

TEST REPORT FOR WCDMA TESTING

Report No.:SRTC2020-9004(F)-20092401(B)

Product Name: LTE/WCDMA/GSM(GPRS) Multi-Mode Digital Mobile Phone

Product Model: ZTE Blade A51

Applicant: ZTE CORPORATION

Manufacturer: ZTE CORPORATION

Specification: FCC Part 24E, Part 22H, Part 2, Part 27 (2019)

FCC ID: SRQ-ZTEA51

The State Radio_monitoring_center Testing Center (SRTC)

15th Building, No.30Shixing Street, Shijingshan District,

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1. GENERAL INFORMATION

1.1 Notes of the test report

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1.2 Information about the testing laboratory

Company:	The State Radio_monitoring_center Testing Center (SRTC)
Address:	15th Building, No.30 Shixing Street, Shijingshan District, P.R.China
City:	Beijing
Country or Region:	P.R.China
Contacted person:	Liu Jia
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1.3 Applicant's details

Company:	ZTE CORPORATION
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili street, Nanshan District
City:	Shenzhen
Country or Region:	Guangdong, China
Contacted person:	Ren Shijia
Tel:	13709193069
Fax:	---
Email:	ren.shijia@zte.com.cn

1.4 Manufacturer's details

Company:	ZTE CORPORATION
Address:	Electronic Testing Building, No. 43 Shahe Road, Xili street, Nanshan District
City:	Shenzhen
Country or Region:	Guangdong, China
Contacted person:	Ren Shijia
Tel:	13709193069
Fax:	---
Email:	ren.shijia@zte.com.cn

1.5 Test Environment

Date of Receipt of test sample at SRTC:	2020-09-24
Testing Start Date:	2020-09-24
Testing End Date:	2020-10-20

Environmental Data:	Temperature (°C)	Humidity (%)
Ambient	25	47
Maximum Extreme	55	---
Minimum Extreme	-10	---

Normal Supply Voltage (V d.c.):	3.85
Maximum Extreme Supply Voltage (V d.c.):	4.40
Minimum Extreme Supply Voltage (V d.c.):	3.40

2 DESCRIPTION OF THE DEVICE UNDER TEST

2.1 Final Equipment Build Status

Frequency Range	WCDMA Band II: Tx:1852.4~1907.6MHz Rx:1932.4~1987.6MHz WCDMA Band IV: Tx:1712.4~1752.6MHz Rx:2112.4~2152.6MHz WCDMA Band V: Tx:826.4~846.6MHz Rx:871.4~891.6MHz
Mode	HSDPA/HSUPA
Emission Designator	4M50F9W
Duplex Mode	FDD
Duplex Spacing	WCDMA Band II:80MHz WCDMA Band IV:400MHz WCDMA Band V:45MHz
Antenna Type	Fixed Internal Antenna
Antenna Gain	W2: -1.7dBi/W4: 0.8dBi/W5: -2.1dBi
Power Supply	Battery/Charger
Hardware Version	zc7A
Software Version	TEL_MX_ZTE_Blade_A51V1.0
IMEI	867934050002148

2.2 Support Equipment

The following support equipment was used to exercise the DUT during testing:

Equipment	Battery 1
Manufacturer	ZhongShan TianMao Battery Co., Ltd.
Model Number	Li3931T44P8h806139
Equipment	Battery 2
Manufacturer	Ningbo Veken Battery Co., Ltd.
Model Number	Li3931T44P8h806139
Equipment	Charger
Manufacturer	RUIJING
Model Number	STC-A51D-Z
Equipment	Headset 1
Manufacturer	JUWEI ELECTRONICS CO.,LTD
Model Number	JWEP1036-Z01R
Equipment	Headset2
Manufacturer	ShenZhen FDC Electronic Co.,Ltd
Model Number	DEM-66
Equipment	USB Cable1
Manufacturer	kingpower
Model Number	USB-TC20-W-100-M-L
Equipment	USB Cable2
Manufacturer	luxshare
Model Number	USB-TC20-W-100-M-L

2.3 Summary table.

FCC Rule Part	Frequency Range(MHz)	ERP/ EIRP (dBm)	ERP/ EIRP (W)	Frequency Tolerance (ppm)	Emission Designator
24E	1852.4-1907.6	22.23	0.167	0.096	4M15F9W
22H	826.4-846.6	19.93	0.098	0.098	4M16F9W
27	1712.4-1752.6	24.74	0.298	0.100	4M16F9W

3 REFERENCE SPECIFICATION

Specification	Version	Title
FCC Part2	2019	Frequency allocations and radio treaty matters; general rules and regulations
FCC Part22	2019	Public mobile services
FCC Part24	2019	Personal communications services
FCC Part27	2019	Miscellaneous wireless communications services
ANSI C63.26	2015	American national standard for compliance testing of transmitters used in licensed radio services
KDB 971168 D01	April 9, 2018	Measurement guidance for certification of licensed digital transmitters
TIA-603-E-2 016	March 2016	LandMobileFMorPMCommunicationsEquipmentMeasurementandPerformanceStandards

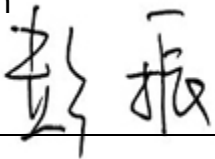
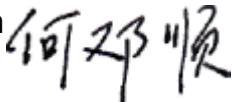
4 KEY TO NOTES AND RESULT CODES

The following are the definition of the test result.

Code	Meaning
PASS	Test result shows that the requirements of the relevant specification have been met.
FAIL	Test result shows that the requirements of the relevant specification have not been met.
NT	Normal Temperature
NV	Nominal voltage
HV	High voltage
LV	Low voltage

5 RESULT SUMMARY

No.	Test case	FCC reference	Verdict
1	RF Power Output	2.1046	Pass
2	Effective Radiated Power and Effective Isotropic Radiated Power	22.913(a),24.232(c),27.50(d)(4)	Pass
3	Occupied Bandwidth	2.1049	Pass
4	Emission Bandwidth	2.1049	Pass
5	Spurious Emissions at antenna terminal	2.1051,22.917(a),24.238(a),27.53(h)	Pass
6	Band Edges Compliance	2.1051,22.917(a),24.238(b),27.53(h)	Pass
7	Frequency Stability	2.1055,22.355,24.235,27.54	Pass
8	Radiated Spurious Emissions	2.1053,22.917(a),24.238(a),27.53(h)	Pass
9	Peak-Average Ratio	24.232(d),27.50(d)(5)	Pass

This Test Report Is Issued by: Mr. Peng Zhen 	Checked by: Mr. Li Bin 
Tested by: Mr. He Dengshun 	Issued date: 20201020

6 TEST RESULT

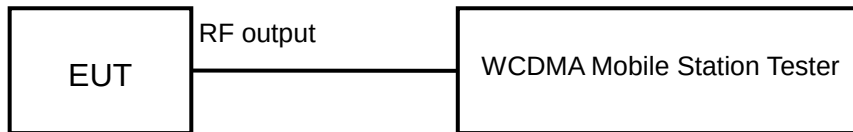
6.1 RF Power Output

Rule Part(s):
2.1046

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:

After a radio link has been established between EUT and Tester, the output power of the cell signal of the testing equipment will be decreased until the output power of the EUT reach a maximum value. Then the test data can be read at the tester screen. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration. The measurement will be conducted at three channels (Low, middle and High channels).

Limits:Limits: Nospecific conduct power requirements in part 2.1046.

Test result:

The test results are shown in Appendix A.

6.2 Effective Radiated Power and Effective Isotropic Radiated Power

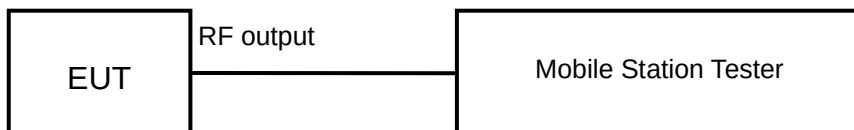
Rule Part(s):

FCC: 22.913(a) (5), 24.232(c), 27.50(d) (4)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 5.2.1

Test Settings

Subclause 5.2.5.5 of ANSI C63.26-2015 is applicable, along with the following provisions. For personal/portable radios utilizing an integral antenna, the factor LC is typically negligible. However, in a fixed station transmit system that utilizes a long cable run between the transmitter and the transmitting antenna, this factor can be significant. The minimum cable loss should be used in this equation.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{ERP/EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

ERP/EIRP LIMIT

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

22.913(a) (5)

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

24.232(c)

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

27.50(d) (4)

Fixed, mobile, and portable (hand-held) stations operating in the 1710-1755 MHz band and mobile and portable stations operating in the 1695-1710 MHz and 1755-1780 MHz bands are limited to 1 watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground. Mobile and portable stations operating in these bands must employ a means for limiting power to the minimum necessary for successful communications

Test result:

The test results are shown in Appendix B.

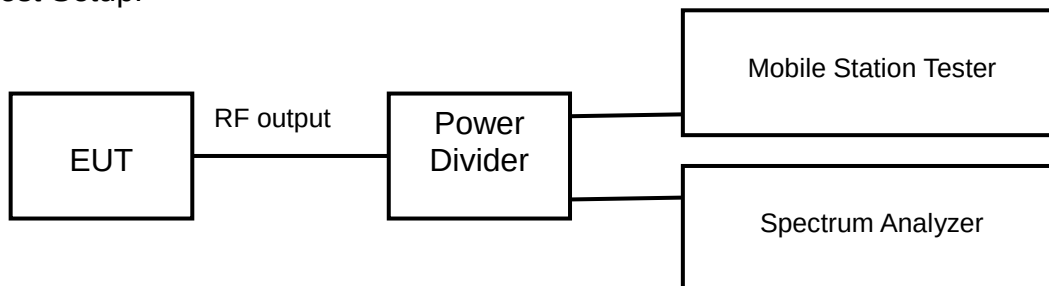
6.3 Occupied Bandwidth

Rule Part(s):
FCC:2.1049

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:
KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:
The test results are shown in Appendix A.

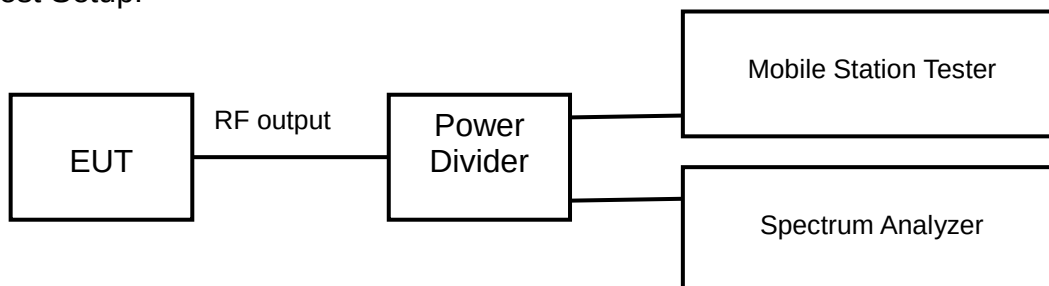
6.4 Emission Bandwidth

Rule Part(s):
FCC: 2.1049

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:
KDB 971168 D01 v03r01 – Section 4.2

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 26dB occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the emission bandwidth observed in Step 7

Limits: No specific occupied bandwidth requirements in part 2.1049

Test result:
The test results are shown in Appendix A.

6.5 Spurious Emissions at antenna terminal

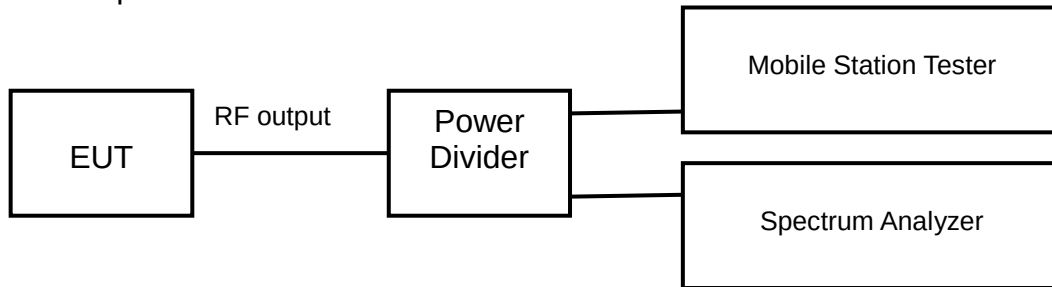
Rule Part(s):

FCC:2.1051,22.917(a),24.238(a),27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz for Cell, 20GHz for PCS
2. RBW=100 kHz (For below 1GHz),1MHz (For above 1GHz)
3. VBW $\geq 3 \times$ RBW
4. Detector = RMS
5. Trace mode = trace average for continuous emissions, max hold for pulse emissions
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Limits:

The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{\text{[Watts]}})$, where P is the transmitter power in Watts.

Test result:

The test results are shown in Appendix A.

6.6 Band Edges Compliance

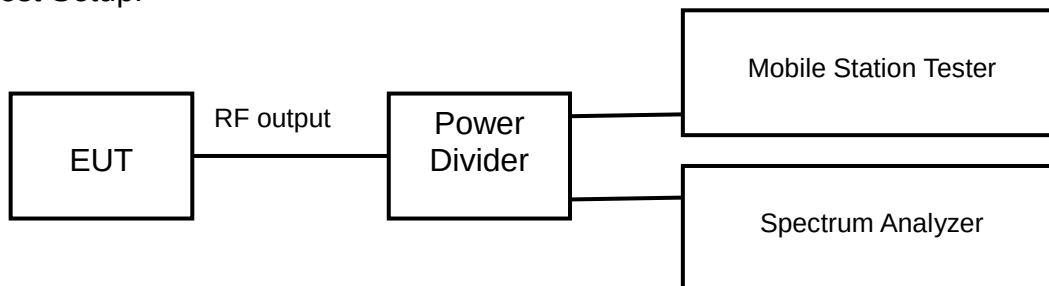
Rule Part(s)

FCC: 2.1051, 22.917(a), 24.238(a), 27.53(c)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span=2MHz
3. RBW > 1% of the emission bandwidth
4. VBW > 3 x RBW
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Limit: The minimum permissible attenuation level of any spurious emission is $43 + \log_{10}(P_{\text{[Watts]}})$, where P is the transmitter power in Watts.

Test result:

The test results are shown in Appendix A.

6.7 Frequency Stability

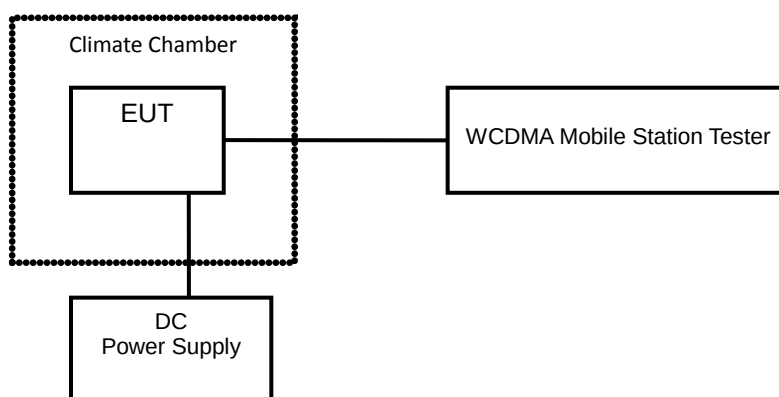
Rule Part(s)

FCC: 2.1055, 22.355, 24.235, 27.54

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test setup:



Test Procedure:

ANSI/TIA-603-E-2016

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C (The temperature range can be declared by the manufacturer). A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Limits: For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test result:

The test results are shown in Appendix A.

6.8 Radiated Spurious Emissions

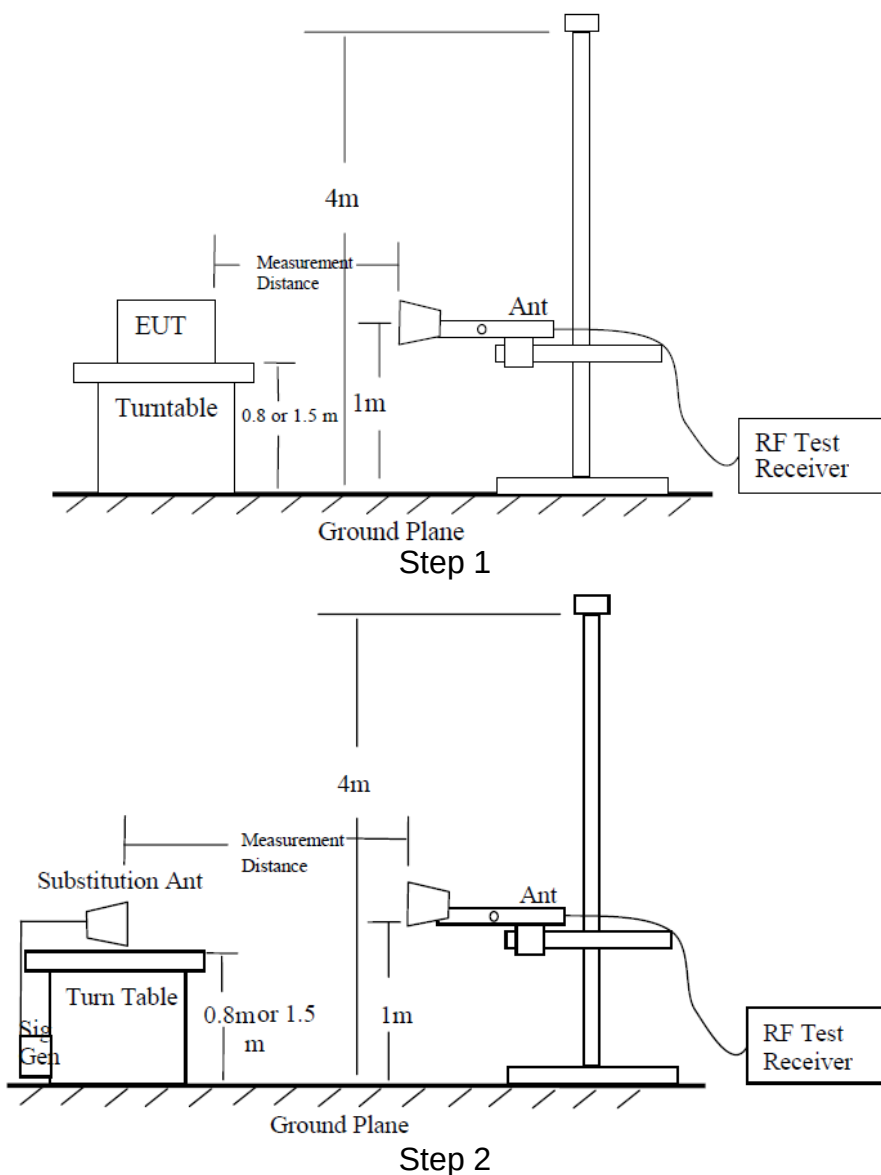
Rule Part(s)

FCC: 2.1053, 22.917(a), 24.238(a), 27.53(h)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:

The measurements procedures in TIA-603-E-2016 are used.

The spectrum was scanned from 30MHz to the 10th harmonic of the highest frequency generated within the equipment.

Step 1:

The measurement is carried out in the chamber. EUT was placed on a 0.8m ($f < 1\text{GHz}$)/1.5m ($f > 1\text{GHz}$) high non-conductive table at a 3 meters test distance from the test receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT. The height of receiving antenna from 1m to 4m and varies in certain range to find the maximum power value. A radio link shall be established between EUT and Tester. The output power of the cell signal of the tester will be decreased until the output power of the EUT reach a maximum value. A peak detector is used and RBW is set to 100 kHz ($f < 1\text{GHz}$)/1MHz ($f > 1\text{GHz}$). The antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum power value on spectrum analyzer or receiver. The spectrum analyzer scans from 30MHz to 10th harmonic of the carrier. A notch filter is necessary in the band near to the carrier frequency. A high pass filter is needed to avoid the distortion of the testing equipment in the band above the carrier frequency.

Step 2:

A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.

A power (P_{mea}) is applied to the input of the substitution antenna, and adjusts the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (P_{mea}) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

A "reference path loss" should be calculated after test. The attenuation of "reference path loss" is the cable loss between the Signal Source with the Substitution Antenna (P_{ca}) and the Substitution Antenna Gain (G_a).

Calculation procedure:

The data of cable loss and antenna gain has been calibrated in full testing frequency range before the testing.

The power of the Radiated Spurious Emissions is calculated by adding the cable loss and antenna gain. The basic equation with a sample calculation is as followed:

$$\text{Power (EIRP)} = P_{\text{mea}} + P_{\text{ca}} + G_a$$

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

Assumed the power of signal source record is -20dBm. A cable loss of -30dB, and an antenna gain of 11dB are added.

$$P = P_{\text{mea}} + P_{\text{ca}} + G_a = (-20\text{dBm}) + (-30\text{dB}) + (11\text{dB}) = -39\text{dBm}$$

Test result:

The test results are shown in Appendix B.

6.9 Peak-Average Ratio

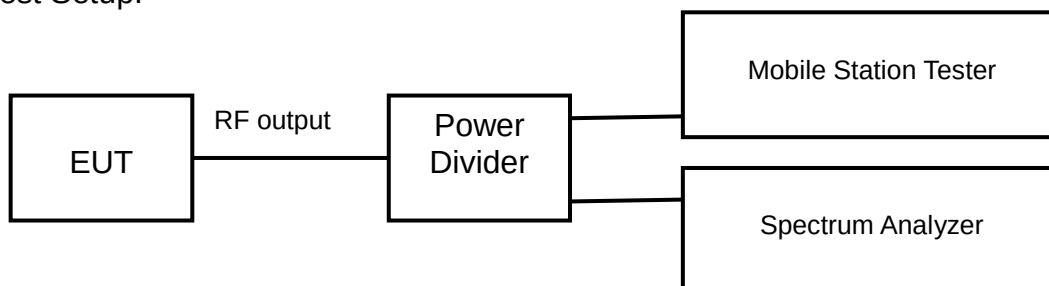
Rule Part(s)

FCC: 24.232(d), 27.50(d) (5)

Ambient condition:

Temperature	Relative humidity	Pressure
25°C	47%	101.9kPa

Test Setup:



Test procedure:

KDB 971168 D01 v03r01 – Section 5.7.1

Test settings:

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Limits: the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

Test result:

The test results are shown in Appendix A

7 MEASUREMENT UNCERTAINTIES

Items	Uncertainty	
RF Power Output	U=0.6 dB	
Occupied Bandwidth	3kHz	
Spurious Emissions	9kHz~2GHz	U=1.2dB
	2G~3.6GHz	U=1.4dB
	3.6G~8GHz	U=2.2dB
	8G~12.75GHz	U=2.7dB
Band Edges Compliance	1.2dB	
Frequency Stability	U=48 Hz	

8 TEST EQUIPMENTS

No.	Name/Model	Manufacturer	S/N	Calibration Date	Calibration Due Date
1	E5515C(8960) Mobile Station Tester	Agilent	MY50266302	2020.08.20	2021.08.19
2	N9020A Spectrum Analyzer	Agilent	MY48010771	2020.08.20	2021.08.19
3	Spectrum Analyzer FSV	ROHDE&SCHWARZ	101065	2020.08.20	2021.08.19
4	6007 Power Divider	Weinschel	6007-GJ-1	2020.08.20	2021.08.19
5	DC Power Supply E3645A	Agilent	MY40000741	2020.03.01	2021.02.28
6	Temperature chamber SH241	ESPEC	92013758	2020.08.20	2021.08.19
7	12.65m×8.03m×7.50m Fully-Anechoic Chamber	FRANKONIA	----	----	----
8	23.18m×16.88m×9.60m Semi-Anechoic Chamber	FRANKONIA	---	----	----
9	Turn table Diameter:1m	FRANKONIA	----	----	----
10	Turn table Diameter:5m	FRANKONIA	----	----	----
11	Antenna master FAC(MA4.0)	MATURO	----	----	----
12	Antenna master SAC(MA4.0)	MATURO	----	----	----
13	9.080m×5.255m×3.525m Shielding room	FRANKONIA	----	----	----
14	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100512	2020.08.20	2021.08.19
15	HF 907 Double-Ridged Waveguide Horn Antenna	R&S	100513	2020.08.20	2021.08.19
16	HL562 Ultra log antenna	R&S	100016	2020.08.20	2021.08.19
17	3160-09 Receive antenna	SCHWARZ-BECK	002058-002	2020.08.20	2021.08.19
18	ESI 40 EMI test receiver	R&S	100015	2020.08.20	2021.08.19
19	ESCS30 EMI test receiver	R&S	100029	2020.08.20	2021.08.19
20	HL562 Receive antenna	R&S	100167	2020.08.20	2021.08.19
21	ENV216 AMN	R&S	3560.6550.12	2020.08.20	2021.08.19

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

RF Power Output

WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1852.4	9262	23.86
		1880.0	9400	23.88
		1907.6	9538	23.93
HSDPA	Subtest 1	1852.4	9262	22.28
		1880.0	9400	22.34
		1907.6	9538	22.35
	Subtest 2	1852.4	9262	22.32
		1880.0	9400	22.35
		1907.6	9538	22.37
	Subtest 3	1852.4	9262	22.28
		1880.0	9400	22.36
		1907.6	9538	22.39
	Subtest 4	1852.4	9262	22.31
		1880.0	9400	22.32
		1907.6	9538	22.39
HSUPA	Subtest 1	1852.4	9262	22.29
		1880.0	9400	22.35
		1907.6	9538	22.37
	Subtest 2	1852.4	9262	22.31
		1880.0	9400	22.32
		1907.6	9538	22.36
	Subtest 3	1852.4	9262	22.27
		1880.0	9400	22.37
		1907.6	9538	22.41
	Subtest 4	1852.4	9262	22.28
		1880.0	9400	22.36
		1907.6	9538	22.35
	Subtest 5	1852.4	9262	22.26
		1880.0	9400	22.38
		1907.6	9538	22.37

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	826.4	4132	24.12
		836.6	4183	24.18
		846.6	4233	24.13
HSDPA	Subtest 1	826.4	4132	22.56
		836.6	4183	22.65
		846.6	4233	22.63
	Subtest 2	826.4	4132	22.60
		836.6	4183	22.68
		846.6	4233	22.61
	Subtest 3	826.4	4132	22.58
		836.6	4183	22.61
		846.6	4233	22.54
	Subtest 4	826.4	4132	22.61
		836.6	4183	22.65
		846.6	4233	22.53
HSUPA	Subtest 1	826.4	4132	22.57
		836.6	4183	22.58
		846.6	4233	22.59
	Subtest 2	826.4	4132	22.59
		836.6	4183	22.61
		846.6	4233	22.62
	Subtest 3	826.4	4132	22.58
		836.6	4183	22.63
		846.6	4233	22.61
	Subtest 4	826.4	4132	22.59
		836.6	4183	22.58
		846.6	4233	22.58
	Subtest 5	826.4	4132	22.54
		836.6	4183	22.58
		846.6	4233	22.53

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	RF Power Output (dBm)
Release 99	RMC,12.2kbps	1712.4	1312	23.94
		1732.4	1412	23.90
		1752.6	1513	23.94
HSDPA	Subtest 1	1712.4	1312	22.37
		1732.4	1412	22.31
		1752.6	1513	22.36
	Subtest 2	1712.4	1312	22.42
		1732.4	1412	22.38
		1752.6	1513	22.37
	Subtest 3	1712.4	1312	22.43
		1732.4	1412	22.31
		1752.6	1513	22.44
	Subtest 4	1712.4	1312	22.40
		1732.4	1412	22.37
		1752.6	1513	22.39
HSUPA	Subtest 1	1712.4	1312	22.43
		1732.4	1412	22.39
		1752.6	1513	22.41
	Subtest 2	1712.4	1312	22.34
		1732.4	1412	22.38
		1752.6	1513	22.35
	Subtest 3	1712.4	1312	22.41
		1732.4	1412	22.40
		1752.6	1513	22.38
	Subtest 4	1712.4	1312	22.42
		1732.4	1412	22.30
		1752.6	1513	22.42
	Subtest 5	1712.4	1312	22.39
		1732.4	1412	22.33
		1752.6	1513	22.36

Occupied Bandwidth

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1465
1880.0	9400	4.1460
1907.6	9538	4.1531

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1852.4	9262	4.1449
1880.0	9400	4.1515
1907.6	9538	4.1497

WCDMA band V

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1327
836.6	4183	4.1515
846.6	4233	4.1318

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
826.4	4132	4.1603
836.6	4183	4.1493
846.6	4233	4.1526

WCDMA band IV

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.1540
1732.4	1412	4.1452
1752.6	1513	4.1448

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of 99% Power (MHz)
1712.4	1312	4.1531
1732.4	1412	4.1517
1752.6	1513	4.1554

Emission Bandwidth

WCDMA band II

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.643
1880.0	9400	4.663
1907.6	9538	4.650

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1852.4	9262	4.648
1880.0	9400	4.614
1907.6	9538	4.660

WCDMA band V

REL99 Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.635
836.6	4183	4.650
846.6	4233	4.645

HSUPA Mode:

Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
826.4	4132	4.624
836.6	4183	4.642
846.6	4233	4.645

WCDMA band IV

REL99 Mode:

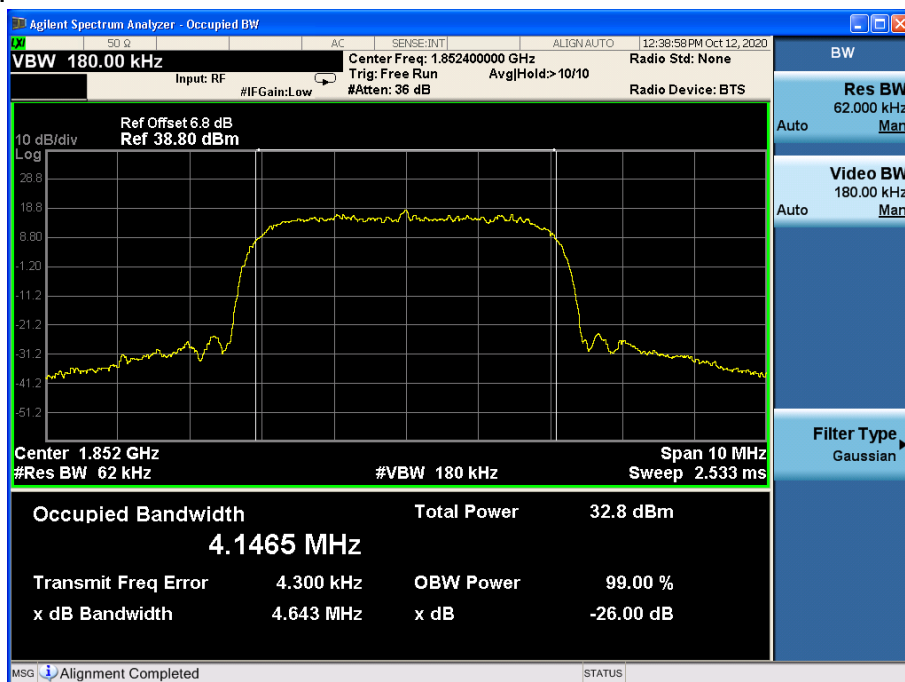
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.645
1732.4	1412	4.649
1752.6	1513	4.659

HSUPA Mode:

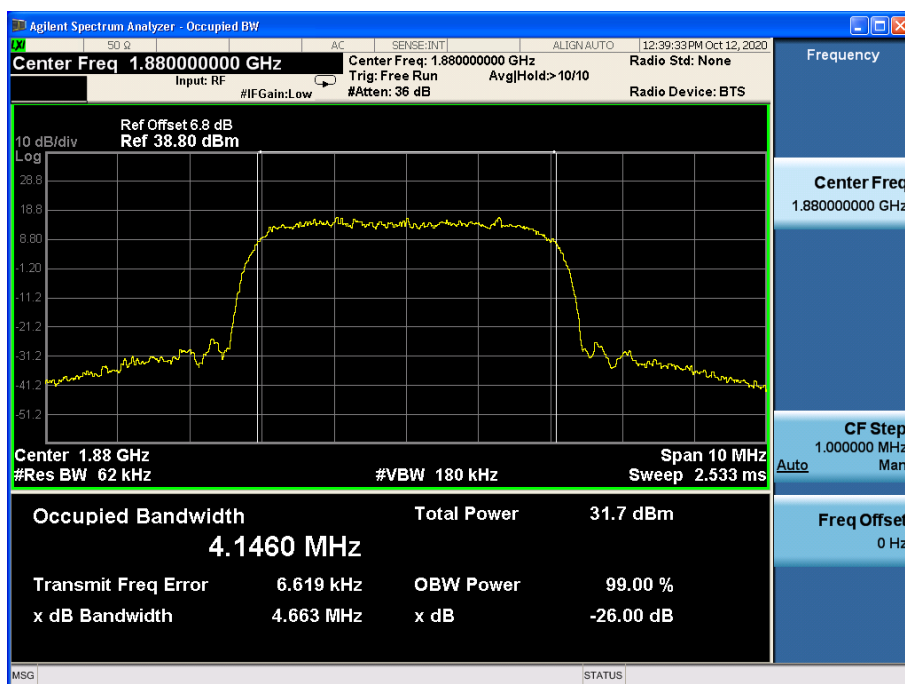
Carrier frequency (MHz)	Channel No.	Bandwidth of -26dBc Power (MHz)
1712.4	1312	4.636
1732.4	1412	4.651
1752.6	1513	4.654

WCDMA band II

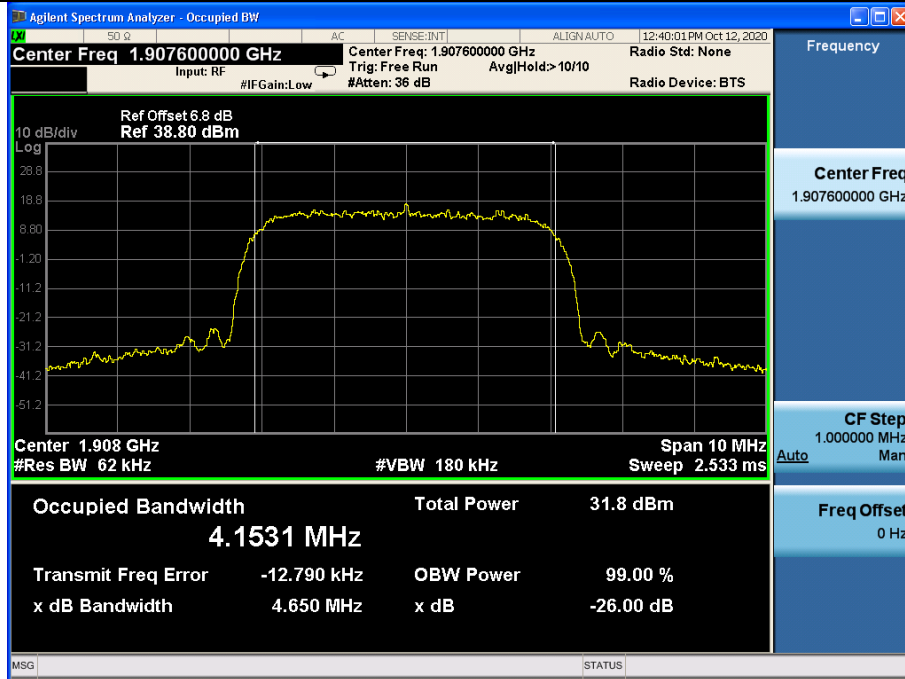
REL99 Mode:



Channel 9262

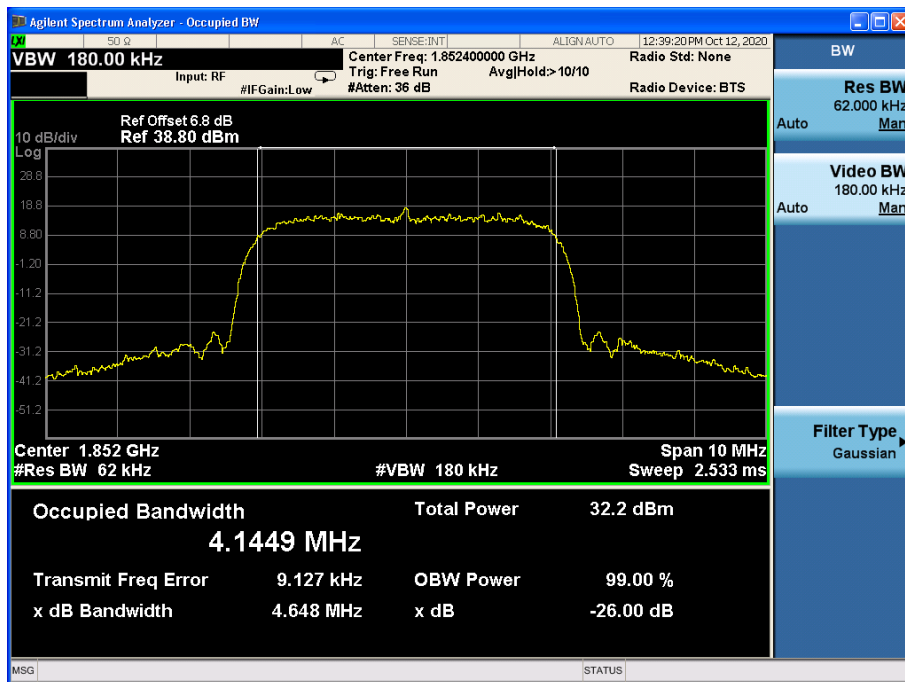


Channel 9400

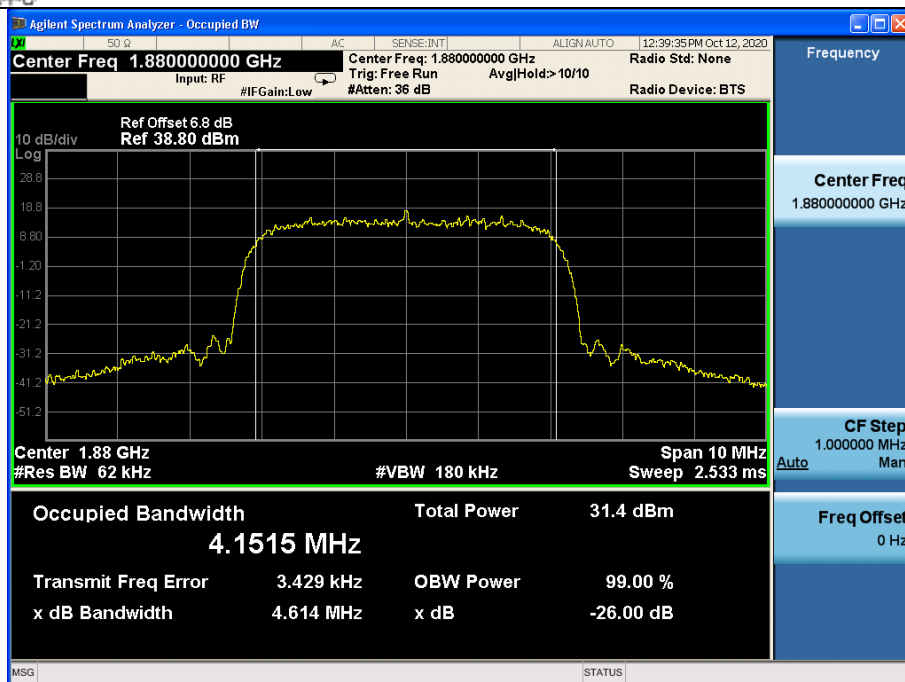


Channel 9538

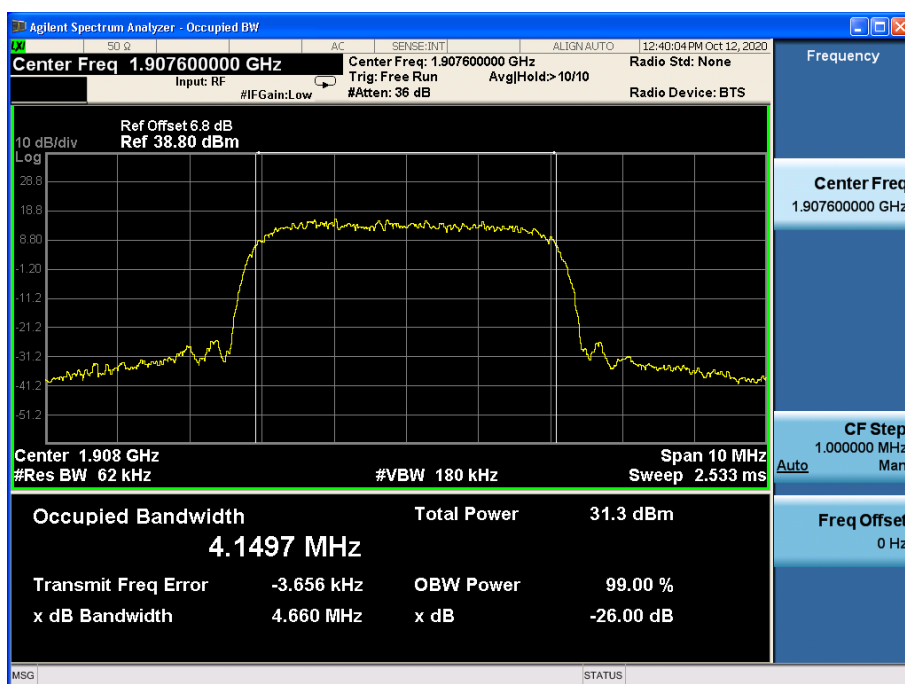
HSUPA Mode:



Channel 9262



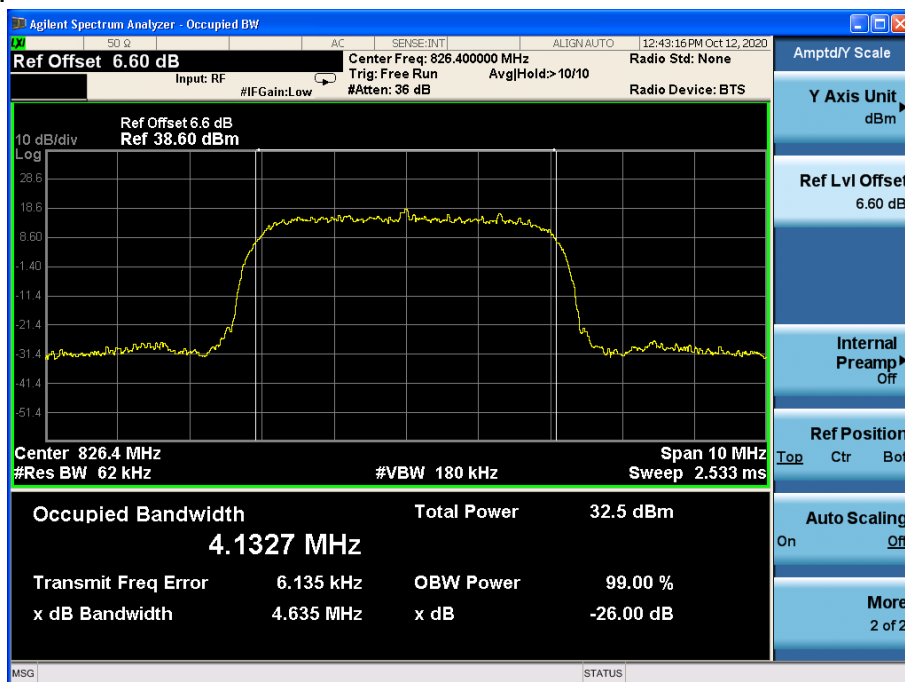
Channel 9400



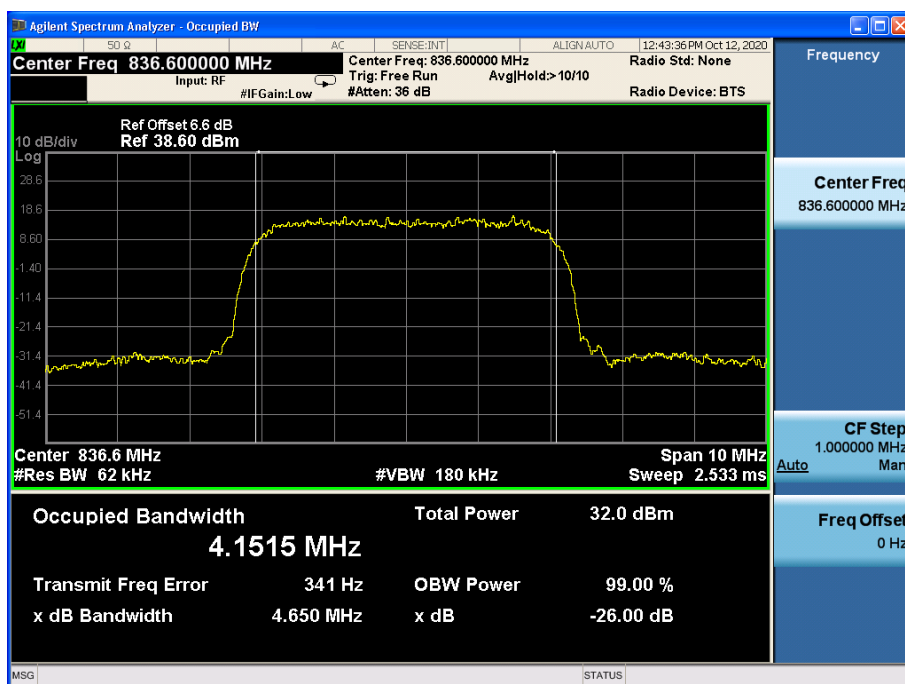
Channel 9538

WCDMA band V

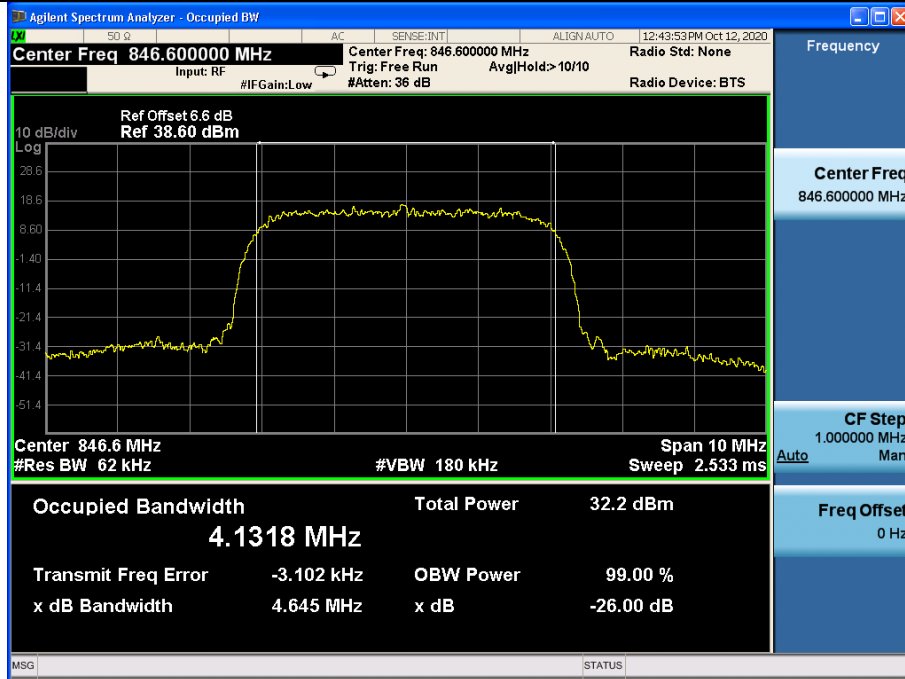
REL99 Mode:



Channel 4132

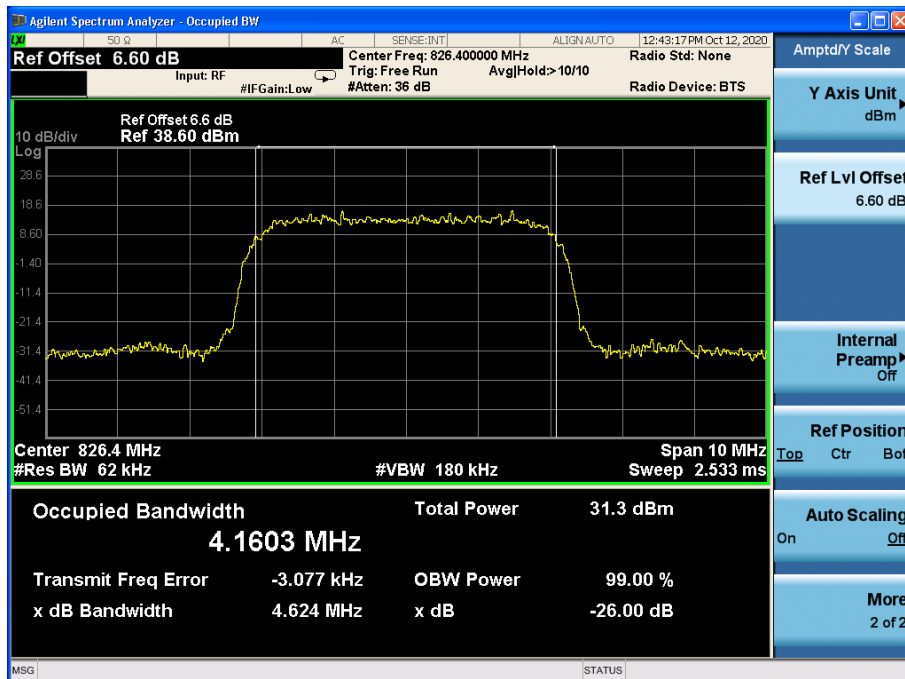


Channel 4183

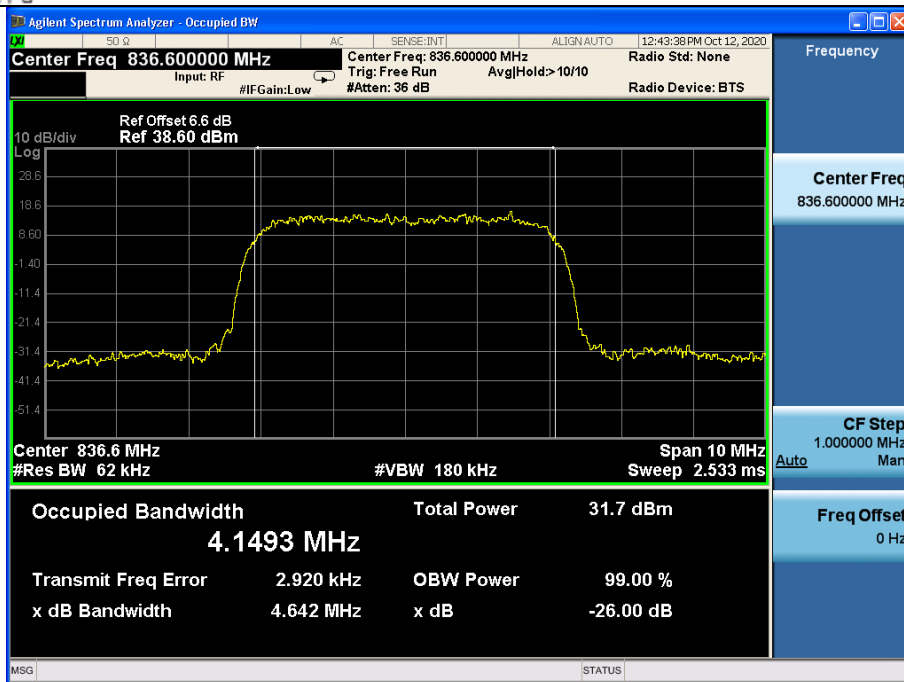


Channel 4233

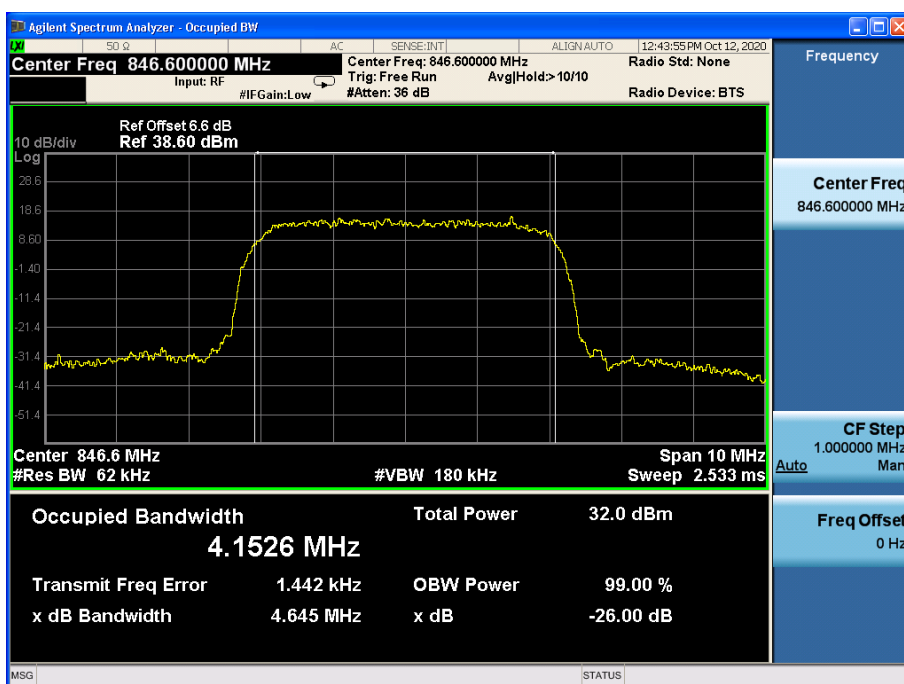
HSUPA Mode:



Channel 4132



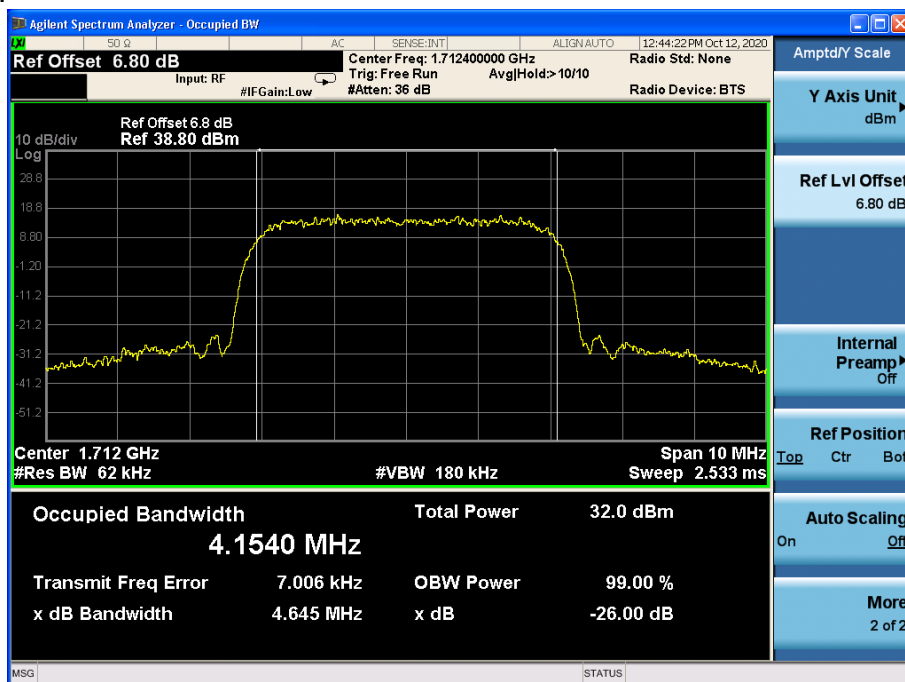
Channel 4183



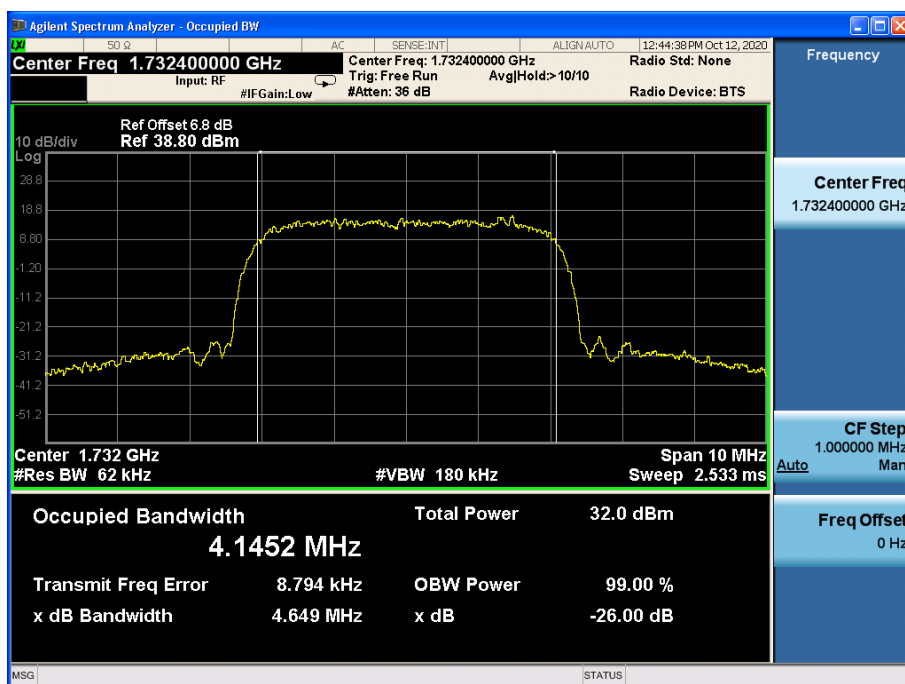
Channel 4233

WCDMA band IV

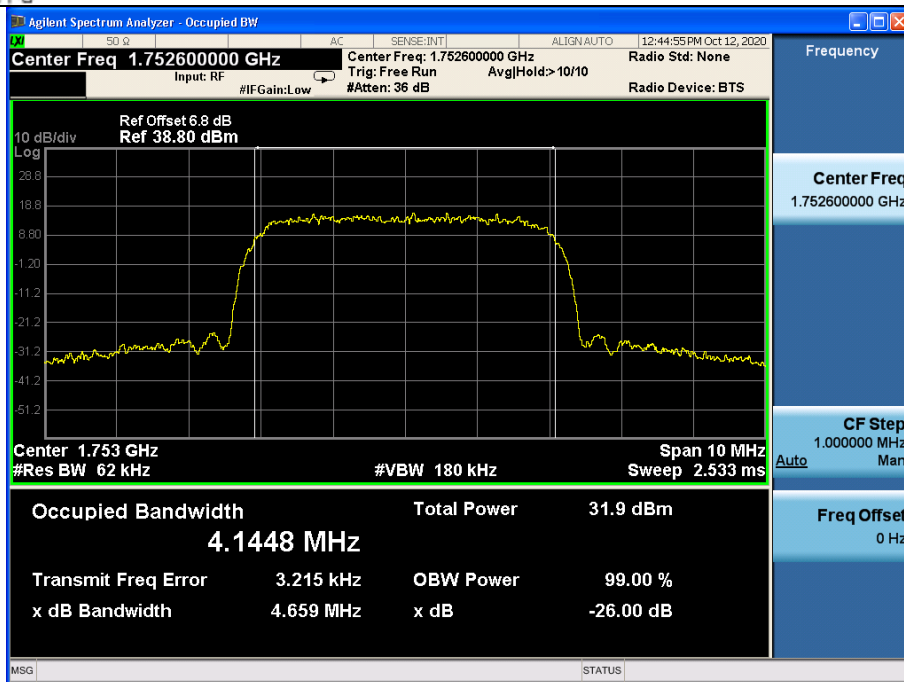
REL99 Mode:



Channel 1312

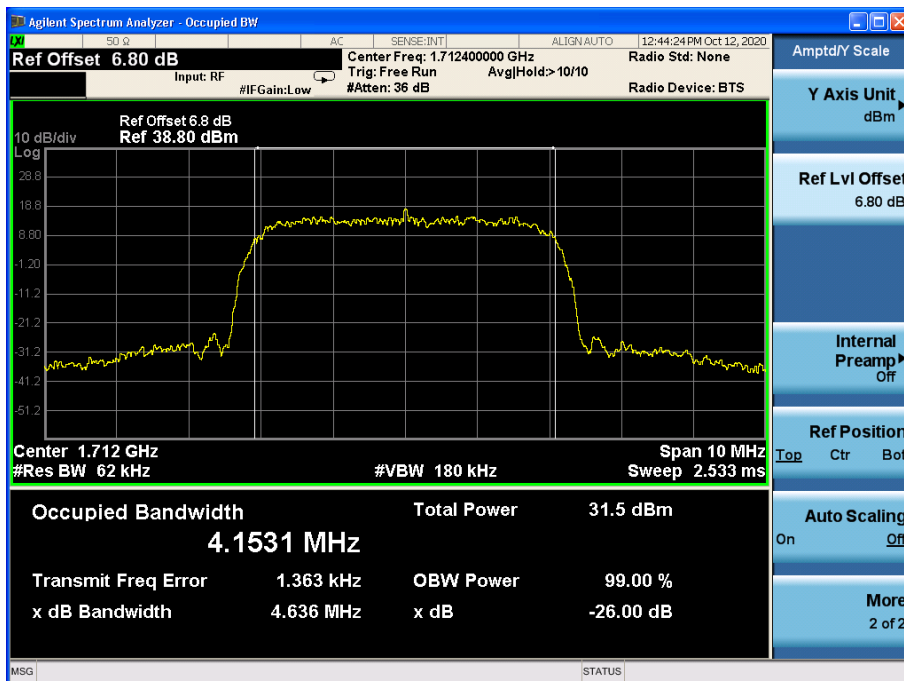


Channel 1412

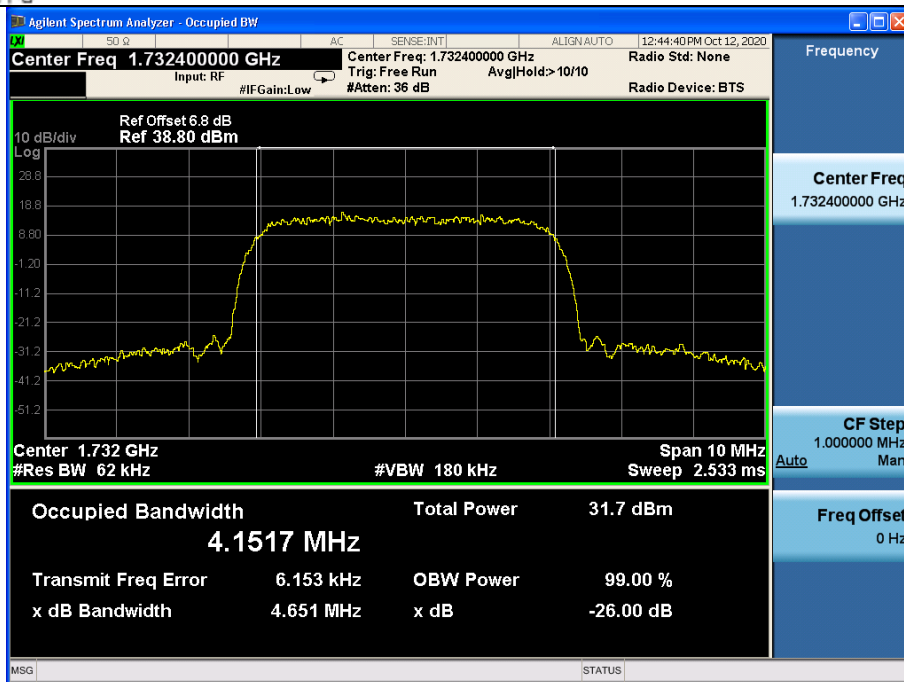


Channel 1513

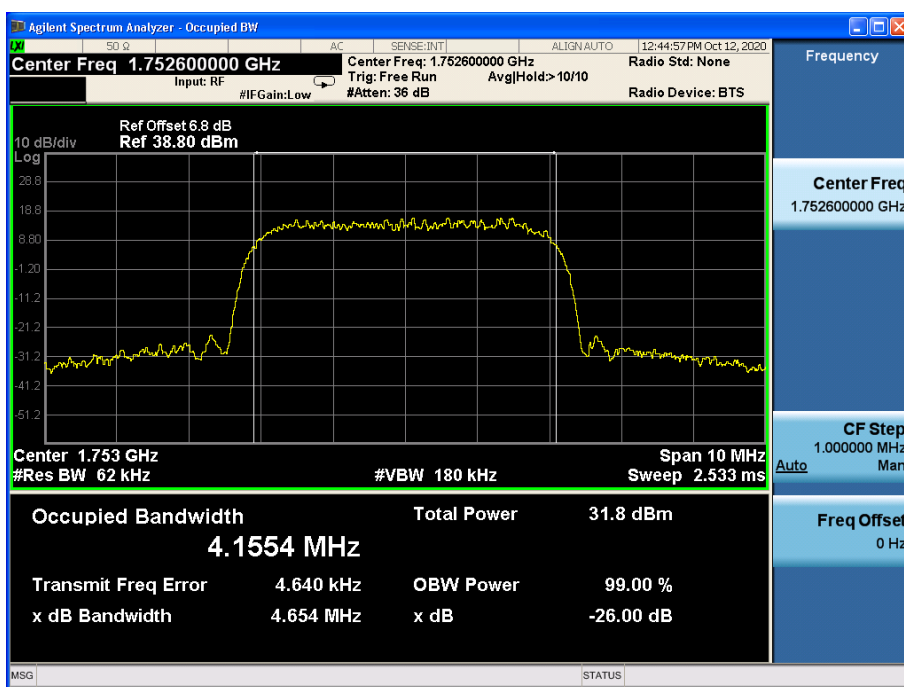
HSUPA Mode:



Ch7annel 1312



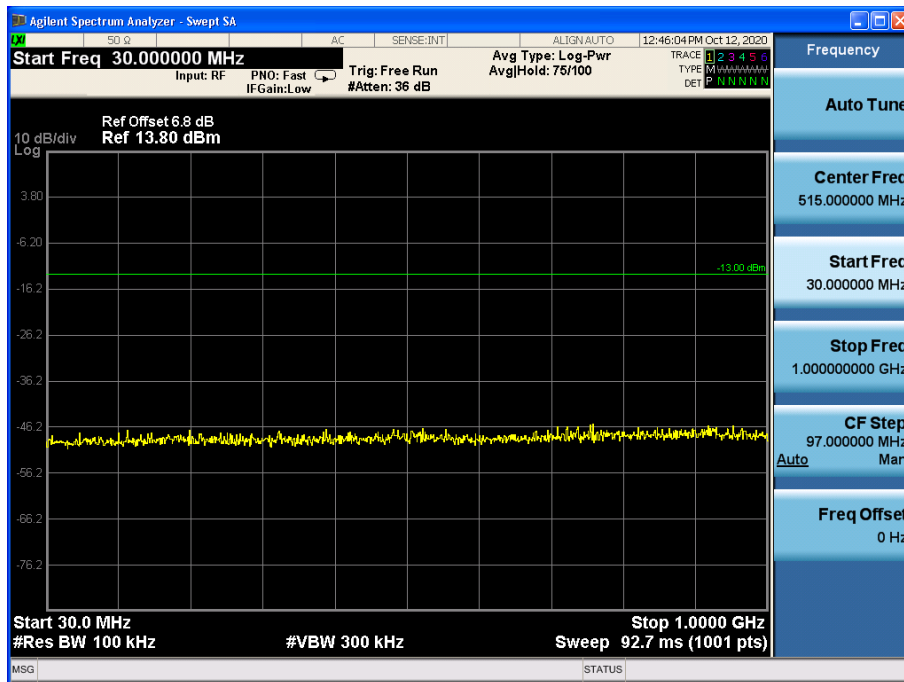
Channel 1412



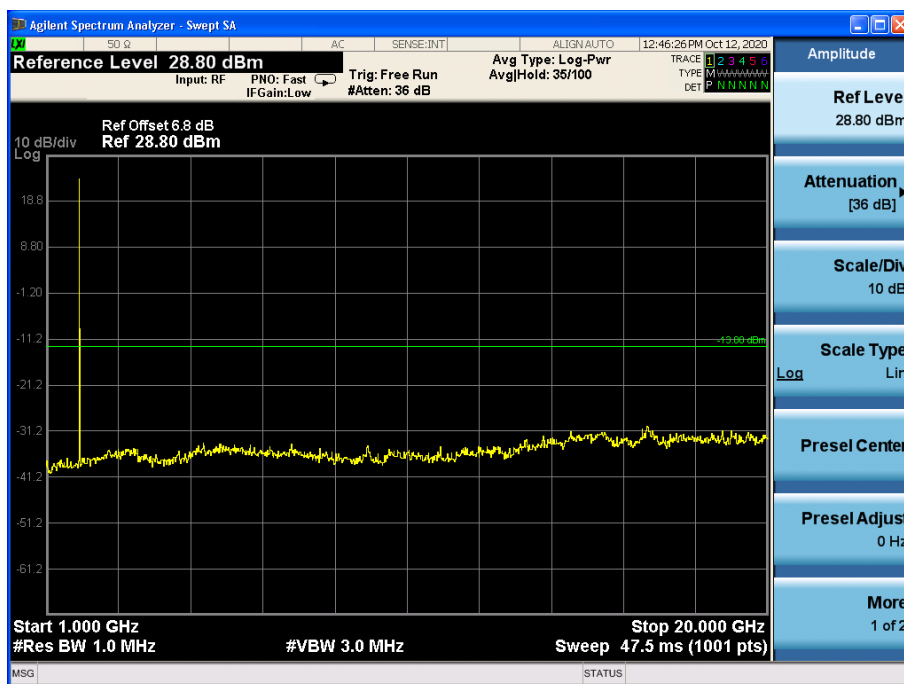
Channel 1513

Spurious Emissions at antenna terminal WCDMA band II

REL99 Mode:



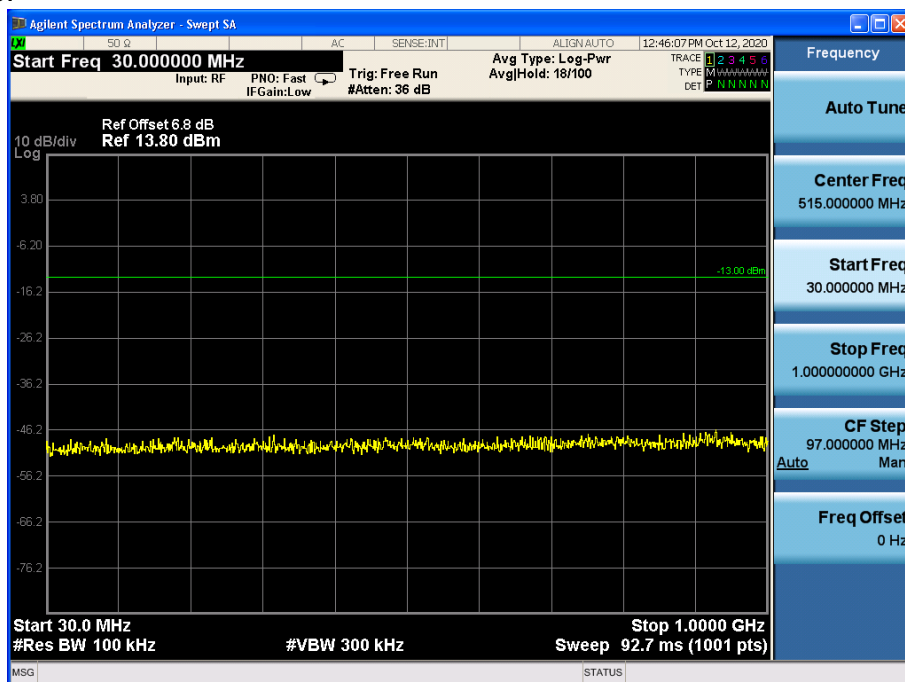
Channel 9400, 30MHz~1GHz



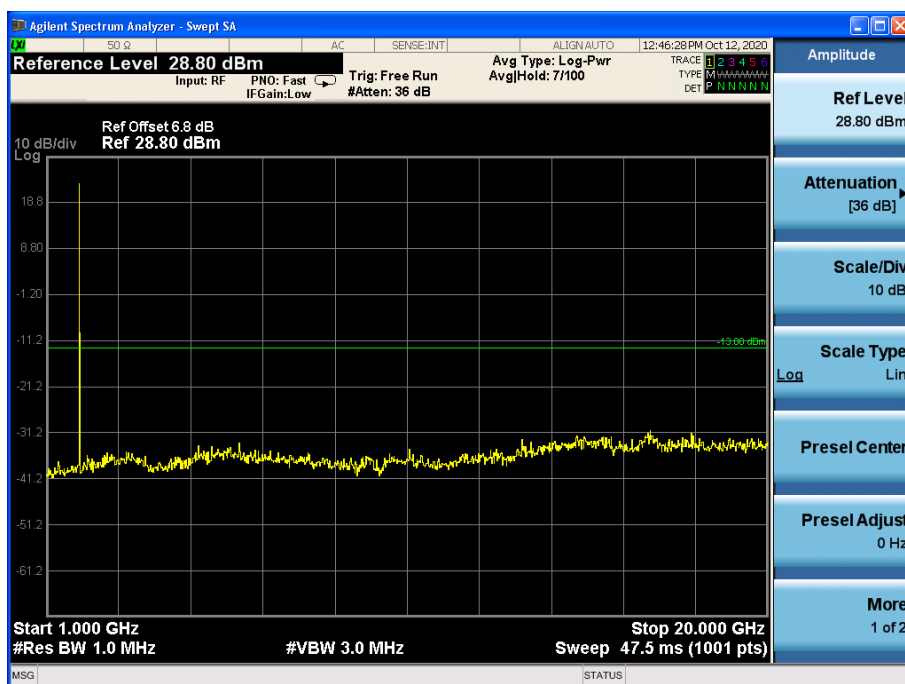
Channel 9400, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSUPA Mode:



Channel 9400, 30MHz~1GHz

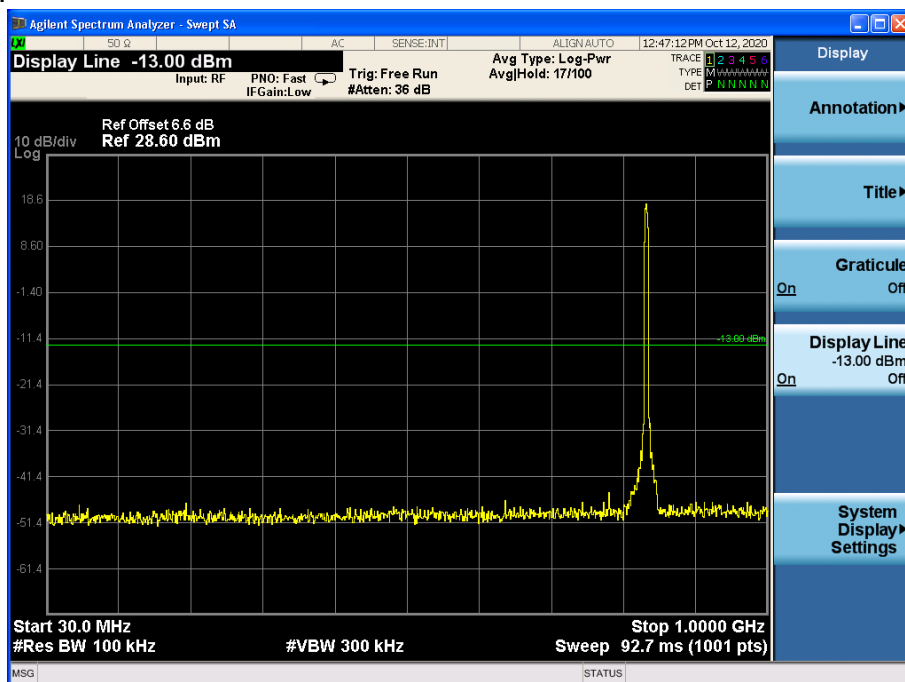


Channel 9400, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

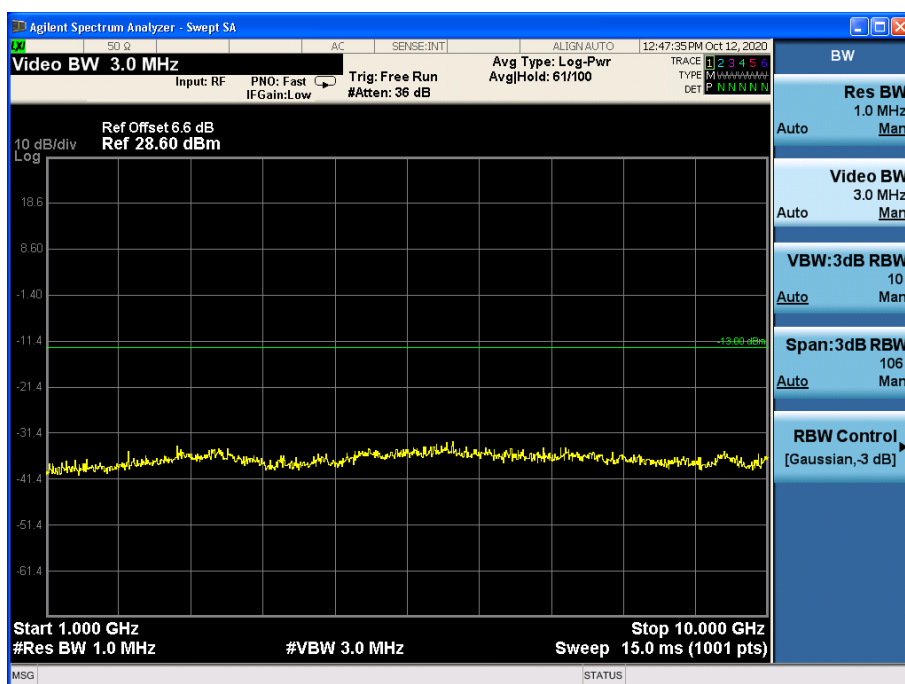
WCDMA band V

REL99 Mode:



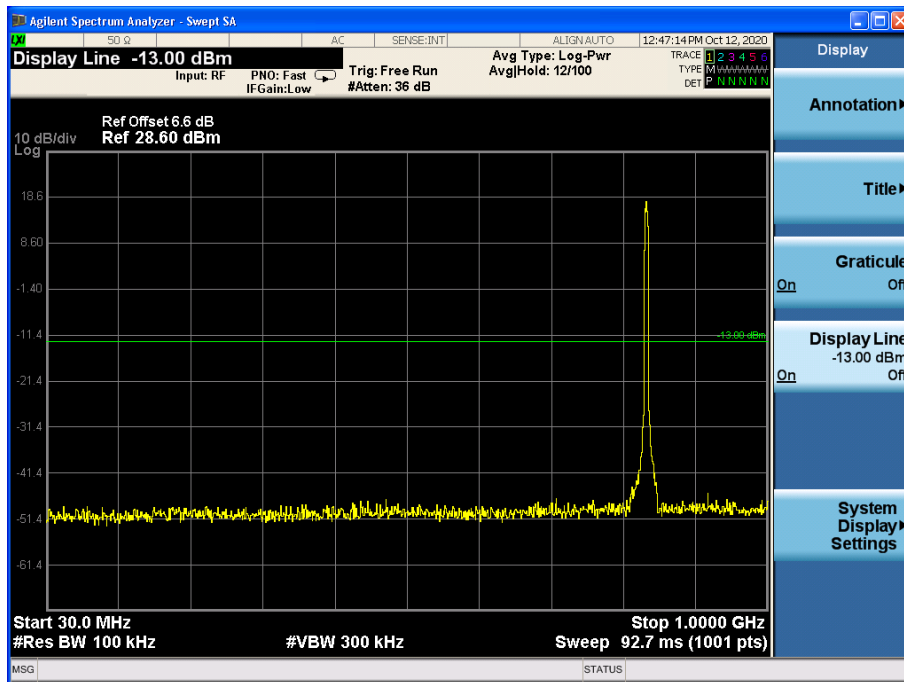
Channel 4183, 30MHz~1GHz

Note: The signal beyond the limit is the signal transmitted by EUT.



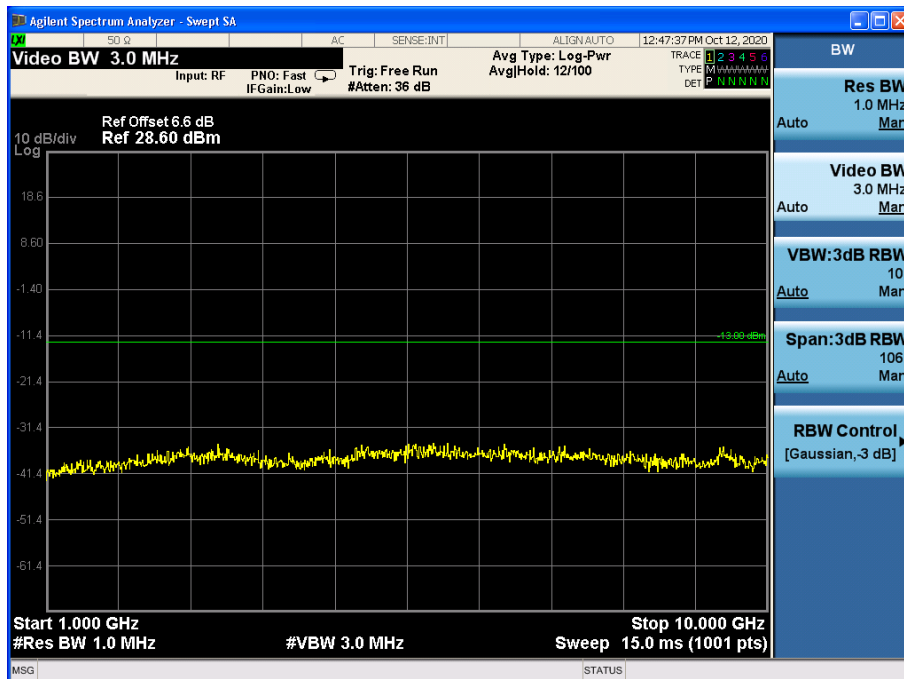
Channel 4183, 1GHz~10GHz

HSUPA Mode:



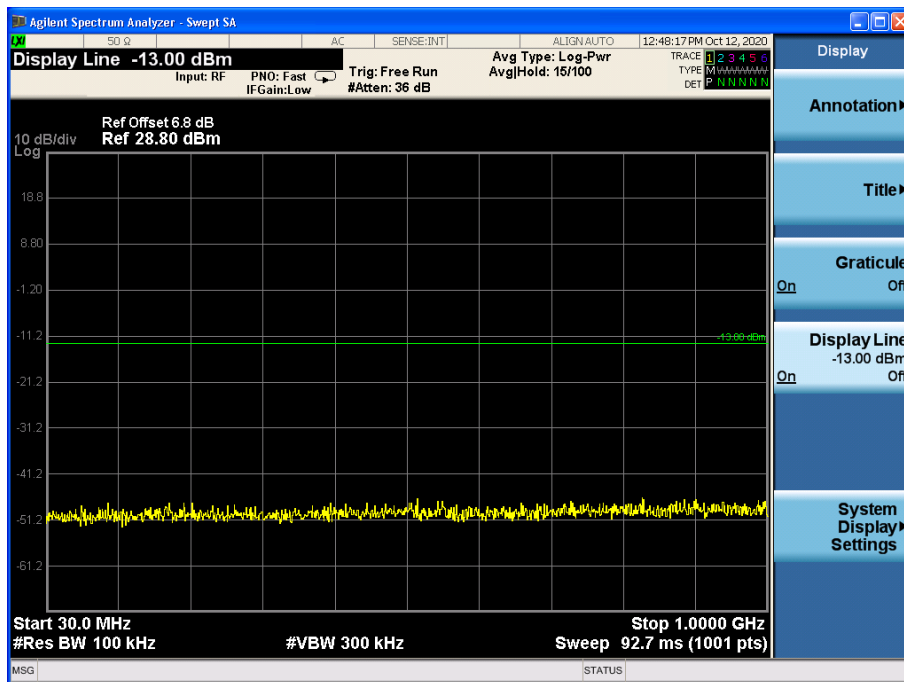
Channel 4183, 30MHz~1GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

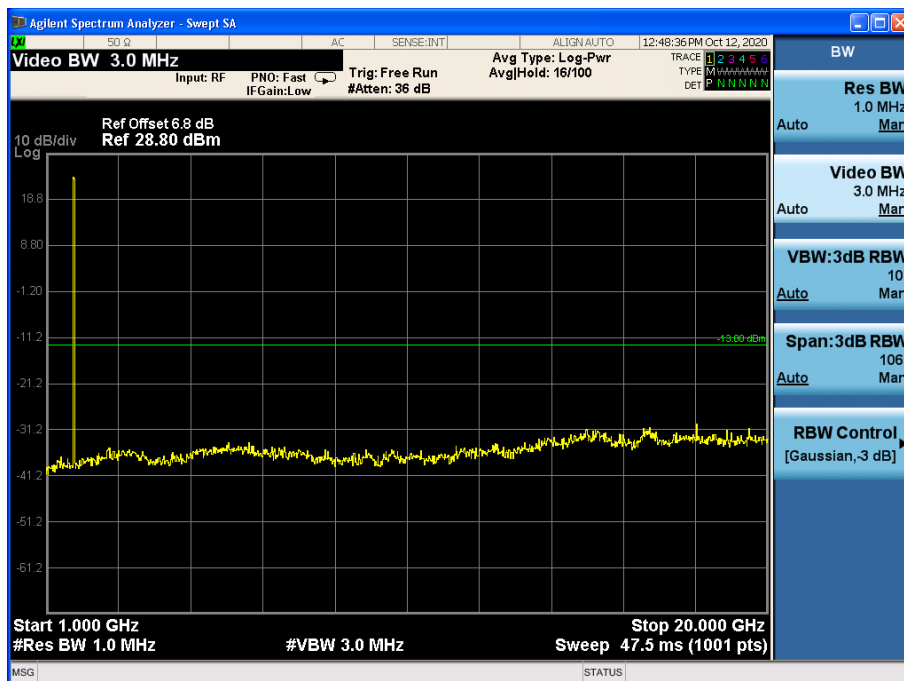


Channel 4183, 1GHz~10GHz

WCDMA band IV
REL99 Mode:



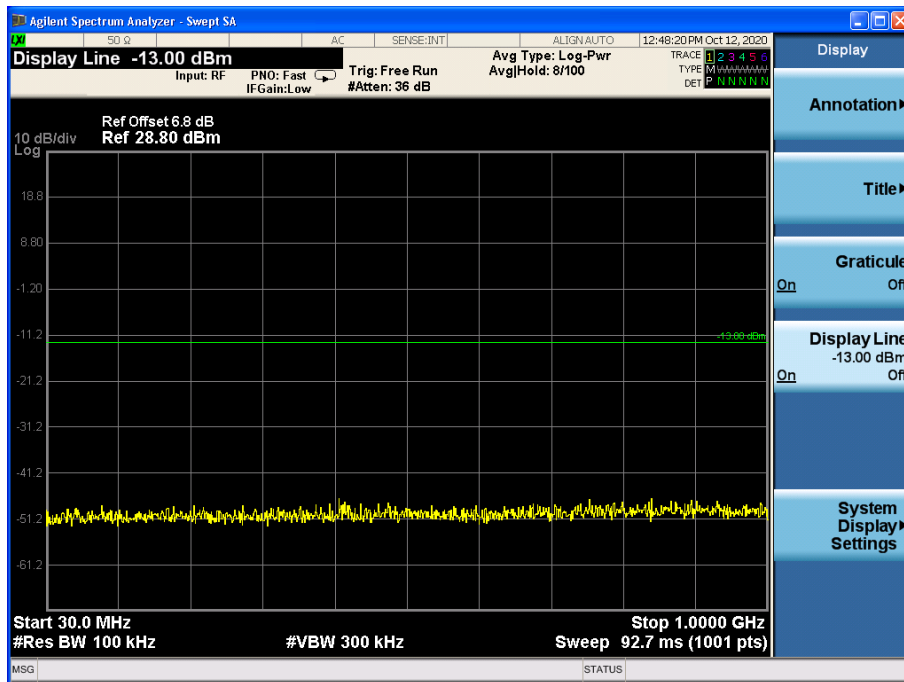
Channel 1412, 30MHz~1GHz



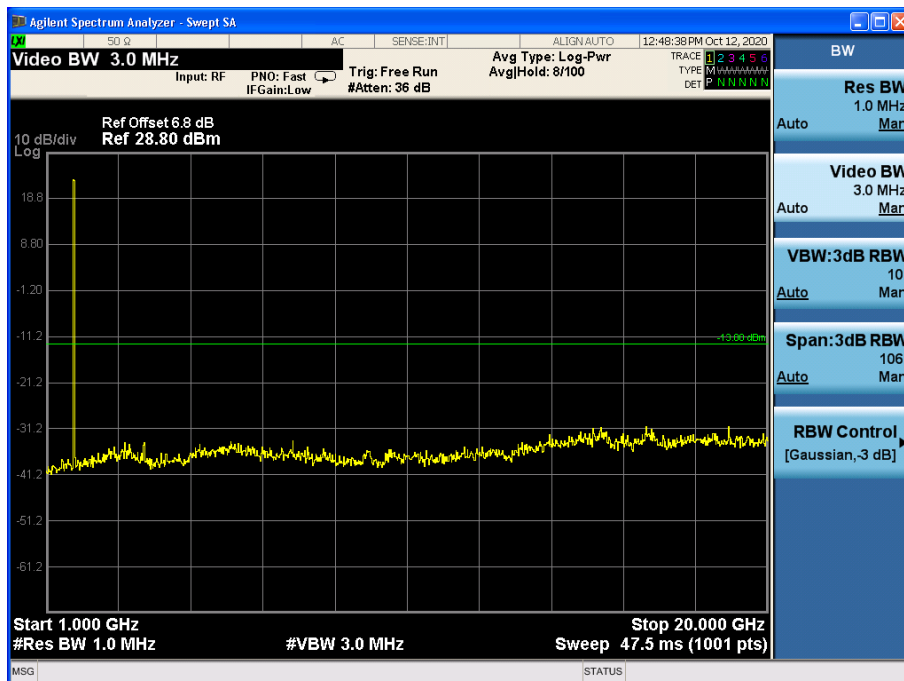
Channel 1412, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

HSUPA Mode:



Channel 1412, 30MHz~1GHz



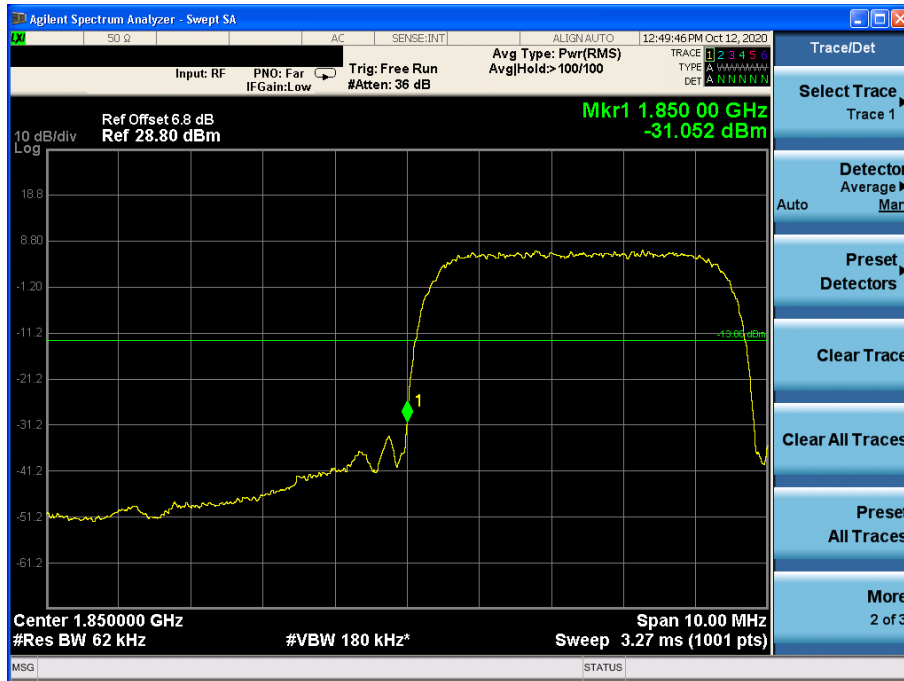
Channel 1412, 1GHz~20GHz

Note: The signal beyond the limit is the signal transmitted by EUT.

Band Edges Compliance

WCDMA band II

REL99 Mode:

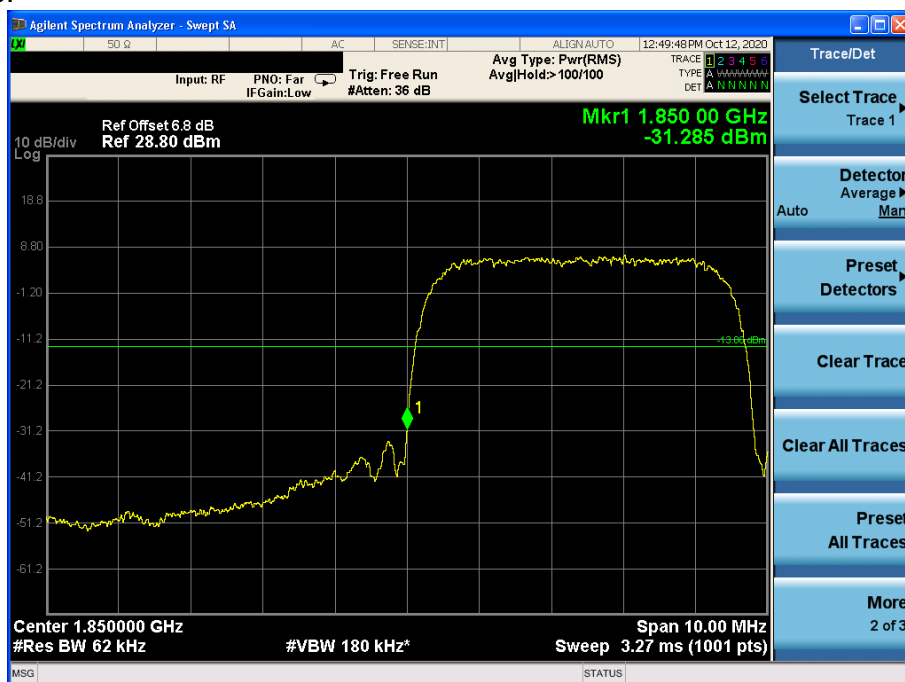


Channel 9262



Channel 9538

HSUPA Mode:



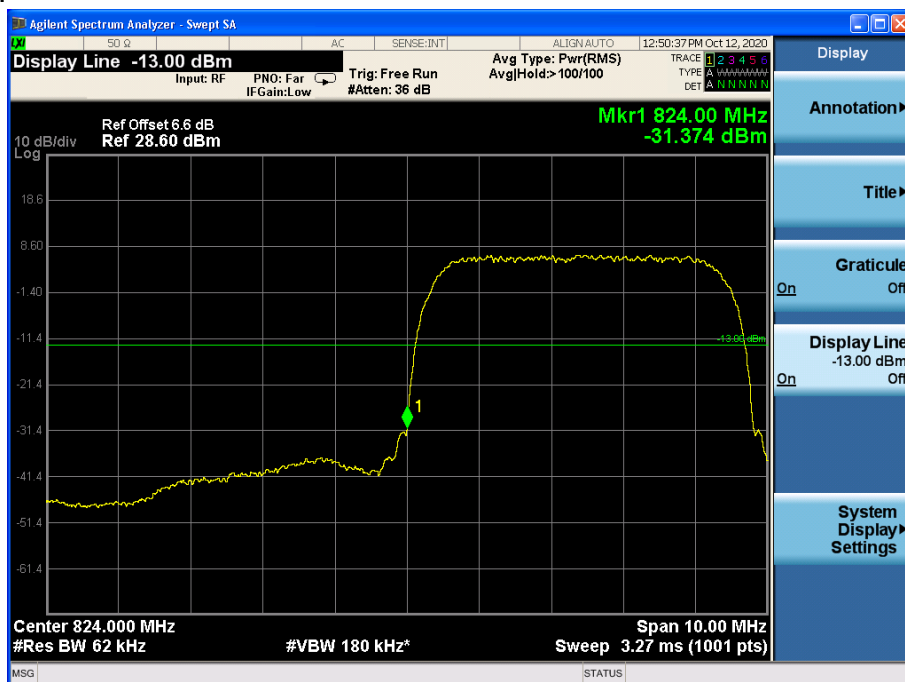
Channel 9262



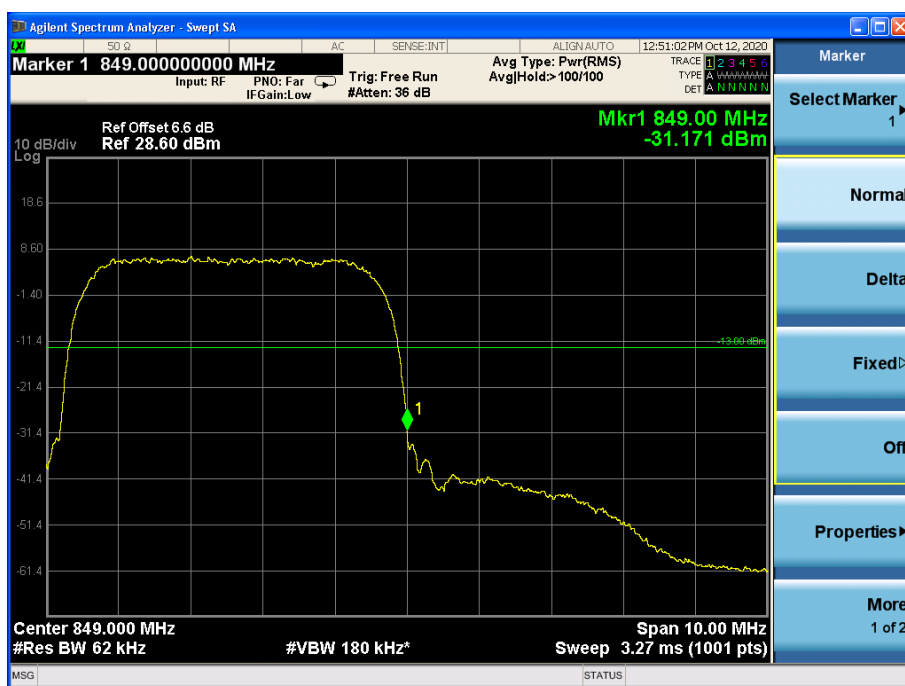
Channel 9538

WCDMA band V

REL99 Mode:

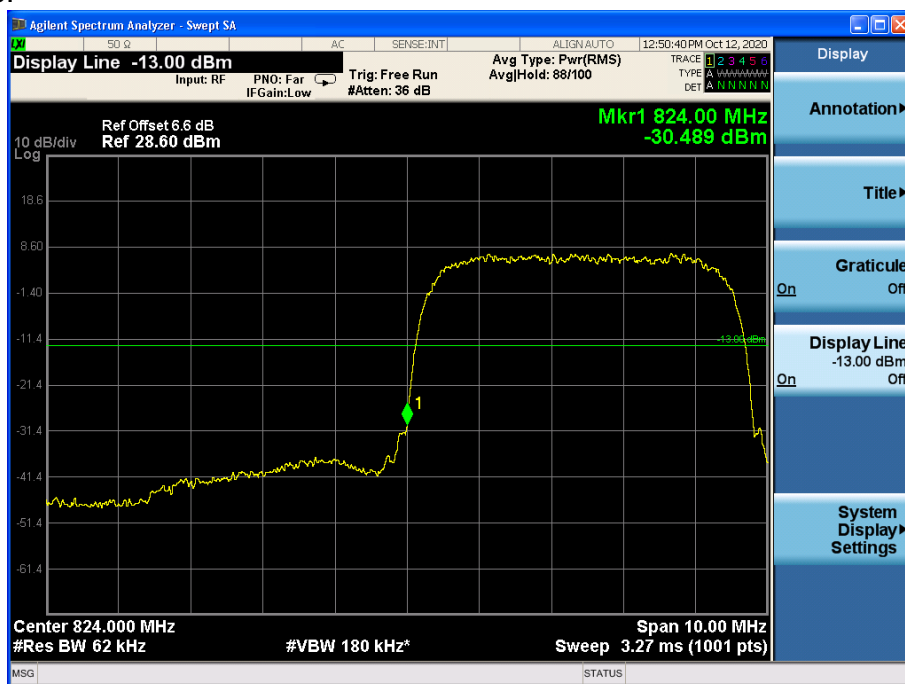


Channel 4132

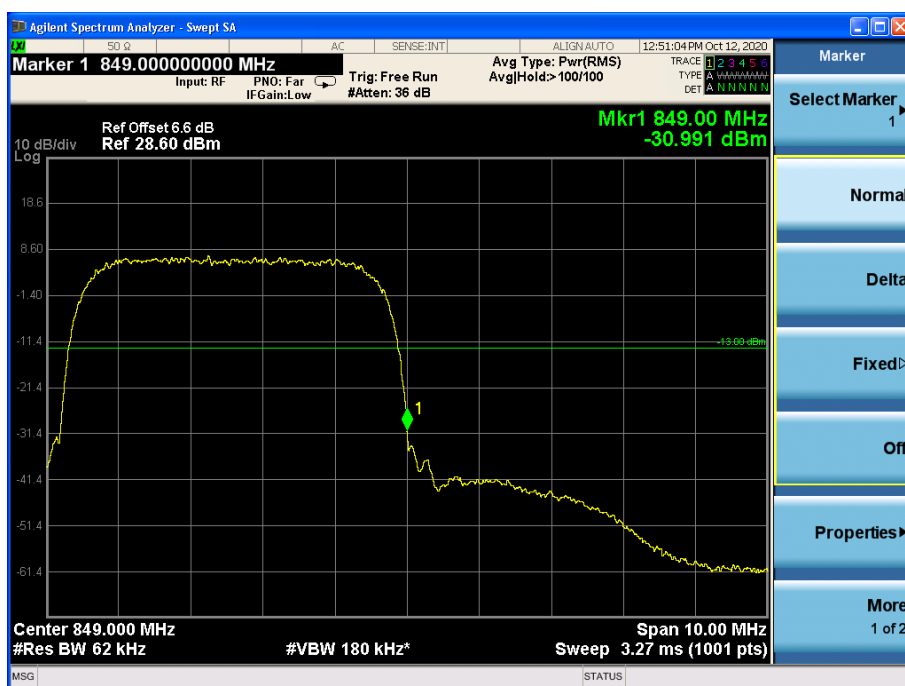


Channel 4233

HSUPA Mode:



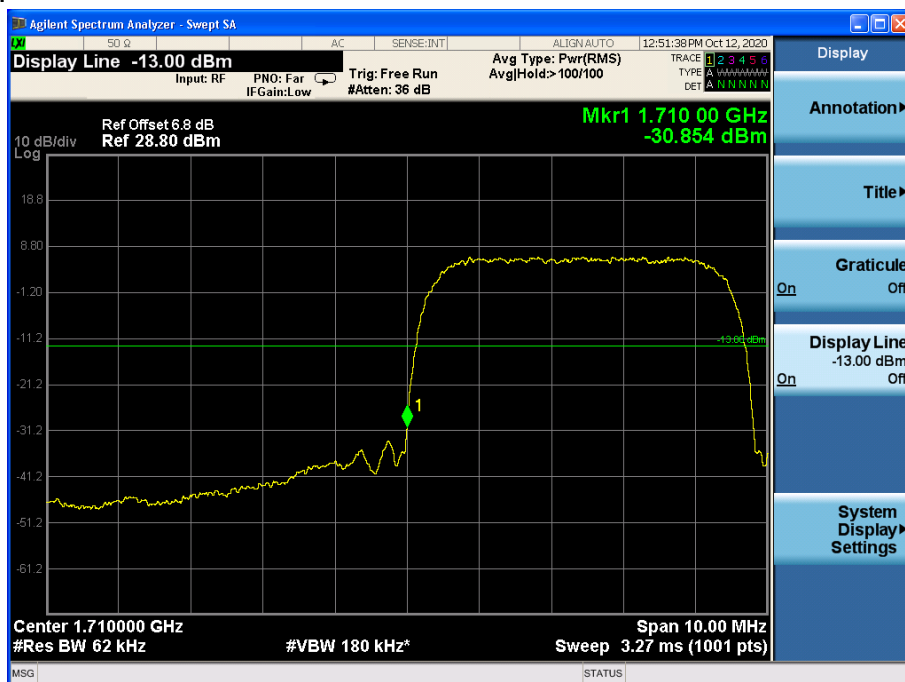
Channel 4132



Channel 4233

WCDMA band IV

REL99 Mode:

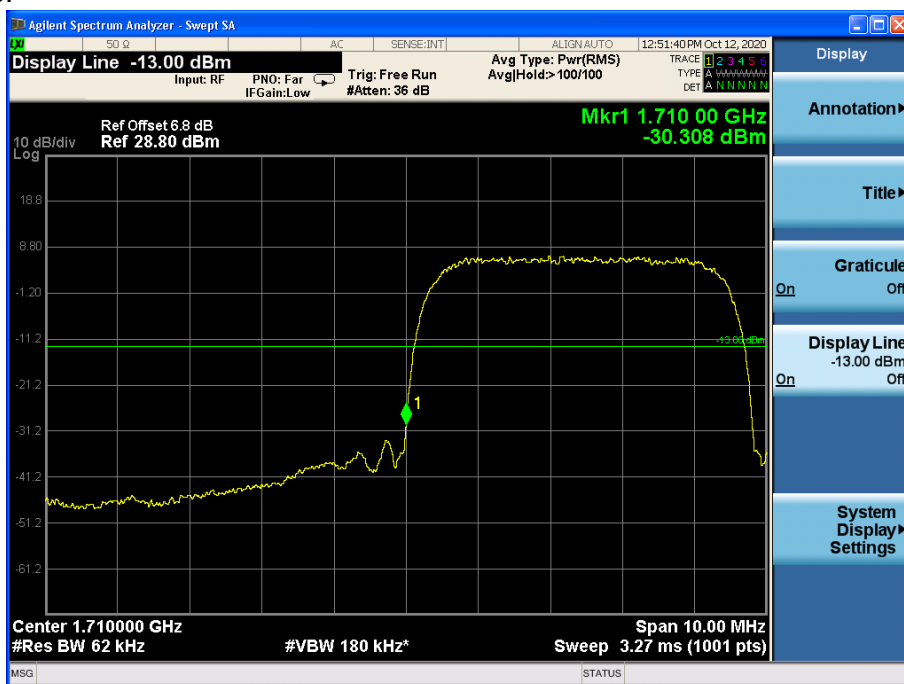


Channel 1312

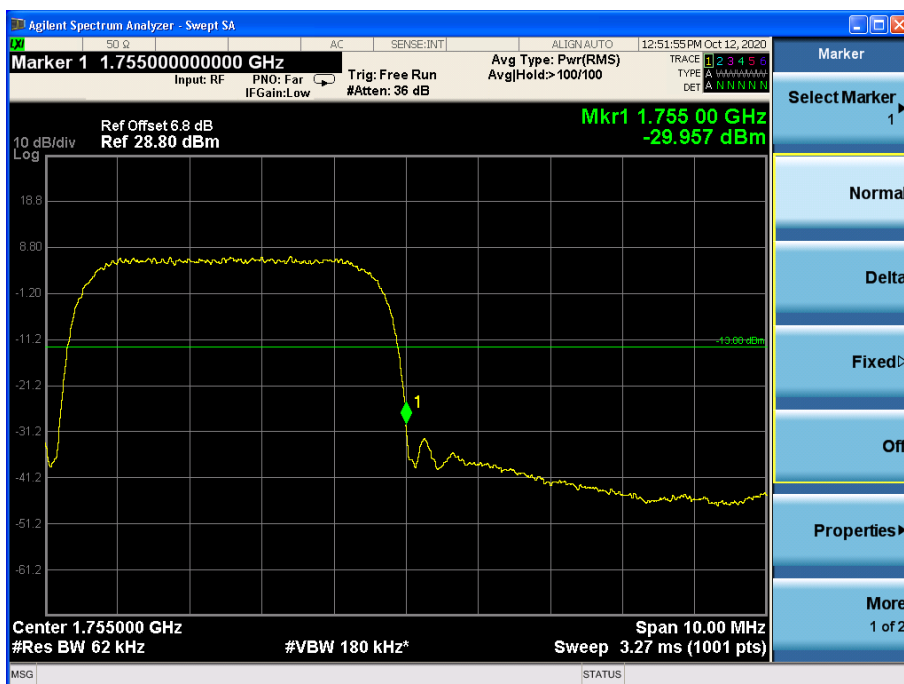


Channel 1513

HSUPA Mode:



Channel 1312



Channel 1513

Frequency Stability

WCDMA band II

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
-10	-0.068	0.025	0.064
0	-0.088	-0.007	0.088
+10	-0.039	0.041	-0.033
+20	0.000	0.000	0.000
+30	-0.064	-0.072	0.059
+40	0.062	0.038	0.057
+50	-0.086	-0.069	-0.058
+55	0.096	-0.005	-0.033
Voltage	Test Result (ppm)@NT		
	Channel 9262	Channel 9400	Channel 9538
LV	-0.033	0.047	0.078
HV	0.033	0.065	0.007

HSUPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 9262	Channel 9400	Channel 9538
-10	-0.077	0.049	-0.075
0	0.026	-0.085	-0.032
+10	-0.052	0.007	-0.037
+20	0.000	0.000	0.000
+30	-0.036	0.061	0.094
+40	0.095	-0.079	0.096
+50	-0.045	0.056	-0.089
+55	0.035	-0.094	-0.061
Voltage	Test Result (ppm)NT		
	Channel 9262	Channel 9400	Channel 9538
LV	0.050	0.005	-0.012
HV	-0.006	0.075	0.055

WCDMA band V

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-10	-0.027	-0.003	-0.027
0	-0.084	0.077	-0.075
+10	0.084	-0.026	-0.025
+20	0.000	0.000	0.000
+30	0.078	0.020	-0.008
+40	-0.067	-0.062	-0.036
+50	-0.053	-0.034	-0.025
+55	0.000	0.020	-0.038
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	-0.023	0.082	-0.032
HV	-0.019	-0.073	0.020

HSUPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 4132	Channel 4183	Channel 4233
-10	0.045	0.052	0.086
0	0.073	-0.057	0.059
+10	-0.039	-0.099	0.059
+20	0.000	0.000	0.000
+30	-0.061	-0.015	0.086
+40	-0.020	-0.019	0.022
+50	-0.003	0.067	0.050
+55	-0.018	0.031	0.069
Voltage	Test Result (ppm)@NT		
	Channel 4132	Channel 4183	Channel 4233
LV	-0.062	0.017	0.082
HV	0.030	-0.016	0.100

WCDMA band IV

REL99 Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1412	Channel 1513
-10	0.089	0.064	0.000
0	-0.054	0.001	-0.084
+10	0.080	-0.090	0.093
+20	0.000	0.000	0.000
+30	-0.022	0.078	0.069
+40	0.023	-0.008	-0.003
+50	-0.018	-0.094	0.091
+55	-0.010	0.032	-0.085
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1412	Channel 1513
LV	-0.063	-0.090	0.098
HV	-0.074	-0.001	-0.074

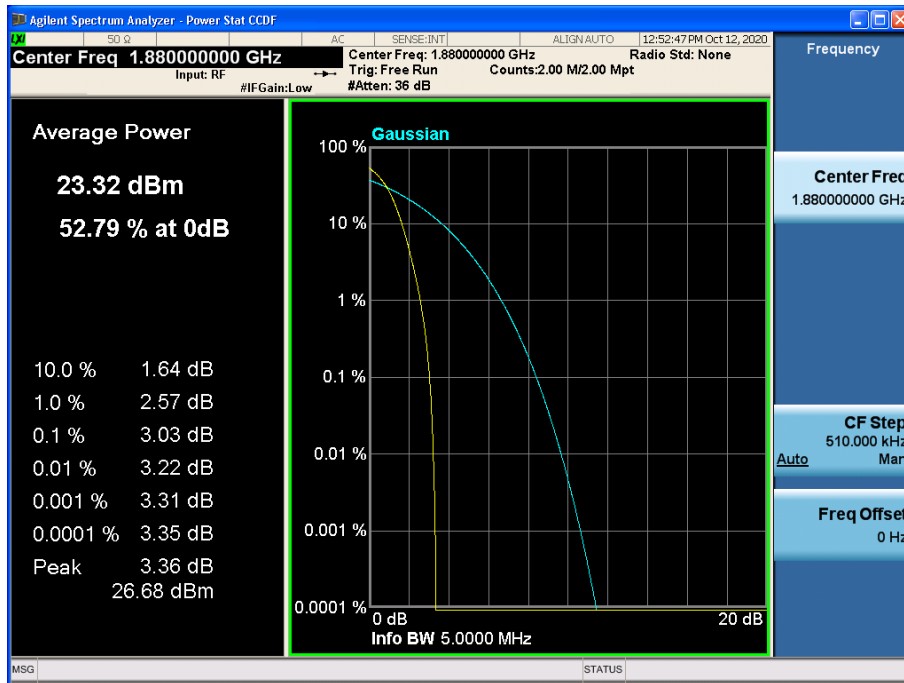
HSUPA Mode:

Temperature(°C)	Test Result (ppm)@NV		
	Channel 1312	Channel 1412	Channel 1513
-10	-0.082	0.043	0.023
0	-0.061	-0.030	0.097
+10	-0.095	-0.036	0.011
+20	0.000	0.000	0.000
+30	0.041	-0.065	-0.074
+40	-0.051	0.099	-0.088
+50	0.066	-0.053	0.074
+55	-0.053	-0.098	-0.012
Voltage	Test Result (ppm)@NT		
	Channel 1312	Channel 1412	Channel 1513
LV	-0.032	0.089	-0.086
HV	-0.039	-0.098	0.059

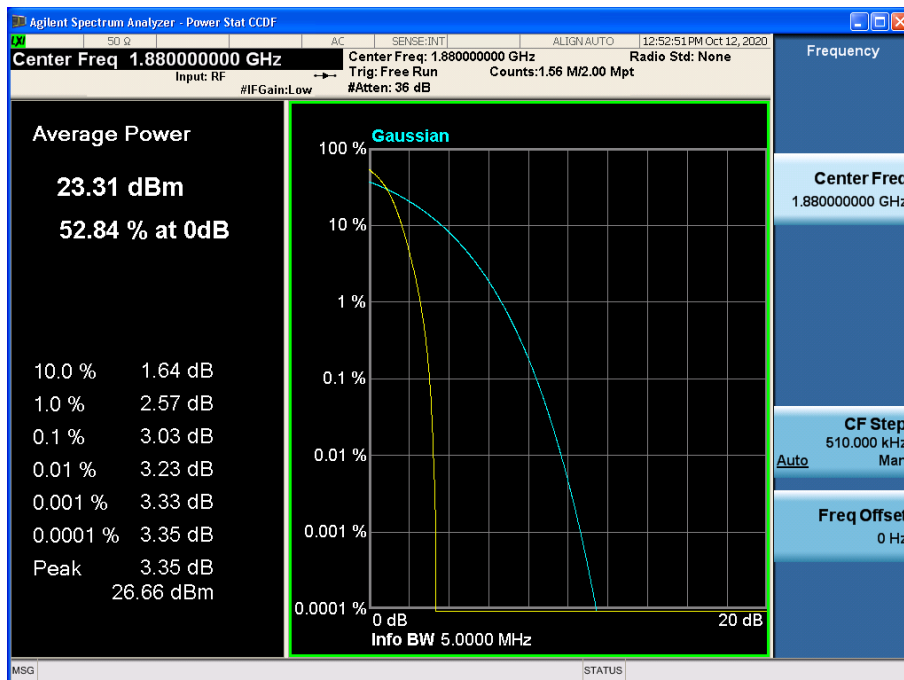
Peak-Average Ratio

WCDMA band II

REL99 Mode:

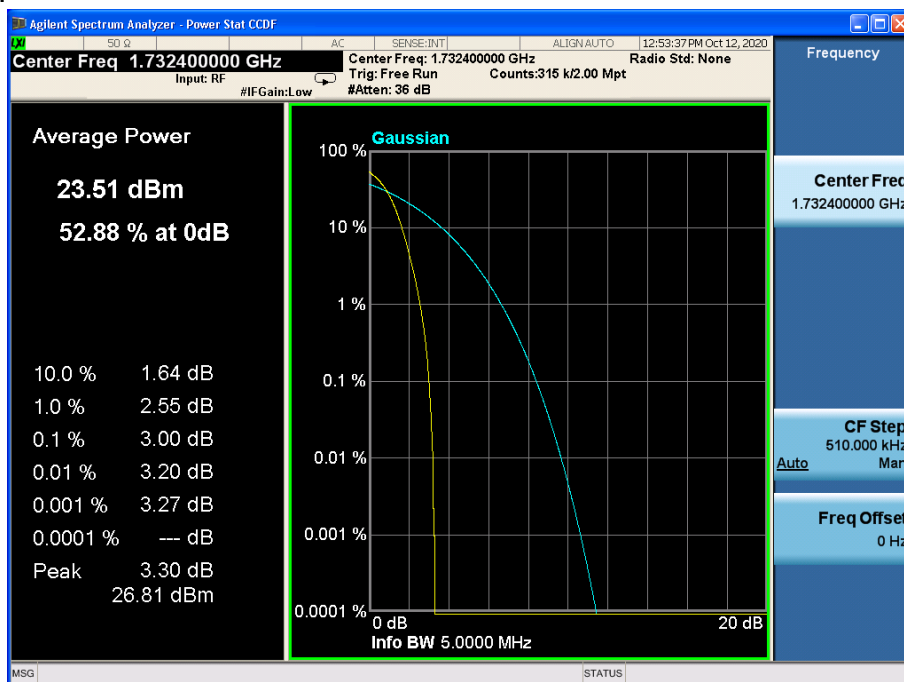


HSUPA Mode:

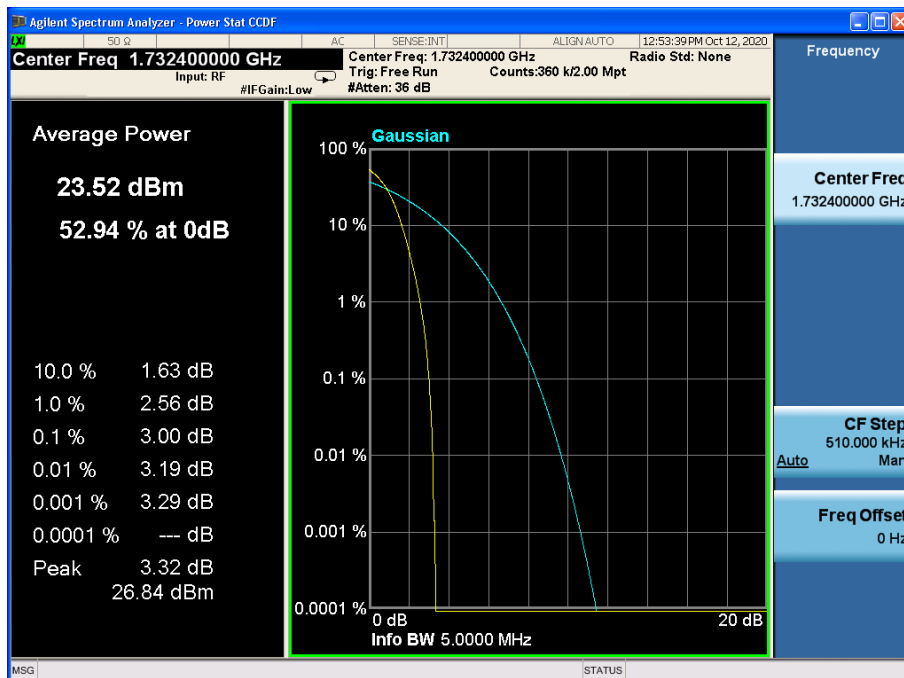


WCDMA band IV

REL99 Mode:

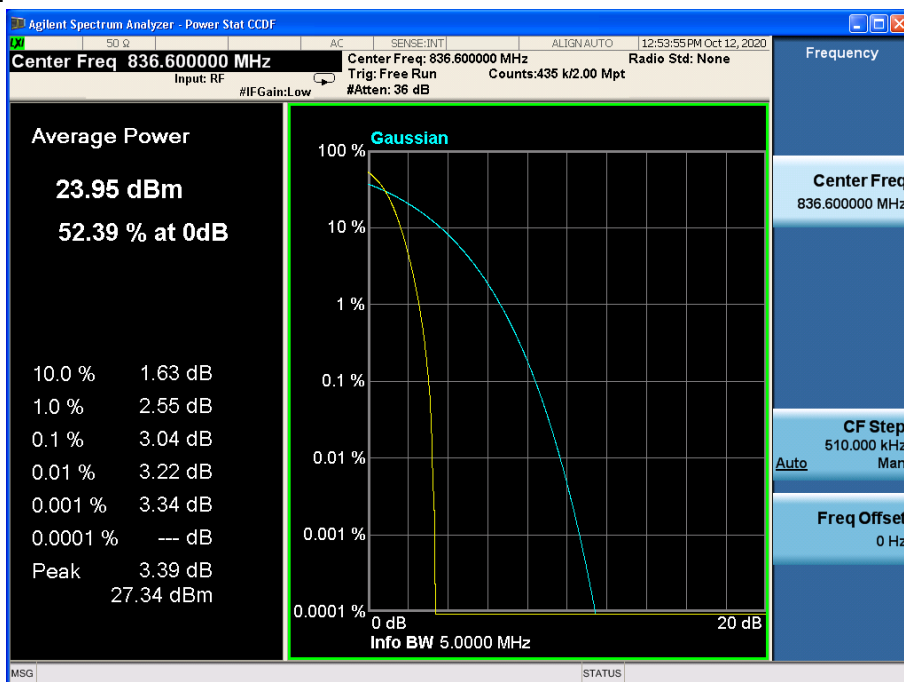


HSUPA Mode:

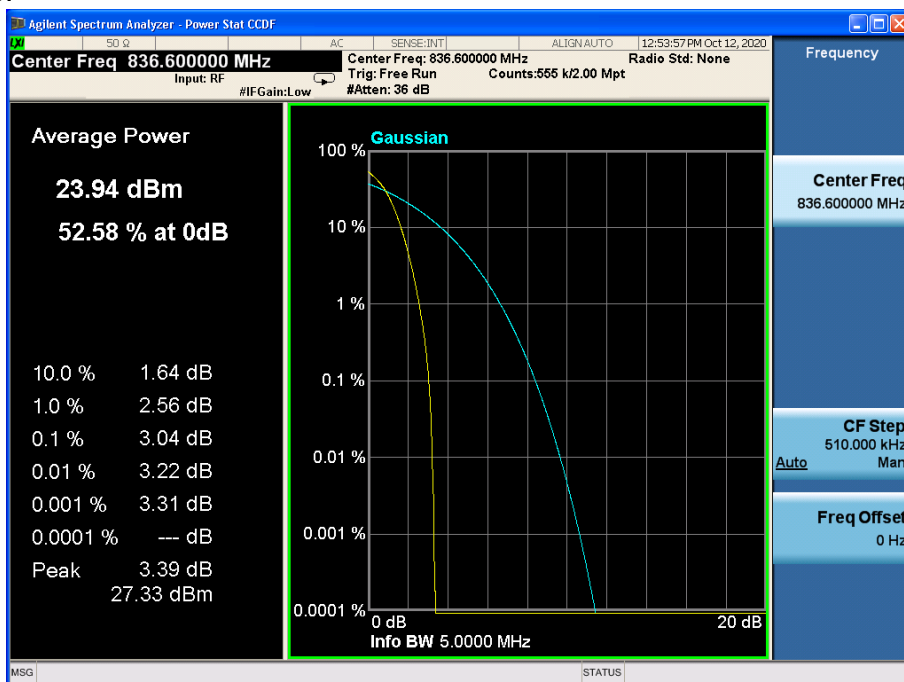


WCDMA band V

REL99 Mode:



HSUPA Mode:



APPENDIX B – TEST DATA OF RADIATED EMISSION

Effective Radiated Power and Effective Isotropic Radiated Power
WCDMA band II

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	EIRP/ ERP (dBm)	EIRP/ ERP (W)
Release 99	RMC,12.2kbps	1852.4	9262	23.86	22.16	0.164
		1880.0	9400	23.88	22.18	0.165
		1907.6	9538	23.93	22.23	0.167
HSDPA	Subtest 1	1852.4	9262	22.28	20.58	0.114
		1880.0	9400	22.34	20.64	0.116
		1907.6	9538	22.35	20.65	0.116
	Subtest 2	1852.4	9262	22.32	20.62	0.115
		1880.0	9400	22.35	20.65	0.116
		1907.6	9538	22.37	20.67	0.117
	Subtest 3	1852.4	9262	22.28	20.58	0.114
		1880.0	9400	22.36	20.66	0.116
		1907.6	9538	22.39	20.69	0.117
	Subtest 4	1852.4	9262	22.31	20.61	0.115
		1880.0	9400	22.32	20.62	0.115
		1907.6	9538	22.39	20.69	0.117
HSUPA	Subtest 1	1852.4	9262	22.29	20.59	0.115
		1880.0	9400	22.35	20.65	0.116
		1907.6	9538	22.37	20.67	0.117
	Subtest 2	1852.4	9262	22.31	20.61	0.115
		1880.0	9400	22.32	20.62	0.115
		1907.6	9538	22.36	20.66	0.116
	Subtest 3	1852.4	9262	22.27	20.57	0.114
		1880.0	9400	22.37	20.67	0.117
		1907.6	9538	22.41	20.71	0.118
	Subtest 4	1852.4	9262	22.28	20.58	0.114
		1880.0	9400	22.36	20.66	0.116
		1907.6	9538	22.35	20.65	0.116
	Subtest 5	1852.4	9262	22.26	20.56	0.114
		1880.0	9400	22.38	20.68	0.117
		1907.6	9538	22.37	20.67	0.117

WCDMA band V

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	EIRP/ ERP (dBm)	EIRP/ ERP (W)
Release 99	RMC,12.2kbps	826.4	4132	24.12	19.87	0.097
		836.6	4183	24.18	19.93	0.098
		846.6	4233	24.13	19.88	0.097
HSDPA	Subtest 1	826.4	4132	22.56	18.31	0.068
		836.6	4183	22.65	18.40	0.069
		846.6	4233	22.63	18.38	0.069
	Subtest 2	826.4	4132	22.60	18.35	0.068
		836.6	4183	22.68	18.43	0.070
		846.6	4233	22.61	18.36	0.069
	Subtest 3	826.4	4132	22.58	18.33	0.068
		836.6	4183	22.61	18.36	0.069
		846.6	4233	22.54	18.29	0.067
	Subtest 4	826.4	4132	22.61	18.36	0.069
		836.6	4183	22.65	18.40	0.069
		846.6	4233	22.53	18.28	0.067
HSUPA	Subtest 1	826.4	4132	22.57	18.32	0.068
		836.6	4183	22.58	18.33	0.068
		846.6	4233	22.59	18.34	0.068
	Subtest 2	826.4	4132	22.59	18.34	0.068
		836.6	4183	22.61	18.36	0.069
		846.6	4233	22.62	18.37	0.069
	Subtest 3	826.4	4132	22.58	18.33	0.068
		836.6	4183	22.63	18.38	0.069
		846.6	4233	22.61	18.36	0.069
	Subtest 4	826.4	4132	22.59	18.34	0.068
		836.6	4183	22.58	18.33	0.068
		846.6	4233	22.58	18.33	0.068
	Subtest 5	826.4	4132	22.54	18.29	0.067
		836.6	4183	22.58	18.33	0.068
		846.6	4233	22.53	18.28	0.067

WCDMA band IV

Mode		Carrier frequency (MHz)	Channel No.	Conducted Power (dBm)	EIRP/ ERP (dBm)	EIRP/ ERP (W)
Release 99	RMC,12.2kbps	1712.4	1312	23.94	24.74	0.298
		1732.4	1412	23.90	24.70	0.295
		1752.6	1513	23.94	24.74	0.298
HSDPA	Subtest 1	1712.4	1312	22.37	23.17	0.207
		1732.4	1412	22.31	23.11	0.205
		1752.6	1513	22.36	23.16	0.207
	Subtest 2	1712.4	1312	22.42	23.22	0.210
		1732.4	1412	22.38	23.18	0.208
		1752.6	1513	22.37	23.17	0.207
	Subtest 3	1712.4	1312	22.43	23.23	0.210
		1732.4	1412	22.31	23.11	0.205
		1752.6	1513	22.44	23.24	0.211
	Subtest 4	1712.4	1312	22.40	23.20	0.209
		1732.4	1412	22.37	23.17	0.207
		1752.6	1513	22.39	23.19	0.208
HSUPA	Subtest 1	1712.4	1312	22.43	23.23	0.210
		1732.4	1412	22.39	23.19	0.208
		1752.6	1513	22.41	23.21	0.209
	Subtest 2	1712.4	1312	22.34	23.14	0.206
		1732.4	1412	22.38	23.18	0.208
		1752.6	1513	22.35	23.15	0.207
	Subtest 3	1712.4	1312	22.41	23.21	0.209
		1732.4	1412	22.40	23.20	0.209
		1752.6	1513	22.38	23.18	0.208
	Subtest 4	1712.4	1312	22.42	23.22	0.210
		1732.4	1412	22.30	23.10	0.204
		1752.6	1513	22.42	23.22	0.210
	Subtest 5	1712.4	1312	22.39	23.19	0.208
		1732.4	1412	22.33	23.13	0.206
		1752.6	1513	22.36	23.16	0.207

Radiated Spurious Emissions

WCDMA band II

Test result:

WCDMA Mode:

Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.71	-48.63	-13	Vertical
2779.88	-47.39	-13	Vertical
3725.13	-41.06	-13	Vertical
6677.15	-39.24	-13	Vertical
9961.54	-37.55	-13	Vertical
17818.80	-33.72	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.48	-49.31	-13	Vertical
2778.45	-47.61	-13	Vertical
3726.57	-40.67	-13	Vertical
6678.67	-40.12	-13	Vertical
9959.66	-37.31	-13	Vertical
17819.02	-34.39	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.76	-49.46	-13	Vertical
2781.94	-47.14	-13	Vertical
3724.49	-41.07	-13	Vertical
6675.26	-39.36	-13	Vertical
9959.49	-37.74	-13	Vertical
17819.12	-33.69	-13	Vertical

HSDPA/HSUPA Mode:
Channel 9262

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.91	-48.93	-13	Vertical
2780.80	-47.24	-13	Vertical
3725.27	-40.74	-13	Vertical
6677.08	-39.71	-13	Vertical
9959.46	-36.84	-13	Vertical
17819.64	-33.95	-13	Vertical

Channel 9400

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.25	-48.50	-13	Vertical
2779.80	-47.05	-13	Vertical
3726.67	-40.60	-13	Vertical
6678.01	-40.05	-13	Vertical
9962.18	-37.30	-13	Vertical
17820.01	-33.92	-13	Vertical

Channel 9538

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.60	-49.30	-13	Vertical
2781.39	-47.78	-13	Vertical
3724.75	-40.94	-13	Vertical
6677.03	-39.79	-13	Vertical
9960.30	-37.43	-13	Vertical
17818.43	-34.37	-13	Vertical

WCDMA band IV

Test result:

WCDMA Mode:

Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.97	-48.75	-13	Vertical
2782.07	-47.61	-13	Vertical
3725.51	-41.08	-13	Vertical
6676.41	-40.10	-13	Vertical
9959.72	-37.13	-13	Vertical
17821.77	-34.32	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.85	-48.51	-13	Vertical
2781.02	-47.40	-13	Vertical
3728.18	-40.79	-13	Vertical
6676.59	-39.74	-13	Vertical
9962.00	-37.08	-13	Vertical
17818.41	-33.68	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.21	-48.55	-13	Vertical
2779.79	-47.16	-13	Vertical
3726.41	-40.37	-13	Vertical
6677.56	-39.63	-13	Vertical
9963.30	-37.27	-13	Vertical
17821.62	-34.01	-13	Vertical

HSDPA/HSUPA Mode:
Channel 1312

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.84	-49.16	-13	Vertical
2778.58	-47.28	-13	Vertical
3727.51	-41.17	-13	Vertical
6677.64	-39.38	-13	Vertical
9961.19	-37.42	-13	Vertical
17820.57	-34.20	-13	Vertical

Channel 1412

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.30	-49.45	-13	Vertical
2779.80	-47.11	-13	Vertical
3724.77	-41.10	-13	Vertical
6677.17	-39.20	-13	Vertical
9960.04	-37.11	-13	Vertical
17821.36	-33.61	-13	Vertical

Channel 1513

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.85	-48.81	-13	Vertical
2779.06	-47.21	-13	Vertical
3724.97	-40.85	-13	Vertical
6675.61	-39.19	-13	Vertical
9959.51	-37.65	-13	Vertical
17821.68	-34.17	-13	Vertical

WCDMA band V

Test result:

WCDMA Mode:

Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.84	-52.94	-13	Vertical
1665.43	-51.71	-13	Vertical
2535.44	-44.50	-13	Vertical
2575.27	-44.21	-13	Vertical
8964.58	-39.46	-13	Vertical
9970.05	-35.98	-13	Vertical

Channel 4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.51	-52.98	-13	Vertical
1666.66	-50.99	-13	Vertical
2532.58	-44.63	-13	Vertical
2579.20	-44.20	-13	Vertical
8961.19	-39.95	-13	Vertical
9971.87	-35.88	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.16	-53.01	-13	Vertical
1668.06	-51.56	-13	Vertical
2532.48	-44.74	-13	Vertical
2575.91	-43.94	-13	Vertical
8962.93	-39.68	-13	Vertical
9970.99	-35.89	-13	Vertical

HSDPA/HSUPA Mode:
Channel 4132

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.75	-53.01	-13	Vertical
1668.15	-50.78	-13	Vertical
2532.82	-44.18	-13	Vertical
2577.88	-44.12	-13	Vertical
8962.43	-39.29	-13	Vertical
9973.09	-36.01	-13	Vertical

Channel4183

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.93	-53.21	-13	Vertical
1668.35	-50.82	-13	Vertical
2535.01	-44.25	-13	Vertical
2575.56	-44.28	-13	Vertical
8964.38	-39.45	-13	Vertical
9972.38	-36.30	-13	Vertical

Channel 4233

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.85	-53.33	-13	Vertical
1664.98	-50.92	-13	Vertical
2536.08	-44.32	-13	Vertical
2575.32	-44.64	-13	Vertical
8963.46	-39.08	-13	Vertical
9973.00	-35.95	-13	Vertical

Test with secondary supply:

WCDMA band IV MODE Channel 1312 is selected as the worst point for RSE.

WCDMA band IV MODE Channel 1312:

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2460.41	-49.16	-13	Vertical
2780.18	-47.14	-13	Vertical
3724.39	-40.91	-13	Vertical
6676.45	-39.38	-13	Vertical
9959.72	-37.46	-13	Vertical
17820.01	-33.84	-13	Vertical

---The end of the test report---