



No. DAT-P-114/01-01

TEST REPORT

No. 2007TAR006

Test name	FCC Test
Product	CDMA 1X EVDO/GSM DIGITAL MOBILE PHONE
Model	V870
Client	Amoi Mobile Co., Ltd.

Telecommunication Metrology Center
of Ministry of Information Industry

Notice

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Product	CDMA 1X EVDO/GSM DIGITAL MOBILE PHONE	Model	V870			
		Trade mark				
Client	Amoi Mobile Co., Ltd.					
Manufacturer	Amoi Mobile Co., Ltd.	Arrival Date of sample	March 08, 2007			
Place of sampling	/	Carrier of the samples	Li Cheng			
Quantity of the samples	2	Date of product	/			
Base of the samples	(Blank)	Items of test	8			
Series number	EUT1: 00701325944 EUT2: 00701325947					
Standard(s)	FCC Part 24(10-1-06 Edition) FCC Part 22(10-1-06 Edition)					
Conclusion	The testcases requested by the client in this test report have passed the test.					
(Stamp)						
Date of issue: April 23, 2007						
Comment	The test result relates only to the tested samples.					

Approved by 卢秉松 Reviewed by 宋常文 Performed by 孙向倩
 (Lu Bingsong) (Song chongwen) (Sun Xiangqian)

(Lu Bingsong - Deputy Director of the laboratory)

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1. COMPETENCE AND WARRANTIES

Telecommunication Metrology Center of Ministry of Information Industry(hereinafter **TMC**) is a test laboratory accredited by DAR (DATech) – Deutschen Akkreditierungs Rat (Deutsche Akkreditierungsstelle Technik), for the tests indicated in the Certificate No. **DAT-P-114/01-01**.

TMC is a test laboratory accredited by CNAL – Accreditation Certificate of China National Accreditation Board for Laboratories, for the tests indicated in the Certificate No. **L0442**.

TMC is FCC listed lab. FCC listed number is **733176**.

The test site in **TMC** is registered in Industry Canada. The IC registration number is **6629**.

TMC is a testing laboratory competent to carry out the tests described in this report.

TMC guarantees the reliability of the data presented in this report, which is the result of measurements and tests performed to the item under test on the date and under the conditions stated on the report and is based on the knowledge and technical facilities available at TMC at the time of execution of the test.

TMC is liable to the client for the maintenance by its personnel of the confidentiality of all information related to the item under test and the results of the test.

2. Testing Laboratory

2.1 Testing Location

Company Name:	Telecommunication Metrology Center of Ministry of Information Industry
Address:	No 52, Huayuan beilu, Haidian District, Beijing,P.R.China
Postal Code:	100083
Telephone:	00861062303288
Fax:	00861062304793

2.2 Testing Environment

Semi-anechoic chamber (23 meters×17meters×10meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Normalised site attenuation (NSA)	< ±3.2 dB, 10 m distance, from 30 to 1000 MHz
Uniformity of field strength	Between 0 and 6 dB, from 26 to 1000 MHz

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Control room did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 35 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Conducted chamber did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω

Fully-anechoic chamber (6.8 meters×3.08 meters×3.53 meters) did not exceed following limits along the EMC testing:

Temperature	Min. = 15 °C, Max. = 30 °C
Relative humidity	Min. = 30 %, Max. = 60 %
Shielding effectiveness	> 110 dB
Electrical insulation	> 10 kΩ
Ground system resistance	< 0.5 Ω
Uniformity of field strength	Between 0 and 6 dB, from 26 to 1000 MHz

2.3 Testing Period

Testing Start Date:	March 10, 2007
Testing End Date:	April 23, 2007

3. Applicant Information

3.1 Client Information

Name or Company	Amoi Mobile Co., Ltd.
Address/Post	102 Xiaguang Road, Haicang district
City	Xiamen City,
Postal Code	361022
Country	P.R.China
Telephone	86-592-6516777-3316
Fax	86-592-6516007

3.2 Manufacturer Information

Name or Company	Amoi Mobile Co., Ltd.
Address/Post	102 Xiaguang Road, Haicang district
City	Xiamen City,
Postal Code	361022
Country	P.R.China
Telephone	86-592-6516777-3316
Fax	86-592-6516007

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

4.1 About EUT

Model	V870
FCC ID:	RWZV870
Description	CDMA 1X EVDO/GSM DIGITAL MOBILE PHONE
Frequency	1851.25MHz-1908.75MHz for PCS CDMA; 824.70MHz - 848.31MHz for CDMA
Antenna	Internal
Power supply	Battery or Charger (AC Adaptor)
Output power	25.70dBm maximum EIRP measured for PCS 1900 (CDMA) 24.12dBm maximum ERP measured for CDMA
Extreme vol. Limits	3.5VDC to 4.2VDC (nominal: 3.7 VDC)
Extreme temp. Tolerance	-30°C to +50°C

4.2 Internal Identification of EUT used during the test

EUT ID	ESN	HW Version	SW Version
EUT1	00701325944	V3.2	8107_V08-070118-6500-TNKG6340
EUT2	00701325947	V3.2	8107_V08-070118-6500-TNKG6340

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

4.3 Photographs of EUT

Photographs of Telephone Set and Charger are respectively shown in ANNEX B of this test report.

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5. SUMMARY OF TEST RESULTS

Items	List	Clause in FCC rules	Verdict
1	Output Power	22.913(a)/24.232(b)	P
2	Emission Limit	2.1051/22.917/24.238	P
3	Conducted Emission	15.107/207	P
4	Frequency Stability	2.1055/24.235	P
5	Occupied Bandwidth	2.1049(h)(i)	P
6	Emission Bandwidth	22.917(b)/24.238(b)	P
7	Band Edge Compliance	22.917(b)/24.238(b)	P
8	Conducted Spurious Emission	2.1057/22.917/24.238	P

6. MAIN TEST INSTRUMENTS

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER	CAL DUE DATE
1	Test Receiver	ESS	847151/015	R&S	2007-10-30
2	Test Receiver	ESI40	831564/002	R&S	2008-2-11
3	BiLog Antenna	3142B	9908-1403	EMCO	2008-1-16
4	BiLog Antenna	3142B	9908-1405	EMCO	2009-9-19
5	Signal Generator	SMT06	831285/005	R&S	2007-12-26
6	Signal Generator	SMP04	100070	R&S	2007-4-20
7	LISN	ESH2-Z5	829991/012	R&S	2007-8
8	Spectrum Analyzer	E4440A	MY41000262	Agilent	2007-4-18
9	Universal Radio Communication Tester	CMU200	100680	R&S	2007-8-23
10	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO	2008-3
11	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO	2008-3
12	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO	2008-3
13	Climatic chamber	PL-2G	343074	ESPEC	2007-5-15

ANNEX A MEASUREMENT RESULTS

A.1 OUTPUT POWER (§22.913(a)/§24.232(b))

A.1.1 Summary

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMU-200) to ensure max power transmission and proper modulation. This result contains peak output power and EIRP measurements for the EUT. In all cases, output power is within the specified limits.

A.1.2 Conducted

A.1.2.1 Method of Measurements

The EUT was set up for the max output power.

The power was measured with Agilent Spectrum Analyzer E4440A (peak)

CDMA

Measurement result

EUT1

Channel	Frequency(MHz)	Channel power(dBm)
1013	824.70	24.523
384	836.52	25.033
777	848.31	24.933

PCS CDMA

Measurement result

EUT1

Channel	Frequency(MHz)	Channel power(dBm)
25	1851.25	25.581
550	1877.50	25.701
1175	1908.75	25.621

A.1.3 Radiated

A.1.3.1 Description

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 22.913(a) specifies "Maximum ERP. The effective radiated power (ERP) of base transmitters and cellular repeaters must not exceed 500 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

A.1.3.2 Method of Measurement

1. In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (P_{in}) is applied to the input of the dipole, and the power received (P_r) at the chamber's probe antenna is recorded.
2. A "reference path loss" is established as $P_{in} + 2.15 - P_r$.
3. The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.
4. From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.
5. The EUT is then put into pulse mode at its maximum power level.
6. "Gated mode" power measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step 1 is added to this result.
7. This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (P_{in}).
8. ERP can be calculated from EIRP by subtracting the gain of the dipole, $ERP = EIRP - 2.15\text{dBi}$.

CDMA 22.913(a)

Measurement result

Channel	Frequency(MHz)	ERP(dBm)
1013	824.70	24.12
384	836.52	23.95
777	848.31	24.08

PCS CDMA 24.232(b)

Measurement result

Channel	Frequency(MHz)	EIRP(dBm)
25	1851.25	25.58
550	1877.50	25.70
1175	1908.75	25.62

A.2 EMISSION LIMIT (§2.1051/§24.238)

A.2.1 Measurement Method

The measurements procedures in TIA-603C-2004 are used.

The spectrum was scanned from 30 MHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz. The resolution bandwidth is set 1MHz as outlined in Part 24.238. The spectrum was scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of the band.

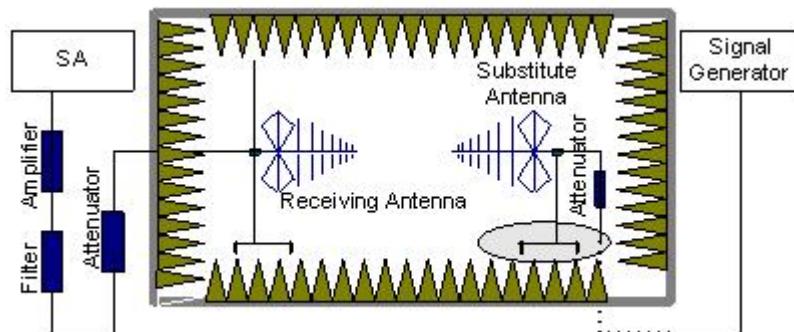
The procedure of radiated spurious emissions is as follows:

a) Pre-calibration

With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as,

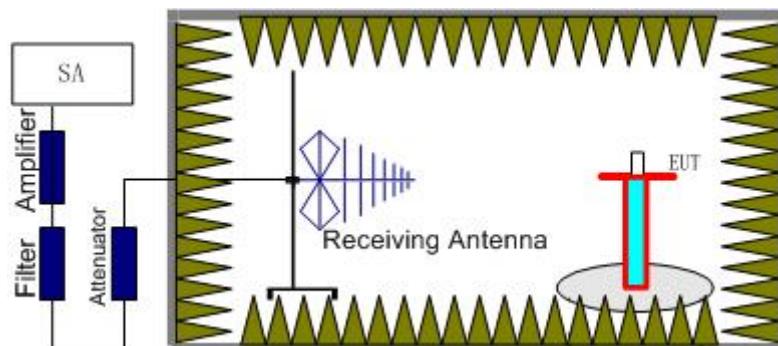
$$RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + \text{Gain (dBi)} - 107 \text{ (dBuV to dBm)}$$

The SA is calibrated using following setup.



b) EUT test

EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the test item for emission measurements. The height of receiving antenna is 1.5m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic were measured with peak detector and 1MHz bandwidth.



A.2.2 Measurement Limit

Sec. 24.238 Emission Limits.

(a) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within 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. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB,

which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

A.2.3 Measurement Results

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies of the band. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of the PCS CDMA and CDMA into any of the other blocks. The equipment must still, however, meet emissions requirements with the carrier at all frequencies over which it is capable of operating and it is the manufacturer's responsibility to verify this.

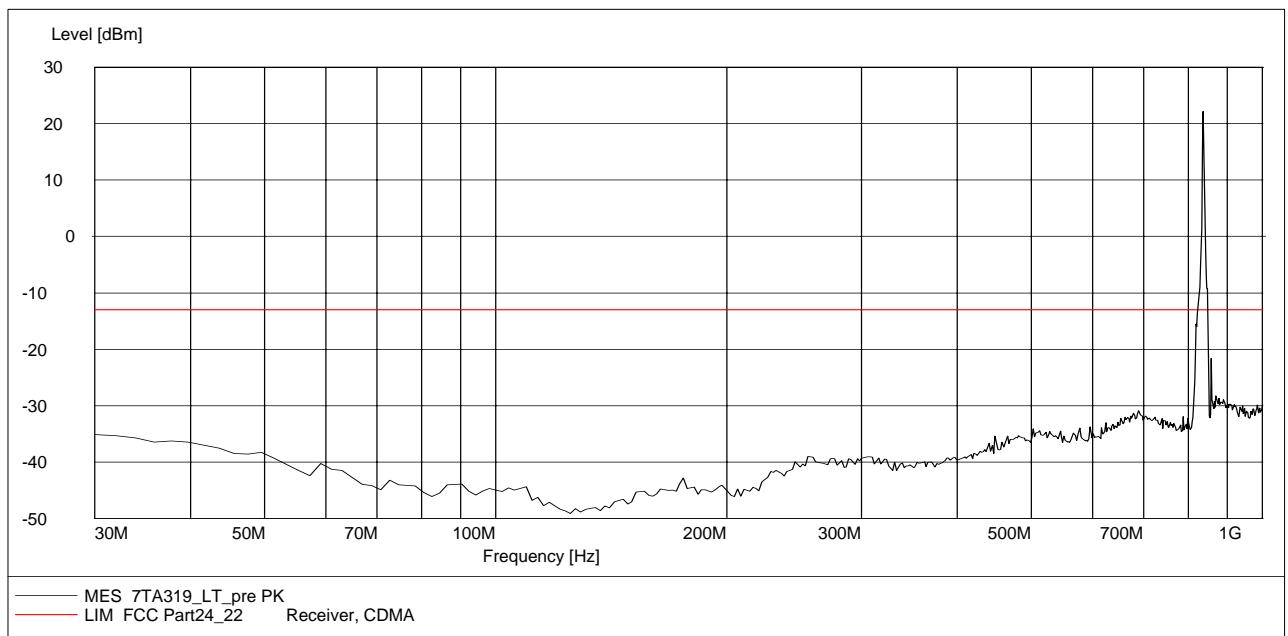
NOTE: The spurious emissions were done with different settings, using the relevant pre-amplifiers for the relevant frequency ranges. This is the reason that the graphs show different noise levels.

CDMA

A.2.3.1 RADIATED SPURIOUS EMISSIONS-Channel 1013 30MHz –1GHz

Radiated spurious emission limit :-13dBm.

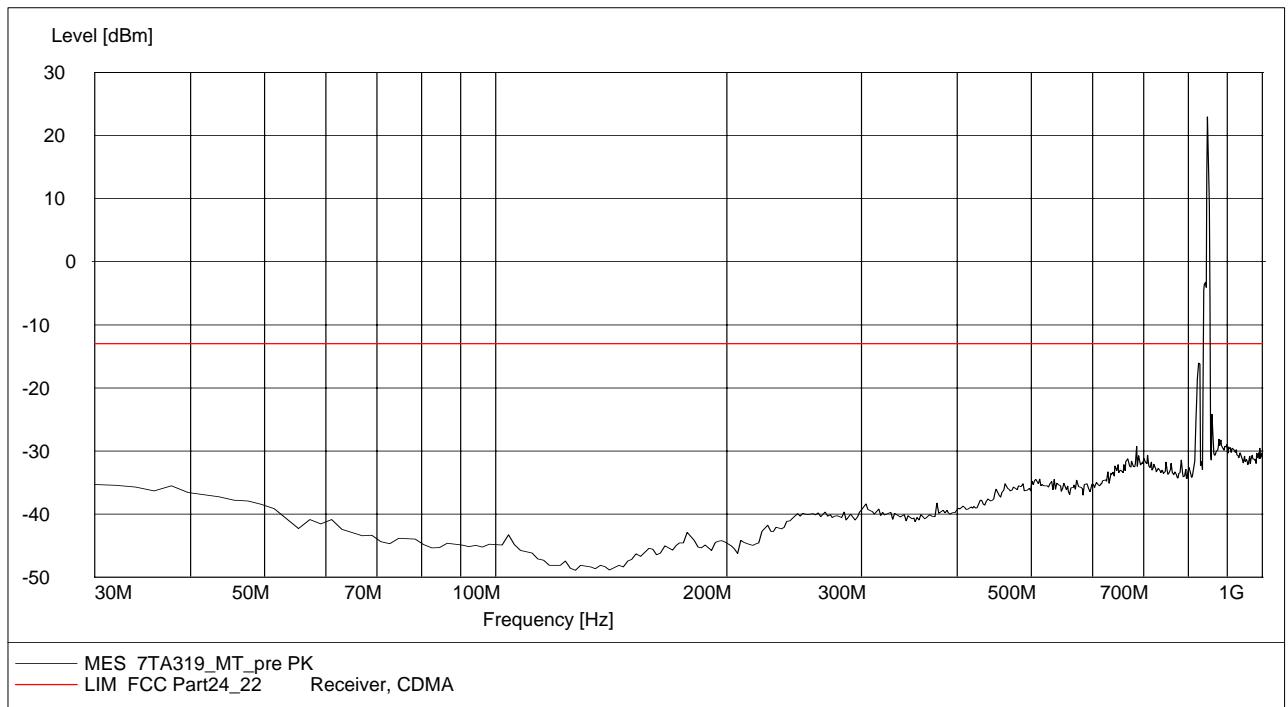
NOTE: peak above the limit line is the Carrier frequency @ ch-1013



A.2.3.2 RADIATED SPURIOUS EMISSIONS-Channel 384: 30MHz – 1GHz

Radiated spurious emission limit :-13dBm.

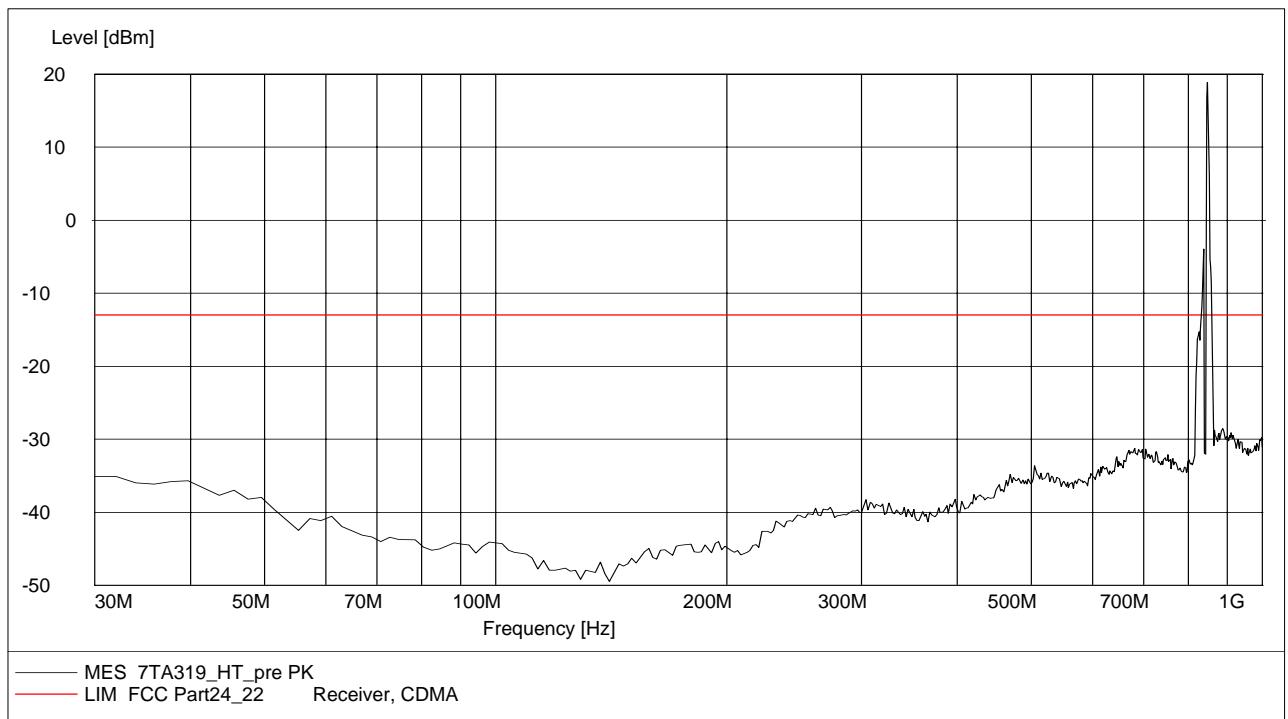
NOTE: peak above the limit line is the Carrier frequency @ ch-384



A.2.3.3 RADIATED SPURIOUS EMISSIONS-Channel 777: 30MHz – 1GHz

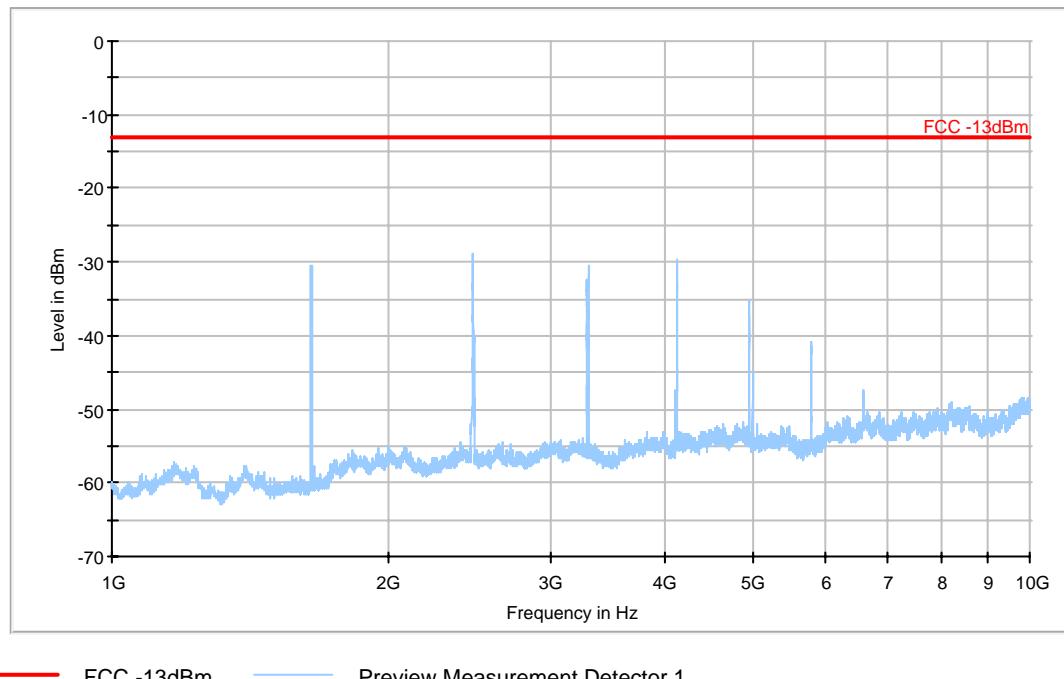
Radiated spurious emission limit :-13dBm.

NOTE: peak above the limit line is the Carrier frequency @ ch-777



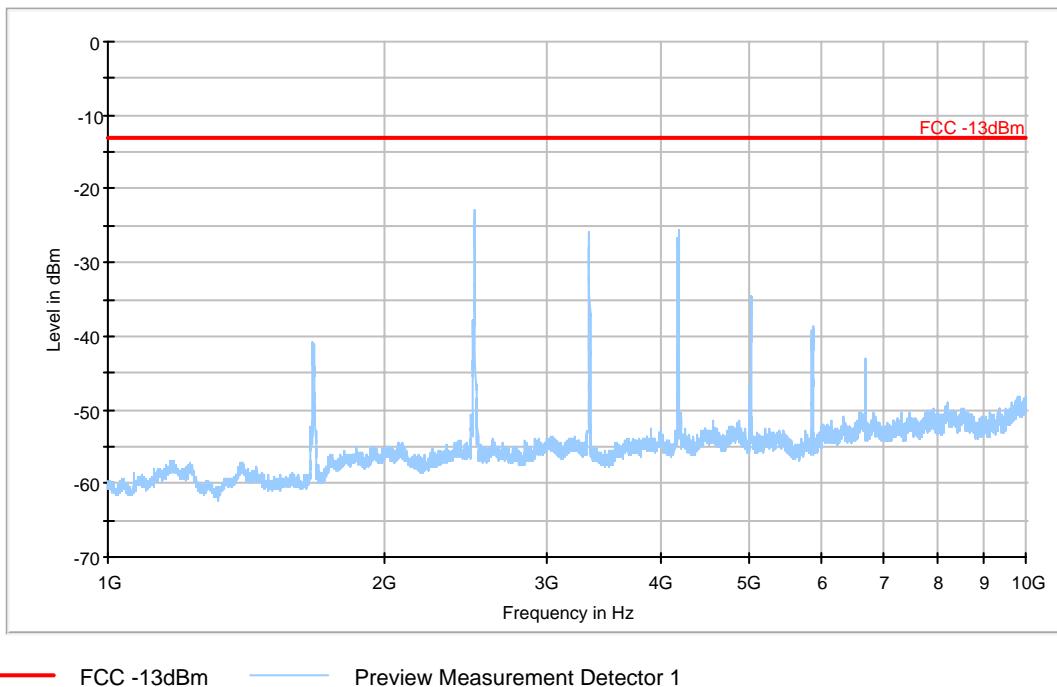
A.2.3.4 RADIATED SPURIOUS EMISSIONS-Channel 1013: 1GHz – 10GHz

Radiated spurious emission limit :-13dBm.



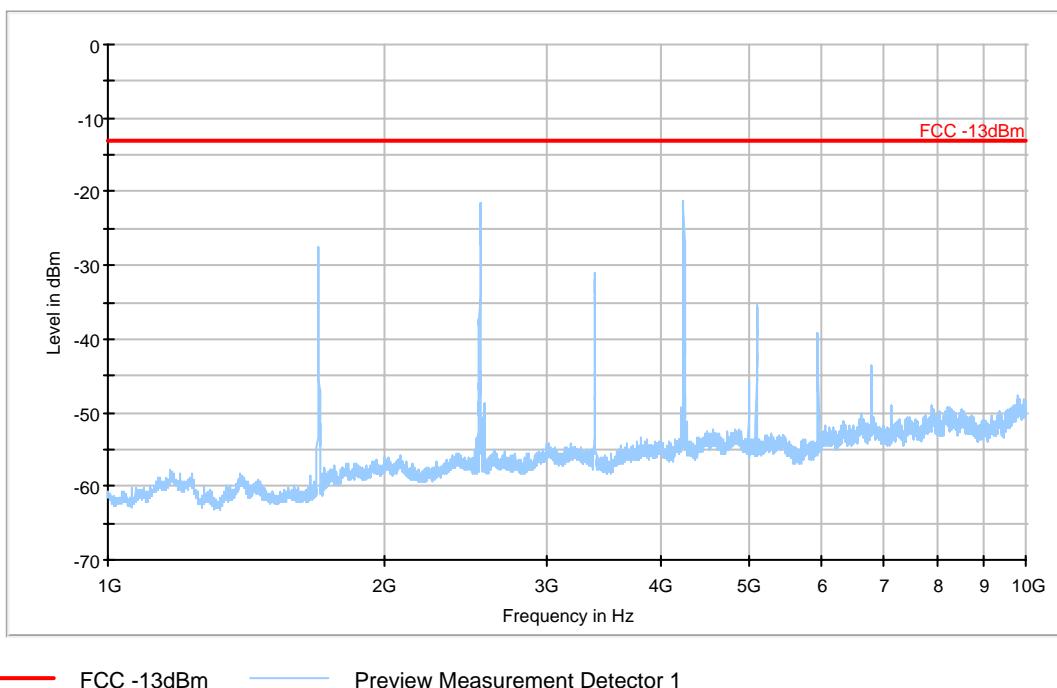
A.2.3.5 RADIATED SPURIOUS EMISSIONS-Channel 384: 1GHz – 10GHz

Radiated spurious emission limit :-13dBm.



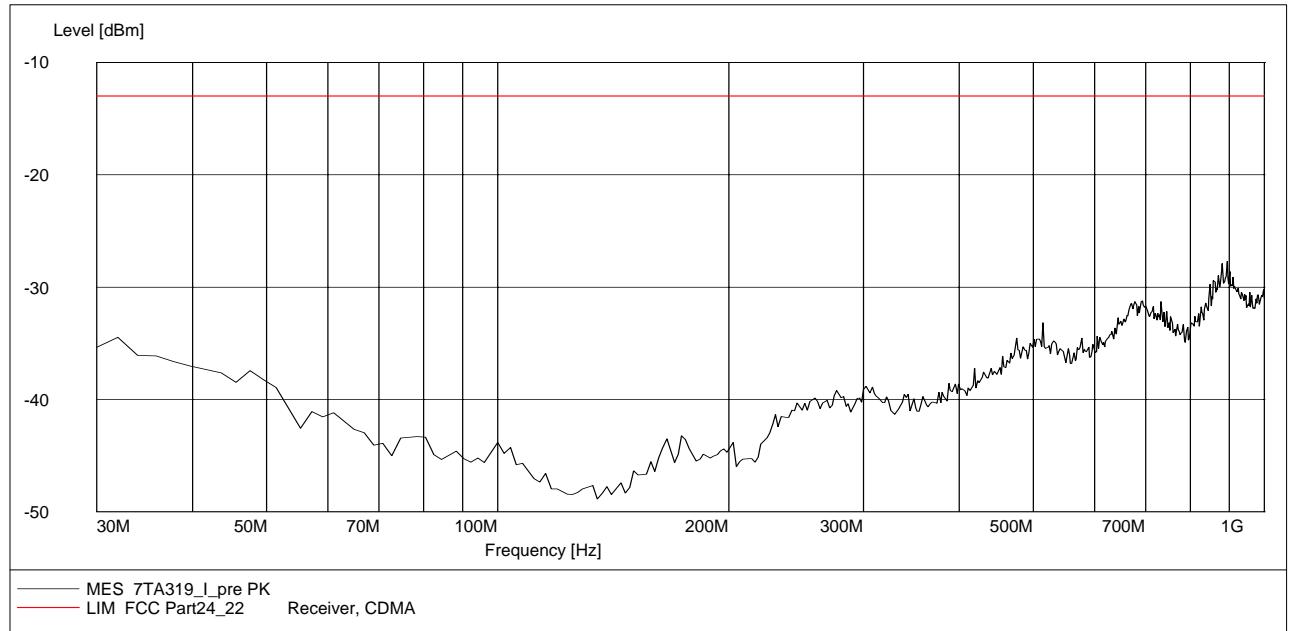
A.2.3.6 RADIATED SPURIOUS EMISSIONS-Channel 777: 1GHz – 10GHz

Radiated spurious emission limit :-13dBm.



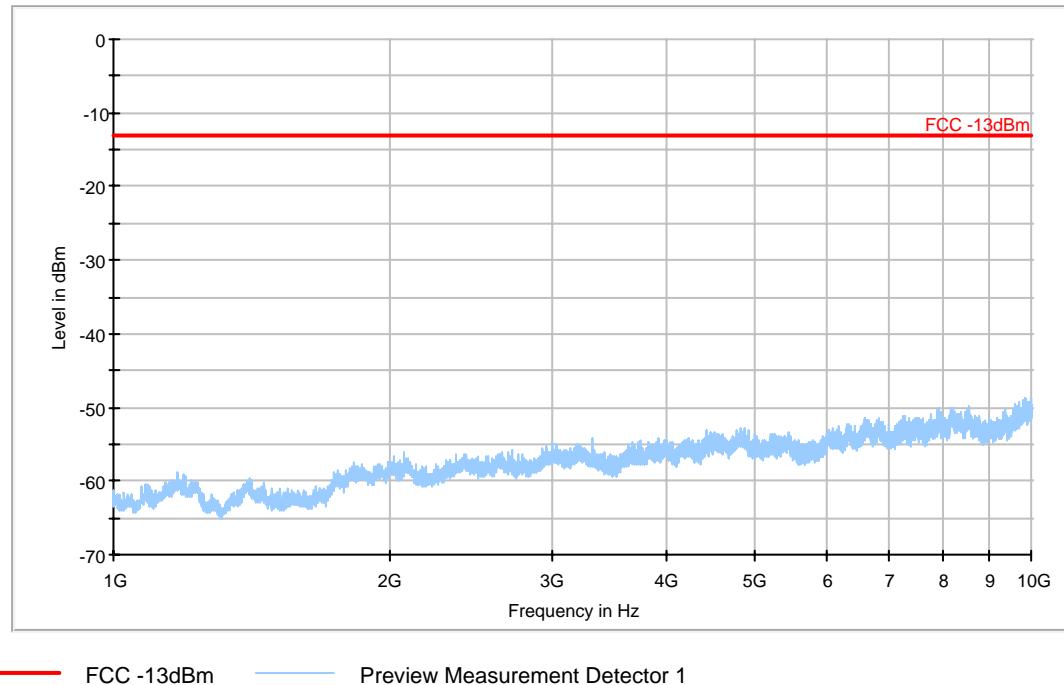
A.2.3.7 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 30MHz – 1GHz

Radiated spurious emission limit :-13dBm.



A.2.3.8 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 1GHz – 10GHz

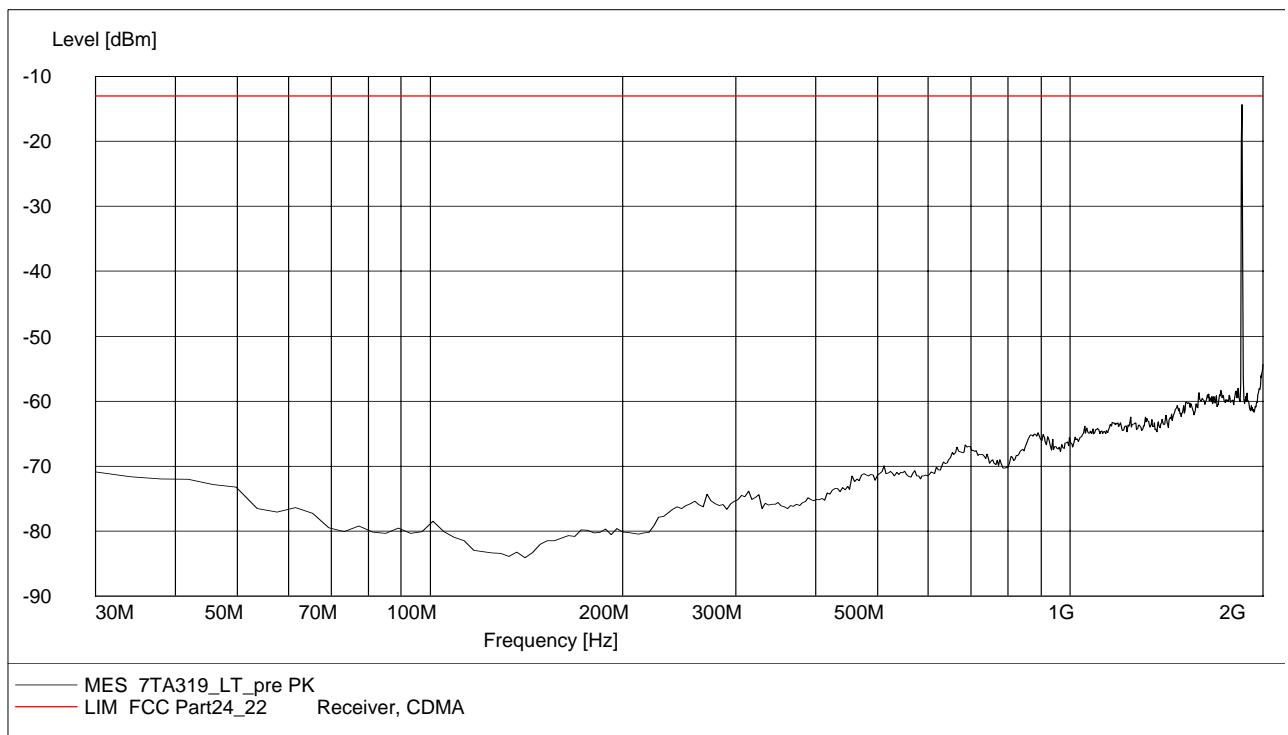
Radiated spurious emission limit :-13dBm.



PCS CDMA

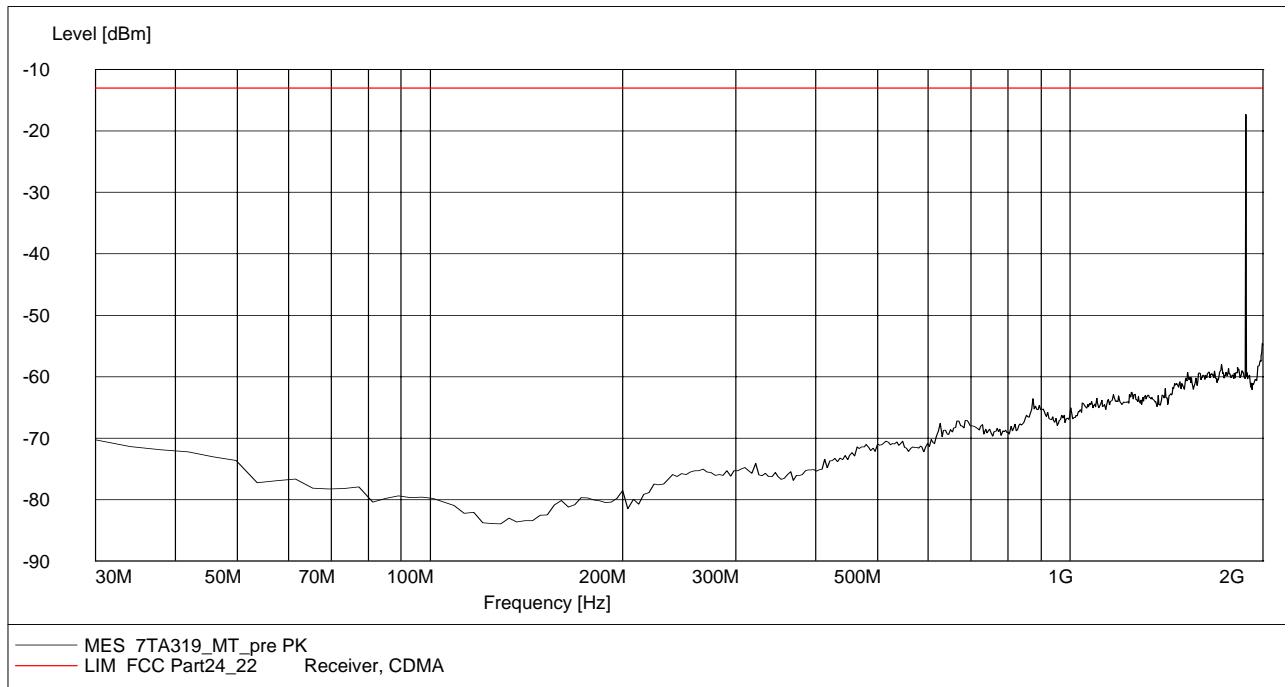
A.2.3.9 RADIATED SPURIOUS EMISSIONS-Channel 25: 30MHz – 2GHz

NOTE: peak above the limit line is the Carrier frequency @ ch-25



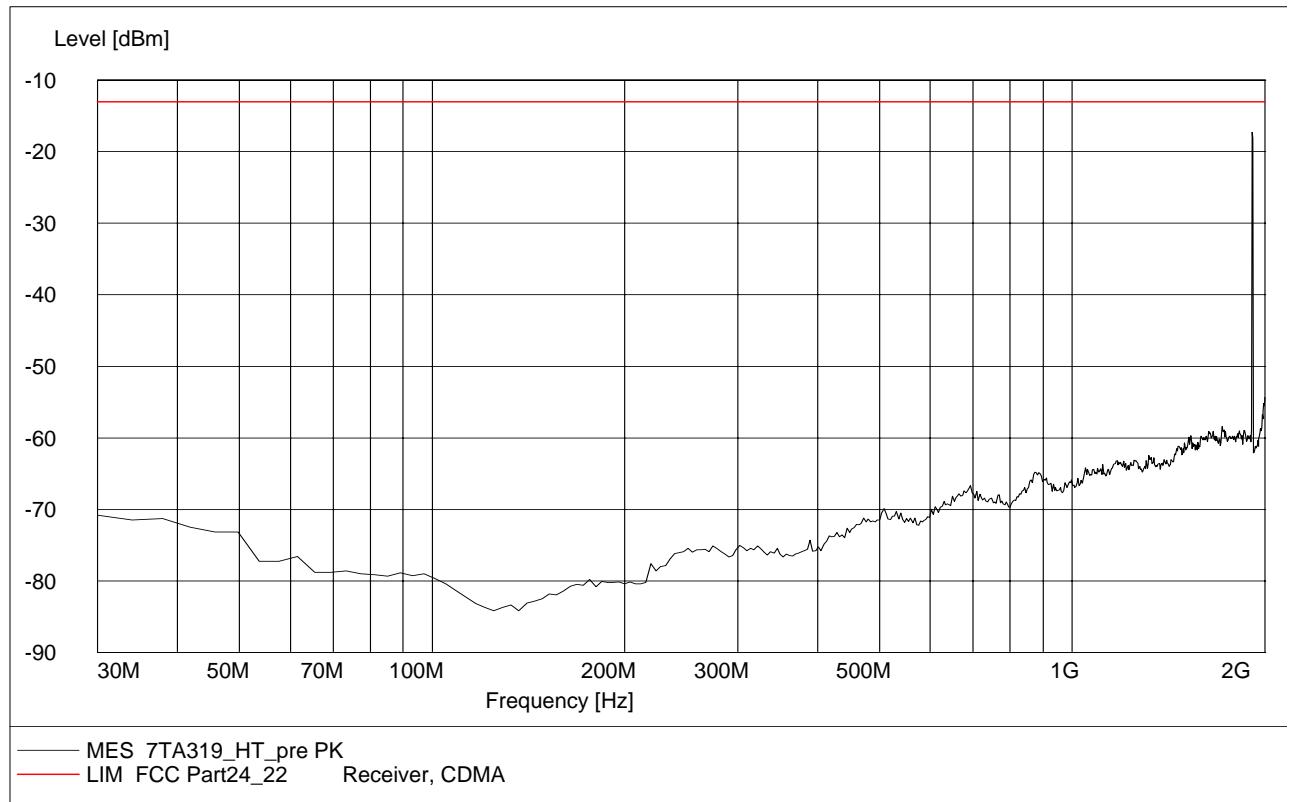
A.2.3.10 RADIATED SPURIOUS EMISSIONS-Channel 550: 30MHz – 2GHz

NOTE: peak above the limit line is the Carrier frequency @ ch-550

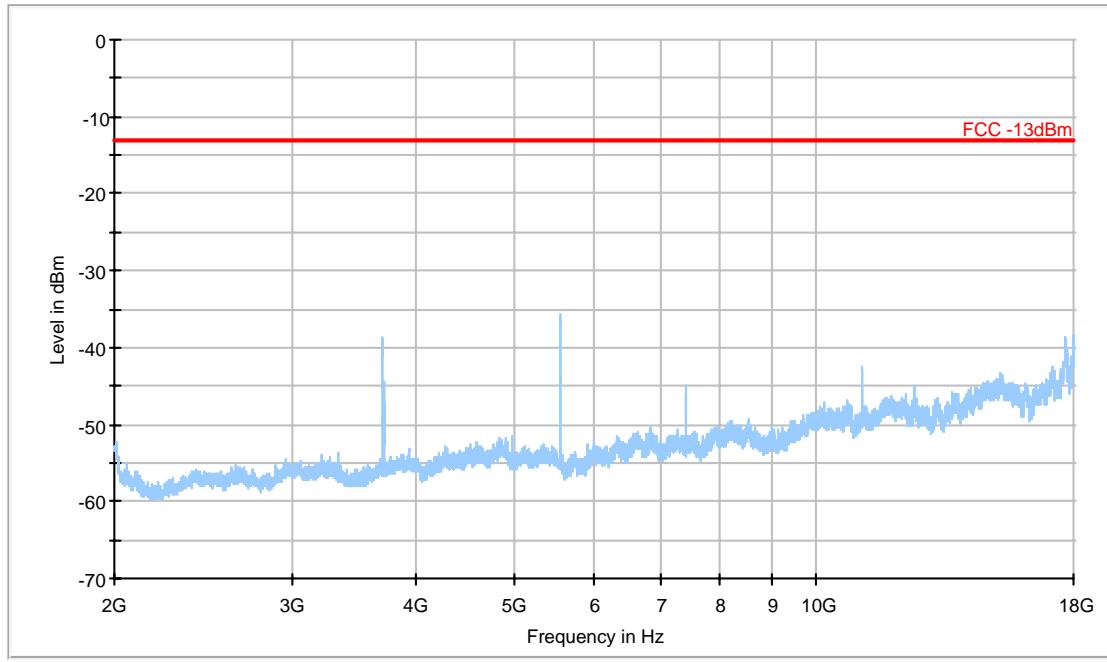


A.2.3.11 RADIATED SPURIOUS EMISSIONS-Channel 1175: 30MHz – 2GHz

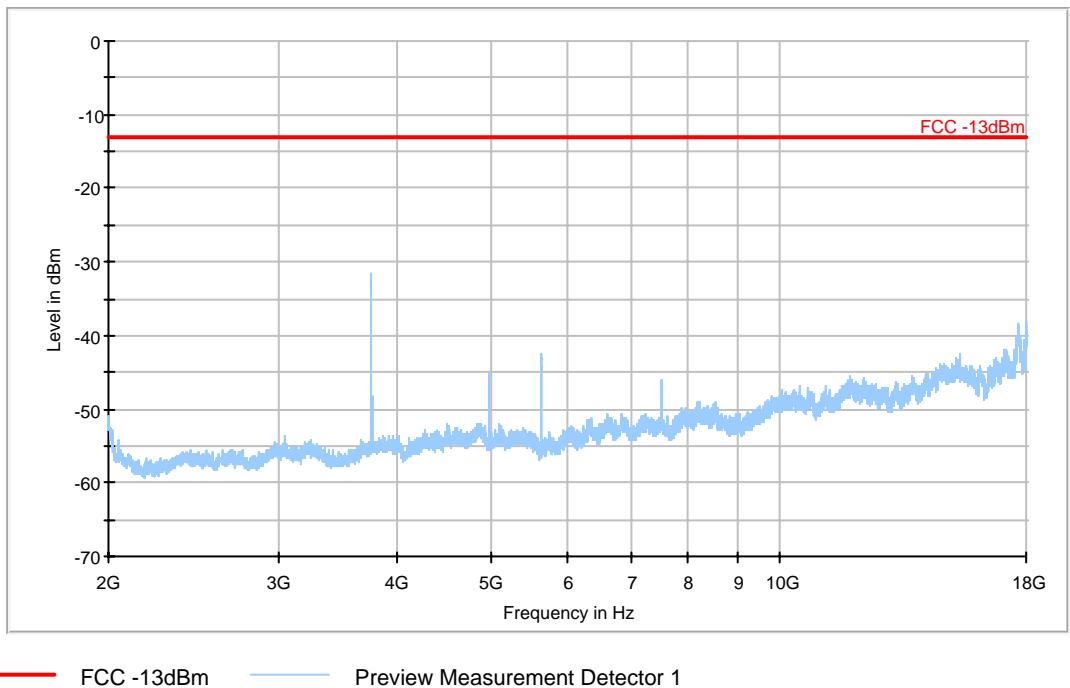
NOTE: peak above the limit line is the Carrier frequency @ ch-1175



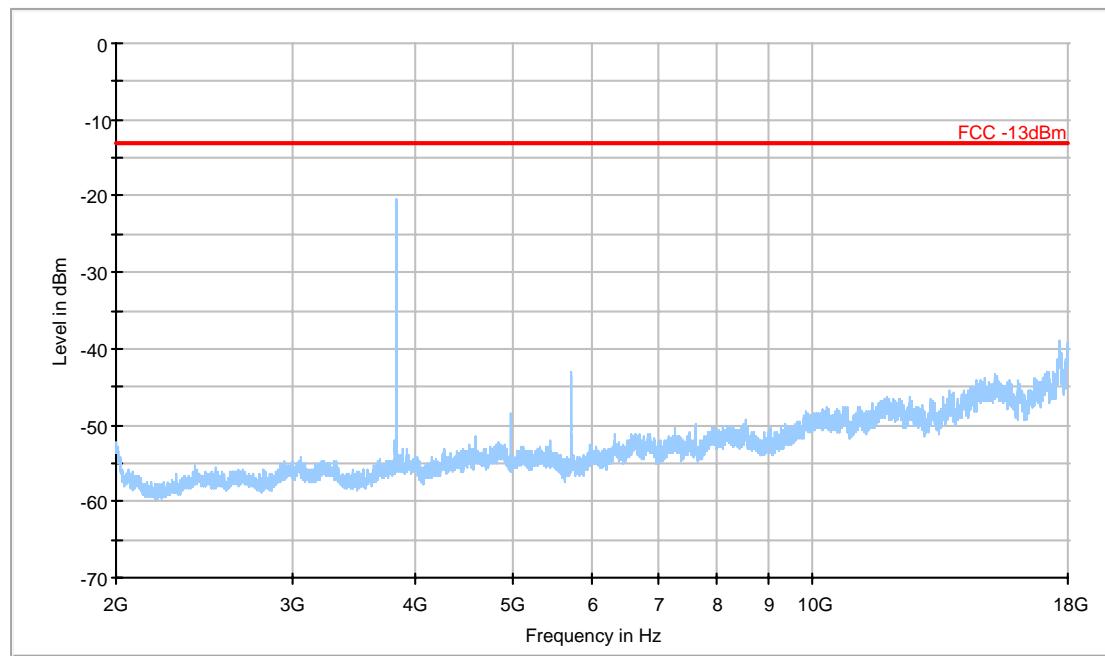
A.2.3.12 RADIATED SPURIOUS EMISSIONS-Channel 25: 2GHz – 18GHz



A2.3.13 RADIATED SPURIOUS EMISSIONS-Channel 550: 2GHz – 18GHz

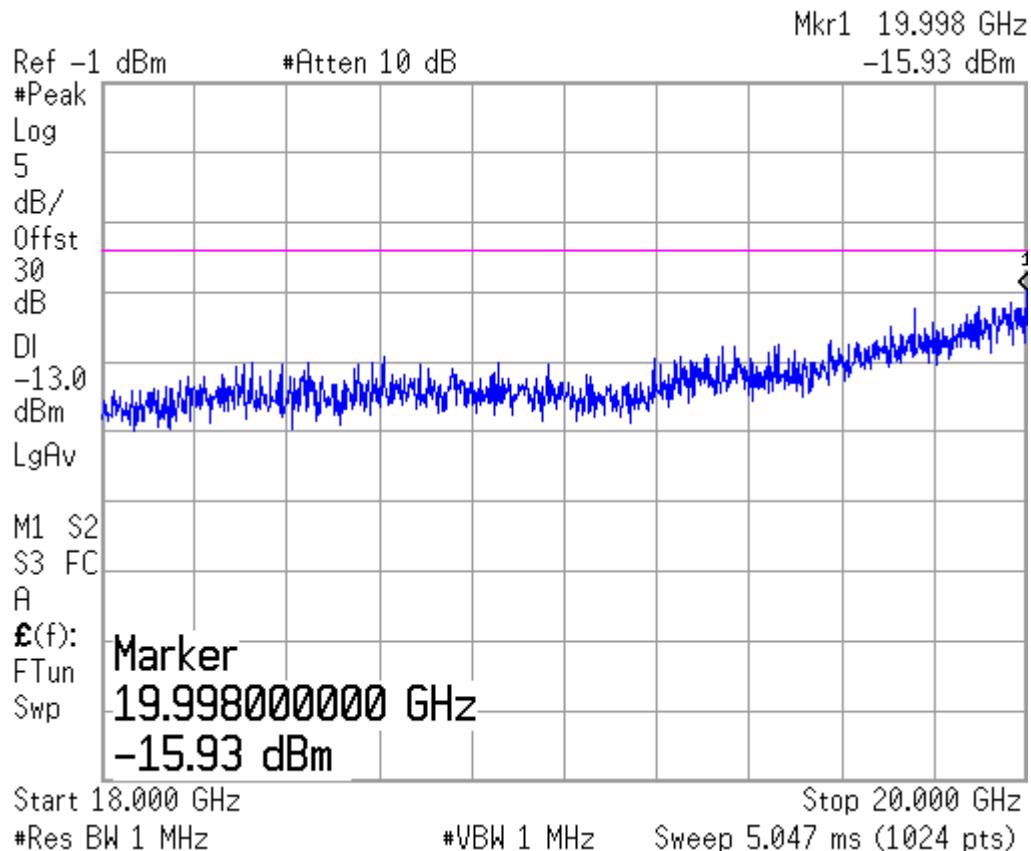


A.2.3.14 RADIATED SPURIOUS EMISSIONS-Channel 810: 2GHz – 18GHz

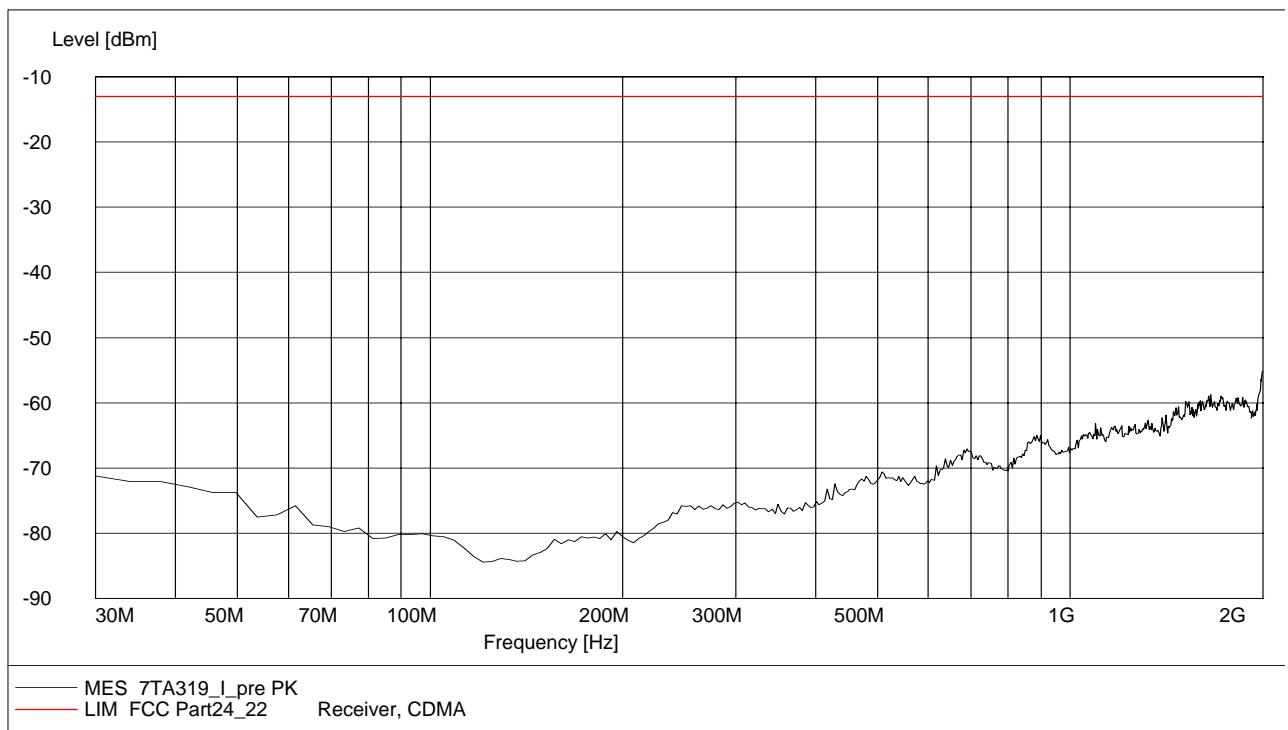


A.2.3.15 Radiated spurious emission (18GHz-20GHz)

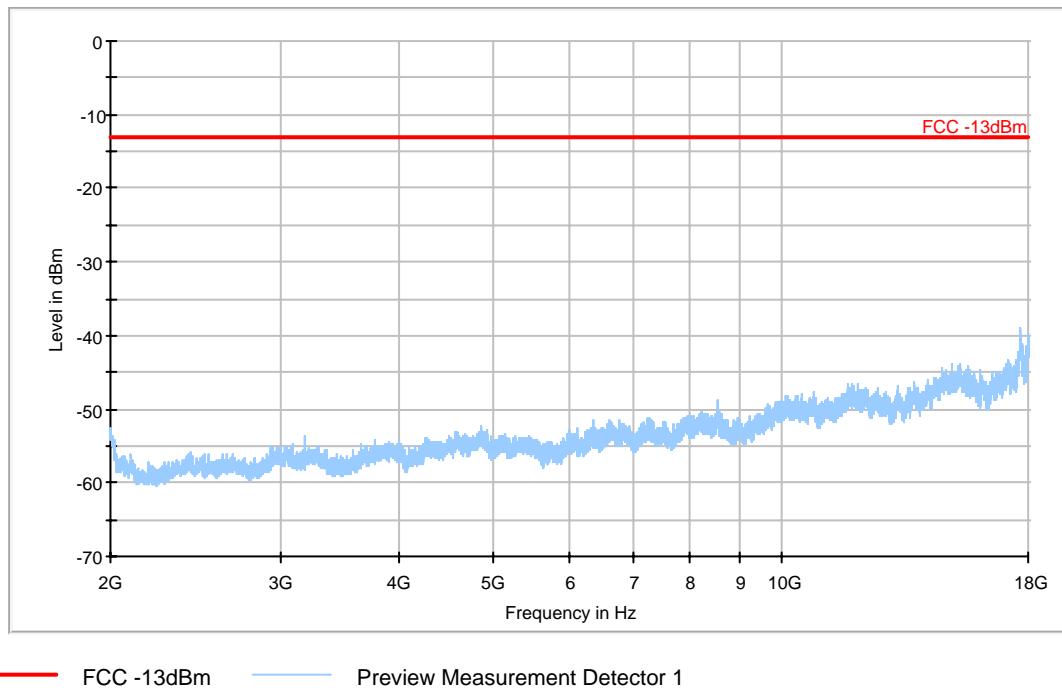
Note: This plot is valid for low, mid & high channels. It is same as the floor noise.



A.2.3.16 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 30MHz – 2GHz

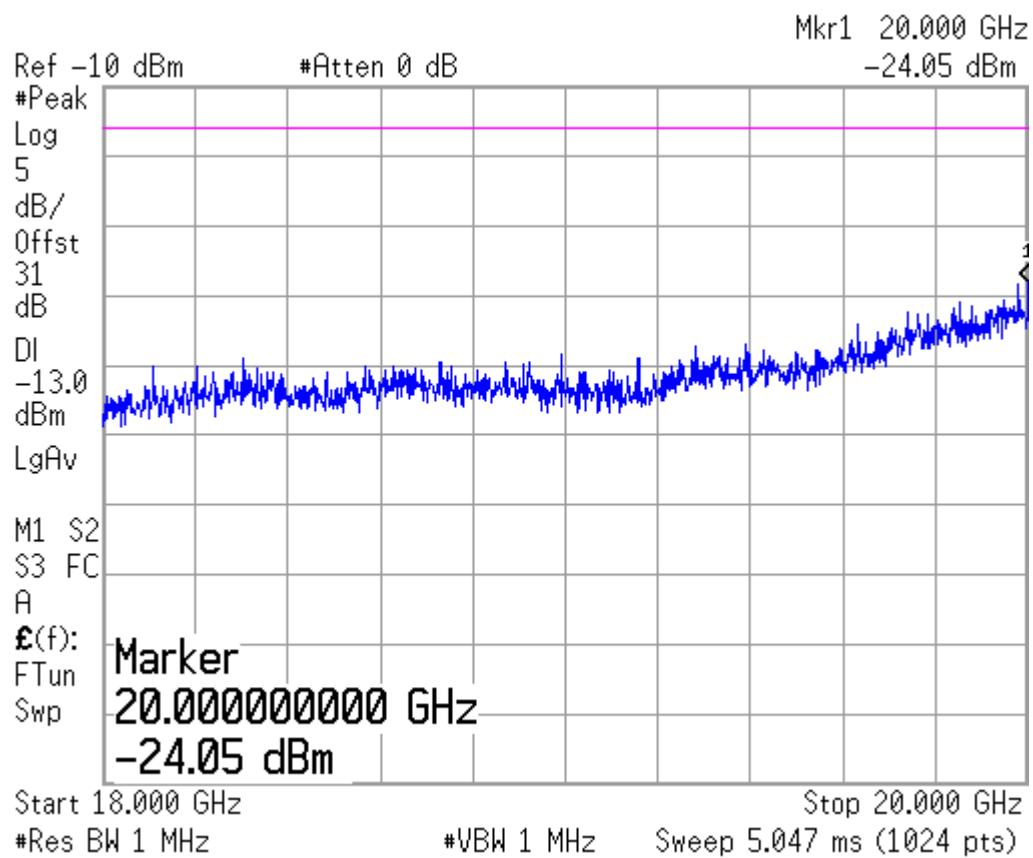


A.2.3.17 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 2GHz – 18GHz



A.2.3.18 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 18GHz – 20GHz

Note: It is same as the floor noise.



A.3 CONDUCTED EMISSION (§15.107§15.207)

The measurement procedure in ANSI C63.4-1003 is used. Conducted Emission is measured with travel charger UTC03-A.

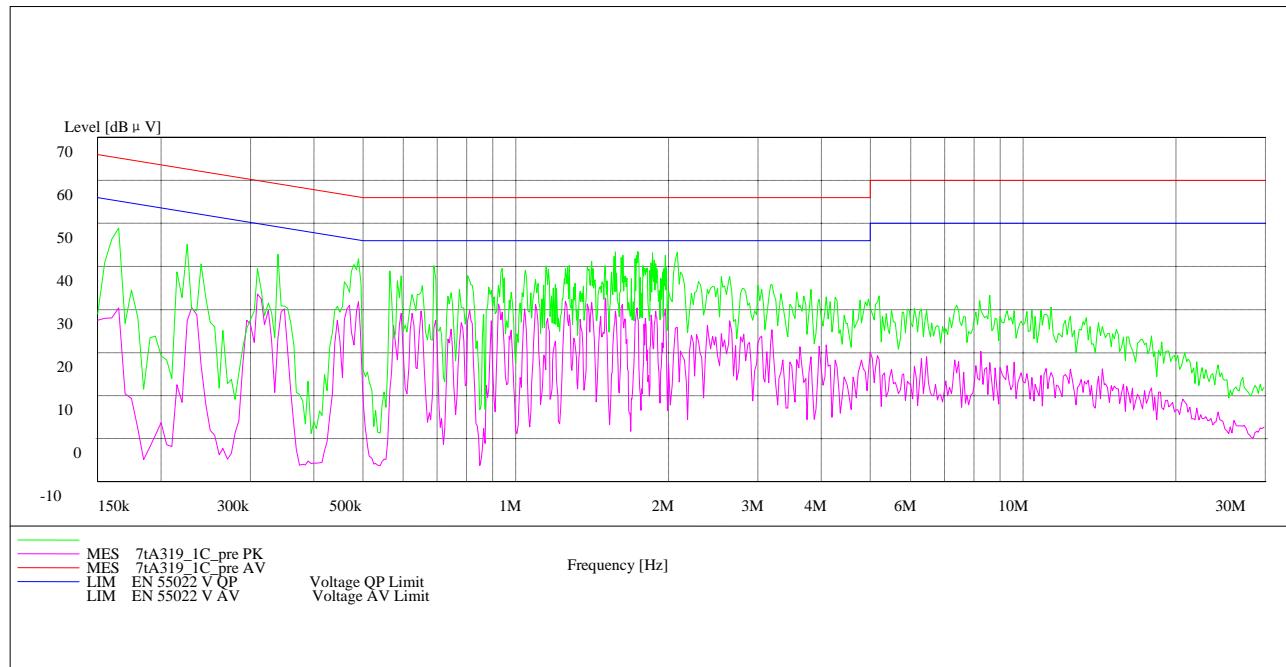
A.3.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi -Peak	Average
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with logarithm of the frequency

A.3.2 Measurement result

CDMA

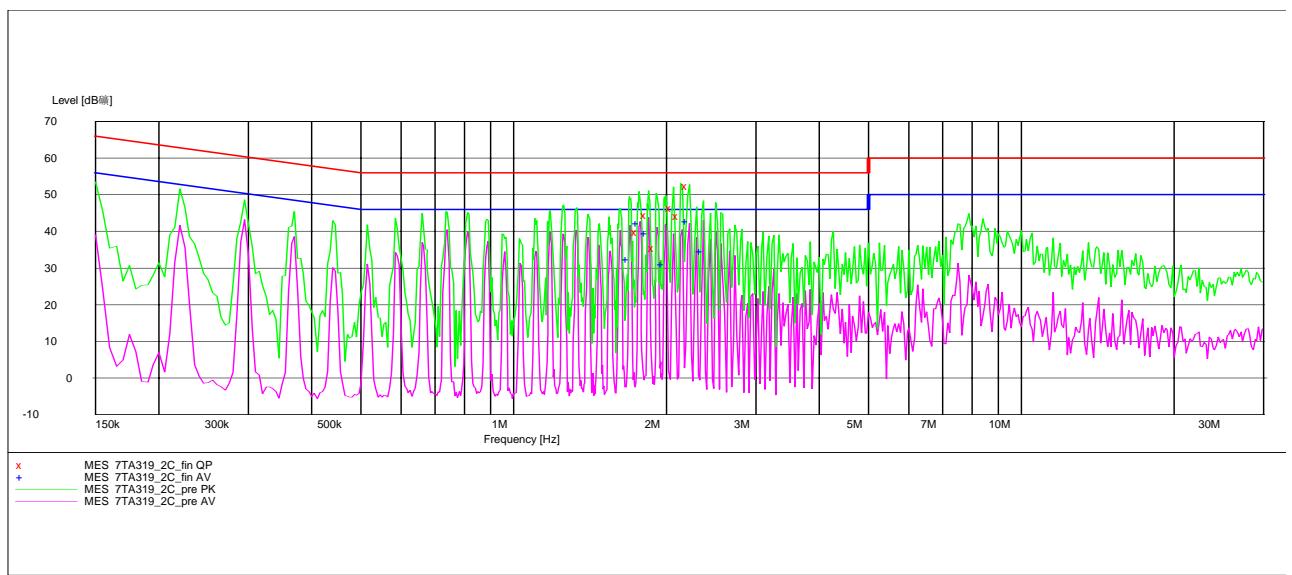


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PCS CDMA



MEASUREMENT RESULT: "7TA319_2C_fin QP"

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Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB μ V		dB	dB μ V		dB
1.765000	39.80	10.1	56	16.2	L1	FLO
1.845000	44.40	10.1	56	11.6	N	FLO
1.910000	35.40	10.1	56	20.6	L1	GND
2.064772	46.20	10.1	56	9.9	N	GND
2.131642	44.20	10.1	56	11.8	L1	GND
2.218283	52.30	10.1	56	3.7	L1	FLO

MEASUREMENT RESULT: "7TA319_2C_fin AV"

3/26/07 19:07

Frequency	Level	Transd	Limit	Margin	Line	PE
MHz	dB μ V		dB	dB μ V		dB
1.695000	32.40	10.1	46	13.6	L1	GND
1.775000	42.30	10.1	46	3.7	L1	GND
1.845000	39.40	10.1	46	6.6	L1	GND
1.990000	31.20	10.1	46	14.8	L1	GND

MEASUREMENT RESULT: "7TA319_2C_fin AV"

(continued)

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line dB	PE
2.218283	42.90	10.1	46	3.1	L1	GND
2.364292	34.50	10.1	46	11.5	L1	GND

A.4 FREQUENCY STABILITY (\$2.1055/\$24.235)

A.4.1 Method of Measurement

In order to measure the carrier frequency, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMU200 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30°C.
3. With the EUT, powered via nominal voltage, connected to the CMU200. CMU200 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 -30°C to +50°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 0.1Volt 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.

A.4.2 Measurement Limit

A.4.2.1 For Hand carried battery powered equipment

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ± 0.00025 ($\pm 2.5\text{ppm}$) of the center frequency.

A.4.3 Measurement results

CDMA

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	11	0.013
3.7	9	0.011
4.2	10	0.012

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Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	15	0.018
-20	13	0.016
-10	15	0.018
0	11	0.013
10	12	0.014
20	13	0.016
30	14	0.017
40	13	0.016
50	16	0.019

PCS CDMA

Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.5	19	0.010
3.7	17	0.009
4.2	19	0.010

Frequency Error vs Temperature

temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-30	24	0.013
-20	20	0.011
-10	19	0.010
0	17	0.009
10	18	0.010
20	19	0.010
30	22	0.012
40	23	0.012
50	25	0.013

A.5 OCCUPIED BANDWIDTH (§2.1049(h)(i))

A.5.1 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 USPCS frequency band. The table below lists the measured -20dBc BW (99%).

CDMA(-20dBc)

EUT1

Channel	Occupied Bandwidth (-20dBc BW)(MHz)
1013	1.379
384	1.370
777	1.394

PCS 1900(-20dBc)

Channel	Occupied Bandwidth (-20dBc BW)(MHz)
25	1.382
550	1.386
1175	1.388

A.6 EMISSION BANDWIDTH (§22.917(b)/§24.238(b))

A.6.1 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.

CDMA(-26dBc)

EUT1

Channel	Occupied Bandwidth (-26dBc BW)(MHz)
1013	1.427
384	1.421
777	1.422

PCS 1900(-26dBc)

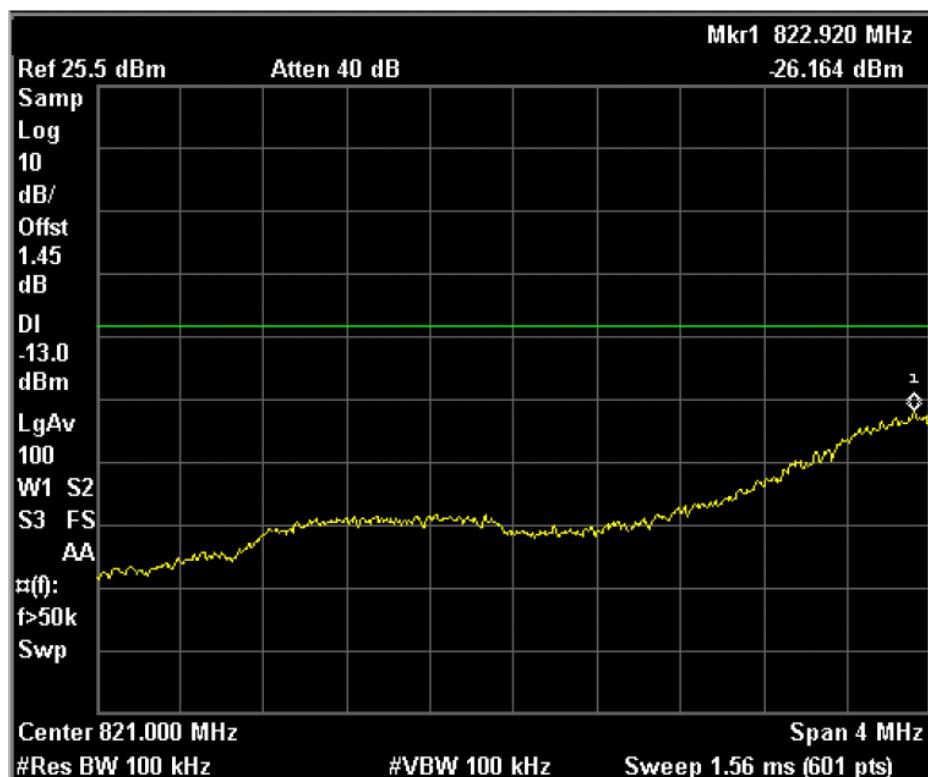
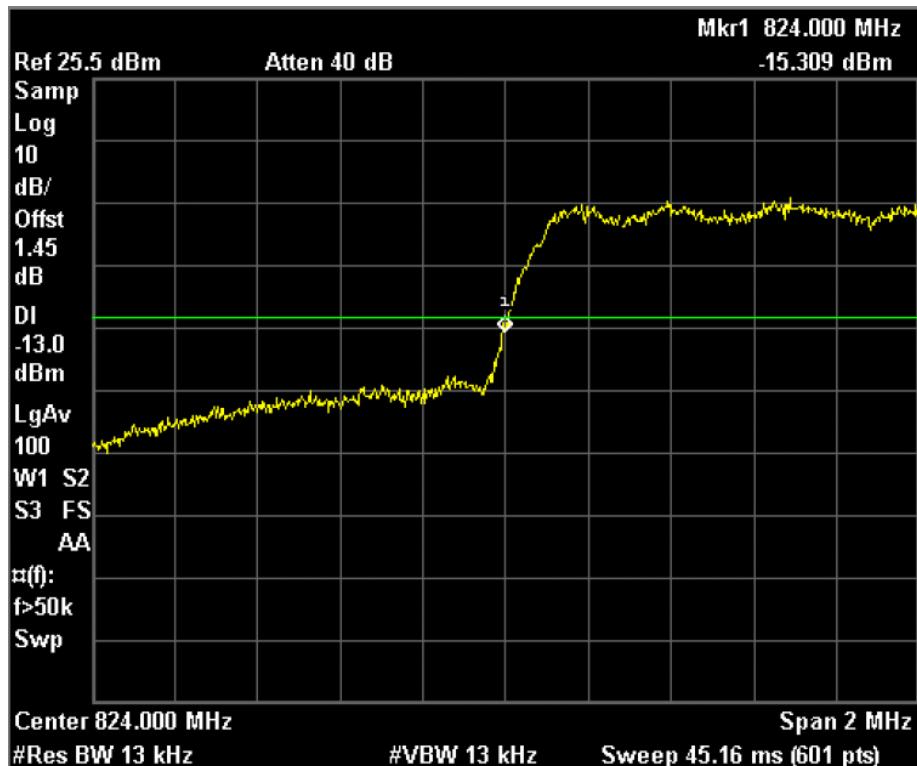
EUT1

Channel	Occupied Bandwidth (-26dBc BW)(kHz)
25	1.433
550	1.432
1175	1.435

A.7 BAND EDGE COMPLIANCE (§22.917(b)/§24.238(b))

CDMA

BAND EDGE BLOCK-Channel 1013

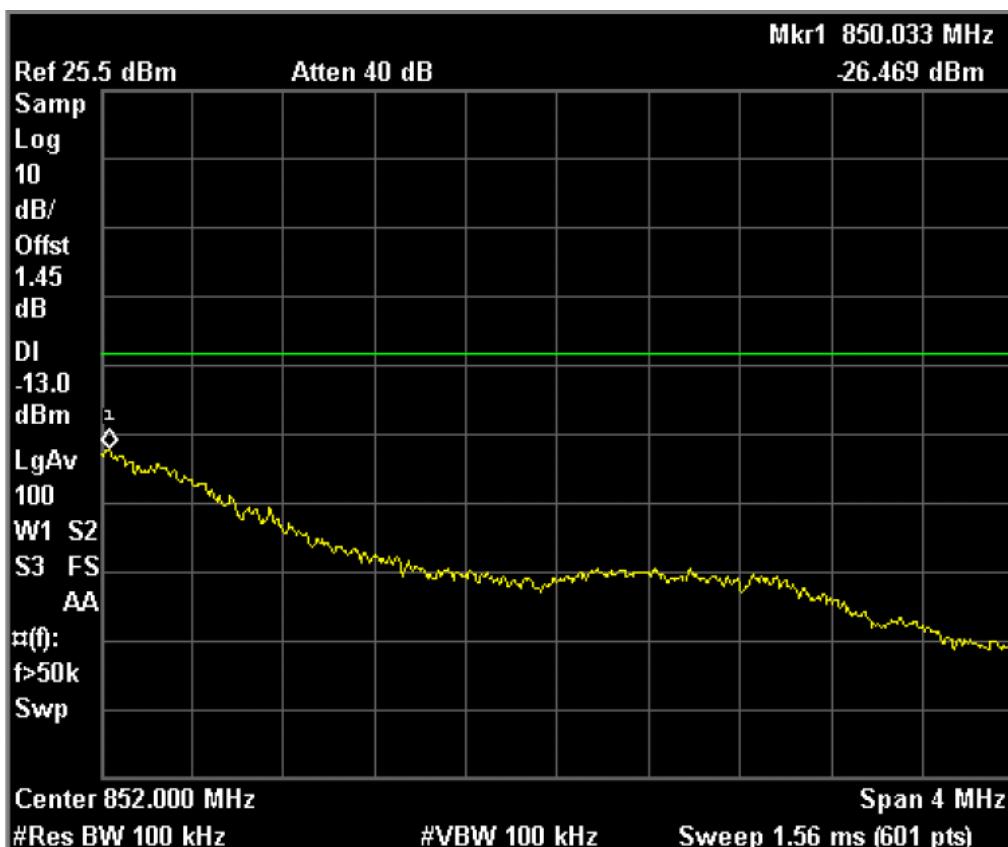
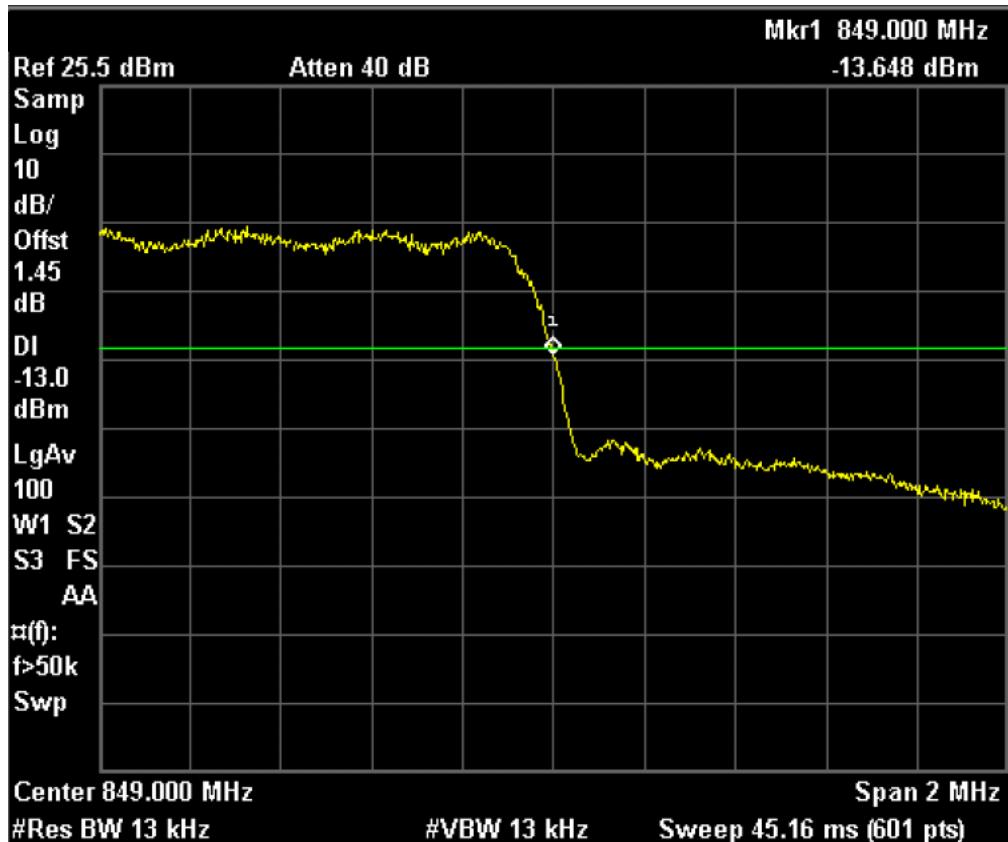


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BAND EDGE BLOCK-Channel 777

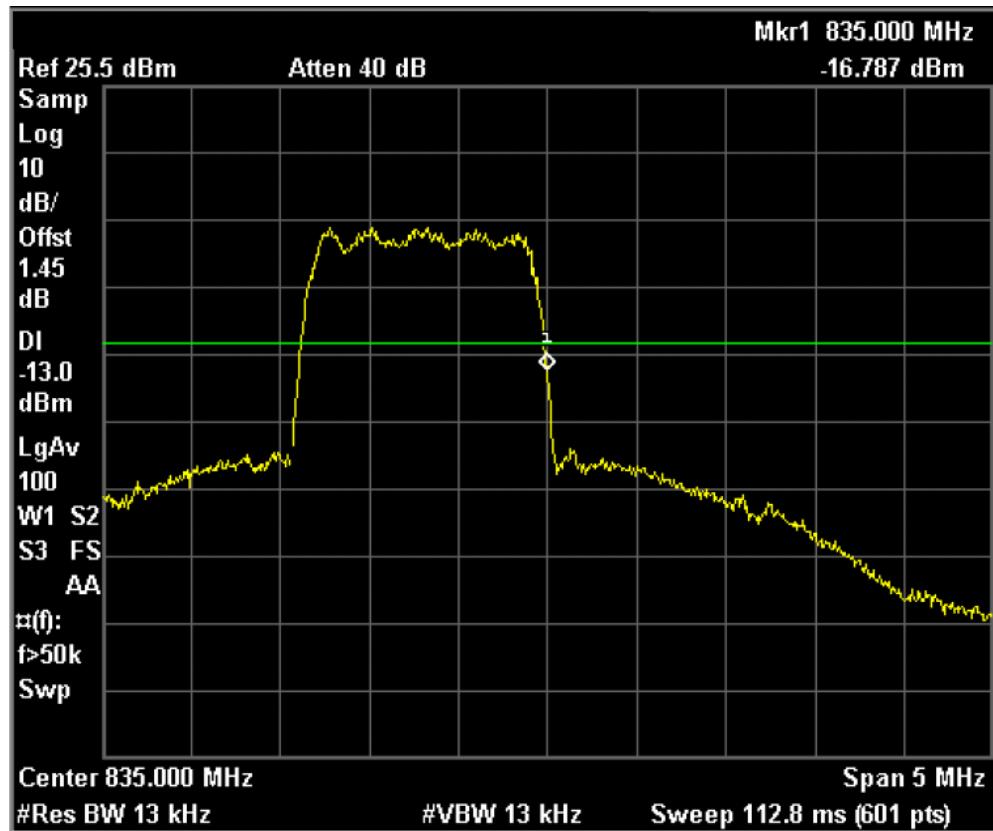


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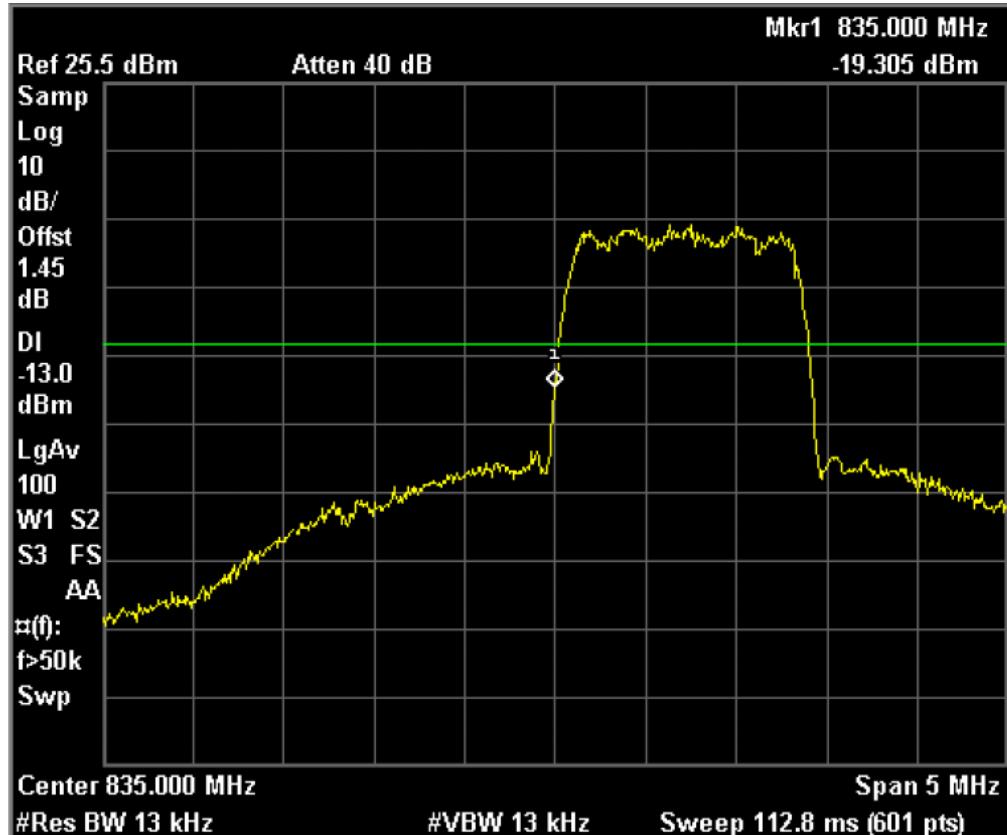
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BAND EDGE BLOCK-Channel 310



BAND EDGE BLOCK-Channel 357

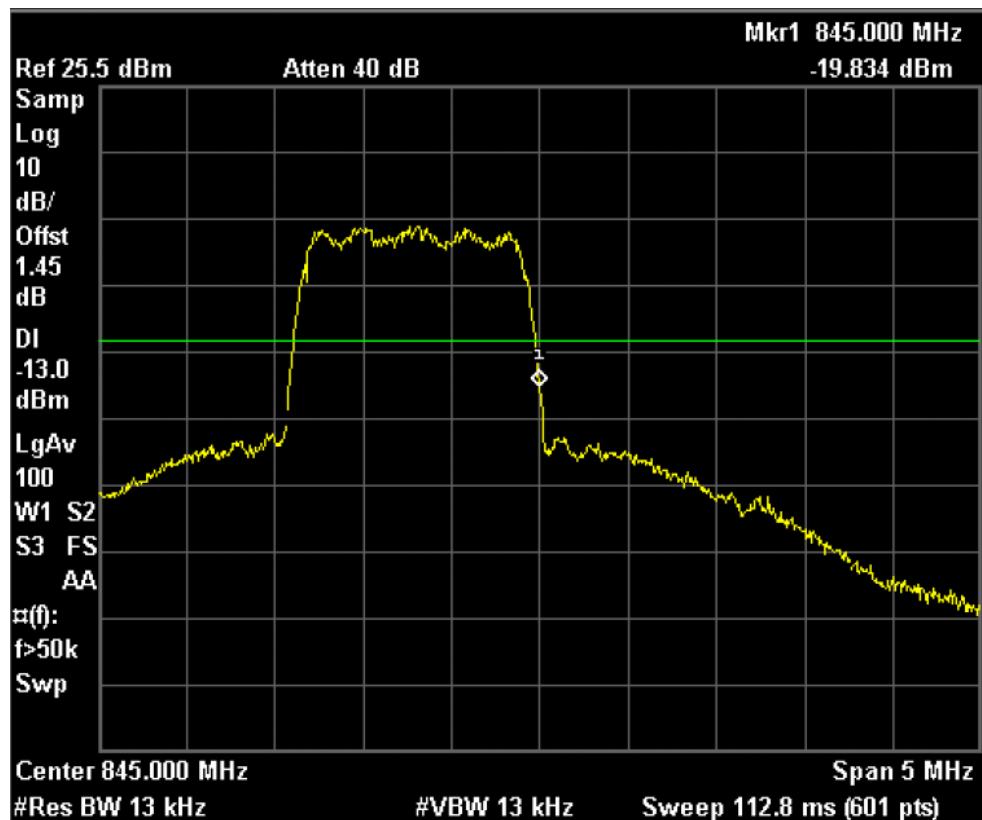


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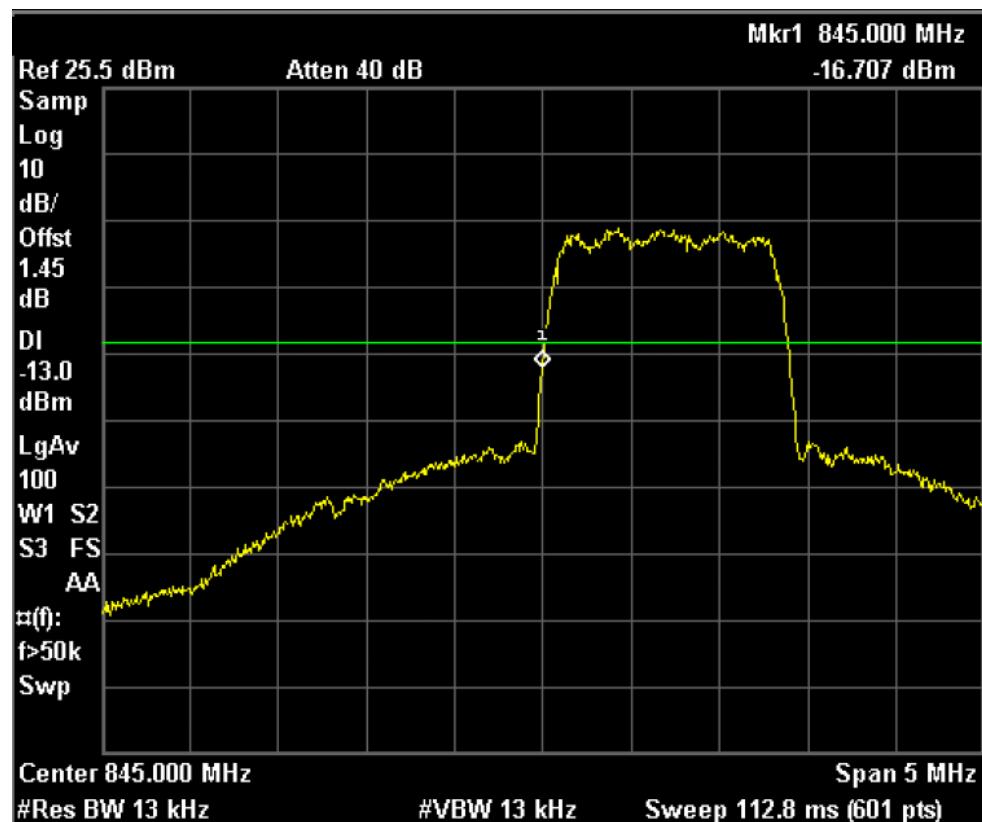
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BAND EDGE BLOCK-Channel 643



BAND EDGE BLOCK-Channel 690

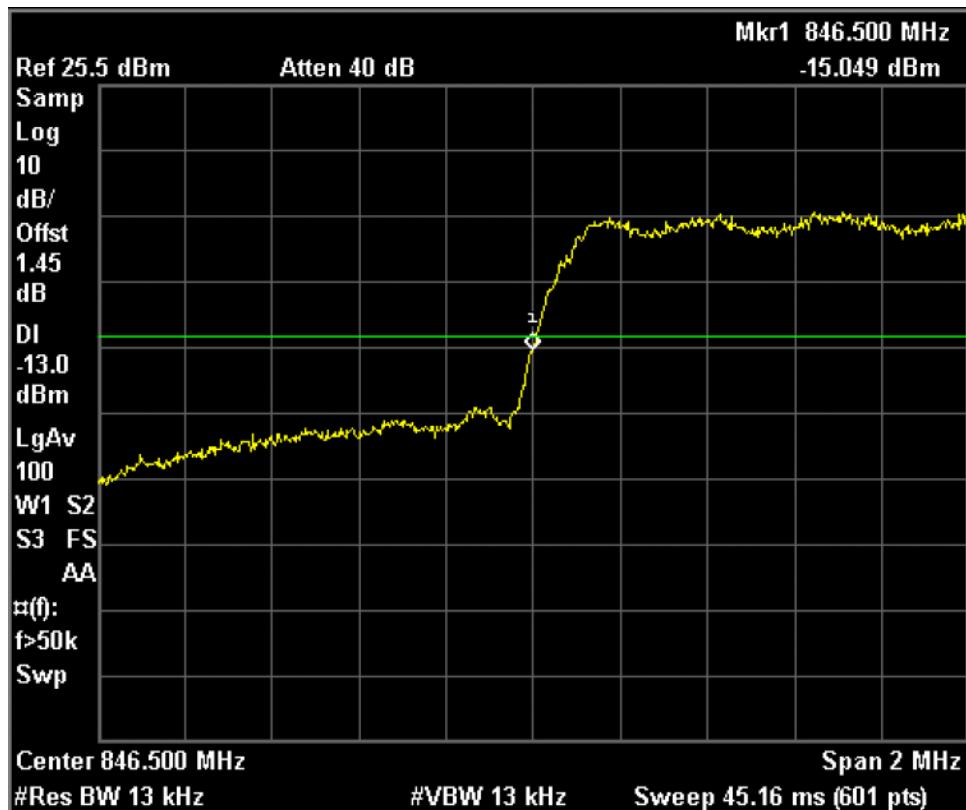


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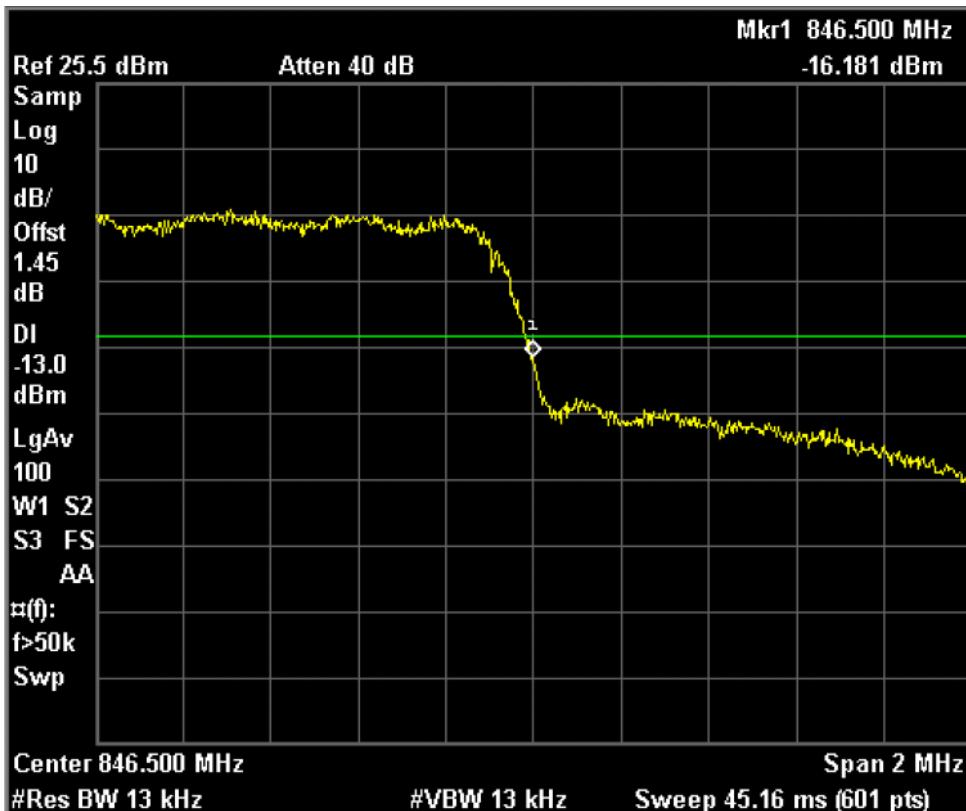
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BAND EDGE BLOCK-Channel 740



BAND EDGE BLOCK-Channel 693



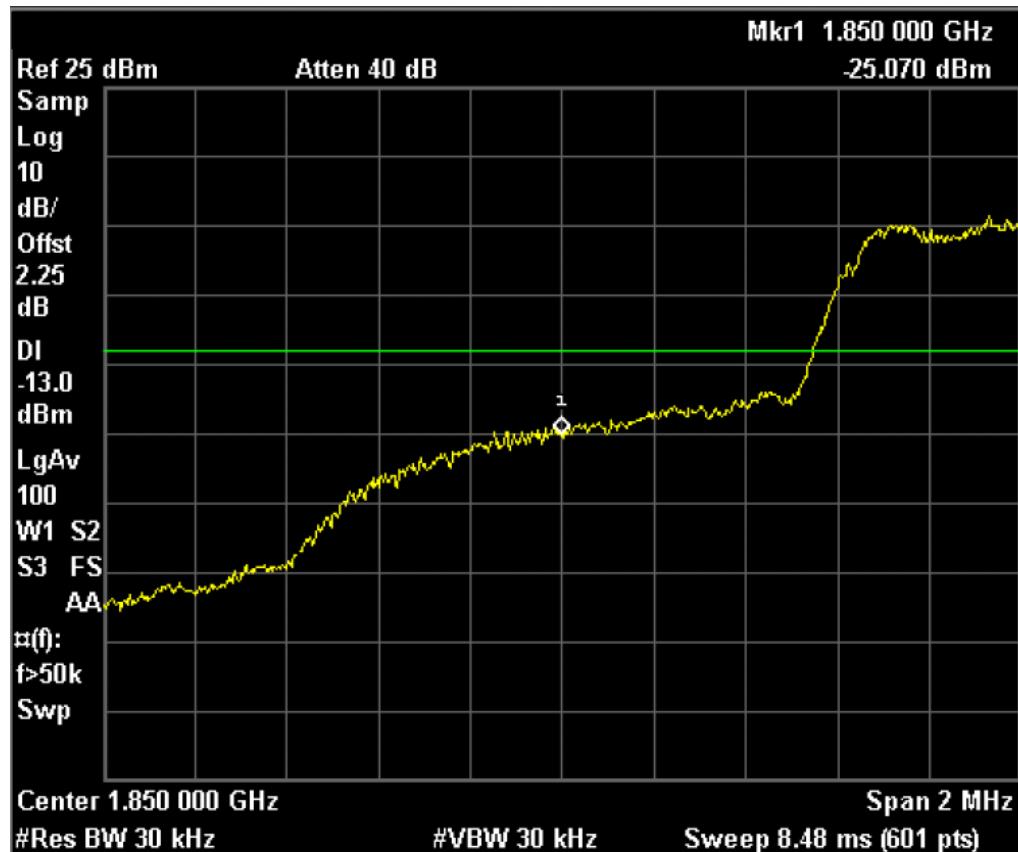
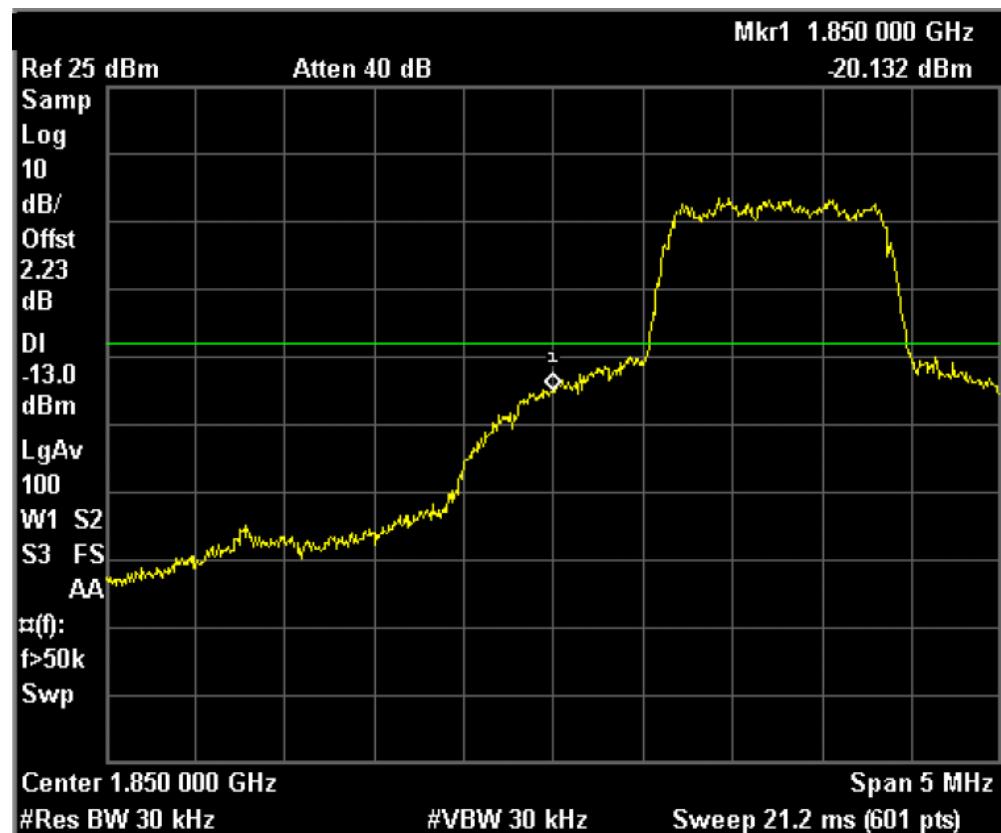
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PCS CDMA

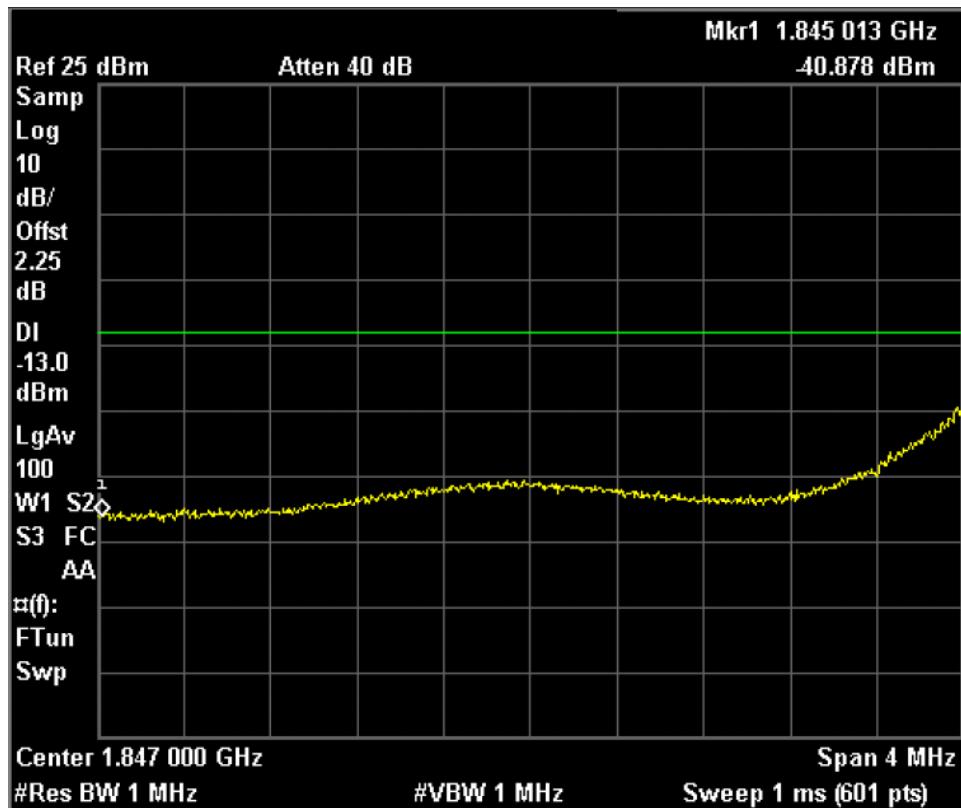
BAND EDGE BLOCK-Channel 25



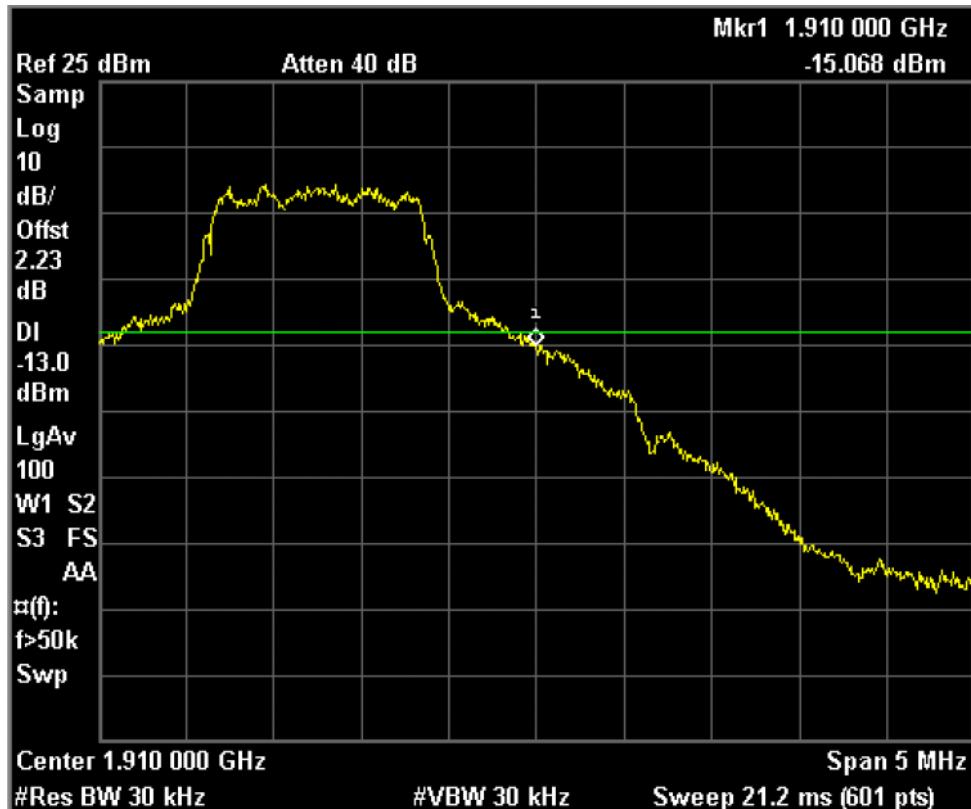
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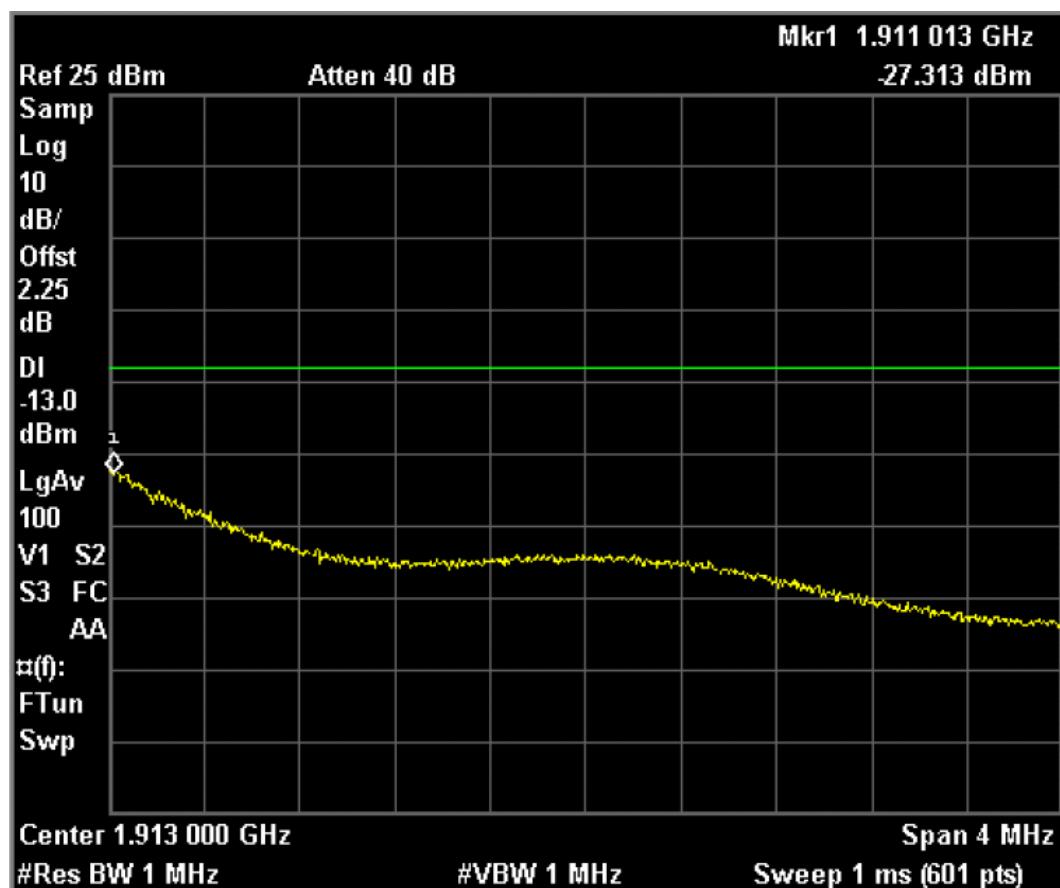
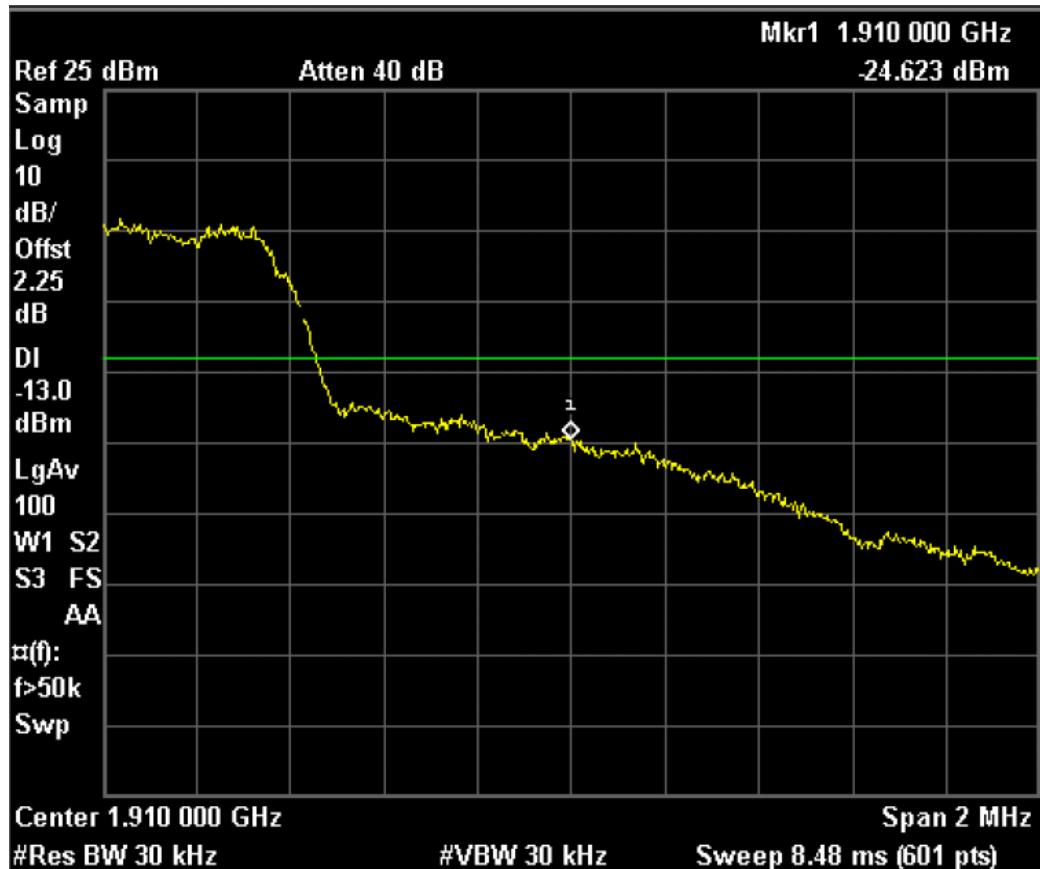
BAND EDGE BLOCK-Channel 1175



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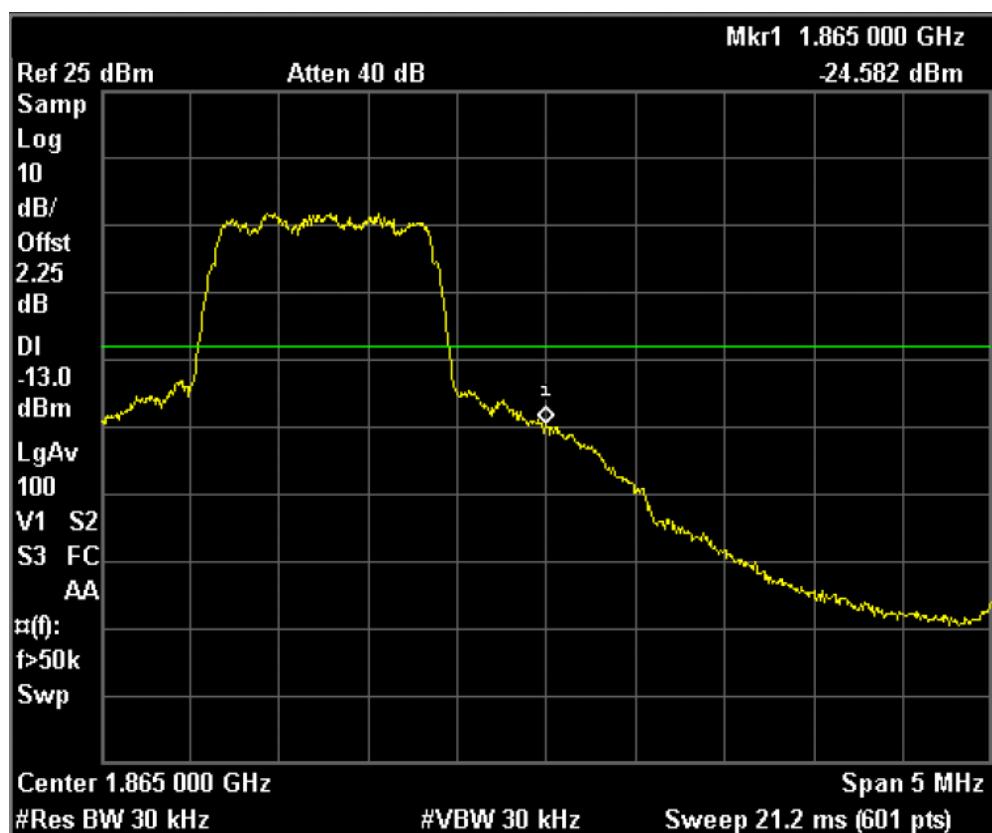


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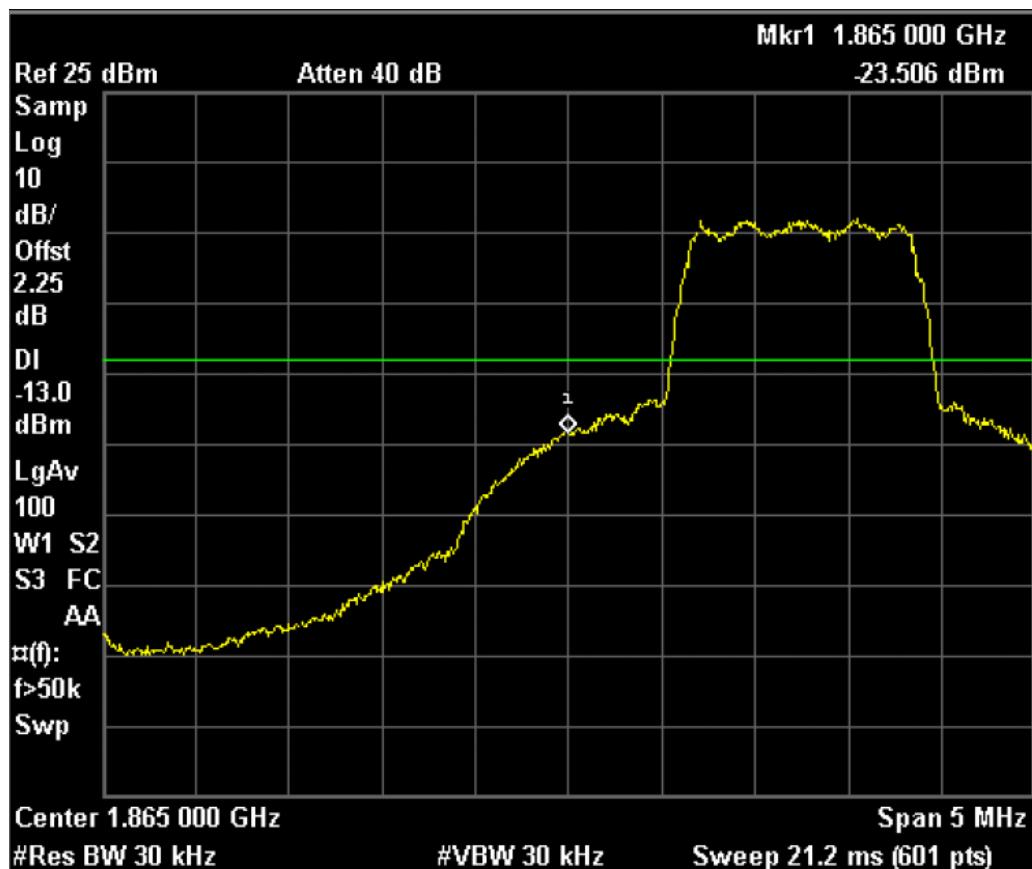
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BAND EDGE BLOCK-Channel 275



BAND EDGE BLOCK-Channel 325

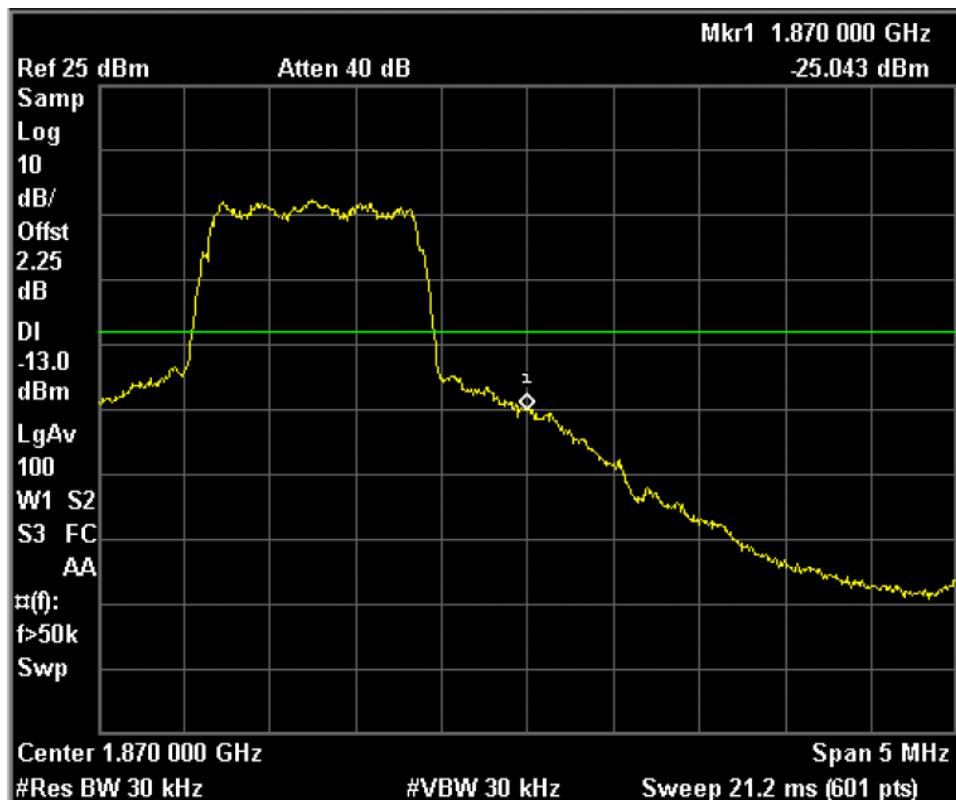


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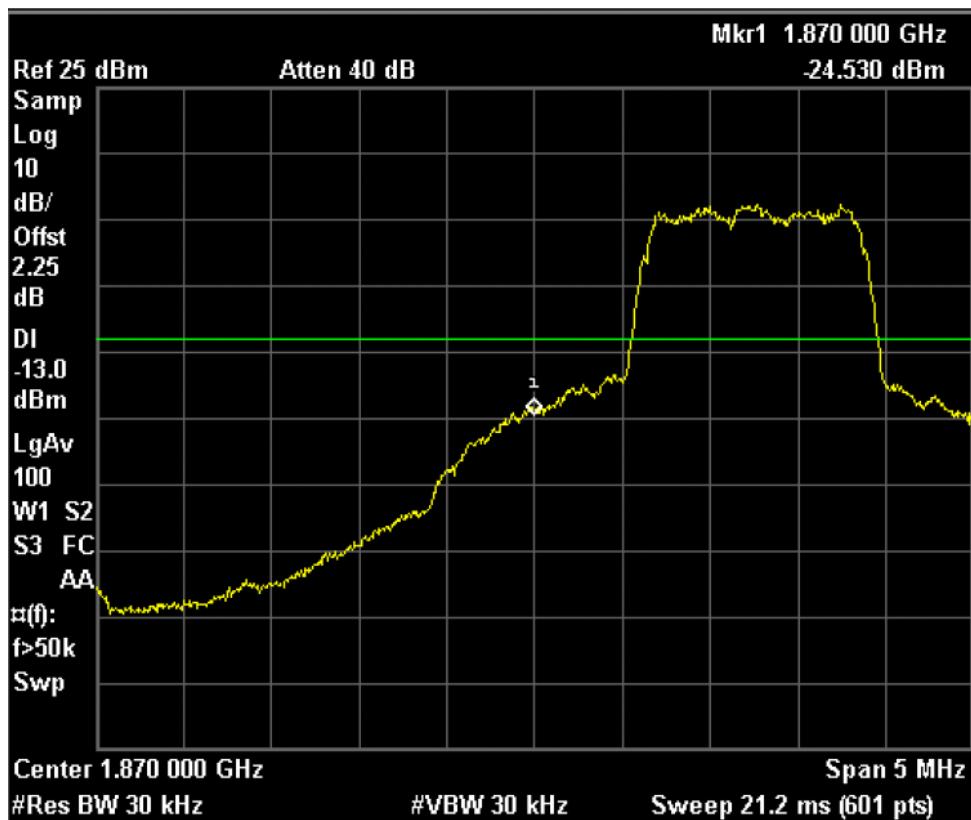
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BAND EDGE BLOCK-Channel 375



BAND EDGE BLOCK-Channel 425

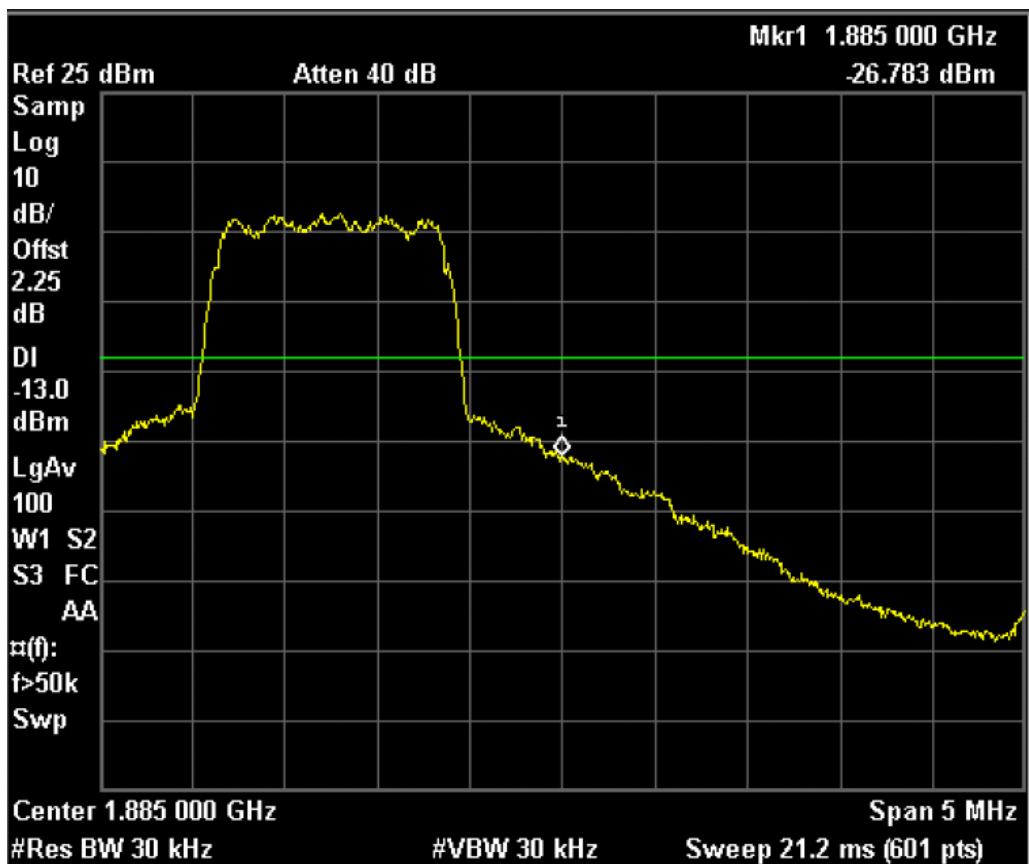


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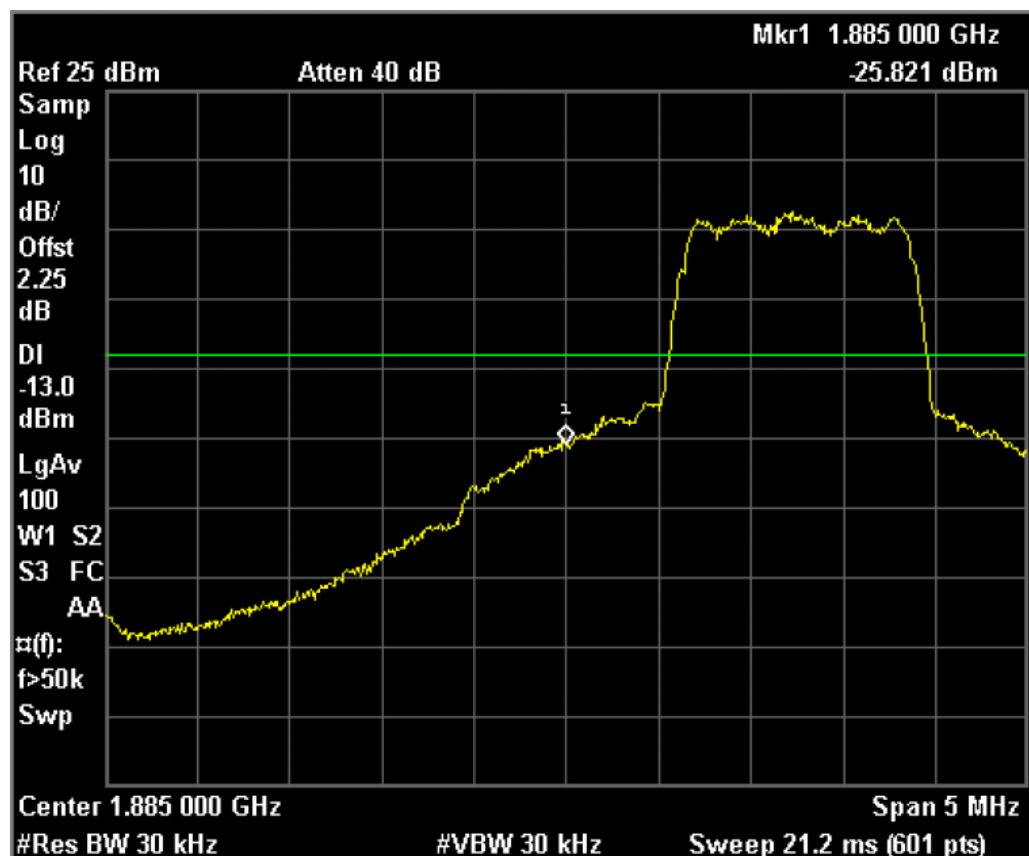
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BAND EDGE BLOCK-Channel 675



BAND EDGE BLOCK-Channel 725

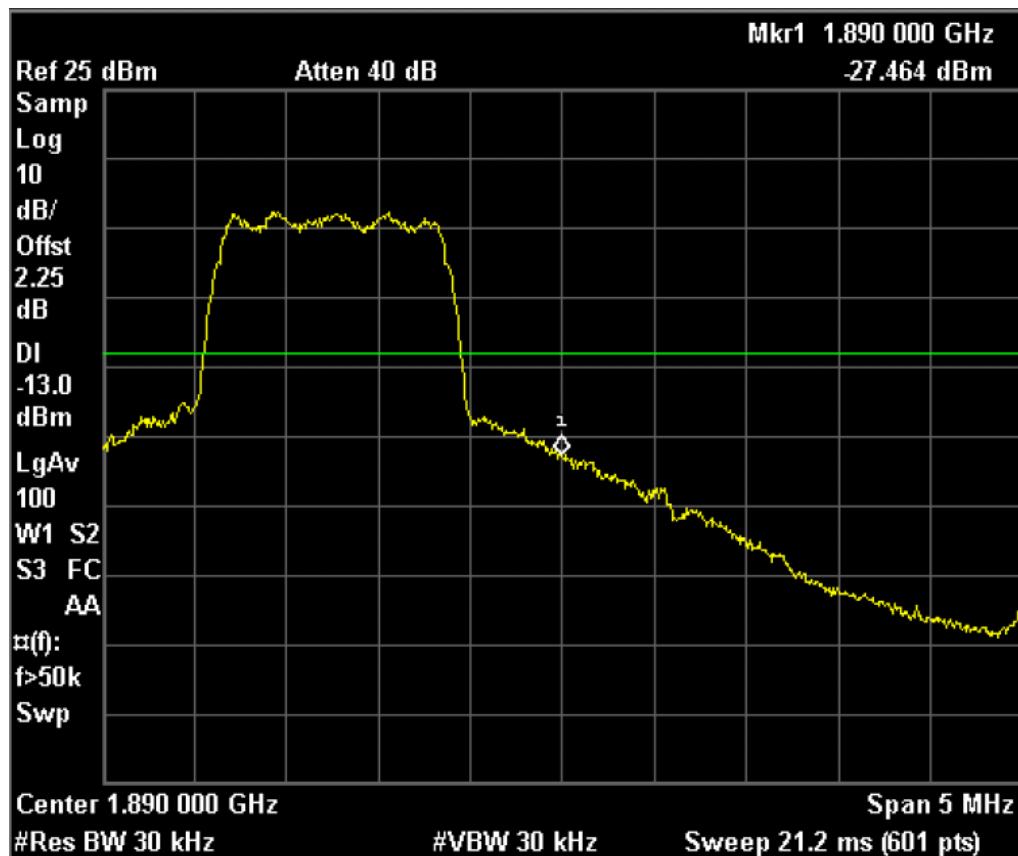


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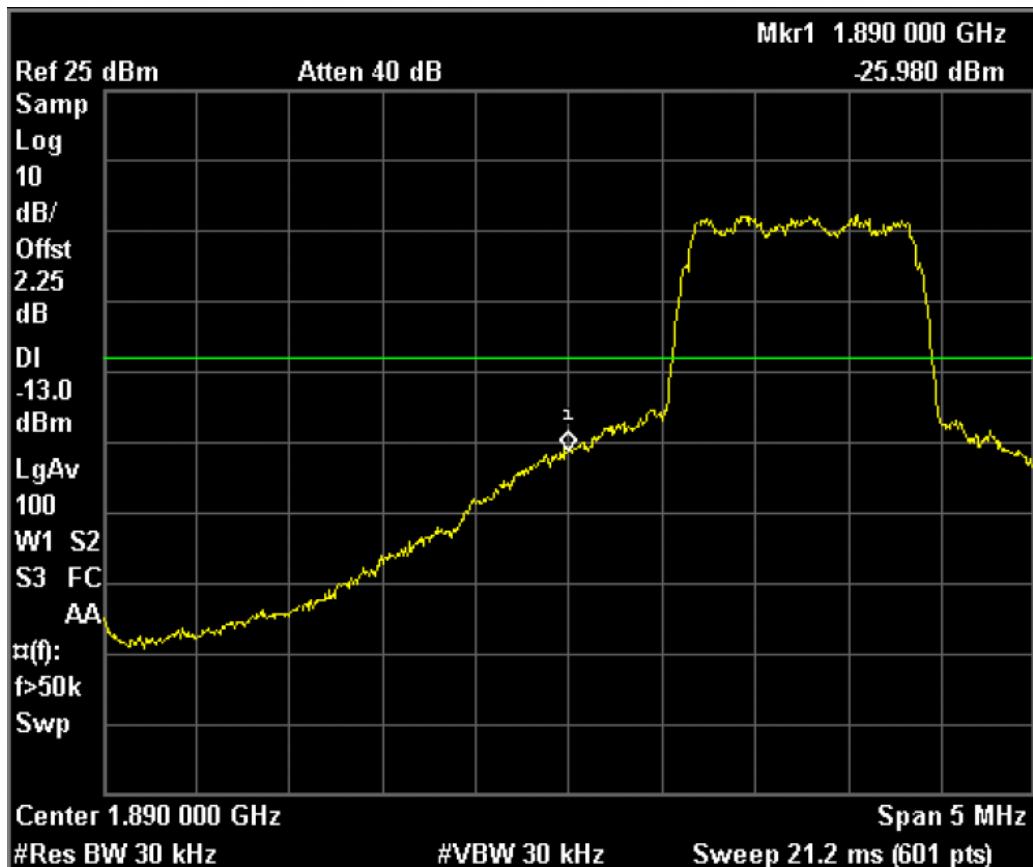
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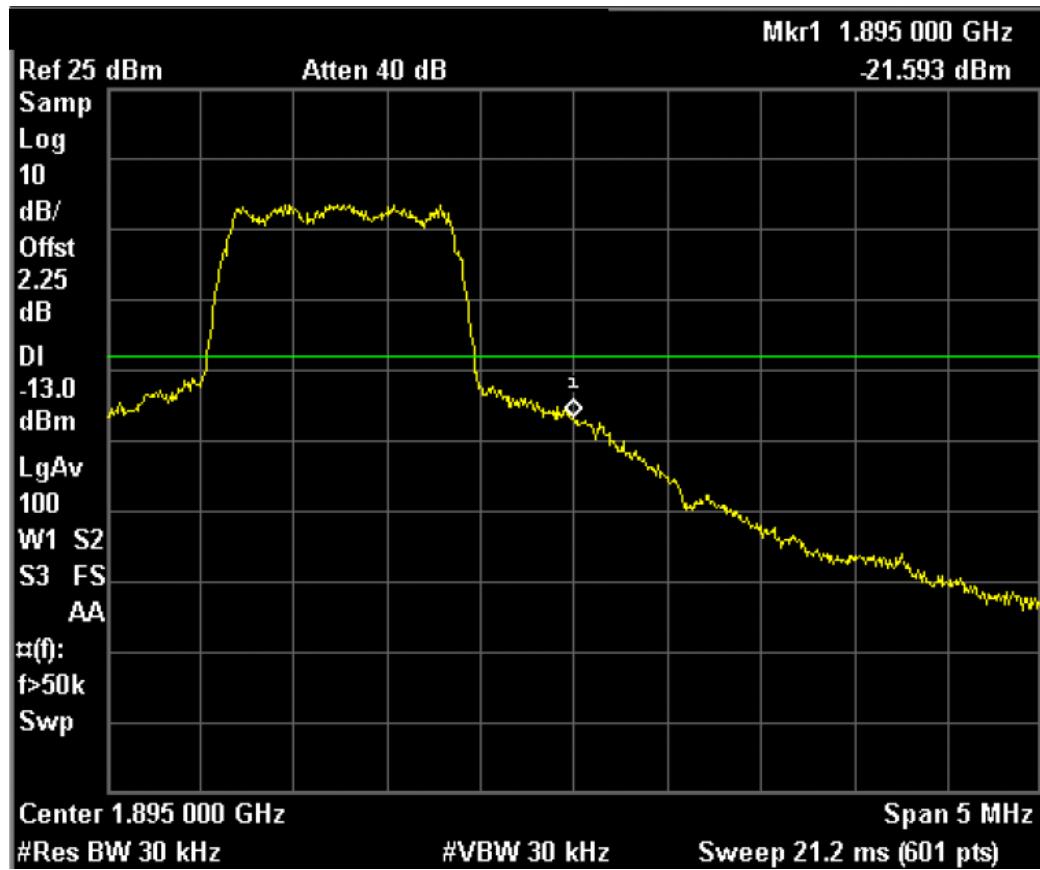
BAND EDGE BLOCK-Channel 775



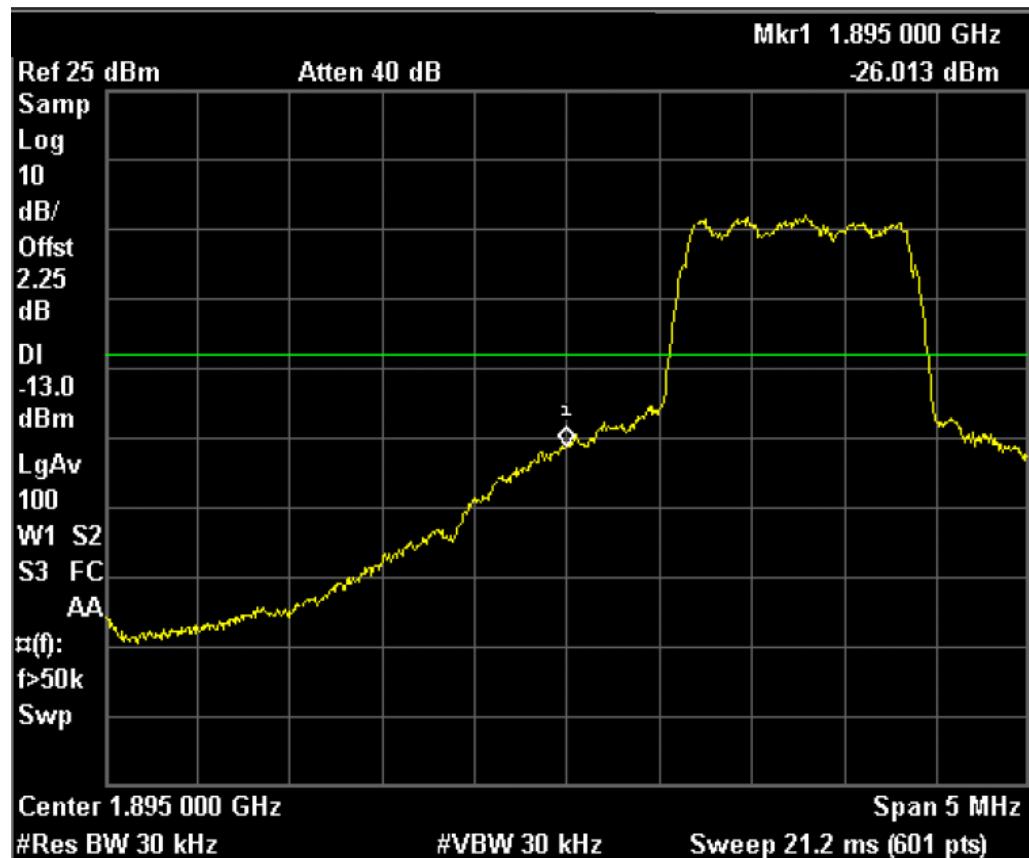
BAND EDGE BLOCK-Channel 825



BAND EDGE BLOCK-Channel 875



BAND EDGE BLOCK-Channel 925



A.8 CONDUCTED SPURIOUS EMISSION (§2.1057/§22.917/§24.238)

A.8.1 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:

Channel	Frequency (MHz)
1013	824.70
384	836.52
777	848.31

PCS CDMA

Channel	Frequency (MHz)
25	1851.25
550	1877.50
1175	1908.75

A.8.2 Measurement Limit

- (a) On 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 $43+10\log(P)\text{dB}$.

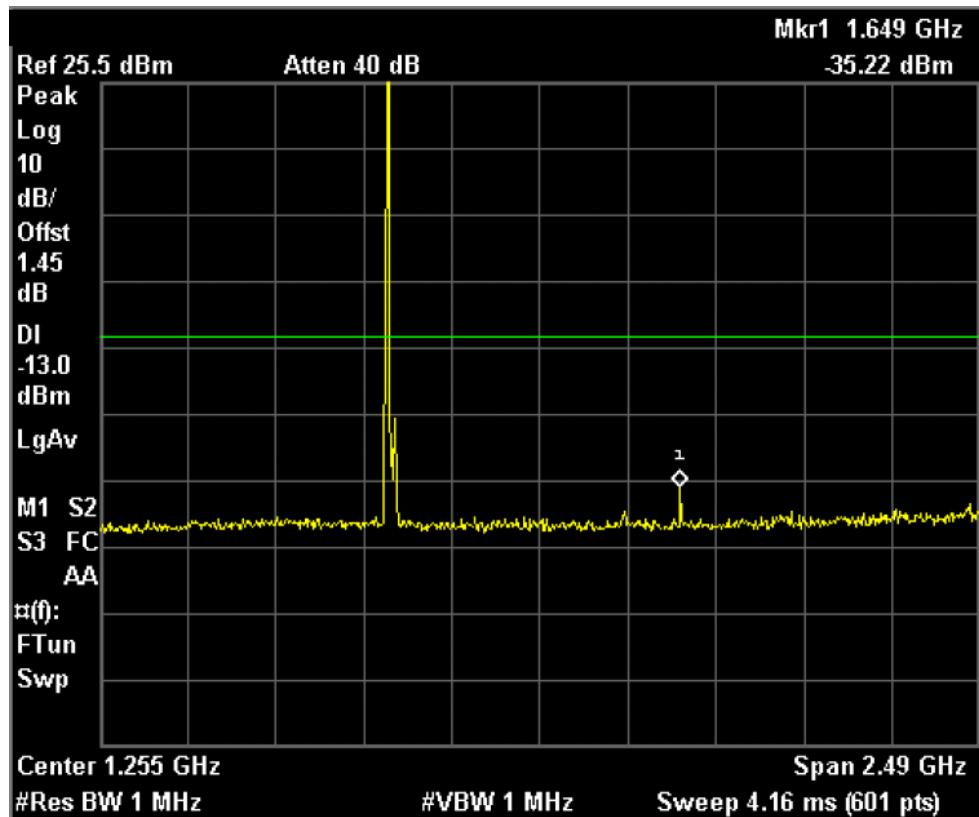
A.8.3 Measurement result

CDMA

A.8.3.1 Channel 1013: 10MHz – 2.5GHz

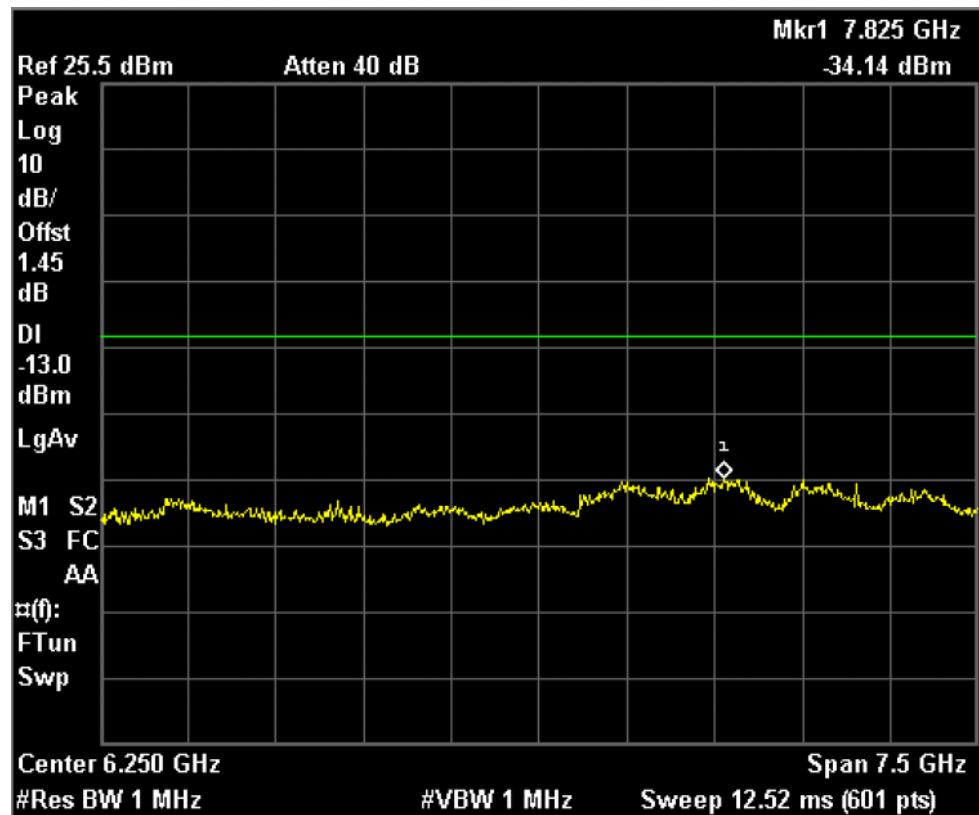
Spurious emission limit –13dBm.

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



A.8.3.2 Channel 1013: 2.5GHz – 10GHz

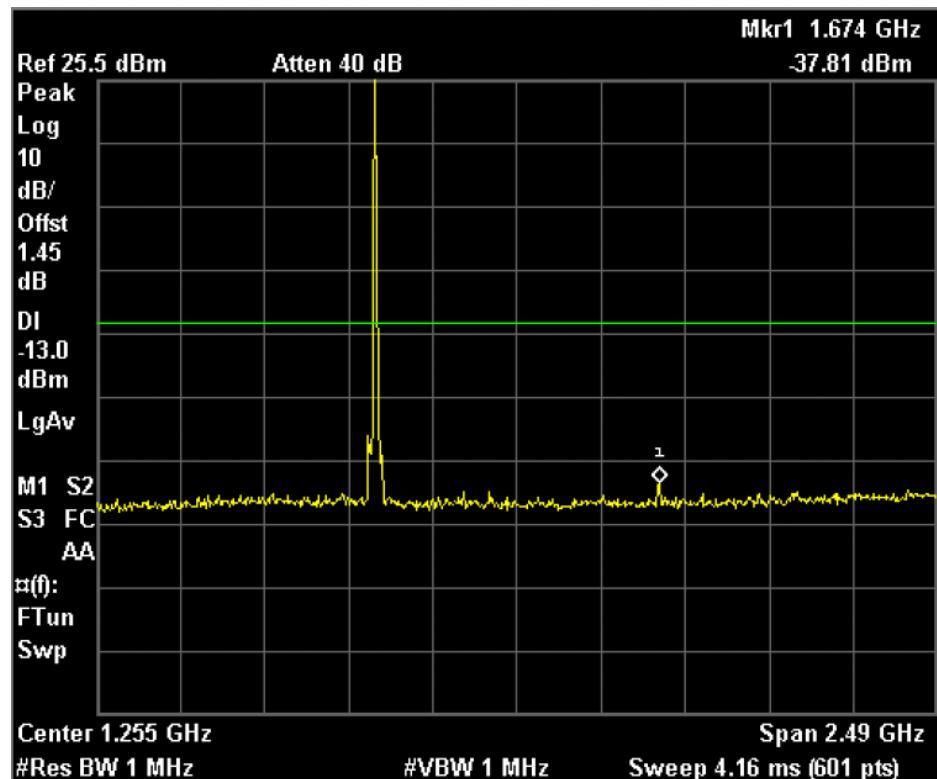
Spurious emission limit –13dBm.



A.8.3.3 Channel 384: 10MHz – 2.5GHz

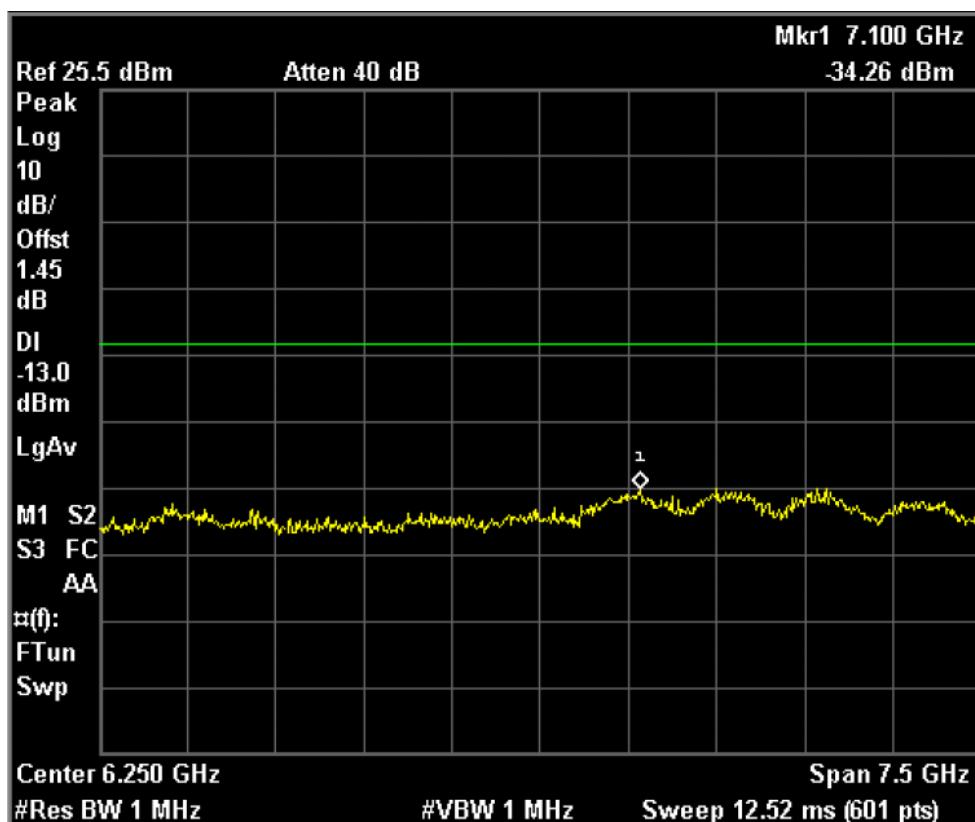
Spurious emission limit –13dBm

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



A.8.3.4 Channel 384: 2.5GHz –10GHz

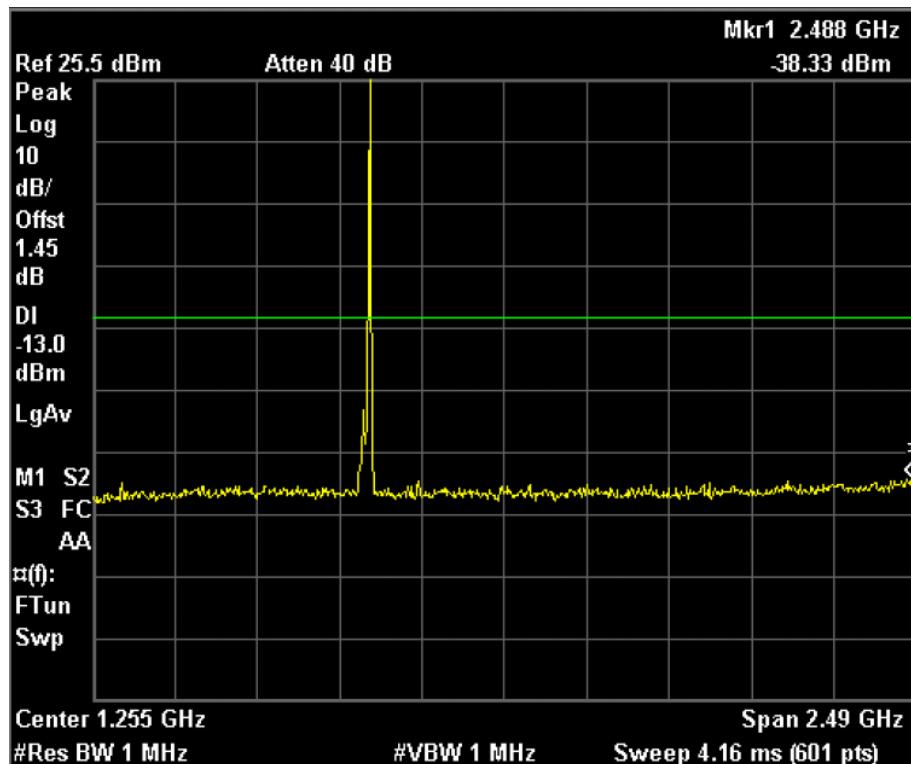
Spurious emission limit –13dBm



A.8.3.5 Channel 777: 10MHz – 2.5GHz

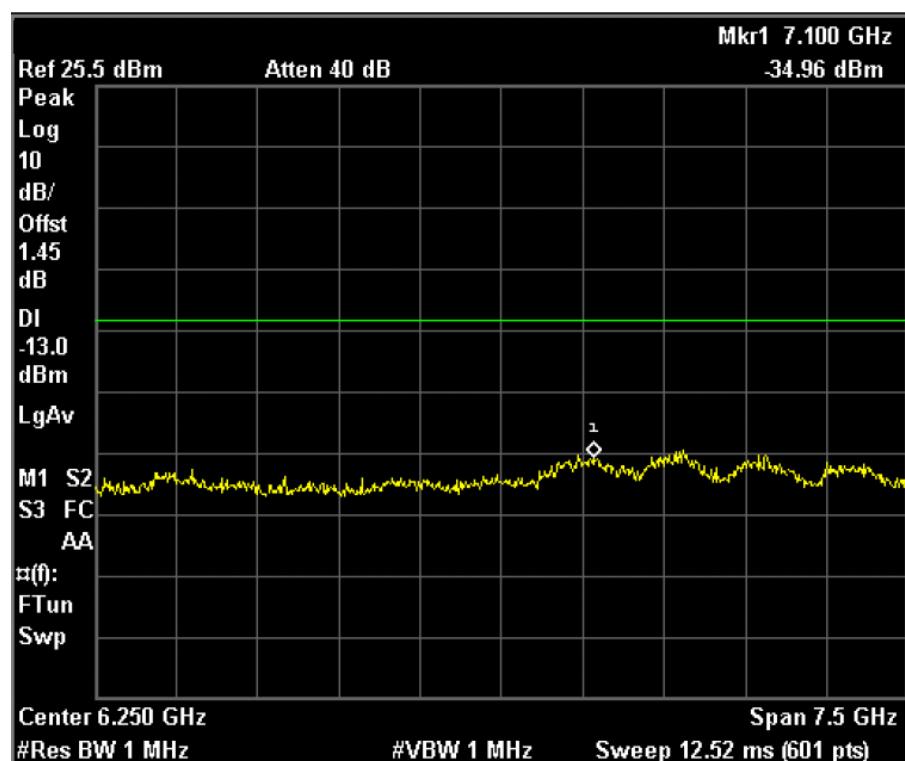
Spurious emission limit –13dBm.

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



A.8.3.6 Channel 777: 2.5GHz – 10GHz

Spurious emission limit –13dBm.

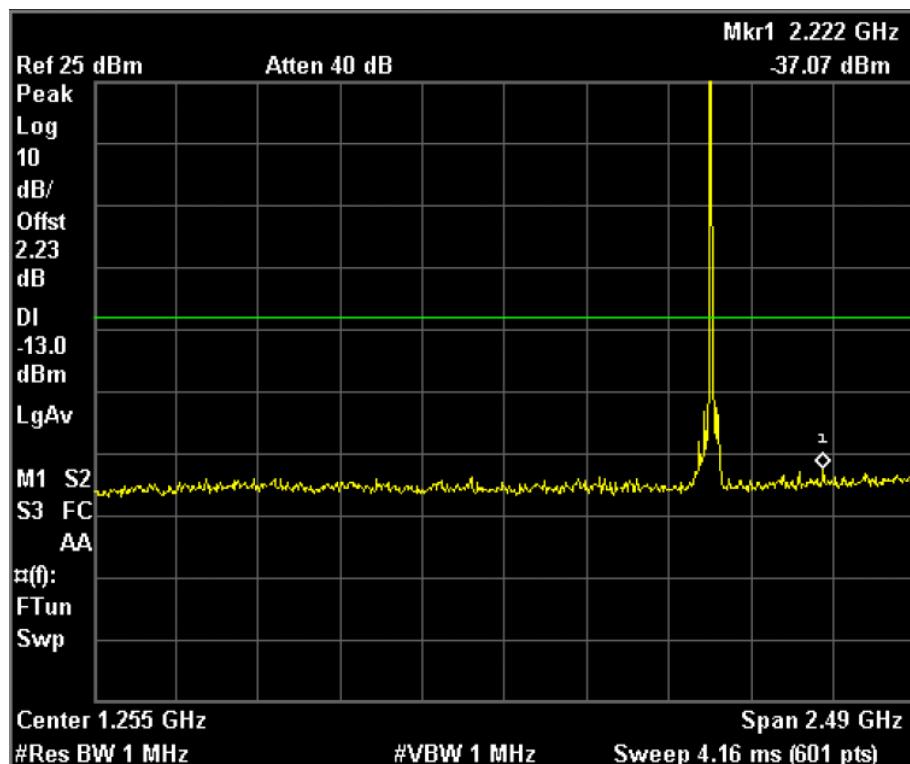


PCS CDMA

A. 8.3.8 Channel 25: 10MHz – 2.5GHz

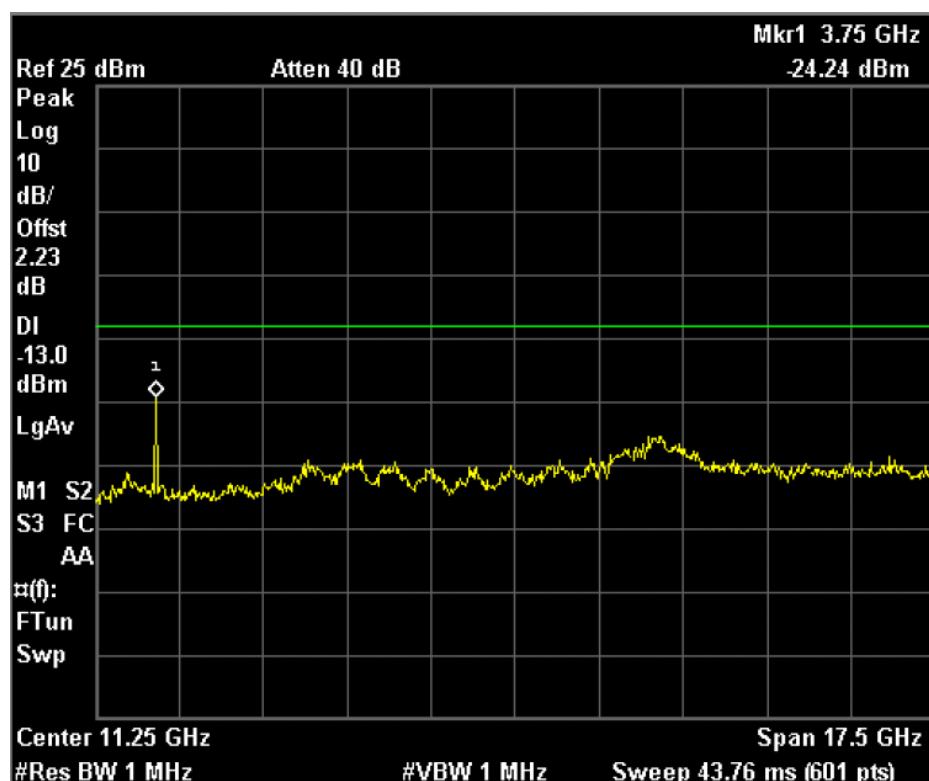
Spurious emission limit –13dBm.

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



A. 8.3.9 Channel 25: 2.5GHz – 20GHz

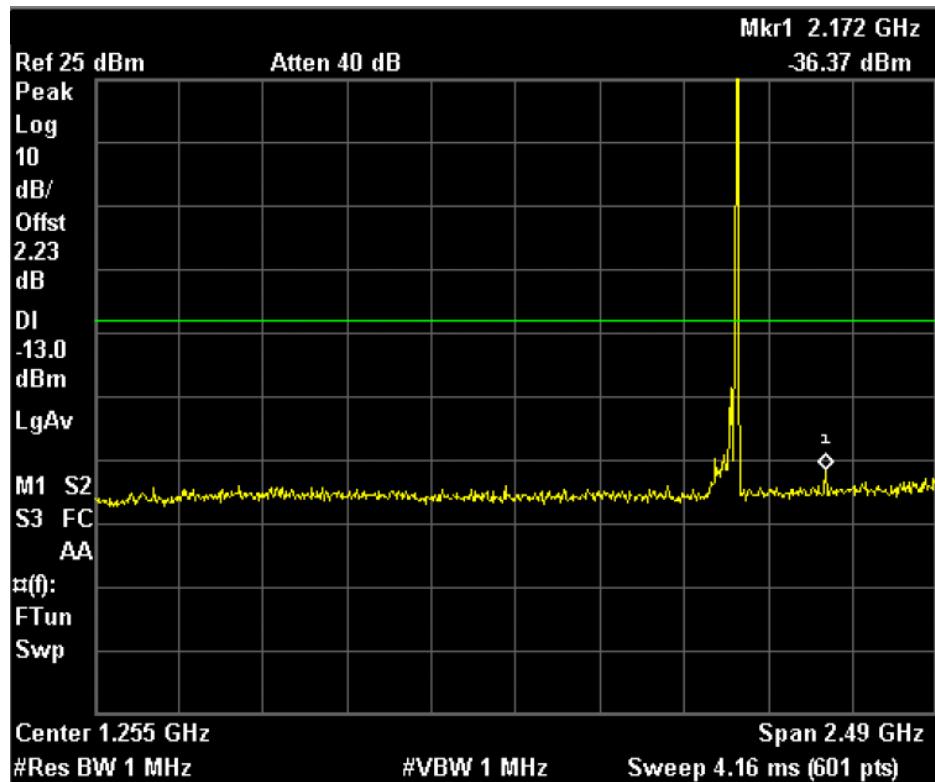
Spurious emission limit –13dBm.



A. 8.3.10 Channel 550: 10MHz – 2.5GHz

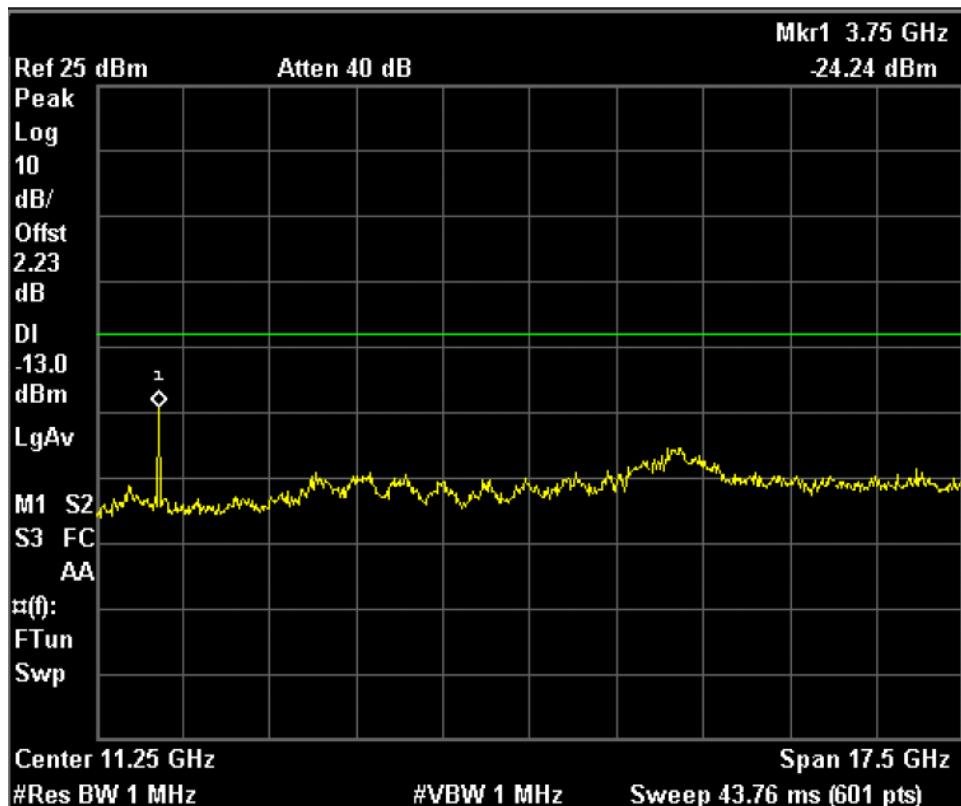
Spurious emission limit –13dBm

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



A. 8.3.12 Channel 550: 2.5GHz –20GHz

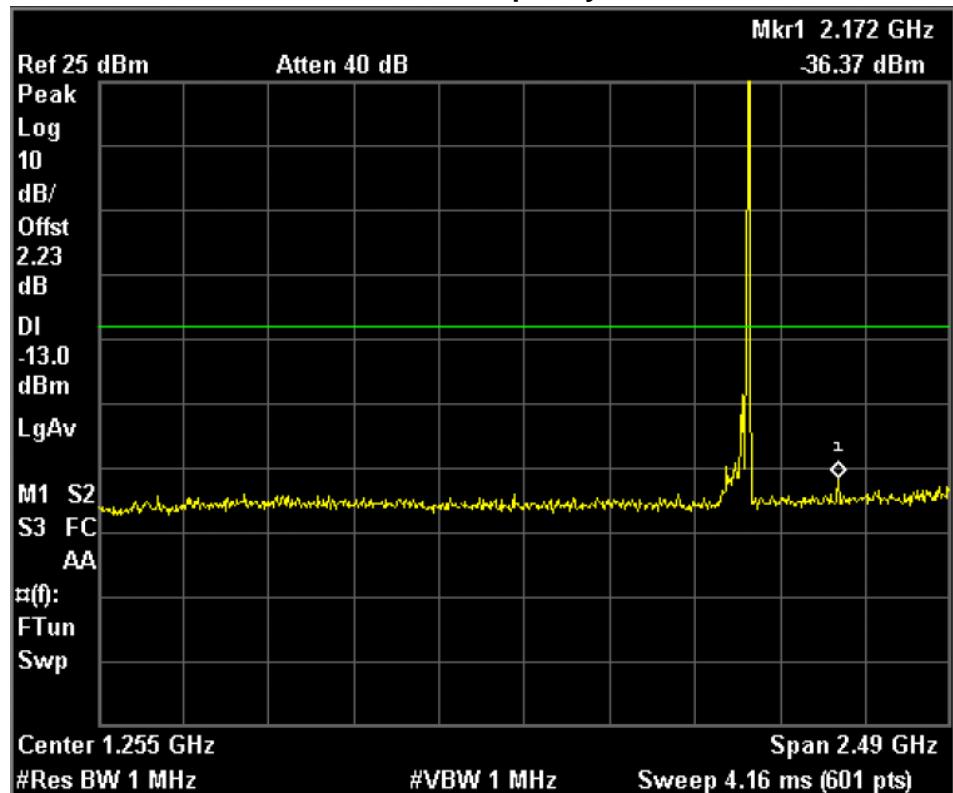
Spurious emission limit –13dBm



A. 8.3.13 Channel 1175: 10MHz – 2.5GHz

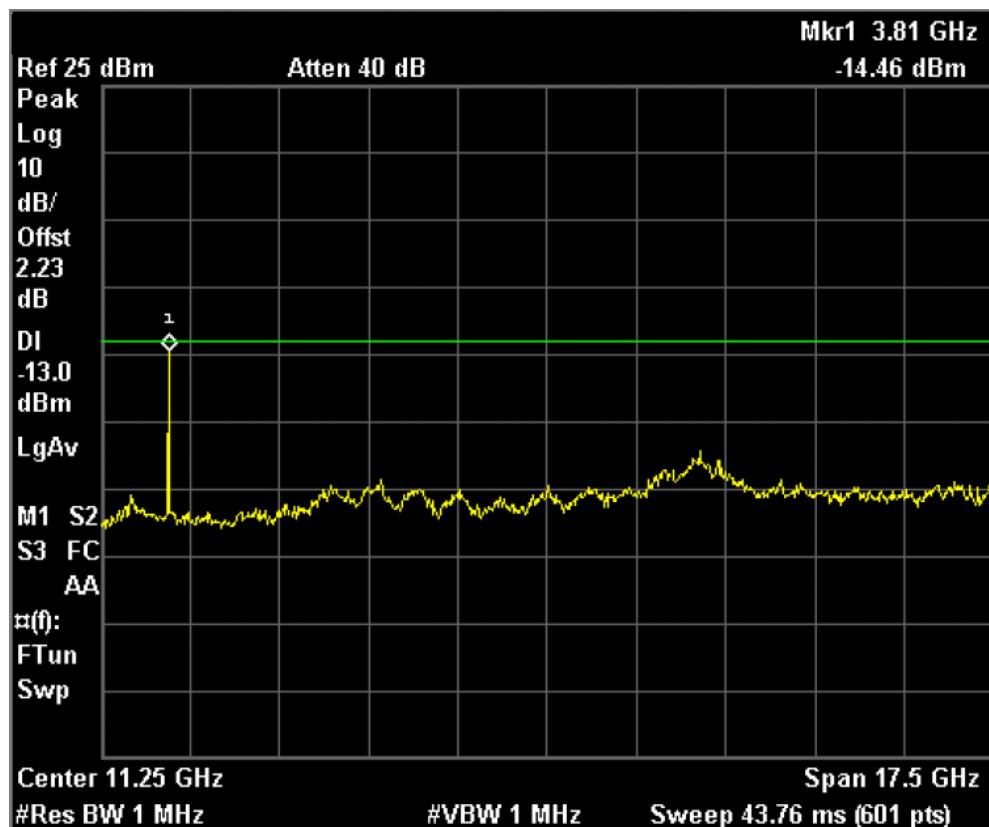
Spurious emission limit –13dBm.

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



A. 8.3.14 Channel 810: 2.5GHz – 20GHz

Spurious emission limit –13dBm.



ANNEX B PHOTOGRAPHS OF EUT

External Photo



Mobile Phone



Mobile Phone

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Mobile Phone



Mobile phone

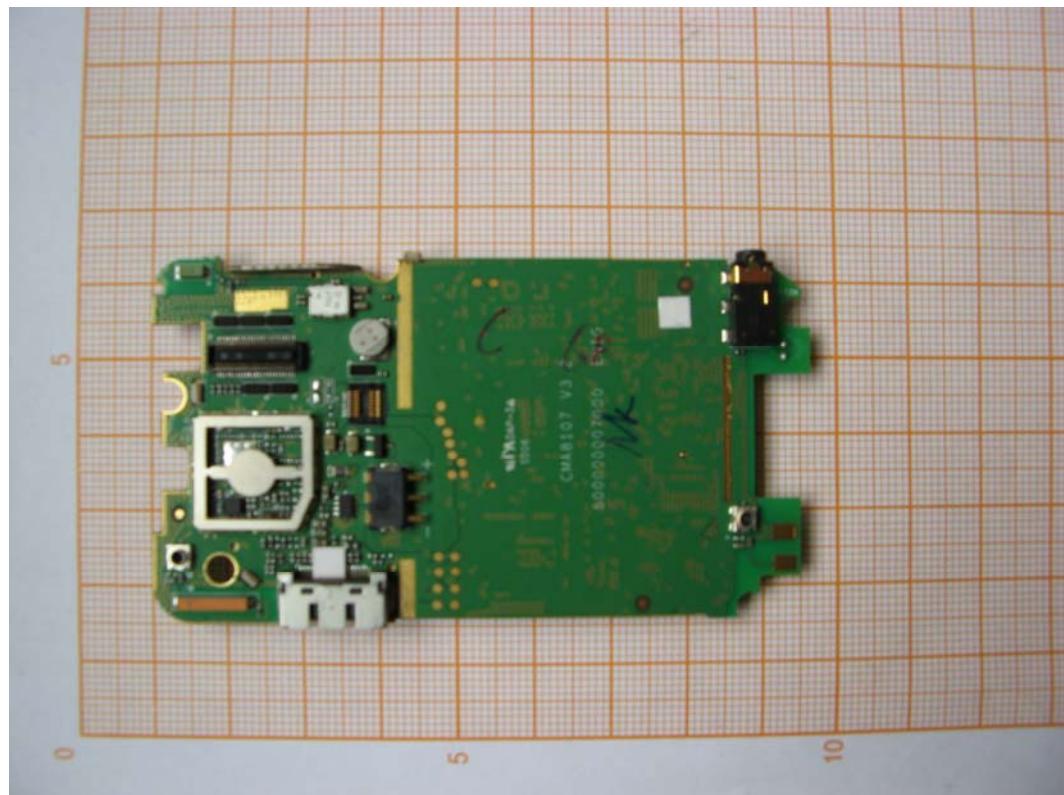


Charger (AC/DC Adapter)

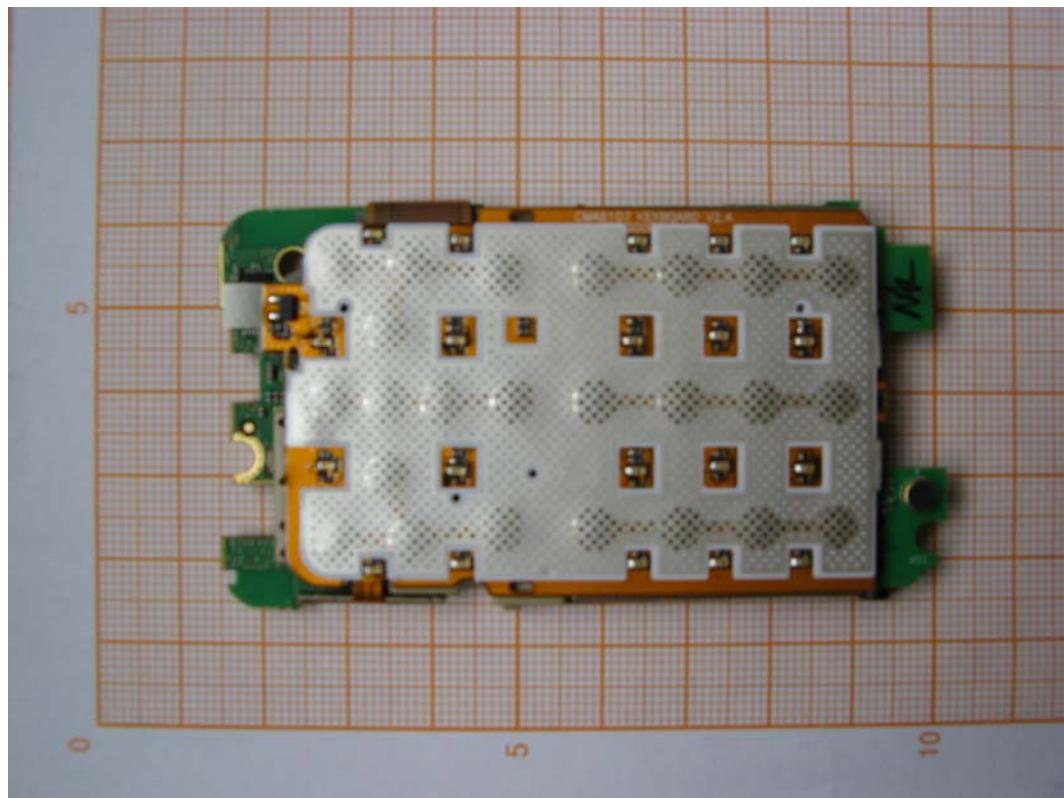
Internal Photo



Mobile phone Disassembly



Mobile phone Disassembly

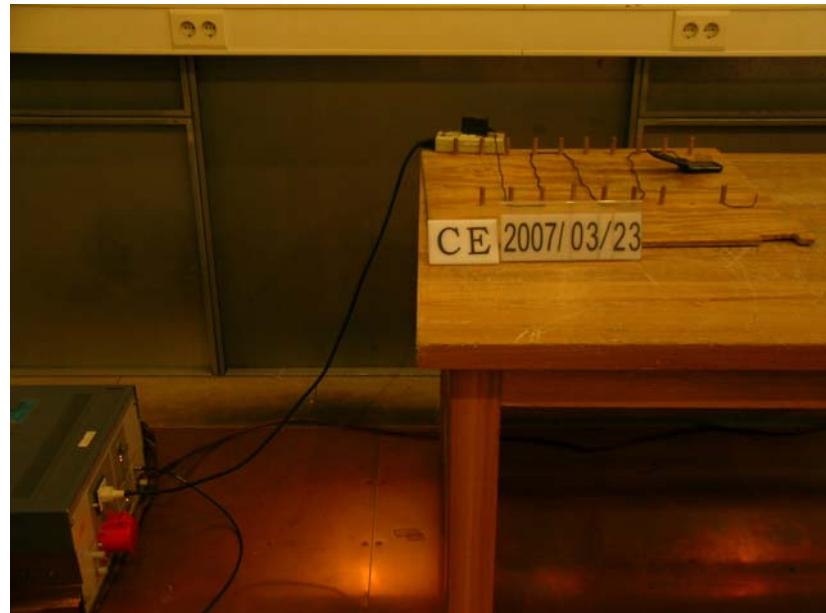


Mobile phone Disassembly



Mobile phone Disassembly

ANNEX C TEST LAYOUT



Pic1 Conducted Emission



Pic2 Radiated Spurious Emission

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