



TEST REPORT

No. I19Z61344-WMD04

for

OnePlus Technology (Shenzhen) Co., Ltd.

Smart Phone

Model Name: HD1925

FCC ID: 2ABZ2-EE143

with

Hardware Version: 46

Software Version: Oxygen OS 10.0.HD61CB

Issued Date: 2019-11-01

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S.Government.

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REPORT HISTORY

Report Number	Revision	Description	Issue Date
I19Z61344-WMD04	Rev.0	1st edition	2019-10-25
I19Z61344-WMD04	Rev.1	Adjust the EUT Voltage information.	2019-11-01

Note: the latest revision of the test report supersedes all previous version.

CONTENTS

1. TEST LABORATORY	4
1.1. INTRODUCTION & ACCREDITATION.....	4
1.2. TESTING LOCATION	4
1.3. TESTING ENVIRONMENT.....	5
1.4. PROJECT DATA	5
1.5. SIGNATURE.....	5
2. CLIENT INFORMATION.....	6
2.1. APPLICANT INFORMATION.....	6
2.2. MANUFACTURER INFORMATION.....	6
3. EQUIPMENT UNDER TEST (EUT) AND ANCILLARY EQUIPMENT (AE)	7
3.1. ABOUT EUT	7
3.2. INTERNAL IDENTIFICATION OF EUT USED DURING THE TEST	7
3.3. INTERNAL IDENTIFICATION OF AE USED DURING THE TEST	7
4. REFERENCE DOCUMENTS	8
4.1. REFERENCE DOCUMENTS FOR TESTING.....	8
5. LABORATORY ENVIRONMENT	9
6. SUMMARY OF TEST RESULTS	10
7. TEST EQUIPMENTS UTILIZED	11
ANNEX A: MEASUREMENT RESULTS.....	12
A.1 OUTPUT POWER	12
A.2 FREQUENCY STABILITY	14
A.3 OCCUPIED BANDWIDTH	17
A.4 EMISSION BANDWIDTH.....	23
A.5 BAND EDGE COMPLIANCE	29
A.6 CONDUCTED SPURIOUS EMISSION	31
A.7 PEAK-TO-AVERAGE POWER RATIO.....	47
ANNEX B: ACCREDITATION CERTIFICATE.....	48

1. Test Laboratory

1.1. Introduction & Accreditation

Telecommunication Technology Labs, CAICT is an ISO/IEC 17025:2005 accredited test laboratory under NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM (NVLAP) with lab code 600118-0, and is also an FCC accredited test laboratory (CN5017), and ISED accredited test laboratory (CN0066). The detail accreditation scope can be found on NVLAP website.

1.2. Testing Location

Location 1: CTTL(huayuan North Road)

Address: No. 52, Huayuan North Road, Haidian District, Beijing,
P. R. China 100191

1.3. Testing Environment

Normal Temperature: 15-35℃
Relative Humidity: 20-80%

1.4. Project data

Testing Start Date: 2019-08-30
Testing End Date: 2019-10-25

1.5. Signature



Dong Yuan

(Prepared this test report)



Zhang Yufeng

(Reviewed this test report)



Zhao Hui Lin

Deputy Director of the laboratory
(Approved this test report)

2. Client Information

2.1. Applicant Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address /Post: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen
Contact Person: Ariel Cheng
Contact Email: ariel.cheng@oneplus.com
Telephone: 13823398081

2.2. Manufacturer Information

Company Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address /Post: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen
Contact Person: Ariel Cheng
Contact Email: ariel.cheng@oneplus.com
Telephone: 13823398081

3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	Smart Phone
Model	HD1925
FCC ID	2ABZ2-EE143
Frequency	CDMA800MHz(BC0);CDMA1900MHz(BC1)
Antenna	Integrated
Extreme vol. Limits	3.6VDC to 4.3VDC (nominal: 3.87VDC)
Extreme temp. Tolerance	0°C to +35°C

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of CTTL.

3.2. Internal Identification of EUT used during the test

EUT ID*	IMEI	HW Version	SW Version	Date of receipt
UT05a	990013820050933	46	Oxygen OS 10.0.HD61CB	2019-08-30

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

AE ID*	Description
AE1	Battery
AE2	Battery
AE1	
Model	BLP745
Manufacturer	Sunwoda Electronic Co.,Ltd.
Capacitance	4010mAh
AE2	
Model	BLP745
Manufacturer	SUNWODA ELECTRONIC INDIA PRIVATE LIMITED
Capacitance	4010mAh

*AE ID: is used to identify the test sample in the lab internally.

4. Reference Documents

4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 24	PERSONAL COMMUNICATIONS SERVICES	V10-1-18 Edition
FCC Part 22	PUBLIC MOBILE SERVICES	V10-1-18 Edition
FCC Part 2	FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS;GENERAL RULES AND REGULATIONS	V10-1-18 Edition
ANSI/TIA-603-E	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	2016
KDB 971168 D01	Measurement Guidance for Certification of Licensed Digital Transmitters	v03r01

5. LABORATORY ENVIRONMENT

Shielding chamber did not exceed following limits along the RF testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. =20 %, Max. = 80 %

6. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(c)	Pass
2	Frequency Stability	2.1055/22.355/24.235	Pass
3	Occupied Bandwidth	2.1049(h)(i)	Pass
4	Emission Bandwidth	22.917(b)/24.238(b)	Pass
5	Band Edge Compliance	22.917(b)/24.238(b)	Pass
6	Conducted Spurious Emission	2.1057/22.917/24.238	Pass
7	Peak to Average Power Ratio	24.232(d)	Pass

The device supports two antennas (UAT or LAT). All the test items of UAT are tested while output power, occupied bandwidth and emission bandwidth of LAT are tested.

7. Test Equipments Utilized

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CALIBRATION INTERVAL	CAL DUE DATE
1	Spectrum Analyzer	FSV30	101576	R&S	1 Year	2020-05-03
2	Wireless Communications Test Set	8960(E5515C)	MY48360950	Agilent	2 Years	2020-08-29
3	Climatic chamber	SH-641	92009050	ESPEC	2 Years	2019-12-21

ANNEX A: MEASUREMENT RESULTS

A.1 OUTPUT POWER

A.1.1 Summary

During the process of testing, the EUT was controlled via Agilent Wireless Communications Test Set (8960(E5515C)) to ensure max power transmission and proper modulation.

This result is max output power conducted measurements for the EUT.

In all cases, output power is within the specified limits.

A.1.2 Method of Measurements

The EUT was set up for the max output power with pseudo random data modulation.

The power was measured with Rhode & Schwarz Spectrum Analyzer FSV30 (average).

These measurements were done at 3 frequencies, 1851.25 MHz, 1880.0 MHz and 1908.75 MHz for PCS CDMA band, 824.7MHz, 836.52MHz and 848.31MHz for CDMA 800 band (bottom, middle and top of operational frequency range) for 1x RTT and 1xEVDO .

The measurement method is from KDB 971168 D01 5.2.1:

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Set number of points in sweep $\geq 2 \times$ span / RBW.
- e) Sweep time = auto-couple.
- f) Detector = RMS (power averaging).
- g) If the EUT can be configured to transmit continuously (i.e., burst duty cycle $\geq 98\%$), then set the trigger to free run.
- h) If the EUT cannot be configured to transmit continuously (i.e., burst duty cycle $< 98\%$), then use a sweep trigger with the level set to enable triggering only on full power bursts and configure the EUT to transmit at full power for the entire duration of each sweep. Ensure that the sweep time is less than or equal to the transmission burst duration.
- i) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- j) Compute the power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with the band limits set equal to the OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

A1.3 Measurement results

UAT Measurement Results:

CDMA 800

Measurement result

Channel	Frequency(MHz)	Channel power(dBm)		
		1x RTT	1xEVDO	
			Rel0	RevA
1013	824.70	23.83	23.96	23.89
384	836.52	23.92	24.02	23.98
777	848.31	23.95	24.03	23.96

CDMA 1900

Measurement result

Channel	Frequency(MHz)	Channel power(dBm)		
		1x RTT	1xEVDO	
			Rel0	RevA
25	1851.25	24.21	23.50	23.59
600	1880.00	24.07	23.71	23.71
1175	1908.75	23.51	23.47	23.49

LAT Measurement Results:

CDMA 800

Measurement result

Channel	Frequency(MHz)	Channel power(dBm)		
		1x RTT	1xEVDO	
			Rel0	RevA
1013	824.70	23.81	23.77	23.81
384	836.52	23.94	23.89	23.86
777	848.31	23.87	23.76	23.80

CDMA 1900

Measurement result

Channel	Frequency(MHz)	Channel power(dBm)		
		1x RTT	1xEVDO	
			Rel0	RevA
25	1851.25	24.24	23.43	23.52
600	1880.00	24.02	23.41	23.48
1175	1908.75	23.91	23.38	23.45

A.2 FREQUENCY STABILITY

A.2.1 Method of Measurement

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of Agilent 8960(E5515C) Wireless Communications Test Set.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at 0°C.
3. With the EUT, powered via nominal voltage, connected to the 8960(E5515C) and in a simulated call on channel 384 for CDMA 800 and channel 600 for 1900 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10°C increments from 0°C to +30°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1 Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +30°C.
7. With the EUT, powered via nominal voltage, connected to the 8960(E5515C) and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10°C decrements from +30°C to 0°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

A.2.2 Measurement Limit

A.2.2.1 For Hand carried battery powered equipment

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.6VDC and 4.3VDC, with a nominal voltage of 3.87VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress.

For CDMA800, according to section. 22.355, frequency tolerance cab be maintained within 2.5ppm.

A.2.2.2 For equipment powered by primary supply voltage

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

For CDMA800, according to section. 22.355, frequency tolerance cab be maintained within 2.5ppm.

A.2.3 Measurement results

CDMA 800

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.6	7.33	0.0088
3.87	7.57	0.0090
4.3	-5.94	0.0071

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
0	8.28	0.0099
10	-14.32	0.0171
20	-15.02	0.0180
30	-13.46	0.0161

CDMA 1900

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.6	8.89	0.0047
3.87	16.21	0.0086
4.3	-11.34	0.0060

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
0	8.59	0.0046
10	18.95	0.0101
20	9.99	0.0053
30	7.16	0.0038

A.3 OCCUPIED BANDWIDTH

A.3.1 Occupied Bandwidth Results

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the CDMA frequency band. The table below lists the measured 99% BW.

Spectrum analyzer plots are included on the following pages.

UAT Measurement Results:

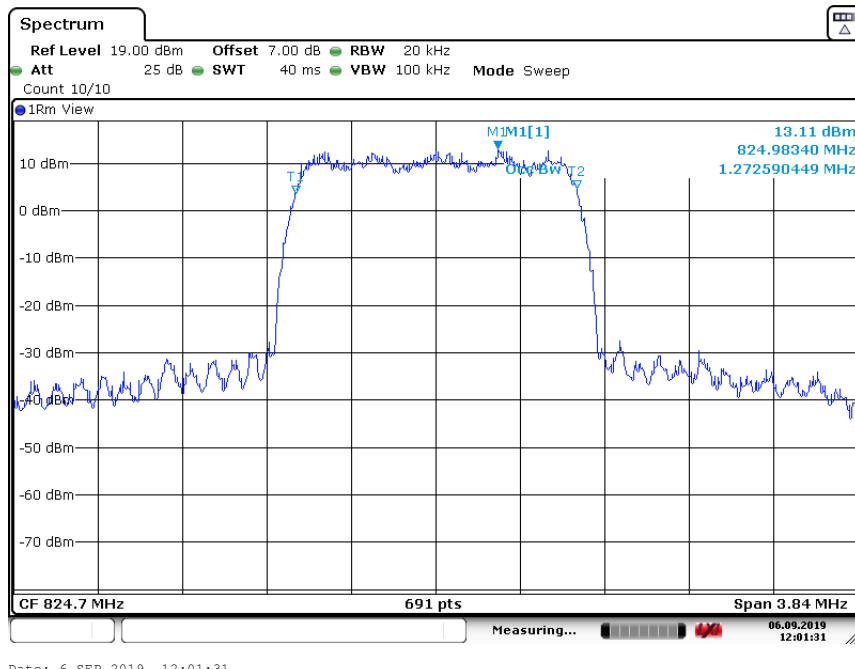
CDMA 800 (99% BW)

Channel	Occupied Bandwidth (99% BW)(MHz)
1013	1.273
384	1.273
777	1.267

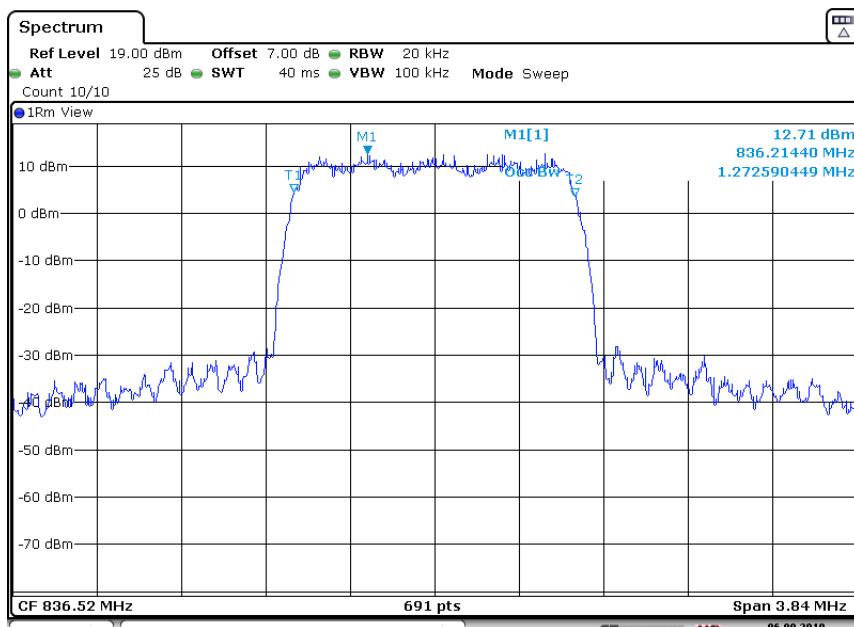
ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz

CDMA 800

Channel 1013-Occupied Bandwidth (99% BW)

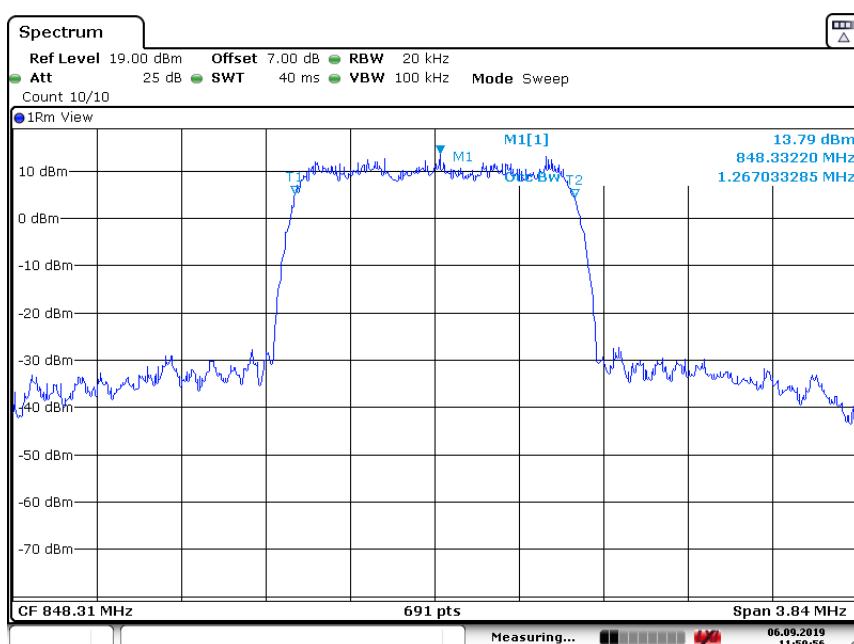


Channel 384-Occupied Bandwidth (99% BW)



Date: 6.SEP.2019 12:00:39

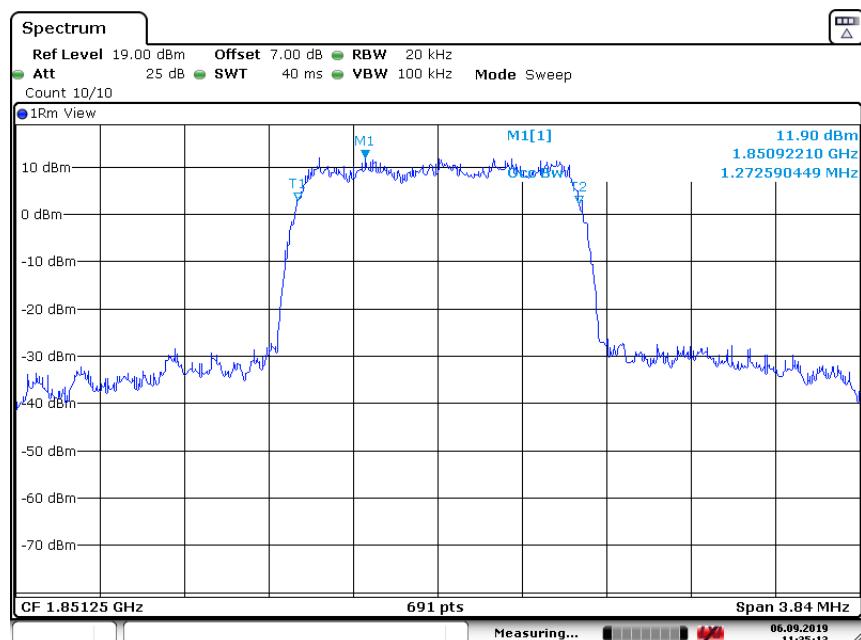
Channel 777-Occupied Bandwidth (99% BW)



Date: 6.SEP.2019 11:59:57

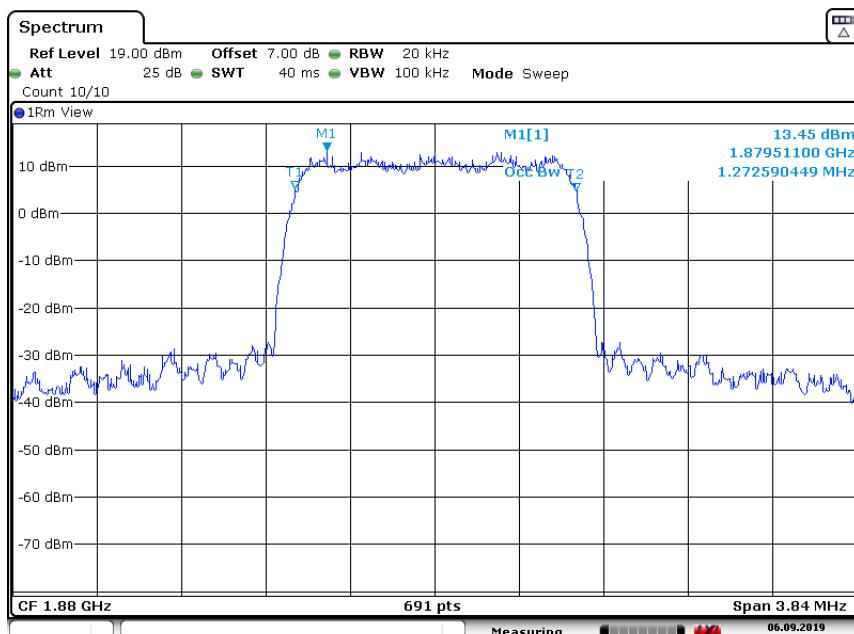
CDMA 1900(99% BW)

Channel	Occupied Bandwidth (99% BW)(MHz)
25	1.273
600	1.273
1175	1.273

ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz
CDMA 1900
Channel 25-Occupied Bandwidth (99% BW)


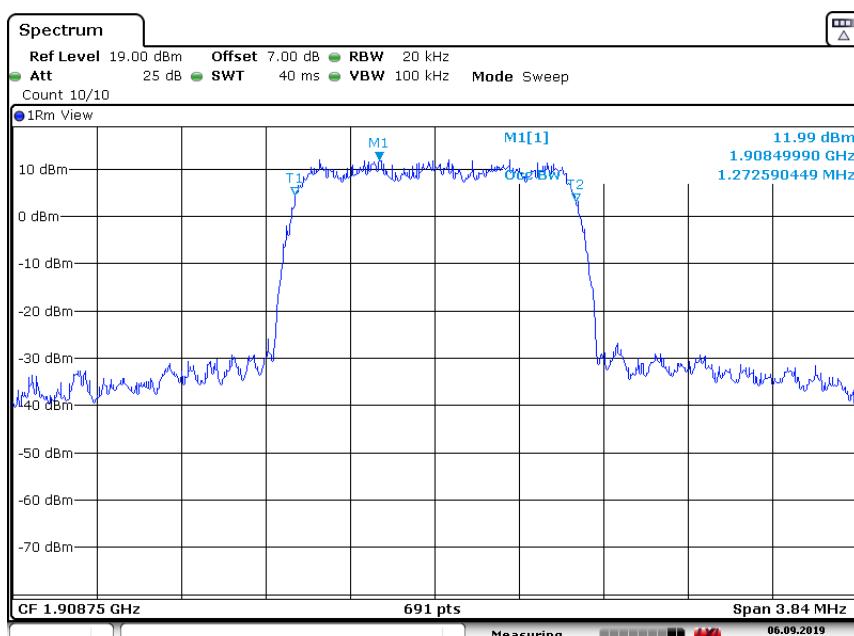
Date: 6.SEP.2019 11:35:14

Channel 600-Occupied Bandwidth (99% BW)



Date: 6.SEP.2019 11:34:15

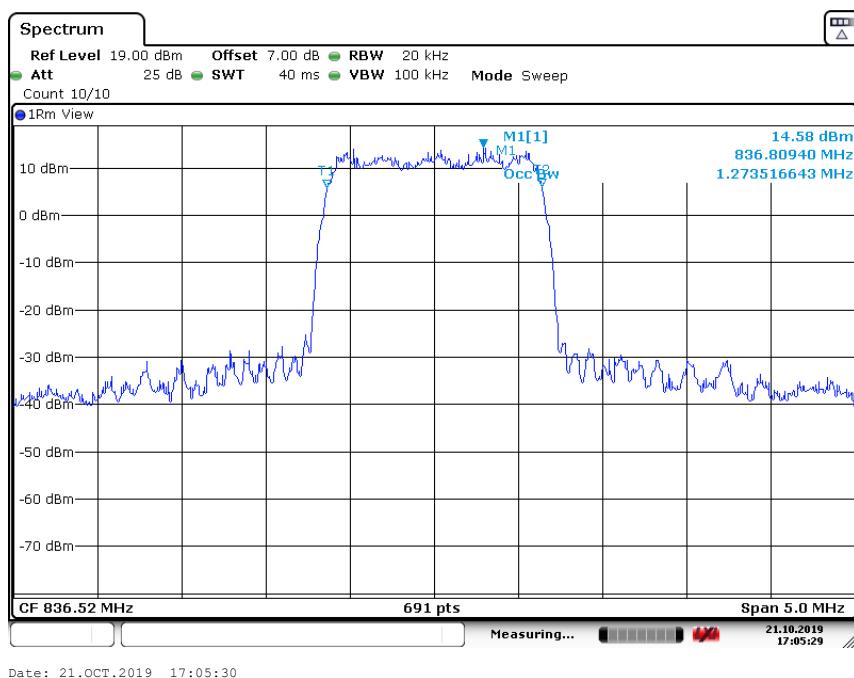
Channel 1175-Occupied Bandwidth (99% BW)



Date: 6.SEP.2019 11:36:06

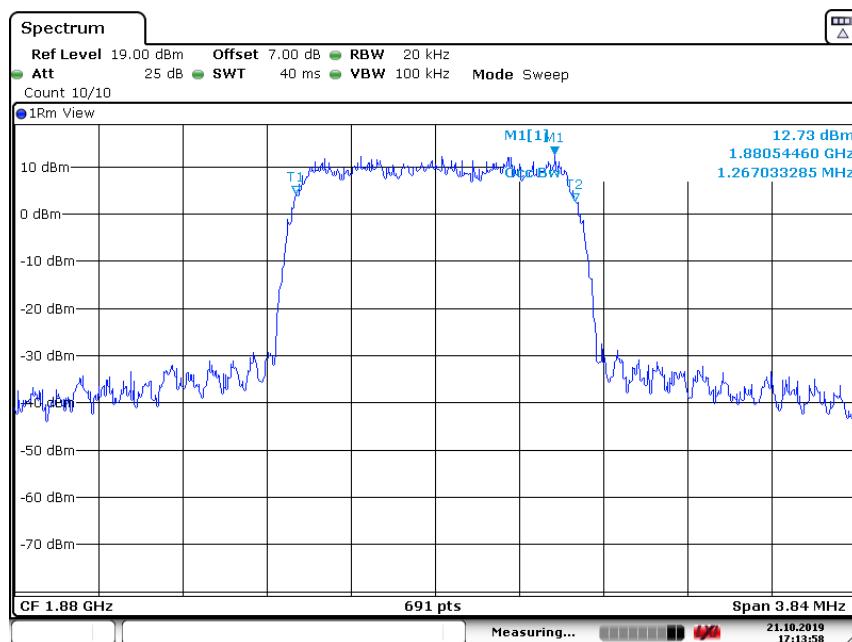
LAT Measurement Results:
CDMA 800 (99% BW)

Channel	Occupied Bandwidth (99% BW)(MHz)
384	1.274

ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz
CDMA 800
Channel 384-Occupied Bandwidth (99% BW)


CDMA 1900(99% BW)

Channel	Occupied Bandwidth (99% BW)(MHz)
600	1.267

ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz
CDMA 1900
Channel 600-Occupied Bandwidth (99% BW)


A.4 EMISSION BANDWIDTH

A.4.1 Emission Bandwidth Results

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the CDMA 800, and CDMA 1900 band. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

UAT Measurement Results:

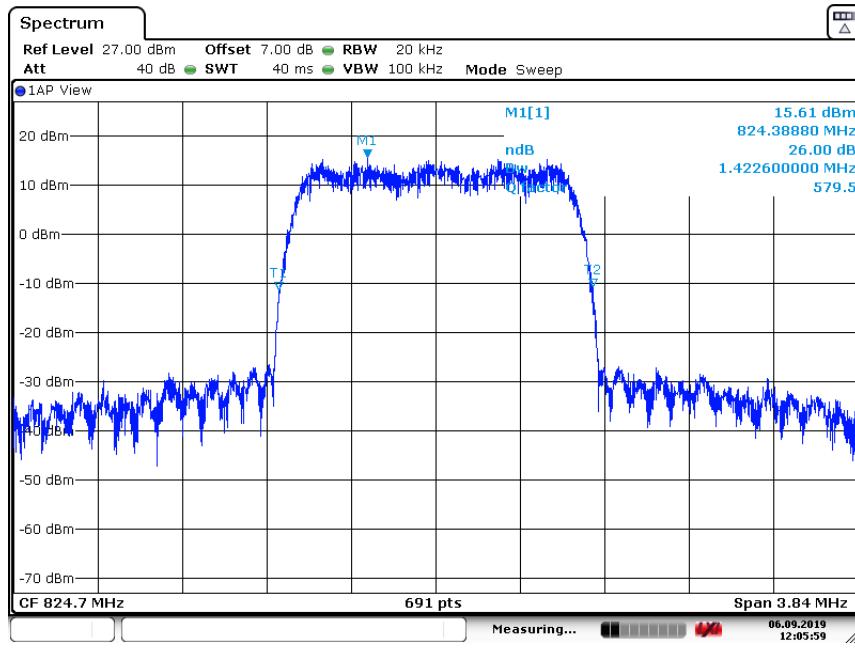
CDMA 800 (-26dBc BW)

Channel	Emission Bandwidth (-26dBc BW)(MHz)
1013	1.423
384	1.423
777	1.417

ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz

CDMA 800

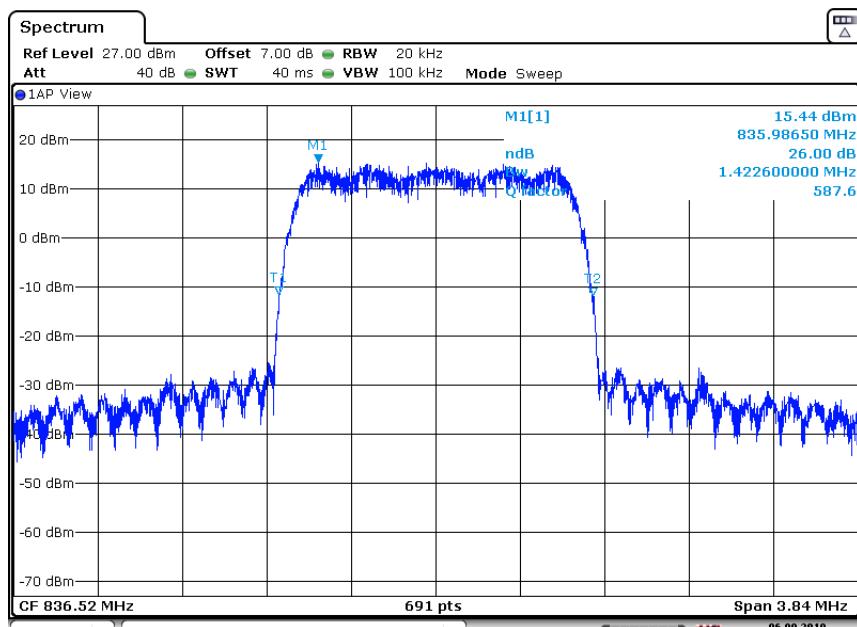
Channel 1013-Emission Bandwidth (-26dBc BW)



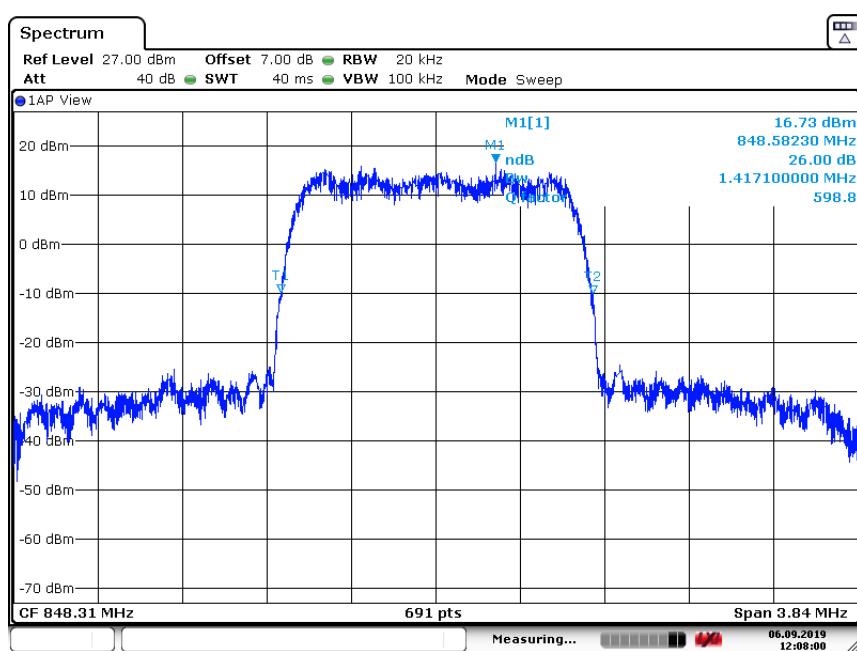
Date: 6.SEP.2019 12:06:00

06.09.2019
12:05:59

Channel 384-Emission Bandwidth (-26dBc BW)

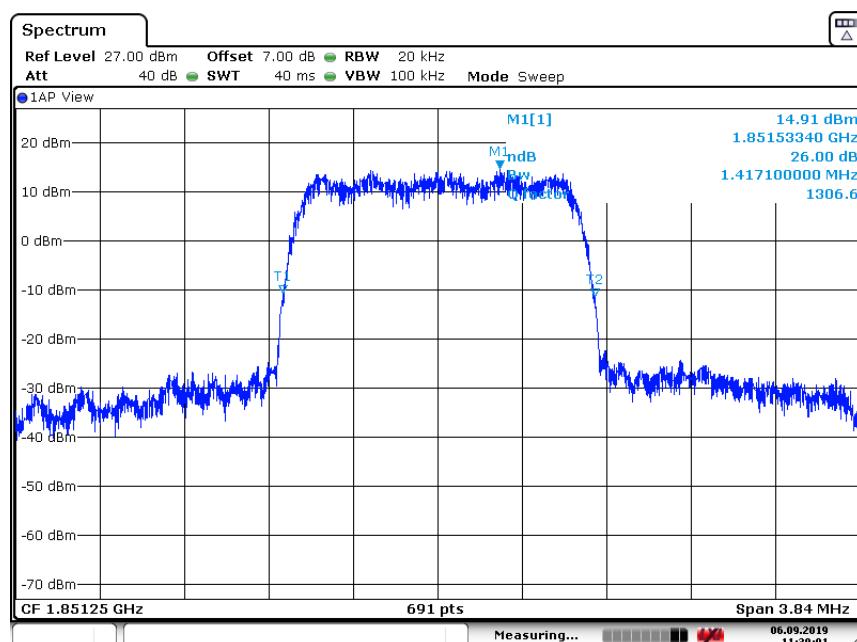


Channel 777-Emission Bandwidth (-26dBc BW)



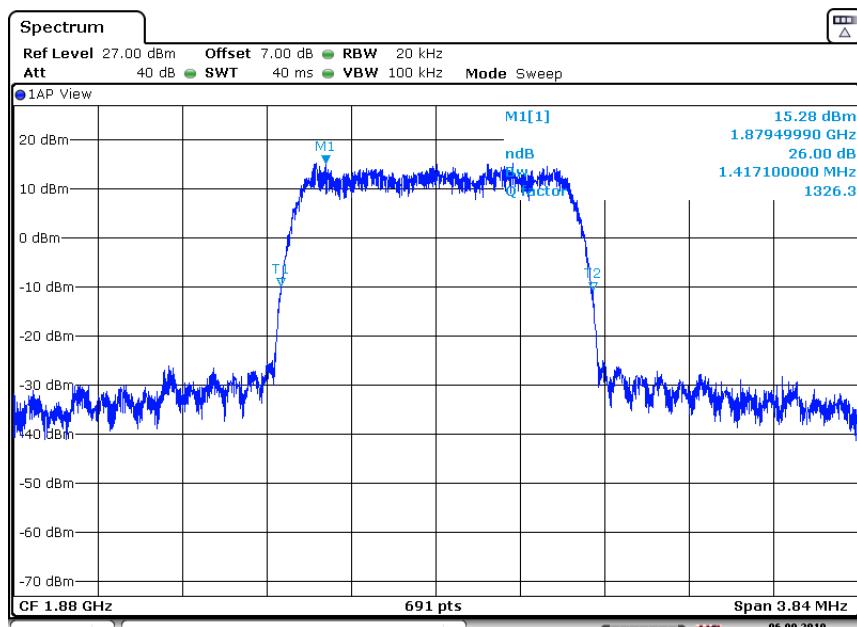
CDMA 1900 (-26dBc)

Channel	Emission Bandwidth (-26dBc BW)(MHz)
25	1.417
600	1.417
1175	1.417

ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz
CDMA 1900
Channel 25-Emission Bandwidth (-26dBc BW)


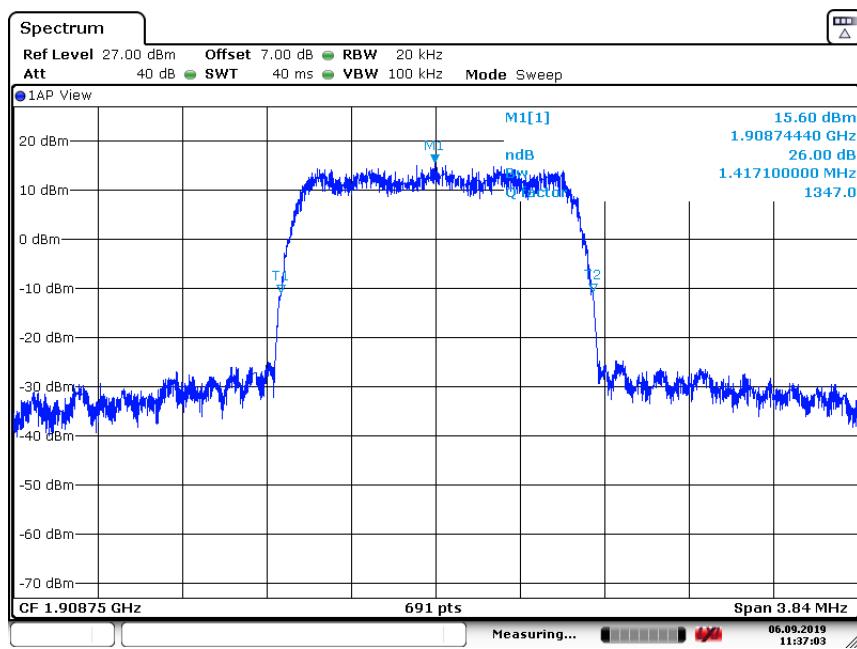
Date: 6.SEP.2019 11:39:02

Channel 600-Emission Bandwidth (-26dBc BW)



Date: 6.SEP.2019 11:38:03

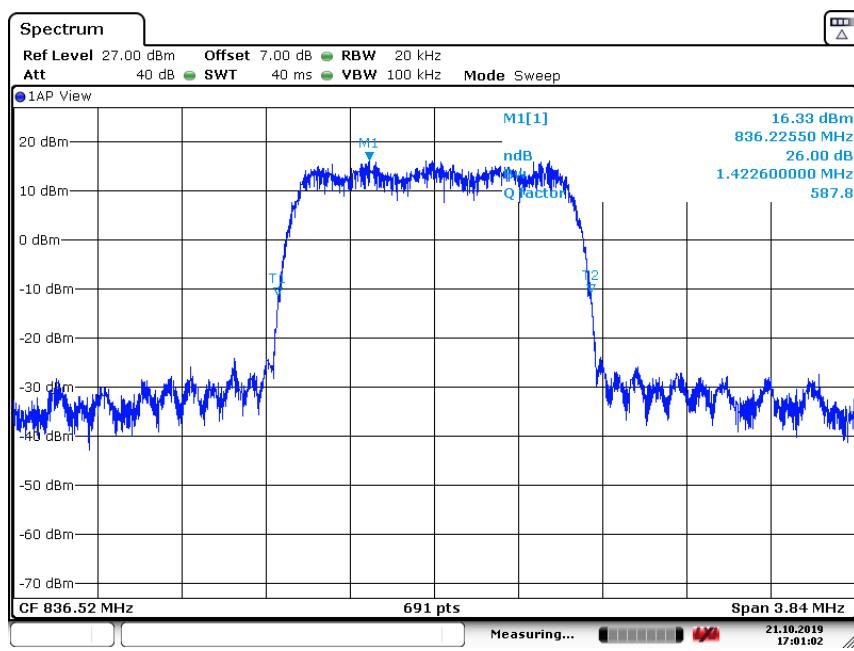
Channel 1175-Emission Bandwidth (-26dBc BW)



Date: 6.SEP.2019 11:37:03

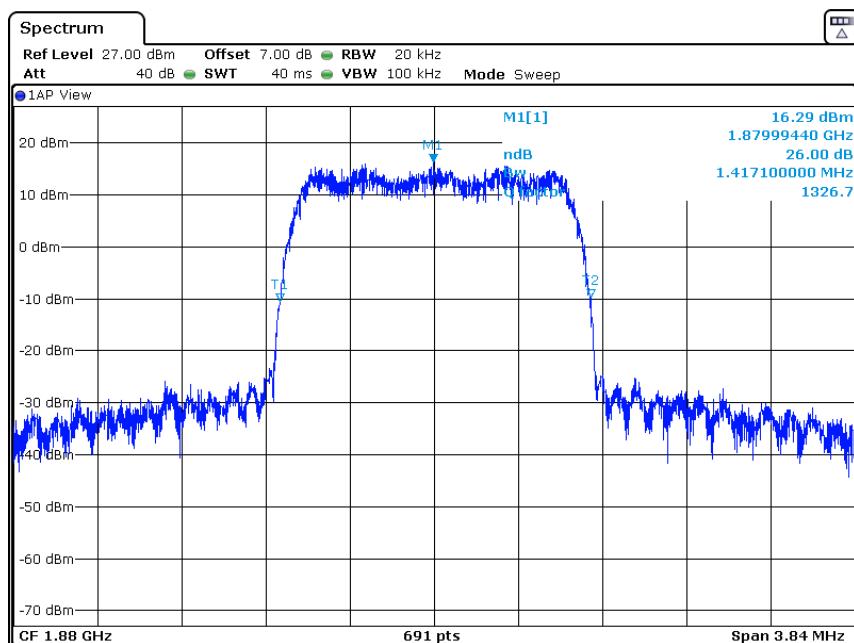
LAT Measurement Results:
CDMA 800 (-26dBc BW)

Channel	Emission Bandwidth (-26dBc BW)(MHz)
384	1.423

ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz
CDMA 800
Channel 384-Emission Bandwidth (-26dBc BW)


CDMA 1900 (-26dBc)

Channel	Emission Bandwidth (-26dBc BW)(MHz)
600	1.417

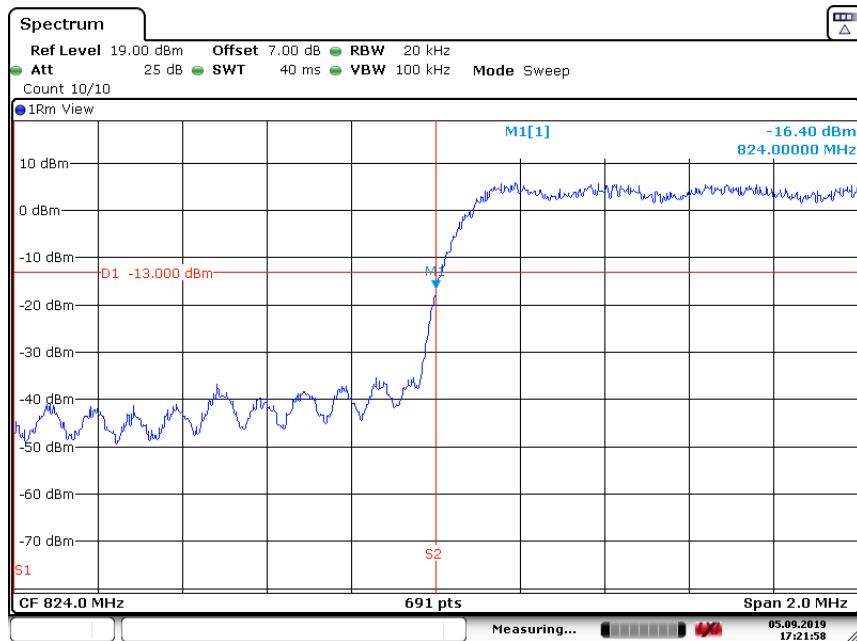
ANALYZER SETTINGS: RBW=20 kHz, VBW=100 kHz
CDMA 1900
Channel 600-Emission Bandwidth (-26dBc BW)


Date: 25.OCT.2019 16:26:24

A.5 BAND EDGE COMPLIANCE

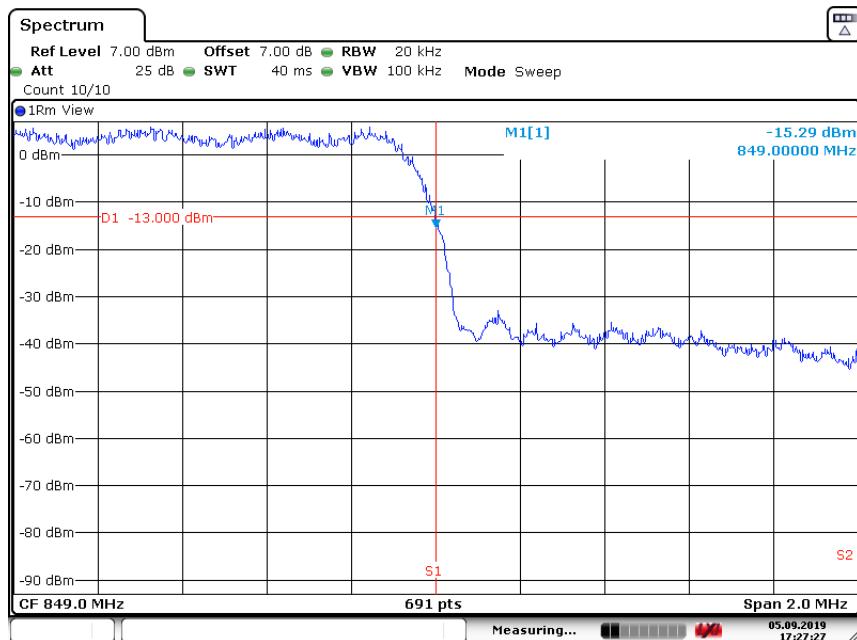
CDMA 800

BAND EDGE BLOCK-Channel 1013



Date: 5.SEP.2019 17:21:58

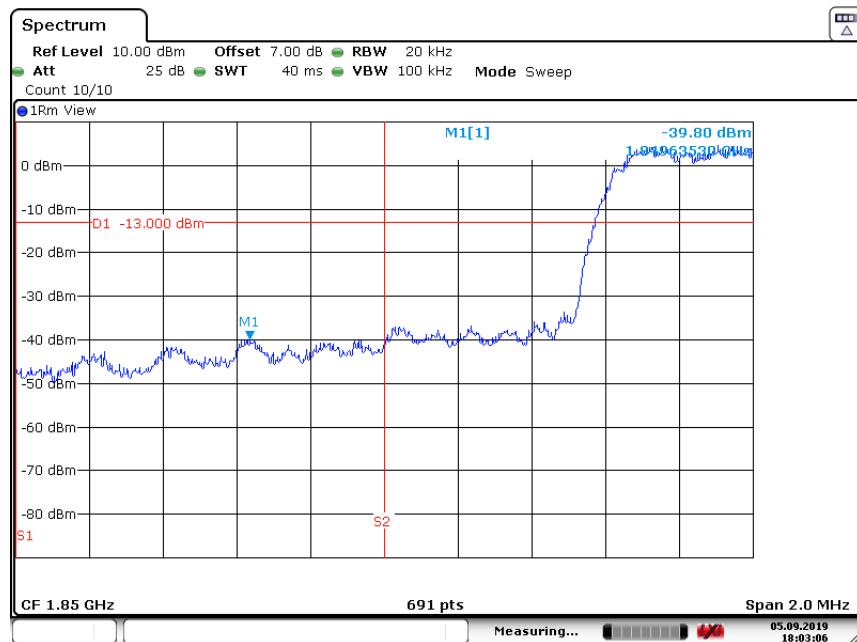
BAND EDGE BLOCK-Channel 777



Date: 5.SEP.2019 17:27:27

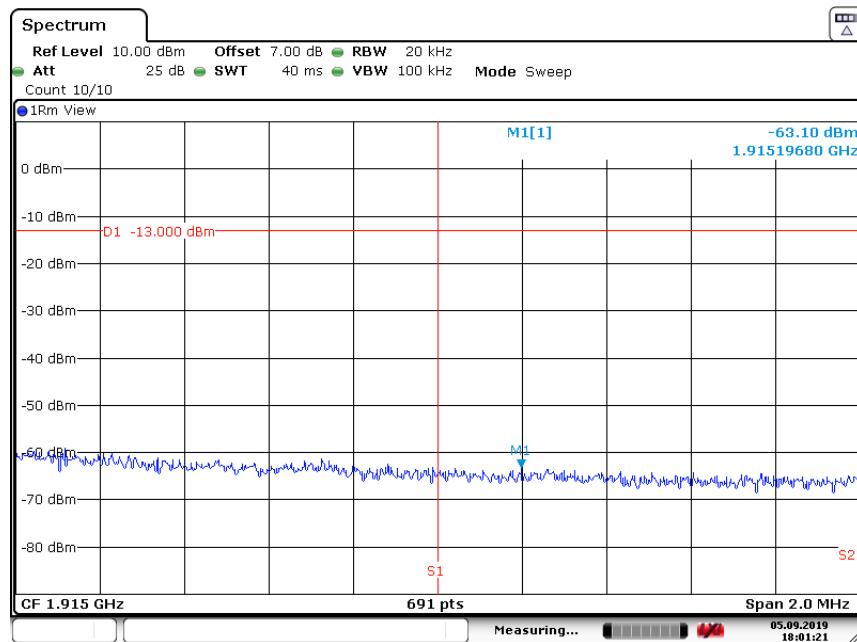
CDMA 1900

BAND EDGE BLOCK-Channel 25



Date: 5.SEP.2019 18:03:06

BAND EDGE BLOCK-Channel 1175



Date: 5.SEP.2019 18:01:21

A.6 CONDUCTED SPURIOUS EMISSION

A.6.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1057 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

CDMA 800 Transmitter

Channel	Frequency (MHz)
1013	824.70
384	836.52
777	848.31

CDMA 1900 Transmitter

Channel	Frequency (MHz)
25	1851.25
600	1880.00
1175	1909.75

A. 6.2 Measurement Limit

Sec. 24.238 Emission Limits.

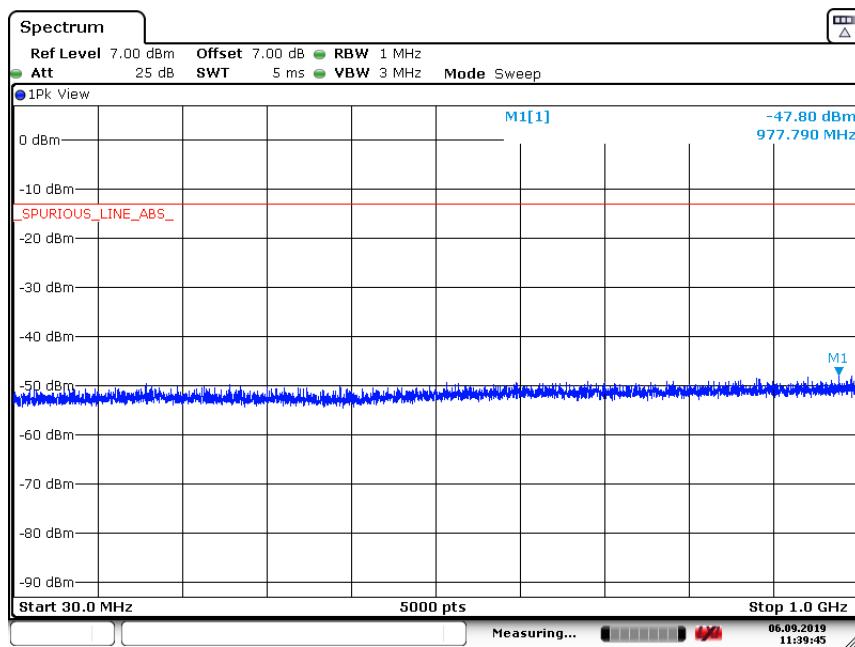
(a) On any frequency outside frequency band of the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. For all power levels +30 dBm to 0 dBm, this becomes a constant specification limit of -13 dBm.

A. 6.3 Measurement result

CDMA 1900

A. 6.3.1 Channel 25: 30MHz –1GHz

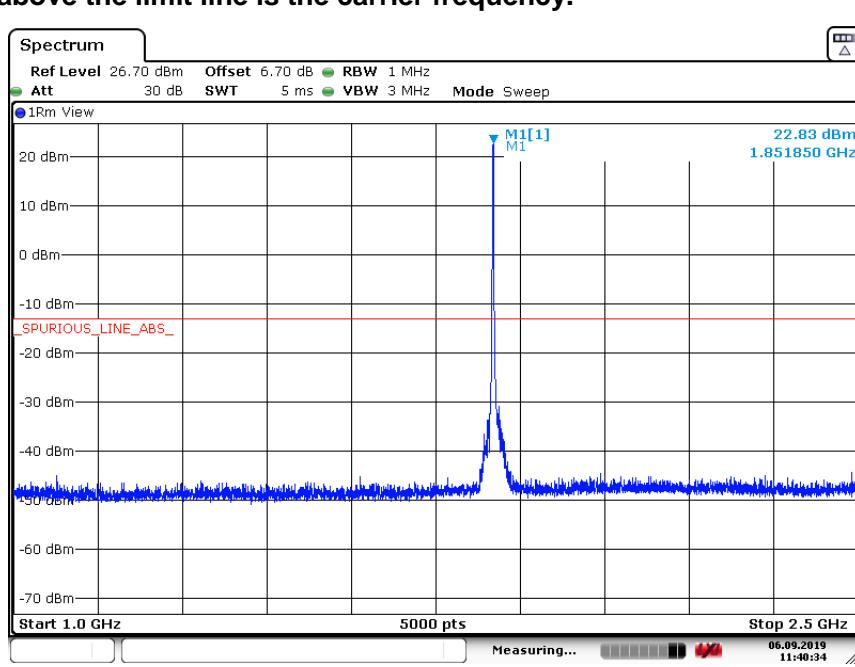
Spurious emission limit –13dBm.



A.6.3.2 Channel 25: 1GHz –2.5GHz

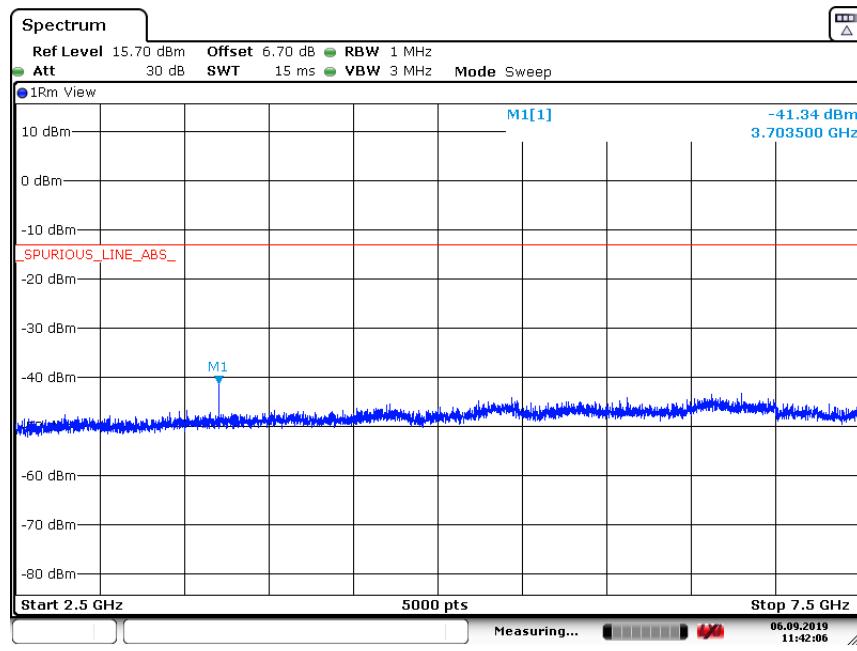
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



A.6.3.3 Channel 25: 2.5GHz –7.5GHz

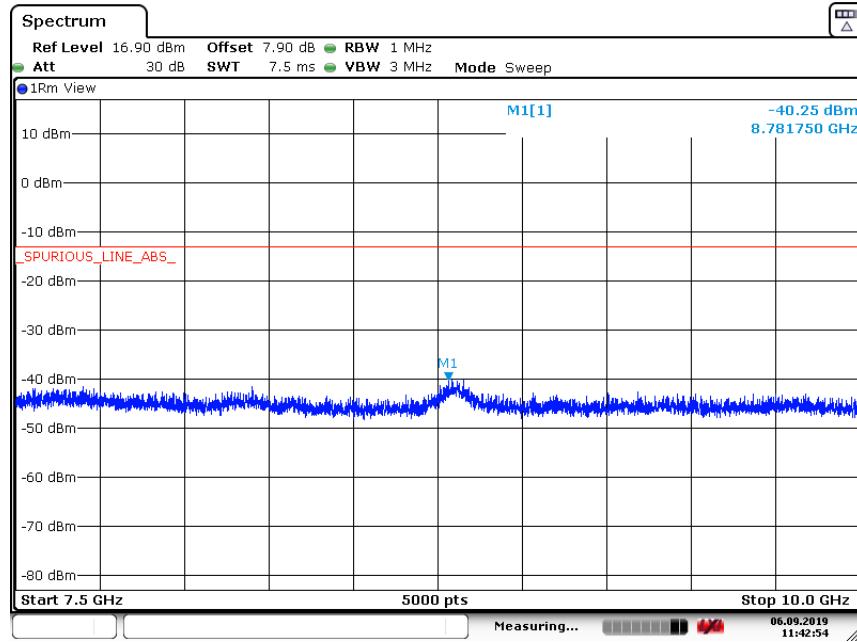
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:42:06

A.6.3.4 Channel 25: 7.5GHz –10GHz

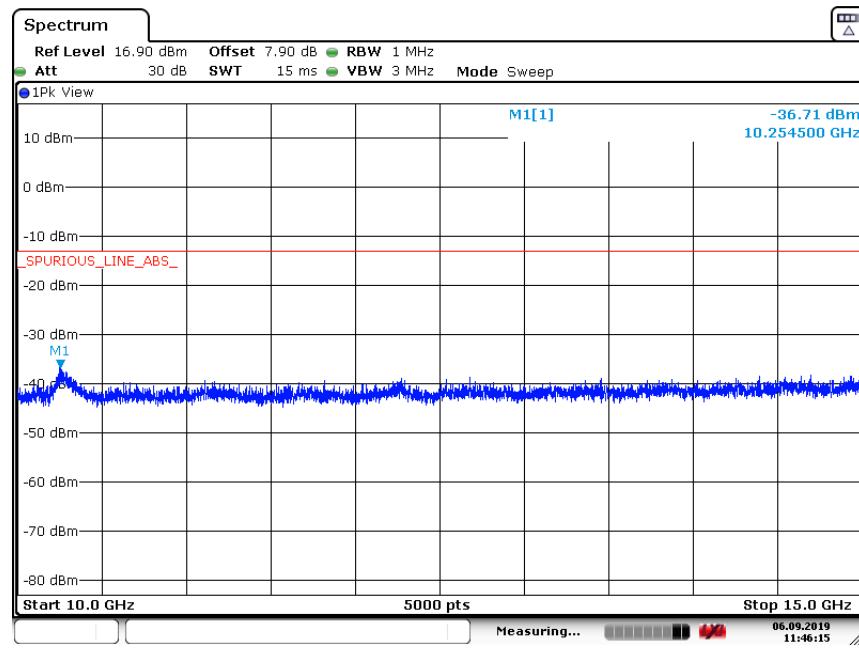
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:42:55

A.6.3.5 Channel 25: 10GHz –15GHz

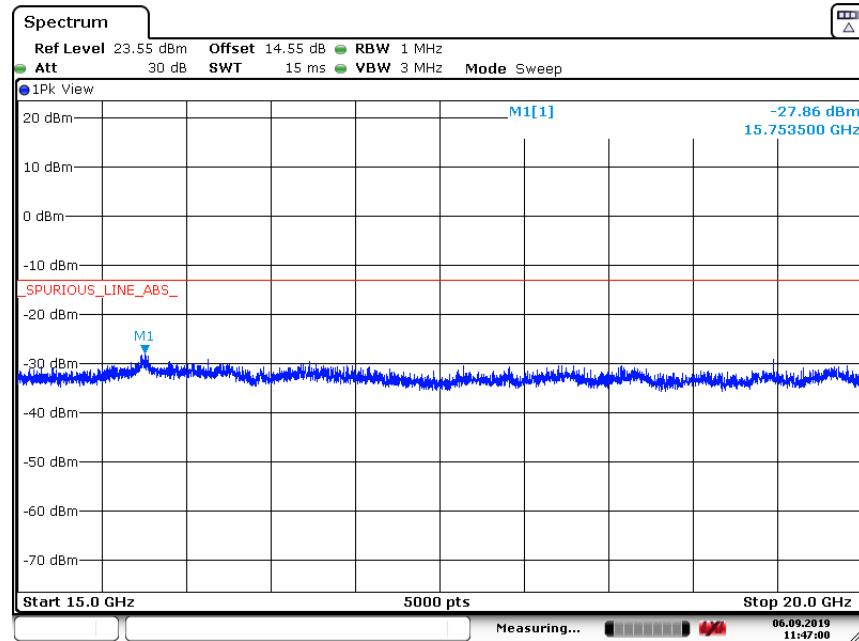
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:46:15

A.6.3.6 Channel 25: 15GHz –20GHz

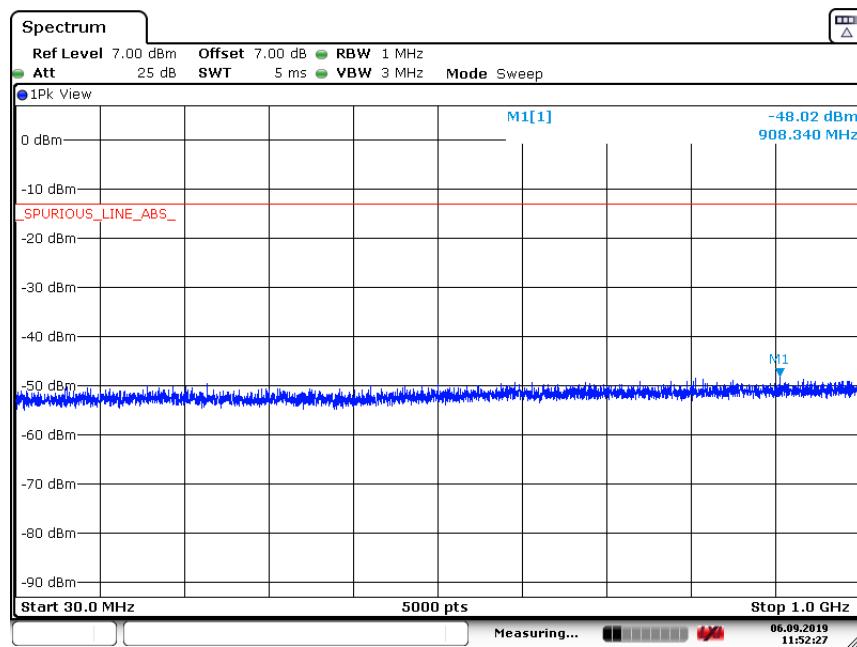
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:47:00

A. 6.3.7 Channel 600: 30MHz –1GHz

Spurious emission limit –13dBm.

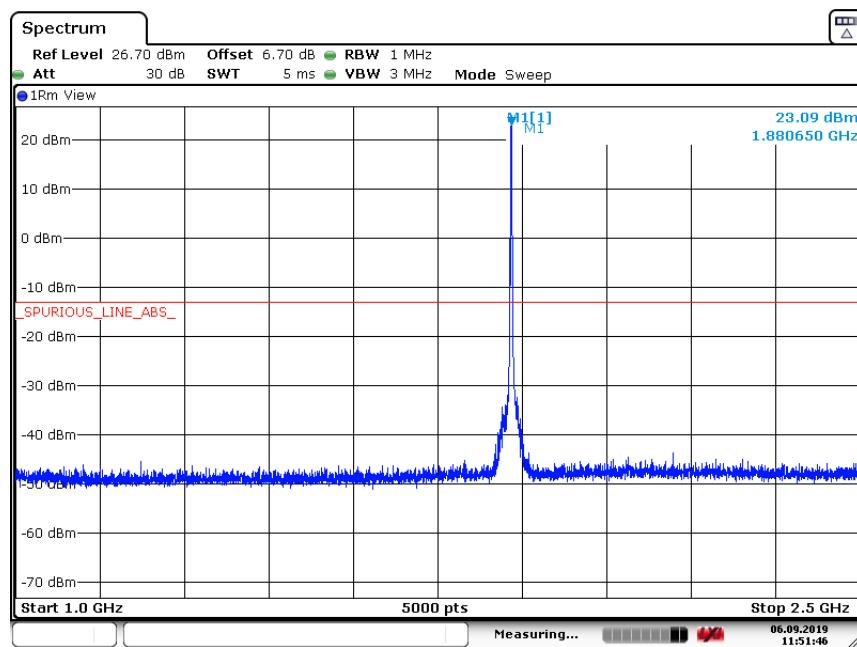


Date: 6.SEP.2019 11:52:27

A.6.3.8 Channel 600: 1GHz –2.5GHz

Spurious emission limit –13dBm.

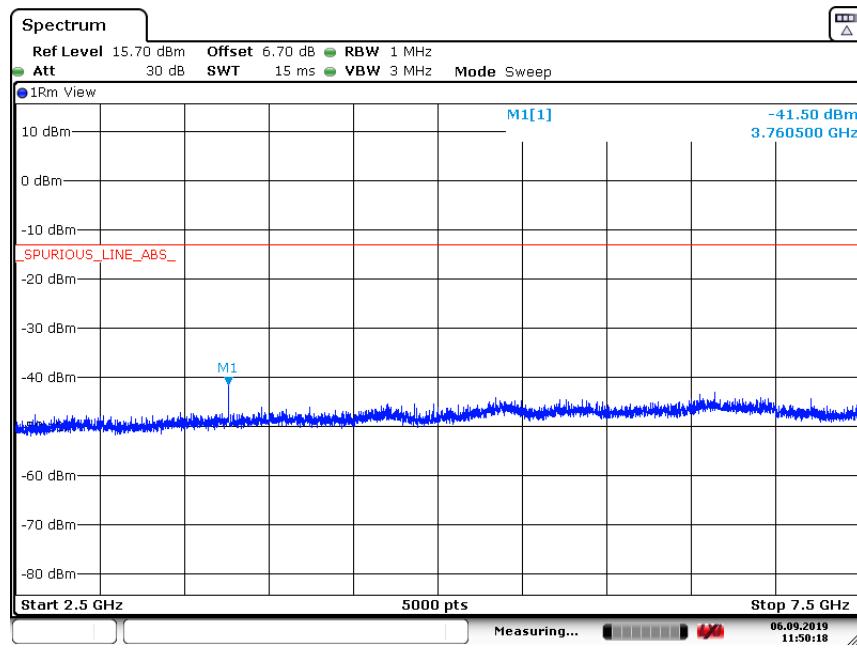
NOTE: peak above the limit line is the carrier frequency.



Date: 6.SEP.2019 11:51:47

A.6.3.9 Channel 600: 2.5GHz –7.5GHz

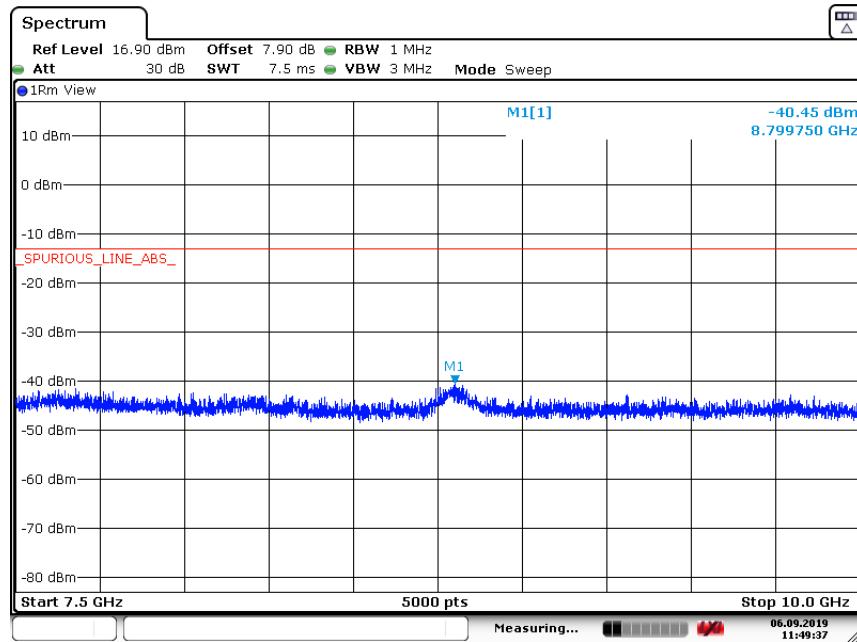
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:50:19

A.6.3.10 Channel 600: 7.5GHz –10GHz

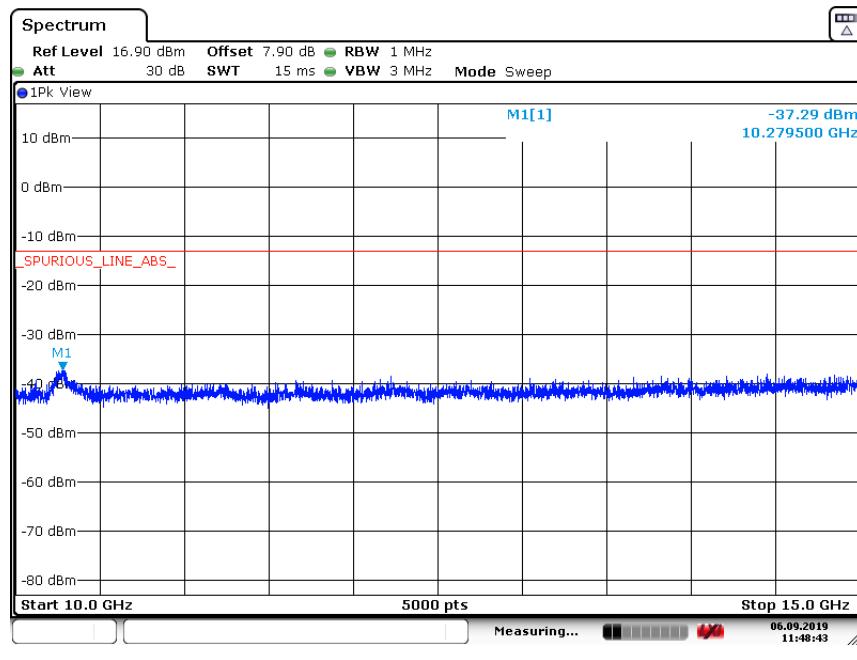
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:49:37

A.6.3.11 Channel 600: 10GHz –15GHz

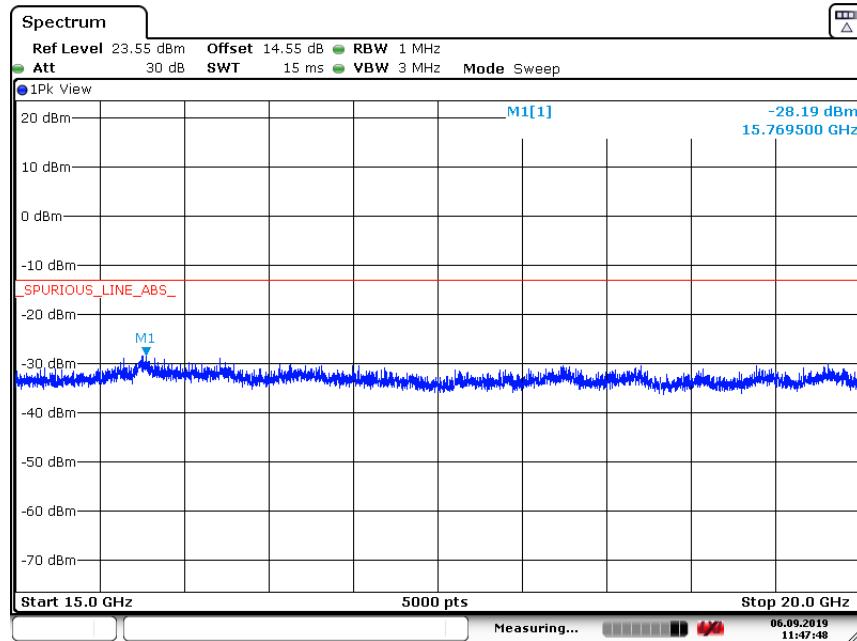
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:48:44

A.6.3.12 Channel 600: 15GHz –20GHz

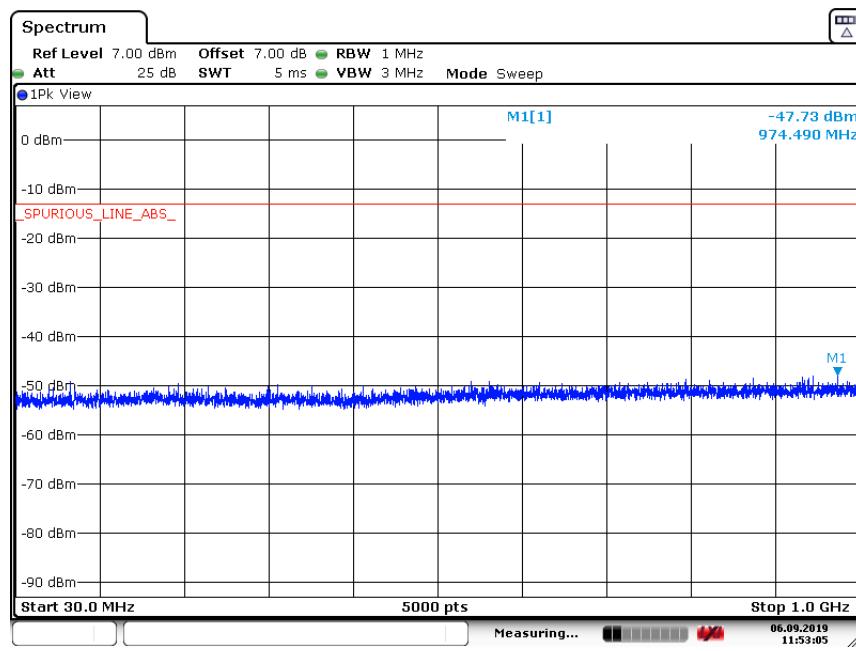
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:47:49

A. 6.3.13 Channel 1175: 30MHz –1GHz

Spurious emission limit –13dBm.

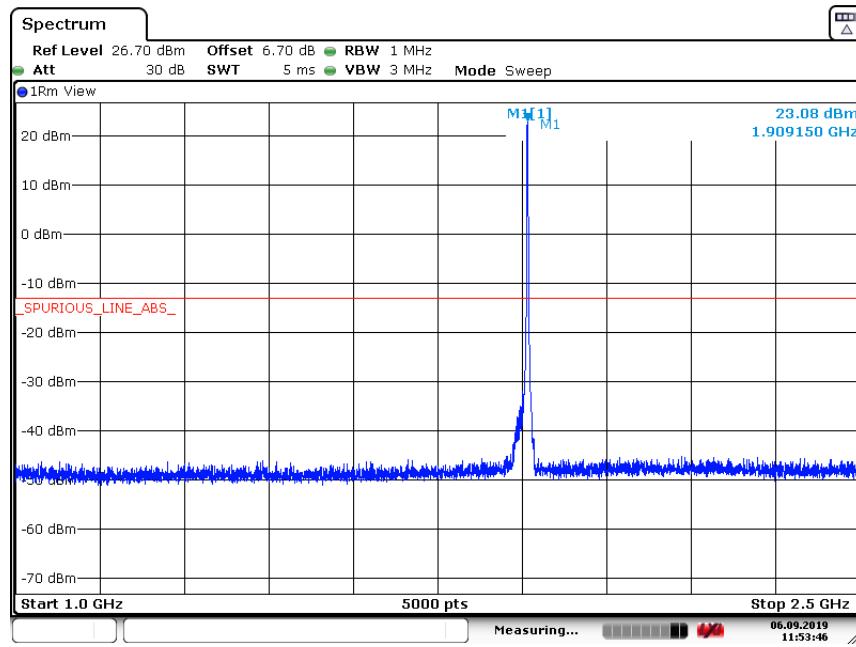


Date: 6.SEP.2019 11:53:05

A.6.3.14 Channel 1175: 1GHz –2.5GHz

Spurious emission limit –13dBm.

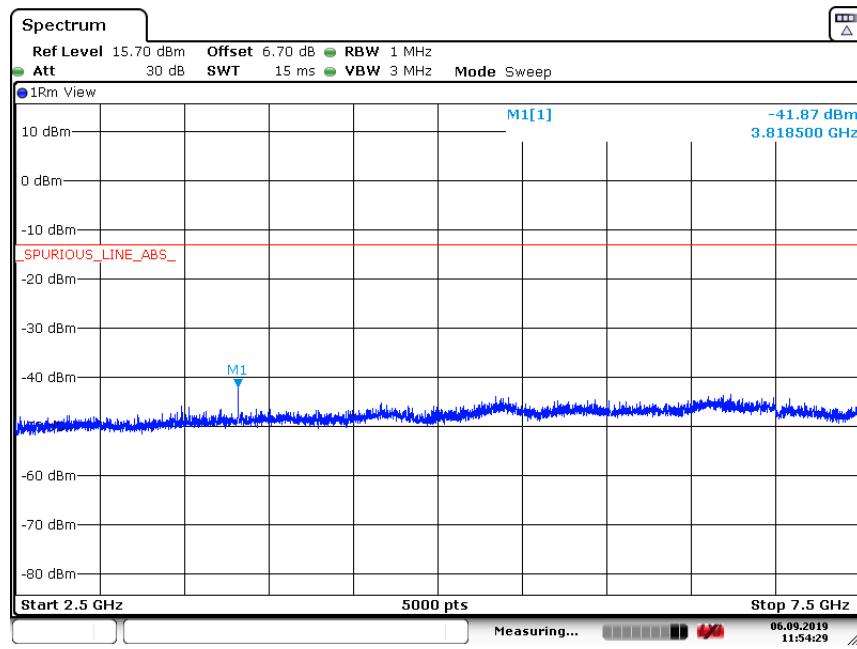
NOTE: peak above the limit line is the carrier frequency.



Date: 6.SEP.2019 11:53:47

A.6.3.15 Channel 1175: 2.5GHz –7.5GHz

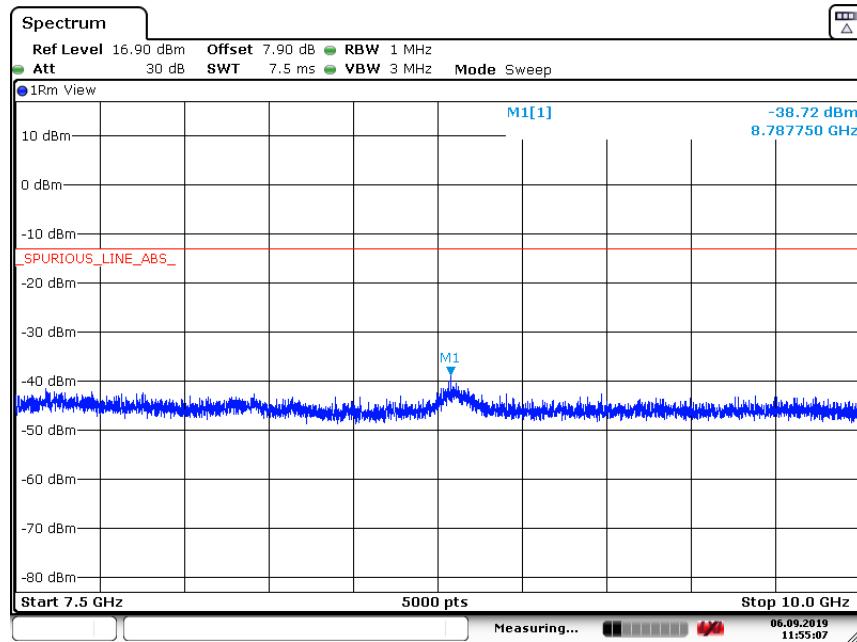
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:54:30

A.6.3.16 Channel 1175: 7.5GHz –10GHz

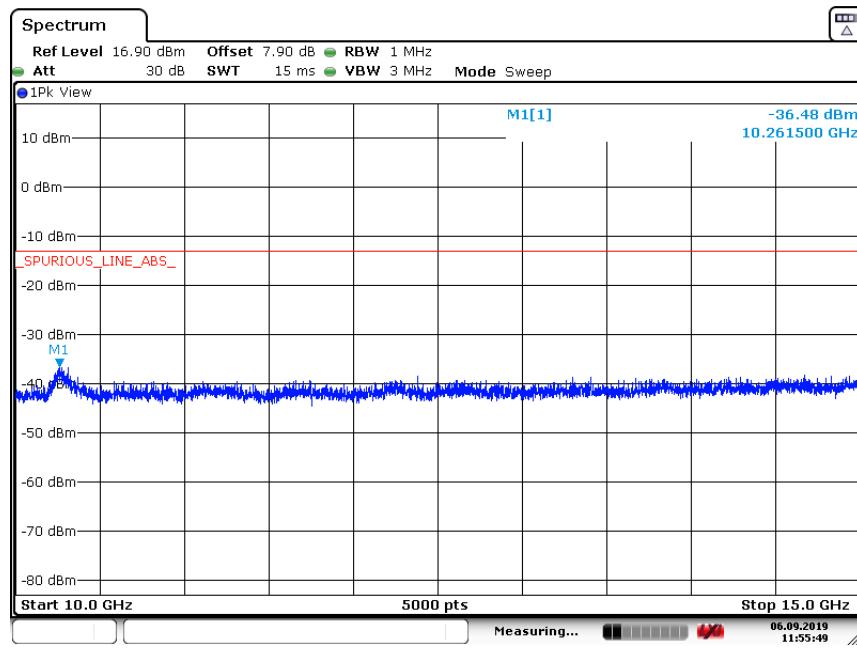
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:55:07

A.6.3.17 Channel 1175: 10GHz –15GHz

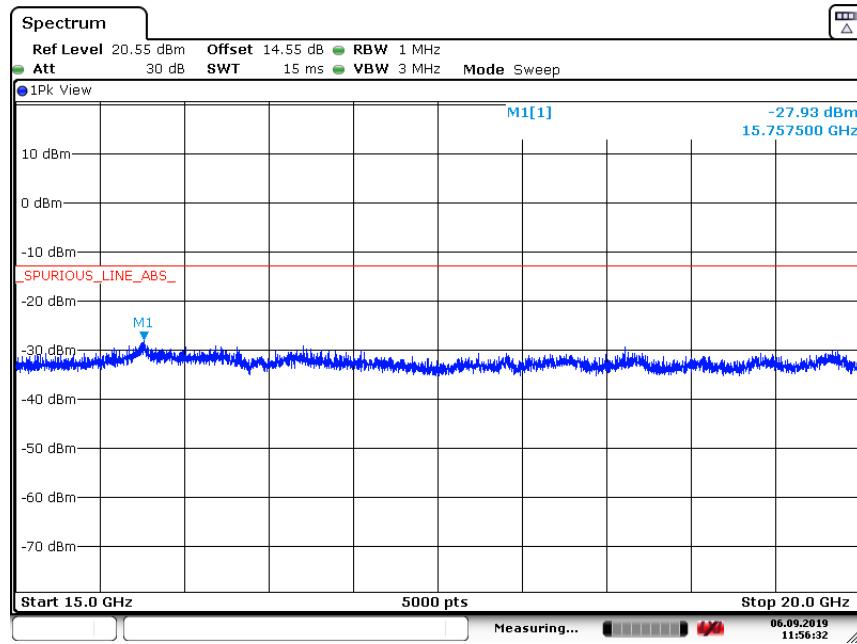
Spurious emission limit –13dBm.



Date: 6.SEP.2019 11:55:50

A.6.3.18 Channel 1175: 15GHz –20GHz

Spurious emission limit –13dBm.



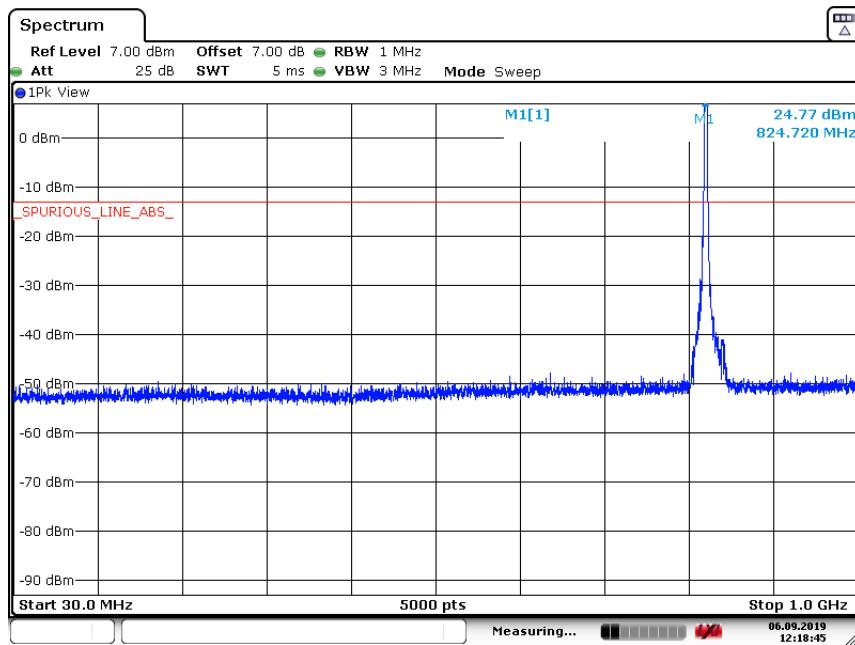
Date: 6.SEP.2019 11:56:33

CDMA 800

A. 6.3.19 Channel 1013: 30MHz –1GHz

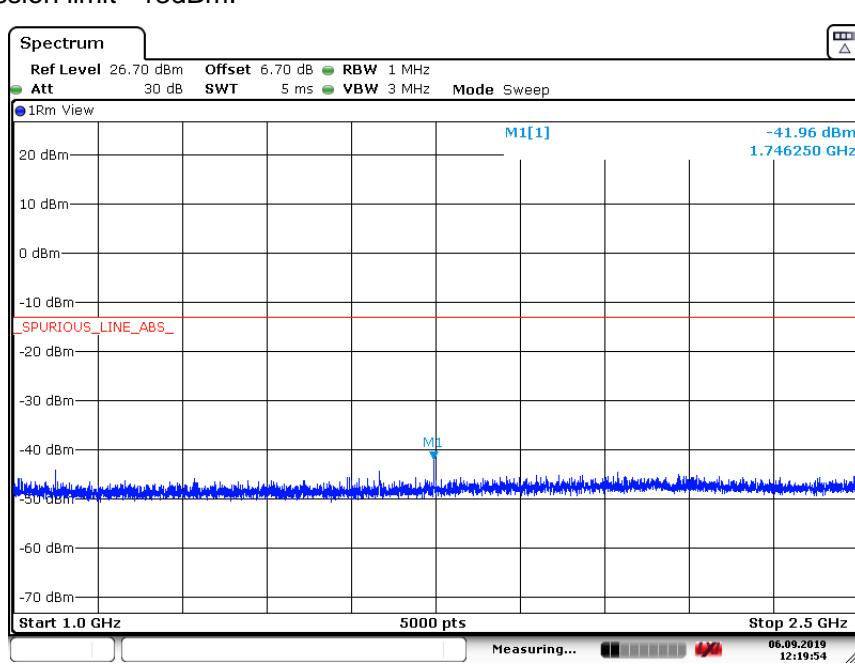
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



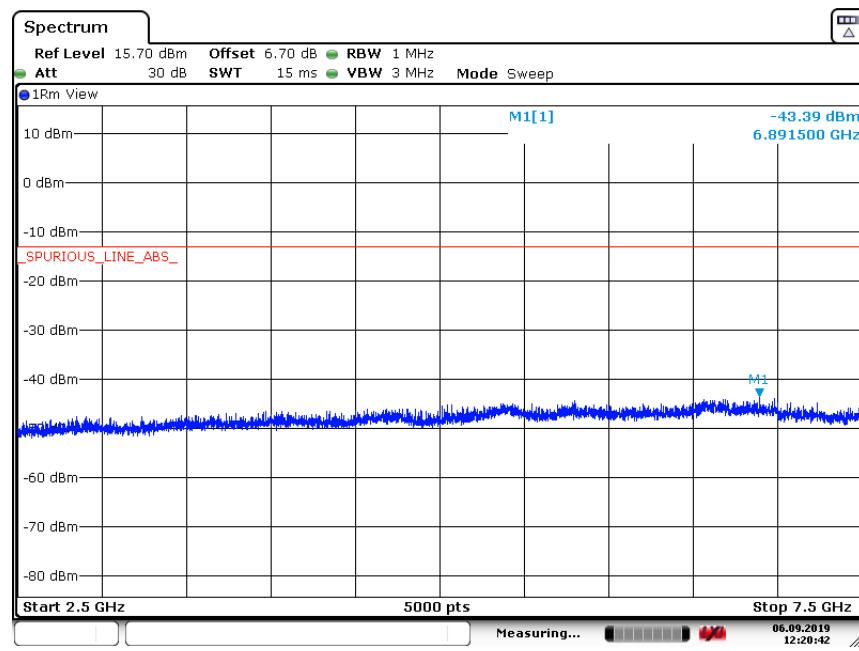
A. 6.3.20 Channel 1013: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



A. 6.3.21 Channel 1013: 2.5GHz –7.5GHz

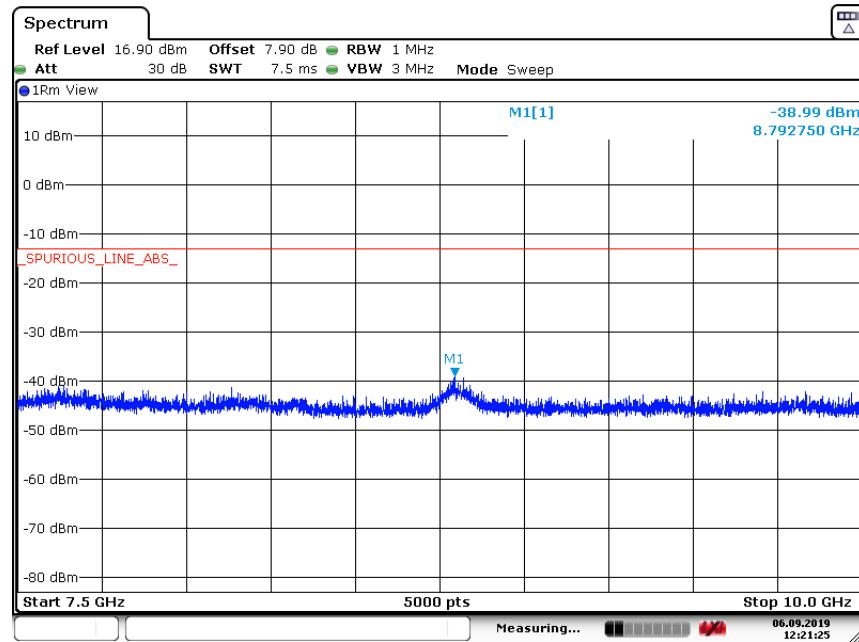
Spurious emission limit –13dBm.



Date: 6.SEP.2019 12:20:42

A. 6.3.22 Channel 1013: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

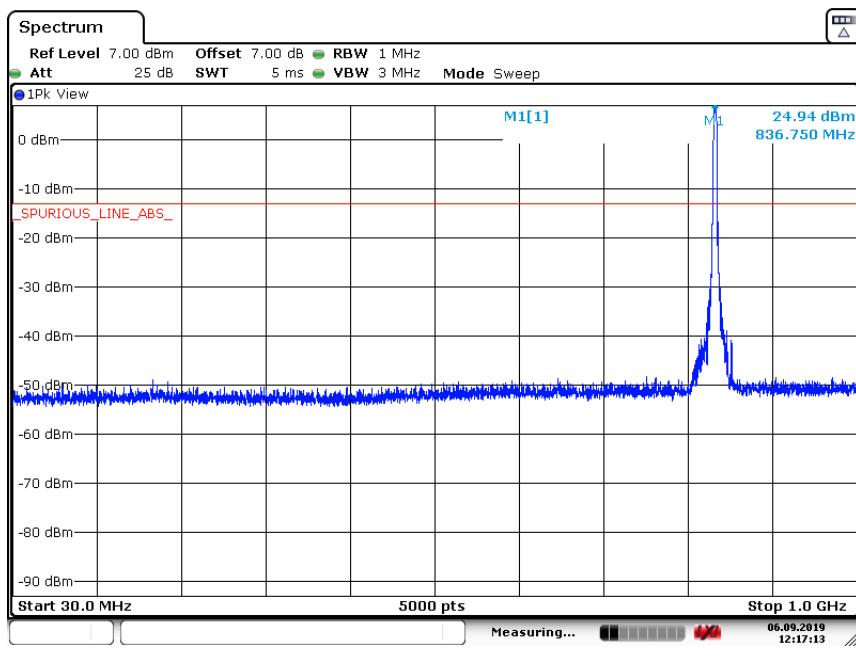


Date: 6.SEP.2019 12:21:25

A. 6.3.23 Channel 384: 30MHz –1GHz

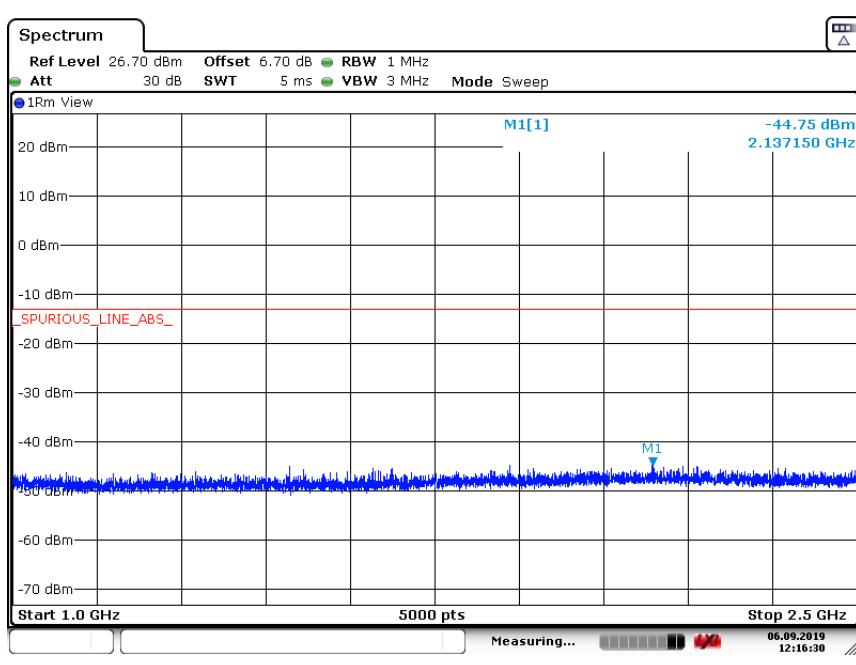
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



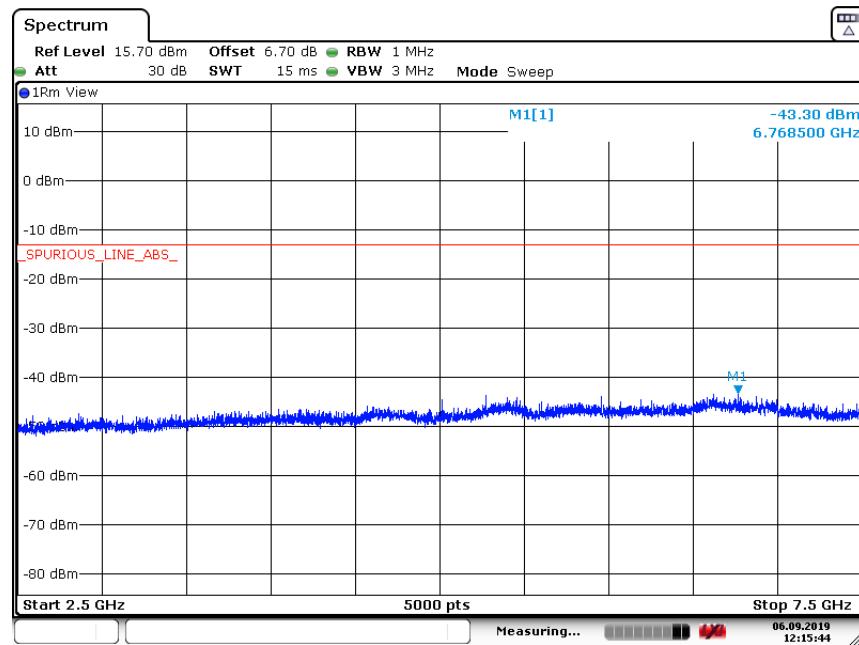
A.6.3.24 Channel 384: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



A. 6.3.25 Channel 384: 2.5GHz –7.5GHz

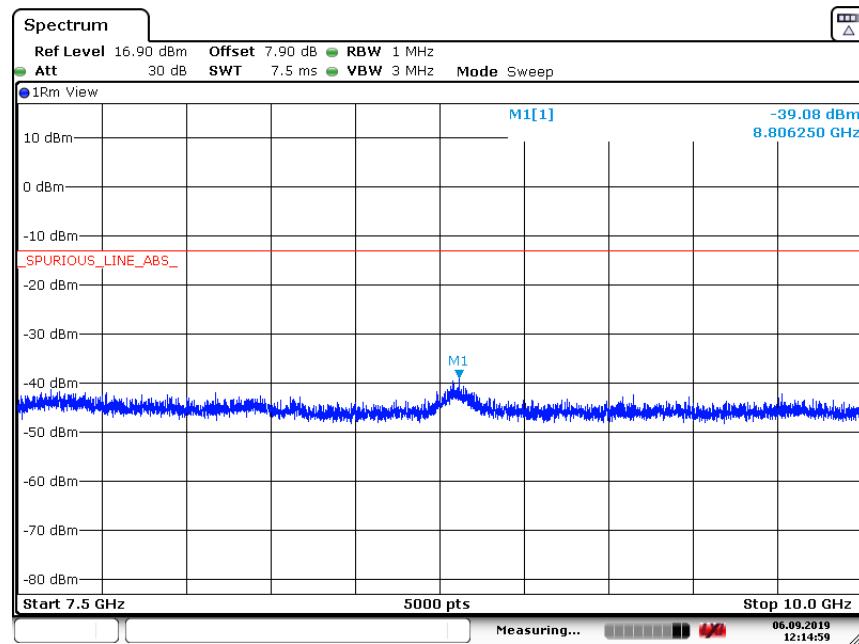
Spurious emission limit –13dBm.



Date: 6.SEP.2019 12:15:45

A. 6.3.26 Channel 384: 7.5GHz – 10GHz

Spurious emission limit –13dBm.

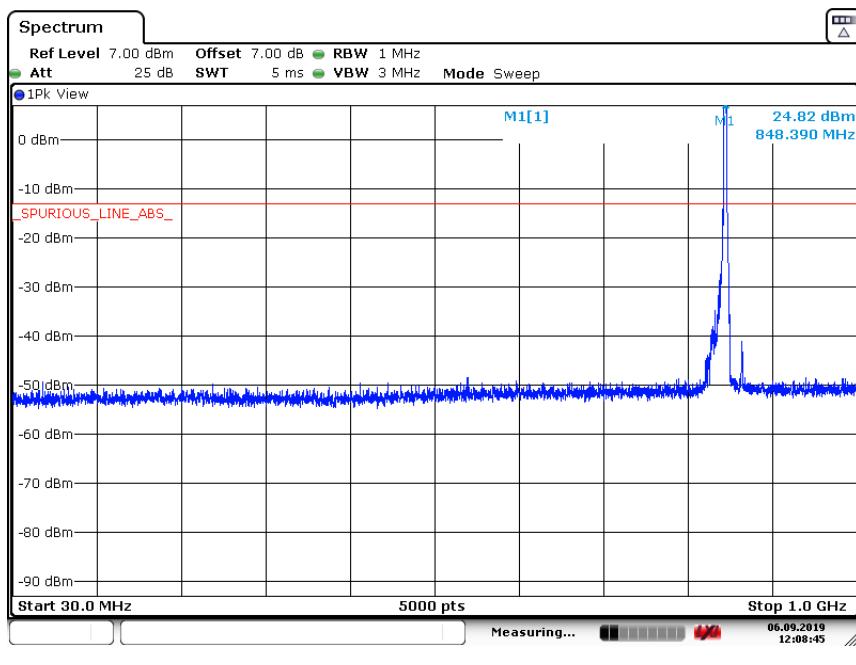


Date: 6.SEP.2019 12:14:59

A. 6.3.27 Channel 777: 30MHz –1GHz

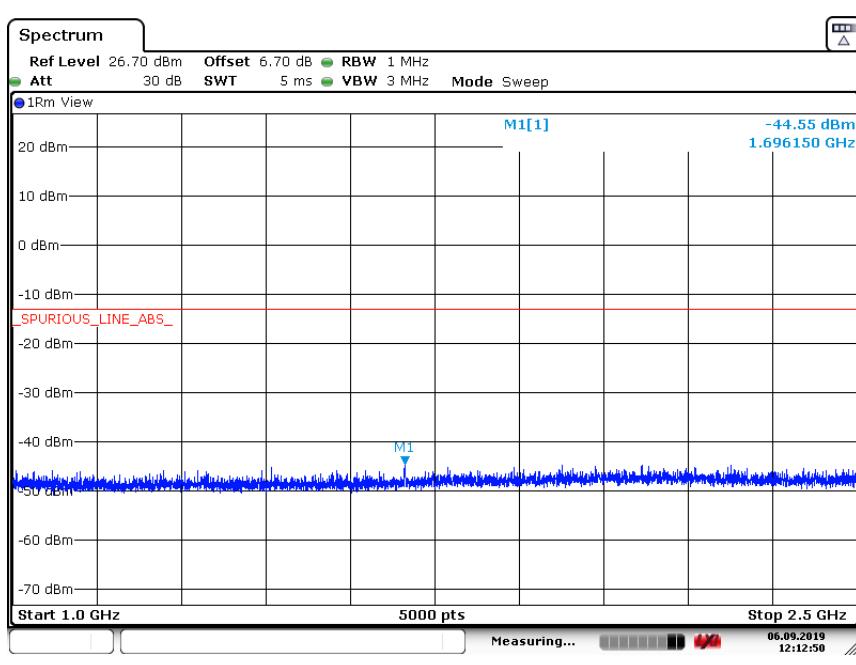
Spurious emission limit –13dBm.

NOTE: peak above the limit line is the carrier frequency.



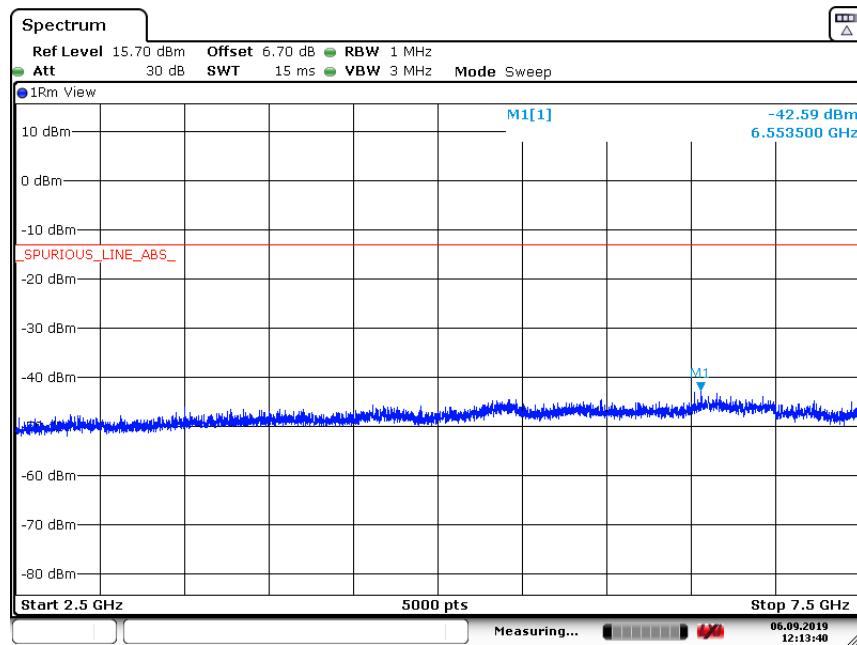
A. 6.3.28 Channel 777: 1GHz – 2.5GHz

Spurious emission limit –13dBm.



A. 6.3.29 Channel 777: 2.5GHz –7.5GHz

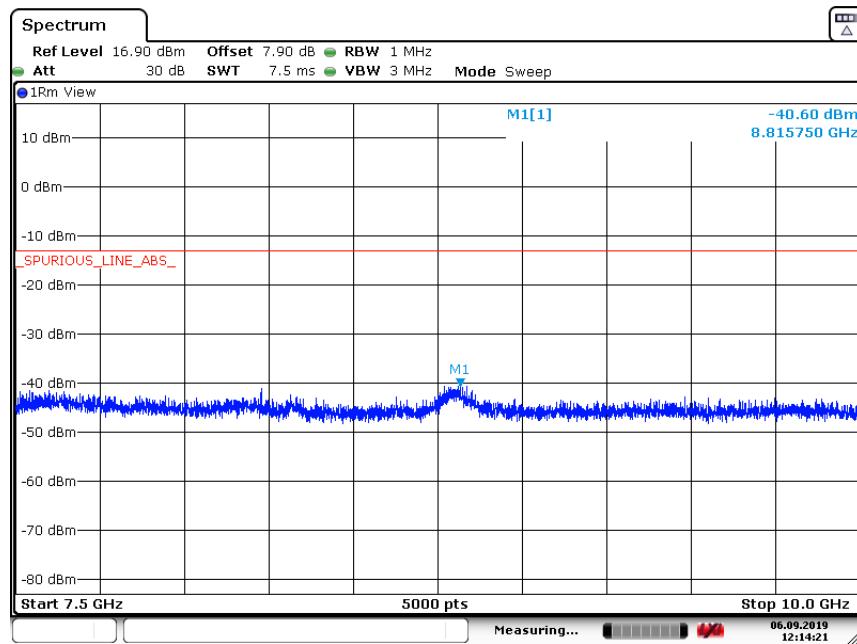
Spurious emission limit –13dBm.



Date: 6.SEP.2019 12:13:40

A. 6.3.30 Channel 777: 7.5GHz – 10GHz

Spurious emission limit –13dBm.



Date: 6.SEP.2019 12:14:22

A.7 PEAK-TO-AVERAGE POWER RATIO

Reference

FCC: CFR Part 24.232

Power measurements for transmissions by stations authorized under this section may be made either in accordance with a Commission-approved average power technique or in compliance with paragraph (e) of this section. In both instances, equipment employed must be authorized in accordance with the provisions of § 24.51. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

According to KDB 971168 D01:

- a) Refer to instrument's analyzer instruction manual for details on how to use the power Statistics/CCDF function;
- b) Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval to 1 ms;
- e) Record the maximum PAPR level associated with a probability of 0.1%.

A.7.1 Measurement limit

Not exceed 13 dB

A.7.2 Measurement results

CDMA 1900

Measurement result

Channel	Frequency(MHz)	PAPR(dB)		
		1x RTT	1xEVDO	
			Rel0	RevA
600	1880.00	3.77	4.12	4.20

ANNEX B: Accreditation Certificate

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT

Beijing
China

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

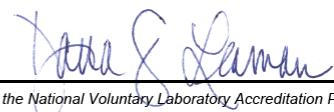
*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2019-09-26 through 2020-09-30

Effective Dates



For the National Voluntary Laboratory Accreditation Program



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