



TEST REPORT

Applicant: Romancell Technology Co.,Ltd.

Address: 4F-1, No.842, Ching-Guo Rd., Taoyuan City, Taoyuan County 330, Taiwan

FCC ID: 2AHY2US4G-65 Product Name: Complete 5 Bands Cellphone Signal Booster

Standard(s): 47 CFR Part 20.21 ANSI C63.26-2015 KDB 935210 D03 Signal Booster Measurements v04r04

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230310695-00	Original Report	2024/3/27

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General:

Product Name:	Complete 5 Bands Cellphone Signal Booster	
Equipment Type:	Wideband Consumer Signal (Fixed)	
EUT Model:	US4G-65	
Rated Input Voltage:	DC 5V from adapter	
Serial Number:	22X8_1	
EUT Received Date:	2023/03/15	
EUT Received Status:	Good	

1.1.2 Operation Frequency:

Bands	Uplink Frequency (MHz)	Downlink Frequency (MHz)
Lower 700	698-716	728-746
Upper 700	776-787	746-757
Cellular	824-849	869-894
AWS-1	1710-1755	2110-2155
PCS	1850-1915	1930-1995

1.1.3 Antenna Kitting Information

EUT has multiple sets antenna kitting for marketing, the antenna gain for varied band were listed in user manual, fulfill the requirement of FCC Part 20.21(e)(8)(i)(G), more detail information please refer to the user manuals.

Outdoor Antenna:

	Frequency	Antenna Gain (dBi)	Cable Loss (dB)
Bands	(MHz)	LPA-F78	CL06-33F1F1-06 (Default)
Lower 700	698-716	7.42	1.55
Upper 700	776-787	7.45	1.59
Cellular	824-849	7.72	1.63
AWS-1	1710-1755	6.35	2.91
PCS	1850-1915	7.47	3.05

Indoor Antenna:

Frequency		Antenna Gain (dBi)	Cable Loss (dB)	
Bands	(MHz)	PA-F45	CL06-17F1F1-06 (Default)	CL06-11F1F1-06 (Optional)
Lower 700	728-746	4.81	0.64	0.38
Upper 700	746-757	3.90	0.66	0.39
Cellular	869-894	5.81	0.69	0.41
AWS-1	2110-2155	7.35	1.47	1.10
PCS	1930-1995	7.13	1.51	1.15

Note: CL06-11F1F1-06 is only used as an extension cable and is not used solely for antenna connection

1.1.4 Accessory Information:

Accessory Description	Manufacturer	Model	Parameters
Adapter	I.T.E. Power Supply	RH-050200US	Input: AC 100-240V~50/60Hz 0.4A Output: DC 5V==2A

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

EUT Operation Mode:	The system was configured for testing in a test mode which has been done in the factory.
Equipment Modifications:	No
EUT Exercise Software:	No

1.2.2 Support Equipment List and Details

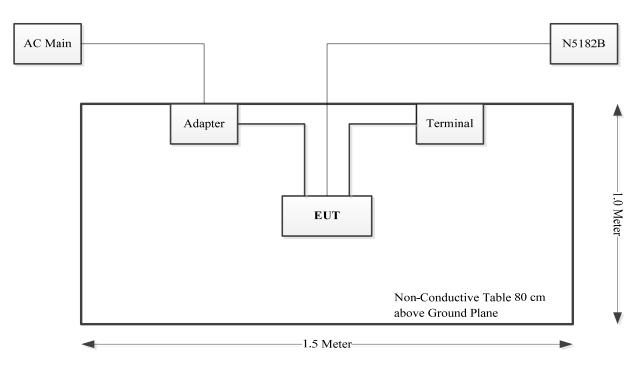
Manufacturer	Description	Model	Serial Number
Agilent	MXG Vector Signal Generator	N5182B	MY51350144
BEW	Coaxial Termination	TF300-6-B	213311

1.2.3 Support Cable List and Details

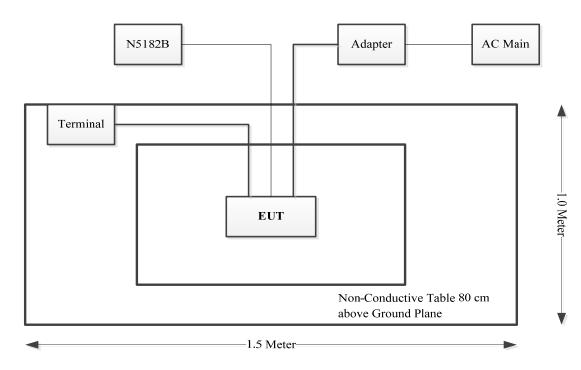
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
Coaxial Cable	Yes	No	1.5	N5182B	EUT
Coaxial Cable	Yes	No	1.5	EUT	Coaxial Termination

1.2.4 Radiated Spurious Emissions Block Diagram of Test Setup

Below 1GHz



Above 1GHz



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±0.61dB
Unwanted Emissions, radiated	30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Unwanted Emissions, conducted	±1.26 dB
Temperature	±1°C
Humidity	$\pm 5\%$
DC and low frequency voltages	±0.4%
Duty Cycle	1%
RF Frequency	$\pm 0.082 \times 10^{-6}$

2. SUMMARY OF TEST RESULTS

S/N	FCC Rules	Description of Test	Results
1	§20.21(e)(3)	3.1 Authorized Frequency Band Verification	Compliant
2	<pre>§ 20.21(e)(8)(i)(D) § 20.21(e)(8)(i)(B) §20.21(e)(4)</pre>	3.2 Maximum Power Measurement	Compliant
3	<pre>§ 20.21(e)(8)(i)(C)(2)(i) § 20.21(e)(8)(i)(B) §20.21(e)(4)</pre>	3.3 Maximum Booster Gain Computation	Compliant
4	§ 20.21(e)(8)(i)(F)	3.4 Intermodulation Product	Compliant
5	§ 20.21(e)(8)(i)(E)	3.5 Out Of Band Emissions	Compliant
6	§2.1051	3.6 Spurious Emissions At Antenna Terminals	Compliant
7	<pre>§ 20.21(e)(8)(i)(A)(1)(i) § 20.21(e)(8)(i)(H) §20.21(e)(4)</pre>	3.7 Noise Limits	Compliant
8	§ 20.21(e)(8)(i)(I) §20.21(e)(4)	3.8 Uplink Inactivity	Compliant
9	§ 20.21(e)(8)(i)(C)(1) § 20.21(e)(8)(i)(H)	3.9 Variable Booster Gain	Compliant
10	§ 2.1049	3.10 Occupied Bandwidth	Compliant
11	§ 20.21(e)(8)(ii)(A) §20.21(e)(5)	3.11 Oscillation Detection	Compliant
12	§2.1053	3.12 Radiated Spurious Emissions	Compliant
13	§ 20.21(e)(8)(i)(B) § 20.21(e)(3)	3.13 Spectrum block filtering test procedure	Not applicable

Note:

Not applicable: This item only for wideband consumer boosters using spectrum block filtering.

3. REQUIREMENTS AND TEST PROCEDURES

3.1 Authorized Frequency Band Verification

3.1.1 Applicable Standard

According to§ 20.21(e)(3) Frequency Bands.

This test is intended to confirm that the signal booster only operates on the CMRS frequency bands authorized for use by the NPS. In other words, the signal booster shall reject amplification of other signals outside of its passband. In addition, this test will identify the frequency at which the maximum gain is realized within each CMRS operational band, which then serves as a basis for subsequent tests.

3.1.2 Test Procedure

- a) Connect the EUT to the test equipment as shown in **Figure 1**. Begin with the uplink output (donor) port connected to the spectrum analyzer.
- b) Set the spectrum analyzer resolution bandwidth (RBW) for 100 kHz with the video bandwidth (VBW) \geq 3 the RBW, using a PEAK detector with the MAX HOLD function.
- c) Set the center frequency of the spectrum analyzer to the center of the operational band under test with a span of 1 MHz.
- d) Set the signal generator for CW mode and tune to the center frequency of the operational band under test.
- e) Set the initial signal generator power to a level that is at least 6 dB below the AGC level specified by the manufacturer.
- f) Slowly increase the signal generator power level until the output signal reaches the AGC operational level.
- g) Reduce the signal generator power to a level that is 3 dB below the level noted above, then manually reset the EUT (e.g., cycle ac/dc power).
- h) Reset the spectrum analyzer span to 2 the width of the CMRS band under test. Adjust the tuned frequency of the signal generator to sweep 2 the width of the CMRS band using the sweep function. The AGC must be deactivated throughout the entire sweep.
- i) Using three markers, identify the CMRS band edges and the frequency with the highest power. Affirm that the values of all markers are visible on the display of the spectrum analyzer (e.g., marker table set to on).
- j) Capture the spectrum analyzer trace for inclusion in the test report.
- k) Repeat 7.1c) to 7.1j) for all operational uplink and downlink bands.

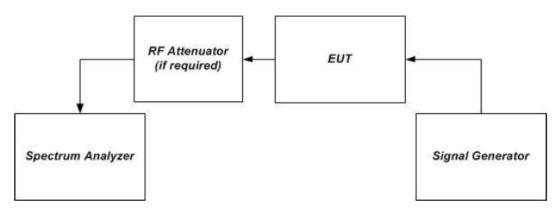


Figure 1 - Band verification test instrumentation setup

3.2 Maximum Power Measurement

3.2.1 Applicable Standard

According to \$20.21(e)(8)(i)(D) *Power Limits*; \$20.21(e)(8)(i)(B) *Bidirectional Capability* (uplink minimum conducted power output); \$20.21(e)(4) *Self-monitoring*.

This procedure shall be used to demonstrate compliance to the signal booster power limits and requirements as specified in Sections 20.21(e)(8)(i)(D) and 20.21(e)(8)(i)(B) for wideband consumer signal boosters.

- a) Compliance to applicable EIRP limits must be shown using the highest gains from the list of antennas, cabling, and coupling devices declared by the manufacturer for use with the consumer booster.
- b) In addition, the maximum power levels measured in this procedure will be used in calculating the maximum gain as described in the next subclause.
- c) The frequency with the highest power level in each operational band as determined in 7.1 is to be measured discretely by applying the following procedure using the stated emission and power detector types independently.
- d) Use a signal generator to create a pulsed CW or GSM signal with a pulse width of 570 μs and a duty cycle of 12.5% (i.e., one GSM timeslot), then measure using the burst power function of the measuring instrument.
- e) Use a signal generator to create an AWGN signal with a 99% occupied bandwidth (OBW) of 4.1 MHz, then measure using the channel power or band power function of the measuring instrumentation.
- f) All modes of operation must be verified to maintain operation within applicable limits at the maximum uplink and downlink test levels per device type as defined in 5.5, by increasing the power level in 2 dB steps from the AGC level to the maximum input level specified in 5.5.

3.2.2 Test Procedure

- a) Connect the EUT to the test equipment as shown in **Figure 1**. Begin with the uplink output (donor) port connected to the spectrum analyzer.
- b) Configure the signal generator and spectrum analyzer for operation on the frequency determined in 7.1 with the highest power level, but with the center frequency of the signal no closer than 2.5 MHz from the band edge. The spectrum analyzer span shall be set to at least 10 MHz.
- c) Set the initial signal generator power to a level well below that which causes AGC activation.
- d) Slowly increase the signal generator power level until the output signal reaches the AGC operational limit (from observation of signal behavior on the spectrum analyzer; i.e., no further increase in output power as input power is increased).
- e) Reduce power sufficiently on the signal generator to ensure that the AGC is not controlling the power output.
- f) Slowly increase the signal generator power to a level just below (and within 0.5 dB of) the AGC limit without triggering the AGC. Note the signal generator power level as Pin.
- g) Measure the output power, Pout, with the spectrum analyzer as follows.
 - 1) Set RBW = 100 kHz for AWGN signal type, or 300 kHz for CW or GSM signal type.
 - 2) Set VBW \geq 3*RBW.
 - 3) Select either the BURST POWER or CHANNEL POWER measurement mode, as required for each signal type. For AWGN, the channel power integration bandwidth shall be the 99% OBW of the 4.1 MHz signal.
 - 4) Select the power averaging (rms) detector.
 - 5) Affirm that the number of measurement points per sweep $\geq (2^{\text{span}})/\text{RBW}$.
 - NOTE-This requirement does not apply for BURST power measurement mode.
 - 6) Set sweep time = auto couple, or as necessary (but no less than auto couple value).
 - 7) Trace average at least 100 traces in power averaging (i.e., rms) mode.
 - 8) Record the measured power level Pout, with one set of results for the GSM or CW input stimulus, and another set of results for the AWGN input stimulus.
- h) Repeat step g) while increasing the signal generator amplitude in 2 dB steps until the maximum input level indicated in 5.5 is reached. If the booster has shut down at any point during the input power steps, it should be noted and step g) shall be repeated at an input level 1 dB less than that found to cause the shutdown. The test report shall include either a statement describing that the device complies at 10 dB above AGC or at the 5.5 power levels, or a table showing compliance at the additional input power(s) required.
- i) Repeat the entire procedure for each operational uplink and downlink frequency band supported by the booster.

j) Provide tabulated results in the test report.

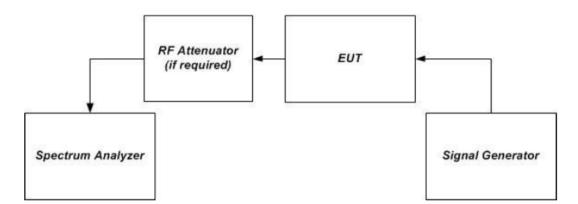


Figure 1 - Band verification test instrumentation setup

3.3 Maximum Booster Gain Computation

3.3.1 Applicable Standard

According to § 20.21(e)(8)(i)(C)(2) *Booster Gain Limits* (maximum gain); § 20.21(e)(8)(i)(B) *Bidirectional Capability* (equivalent uplink and downlink gain); §20.21(e)(4) *Self-monitoring*.

This subclause provides guidance for the calculation of the maximum gain, based on the results obtained from the 7.1 and 7.2 measurements. The NPS limits on maximum gain for fixed and mobile wideband consumer signal boosters are provided in Section 20.21(e)(8)(i)(C)(2). Additionally, Section 20.21(e)(8)(i)(B) requires that wideband consumer signal boosters be able to provide equivalent uplink and downlink gain, i.e., within 9 dB.

3.3.2 Test Procedure

- a) Calculate the maximum gain of the booster as follows to demonstrate compliance to the applicable gain limits as specified.
- b) For both the uplink and downlink in each supported frequency band, use each of the P_{OUT} and P_{IN} result pairs for all signal types used in 7.2 in the following equation to obtain the maximum gain, G: G (dB) = $P_{OUT}(dBm) - P_{IN}(dBm)$.
- c) Record the maximum gain of the uplink and downlink paths for each supported frequency band, and verify that the each gain value complies with the applicable limit.
- d) Provide tabulated results in the test report.

3.4 Intermodulation Product

3.4.1 Applicable Standard

According to§ 20.21(e)(8)(i)(F) Intermodulation Limits.

3.4.2 Test Procedure

The following procedures shall be used to demonstrate compliance to the intermodulation limit specified in Section 20.21(e)(8)(i)(F) for wideband consumer signal boosters.

- a) Connect the signal booster to the test equipment as shown in **Figure 2**. Begin with the uplink output (donor) port connected to the spectrum analyzer.
- b) Set the spectrum analyzer RBW = 3 kHz.
- c) Set the VBW \geq 3*RBW.
- d) Select the rms detector.
- e) Set the spectrum analyzer center frequency to the center of the supported operational band under test.
- f) Set the span to 5 MHz. Affirm that the number of measurement points per sweep $\geq (2 \times \text{span})/\text{RBW}$.
- g) Configure the two signal generators for CW operation with generator #1 tuned 300 kHz below the operational band center frequency and generator #2 tuned 300 kHz above the operational band center frequency. If the maximum output power is not at the operational-band (booster pass band) center frequency, configure the test signal pair around the frequency with maximum output power as determined per 7.2.
- h) Set the signal generator amplitudes so that the power from each into the EUT is equivalent, then turn on the RF output.
- i) Simultaneously increase each signal generators' amplitude equally until just before the EUT begins AGC, then affirm that all intermodulation-product emissions (if any occur) are below the specified limit of -19 dBm.
- j) Use the trace averaging function of the spectrum analyzer, and wait for the trace to stabilize. Place a marker at the highest amplitude intermodulation-product emission.
- k) Record the maximum intermodulation product amplitude level that is observed.
- 1) Capture the spectrum analyzer trace for inclusion in the test report.
- m) Repeat 7.4e) to 7.4l) for all uplink and downlink operational bands.

NOTE–If using a single signal generator with dual outputs, affirm that intermodulation products are not the result of the generator.

n) Increase the signal generator amplitude in 2 dB steps to 10 dB above the AGC threshold determined in 7.4i), but not exceeding the maximum input level of 5.5, to affirm that the EUT maintains compliance with the intermodulation limit. The test report shall include either a statement describing that the device complies at 10 dB above AGC or at the 5.5 power levels, or a table showing compliance at the additional input power(s) required.

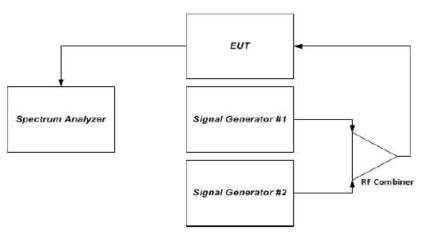


Figure 2 – Intermodulation product instrumentation test setup

3.5 Out Of Band Emissions

3.5.1 Applicable Standard

According to§ 20.21(e)(8)(i)(E) Out of Band Emission Limits.

3.5.2 Test Procedure

This measurement is intended to demonstrate compliance to the limit specified in Section 20.21(e)(8)(i)(E). The mobile-station emission limit is listed in Appendix A for each applicable operating band and rule part.

- a) Connect the EUT to the test equipment as shown in **Figure 1**. Begin with the uplink output (donor) port connected to the spectrum analyzer.
- b) Configure the signal generator for the appropriate operation for all uplink and downlink bands:
 - 1) GSM: 0.2 MHz from upper and lower band edges.
 - 2) LTE (5 MHz): 2.5 MHz from upper and lower band edges.
 - 3) CDMA: 1.25 MHz from upper and lower band edges, except for cellular band as follows (only the upper and lower frequencies need to be tested):

824.88 MHz, 845.73 MHz, 836.52 MHz, 848.10 MHz,

869.88 MHz, 890.73 MHz, 881.52 MHz, 893.10 MHz.

NOTE 1-Alternative test modulation types:

• CDMA (alternative 1.25 MHz AWGN)

• LTE 5 MHz (alternative W-CDMA or 4.1 MHz AWGN)

NOTE 2–For LTE, the signal generator should use the uplink and downlink signal types for these modulations in uplink and downlink tests, respectively. LTE shall use 5 MHz signal, 25 resource blocks transmitting.

NOTE 3–When using an AWGN test signal, the bandwidth shall be the measured 99% OBW.

- c) Set the signal generator amplitude to the maximum power level prior to AGC similar to 7.2.2e) to 7.2.2f) of the power measurement procedures for the appropriate modulations.
- d) Set RBW = measurement bandwidth specified in the applicable rule section for the supported frequency band (see Appendix A for cross-reference to applicable rule section).

NOTE 3–Within 300 kHz and 3 MHz away from band edge, if smaller RBW is used (i.e., RBW < 100 kHz or 1 MHz, for above and below 1 GHz, respectively), per Parts 24 and 27 the smaller RBW is applicable only for frequencies within 100 kHz or 1 MHz (for above and below 1 GHz, respectively) away from the band edge. e) Set VBW = 3* RBW.

- f) Select the power averaging (rms) detector.
- g) Sweep time = auto-couple.
- h) Set the analyzer start frequency to the upper band/block edge frequency and the stop frequency to the upper band/block edge frequency plus: 300 kHz (when operational frequency is < 1 GHz), or 3 MHz (when operational frequency is ≥ 1 GHz).
- i) Trace average at least 100 traces in power averaging (i.e., rms) mode.
- j) Use peak marker function to find the maximum power level.
- k) Capture the spectrum analyzer trace of the power level for inclusion in the test report.
- Increase the signal generator amplitude in 2 dB steps until the maximum input level per 5.5 is reached. Affirm that the EUT maintains compliance with the OOBE limits. The test report shall include either a statement describing that the device complies at 10 dB above AGC or at the 5.5 power levels, or a table showing compliance at the additional input power(s) required.
- m) Reset the analyzer start frequency to the lower band/block edge frequency minus: 300 kHz (when operational frequency is < 1 GHz), or 3 MHz (when operational frequency is ≥ 1 GHz), and the stop frequency to the lower band/block edge frequency, then repeat 7.5i) to 7.5l).
- n) Repeat 7.5b) through 7.5m) for each uplink and downlink operational band.

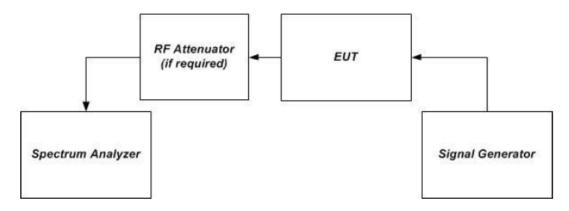


Figure 1 - Band verification test instrumentation setup

3.6 Spurious Emissions at Antenna Terminals

3.6.1 Applicable Standard

According to §2.1051 Measurements required: Spurious emissions at antenna terminals.

§20.21(e)(8)(i)(E): Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for the supported bands of operation. Compliance to OOBE limits will utilize high peak-to-average CMRS signal types.

22.917 (a) 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 $43 + 10 \log(P) dB$.

24.238 (a) 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 $43 + 10 \log(P) dB$.

27.53: the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P) dB$;

3.6.2 Test Procedure

The following procedures shall be used to demonstrate compliance to the applicable conducted spurious emissions limits as per Section 2.1051.

NOTE–For frequencies below 1 GHz, an RBW of 1 MHz may be used in a preliminary measurement. If noncompliant emissions are detected, a final measurement shall be made with a 100 kHz RBW. Additionally, a peak detector may also be used for the preliminary measurement. If non-compliant emissions are detected then a final measurement of these emissions shall be made with the power averaging (rms) detector.

- a) Connect the EUT to the test equipment as shown in **Figure 1**. Begin with the uplink output (donor) port connected to the spectrum analyzer.
- b) Configure the signal generator for AWGN with a 99% OBW of 4.1 MHz, with a center frequency corresponding to the center of the CMRS band under test.
- c) Set the signal generator amplitude to the level determined in the power measurement procedure in 7.2.
- d) Turn on the signal generator RF output and measure the spurious emission power levels with an appropriate measuring instrument as follows.
 - Set RBW = measurement bandwidth specified in the applicable rule section for the operational frequency band under consideration (see Appendix A for relevant cross-references). Note that many of the individual rule sections permit the use of a narrower RBW [typically ≥ 1% of the emission bandwidth (EBW)] to enhance measurement accuracy, but the result must then be integrated over the specified measurement bandwidth.
 - 2) Set VBW = 3* RBW.
 - 3) Select the power averaging (rms) detector. (See above note regarding the use of a peak detector for preliminary measurements.)
 - 4) Sweep time = auto-couple.
 - 5) Set the analyzer start frequency to the lowest radio frequency signal generated in the equipment, without going below 9 kHz, and the stop frequency to the lower band/block edge frequency minus 100 kHz or 1 MHz, as specified in the applicable rule part. Note that the number of measurement points in each sweep must be $\geq (2 \text{ span/RBW})$, which may require that the measurement range defined by the preceding start and stop frequencies be subdivided, depending on the available number of measurement points of the spectrum analyzer. Trace average at least 10 traces in power averaging (i.e., rms) mode.
 - 6) Sweep time = auto-couple.
 - 7) Use the peak marker function to identify the highest amplitude level over each measured frequency range. Record the frequency and amplitude and capture a plot for inclusion in the test report.

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- 8) Reset the analyzer start frequency to the upper band/block edge frequency plus 100 kHz or 1 MHz, as specified in the applicable rule part, and the analyzer stop frequency to 10 times the highest frequency of the fundamental emission. Note that the number of measurement points in each sweep must be ≥ (2*span/RBW) which may require that the measurement range defined by the start and stop frequencies above be subdivided, depending on the available number of measurement points provided by the spectrum analyzer.
- 9) Use the peak marker function to identify the highest amplitude level over each of the measured frequency ranges. Record the frequency and amplitude and capture a plot for inclusion in the test report.
- e) Repeat 7.6b) through 7.6d) for each supported frequency band of operation.

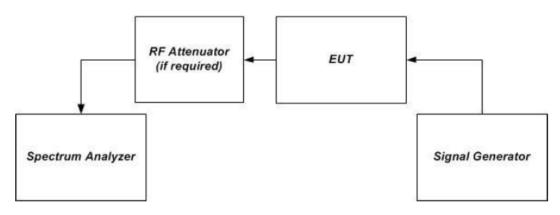


Figure 1 – Band verification test instrumentation setup

3.7 Noise Limits

3.7.1 Applicable Standard

According to § 20.21(e)(8)(i)(A) *Noise Limits*; § 20.21(e)(8)(i)(H) *Transmit Power Off Mode* (uplink and downlink noise power); §20.21(e)(4) *Self-monitoring*.

3.7.2 Test Procedure

Maximum transmitter noise power level

- a) Connect the EUT to the test equipment as shown in **Figure 3**. Begin with the uplink output (donor) port connected to the spectrum analyzer. When measuring downlink noise, connect the downlink output (server) port to the spectrum analyzer.
- b) Set the spectrum analyzer RBW to 1 MHz with the VBW \ge 3 *RBW.
- c) Select the power averaging (rms) detector and trace average over at least 100 traces.
- d) Set the center frequency of the spectrum analyzer to the center of the CMRS band under test with the span ≥ 2 the CMRS band.
- e) Measure the maximum transmitter noise power level.
- f) Save the spectrum analyzer plot as necessary for inclusion in the final test report.
- g) Repeat 7.7b) to 7.7f) for all operational uplink and downlink bands.
- h) Connect the EUT to the test equipment as shown in Figure 4 for uplink noise power measurement in the presence a downlink signal. Affirm the coupled path of the RF coupler is connected to the spectrum analyzer.
- i) Configure the signal generator for AWGN operation with a 99% OBW of 4.1 MHz.
- j) Set the spectrum analyzer RBW for 1 MHz, VBW ≥ 3*RBW, with a power averaging (rms) detector with at least 100 trace averages.
- k) Set the center frequency of the spectrum analyzer to the center of the CMRS band under test, with the span ≥ 2*the CMRS band. This shall include all spectrum blocks in the particular CMRS band under test (see Appendix A).
- 1) For uplink noise measurements, set the spectrum analyzer center frequency for the uplink band under test, and tune the signal generator to the center of the paired downlink band.
- m) Measure the maximum transmitter noise power level while varying the downlink signal generator output level from -90 dBm to -20 dBm, as measured at the input port (i.e., downlink signal level at the booster donor port node of Figure 4), in 1 dB steps inside the RSSI-dependent region, and in 10 dB steps outside the RSSI-dependent region. Report the six values closest to the limit, with at least two points within the RSSI-dependent region of the limit. See Appendix D for noise limits graphs.
- n) Repeat 7.7.1h) through 7.7.1m) for all operational uplink bands.

NOTE–Some signal boosters will require a signal generator input because they will not operate unless a signal is received at the input terminals. If this is the case, for the setups shown in Figure 3 and Figure 4 connect a second signal generator at the server port, then cycle the RF output of the second signal generator to simulate this function.

NOTE-Some signal boosters have a maximum transmitter noise power level that is less than the Transmit Power Off Mode of -70 dBm. For these boosters it is still necessary to confirm that the uplink noise power limits are met in the presence of a downlink signal. Test reports should show measurement data demonstrating compliance. Alternatively the applicant may provide attestation with detailed design information and explanation justifying the omission of the variable uplink testing.

Variable uplink noise timing

Variable uplink noise timing is to be measured as follows, using the test setup shown in Figure 4.

- a) Set the spectrum analyzer to the uplink frequency to be measured.
- b) Set the span to 0 Hz, with a sweep time of 10 seconds.
- c) Set the power level of signal generator to the lowest level of the RSSI-dependent noise [see 7.7.1m)].
- d) Select MAX HOLD and increase the power level of signal generator by 10 dB for mobile boosters, and 20 dB for fixed boosters.
- e) Confirm that the uplink noise decreases to the specified level within 1 second for mobile devices, and within 3 seconds for fixed devices.18
- f) Repeat 7.7.2a) to 7.7.2e) for all operational uplink bands.
- g) Include plots and summary table in test report.

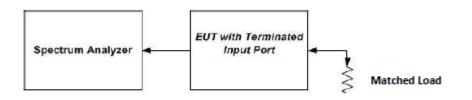


Figure 3 - Noise limit test setup (also used for 7.8)

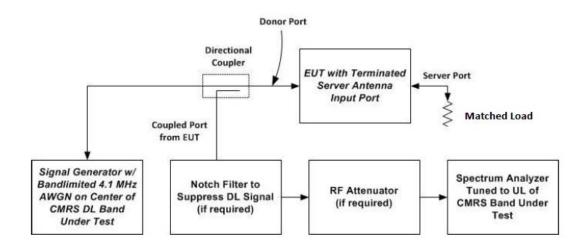


Figure 4 – Test setup for uplink noise power measurement in the presence of a downlink signal

3.8 Uplink Inactivity

3.8.1 Applicable Standard

According to § 20.21(e)(8)(i)(I) Uplink Inactivity&§20.21(e)(4); §20.21(e)(4) Self-monitoring.

3.8.2 Test Procedure

This measurement procedure is intended to demonstrate compliance to the uplink inactivity requirements specified for wideband consumer signal boosters in Section 20.21(e)(8)(i)(I).

a) Connect the EUT to the test equipment as shown in **Figure 3** with the uplink output (donor) port connected to the spectrum analyzer.

NOTE–Some signal boosters will require a signal generator input because they will not operate unless a signal is received at the input terminals. If this is the case for the setup shown in Figure 3 connect a signal generator at the server port, then cycle the RF output of the signal generator to simulate this function.

b) Select the power averaging (rms) detector.

- c) Set the spectrum analyzer RBW for 1 MHz with the VBW \ge 3* RBW.
- d) Set the center frequency of the spectrum analyzer to the center of the uplink operational band.
- e) Set the span for 0 Hz with a single sweep time for a minimum of 330 seconds.
- f) Start to capture a new trace using MAX HOLD.
- g) After approximately 15 seconds, turn on the EUT power.
- h) After the full spectrum analyzer trace is complete, place a MARKER on the leading edge of the pulse, then use the DELTA MARKER METHOD to measure the time until the uplink becomes inactive.
- i) Affirm that the noise level is below the uplink inactivity noise power limit, as specified by the rules.
- j) Capture the plot for inclusion in the test report.
- k) Measure noise using procedures in 7.7.1a) to 7.7.1f).
- 1) Repeat 7.8d) through 7.8k) for all operational uplink bands.

NOTE-Some signal boosters have a maximum transmitter noise power level that is less than the uplink inactivity limit. For these boosters it is still necessary to confirm the uplink activity timing requirement. Test reports should show measurement data demonstrating compliance. Alternatively the applicant may provide attestation with detailed design information and explanation justifying the omission of the uplink inactivity test procedure.

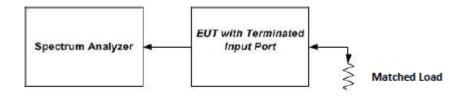


Figure 3 - Noise limit test setup (also used for 7.8)

3.9 Variable Booster Gain

3.9.1 Applicable Standard

According to § 20.21(e)(8)(i)(C)(1) *Booster Gain Limits* (variable gain); § 20.21(e)(8)(i)(H) *Transmit Power Off Mode* (uplink gain).

3.9.2 Test Procedure

Maximum gain

This procedure shall be used to demonstrate compliance to the booster gain limits specified for wideband consumer signal boosters in Section 20.21(e)(8)(i)(C) or Section 20.21(e)(8)(i)(H). The variable booster gain limits are expressed as a function of RSSI and MSCL, and are shown graphically in Appendix D. The RSSI is varied over a range of values as specified within the procedure. Refer to Appendix B of this document for guidance on determining the applicable MSCL value.

- a) Connect the EUT to the test equipment as shown in **Figure 5** with the uplink output (donor) port connected to signal generator #1. Affirm that the coupled path of the RF coupler is connected to the spectrum analyzer.
- b) Configure downlink signal generator #1 for AWGN operation with a 99% OBW of 4.1 MHz, tuned to the center of the operational band.
- c) Set the power level and frequency of signal generator #2 to a value that is 5 dB below the AGC level determined from 7.2. The signal type is AWGN with a 99% OBW of 4.1 MHz.
- d) Set RBW = 100 kHz.
- e) Set VBW \geq 300 kHz.
- f) Select the CHANNEL POWER measurement mode.
- g) Select the power averaging (rms) detector.
- h) Affirm that the number of measurement points per sweep $\geq (2^{*}\text{span})/\text{RBW}$.
- i) Sweep time = auto couple or as necessary (but no less than auto couple value).
- j) Trace average at least 10 traces in power averaging (i.e., rms) mode.
- k) Measure the maximum channel power and compute maximum gain when varying the signal generator #1 output to a level from -90 dBm to -20 dBm, as measured at the input port (i.e., downlink signal level at the booster donor port node of Figure 5), in 1 dB steps inside the RSSI-dependent region, and 10 dB steps outside the RSSI-dependent region. Report the six values closest to the limit, including at least two points from within the RSSI-dependent region of operation. See gain limit in charts in Appendix D for uplink gain requirements. Additionally, document that the EUT provides equivalent uplink and downlink gain, and when operating in shutoff mode that the uplink and downlink gain is within the transmit power off mode gain limits.
- l) Repeat 7.9.1b) to 7.9.1k) for all operational uplink bands.

Variable uplink gain timing

Variable uplink gain timing is to be measured as follows, using the test setup shown in Figure 5.

- a) Set the spectrum analyzer to the uplink frequency to be measured.
- b) Set the span to 0 Hz with a sweep time of 10 seconds.
- c) Set the power level of signal generator #1 to the lowest level of the RSSI-dependent gain [see 7.9.1k)].
- d) Select MAX HOLD and increase the power level of signal generator #1 by 10 dB for mobile boosters, and by 20 dB for fixed indoor boosters. Signal generator #2 remains same, as described in 7.9.1c).
- e) Confirm that the uplink gain decreases to the specified levels, within 1 second for mobile devices, and within 3 seconds for fixed devices.19
- f) Repeat 7.9.2a) to 7.9.2e) for all operational uplink bands.

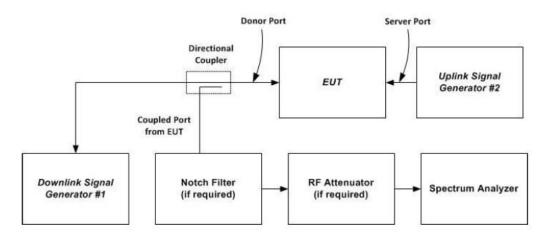


Figure 5 - Variable gain instrumentation test setup

3.10 Occupied Bandwidth

3.10.1 Applicable Standard

According to§ 2.1049 Measurements required: Occupied bandwidth.

3.10.2 Test Procedure

This measurement is required to compare the consistency of the output signal relative to the input signal, and to satisfy the requirements of Section 2.1049.

- a) Connect the test equipment as shown in **Figure 6** to firstly measure the characteristics of the test signals produced by the signal generator.
- b) Set VBW \geq 3*RBW.
- c) Set the center frequency of the spectrum analyzer to the center of the operational band. The span will be adjusted for each modulation type and OBW as necessary for accurately viewing the signals.
- d) Set the signal generator for power level to match the values obtained from the tests of 7.2.
- e) Set the signal generator modulation type for GSM with a PRBS pattern and allow the trace on the signal generator to stabilize adjusting the span as necessary.
- f) Set the spectrum analyzer RBW for 1% to 5% of the EBW.
- g) Capture the spectrum analyzer trace for inclusion in the test report.
- h) Repeat 7.10c) to 7.10g) for CDMA and W-CDMA modulation, adjusting the span as necessary. AWGN or LTE may be used in place of W-CDMA, as an option.
- i) Repeat 7.10c) to 7.10h) for all uplink and downlink operational bands.
- j) Connect the test equipment as shown in Figure 1, with the uplink output (donor) port connected to the spectrum analyzer, and the server port connected to the signal generator.
- k) Repeat 7.10c) to 7.10i) with this EUT uplink path test setup.
- 1) Connect the test equipment as shown in Figure 1, with the downlink output (server) port connected to the spectrum analyzer, and the donor port connected to the signal generator.
- m) Repeat 7.10c) to 7.10i) with this EUT downlink path test setup.

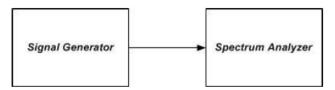


Figure 6 - Test setup for measuring characteristics of test signals

used for subsequent EUT occupied bandwidth testing

3.11 Oscillation Detection

3.11.1 Applicable Standard

According to § 20.21(e)(8)(ii)(A) Anti-Oscillation, §20.21(e)(4) Self-monitoring.

Use of two EUTs is permitted for this measurement, which can greatly reduce the test time required. One EUT shall operate in a normal mode, and the second EUT shall operate in a test mode that is capable of disabling the uplink inactivity function and/or allows a reduction to 5 seconds of the time between restarts.

The procedures in 7.11.3 and 7.11.4 do not apply for devices that operate only as direct-connection mobile boosters having gain of less than or equal to 15 dB.

3.11.2 Test Procedure

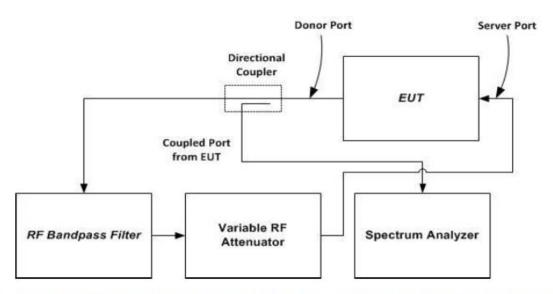
Oscillation restart tests

a) Connect the normal-operating mode EUT to the test equipment as shown in **Figure 7** beginning with the spectrum analyzer on the uplink output (donor) port. Confirm that the RF coupled path is connected to the spectrum analyzer.

NOTE—*The band-pass filter shall provide sufficient out-of-band rejection to prevent oscillations from occurring in bands not under test.*

- b) Spectrum analyzer settings:
 - 1) Center frequency at the center of the band under test
 - 2) Span equal or slightly exceeding the width of the band under test
 - 3) Continuous sweep, max-hold
 - 4) RBW \geq 1 MHz, VBW > 3* RBW
- c) Decrease the variable attenuator until the spectrum analyzer displays a signal within the band under test. Using a marker, identify the approximate center frequency of this signal on the max-hold display, increase the attenuation by 10 dB, then reset the EUT (e.g., cycle ac/dc power).
- d) Repeat 7.11.2c) twice to ensure that the center of the signal created by the booster remains within 250 kHz of the spectrum analyzer display center frequency. If the frequency of the signal is unstable, confirm that the spectrum analyzer display is centered between the frequency extremes observed. If the signal is wider than 1 MHz, ensure that the spectrum analyzer display is centered on the signal by increasing the RBW. Reset the EUT (e.g., cycle ac/dc power) after each oscillation event, if necessary. Set the spectrum analyzer sweep trigger level to just below the peak amplitude of the displayed EUT oscillation signal.
- e) Set the spectrum analyzer to zero-span, with a sweep time of 5 seconds, and single-sweep with max-hold. The spectrum analyzer sweep trigger level in this and the subsequent steps shall be the level identified in 7.11.2d).
- f) Decrease the variable attenuator until the spectrum analyzer sweep is triggered, increase the attenuation by 10 dB, then reset the EUT (e.g., cycle ac/dc power).
- g) Reset the zero-span trigger of the spectrum analyzer, then repeat 7.11.2f) twice to ensure that the spectrum analyzer is reliably triggered, resetting the EUT (e.g., cycle ac/dc power) after each oscillation event if necessary.
- h) Reset the zero-span sweep trigger of the spectrum analyzer, and reset the EUT (e.g., cycle ac/dc power).
- i) Force the EUT into oscillation by reducing the attenuation.
- j) Use the marker function of the spectrum analyzer to measure the time from the onset of oscillation until the EUT turns off, by setting Marker 1 on the leading edge of the oscillation signal and Marker 2 on the trailing edge. The spectrum analyzer sweep time may be adjusted to improve the time resolution of these cursors.
- k) Capture the spectrum analyzer zero-span trace for inclusion in the test report. Report the power level associated with the oscillation separately if it can't be displayed on the trace.
- l) Repeat 7.11.2b) to 7.11.2k) for all operational uplink and downlink bands.
- m) Set the spectrum analyzer zero-span sweep time for longer than 60 seconds, then measure the restart time for each operational uplink and downlink band.
- n) Replace the normal-operating mode EUT with the EUT that supports an anti-oscillation test mode.
- o) Set the spectrum analyzer zero-span time for a minimum of 120 seconds, and a single sweep.
- p) Manually trigger the spectrum analyzer zero-span sweep, and manually force the booster into oscillation as described in 7.11.2i).

- q) When the sweep is complete, place cursors between the first two oscillation detections, and save the plot for inclusion in the test report. The time between restarts must match the manufacturer's timing for the test mode, and there shall be no more than 5 restarts.
- r) Repeat 7.11.2m) to 7.11.2q) for all operational uplink and downlink bands.



NOTE—This figure shows the test setup for uplink bands transmission path tests; i.e., signal flow is out from the donor port into the directional coupler. For downlink bands transmission path tests, the feedback signal flow path direction and equipment connections shall be reversed, i.e., signal flow is out from the server port into the directional coupler, and signal flow is into the donor port from the variable RF attenuator.

Figure 7 - Oscillation detection (7.11.2) test setup

Test procedure for measuring oscillation mitigation or shutdown

- a) Connect the normal-operating mode EUT to the test equipment as shown in Figure 8.
- b) Set the spectrum analyzer center frequency to the center of band under test, and use the following settings: 1) RBW=30 kHz, VBW \ge 3 × RBW,
 - 2) power averaging (rms) detector,
 - 3) trace averages ≥ 100 ,
 - 4) span \geq 120% of operational band under test,
 - 5) number of sweep points $\geq 2 \times \text{Span/RBW}$.

NOTE—To measure 120% of the band under test in one span with spectrum analyzers having less than the required number of sweep points: Perform pretests with span equal to smaller band segments, such that 120% of the operational band is captured in multiple tests, using the setup

parameters specified; record the center frequency of the strongest oscillation level occurring, and affirm this frequency is within the span and band segment used in this test.

- c) Configure the signal generator for AWGN operation with a 99% OBW of 4.1 MHz, tuned to the frequency of 2.5 MHz above the lower edge or below the upper edge of the operating band under test. Adjust the RF output level of the signal generator such that the measured power level of the AWGN signal at the output port of the booster is 30 dB less than the maximum power of the booster for the band under test. Affirm that the input signal is not obstructing the measurement of the strongest oscillation peak in the band, and is not included within the span in the measurement.
 - 1) Boosters with operating spectrum passbands of 10 MHz or less may use a CW signal source at the band edge rather than AWGN.
 - 2) For device passbands greater than 10 MHz, standard CMRS signal sources (i.e., CDMA, W-CDMA, LTE) may be used instead of AWGN at the band edge.
- d) Set the variable attenuator to a high attenuation setting such that the booster will operate at maximum gain when powered on. Reset the EUT (e.g., cycle ac/dc power). Allow the EUT to complete its boot-up process, to reach full operational gain, and to stabilize its operation.

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- e) Set the variable attenuator such that the insertion loss for the center of the band under test (isolation) between the booster donor port and server port is 5 dB greater than the maximum gain, as recorded in the maximum gain test procedure (see 7.3), for the band under test.
- f) Verify the EUT shuts down, i.e., to mitigate the oscillations. If the booster does not shut down, measure and verify the peak oscillation level as follows.
 - 1) Allow the spectrum analyzer trace to stabilize.
 - 2) Place the marker at the highest oscillation level occurring within the span, and record its output level and frequency.
 - 3) Set the spectrum analyzer center frequency to the frequency with the highest oscillation signal level, and reduce the span such that the upper and lower adjacent oscillation peaks are within the span.
 - 4) Use the Minimum Search Marker function to find the lowest output level that is within the span, and within the operational band under test, and record its output level and frequency.
 - 5) Affirm that the peak oscillation level measured in 7.11.3f2), does not exceed by 12.0 dB the minimal output level measured in 7.11.3f)4). Record the measurement results of 7.11.3f2) and 7.11.3f4) in tabular format for inclusion in the test report.
 - 6) The procedure of 7.11.3f1) to 7.11.3.f5) allows the spectrum analyzer trace to stabilize, and verification of shutdown or oscillation level measurement must occur within 300 seconds.20
- g) Decrease the variable attenuator in 1 dB steps, and repeat step 7.11.3f) for each 1 dB step. Continue testing to the level when the insertion loss for the center of band under test (isolation) between the booster donor port and server port is 5 dB lower than the maximum gain (see 7.3).
- h) Repeat 7.11.3a) to 7.11.3g) for all operational uplink and downlink bands.

3.12 Radiated Spurious Emissions

3.12.1 Applicable Standard

According to § 2.1053 Measurements required: Field strength of spurious radiation.

3.12.2 Test Procedure

This procedure is intended to satisfy the requirements specified in Section 2.1053. The applicable limits are those specified for mobile station emissions in the rule part appropriate to the band of operation (see Appendix A).

Separate compliance requirements are applicable for any digital device circuitry that controls additional functions or capabilities and that is not used only to enable operation of the transmitter in a booster device [i.e., Section 15.3(k) digital device definition]. Separate compliance requirements are applicable for any receiver components/functions that tune within 30 MHz to 960 MHz contained in booster devices [Section 15.101(b)].

- a) Place the EUT on an OATS or semi-anechoic chamber turntable 3 m from the receiving antenna.
- b) Connect the EUT to the test equipment as shown in **Figure 10** beginning with the uplink output (donor) port. c) Set the signal generator to produce a CW signal with the frequency set to the center of the operational band
- under test, and the power level set at PIN as determined from measurement results per 7.2.
- d) Measure the radiated spurious emissions from the EUT from the lowest to the highest frequencies as specified in Section 2.1057. Maximize the radiated emissions by using the procedures described in ANSI C63.26.
- e) Capture the peak emissions plots using a peak detector with Max-Hold for inclusion in the test report. Tabular data is acceptable in lieu of spectrum analyzer plots.
- f) Repeat 7.12c) through 7.12e) for all uplink and downlink operational bands.

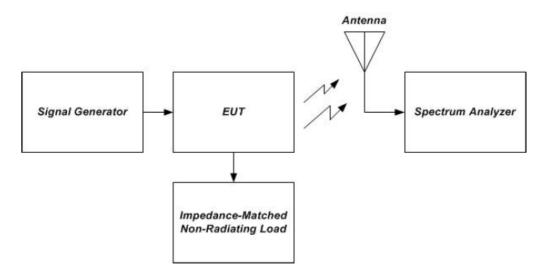


Figure 10 - Radiated spurious emissions test instrumentation setup

4. TEST DATA AND RESULTS

4.1 Authorized Frequency Band Verification:

Serial Number:	22X8_1	Test Date:	2023/4/14, 2024/1/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen, Morpheus Shi	Test Result:	Pass

Environmental Conditions:

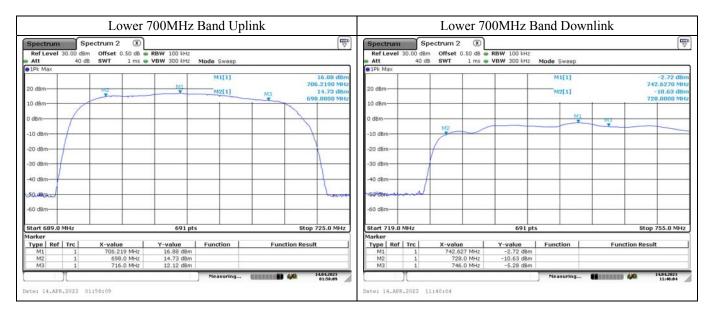
Temperature: (°C) 21.3~28.3	Relative Humidity: 38~4 (%)	~45 ATM Pressure: (kPa)	100.2~101.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14	
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30	
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A	
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A	
Agilent	Agilent MXG Vector Signal Generator		MY51350144	2022/4/22	2023/4/21	
Agilent	MXG Vector		MY51350144	2023/3/31	2024/3/30	

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:



Upper 700MHz Band Uplink	Upper 700MHz Band Downlink
Spectrum Spectrum 2 🛞	Spectrum 🕎
Ref Level 30.00 dbm Offset 0.50 db ■ RBW 100 kHz ● Att 40 db SWT 1 ms ■ VBW 300 kHz Mode Sweep ● IPk Max ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■	RefLevel 30.50 dBm Offset 0.50 dB ● RBW 100 kHz Att 40 dB SWT 1 ms ● VBW 300 kHz Mode Sweep ● IPk Max
M3[1] 13.53 dBm	M1[1] -5.32 dBm 750.3540 MHz
20 dBm M2 m1 M3 17.94 dBm 10 dBm 782.7190.5[147	20 dBm M2[1] -6.26 dBm 746.0000 MHz
0 dBm-	10 dBm-
-10 dBm	-10 dBm
-20 d8m	-20 dBm
-30 dBm	-30 dBm-
-40 d8m-	-40 dBm
-50 dBm	-50 dBm
-60 dBm-	-60 dBm-
Start 770.5 MHz 691 pts Stop 792.5 MHz Marker	Start 740.5 MHz 691 pts Stop 762.5 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 782.71 MHz 17.94 dBm 17.94 dBm 17.94 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 750.354 MHz -5.32 dBm -5.32 dBm -5.32 dBm
M2 1 776.0 MHz 17.34 dBm M3 1 787.0 MHz 13.53 dBm	M2 1 746.0 MHz -6.26 dBm M3 1 757.0 MHz -10.71 dBm
Measuring Measuring	Date: 20.APP.2023 01:49:53
Cellular Band Uplink	Cellular Band Downlink
Ref Level 30.00 dBm Offset 0.50 dB RBW 100 kHz	Spectrum Spectrum 2 (3)
Att 40 dB SWT 1.1 ms VBW 300 kHz Mode Sweep F/K Max	Ref Level 30.00 dBm Offset 0.50 dB RBW 100 kHz Att 40 dB SWT 1.1 ms VBW 300 kHz Mode Sweep
20 dBm M1 M1[1] 18.06 dBm 828.0340 MHz 15.74 dBm M2[1] M3 15.74 dBm	
20 dem M2[1] M3 15.74 dBm 10 dBm 824.0000 MHz	20 dBm M2[1] -5.66 dBm 869.0000 MHz
0 dBm	10 dBm-
-10 dBm	-10 dBm
-20 dBm-	-20 dBm
-30 dBm-	-30 dBm
-40 dBm	-40 dBm
-60 d8m	teo tem
	-60 dBm-
Start 811.5 MHz 691 pts Stop 861.5 MHz Marker	Start 856.5 MHz 691 pts Stop 906.5 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 828.034 MHz 18.06 dbm 18.06 dbm 18.02 dbm M2 1 824.0 MHz 15.74 dbm 15.74 dbm 15.74 dbm	Type Ref Trc X-value Y-value Function Function Result M1 1 876.58 MHz -3.26 dBm -3.26 dBm -3.26 dBm
M3 1 849.0 MHz 13.38 dBm	M2 1 969.0 MHz -5.66 dBm M3 1 894.0 MHz -7.36 dBm
ProjectNo.:CR230310695-HF Tester:Morpheus Shi	Date: 14.AFF.2023 11:48:19
Date: 20.JAN.2024 05:27:37	ANALY ATAMONOUS LATURAL
AWS-1 Band Uplink	AWS-1 Band Downlink
Spectrum Spectrum 2 🛞	Spectrum Spectrum 2 🛞
Ref Level 30.00 dBm Offset 0.50 dB RBW 100 kHz Att 40 dB SWT 1.1 ms VBW 300 kHz Mode Sweep	RefLevel 30.00 dBm Offset 0.50 dB RBW 100 kHz Att 40 dB SWT 1.1 ms VBW 300 kHz Mode Sweep
●1Pk Max M1 M1[1] M3 20.63 dBm 1.726640 GHz	
20 dBm M2 M2[1] 14,67 dBm 1.71000(TSHz	20 dBm M1[1] -1.20 dBm 2.126510 GHz
10 dBm	10 dBm- 0 dBm- 10 dBm-
-10 dBm	-10 dBm
-20 d8m	-20 dBm-
-30 dBm	-30 dBm
-40 d8m	-40 dBm
*394 08fm ⁴	1353 88m
-60 dBm-	-60 dBm-
Start 1.6875 GHz 691 pts Stop 1.7775 GHz Marker	Start 2.0875 GHz 691 pts Stop 2.1775 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 1.72664 GHz 20.63 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 2.12651 GHz -1.20 dBm -1.20 dB
M2 1 1.71 GHz 14.67 dBm M3 1 1.755 GHz 20.41 dBm Massuring Massuring 449 140-2923	M2 1 2.11 GHz -2.58 dBm M3 1 2.155 GHz -4.57 dBm
Neasuring 1146-1223	Neasuring 1445129
	Prove Person Contract, and and

PCS Band Uplink					PCS Band Downlink											
Spectrum	Sp	ectrum 2	×					Spectru	n Sp	ectrum 2	×					E
Ref Level	30.00 dBm		dB . RBW 100 kHz					Ref Leve	1 30.00 dBm	Offset 0.	.50 dB 🖷	RBW 100 kHz				
Att	40 dB	SWT 1.3	ms 💿 VBW 300 kHz	Mode Sweep				Att	40 dB	SWT 1	1.3 ms 🖷	VBW 300 kHz	Mode Sweep			
1Pk Max								1Pk Max								0.04.40
			MI	M1[1]			20.46 dBm 865570 GHz						M1[1]		1	-3.91 dBn 964380 GH
20 dBm		M2		MZTH			14.44 dBm	20 dBm-		-		+ +	M2[1]			-21.13 dBn
10 dBm-	_	-			M3	1.0	850000 GHz	10 dBm-							1.	930000 GH
as sum	1							AU ODIT								
0 dBm	/				\rightarrow			0 dBm		-		-		MB		
1012	/						1 I	120225-2			-					
-10 dBm-	1							-10 dBm-		1	/					-
-20 dBm								-20 dBm-		M2						
	1							10 0011		/					1	
-30 dBm	1				-	11		-30 dBm-		1		+ +		-	1	-
120223	1							100								
-40 dBm								-40 dBm		1					1	
-50 88m	N.					hanna	- marchanes		udohulutor	1					hun	America
-60 dBm-						-		-60 dBm-				+ +		-		-
						-	· · · · · · · · · · · · · · · · · · ·								-	
Start 1.8175	5 GHz		691 pt	5		Stop 1	.9475 GHz	Start 1.89	75 GHz			691 pt	s		Stop 2	2.0275 GHz
Marker			1	1	-			Marker	e1 = 1							
Type Ref M1	Trc	X-value 1.86557 G	Y-value Hz 20.46 dBm	Function	Fu	nction Resul	t	Type R M1	1 1	X-value 1.9643		-3.91 dBm	Function	Fun	ction Resu	It
M2	1	1.85 G						M2	1		I3 GHz	-21.13 dBm				
M3	1	1.915 G	Hz 8.07 dBm					M3	1	1.99	IS GHz	-6.36 dBm				
	1		1	Measuring.	. CHARMEN	1 4/4	14.04.2023		1			1	Measuring	COMPARED IN COMPANY	4,40	14.04.2023
	.2023 03	Council and the last		-			and the		~	:50:41					A 1 Crini	

4.2 Maximum Power Measurement:

Serial Number:	22X8_1	Test Date:	2023/4/23, 2024/3/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C) 21.	1.3~28.3	Relative Humidity: (%)	38~45	ATM Pressure: (kPa)	100.2~101.9
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Test Equipment List and Details:

Manufacturer	Description	Description Model Serial Number		Calibration Date	Calibration Due Date	
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14	
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30	
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A	
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A	
Agilent	MXG Vector		MY51350144	2023/3/31	2024/3/30	

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

AGC Input Level:

Mode	Operation Band	Signal Type	AGC Input Level (dBm)
	Lower 700MHz	AWGN	-42.60
-	Lower /00MHz	GSM	-42.60
	Unner 700MII.	AWGN	-38.00
	Upper 700MHz	GSM	-38.20
Linlinle	Cellular	AWGN	-37.90
Uplink	Centular	GSM	-37.90
	AWS-1	AWGN	-38.40
	AW 5-1	GSM	-38.50
	PCS	AWGN	-34.70
	PCS	GSM	-34.80
	Lower 700MHz	AWGN	-61.40
	Lower /00MHz	GSM	-61.50
	Unner 700MII.	AWGN	-61.90
	Upper 700MHz	GSM	-62.00
Downlink	Cellular	AWGN	-61.40
Downink	Centular	GSM	-61.50
	AWS-1	AWGN	-61.70
	A W 5-1	GSM	-61.70
	PCS	AWGN	-62.60
	PCS	GSM	-62.70

Maximum Output Power:

Uplink:

Operation Band	Signal Type	Pre AGC Input (dBm)	Maximum Conducted Output Power (dBm)	Conducted Output Power Limit (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Maximum EIRP (dBm)	EIRP Limit (dBm)
Lower	AWGN	-42.80	17.46	≥17	7.42	1.55	23.33	≤30
700MHz	GSM	-42.80	19.53	≥17	7.42	1.55	25.40	≤30
Upper	AWGN	-38.50	17.29	≥17	7.45	1.59	23.15	≤30
700MHz	GSM	-38.70	21.64	≥17	7.45	1.59	27.50	≤30
Cellular	AWGN	-38.00	19.16	≥17	7.72	1.63	25.25	≤30
Cenular	GSM	-38.00	22.71	≥17	7.72	1.63	28.80	≤30
AWS-1	AWGN	-38.50	19.84	≥17	6.35	2.91	23.28	≤30
Aw 5-1	GSM	-38.60	22.65	≥17	6.35	2.91	26.09	≤30
DCS	AWGN	-34.80	18.72	≥17	7.47	3.05	23.14	≤30
PCS	GSM	-34.90	22.39	≥17	7.47	3.05	26.81	≤30
	•	ntenna kitting ion the EIRP r	provided by ma esult.	anufacturer, the	e worst comb	oine of the	antenna gain a	nd cable

Downlink:

Operation Band	Signal Type	Pre AGC Input (dBm)	Maximum Conducted Output Power (dBm)	Conducted Output Power Limit (dBm)	Antenna Gain (dBi)	Cable Loss (dB)	Maximum EIRP (dBm)	EIRP Limit (dBm)
Lower	AWGN	-61.60	-3.07	≤17	4.81	0.38	1.36	≤17
700MHz	GSM	-61.60	0.01	≤17	4.81	0.38	4.44	≤17
Upper	AWGN	-62.00	-4.33	≤17	3.90	0.39	-0.82	≤17
700MHz	GSM	-62.10	-1.83	≤17	3.90	0.39	1.68	≤17
Callular	AWGN	-61.70	-3.72	≤17	5.81	0.41	1.68	≤17
Cellular	GSM	-61.70	-0.51	≤17	5.81	0.41	4.89	≤17
AWS-1	AWGN	-61.80	-2.86	≤17	7.35	1.10	3.39	≤17
	GSM	-61.80	-1.67	≤17	7.35	1.10	4.58	≤17
PCS	AWGN	-62.70	-4.13	≤17	7.13	1.15	1.85	≤17
	GSM	-62.80	-1.04	≤17	7.13	1.15	4.94	≤17
Note: According to the antenna kitting provided by manufacturer, the worst combine of the antenna gain and cable loss was used to calculation the EIRP result.								

Maximum Input Level:

Mode	Operation Band	Signal type	Maximum Input level (dBm)	Limit (dBm)	Conducted Output level (dBm)	Limit (dBm)	Antenna Gain (dBi)	Cable loss dB	EIRP (dBm)	Limit (dBm)
	Lower 700MHz	AWGN	-32.80	27	17.39	>17	7.42	1.55	23.26	17~30
		GSM	-33.00		23.67		7.42	1.55	29.54	
	Upper	AWGN	-28.50		17.16		7.45	1.59	23.02	
	700MHz	GSM	-26.00		23.93		7.45	1.59	29.79	
Uplink	Cellular	AWGN	-27.90		18.37		7.72	1.63	24.46	
Opinik		GSM	-27.90		22.37		7.72	1.63	28.46	
	AWS-1	AWGN	-28.50		19.86		6.35	2.91	23.30	
		GSM	-28.50		24.99		6.35	2.91	28.43	
	PCS	AWGN	-24.80		18.71		7.47	3.05	23.13	
		GSM	-24.80		24.71		7.47	3.05	29.13	
	Lower 700MHz	AWGN	-51.60	-20	-3.11	- /	4.81	0.38	1.32	17
		GSM	-51.60		9.83		4.81	0.38	14.26	
	Upper 700MHz	AWGN	-51.90		-4.38		3.9	0.39	-0.87	
		GSM	-51.90		8.02		3.9	0.39	11.53	
Downlink	Cellular	AWGN	-52.70		-3.75		5.81	0.41	1.65	
		GSM	-51.60		8.68		5.81	0.41	14.08	
	AWS-1	AWGN	-51.70		-2.82		7.35	1.1	3.43	
		GSM	-51.80		5.36		7.35	1.1	11.61	
	PCS	AWGN	-52.70		-4.06		7.13	1.15	1.92	
		GSM	-52.70		3.97		7.13	1.15	9.95	

4.3 Maximum Booster Gain Computation:

Maximum Gain:

Mode	Operation Band	Signal Type	Pre AGC Input (dBm)	Maximum Conducted Output Power (dBm)	Gain (dB)	Gain Limit (dB)
	Lower	AWGN	-42.80	17.46	60.26	≤63.49
	700MHz	GSM	-42.80	19.53	62.33	≤63.49
	Upper 700MHz	AWGN	-38.50	17.29	55.79	≤64.36
TT-1:-1-		GSM	-38.70	21.64	60.34	≤64.36
	Cellular	AWGN	-38.00	19.16	57.16	≤64.95
Uplink	Cenular	GSM	-38.00	22.71	60.71	≤64.95
	AWS-1	AWGN	-38.50	19.84	58.34	≤71.27
		GSM	-38.60	22.65	61.25	≤71.27
	PCS	AWGN	-34.80	18.72	53.52	≤71.99
		GSM	-34.90	22.39	57.29	≤71.99
	Lower 700MHz	AWGN	-61.60	-3.07	58.53	≤63.49
Downlink		GSM	-61.60	0.01	61.61	≤63.49
	Upper 700MHz	AWGN	-62.00	-4.33	57.67	≤64.36
		GSM	-62.10	-1.83	60.27	≤64.36
	Cellular	AWGN	-61.70	-3.72	57.98	≤64.95
	Cenular	GSM	-61.70	-0.51	61.19	≤64.95
	AWC 1	AWGN	-61.80	-2.86	58.94	≤71.27
	AWS-1	GSM	-61.80	-1.67	60.13	≤71.27
	DCS	AWGN	-62.70	-4.13	58.57	≤71.99
	PCS	GSM	-62.80	-1.04	61.76	≤71.99

Note:

1. Mobile Booster maximum gain shall not exceed 50 dB when using an inside antenna.

2. Fixed Booster maximum gain shall not exceed 6.5 dB + 20 Log10 (Frequency), Where, Frequency is the uplink mid-band frequency of the supported spectrum bands in MHz.

3. Device is fixed consumer signal boosters.

Equivalent Uplink and Downlink Gain:

Operation Band	Signal Type	Uplink Gain (dB)	Downlink Gain (dB)	Gain Computation (dB)	Gain Computation Limit (dB)
Lower	AWGN	60.26	58.53	1.73	±9
700MHz	GSM	62.33	61.61	0.72	±9
Upper 700MHz	AWGN	55.79	57.67	-1.88	±9
	GSM	60.34	60.27	0.07	±9
Cellular	AWGN	57.16	57.98	-0.82	±9
	GSM	60.71	61.19	-0.48	±9
AWS-1	AWGN	58.34	58.94	-0.60	±9
	GSM	61.25	60.13	1.12	±9
PCS	AWGN	53.52	58.57	-5.05	±9
	GSM	57.29	61.76	-4.47	±9

4.4 Intermodulation Product:

Serial Number:	22X8_1	Test Date:	2023/4/23, 2023/6/6, 2024/1/13, 2024/3/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen, Morpheus Shi	Test Result:	Pass

Environmental Conditions:

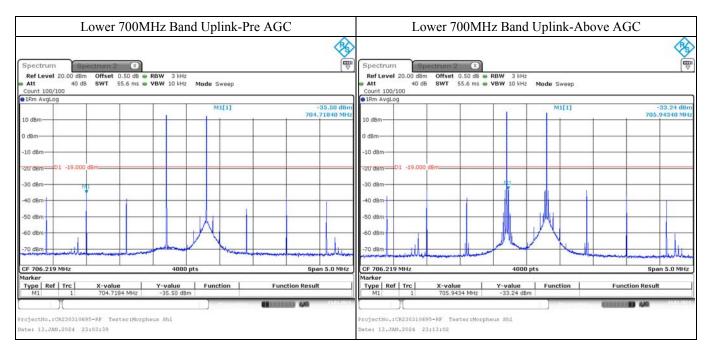
Temperature: (°C) 21.3~28.3	Relative Humidity: 38 (%)	8~45	ATM Pressure: (kPa)	100.2~101.9
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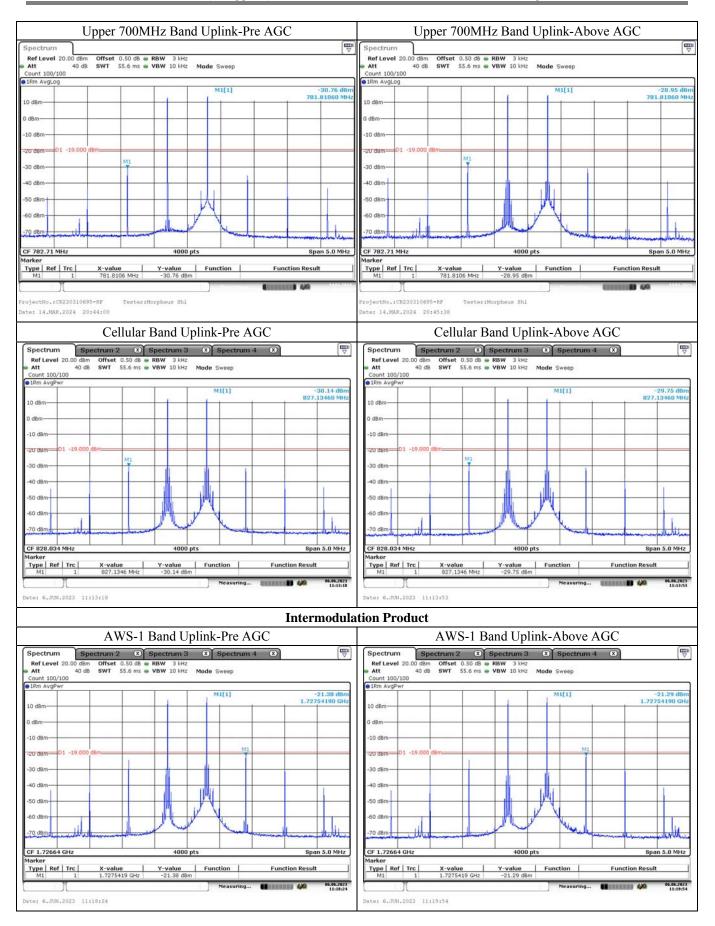
Test Equipment List and Details:

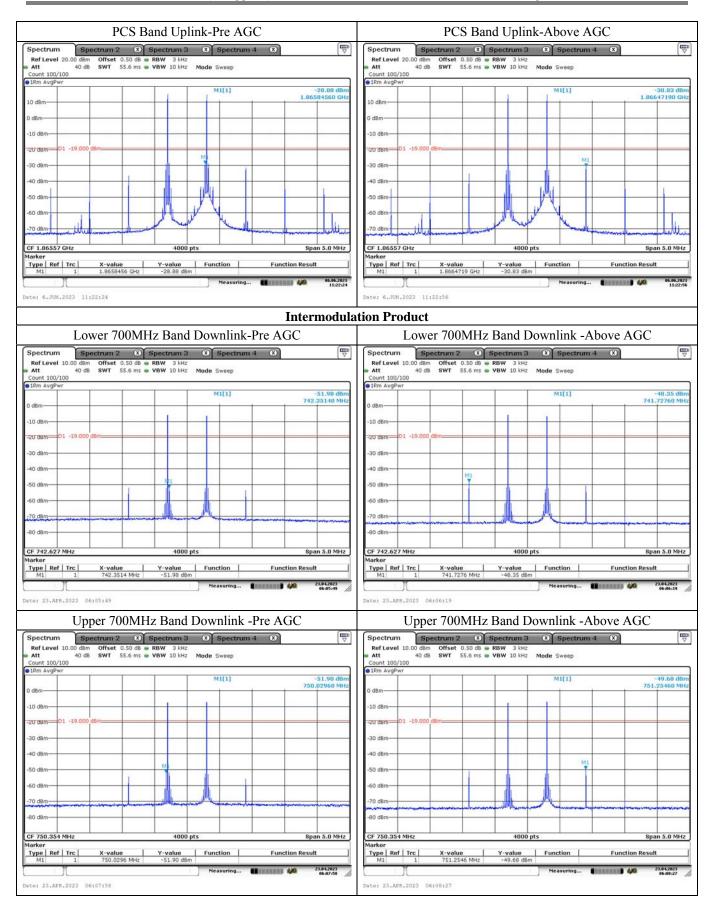
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2022/4/22	2023/4/21
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

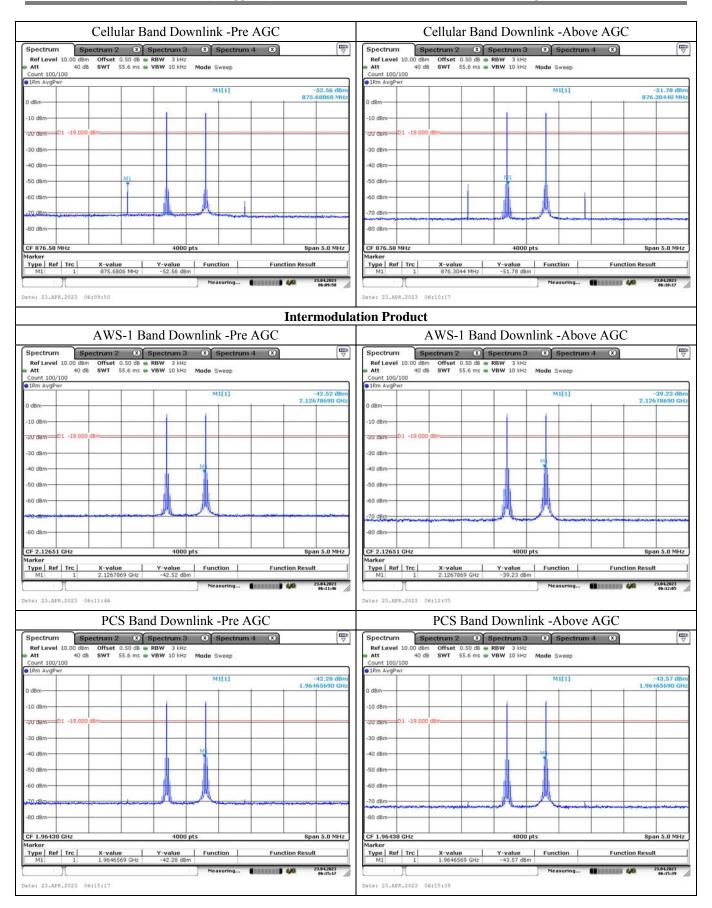
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:









4.5 Out Of Band Emissions:

Serial Number:	22X8_1	Test Date:	2023/6/5~2023/6/6
Test Site:	RF	Test Mode:	Transmitting
Tester:	Sern Shen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C) 21.3~28.3	Relative Humidity: 38~45 (%)	ATM Pressure: (kPa)	100.2~101.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Agilent	MXG Vector Signal Generator	N5182B	MY51350144	2023/3/31	2024/3/30

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

Lower 700M Band Uplink

Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Top Ref Lavel 0.00 dem Offset 0.50 de RBW 3 bit2 Made Sweep Count 100/100 9 JPM AvgPwr 1111 -41.35 dBm -10 dem 697.9999630 NHz -41.35 dBm -30 dem -30 dem -41.35 dBm -30 dem -41.35 dBm -30 dem -41.35 dBm -30 dem -41.45 dBm -30 dem -40 dBm -30 dem -40 dBm -30 dem -40 dBm -30 dem -40 dBm -30 dBm -40 dBm -30 dBm </th <th>Left Side-GSM-Pre AGC</th> <th>Left Side-GSM-Above AGC</th>	Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
10 dBm M1[1] -41.35 dBm -10 dBm 697.9999630 MHz -20 dBm 697.9999630 MHz -30 dBm -10 dBm -30 dBm -19.000 dBm -50 dBm -19.000 dBm -50 dBm -10 dBm -90 dBm -10 dBm -9	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Start 697.7 MHz 20000 pts Start 697.7 MHz 20000 pts Start 697.7 MHz Marker Marker Marker Marker Marker Type [Ref Trc X-value Y-value Function Function Result Type [Ref Trc X-value Y-value Function Function Result	-10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -50 dBm -50 dBm -30	-10 dBm -96.63 dBm -10 dBm 697.9999630 MHz -20 dBm -11,000 dBm -30 dBm -11,000 dBm -30 dBm -11,000 dBm -50 dBm -11,000 dBm
Manual 4/0 Measuring Measuring 95.66.2823 Manual 4/0 Manual 4/0 Manual 4/0 95.66.2823	Start 697.7 MHz 20000 pts Stop 698.0 MHz Marker Type Ref Trc X-value Y-value Function Result M1 1 697.999963 MHz -41.35 dBm Function Result	Start 697.7 MHz 20000 pts Stop 698.0 MHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 697.999963 MHz -36.63 dBm Maxet and the second

Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum 2 3 Spectrum 3 8 Spectrum 4 8	Spectrum 2 3 Spectrum 3 8 Spectrum 4 8
Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep	Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep
Count 100/100 FIRm AvgPwr	Count 100/100 IRm AvgPwr
M1[1] -32.67 dBm 697.9670530 MHz	M1[1] -29.75 dBm 697.9689430 MHz
0 dBm-	0 dBm-
-10 dBm	-10 dBm-
-20 dBm 01 -19:000 dBm	-20 dem 01 -19.000 dem
-30 dBm	-30 dBm
and the first state and a pression of the state of the st	~40 dBm-
-50 dBm	-50 dBm
+60 dBm	-60 dBm
-70 dBm-	-70 dBm
-80 dBm-	-80 dBm
Start 697.7 MHz 20000 pts Stop 698.0 MHz Marker	Start 697.7 MHz 20000 pts Stop 698.0 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 697.967053 MHz -32.67 dBm -32.67 dBm -	Type Ref Trc X-value Y-value Function Function Result M1 1 697.968943 MHz -29.75 dBm - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td
Measuring 11942/12	Measuring 05.86.2023
Date: 5.JUN.2023 13:42:33	Date: 5.JUN.2023 13:42:53
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 T Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz T	Ref Level 10.00 dBm Offset 0.50 dB • RBW 50 kHz
Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100
●1Rm AvgPwr	IRm AvgPwr M1[1] -34.02 dBm
0 dBm 697.9370530 MHz	0 dBm 697.9626280 MHz
-10 dBm-	-10 dBm-
-20 dum 01 -19.000 dBm	-zu dem 01 -19.000 dBm
-30 d8m	-30 d8m - 155 בינה איז
-40 d8m	-40 dBm
-50 dBm	-50 dBm
-60 dBm	-60 dBm
-70 dBm-	-70 dBm
-80 dBm	-80 dBm
Start 697.7 MHz 20000 pts Stop 698.0 MHz	Start 697.7 MHz 20000 pts Stop 698.0 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 697.937053 MHz -33.87 dBm	M1 1 697.962628 MHz -34.02 dBm
13:43:36	13:43:49
Date: 5.JUN.2023 13:43:37	Date: 5.JUN.2023 13:43:49
Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum 2 (3) Spectrum 3 (3) Spectrum 4 (8)	Spectrum Spectrum 2 (3) Spectrum 3 (3) Spectrum 4 (3)
Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Count 100/100 PIRm AvgPwr	Count 100/100 IRm AvgPwr
M1[1] -43.39 dBm 716.0178130 MHz	M1[1] -35.88 dBm 716.0197890 MHz
-10 dBm	-10 d8m-
-220 dBm 01 -19.000 dBm	-20 dam D1 -19.000 dam
-30 d8m-	-30 dgrg
-40 dbin-	-40'08m
Noo dBm	-50 dBm
-60 d8m	-60 dBm
-70 dBm	-70 dBm
-80 dBm	-80 dBm
-90 dBm	-90 dBm
Start 716.0 MHz 20000 pts Stop 716.3 MHz Marker	Start 716.0 MHz 20000 pts Stop 716.3 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 716.017813 MHz -43.39 dBm -43.39 dBm -43.39 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 716.018788 MHz -35.88 dBm -35.88 dBm -35.88 dBm
m1 1 210.017013 min2 -43.39 dbm Measuring 1 19702	M1 1 210.016785 MHz -35.66 Gbm Measuring Massaring 44 05.46.2021 131-0734
Date: 5.JUN.2023 13:47:23	Date: 5.JUN.2023 13:47:35

Right	Side-CDMA-Pre	AGC	F	Right Side-CDM	IA-Above A	GC
Ref Level 10.00 dBm Offset 0.50 dB	Spectrum 3 (X) Spectr RBW 30 kHz VBW 100 kHz Mode Sweep	rum 4 🛞 🕎	Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100	fset 0.50 dB 🖷 RBW 30 kH:	:	
●1Rm AvgPwr	M1[1]	-45.46 dBm	●1Rm AvgPwr		M1[1]	-43.73 dBm
0 dBm		716.0026630 MHz	0 dBm			716.0329180 MHz
-10 dBm-			-10 dBm-			
-20 dam D1 -19.000 dBm			-20'dem-01 -19.000 dem-			
-30 dBm			-30 dBm			
-50 dBm	more many alound have	and and a second and a second and a second as	-50 dBm	-	Manualant	Hapitar Jugurger with water with
-60 d8m			-60 dBm			
-70 dBm			-70 dBm			
-80 dBm			-80 dBm			
Start 716.0 MHz Marker	20000 pts	Stop 716.3 MHz	Start 716.0 MHz Marker	20000) pts	Stop 716.3 MHz
Type Ref Trc X-value M1 1 716.002663 MHz	Y-value Function -45.46 dBm	Function Result	Type Ref Trc X-	value Y-value .032918 MHz -43.73 dB	m Function	Function Result
	Measur	ing 05.06.2023 13:46:16			Measuring	05.06.2023 13:46:29
Date: 5.JUN.2023 13:46:17			Date: 5.JUN.2023 13:46:29	A		
Right S	ide-WCDMA-Pre		Ri	ght Side-WCD		
Right S	ide-WCDMA-Pre Spectrum 3 ③ Spectr RBW 50 kHz • VBW 200 kHz Mode Sweep	0	Ri Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100	ight Side-WCD	Spectrum 4	
Right S	Spectrum 3 (X) Spectr RBW 50 kHz	um 4 ⑧ ഈ	Ri Spectrum Spectru Ref Level 10.00 dBm Off a Att 40 dB SW	ight Side-WCD	Spectrum 4	★1.61 dBm
Right S	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ 🕎	Ri Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100	ight Side-WCD	Spectrum 4 Mode Sweep	8
Right S Spectrum 2 3 Ref Level 10.00 dBm Offset 0.50 dB Att 40 dB SWT 20 ms Count 100/100 FIRM AvgPwr 0 dBm -10 dBm -1	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100 IBm AvgPwr 0 0 dBm -10 dBm -10	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Right S Spectrum Spectrum Colspan="2">Colspan="2">Offset 0.50 dB • Att 40 dB SWF 20 ms • DBm 40 dB SWF 20 ms • DBm -10 dBm -119.000 dBm -19.000 dBm	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Ri Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100 IBm AvgPwr 0 dBm -10 dBm -20 dBm 01 -19.000 dBm	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Right S Spectrum 2 3 Ref Level 10.00 dBm Offset 0.50 dB Att 40 dB SWT 20 ms Count 100/100 FIRM AvgPwr 0 dBm -10 dBm -1	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100 IBm AvgPwr 0 dBm -10 dBm -10 dBm -10 dBm 01 -19.000 dBm -30 dBm	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Right S Spectrum Spectrum 2 Ref Level 10.00 d8m offset 0.50 d8 Att 40 d8 SWT 20 ms Count 100/100 0 8 SWT 20 ms 0 d8m	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Spectrum Spectru Ref Level 10.00 dBm off Att 40 dB SW Count 100/100 ●18m AvgPwr 0 dBm -10 dBm -20 dBm -30 dBm	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Right S Spectrum Spectrum 2 Ref Level 10.00 d8m offset 0.50 d8 Att 40 d8 SWT 20 ms count 100/100 IRm AvgPwr 0 0 d8m	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Ri Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB SW Count 100/100 IRm AvgPwr 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Right S Spectrum Spectrum 2 Colspan="2">Colspan="2">Colspan="2">Colspan="2" Att 40 dB SWT 20 ms Count 100/100 FIPM AvgPwr 0 dBm	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Spectrum Spectru Ref Level 10.00 dBm off Att 40 dB Other AvgPwr 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Right S Spectrum Spectrum 2 Colspan="2">Colspan="2">Colspan="2" Att 40 dB SWT 20 ms Count 100/100 FIRM AvgPwr 0 0 0 dBm -10 dBm -10 -19.000 dBm	Spectrum 3 (X) Spectr RBW 50 kHz VBW 200 kHz Mode Sweep	um 4 ⑧ ഈ	Spectrum Spectru Ref Level 10.00 dbm off Att 40 db SW count 100/100 IBm AvgPwr 0 dbm -10 dbm -20 dbm -30 dbm -40 dbm -50 dbm -60 dbm	ight Side-WCD	Spectrum 4 Mode Sweep	★1.61 dBm
Reflexel 10.00 dem Offset 0.50 de Att 40 db SWT 20 ms 0 dbm -0 db SWT 20 ms 0 dbm -0 db SWT 20 ms 0 dbm -0 db -0 db -0 db -10 dbm -0 dbm -0 dbm -0 dbm -30 dbm -0 dbm -0 dbm -0 dbm -0 dbm -0 dbm -0 dbm -0 dbm -30 dbm -0 dbm -0 dbm -0 dbm -10 dbm -0 dbm -0 dbm -0 dbm	Spectrum 3 (3) Spectr RBW 50 1H2 VBW 200 1H2 Mode Sweep M1[1] 444	um 4 (C)	Spectrum Spectru Ref Level 10.00 dBm off Att 40 dB Count 100/100 IPm AvgPwr 0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm -80 dBm	ight Side-WCDD	Spectrum 4 Mode Sweep M1[1] University of each state of the second	-41.61 dBm 716.0800930 MHz
Spectrum Spectrum Columnation Ref Level 10.00 dBm Offset 0.50 dB Att 40 dB SWT 20 ms Count 100/100 0 dBm 0 0 12 mAvgPvr 0 0 dBm 0 0 -10 dBm 01 -19.000 dBm 0 0 -30 dBm 01 -19.000 dBm 0 0 -30 dBm 0 0 0 0 0 0 -30 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Spectrum 3 (3) Spectr RBW 50 1H2 VBW 200 1H2 Mode Sweep M1(1) M1(1)	um 4 Em -42,75 dbm 716.0391880 MHz -10,0391880 MHz	Spectrum Spectru Ref Level 10.00 dBm Off Att 40 dB Count 100/100 FIRm AvgPwr D dBm 0 -10 dBm - -20 dBm 01 -19.000 dBm -30 dBm - -30 dBm - -40 dBm - -50 dBm - -60 dBm - -80 dBm - -80 dBm - -70 dBm - -80 dBm -	ight Side-WCD m 2 Spectrum 3 Seet 0.50 db RBW 50 kH T 20 ms VBW 200 kH M1	Spectrum 4 Sweep M1[1] Units Dpts Function	-41.61 dBm 716.0800930 MHz

Upper 700M Band Uplink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
Spectrum 2 3 Spectrum 3 8 Spectrum 4 8	Spectrum Spectrum 2 (3) Spectrum 3 (3) Spectrum 4 (3)
Ref Level 9.93 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 10.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Count 100/100 Rm AvgPwr	Count 100/100 IRm AvgPwr
0 d8m 1114 d8m 775.9949830 MHz	0 dBm M1[1] ~ 37.21 dBm 775.9749430 MHz
-10 dBm-	-10 dBm
-20 dbm 01 -19.000 dBm	-20 dsm 01 -19.000 dBm
-30 dBm	-30 dBm
MI	-40 dBm
mm	mm -
-50 dBm	-50 dBm
-60 dBm-	
	22,080 min day and the second
-80 d8m	-80 dBm
Start 775.7 MHz 20000 pts Stop 776.0 MHz Marker	Start 775.7 MHz 20000 pts Stop 776.0 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 775.994983 MHz -41.14 dBm <th>Type Ref Trc X-value Y-value Function Function Result M1 1 775.974943 MHz -37.21 d8m -37.21 d8m -37.21 d8m</th>	Type Ref Trc X-value Y-value Function Function Result M1 1 775.974943 MHz -37.21 d8m -37.21 d8m -37.21 d8m
Measuring Measuring Market D 442 14 0001	Ma 1 175.974945 Minz -57.62 00m Measuring 100000 05.06.2023 16:01:44
Date: 6.JUN.2023 10:20:16	Date: 5.JUN.2023 16:01:45
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum 2 & Spectrum 3 & Spectrum 4 &	Spectrum Spectrum 2 (Spectrum 3 (Spectrum 4 (S))
Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz	Ref Level 10.00 dBm Offset 0.50 dB . RBW 30 kHz
Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms • VBW 100 kHz Mode Sweep Count 100/100 Count 100/100
AvgPwr M1[1] -43,19 dBm AvgPwr	
0 dBm 775.9471930 MHz	0 d8m
-10 dBm-	-10 dBm
-20 dam-01 -19.000 dBm-	-20 dem 01 -19.000 dem
-30 dBm	-30 dBm
-40 dBm	-40 dBm
VSU UB ANT A STATE AND A STATE	SO DEM
-60 dBm	-60 dBm
-70 dBm	-70 dBm
-80 d8m-	-80 dBm
Start 775.7 MHz 20000 pts Stop 776.0 MHz	Start 775.7 MHz 20000 pts Stop 776.0 MHz
Marker	Marker
M1 1 775.947193 MHz -43.19 dBm	M1 1 775.996693 MHz -43.21 dBm
16:02:35	Measuring 16:02:25
Date: 5.JUN.2023 16:02:36	Date: 5.JUN.2023 16:02:26
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 C Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz Image: Control of the second sec	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 T Ref Level 10.00 d8m Offset 0.50 d8 RBW 50 kHz T
Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VSW 200 kHz Mode Sweep Count 100/100
	● 1Pm AvgPwr M1(1) -33.52 dBm
0 d8m 775.8460330 MHz	0 dBm 775.7783680 MHz
-10 dBm	-10 dBm
-20 dum 01 -19.000 dBm	-20 dem-01 -19.000 dBm-
-30 dBm-	-30 dBmM2
-60.48m	40 48/2
-50 dBm-	-50 dBm
-60 d8m	-60 dBm
-70 d8m-	-70 dBm-
-80 d8m	-80 dBm
Start 775,7 MHz 20000 pts Stop 776.0 MHz	Start 775.7 MHz 20000 pts Stop 776.0 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 775.846033 MHz -40.25 dBm	M1 1 775.778368 MHz -33.52 dBm Measuring Measuring 400 95.64.222
Date: 5.JUN.2023 16:03:49	Date: 5.JUN.2023 16:04:07
NOS PER ADAM CERVICIA NE PROVINCIA	ALL REPORT ARAMA REPORTED

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum 2 🕅 Spectrum 3 🗶 Spectrum 4 🗶	Spectrum Spectrum 2 (8) Spectrum 3 (8) Spectrum 4 (8)
Ref Level 10.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 10.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Count 100/100 Rm AvgPwr	Count 100/100 IRm AvgPwr
M1[1] -+44.23 dBm 787.0182330 MHz	M1[1] -36.14 dBm 787.0169130 MHz
0 d8m	0 d8m
-10 dBm	-10 dBm
-20 dem-01 -19.000 dem-	-20 dem 01 -19.000 dem
-30 d8m	-30 dBm-
-40 data	-seroem
50 dam	- mm
	-50 dBm
-60 dBm	-60 dBm
-70 dBm	-70 dBm
-80 dBm	-80 dBm
Start 787.0 MHz 20000 pts Stop 787.3 MHz	Start 787.0 MHz 20000 pts Stop 787.3 MHz
Marker	Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 787.018233 MHz -44.23 dBm -44.23 dBm -44.23 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 787.016913 MHz -96.14 dBm -96.14 dBm
	Measuring 10111111 400 95.45.2023
Date: 5.JUN.2023 16:46:33	Date: 5.JUN.2023 16:46:50
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
	Spectrum Spectrum 2 & Spectrum 3 & Spectrum 4 &
Ref Level 10.00 dBm Offset 0.50 dB 🖷 RBW 30 kHz	Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz
Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
●1Rm AvgPwr M1[1] ~45.12 dBm	●1Rm AvgPwr M1[1] -43.30 dBm
0 d8m	0 dBm 787.0070580 MHz
-10 dBm	-10 dBm
-20 dBm 01 -19.000 dBm	-20 dem D1 -19.000 dBm
-30 dBm	-30 dBm
-40,d8m-	40 dBm-
-50 dBm	ารัง เสียก
+60 d8m	-60 dBm
-70 dBm-	-70 dBm
-80 d8m-	-80 dBm-
-00 UDIII	-00 UBII
Start 787.0 MHz 20000 pts Stop 787.3 MHz	Start 787.0 MHz 20000 pts Stop 787.3 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 787.008483 MHz -45.12 dBm Measuring Martine 40 05.46.202	M1 1 787.007058 MHz -43.38 d8m
Date: 5.JUN.2023 16:07:32	Date: 5.JUN.2023 16:07:46
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Spectrum 3 Spectrum 2 Spectrum 3 Spectrum 4 S	Spectrum 2 X Spectrum 3 X Spectrum 4 X
Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep
Count 100/100 IRm AvgPwr	Count 100/100 IRm AvgPwr
M1[1] -40.49 dBm 787.1397630 MHz	M1[1] -39.92 dBm 787.0956180 MHz
0 dBm	0 dBm
-10 dBm	-10 dBm
-20 dem 01 -19.000 dem	-20 dem 01 -19.000 dem
-30 d8m	-30 dBm
40 d800	-40 dBm
-50 dBm-	-50 dBm
-60 d8m	-60 dBm-
-70 dBm-	-70 dBm-
-80 dBm	-80 dBm
Start 787.0 MHz 20000 pts Stop 787.3 MHz	Start 787.0 MHz 20000 pts Stop 787.3 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 787.139763 MHz -40.49 dBm	M1 1 787.095618 MHz -39.92 dBm
Measuring 10000000000000000000000000000000000	Measuring 10000000000000000000000000000000000
Date: 5.JUN.2023 16:06:16	Date: 5.JUN.2023 16:06:05

Cellular Band Uplink

		_]	Left S	ıde-G	SM-I	Pre A	.GC							L	ett Si	de-GS	M-Al	pove A	GC		
M Model BVT 2016 B							Spect	trum 4	×		[₽.							Spectru	m 4 🛞		(C
market Militian M	tt	40 dBm	SWT	20 ms 🖷 🕅	VBW 10 kH	iz Mode	e Sweep						Att	40 0	m Offset IB SWT	20 ms •	VBW 10 k	HZ HZ Mode	Sweep			
					_	-										12	-					
an an <td< td=""><td>Bm</td><td></td><td></td><td>_</td><td></td><td>_</td><td>M1[1]</td><td></td><td></td><td>823.9</td><td></td><td></td><td>0 d8m</td><td></td><td></td><td>_</td><td></td><td>_</td><td>M1[1]</td><td></td><td>823.98</td><td>-37.93 di 84430 M</td></td<>	Bm			_		_	M1[1]			823.9			0 d8m			_		_	M1[1]		823.98	-37.93 di 84430 M
and <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>255//2309/</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					_								255//2309/									
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an an <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1000000</td><td></td><td>- della</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													1000000		- della							
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Ser Answer Answer <td>dBm-</td> <td></td> <td></td> <td></td> <td></td> <td>+</td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td>11</td> <td>-80 dBm</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>	dBm-					+	+					11	-80 dBm								-	
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	pe Ref Tr	c	X-value	e			unction	1	Fund	tion Resu	ilt		Type Re	fTrc	X-valı	ie			Inction	Fur	iction Result	t
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Left Side-CDMA-Pre AGC Left Side-CDMA-Above AGC etrum Spectrum 3 Spectrum 4 Spectrum 3 Spectrum 4	: 5.JUN.202	3 16:48	:02				1) 0055003		-		16:46:		Date: 5.JU	N.2023 1	6:48:19							16:4
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M O G NVT 20 m BWT							Spect	trum 4	X			7		A DOCTOR OF					Spectru	m 4 🙁		
m. a region >1.1300 NIII >20.14000 m. m		40 dB	SWT	20 ms 🖷 🕅	VBW 100 k	Hz Mod	de Sweep								IB SWT	20 ms 🖷	VBW 100	kHz Mod	le Sweep			
In In<		1		1		T I	M1[1]				-39.17 dB		●1Rm AvgF	Pwr	ľ	1	1	T I	M1[1]			38.58 d
<u>man o 1 -19 000 min o 1 -19 </u>	lm	_				-	-	-		823.9			0 dBm		-	-	-	-	-	1	823.97	12680 M
Bits Image: State 100 mm	dBm	_					_	_			-	- 11	-10 dBm		_	-	-	_	_		-	_
Bit Image: Bit	d8m-01 -	19.000 dBr	m					_					-20 dBm	D1 -19.00	0 dBma		_			_		
an	1Bm												-30 dBm									
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ppc Part Trc X-value Y-value Function Result Image: State		z			200	00 pts				Stop	824.0 MH			7 MHz			20	000 pts	_		Stop (824.0 MI
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Left Side-WCDMA-Pre AGC Left Side-WCDMA-Above AGC Spectrum 2 Spectrum 3 Spectrum 4						1.]	Measu	iring	STRAIN.	10 4/4	05.06.20	23		J)	Measurin	g BARREN	10 499	05.06.2
Spectrum 2 Spectrum 3 Spectrum 4 Spectrum 3 Spectrum 3 Spectrum 4 Spectrum 3 Spectrum 3 Spectrum 4 Spectrum 4 Spectrum 3 Spectrum 4 Spectrum 3 Spectrum 4 Spectrum 4 Spectrum 3 Spectrum 4 Spectru	: 5.JUN.202	3 16:49	:19									z	Date: 5.JU	N.2023 1	6:48:58							
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of Lavel 10.00 dBm Offset 0.50 dB	ectrum	Spec					-	-	_		ſ		Spectru	n ís		~	2		~		S	(
m AugBwr 01/10/10/10/10/10/10/10/10/10/10/10/10/1	ef Level 10.0	00 dBm	Offset	0.50 dB 🖷 🖡	RBW 50 k	Hz					1		Ref Leve	1 10.00 dB	m Offset	0.50 dB 🖷	RBW 50	kHz				1
am M1[1] -34.64 dbm am B23.9514600 Mtz B23.9514600 Mtz dBm B23.951460 Mtz B23.9514600 Mtz dBm B23.951460 Mtz B23.951460 Mtz dBm B20.951460 Mtz B23.951460 Mtz dBm B23.951460 Mtz Stop 824.0 M	unt 100/100	40 UB	awi	20 ms 🖷	7 BW 200 K	m2 M00	ie Sweep	<u>'</u>				_ [Count 100	/100	10 SW1	20 ms	VBW 200	KH2 MOC	le Sweep			
m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m m	A AVGPWI						M1[1]			000.0		m	THUI AVG		1	1	1	1	M1[1]			-34.26 d
dum 01 - 19.000 dBm 1 19.000 dBm 1 1 1 1 1 1 1 1 1 1 2000 pts 1 1 2000 pts 1 1 2000 pts 1 1 2000 pts 1 1 1 2000 pts 1 2000 pts 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	§m			<u> </u>	-	+	1			323.9	514080 M	14	0 dBm			1	-	-		1	823.88	10130 1
dBm	dBm	-		-	-	-	-	-			-		-10 dBm	-	-	-	-	-				-
dBm	dum D1 -	19.000 dBr	m	-	-	-							-20 dBm-	D1 -19.00	0 dBm		-					
dBm d	dBm-		1. J.			1		57940 T-		M12			-30 dBm	-			100-00	- 1	M1	and spaces of	100,0000	
dBm	dBm	a hiter of the second sec	antinited	- stipe with	and the second s	-	Bill Sharping	a hadrestered	and an interesting	-	-	1	40 d8m-	any rear making	the number of the	des reserves in	and the second	in another	new linsteriores.	al and a second second	inen alter helt	and the second sec
dBm	dBm			<u> </u>	<u> </u>		_				-		-50 dBm		-			-		-	-	-
dBm dBm 20000 pts Stop 824.0 MHz rt 823.7 MHz 20000 pts Stop 824.0 MHz ker po Ref Trc X-value Y-value Function Result 1 823.951468 MHz -34.64 dBm 4000 Function Result MI 1 823.951468 MHz -34.64 dBm 4000 Function Result	d8m					+	_	-			-	╡║	-60 d8m							-		
Art 823.7 MHz 20000 pts Stop 824.0 MHz ker re Ref Trc X-value Y-value Function Result Marker M1 1 823.951468 MHz -34.64 dBm Function Result M1 1 823.95463 MHz -34.26 dBm Function Result	dBm						_			-	-	╡║	-70 dBm		-		_	-		_	-	
Art 823.7 MHz 20000 pts Stop 824.0 MHz Stop 824.0 MHz Stop 824.0 MHz Marker Stop 824.0 MHz Marker Stop 824.0 MHz Marker Stop 824.0 MHz Stop 824.0 MHz Marker <		-		<u> </u>	<u> </u>	<u> </u>	_						-80 dBm		-		_	-		_	-	
Marker pe Ref Tr X-value Y-value Function Result M1 1 823.951468 MHz -34.64 dBm Function Result M1 1 823.884643 MHz -34.26 dBm Function Result	dBm					00.00					004.00			7.444								
M1 1 823.951468 MHz -34.64 dBm M1 1 823.884643 MHz -34.26 dBm					200	ou pts				Stop	024.0 MH			/ MHZ			20	oou pts			Stop (
	rt 823.7 MH: ker	15																				

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Theorem Ref Level 9.93 d8m Offset 0.50 d8 RBW 3 kHz Att 40 d8 SWT 20 ms VBW 10 kHz Mode Sweep Count 100/100 Count 500/100 VBW 10 kHz Mode Sweep Count 500/100	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Tttp://www.spectrum Tttp://www.spectrum Tttp://www.spectrum Ttttp://www.spectrum Ttttp://www.spectrum Ttttp://www.spectrum Ttttp://www.spectrum Tttttttttttttttttttttttttttttttttttt
0 dBm B49.0176630 MHz	(Ifm AvgPwr (M1[1] -37.60 dBm (Bm
-10 dBm-	-10 dam
-20 dBm D1 -19.000 dBm	-20 dBm 01 -19.000 dBm
-10 dan	Ma asim Vinne
-60 dam	-50 dBm
-70 dBm	-70 dBm
-80 dBm	-80 dBm
Date: 6.JUN.2023 09:19:57	Measuring Measuring
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
Spectrum Spectrum 2 Image: Constraint of the system Spectrum 3 Image: Constraint of the system Spectrum 4 Image: Constraint of the system I	Spectrum Spectrum 2 ③ Spectrum 3 ▲ Spectrum 4 ▲ Image: Constraint of the system of
IRm AvgPwr M1[1] -50.52 dBm 849.1110600 MHz	18m AvgPwr 11 42,78 dBm 849.0203030 MHz
0 dBm-	0 dBm-
-10 dBm-	-10 dBm
-20 dBm	-20 dBm
-40 d8m	-40 d8 <mark>m¹</mark>
-50 dBm	een have a first we are a first when the second second and a second se
-60 d8m	-60 dBm-
-70 dBm	-70 dBm-
-80 d8m	-80 dBm
Start 849.0 MHz 20000 pts Stop 849.3 MHz Marker	Start 849.0 MHz 20000 pts Stop 849.3 MHz Markor
Type Ref Trc X-value Y-value Function Function Result M1 1 849.111068 MHz -50.52 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 849.020303 MHz -42.78 dBm -42.78 dBm -42.78 dBm
Measuring Measuring<	Measuring Measuring 06.66.2823 892418 Date: 6.JUN.2023 09:24:11 09:24:11
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 T T Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T T <t< th=""><th>Spectrum Spectrum 2 Spectrum 3 Image: Construction 2 Spectrum 3 Image: Construction 2 Spectrum 3 Image: Construction 2 Spectrum 4 Image: Construction 2 Image: Construction 2 Spectrum 4 Image: Construction 2 Image: Construction 2</th></t<>	Spectrum Spectrum 2 Spectrum 3 Image: Construction 2 Spectrum 3 Image: Construction 2 Spectrum 3 Image: Construction 2 Spectrum 4 Image: Construction 2 Image: Construction 2 Spectrum 4 Image: Construction 2
M1[1] -44.59 dBm 849.0648530 MHz	M1[1] -37,61 dBm 849,0285830 MHz
-10 dBm	-10 dBm-
-zu dum 01 -19.000 dBm	-20 dam 01 -19.000 dBm
-30 dBm	-30 dBm
-40 dBm	112510000000000000000000000000000000000
Henningen an Jan Jan Jan Jan Jan Jan Jan Jan Jan	-50 d8m-
-60 dBm	+60 dBm
-70 dBm	-70 dBm
-80 d8m	-80 d8m
Start 849.0 MHz 20000 pts Stop 849.3 MHz Marker	Start 849.0 MHz 20000 pts Stop 849.3 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 849.064853 MHz -44.59 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 849.028583 MHz -37.61 dBm
Measuring Measuring Measuring Date: 6.JUN.2023 09:21:19	Neasuring 0:05:023 Date: 6.0104.2023 09:20:52

AWS-1 Band Uplink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
Spectrum 2 8 Spectrum 3 8 Spectrum 4 8	Spectrum Spectrum 2 (Spectrum 3 (Spectrum 4 (Spectrum
RefLevel 9.93 Bm Offset 0.50 dB RBW 3 kHz Att 40 68 SWT 33.4 ms VBW 10 kHz Mode Sweep Count 100/100 Count 100/100 Count 100/100	RefLevel 9.93 dem Offset 0.50 db ● RBW 3 kHz Att 40 db SWT 33.4 ms ♥ BW 10 kHz Mode Sweep Count 100/100
1Pm AvgPwr M1[1] -45,49 dBm 1 menon2an cu-	18m AvgPwr
0 dBm	D dBm
-10 dBm-	-10 dBm-
-20 dBm 01 -19.000 dBm	-20 dgm 01 -19.000 dgm
-30 d8m-	-30 dBm
-40 dBm-	-40 dom-
-50 d8m-	-60 dBm-
-60 dBm-	-70 dBm
-70 dBm	-80 dBm
-80 dBm	Start 1.707 GHz 20000 pts Stop 1.71 GHz
	Marker Type Ref Trc X-value Y-value Function Function Result
Stort 1.707 GHz 20000 pts Stop 1.71 GHz Measuring Measuring 6666.2023 992813	M1 1 1.70998178 GHz -36.77 dBm Measuring Measuring Measuring
Date: 6.JUN.2023 09:28:14	Date: 6.JUN.2023 10:03:25
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum Spectrum 2 (X) Spectrum 3 (X) Spectrum 4 (X) (V)	Spectrum Spectrum 2 🛞 Spectrum 3 🛞 Spectrum 4 🛞
Ref Level 10.00 dbm Offset 0.50 db RBW 30 HHz Att 40 db SWT 20 ms VBW 100 HHz Mode Sweep Count 100/100	Ref Level 10.00 dbm Offset 0.50 db RBW 30 kHz Att 40 db SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
● 1Rm AvgPwr M1[1] -45.59 dBm	●1Rm AvgPwr M1[1] ~42.12 dBm
0 d8m	0 dBm
-10 dBm	-10 dBm-
-20 dBm-01 -19.000 dBm-	-20 dBm 01 -19.000 dBm
-30 dBm	-30 d8m
-40 d8m M1	-40 dBm
-50 dBm	-50 dBm
-70 dBm	-00 dBm
-80 dam	-90 dBm
Start 1.707 GHz 20000 pts Stop 1.71 GHz	Start 1.707 GHz 20000 pts Stop 1.71 GHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 1.70995028 GHz -45.59 dBm Measuring 80.00.000 96.00.2023	MI I 1.70990768 GHz -42.12 dBm Measuring 66.86.2021
092516	Date: 6.JUN.2023 09:25:31
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Spectrum 2 Spectrum 3 Spectrum 4 S	Spectrum Spectrum 2 Spectrum 3 ⊗ Spectrum 4 ™
Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep	Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep
Count 100/100 @1Rm AvgPwr	Count 100/100 IRm AvgPwr
0 d8m	0 dBm
-10 dBm	-10 dBm-
-20 dsm 01 -19.000 dBm	-20 dam 01 -19.000 dam
-30 d8m	-30 dBm-
-40 dBm	-40 dBm
a Sig diamage and an and a second	450 CBM
-60 d8m	-60 dBm
-70 dBm	-70 dBm-
-80 d8m	-80 d8m
Start 1.707 GHz 20000 pts Stop 1.71 GHz Marker	Start 1.707 GHz 20000 pts Stop 1.71 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 1.70997338 GHz -43.93 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 1.70927723 GHz -42.88 dBm - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - </td
Measuring 🚺 100.00.2023 99.07.02	Measuring
Date: 6.JUN.2023 09:27:23	Date: 6.JUN.2023 09:32:48

Note: Note: <th< th=""><th>Right Side-GSM-Pre AGC</th><th>Right Side-GSM-Above AGC</th></th<>	Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Market in de la print la reaction de la print la re		
Bit Argent Hill argent Bit Argent Bit Side-CDMA-Pre AGC Right Side-CDMA-Pre AGC Bit Side Bit Side-CDMA-Above AGC Right Side-CDMA-Pre AGC Bit Side Bit Side-CDMA-Pre AGC Right Side-CDMA-Pre AGC Bit Side Bit Side Right Side-CDMA-Pre AGC Bit Side Bit Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side Right Side	Att 40 dB SWT 33.4 ms WBW 10 kHz Mode Sweep	Att 40 dB SWT 33.4 ms WBW 10 kHz Mode Sweep
i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i i	●1Rm AvgPwr	●1Rm AvgPwr
i i i i i i i i i i i i i i i i i i i	1.755018230 GHz	1.755017930 GHz
	1	
an important in the impor		
Int 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU 2000 pts Exp 1.3.0 GU Exp 1.3.0 GU<		
Number Initial	-80 dBm-	-80 d8m
Image: Note: Section: Control to the state in the st		
	Type Ref Trc X-value Y-value Function Function Result	Type Ref Trc X-value Y-value Function Function Result
	Measuring 06.06.2023	
Spectrum		Date: 6.JUN.2023 10:00:28
Spectrum	Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
Instruction Section Other 10.05 de la WW 2016 to Made Sector 2016 WW 2016 to		
control (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)000 (1)0000 (1)0000 (1)000 (1)	Ref Level 10.00 dBm Offset 0.50 dB . RBW 30 kHz	Ref Level 10.00 dBm Offset 0.50 dB . RBW 30 kHz
Image: Sector market in the sector market	Count 100/100	Count 100/100
la da	M1[1] -38.74 dBm	M1[1] -37.73 dBm
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 dBm	0 dBm
bio dam da da	-10 dBm	-10 dBm
tion to the second se	-20 dsm 01 -19.000 dBm	-20 dem 01 -19.000 dem
0 dm	-30 dBm	-30 dBm
0 dm		MOREQUER IN THE REAL PROPERTY OF THE REAL PROPERTY
00 mm 00 mm <td< td=""><td>-50 dBm</td><td></td></td<>	-50 dBm	
Bit of the first 1.755 GHz 2000 pts Bit of 1.755 GHz 2000 pts <td>-60 dBm</td> <td>-60 dBm-</td>	-60 dBm	-60 dBm-
Barel 1.253 GHz 20000 pts Stop 1.258 GHz Namer	-70 dBm-	-70 dBm
Nation Nation Function Result 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th>-80 dBm-</th> <th>-80 dBm-</th>	-80 dBm-	-80 dBm-
Nation Nation Function Result 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td></td>		
Mi 1 7.7550038 0Hz -38.74 ddm Measuring	Marker	Marker
best 6.478.2023 1610133 Dest 6.478.2023 1610133	M1 1 1.75500338 GHz -38.74 dBm	M1 1 1.75506443 GHz -37.73 dBm
Right Side-WCDMA-Pre AGC Right Side-WCDMA-Above AGC Spectrum 3 Spectrum 3 O Spectrum 3 O Spectrum 4 O D Spectrum 3 O Spectrum 4 O Spectrum 3 O Spe	Neasuring 10 06.66.2023	
Spectrum	Date: 6.JUN.2023 10:01:56	Date: 6.JUN.2023 10:01:33
Ref Level 10.0 dem Offset 0.50 de PBW 50 Hz Att 40 de SWT 20 ms v BW 200 Hz Mode Sweep Count 100/100 91m AvgPwr	Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Att 40 db SWT 20 ms VBW 200 Hz Made Sweep Count 100/100 Image: Street in the street i		
• IPm AvgPwr • O dBm • O dBm	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep
0 dBm 1.755202720 GHz -10 dBm 0 dBm -20 dBm 0 dBm -20 dBm 0 dBm -30 dBm 0 dBm -30 dBm 0 dBm -60 dBm 0 dBm -70 dBm 0 dBm -80 dBm 0 dBm -70 dBm 0 dBm -70 dBm 0 dBm -80 dBm 0 dBm -17 yype [Ref Trc X-value Y-value Yype [Ref Trc X-value Y-value Yype [Ref Trc X-value <td< td=""><td>e 1Rm AvgPwr</td><td>●1Rm AvgPwr</td></td<>	e 1Rm AvgPwr	●1Rm AvgPwr
-10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -70 dBm -70 dBm -11 1 1.755 GHz 20000 pts Stop 1.758 GHz -30 dBm -10	1.755202730 GHz	1,755206780 GHz
-20 dem 01 -19.000 dem -20 dem		
-30 dBm		
-So dBm		
-50 dBm -60 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -80 dBm -80 dBm -80 dBm -10	-30 dBm	-30 dBm
-60 dBm -70 dBm -60 dBm -60 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -80 dBm -80 dBm -80 dBm -80 dBm -70 dBm -80 dBm -90 dBm -90 dBm -90 dBm -90 dBm -80 dBm -90 dBm -90 dBm -90 dBm -90 dBm -80 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 dBm -90 d		and the second se
-70 dBm -80 dBm -80 dBm -80 dBm -80 dBm -10	-50 dBm	-50 dBm
-80 dBm -80 dBm <t< td=""><td>-60 dBm</td><td>-60 dBm</td></t<>	-60 dBm	-60 dBm
Start 1.755 GHz 20000 pts Stop 1.758 GHz Stop 1.7550 GHz Stop 1.759 GHz Stop 1.759	-70 dBm-	-70 dBm-
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 1.75520273 GHz -36.62 dBm Marker M1 1 1.75520678 GHz -36.74 dBm Function Result M1 1 1.75520678 GHz -36.74 dBm Messuring	-80 d8m	-80 dBm
Type Ref Trc X-value Y-value Function Function M1 1 1.75520273 GHz -36.62 dBm M1 1 1.75520678 GHz -36.74 dBm M1 1 1.75520678 GHz <td></td> <td></td>		
M1 1 1.75520273 GHz -36.62 dBm M1 1 1.75520678 GHz -36.74 dBm Hessuring Hessuring 1 1.75520678 GHz -36.74 dBm 91.05.2823	Marker Type Ref Trc X-value Y-value Function Function Result	Type Ref Trc X-value Y-value Function Function Result
	M1 1 1.75520273 GHz -36.62 dBm	M1 1 1.75520678 GHz -36.74 dBm
	Date: 6.JUN.2023 09:55:34	Date: 6.JUN.2023 09:55:17

PCS Band Uplink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
Spectrum 2 3 Spectrum 3 8 Spectrum 4 8	Spectrum 2 8 Spectrum 3 8 Spectrum 4 8
Ref Level 9.93 d8m Offset 0.50 d8 RBW 3 kHz Att 40 d8 SWT 33.4 ms VBW 10 kHz Mode Sweep	Ref Level 9.93 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 33.4 ms VBW 10 kHz Mode Sweep
Count 100/100 IRm AvgPwr	Count 100/100 FIRm AvgPwr
M1[1] -50.42 dBm 0.d8m - 1,849996480 GHz	M1[1] -40.18 dBm 0 dBm - 1.849981780 GHz
-10 dBm	-10 dBm
-20 dBm 01 -19.000 dBm	-20 dsm 01 -19.000 d8m
-30 dBm	-30 dBm-
-40 dBm	-40 dBm
-50 dBm	-50 dBm-
-60 dBm	-60 dBm-
-70 dBm	-70 dBm
-80 dBm	-80 dBm
Start 1.847 GHz 20000 pts Stop 1.85 GHz	Start 1.847 GHz 20000 pts Stop 1.85 GHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 1.84999648 GHz -50.42 dBm	M1 1 1.84998178 GHz -40.18 dBm
Date: 6.JUNI.2023 10:08:00	19:09:14
	Date: 6.JUN.2023 10:08:14
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 T Ref Level 10.00 dBm Offset 0.50 dB 	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Time Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz Image: Comparison of the compari
Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
●IPm AvgPwr	(IRm AvgPwr
0 d8m	0 d8m
-10 dBm	-10 dBm
-20 dgm 01 -19.000 dBm	-20 dsm 01 -19.000 dBm
-30 dBm-	-30 dBm-
-40 dBm	M1.
	and the second se
-50 d8m	-50 dBm-
-60 dBm	-60 dBm
-70 dBm	-70 dBm-
-80 dBm	-80 dBm
Start 1.847 GHz 20000 pts Stop 1.85 GHz Marker	Start 1.847 GHz 20000 pts Stop 1.85 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 1.84998403 GHz -55.52 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 1.84994863 GHz -41.89 dBm
Measuring 1 4.04990403 Uniz -55.52 Com Measuring 1 4.04990403 Uniz -55.52 Com	M1 1 1.04994603 GHz -41.09 GBH Measuring 104994603 GHz -41.09 GBH
Date: 6.JUN.2023 10:09:26	Date: 6.JUN.2023 10:09:12
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz	Ref Level 10.00 dBm Offset 0.50 dB a RBW 50 kHz
Att 40 dB SWT 20 ms • VBW 200 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100
●1Rm AvgPwr	●IPm AvgPwr M1[1] -43.42 dBm 1.849706830 GHz
0 d8m	0 dBm
-10 dBm-	-10 dBm-
-20'd8m-01 -19.000 d8m-	-20 dBm 01 -19.000 dBm
-30 dBm	-30 dBm
-40 dBm-	-40 d8m
-50 dBm	358. 98 mar mar and a second and a second and a second a second a second and and and and a second a second a second
NOT SOM AND	-60 dBm-
-70 dBm-	-70 dBm
-80 dBm	-80 dBm
Reart 1.847 (Hz)	
Start 1.847 GHz 20000 pts Stop 1.85 GHz Marker	Start 1.847 GHz 20000 pts Stop 1.85 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 1.84991353 GHz -53.66 dBm -53.66 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 1.84970683 GHz -43.42 dBm
Measuring 10 06.66.2023	Measuring 10:06:2023
Date: 6.JUN.2023 10:10:21	Date: 6.JUN.2023 10:10:50

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum Spectrum 2 ③ Spectrum 3 ③ Spectrum 4 ③ Ref Level 9.93 d8m Offset 0.50 d8 ● RBW 3 kHz □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Image: Construct a spectrum 4 Image: Construm 4 Image: Construm 4 Image: Con
Att 40 dB SWT 33.4 ms VBW 10 kHz Mode Sweep Count 100/100	Att 40 dB SWT 33.4 ms VBW 10 kHz Mode Sweep Count 100/100
●1Rm AvgPwr	e 1Rm AvgPwr
0 d8m	0 d8m
-10 dBm-	-10 dBm-
-20 dem 01 -19.000 dBm	-zu dem 01 -19.000 dBm
-30 dBm	-20 dam
-40 d8m	H40 d8m
•50 d8m	50 d8m
160 d8m-	-60 dBm-
-78 dBm	-70 kBm
-80 dBm-	-60 dBm-
Start 1.915 GHz 20000 pts Stop 1.918 GHz Marker	Start 1.915 GHz 20000 pts Stop 1.918 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 1.91501898 GHz -54.43 dBm <td>Type Ref Trc X-value Y-value Function Function Result M1 1 1.91501793 GHz -44.38 dBm -44.38 dBm</td>	Type Ref Trc X-value Y-value Function Function Result M1 1 1.91501793 GHz -44.38 dBm
Neasuring 191502000 0112 01100 0000 0000 0000 0000 0	Neasuring 1111101
Date: 6.JUN.2023 10:16:49	Date: 6.JUN.2023 10:16:31
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
Spectrum 2 C Spectrum 3 C Spectrum 4 C	Spectrum Spectrum 2 (3) Spectrum 3 (2) Spectrum 4 (3)
Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep	Ref Level 10.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep
Count 100/100 • 1Rm AvgPwr	Count 100/100
M1[1] -59.87 dBm 1.915022430 GHz	M1[1] -37.07 dBm 1.915000380 GHz
0 dBm	0 dBm
-10 d8m	-10 dBm-
-20 dam-01 -19.000 dBm-	-20 dBm D1 -19.000 dBm
-30 d8m	-30 dBm
-40 d8m-	Mars JBm
-50 d8m	-50 dam
Teo dBm	-60 dBm
-70 dBm	-70 dBm-
-80 dBm-	-80 dBm
Start 1.915 GHz 20000 pts Stop 1.918 GHz	Start 1.915 GHz 20000 pts Stop 1.918 GHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 1.91502243 GHz -59.87 dBm 06.86.2923	M1 1 1.91500038 GHz -37.07 dBm
Measuring Measuring Measuring	Measuring Measuring Measuring
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 C C Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz C	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 T Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz
Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100
1Rm AvgPwr 1R1	●1Rm AvgPwr M1[1] -35.53 dBm
0 d8m 1.915019130 GHz	0 dBm
-10 dBm	-10 d8m-
-20 dam 01 -19.000 dam	-20 dBm 01 -19.000 dBm
-30 dBm	-30 dBm-1/1
-40 dBm	- 10 dom
-50 d8m-	-50 dBm-
-60 dBm	-60 dBm-
-70 dBm	-70 dBm-
-80 dBm	-90 dBm
Start 1.915 GHz 20000 pts Stop 1.918 GHz Marker	Start 1.915 GHz 20000 pts Stop 1.918 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 1.91501913 GHz -55.32 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 1.91529273 GHz -35.53 dBm
Measuring 10 18:00 400 96.05.2023	Measuring 1012145
Date: 6.JUN.2023 10:13:01	Date: 6.JUN.2023 10:12:45

Lower 700M Band Downlink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
Spectrum 2 (8) Spectrum 3 (8) Spectrum 4 (8)	Spectrum 2 🛞 Spectrum 3 🕱 Spectrum 4 🕱
Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Caunt 100/100 IRm AvgPwr	Count 100/100 P1Rm AvgPwr
M1[1] -65.23 dBm	M1[1] -57.55 dBm
-10 d8m 727.9793530 MHz	-10 dBm 727.9816930 MHz
-20 dBm-01 -19.000 dBm	-20 dBm-01 -19.000 dBm-
-30 dBm	-30 dBm
-40 dBm	-40 dBm-
-50 dBm	-50 d8m
-60 dBm	-60 dBm
-70 dBm	-70 dBm
-80 dBm-	-80 dBm
-90 dBm	-90 dBm
Start 727.7 MHz 20000 pts Stop 728.0 MHz	Start 727.7 MHz 20000 pts Stop 728.0 MHz
Marker	Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 727.979353 MHz -65.23 dBm -65.23 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 727.981693 MHz -57.55 dBm
Measuring 102124	Neasuring 102134
Date: 5.JUN.2023 10:21:24	Date: 5.JUN.2023 10:21:35
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 X Spectrum 4 X X Ref Level 0.00 d8m Offset 0.50 d8 RBW 30 kHz V	Spectrum Spectrum 2 X Spectrum 3 X Spectrum 4 X Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz
Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
●1Rm AvgPwr	●1Rm AvgPwr
-10 dBm	-10 d8m
-20 dBm 01 -19.000 dBm	-20 dBm D1 -19.000 dBm
-30 dBm	-30 dBm
-40 dBm-	-40 dBm-
-50 dBm-	-50 dBm-
-60 dBm	-60 dBm
-70 dBm	-70 dBm
-90 dBm	-80 dBm
-90 d8m	-90 dam
-40 000	*40 00II
Start 727.7 MHz 20000 pts Stop 728.0 MHz Marker	Start 727.7 MHz 20000 pts Stop 728.0 MHz Marker
Type Ref Trc X-value Y-value Function Function Result	Type Ref Trc X-value Y-value Function Function Result
M1 1 727.891618 MHz -61.99 dBm Measuring 10000 1000 1000 1000 1000 1000 1000	M1 1 727.988968 MHz -60.73 dBm Neasuring 1000 000000000000000000000000000000
Date: 5.JUN.2023 10:20:52	Date: 5.JUN.2023 10:20:41
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Tmp Ref Level 20.00 dBm Offset 0.50 dB ■ RBW 50 kHz Tmp	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Employed Ref Level 20.00 dBm Offset 0.50 dB RBW 50 kHz Image: Control of the second seco
Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep
Caunt 100/100 IRm AvgPwr	Count 100/100 IRm AvgPwr
10 dBm	10 dBm
0 dBm	0 dBm
-10 dBm-	-10 dBm
720 dgm 01 -19,000 d8m	720 dBm-01 -19,000 dBm-
+30 dBm	+30 dBm
-40 dBm-	+40 dBm-
-50 dBm	-50 dBm-
M1	-00 dam
162.480 mer and a second	
-70 dBm-	-70 dBm-
Start 727.7 MHz 20000 pts Stop 728.0 MHz	Start 727.7 MHz 20000 pts Stop 728.0 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 727.854043 MHz -59.91 dBm	M1 1 727.975318 MHz -60.90 dBm
Neasuring 102623	Neasuring 1019549-3927
Date: 5.JUN.2023 10:26:23	Date: 5.JUN.2023 10:19:51

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum 2 🛞 Spectrum 3 🕱 Spectrum 4 🕱	Spectrum 2 🛞 Spectrum 3 🛪 Spectrum 4 🛪
Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Count 100/100 Rm AvgPwr	Count 100/100 PIRm AvgPwr
M1[1] -59.30 dBm 746.0198530 MHz	M1[1] -53.47 dBm 746.0205580 MHz
-10 dBm	-10 dBm
-20 dBm D1 -19.000 dBm	-20 dBm-01 -19.000 dBm-
-30 dBm	-30 dBm
-40 dBm	-40 dBm
-50 dBm	-50 dBm
-60 dB	60 dBm
70 BBm m m m m m m m m m m m m m m m m m	+70 dBm
+80 dBm	+80 dBm
-90 dBm	-90 dBm
Start 746.0 MHz 20000 pts Stop 746.3 MHz Marker	Start 746.0 MHz 20000 pts Stop 746.3 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 746.019853 MHz -59.38 dBm -59.38 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 746.020558 MHz -53.47 dBm
MI I 746.019653 MHz -59.36 dbm Measuring Measuring	M1 1 746.020556 MH2 -53.47 dbm
Date: 5.JUN.2023 10:22:30	Date: 5,JUN.2023 10:22:13
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
Spectrum Spectrum 2 (3) Spectrum 3 (3) Spectrum 4 (3)	Spectrum 2 (Spectrum 3 (Spectrum 4 (Spectr
Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep
Count 100/100 PIRm AvgPwr	Count 100/100 PIRm AvgPwr
M1[1] -60.90 dBm	M1[1] ~59.69 dBm
-10 dBm	-10 dBm 746.0094130 MHz
-20 dBm 01 -19.000 dBm	-20 dBm 01 -19.000 dBm
-30 dBm	-30 dBm
-40 d8m	-40 d8m
-50 dBm	-50 dBm
-60 dBm	all the manual to and another the second of
+70 dBm	+70 dBm
-80 dBm	-80 dBm
-90 dBm	-90 dBm
Start 746.0 MHz 20000 pts Stop 746.3 MHz Marker	Start 746.0 MHz 20000 pts Stop 746.3 MHz Marker
Type Ref Trc X-value Y-value Function Function Result	Type Ref Trc X-value Y-value Function Function Result
M1 1 746.071678 MHz -60.90 d8m Measuring 95.86.2823 102317	M1 1 746.009413 MHz -59.69 dBm Neasuring 1000000 100000000000000000000000000
Date: 5.JUN.2023 10:23:38	Date: 5.JUN.2023 10:23:52
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Spectrum 2 8 Spectrum 3 8 Spectrum 4 8	Spectrum 2 8 Spectrum 3 8 Spectrum 4 8
Ref Level 20.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep	Ref Level 20.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep
Count 100/100 Rm AvgPwr	Count 100/100 Rm AvgPwr
M1[1] -60.73 dBm 746.000000 MHz	M1[1] -60.95 dBm 746.1518680 MHz
10 dBm	10 dBm
0 dBm-	0 dBm-
-10 dBm	-10 dBm
-20 dBm D1 -19.000 dBm	-20 dem 01 -19.000 dem
-30 d8m	-30 dBm
-40 dBm-	-40 dBm-
-50 d8m	-50 dBm
1 7-60 dBm	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-70 dBm-	-70 dBm-
Start 746.0 MHz 20000 pts Stop 746.3 MHz Marker	Start 746.0 MHz 20000 pts Stop 746.3 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 746.000008 MHz -60.73 dBm -60.73 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 746.151869 MHz -60.95 dBm
M1 1 /46.000008 MH2 -60.73 dbm Measuring W 95.66.2023 18:25.94	M1 1 /40.151868 MH2 -60.95 dbm Measuring Martine 4/0 95.66.2023
Date: 5.JUN.2023 10:25:05	Date: 5.JUN.2023 10:24:38

Upper 700M Band Downlink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
Spectrum 2 Spectrum 3 Spectrum 4 S	Spectrum 2 (3) Spectrum 3 (3) Spectrum 4 (3)
Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Made Sweep
Caunt 100/100 IRm AvgPwr	Count 100/100 IRm AvgPwr
M1[1] -61.56 dBm 745.9984330 MHz	M1[1] -52.16 dBm 745.9806130 MHz
-10 dBm-	-10 dBm
-20 dBm 01 -19.000 dBm	-220 dBm-01 -19.000 dBm-
-30 dBm	-30 dBm
-40 dBm	-40 dBm
-50 dBm	-50 dBm
-60 dBm	-60 d8m
20d8man martine and a second s	JZA dBO
-80 dBm	-80 dBm
-90 d8m	-90 dBm
Start 745.7 MHz 20000 pts Stop 746.0 MHz	Start 745.7 MHz 20000 pts Stop 746.0 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 745.998433 MHz -61.56 dBm 95.06.2023	M1 1 745.980613 MHz -52.16 dBm
Date: 5.JUN.2023 10:32:46	Date: 5.JUN.2023 10:32:14
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 TTT Ref Level 0.00 dem Offset 0.50 db RBW 30 kHz TTT	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Image: Construct of the sector of the
Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
(IRm AvgPwr (M1[1] -60.04 dBm	
-10 dBm 745.9838680 MHz	-10 dBm 745.9828630 MHz
-20 dam 01 -19.000 dam	-20 dam 01 -19.000 dBm
-30 dBm-	-30 dBm
-40 dBm	-40 d8m-
-50 dBm-	-50 dBm-
-50 dBm	-00 dBm
-70 dBm-	-70 dBm
-90 dBm-	-90 dBm-
-90 d8m	-90 d8m-
Start 745.7 MHz 20000 pts Stop 746.0 MHz Marker	Start 745.7 MHz 20000 pts Stop 746.0 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 745.983868 MHz -60.04 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 745.982863 MHz -57.81 dBm -57.81 dBm -57.81 dBm
Measuring 10000000000000000000000000000000000	Measuring 1031027
Date: 5.JUN.2023 10:31:22	Date: 5.JUN.2023 10:31:37
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Spectrum 2 3 Spectrum 3 3 Spectrum 4 3	Spectrum 2 Spectrum 3 Spectrum 4 S
Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep	Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep
Caunt 100/100 IRm AvgPwr	Count 100/100 IRm AvgPwr
0 d8m M1[1]59,67 d8m745,9699330 MHz	0 d8m
-10 dBm	-10 dBm
-30 dBm	-30 dBm
+40 dBm-	-40 dBm
-50 dBm	-50 dBm M1
160 dBm	-60.480
-70 dBm	-70 dBm-
-80 d8m	-80 d8m
Start 745.7 MHz 20000 pts Stop 746.0 MHz	Start 745.7 MHz 20000 pts Stop 746.0 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 745.969933 MHz -59.67 dBm Measuring 10549203	M1 1 745.954753 MHz -60.03 dBm 90.64.225
Date: 5.JUN.2023 10:42:38	Date: 5.JUN.2023 10:42:26
NELES STRUCTURE EVITEEDD	where constants and 10146160

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum 2 (2) Spectrum 3 (2) Spectrum 4 (2)	Spectrum 2 (2) Spectrum 3 (2) Spectrum 4 (2)
Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 dBm Offset 0.50 dB RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Mode Sweep
Caunt 100/100 IRm AvgPwr	Count 100/100 FIRm AvgPwr
-10 dBm	-10 dBm
-20 dBm	
	-20 dBm-01 -19.000 dBm-
-30 dBm	-30 d8m
-40 dBm-	-40 dBm-
-50 dBm	-50 dBm
-60 dBm	vertering
30 dem have have have have have have have have	-70 dBm
-80 dBm	-80 dBm
-90 dBm	-90 dBm
Start 757.0 MHz 20000 pts Stop 757.3 MHz	Start 757.0 MHz 20000 pts Stop 757.3 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 757.017723 MHz -65.30 dBm	M1 1 757.010253 MHz -57.29 dBm
Measuring Measuring	Measuring Measuring Measuring
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 S	Spectrum Spectrum 2 X Spectrum 3 X Spectrum 4 X
Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz Att 40 dB SWT 20 ms YBW 100 kHz Mode Sweep
e 1Rm AvgPwr	Count 100/100 FIRm AvgPwr
-10 dBm	-10 dBm
-20 dem 01 -19.000 dem	
-30 dBm	-30 d8m-
-40 d8m	-40 dBm-
-50 d8m-	-50 dBm-
-60 dBm	269,2870 to a margin and a
-70 d8m-	-70 dBm-
-80 dBm	-80 dBm
-90 dBm	-90 dBm-
Start 757.0 MHz 20000 pts Stop 757.3 MHz	Start 757.0 MHz 20000 pts Stop 757.3 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 757.146393 MHz -62.30 dBm	M1 1 757.022853 MHz -60.36 dBm
Measuring Measuring	Measuring Measuring Market and Ma
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Image: Comparison of the spectrum 4 Image	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Image: Construct a spectrum 4 Image: Construm 4 Image: Construm 4 Image: Construm 4 Image: Construm 4 Image: Construm4 Image: Construm4 Image: Conspe
Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Caunt 100/100	Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100
IPm AvgPwr M1[1] -60.13 dBm	●1Rm AvgPwr M1[1] -60.90 dBm
0 d8m 757.1692980 MHz	0 d8m 757,0097730 MHz
-10 dBm	-10 dBm-
-20 dum 01 -19.000 dBm	-20 dsm 01 -19.000 dBm
-30 dBm-	-30 dBm-
-40 dBm	
-50 d8m	-50 dBm
where the second s	
-70 dBm	-70 dBm
-80 d8m	-80 d8m-
Start 757.0 MHz 20000 pts Stop 757.3 MHz	Start 757.0 MHz 20000 pts Stop 757.3 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 757.169298 MHz -60.13 dBm 05.06.2921	M1 1 757.009773 MHz -60.90 dBm
Date: 5.JUN.2023 10:38:08	Date: 5.JUN.2023 10:38:40

Cellular Band Downlink

Spectrum Spectrum Comparison Spectrum Comparison <th< th=""><th></th></th<>	
M 40 db SWT 20 ms W W 10 Hz M dde Sweep Const 10/200 MIL13 64 9 1 dtt 64 9 1 dtt 66 9 0 0 0 dtt 66 9 0 0 0 dtt 66 9 0 0 0 dttt	
Bits Aug/Per Mi[] -64 31 dm 10 dm Mi[] -64 31 dm 10 dm Mi[] Bits Aug/Per 20 dm Mi[] Bits Aug/Per Bits Aug	
10 dbm 0 dbm <t< th=""><th></th></t<>	
20 dm 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th></th>	
30 dbm	
40 dBm	
60 dbm 40 dbm	
-00 dbm	
7-0 dim	~
-00 d8m	_
-90 dbm	-
Start 868.7 MHz 20000 pts Stop 869.0 MHz Marker Y-value Function Function Result Marker Yea Ref Trc X-value Function Result Marker Yea Ref Level No Function Result Neasuring Date: 5.JUBL2023 10:47:44 Left Side-CDMA-Pre AGC Left Side-CDMA-Above AGC Spectrum 2 00 dm Offset 0.50 db s Ref 20 30 db s Spectrum 3 (Spectrum 4 (Strue 10.00 dbm Offset 0.50 db s Ref 20 30 db s) Att 40 db SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100 Spectrum 2 01 -19,000 dbm Milij Gold 20 - 00 dbm Milij Gold 20 - 00 dbm -20 dbm Marker Milij Gold 20 - 00 dbm Milij Gold 20 - 00 dbm -20 dbm Marker Milij Gold 20 - 00 dbm Mi	
Marker Marker Type Ref Y-value Function Function Result M1 1 066.090753 MHz -64.91 dBm Function Func	-
Type Ref Trc X-value Function Function Result M1 1 060.999753 MHz -64.91 dBm Measuring Weasuring Mile Date: 5.JTRI.2023 10148:09 Measuring Mile Mile -55.10 dBm Measuring Mile Type [Ref Trc X-value Function Result M1 1 060.999753 MHz -55.10 dBm Measuring Mile Date: 5.JTRI.2023 10148:09 Measuring Mile Mi	IHz
Neasuring Neasuring <th< th=""><th></th></th<>	
Date: 5.JTRI.2023 10:49:09 Date: 5.JTRI.2023 10:49:04 Left Side-CDMA-Pre AGC Spectrum 2 © Spectrum 3 © Spectrum 4 © © Ref Level 0.00 dBm Offset 0.50 db RBW 30 KH2 Att do dB SWT 20 ms VBW 100 KH2 Mode Sweep Count 100/100 © IPM AvgPwr M1[1] -61.07 dBm -10 dBm -19.000 dBm M1[1] -61.07 dBm -30 dBm -19.000 dBm -11.19.000 dBm -11.19.000 dBm -30 dBm -19.000 dBm -11.19.000 dBm -11.19.000 dBm -30 dBm -1.19.000 dBm -1.19.000 dBm -1.19.000 dBm -30 dBm -1.19.000 dBm -1.19.000 dBm -1.19.000 dBm	2023
Left Side-CDMA-Pre AGC Left Side-CDMA-Above AGC Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Spectrum 4 Spectrum 3 Spectrum 4 Spectrum 4 Spectrum 3 Spectrum 4	1/143
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 Spectrum 4 Spectrum 3 Spectrum 4 Spectrum 4 Spectrum 3 Spectrum 4 Spectrum	
Ref Level 0.00 dbm Offset 0.50 db RBW 30 Hz Att 40 db SWT 20 ms VBW 100 Hz Mode Sweep Count 100/100 Image: Count	
Att 40 d8 SWT 20 ms ● VBW 100 1Hz Mode Sweep Count 100/100 ●12m AvgPwr ●12m AvgPwr ●12m AvgPwr ●12m AvgPwr -10 dBm 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	T
• IPM AvgPer • 10 dBm • IPM AvgPer • IPM AvgPer • IPM AvgPer • IPM AvgPer • 10 dBm • IPM AvgPer • IPM AvgPer • IPM AvgPer • IPM AvgPer • 20 dBm • IPM AvgPer • IPM AvgPer • IPM AvgPer • IPM AvgPer • 20 dBm • IPM AvgPer • IPM AvgPer • IPM AvgPer • IPM AvgPer • 20 dBm • IPM AvgPer • IPM AvgPer • IPM AvgPer • IPM AvgPer • 20 dBm • IPM AvgPer • IPM • IPM AvgPer • IPM AvgPer • -20 dBm • IPM AvgPer • IPM AvgPer • IPM AvgPer • IPM AvgPer • -30 dBm • IPM AvgPer • IPM AvgPer	
-10 dBm	dBm
-30 dBm	
-40 dBm	
-50 dBm	
-50 dBm	
-60 dBm /60 d	
-70 dBm	
-80 dBm	
-90 dBm	_
Start 868.7 MHz 20000 pts Stop 869.0 MHz Stop 869.0 MHz 20000 pts Stop 869.0 MHz Marker <	IHz
Type Ref Trc X-value Y-value Function Function Result M1 1 866.844128 MHz -61.87 dBm M1 1 866.965883 MHz -60.95 dBm	
	2023
Date: 5.JUN.2023 10:47:01 Date: 5.JUN.2023 10:47:11	
Left Side-WCDMA-Pre AGC Left Side-WCDMA-Above AGC	
Spectrum 2 Spectrum 3 Spectrum 4 Spectrum 2 Spectrum 3 Spectrum 4	
RefLevel 10.00 dBm Offset 0.50 dB RBW 50 kHz RefLevel 10.00 dBm Offset 0.50 dB RBW 50 kHz	
● Att 40 dB SWT 20 ms ● VBW 200 kHz Mode Sweep Count 100/100 ● 12m AvgPwr ● 12m AvgPwr	_
M1[1] -59.62 dBm B6B.0057030 MHz] 868.0057030 MHz	dBm
0 dBm	-inte
-10 dBm	-
-20 dBm 01 -19.000 dBm 01 -19.000 dBm	
-30 dBm	_
-40 d8m	
-50 dBm	_
	-
-70 dBm	1
-80 d8m	
Start 868.7 MHz 20000 pts Stop 869.0 MHz Start 868.7 MHz 20000 pts Stop 869.0 Marker	
Type Ref Trc X-value Y-value Function Function Result M1 1 868.806703 MHz -59.62 dBm M1 1 868.806703 MHz -59.60 dBm Function Result	IHz
AMA 05.06.2023	1Hz
Date: 5.JUN.2023 10:46:24 Date: 5.JUN.2023 10:46:07	1Hz

Right Side-GSM-Pre AGC	Right Side-GSM-Above AGC
Spectrum 2 (8) Spectrum 3 (8) Spectrum 4 (8)	Spectrum 2 (X) Spectrum 3 (X) Spectrum 4 (X)
Ref Level 0.00 dbm Offset 0.50 db RBW 3 kHz Att 40 db SWT 20 ms VBW 10 kHz Mode Sweep	Ref Level 0.00 d8m Offset 0.50 d8 RBW 3 kHz Att 40 d8 SWT 20 ms VBW 10 kHz
Count 100/100 P1Rm AvgPwr	Count 100/100 PIRm AvgPwr
M1[1] -65,47 dBm 894,0200480 MHz	M1[1] -56.38 dBm 894.0181730 MHz
-10 d8m	-10 dBm
-20 dsm - D1 -19,000 d8m	-20 dam-01 -19.000 dam-
-30 dBm	-30 dBm
-40 dBm	-40 dBm
-50 dBm-	-50 dgrp
-60 dBm	Con de inversion and and a second a s
NO dem many many many many many many many man	-70 d8m
-80 dBm	-80 dBm-
-90 dBm	-90 dBm
Start 894.0 MHz 20000 pts Stop 894.3 MHz	Start 894.0 MHz 20000 pts Stop 894.3 MHz
Marker Type Ref Trc X-value Y-value Function Function Result	Marker Type Ref Trc X-value Y-value Function Function Result
M1 1 894.020048 MHz -65.47 dBm Measuring	M1 1 894.018173 MHz -56.38 dBm Measuring 1956-282 197695
Date: 5.JUN.2023 10:50:28	Date: 5.JUN.2023 10:50:55
Right Side-CDMA-Pre AGC	Right Side-CDMA-Above AGC
Spectrum 2 & Spectrum 3 & Spectrum 4 &	Spectrum 2 & Spectrum 3 & Spectrum 4 &
Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz	Ref Level 0.00 dBm Offset 0.50 dB RBW 30 kHz
Count 100/100	Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
1Rm AvgPwr M1[1] -62.78 dBm	1Rm AvgPwr M1[1] -63.48 dBm
-10 d8m	-10 dBm
-2u dsm 01 -19.000 d8m	-20 dsm 01 -19,000 d8m
-30 dBm	-30 dBm
-40 dBm	-40 dBm
-50 d8m-	-50 dBm
-60 dBm	-60 dBm
-70 dBm-	-70 dBm
-80 dBm-	-80 dBm-
-90 dBm-	-90 dBm
Start 894.0 MHz 20000 pts Stop 894.3 MHz	Start 894.0 MHz 20000 pts Stop 894.3 MHz
Marker	Marker
M1 1 894.088913 MHz -62.78 dBm	M1 1 894.144863 MHz -63.48 dBm
Measuring 1054-2023	Neasuring 1054:7823
Date: 5.JUN.2023 10:54:48	Date: 5.JUN.2023 10:54:17
Right Side-WCDMA-Pre AGC	Right Side-WCDMA-Above AGC
Spectrum Spectrum 2 Spectrum 3 Spectrum 4 S	Spectrum Spectrum 2 Spectrum 3 Spectrum 4 S
Ref Level 10.00 dbm Offset 0.50 db BBW 50 kHz Att 40 db SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100 Count 100/100 SWE SWE SWE SWE SWE	Ref Level 10.00 dbm Offset 0.50 B BBW 50 kHz Att 40 40 SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100 Mode Sweep
Obar 100/100 OF The second s	61Rm AvgPwr M1[1] -61.03 dBm
0 d8m	0 d8m
-10 dBm	-10 dBm
-20 dsm 01 -19.000 dBm	-20 dem 01 -19.000 dBm
-30 dBm	-30 dBm-
-30 dam	-40 dBm
-50 dBm-	-50 dBm
M1	NI
20 day	
-70 d8m-	-70 dBm
-80 d8m	-80 dBm-
Start 894.0 MHz 20000 pts Stop 894.3 MHz Marker	Start 894.0 MHz 20000 pts Stop 894.3 MHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 894.112313 MHz -60.53 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 894.091253 MHz -61.03 dBm
M1 1 074.112313 MHz *00.53 GBM Neasuring 100562023 105559	M1 1 094.091253 MH2 *01.03 GBM Measuring 05.04.2023 1855455
Date: 5.JUN.2023 10:55:59	Date: 5.JUN.2023 10:56:15

AWS-1 Band Downlink

Left Side-GSM-Pre AGC	Left Side-GSM-Above AGC
Spectrum Spectrum 2 🕱 Spectrum 3 🕱 Spectrum 4 🕱	Spectrum Spectrum 2 (8) Spectrum 3 (8) Spectrum 4 (8)
Ref Level 0.00 dem Offset 0.50 de RBW 3 kHz Att 40 dB SWT 20 ms VBW 10 kHz Count 100/100 Count 200/100 SWE 20 ms VBW 10 kHz	RefLevel 0.00 dem Offset 0.50 de RBW 3 kHz ● Att 40 40 SWT 20 ms • VBW 10 kHz Mode Sweep Count 100/100
Rm AvgPwr M1[1] -61.93 d0m	IRm AvgPwr M1[1] -54.46 dBm
-10 dBm 2.1099821250 GHz	-10 dBm
-20 dBm 01 -19.000 dBm	-20 dBm 01 -19.000 dBm
-30 dBm-	-30 dBm-
-40 dBm-	-40 dBm-
-50 dBm-	-50 dBm
-60 dBm	-60 dBm-
~79 dBmm mar and a barren and a static and a second a s	220.480 martin and a second and a
-80 dBm	-80 dBm
-90 dBm	-90 dBm
Start 2.109 GHz 20000 pts Stop 2.11 GHz Marker	Start 2.109 GHz 20000 pts Stop 2.11 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 2.109982125 GHz -61.93 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 2.109999875 GHz -54.46 dBm X-yalue Function Function Result
Measuring (11/01/19	Measuring 11:01:05
Date: 5.JUN.2023 11:01:19	Date: 5.JUN.2023 11:01:05
Left Side-CDMA-Pre AGC	Left Side-CDMA-Above AGC
Spectrum Spectrum 2 Image: Spectrum 3 Image: Spectrum 4 Image: S	Spectrum Spectrum 2 (Spectrum 3 (Spectrum 4 ()) Ref Level 0.00 dbm Offset 0.50 db @ RBW 30 kHz
Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100	Att 40 dB SWT 20 ms VBW 100 kHz Mode Sweep Count 100/100
IPm AvgPwr M1[1] -50.75 dBm	●1Rm AvgPwr M1[1] -62.56 dBm
-10 dBm	-10 dBm
-20 dBm 01 -19.000 dBm	-20 dBm-01 -19.000 dBm-
-30 dBm	-30 dBm-
-40 dBm	-40 dBm
-50 dBm	-50 dBm
NGB dBm - warmen along the second of the sec	-60 dBm
-70 dBm	-70 dBm-
-80 dBm	-80 dBm
-90 dBm	-90 dBm
Start 2.109 GHz 20000 pts Stop 2.11 GHz Marker <td< th=""><th>Start 2.109 GHz 20000 pts Stop 2.11 GHz Marker </th></td<>	Start 2.109 GHz 20000 pts Stop 2.11 GHz Marker
Type Ref Trc X-value Y-value Function Function Result M1 1 2:109554275 GHz -58.75 dBm -58.75 dBm -58.75 dBm	Type Ref Trc X-value Y-value Function Function Result M1 1 2.109676475 GHz -62.56 dBm -62.56 dBm
Measuring 🖬 🚧 05.06.2023	Measuring 95.66.2023 11.00.03
Date: 5.JUN.2023 11:00:16	Date: 5.JUN.2023 11:00:35
Left Side-WCDMA-Pre AGC	Left Side-WCDMA-Above AGC
Spectrum 3 Spectrum 2 Spectrum 3 Spectrum 4 S	Spectrum 2 (Spectrum 2 (Spectrum 4 (S))
Ref Level 10.00 dm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100	Ref Level 10.00 dBm Offset 0.50 dB RBW 50 kHz Att 40 dB SWT 20 ms VBW 200 kHz Mode Sweep Count 100/100 20 ms
Count 100/100 ●12m AvgPwr M1[1] -56.28 dBm	Count 100/100 ● IPm AvgPwr M1[1] -60.32 dBm
0 dBm 2.1098949250 GHz	0 d8m 2,1095434750 GHz
-10 dBm	-10 dBm-
-20 dam-01 -19.000 dBm-	-20 dBm 01 -19.000 dBm
-30 dBm-	-30 dBm
-40 d8m	-40 dBm
-50 d8m	-50 d8m
-60 dBm	199,489,700 - 200, 400 - 200, 400 - 200, 400 - 200, 400 - 200, 400 - 200, 400 - 200, 400 - 200, 400 - 200, 400
-70 dBm-	-70 dBm-
-80 d8m	-80 dBm-
Start 2.109 GHz 20000 pts Stop 2.11 GHz Marker	Start 2.109 GHz 20000 pts Stop 2.11 GHz
Marker Type Ref Trc X-value Y-value Function Function Result M1 1 2.100894925 GHz -56.28 dBm	Morker Type Ref Trc X-value Y-value Function Function Result M1 1 2.109543475 GHz -60.32 dBm Function Function Result
m1 1 2-109099925 Un2 *50.20 Ubm Neasuring 1000099925 Un2 *50.20 Ubm	M1 1 2.10/94/34/3 GHz *00.32 00m Neasuring 1 65/62/22 185/611
Date: 5.JUN.2023 10:59:32	Date: 5.JUN.2023 10:59:11