



No. L0442



No. DAT-P-114/01-10

TEST REPORT

No. FCC-PART24-2004003

Test name	FCC Test
Product	GSM Triple Frequency Mobile Station
Model	T528
Client	TCL MOBILE COMMUNICATION CO., LTD.
Type of test	Entrusted

Telecommunication Metrology Center
of Ministry of Information Industry



Notice

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Product	GSM Triple Frequency Mobile Station	Model	T528
		Trade mark	
Client	TCL MOBILE COMMUNICATION CO., LTD.	Type of test	Entrusted
Manufacturer	TCL MOBILE COMMUNICATION CO., LTD.	Arrival Date of sample	Jun 01, 2004
Place of sampling	(Blank)	Carrier of the samples	TCL MOBILE COMMUNICATION CO., LTD.
Quantity of the samples	1	Date of product	(Blank)
Base of the samples	(Blank)	Items of test	8
Series number	No1: SAMPLE		
Standard(s)	FCC Part 24		
Conclusion	Final Judgment: Pass		
		 (Stamp)	
			Date of issue: Jun. 09 th , 2004
Comment	The test result only responds to the tested sample.		

Approved by

(Lu Minniu)

Revised by

(Wang Hongbo)

Performed by

(Song Chongwen)

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1 COMPETENCE AND WARRANTIES

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2 GENERAL CONDITIONS

- 2.1 This report only refers to the item that has undergone the test.
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3 ABOUT EUT

3.1 Addressing Information Related to EUT

Table 1: Applicant's details (The Client)

Name or Company	TCL MOBILE COMMUNICATION CO., LTD.
Address/Post	No.23 Zone, ZhongKai High & Technology Development Zone, HuiZhou, GuangDong, China.
City	HuiZhou
Postal Code	516006
Country	China
Telephone	86-752-2611888
Fax	86-752-2611800

Table 2: Manufacturer's details

Name or Company	TCL MOBILE COMMUNICATION CO., LTD.
Address/Post	No.23 Zone, ZhongKai High & Technology Development Zone, HuiZhou, GuangDong, China.
City	HuiZhou
Postal Code	516006
Country	China
Telephone	86-752-2611888
Fax	86-752-2611800

3.2 Equipment under test (EUT)

Model	T528
Description	GSM 1900 Mobile Phone
IMEI	352560000010000
Hardware status	1.4
Software status	01.02.08N
Frequency	1850.2MHz – 1909.8MHz for PCS 1900
Type of modulation	GMSK
Number of channels	299 for PCS 1900
Antenna	Tri-band
Power supply	Battery or Charger (AC Adaptor)
Output power	29.94 dBm maximum EIRP measured for PCS 1900
Extreme vol. Limits	3.3VDC to 4.2VDC (nominal: 3.7VDC)
Extreme temp. Tolerance	-30°C to +50°C

3.3 Photographs of Equipment under test

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

4 LABORATORY ENVIRONMENT

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

Temperature	Min. = 15 , Max. = 30
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

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

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Temperature	Min. = 15 , Max. = 35
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 , Max. = 30
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 , Max. = 30
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

5 SUMMARY OF TEST RESULTS

Abbreviations used in this clause:	
—Pass	P
—Not applicable	NA
—Fail	F
—Not measured	NM

Clause	List	Verdict
1	POWER OUTPUT	P
2	FREQUENCY STABILITY	P
3	OCCUPIED BANDWIDTH	P
4	EMISSION BANDWIDTH	P
5	EMISSION LIMIT	P
6	BAND EDGE COMPLIANCE	P
7	CONDUCTED SPURIOUS EMISSIONS	P
8	CONDUCTED EMISSIONS	P

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6 MAIN TEST INSTRUMENTS

NO.	NAME	TYPE	SERIES NUMBER	PRODUCER
1	Test Receiver	ESS	847151/015	R&S
2	Test Receiver	ESI40	831564/002	R&S
3	BiLog Antenna	3142B	9908-1403	EMCO
4	BiLog Antenna	3142B	9908-1405	EMCO
5	Signal Generator	SMT06	831285/005	R&S
6	Signal Generator	SMP04	100070	R&S
7	LISN	ESH2-Z5	829991/012	R&S
8	Spectrum Analyzer	E4440A	MY41000262	Agilent
9	Universal RadioCommunication Tester	CMD200	100680	R&S
10	Dual-Ridge Waveguide Horn Antenna	3115	9906-5827	EMCO
11	Dual-Ridge Waveguide Horn Antenna	3116	2663	EMCO
12	Dual-Ridge Waveguide Horn Antenna	3116	2661	EMCO
13	Climatic chamber	PL-2G	343074	ESPEC

7 TEST PERIOD

The performed test started on June. 1th, 2004 and finished on June. 9th, 2004.

8 TEST LOCATION

Safety & EMC laboratory of Telecommunication Metrology Center of Ministry of Information Industry.

ANNEX A MEASUREMENT RESULTS

A.1 OUTPUT POWER

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 paragraph contains Burst Average conducted 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 with pseudo random data modulation.

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

These measurements were done at 3 frequencies, 1850.2 MHz, 1880.0 MHz and 1909.8 MHz (bottom, middle and top of operational frequency range).

A.1.2.2 Limit

Power step	Nominal Peak output power (dBm)	Tolerance (dB)
0	≤30dBm(1W)	± 2

A1.2.3 Measurement result

Frequency(MHz)	Power Step	Peak output power
1850.2	0	29.86
1880	0	29.94
1909.8	0	29.70

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."

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 (Power Step 0).
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 FCC 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, $ERP = EIRP - 2.15\text{dBi}$.

A.1.3.3 Limits

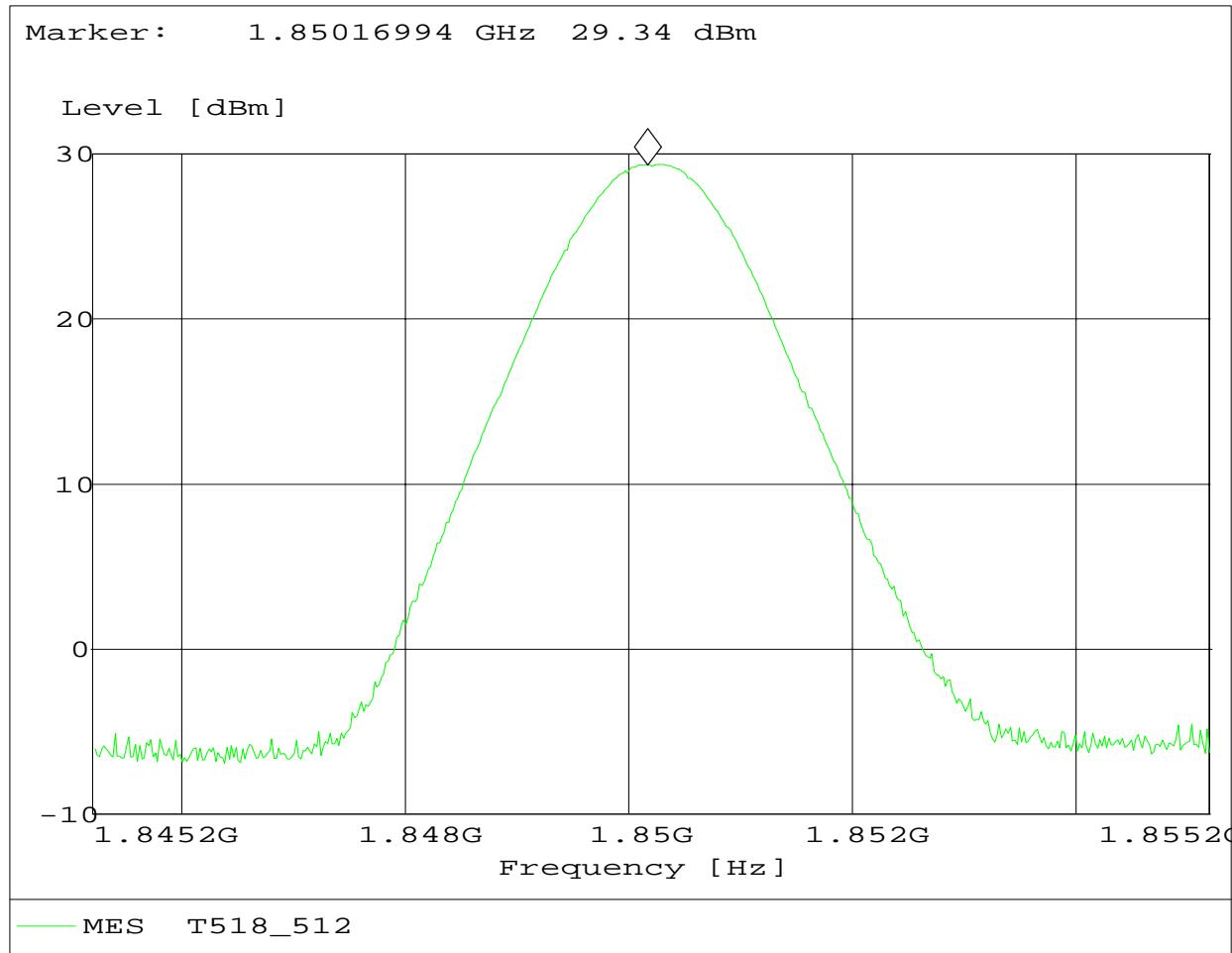
Power Step	Burst Peak EIRP (dBm)
0	$\leq 30\text{dBm}$ (1W)

A.1.3.4 Power Measurements

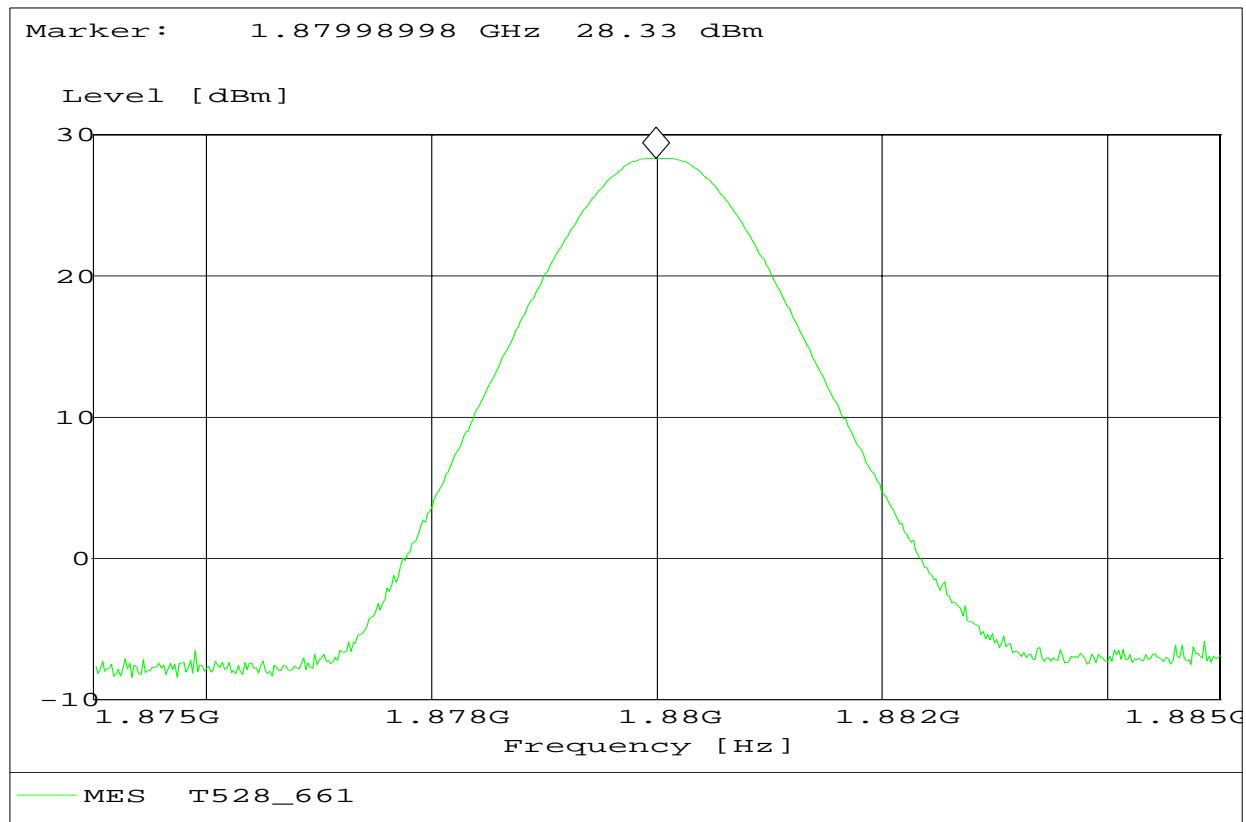
channel	Frequency(MHz)	Power step	Burst Peak EIRP(dBm)
512	1850.2	0	29.34
661	1880	0	28.33
810	1909.8	0	29.22

ANALYZER SETTINGS: RBW = VBW = 3MHz

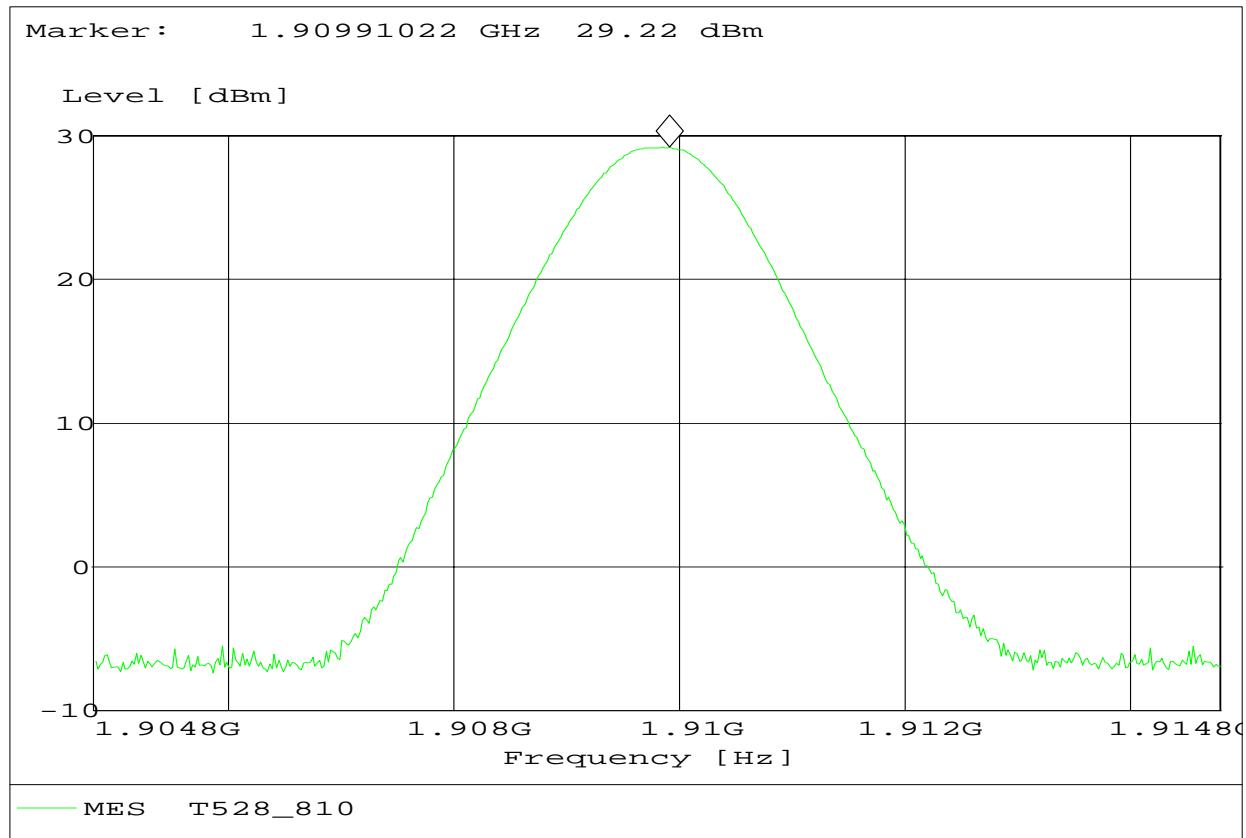
A.1.3.3.1 EIRP CHANNEL 512



A.1.3.3.2 EIRP CHANNEL 661



A.1.3.3.3 EIRP CHANNEL 810



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 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 and in a simulated call on channel 661 (centre channel), 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 0.1 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 +50 °C.
7. With the EUT, powered via nominal voltage, connected to the CMU200 and in a simulated call on channel 661 (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 increments from +50 °C to -30 °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 3.3VDC and 4.2VDC, with a nominal voltage of 3.7VDC. 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. These voltages represent a tolerance of -10 % and +12.5 %. For the purposes of measuring frequency stability these voltage limits are to be used.

A.2.2.1 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.

A.2.3 Measurement results

A.2.3.1 Frequency Error vs Voltage

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.3	24	0.013
3.4	33	0.018
3.5	26	0.014
3.6	27	0.014
3.7	24	0.013
3.8	24	0.013
3.9	27	0.014
4.0	28	0.015
4.1	33	0.018
4.2	31	0.016

A.2.3.2 Frequency Error vs Temperature

temperature()	Frequency error(Hz)	Frequency error(ppm)
-30	27	0.014
-20	33	0.018
-10	25	0.013
0	32	0.017
10	25	0.013
20	28	0.015
30	29	0.015
40	27	0.014
50	34	0.018

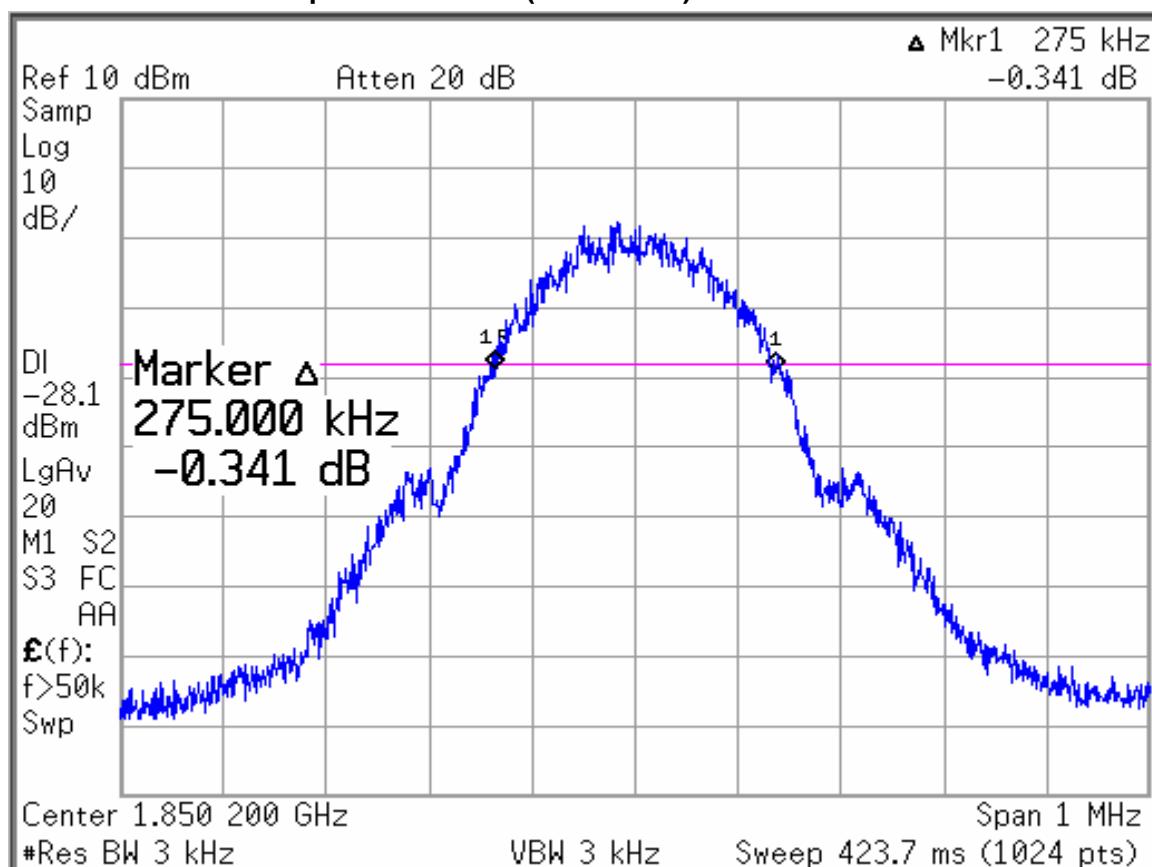
A.3 OCCUPIED BANDWIDTH

A.3.1 Occupied Bandwidth Results

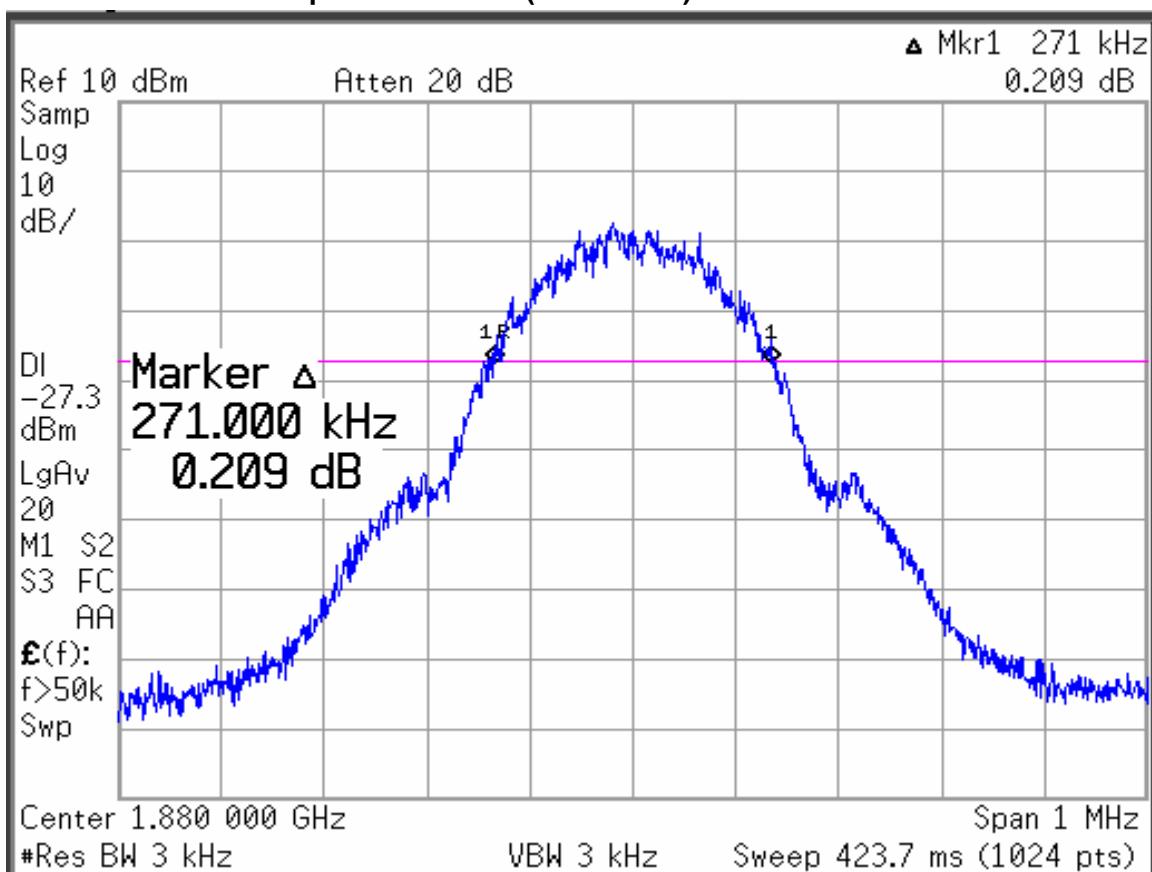
Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. Table below lists the measured -20dBc BW (99%). Spectrum analyzer plots are included on the following pages.

Frequency(MHz)	Occupied Bandwidth (-20dBc BW)(kHz)
1850.2	275
1880	271
1909.8	287

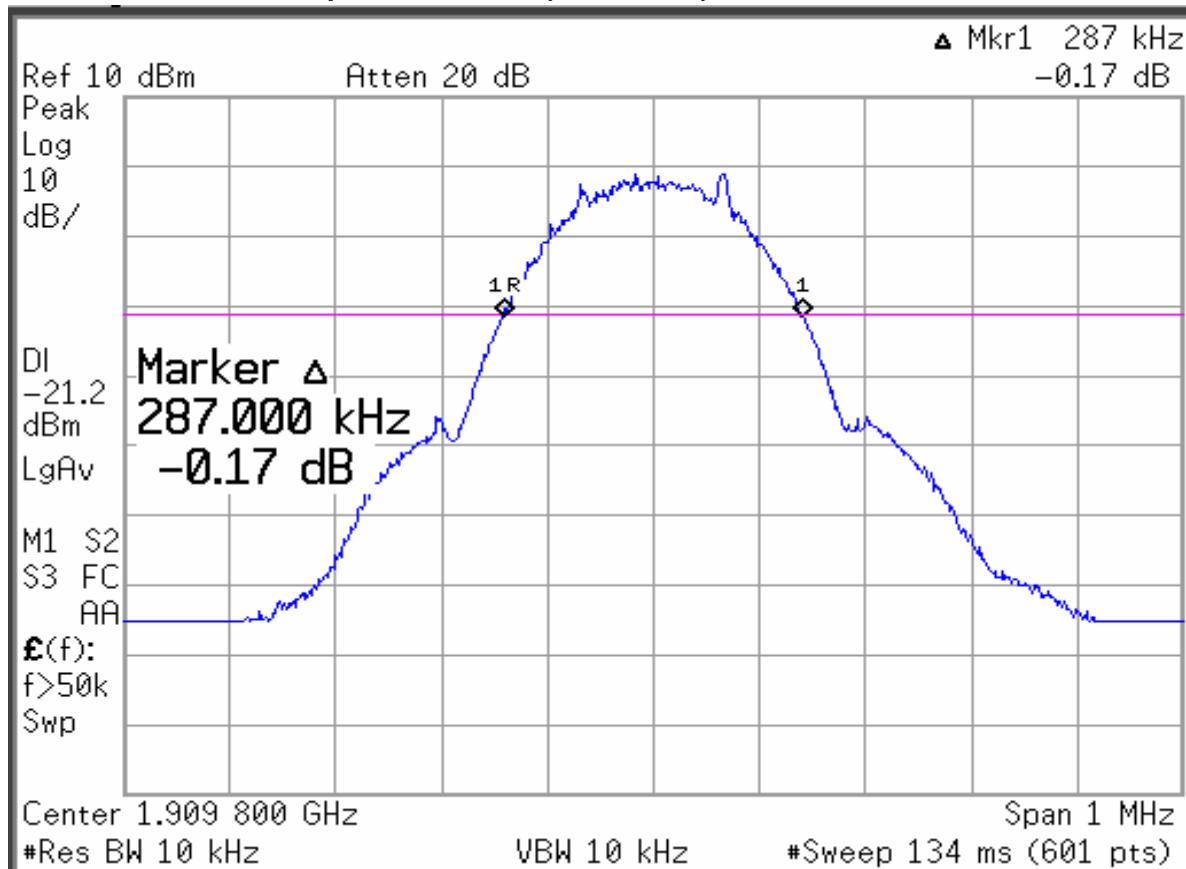
A.3.1.1 Channel 512-Occupied Bandwidth (-20dBc BW)



A.3.1.2 Channel 661-Occupied Bandwidth (-20dBc BW)



A.3.1.3 Channel 810-Occupied Bandwidth (-20dBc BW)



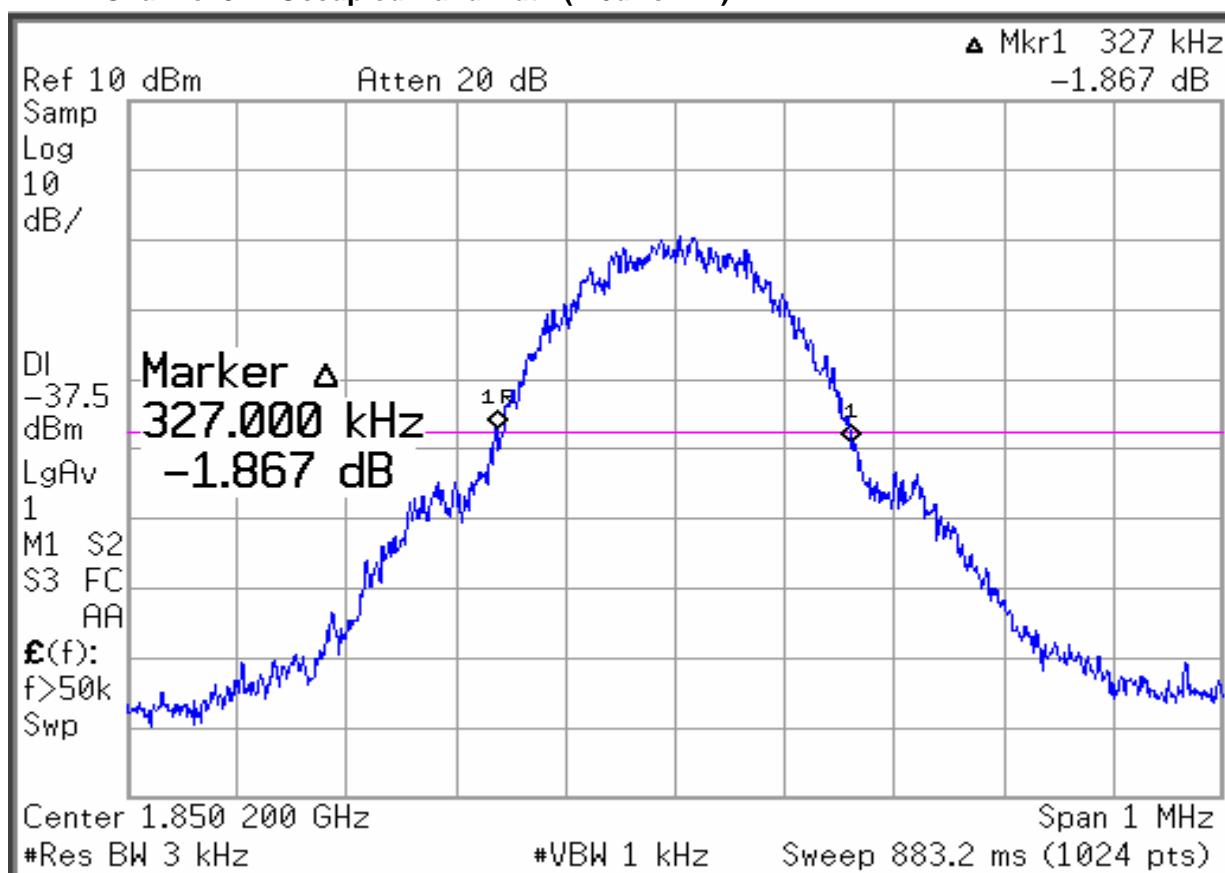
A.4 EMISSION BANDWIDTH

A.4.1 Emission Bandwidth Results

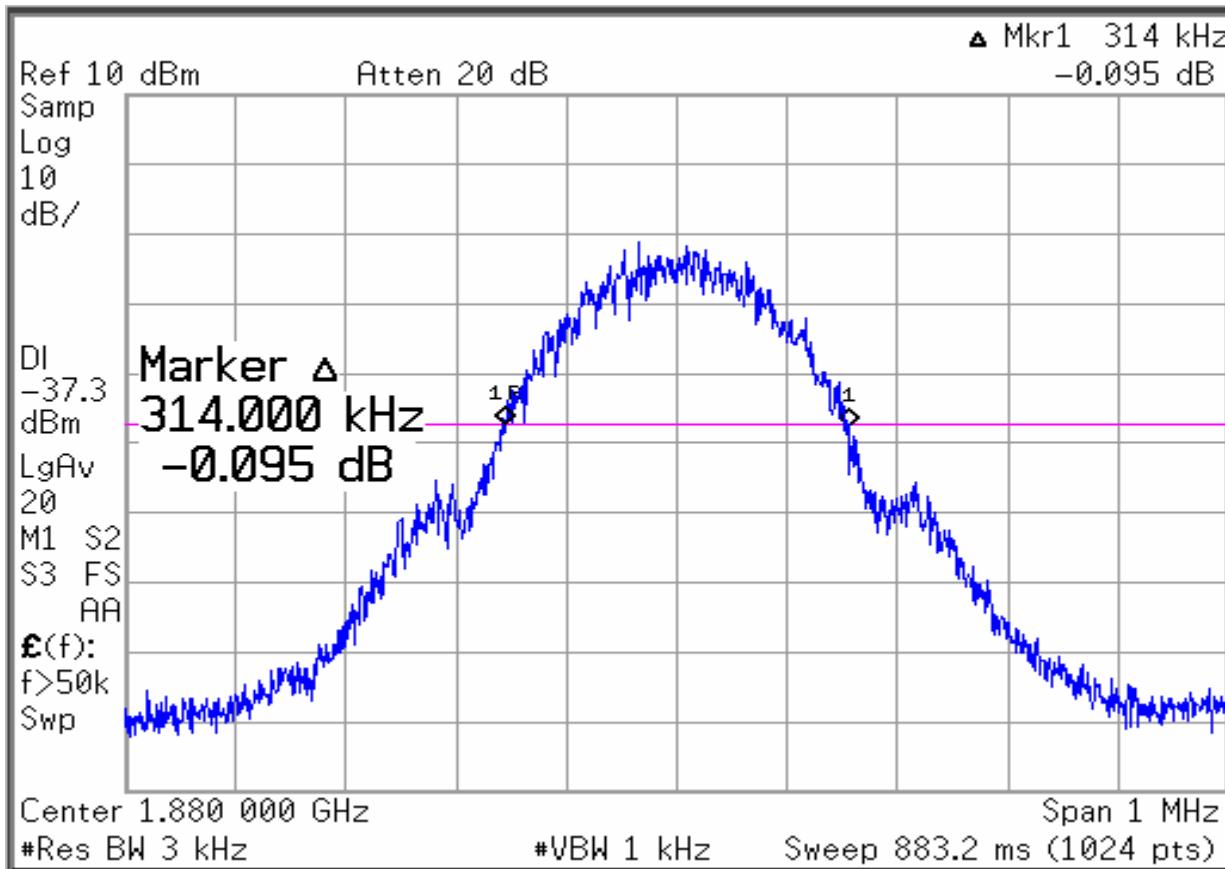
Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. Table below lists the measured -26dBc BW. Spectrum analyzer plots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

Frequency(MHz)	Occupied Bandwidth (-26dBc BW)(kHz)
1850.2	327
1880	314
1909.8	325

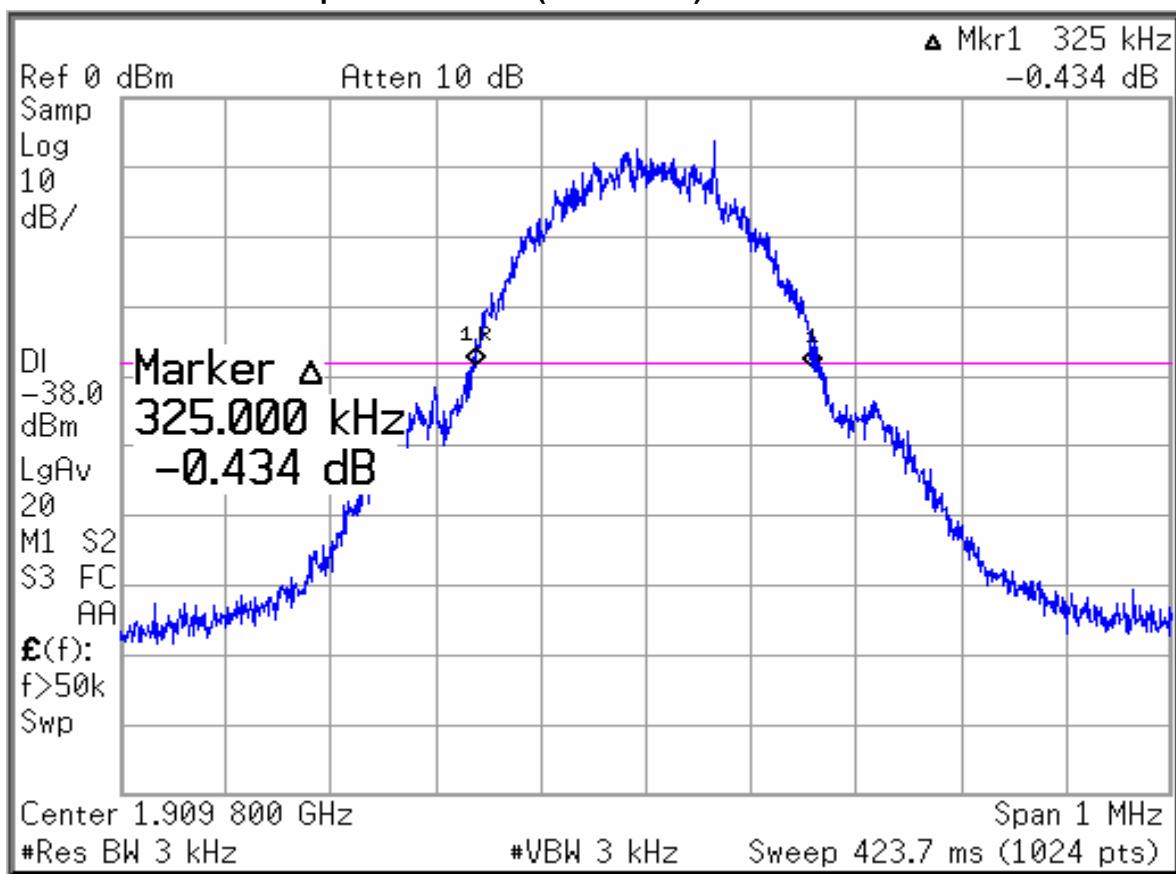
A.4.1.1 Channel 512-Occupied Bandwidth (-26dBc BW)



A.4.1.2 Channel 661-Occupied Bandwidth (-26dBc BW)



A.4.1.3 Channel 810-Occupied Bandwidth (-26dBc BW)



A.5 EMISSION LIMIT

A.5.1 Measurement Method

The site is constructed in accordance with ANSI C63.4 – 1992 requirements and is recognized by the FCC. 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 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 USPCS band.

A.5.2 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.5.3 Measurement Results

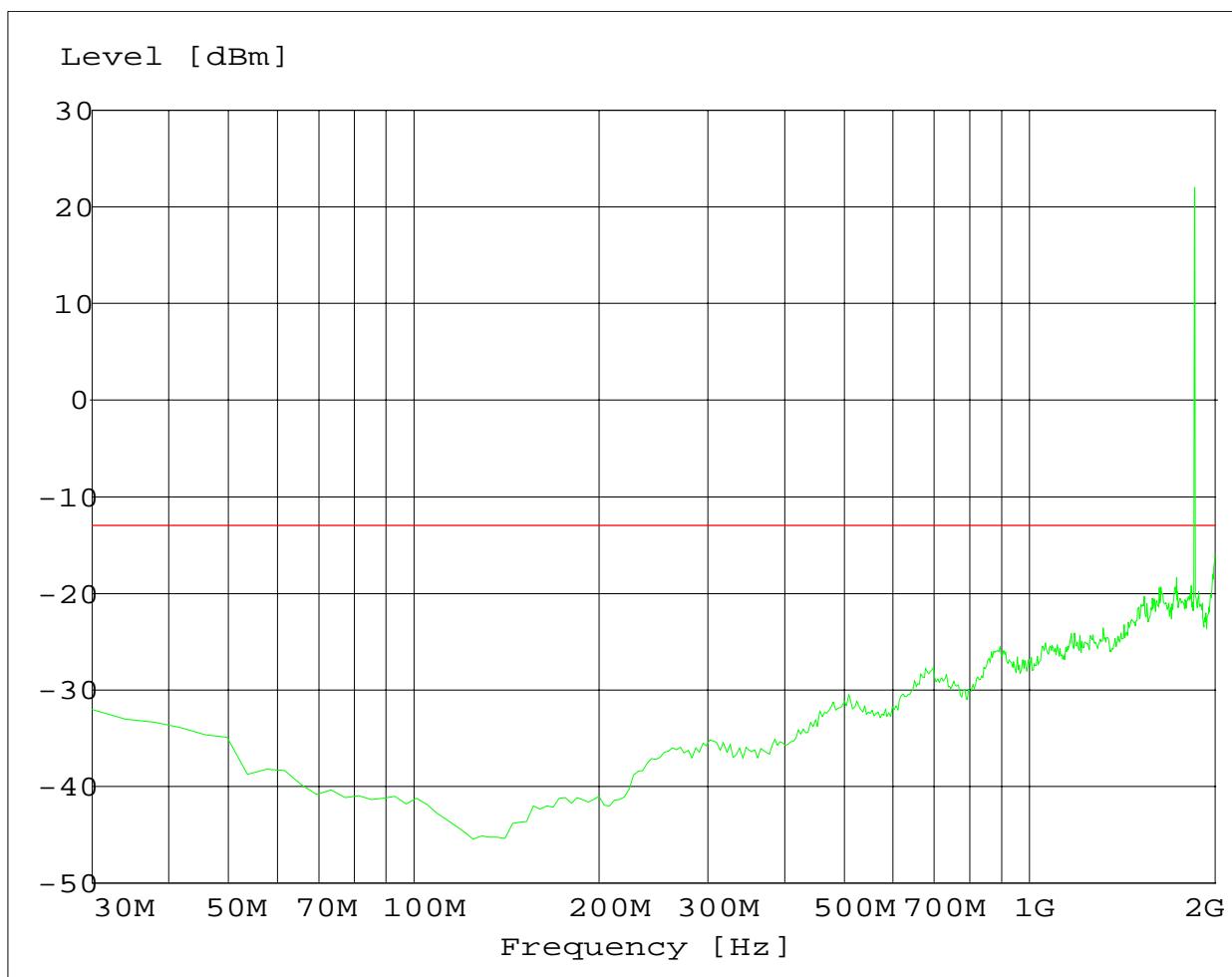
Radiated emissions measurements were made only at the upper, middle, and lower carrier

frequencies of the USPCS band (1850.2 MHz, 1880 MHz and 1909.8 MHz). 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 USPCS band 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. In the range between 18GHz and 20GHz very short cable connections to the antenna was used to minimize the noise level.

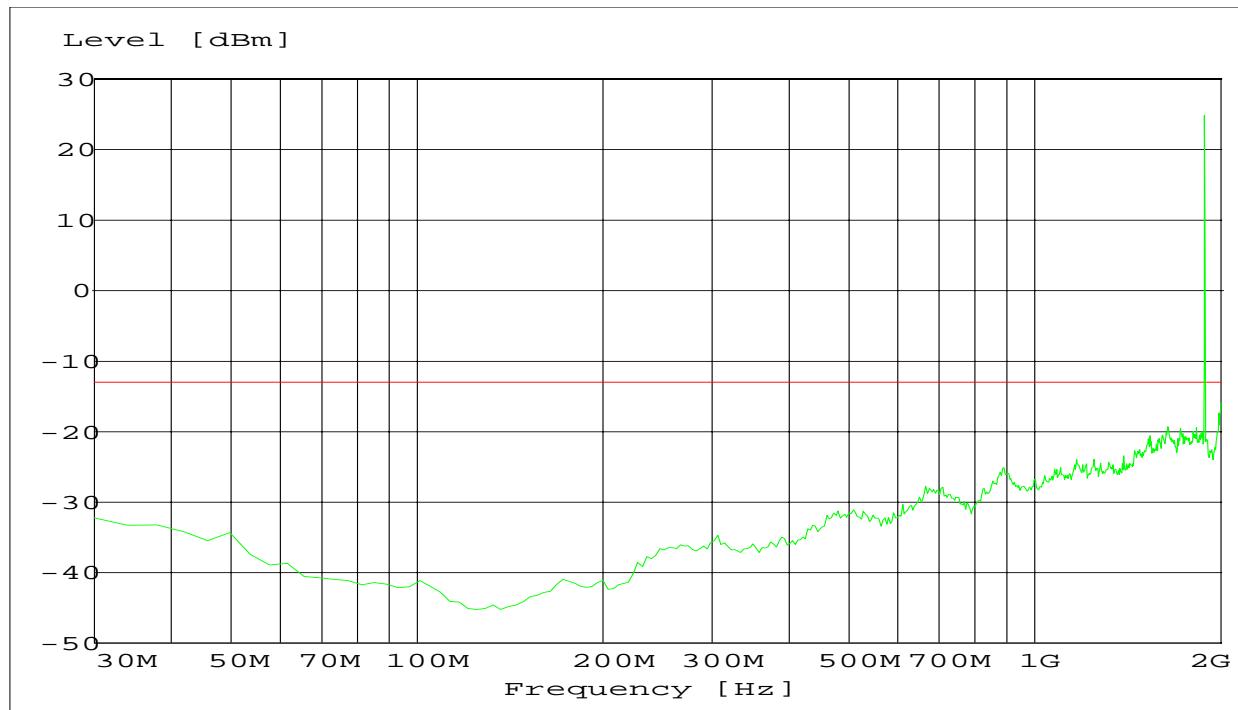
A.5.3.1 RADIATED SPURIOUS EMISSIONS-Channel 512: 30MHz – 2GHz

NOTE: peak above the limit line is the Carrier frequency @ ch-512



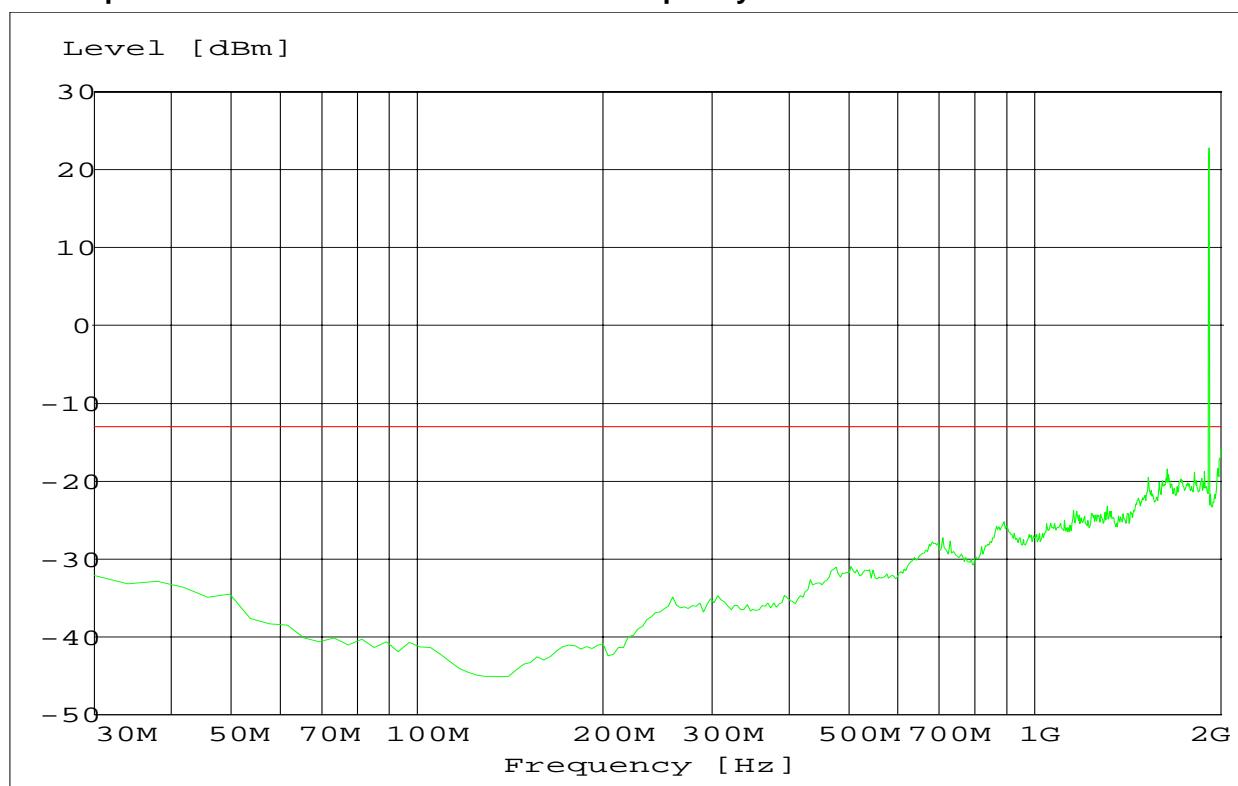
A.5.3.2 RADIATED SPURIOUS EMISSIONS-Channel 661: 30MHz – 2GHz

NOTE: peak above the limit line is the Carrier frequency @ ch-661

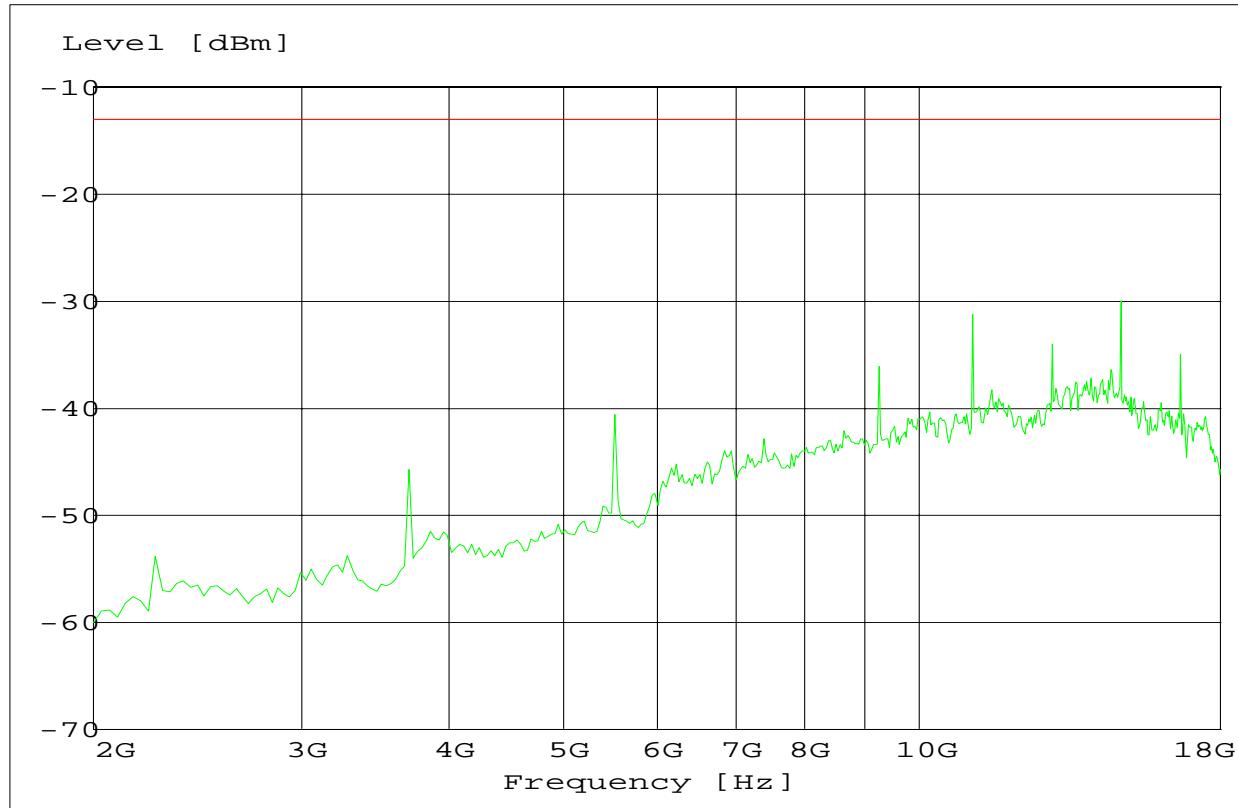


A.5.3.3 RADIATED SPURIOUS EMISSIONS-Channel 810: 30MHz – 2GHz

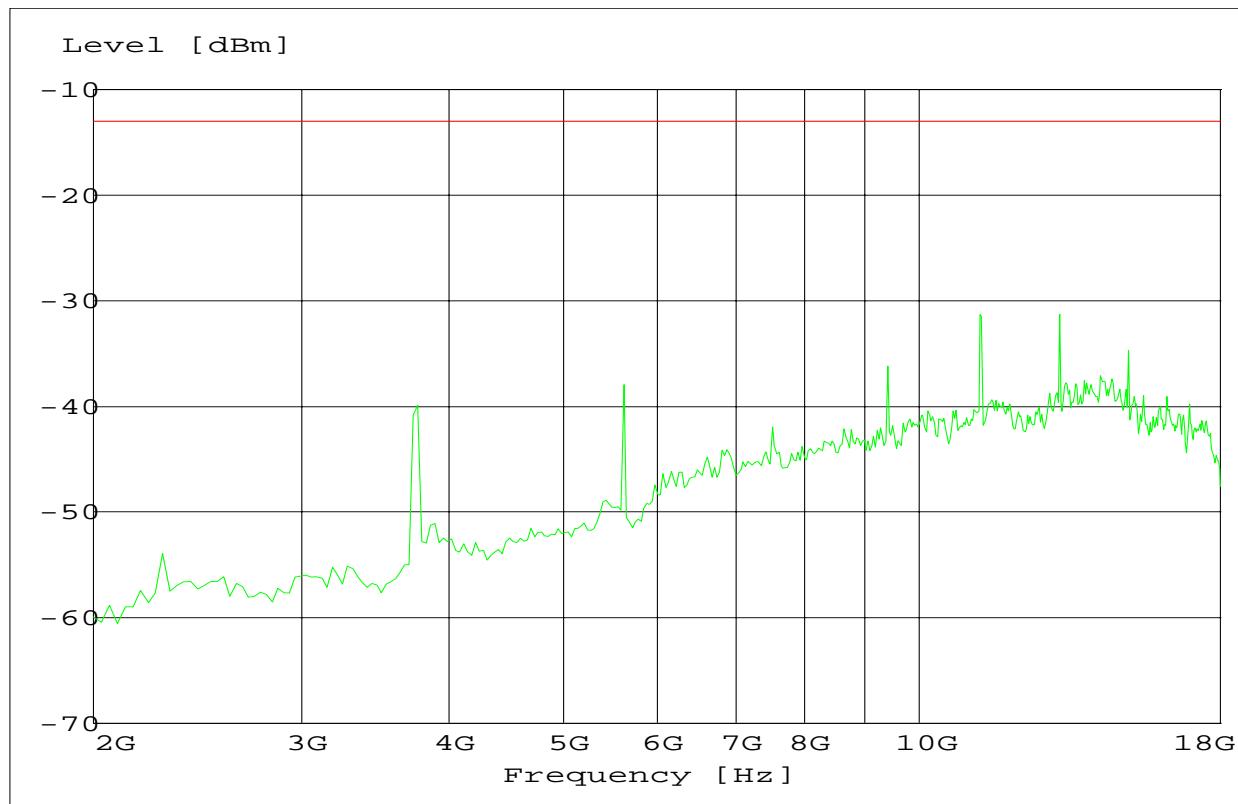
NOTE: peak above the limit line is the Carrier frequency @ ch-810



A.5.3.4 RADIATED SPURIOUS EMISSIONS-Channel 512: 2GHz – 18GHz



A5.3.5 RADIATED SPURIOUS EMISSIONS-Channel 661: 2GHz – 18GHz

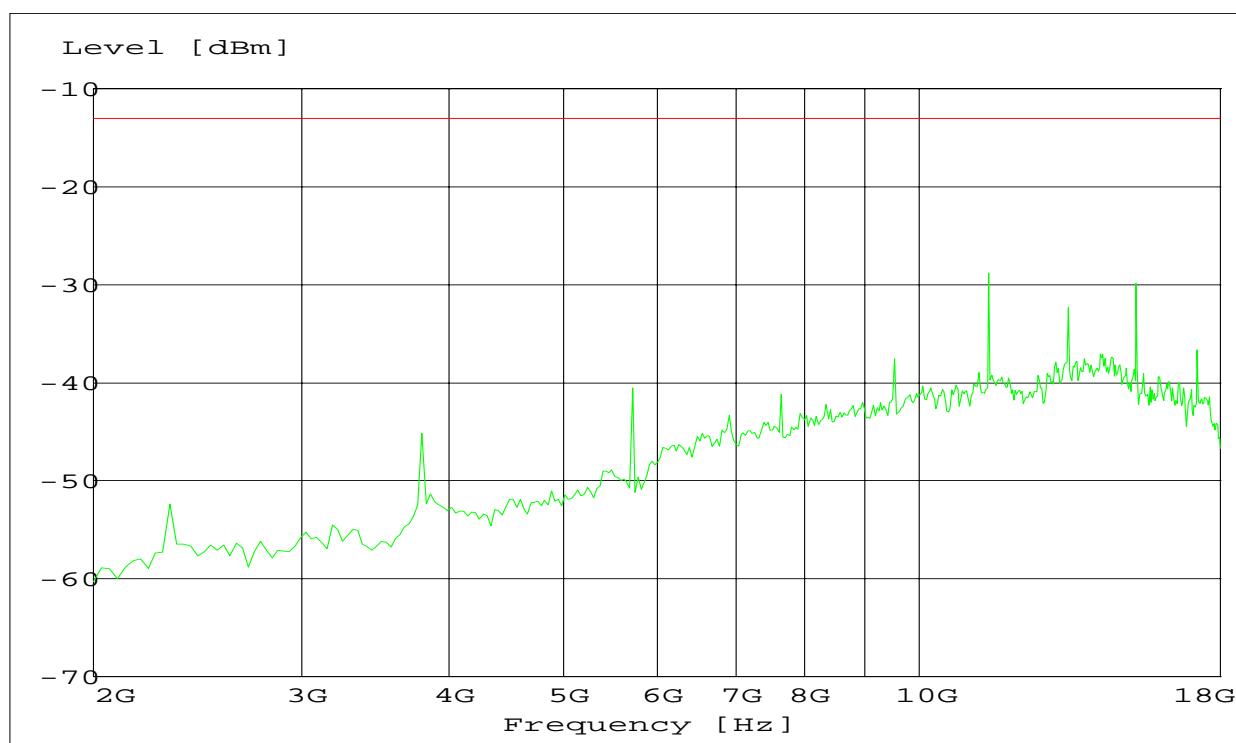


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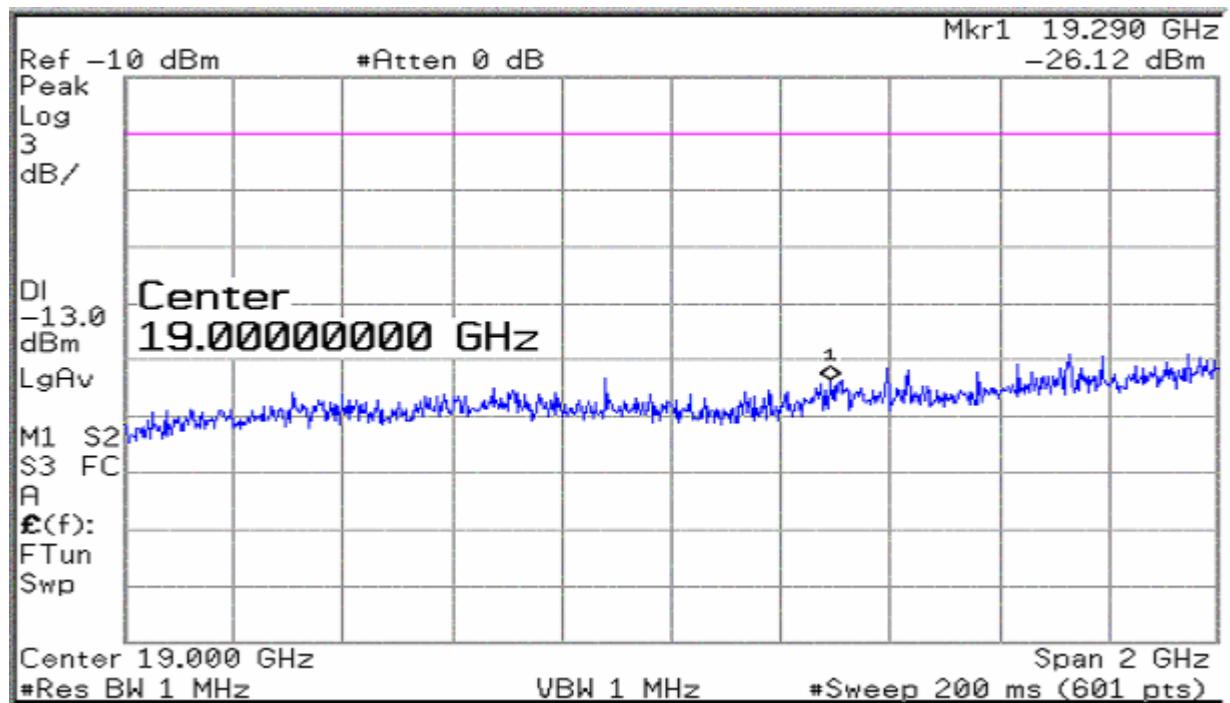
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A.5.3.6 RADIATED SPURIOUS EMISSIONS-Channel 810: 2GHz – 18GHz

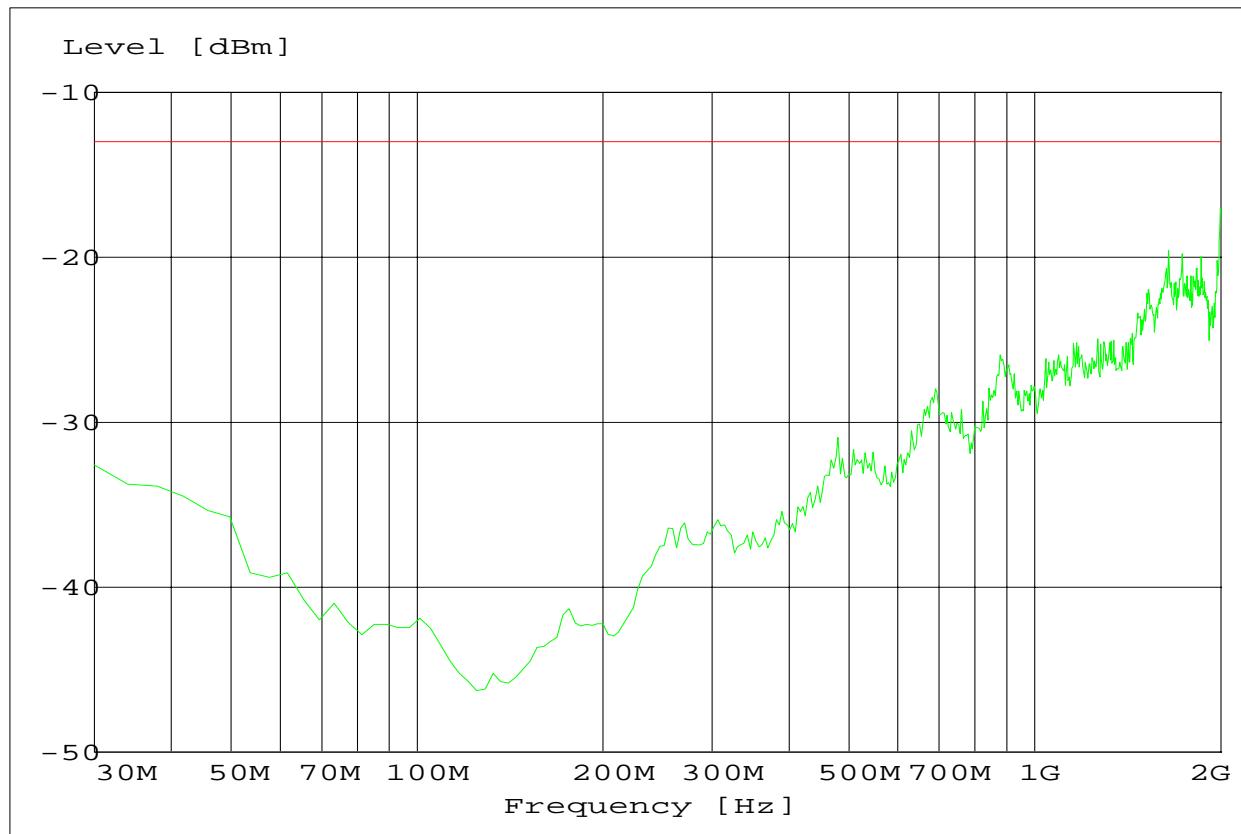


A.5.3.7 Radiated spurious emission (18GHz-20GHz)

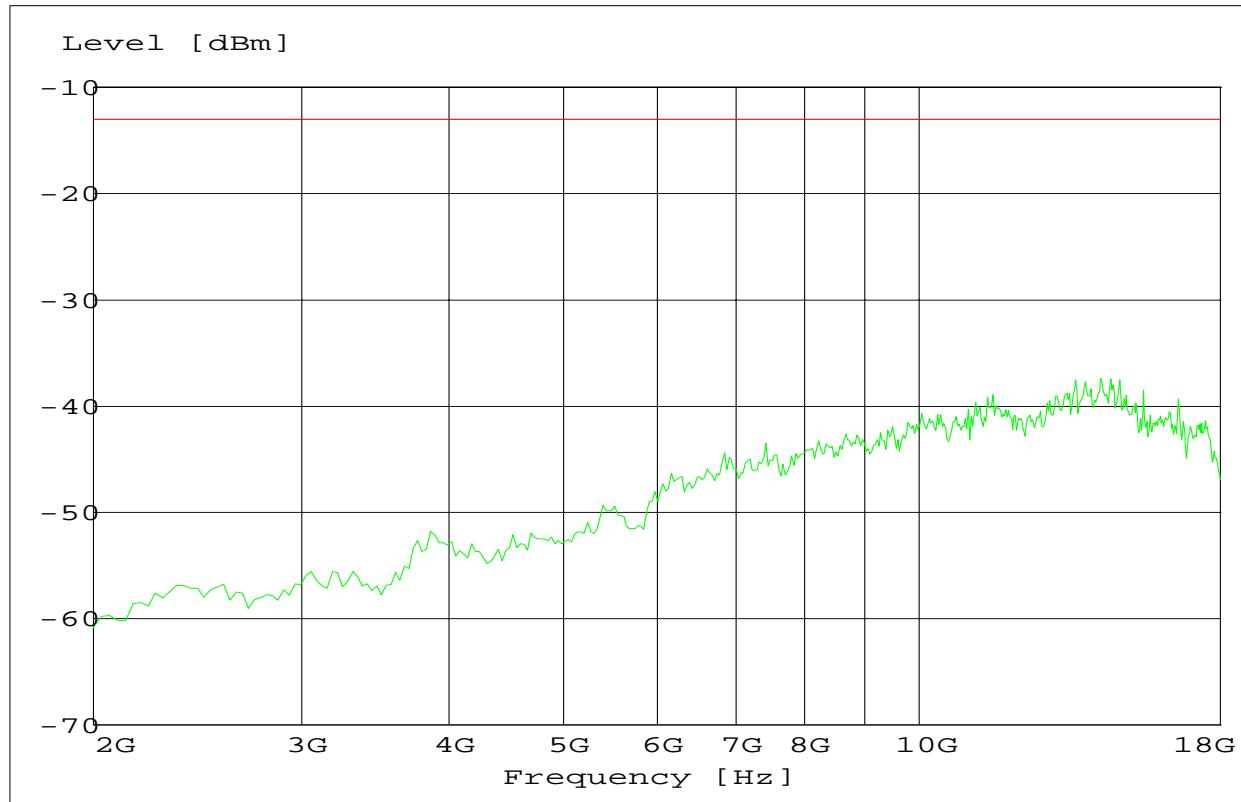
Note: This plot is valid for low, mid & high channels (worst-case plot). It is same as the floor noise.



A.5.3.8 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 30MHz – 2GHz



A.5.3.9 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 2GHz – 18GHz



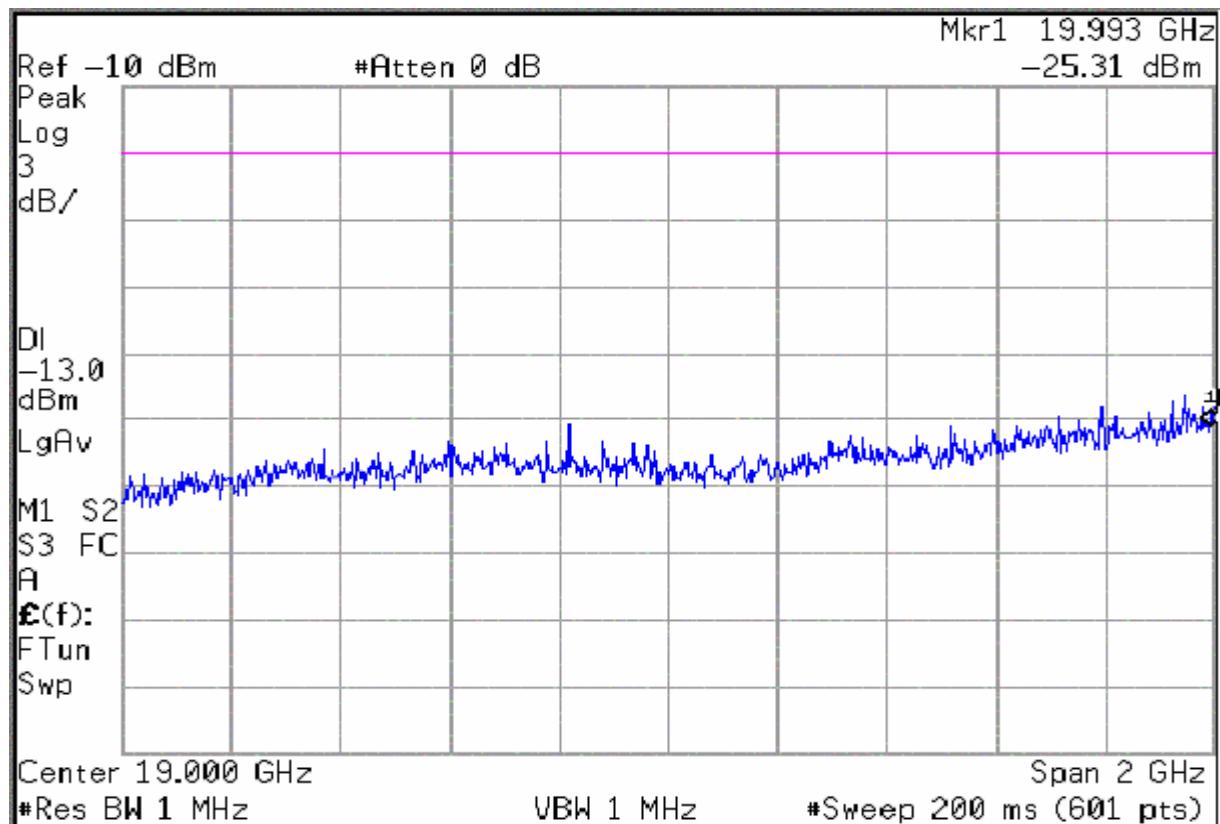
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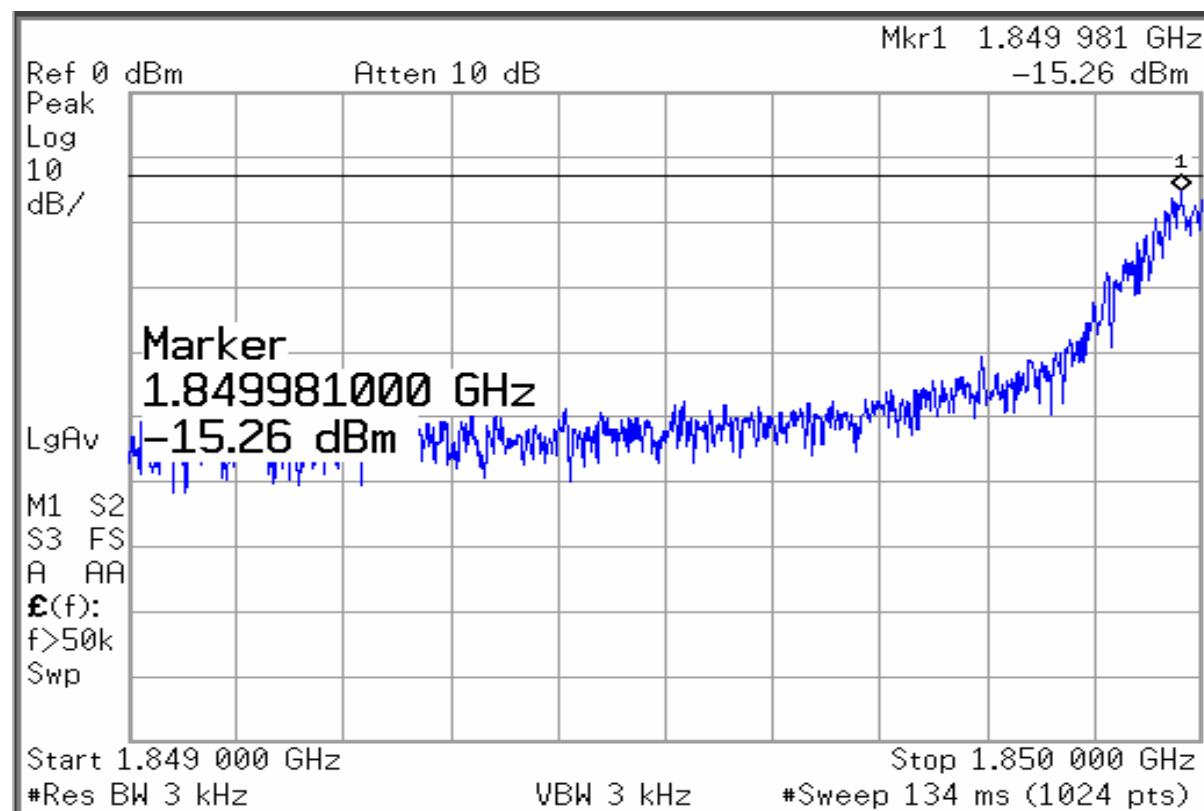
A.5.3.10 RADIATED SPURIOUS EMISSIONS-EUT in Idle Mode: 18GHz – 20GHz

Note: It is same as the floor noise.

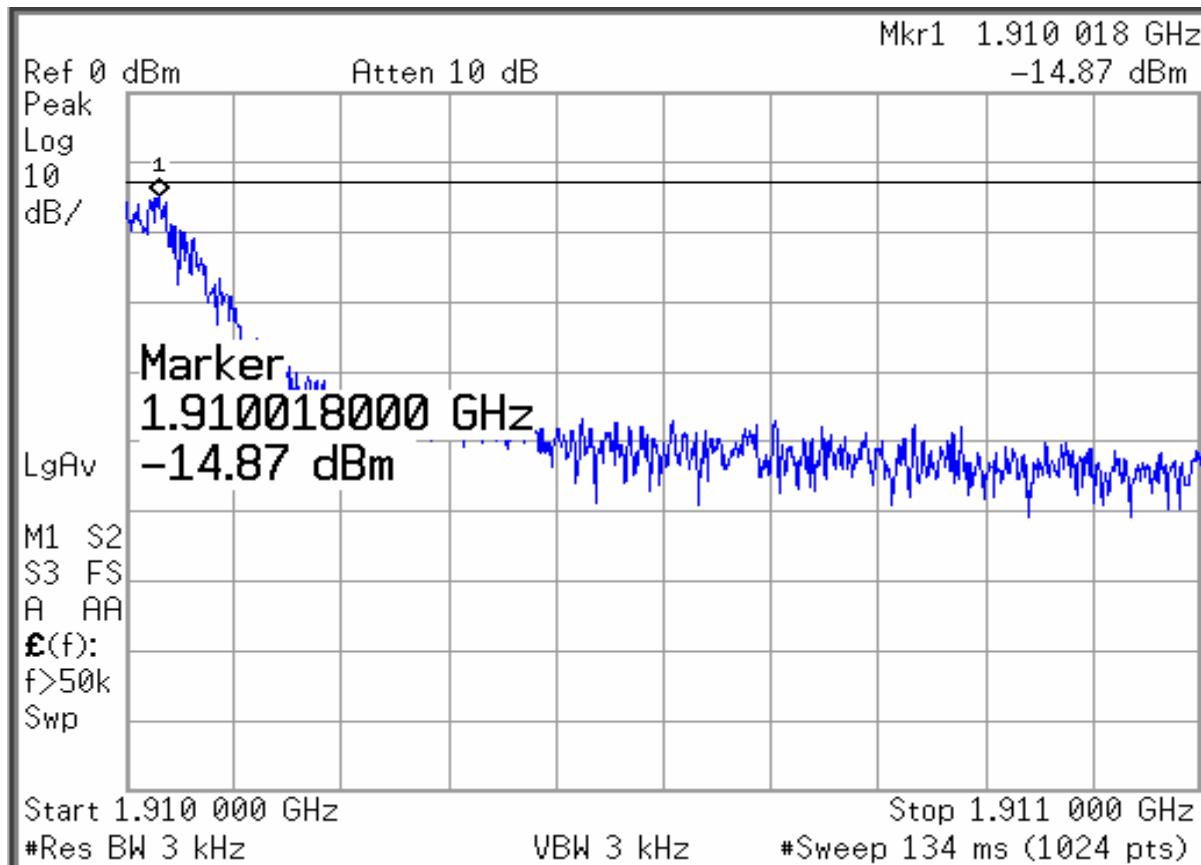


A.6 BAND EDGE COMPLIANCE

A.6.1 LOW BAND EDGE BLOCK-A (PCS-1900)-Channel 512



A.6.2 HIGH BAND EDGE BLOCK-C (PCS-1900) –Channel 810



A.7 CONDUCTED SPURIOUS EMISSION

A.7.1 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. For the equipment under test, this equates to a frequency range of 30 MHz to 19.1 GHz, data taken from 30 MHz to 20 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.

USPCS Transmitter

Channel	Frequency (MHz)
512	1850.2
661	1880.0
810	1909.8

A.7.2 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.

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A.7.3 Measurement result

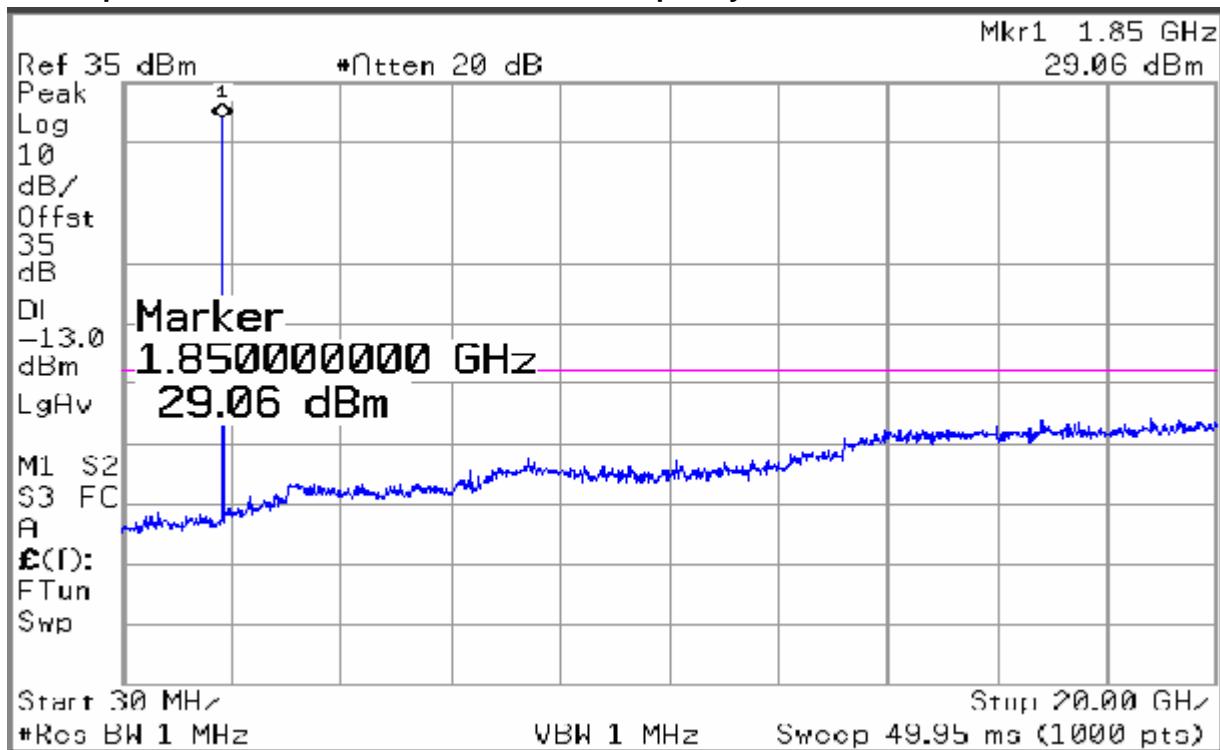
Harmonic	Tx ch. 512 Freq. (MHz)	Level (dBm)	Tx ch. 661 Freq. (MHz)	Level (dBm)	Tx ch. 810 Freq. (MHz)	Level (dBm)
2	3700.4	nf	3760	nf	3819.6	nf
3	5550.6	nf	5640	nf	5729.4	nf
4	7400.8	nf	7520	nf	7639.2	nf
5	9251	nf	9400	nf	9549	nf
6	11101.2	nf	11280	nf	11458.8	nf
7	12951.4	nf	13160	nf	13368.6	nf
8	14801.6	nf	15040	nf	15278.4	nf
9	16651.8	nf	16920	nf	17188.2	nf
10	18502	nf	18800	nf	19098	nf

nf: Noise floor

A.7.3.1 Channel 512: 30MHz – 20GHz

Spurious emission limit –13dBm.

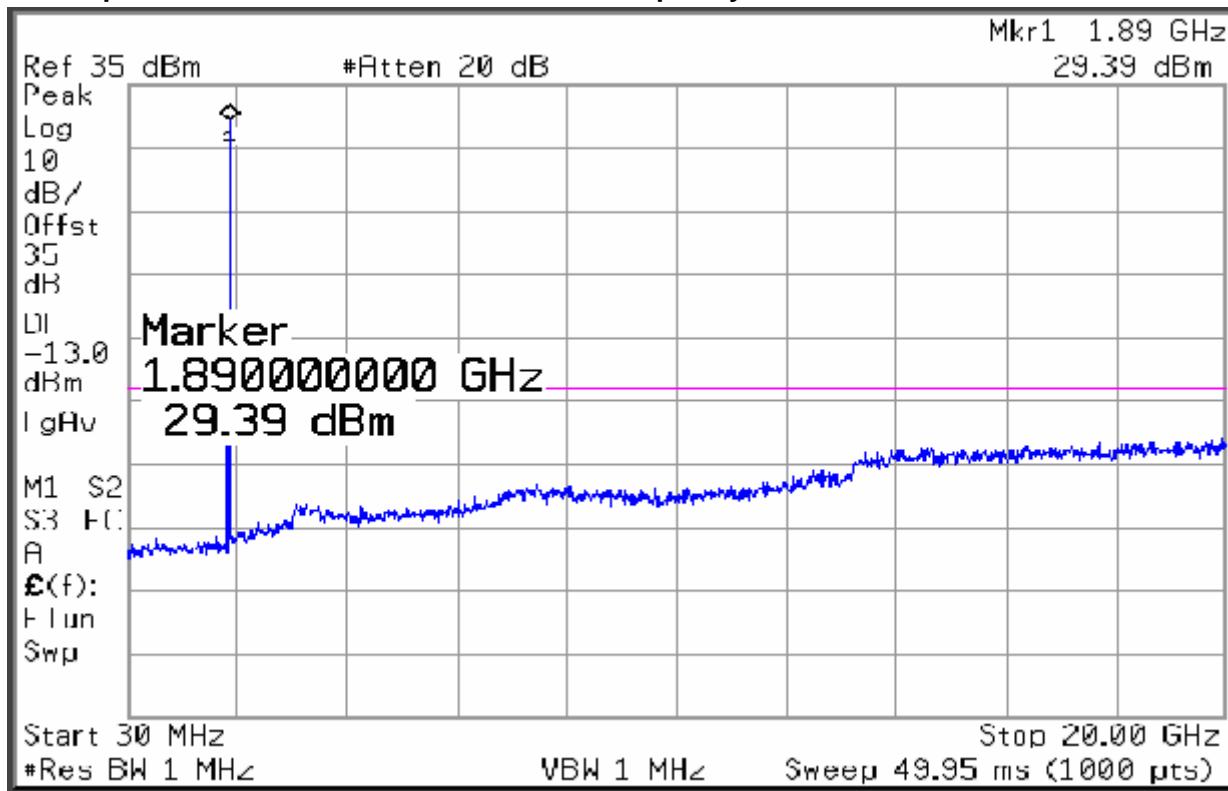
NOTE: peak above the limit line is the carrier frequency.



A.7.3.2 Channel 661: 30MHz – 20GHz

Spurious emission limit –13dBm

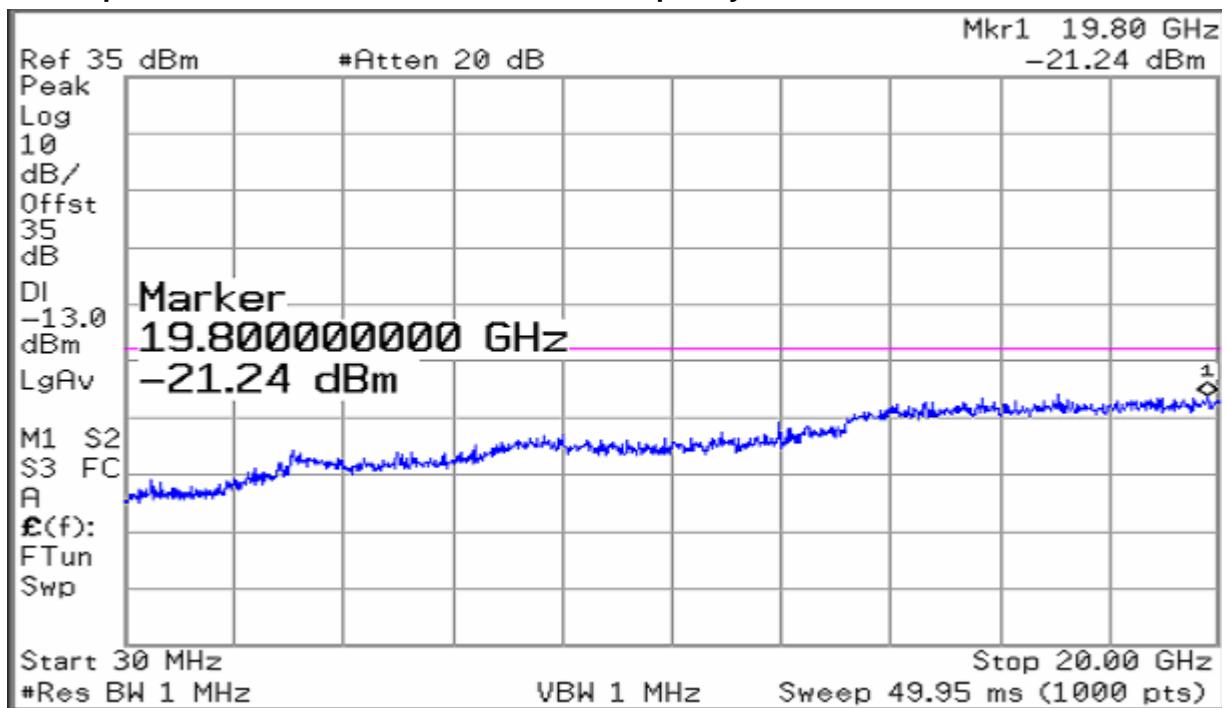
NOTE: peak above the limit line is the carrier frequency.



A.7.3.3 Channel 810: 30MHz – 20GHz

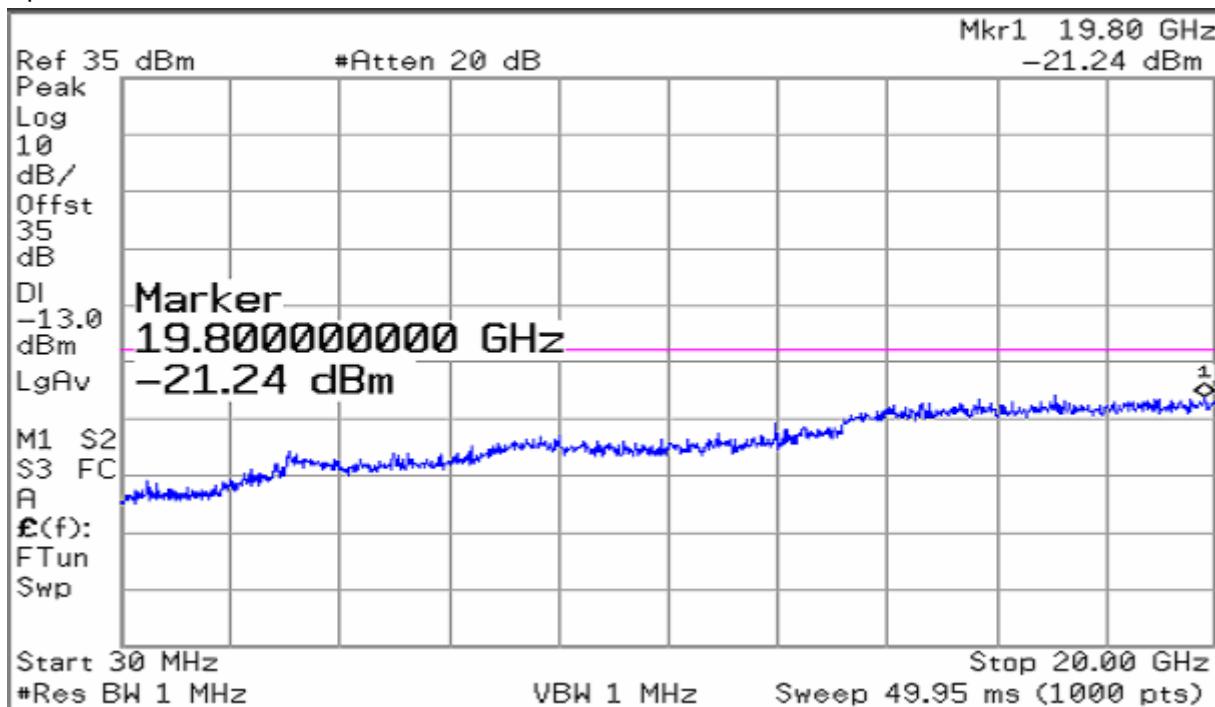
Spurious emission limit –13dBm.

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



A.7.3.4 Idle mode: 30MHz – 20GHz

Spurious emission limit –13dBm.



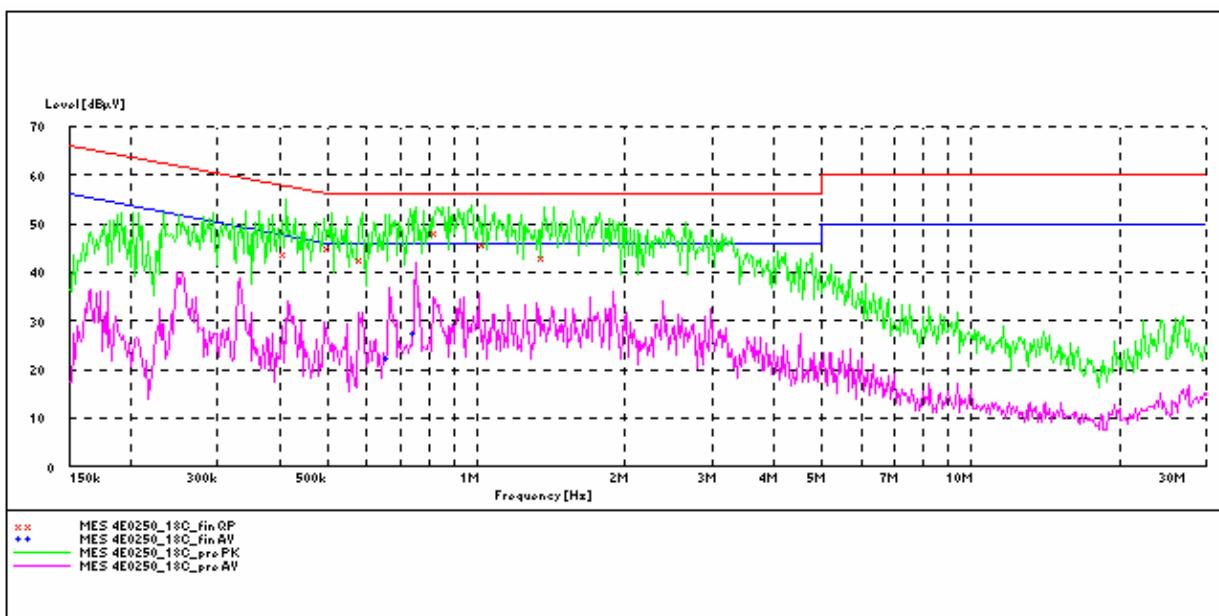
A.8 CONDUCTED EMISSION

A.8.1 Limit

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi -Peak	Average
0.15 – 0.	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30	60	50

* Decreases with logarithm of the frequency

A.8.2 Measurement result



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MEASUREMENT RESULT: "4E0250_1C_fin QP"

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.412647	43.90	10.0	58	13.7	L1	FLO
0.507636	45.20	10.0	56	10.8	L1	GND
0.585925	42.90	10.0	56	13.1	L1	FLO
0.831966	48.40	10.0	56	7.6	L1	FLO
1.039922	45.90	10.0	56	10.1	L1	FLO
1.374419	43.30	10.1	56	12.7	N	GND

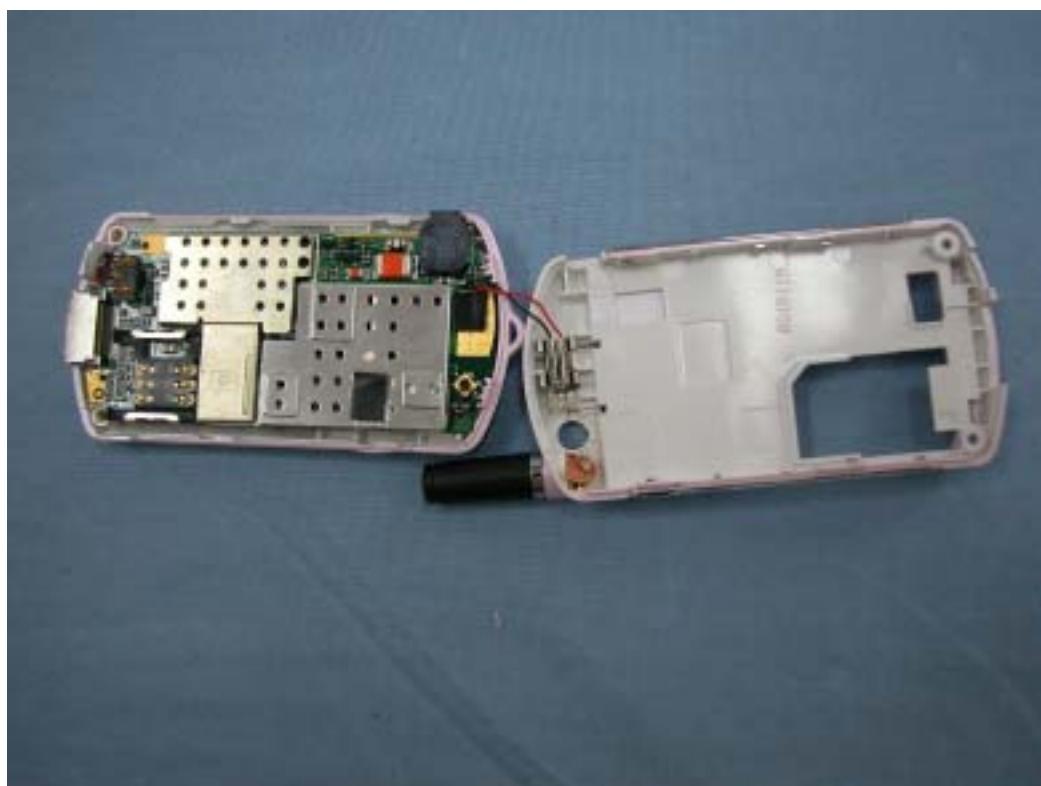
MEASUREMENT RESULT: "4E0250_1C_fin AV"

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Line	PE
0.665596	22.50	10.0	46	23.5	L1	GND
0.756100	27.50	10.0	46	18.5	L1	GND

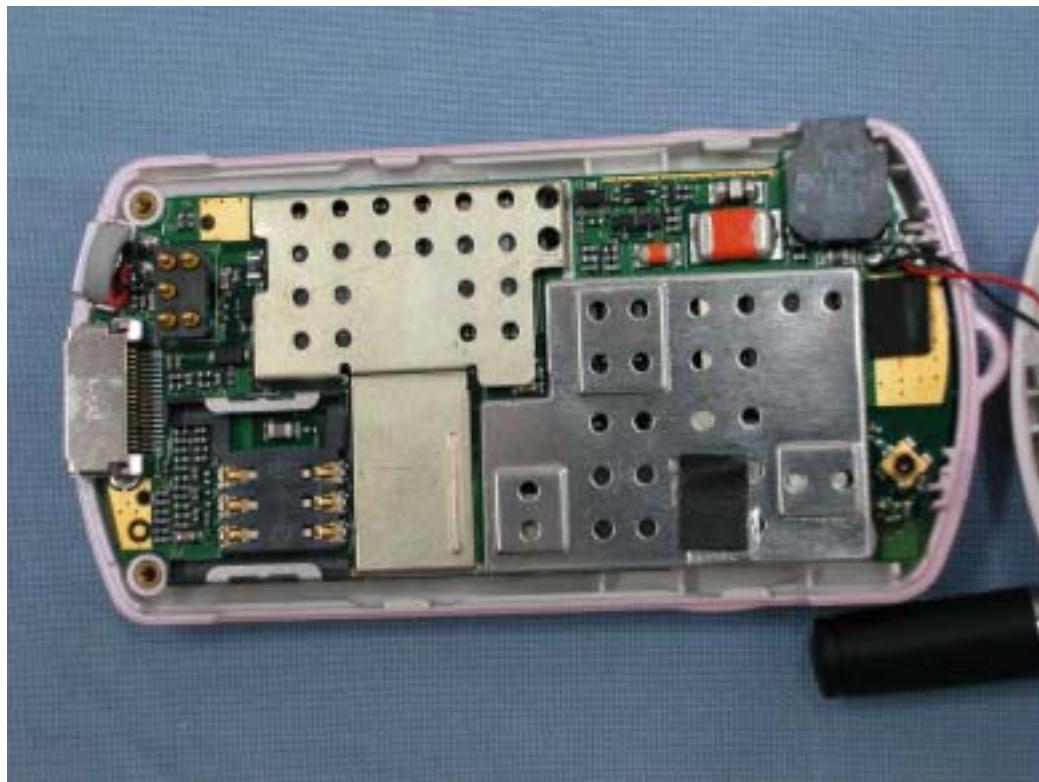
ANNEX B PHOTOGRAPH OF EUT



Mobile Phone



Mobile station

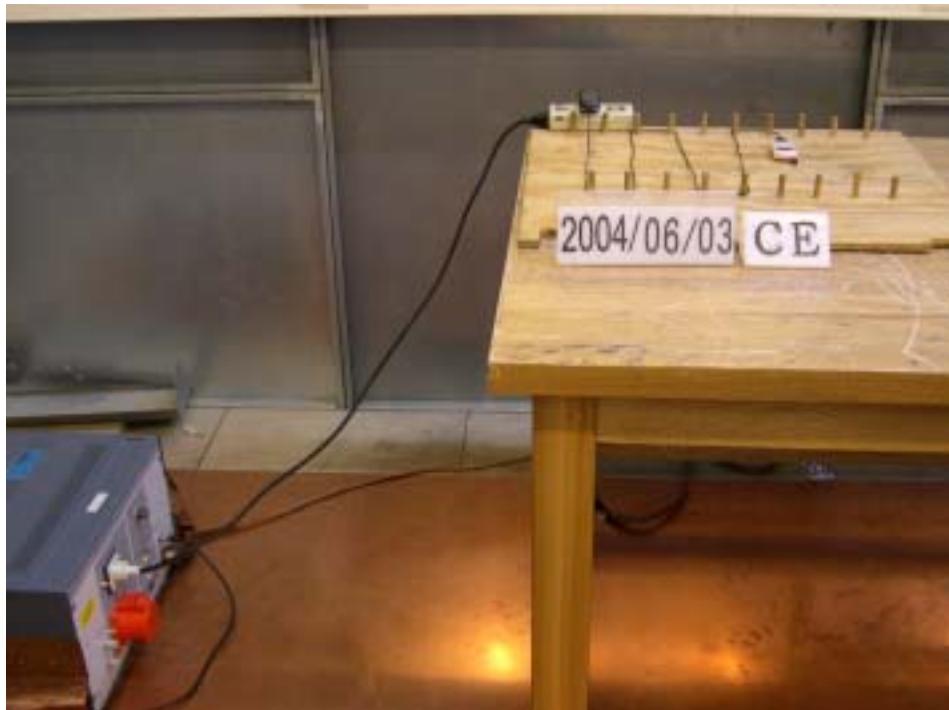


Mobile station



Mobile station

ANNEX C TEST LAYOUT



Pic1 Conducted Emission



Pic2 Radiated Spurious Emission

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