



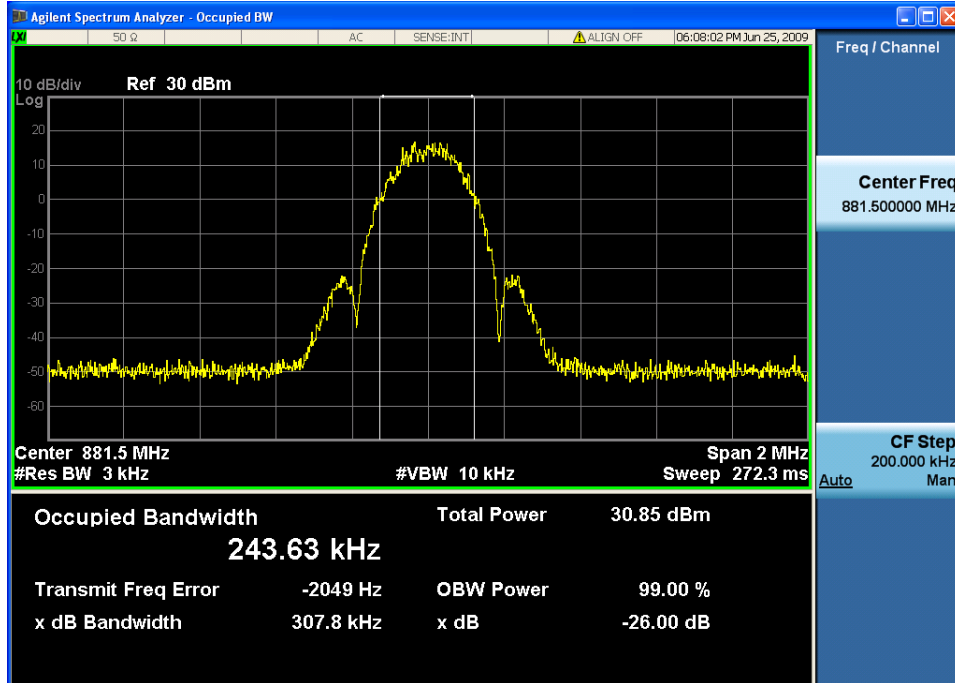
SGS-CSTC Standards Technical Services Co., Ltd.

Report No.: GLEMO09060172101

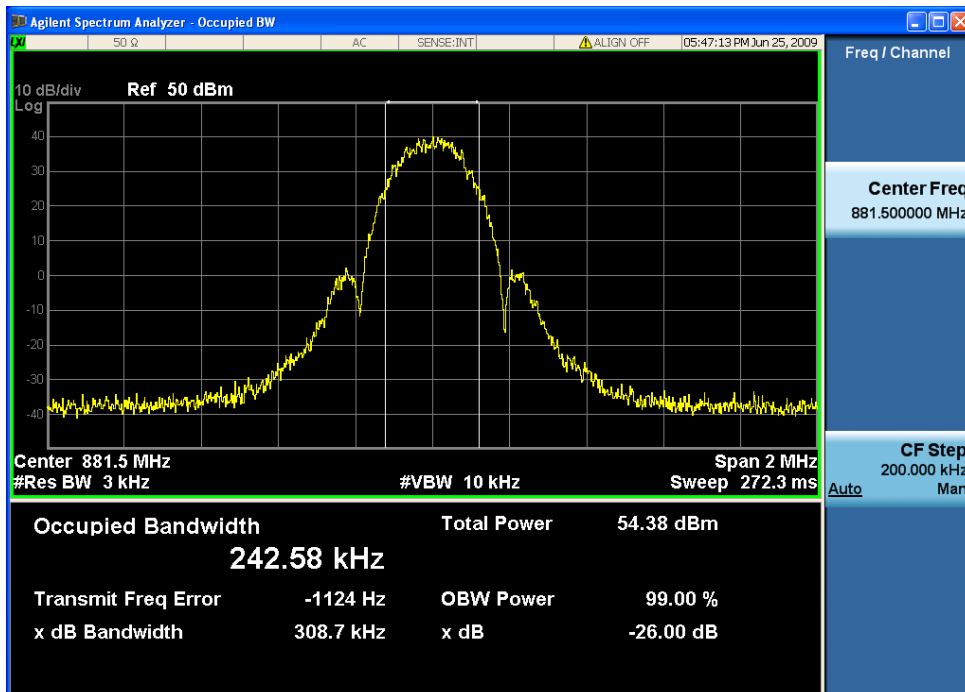
Page: 76 of 89

FCC ID: PX8TS-81-12XXXXXX

Cellular—EDGE down link(middle frequency)-- Input

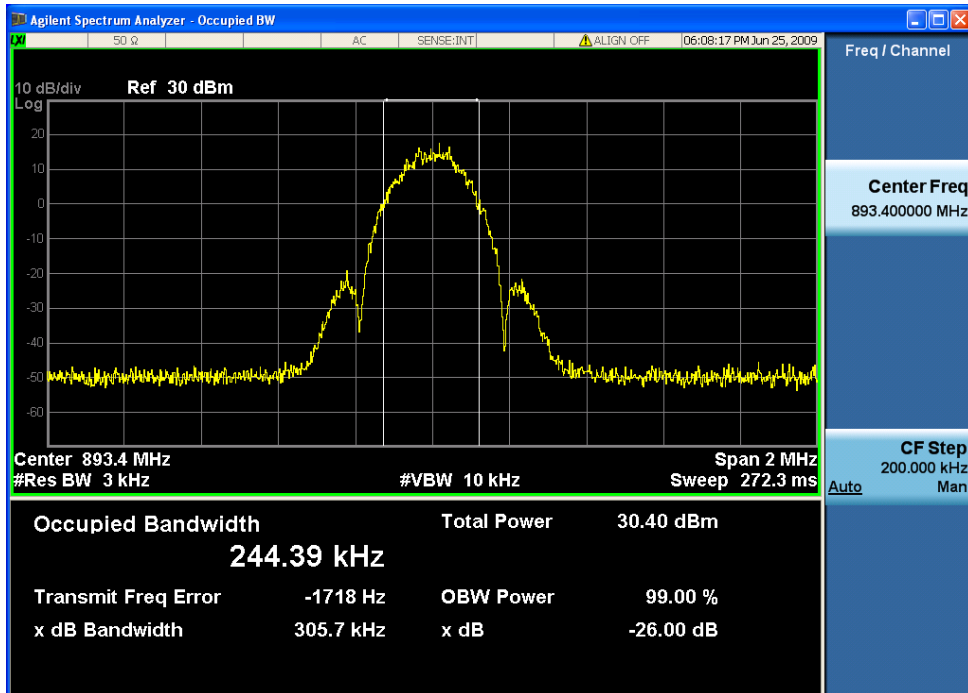


Cellular—EDGE down link(middle frequency)-- Output

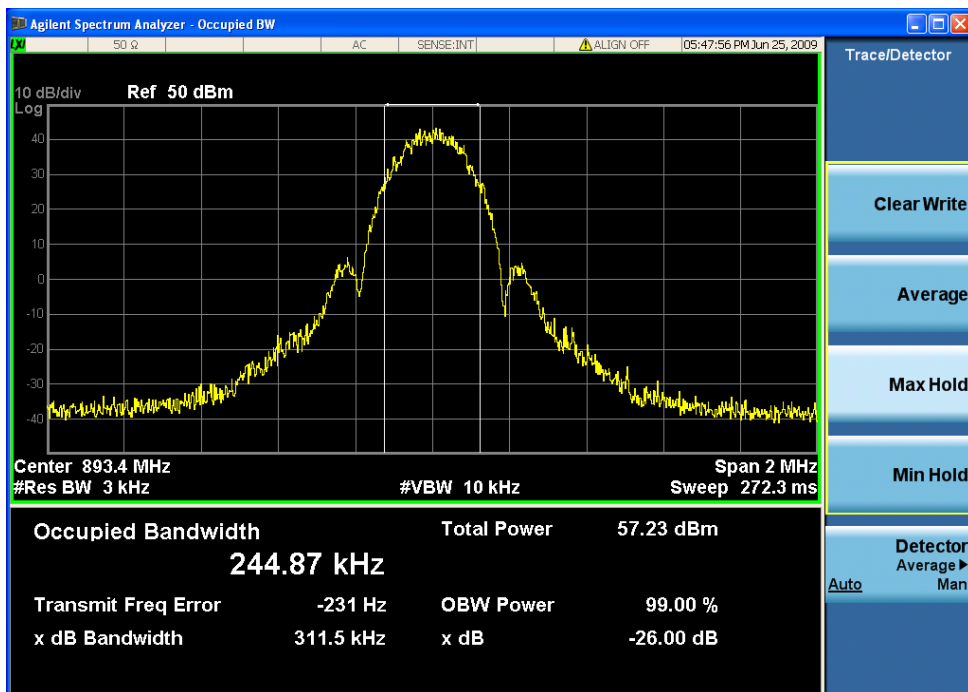




Cellular—EDGE down link(highest frequency)—Input



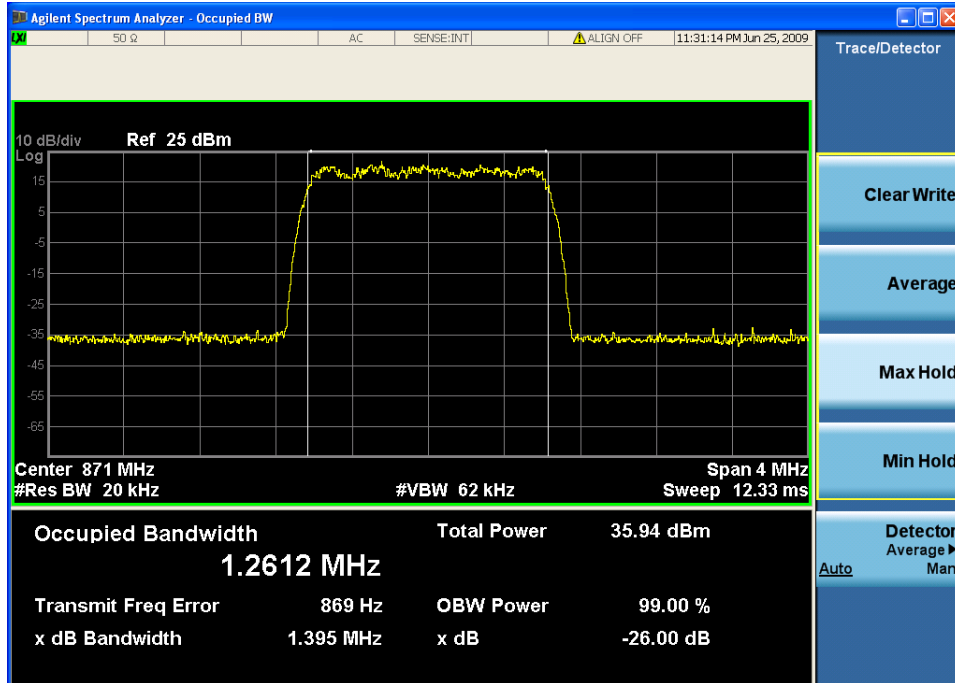
Cellular—EDGE down link(highest frequency)--Output



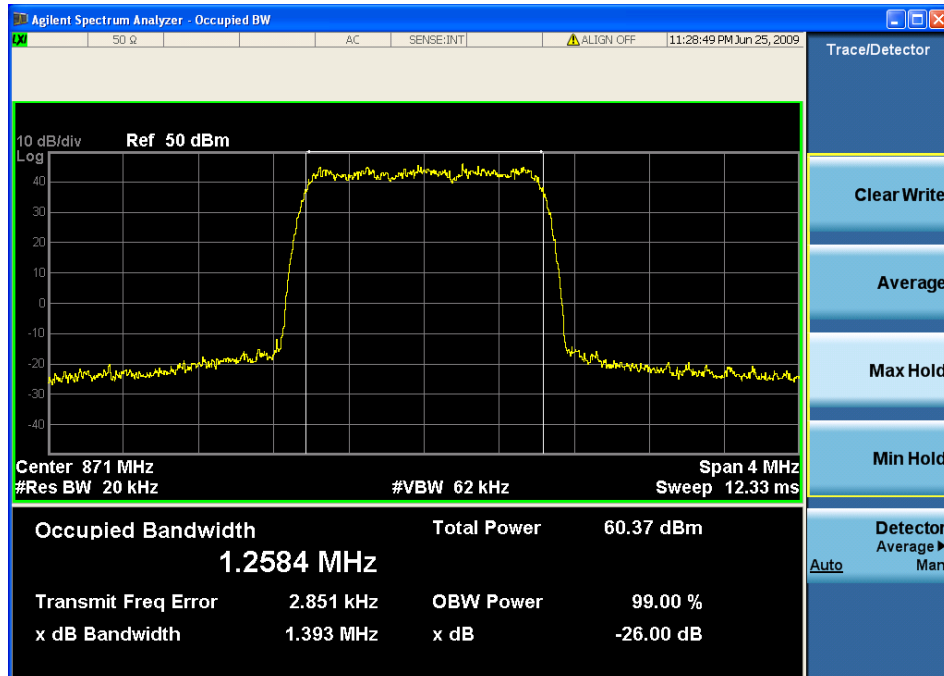


Cellular Band

Cellular—CDMA down link(lowest frequency) -- Input

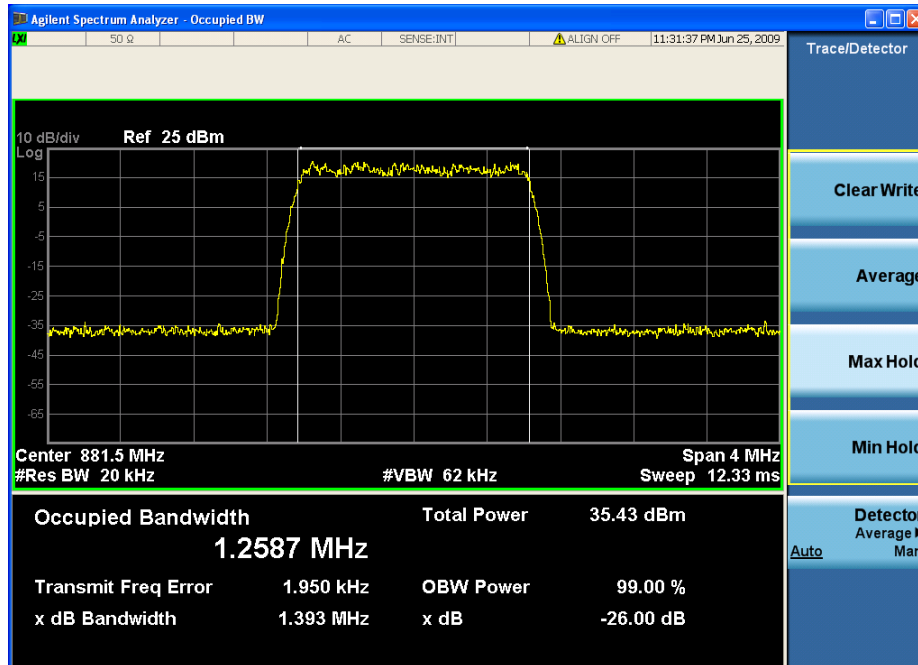


Cellular—CDMA down link(lowest frequency) -- Output

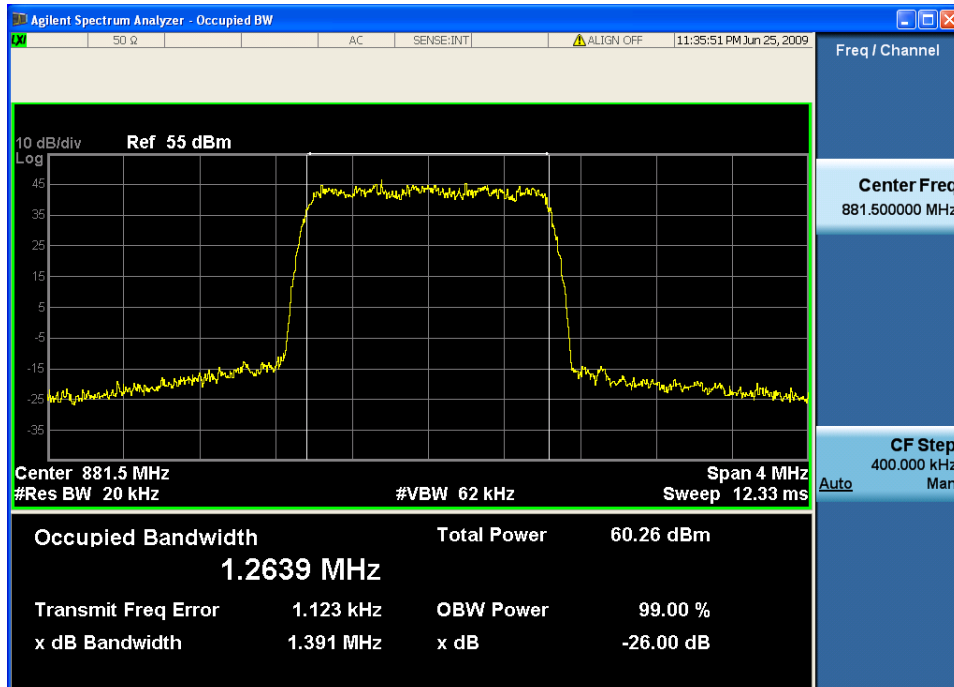




Cellular—CDMA down link(middle frequency)-- Input

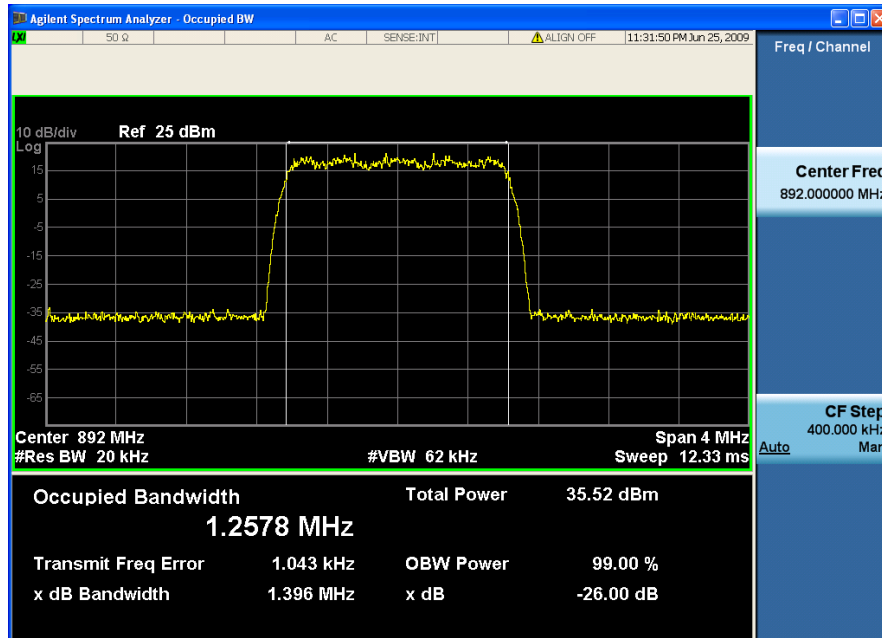


Cellular—CDMA down link(middle frequency)-- Output

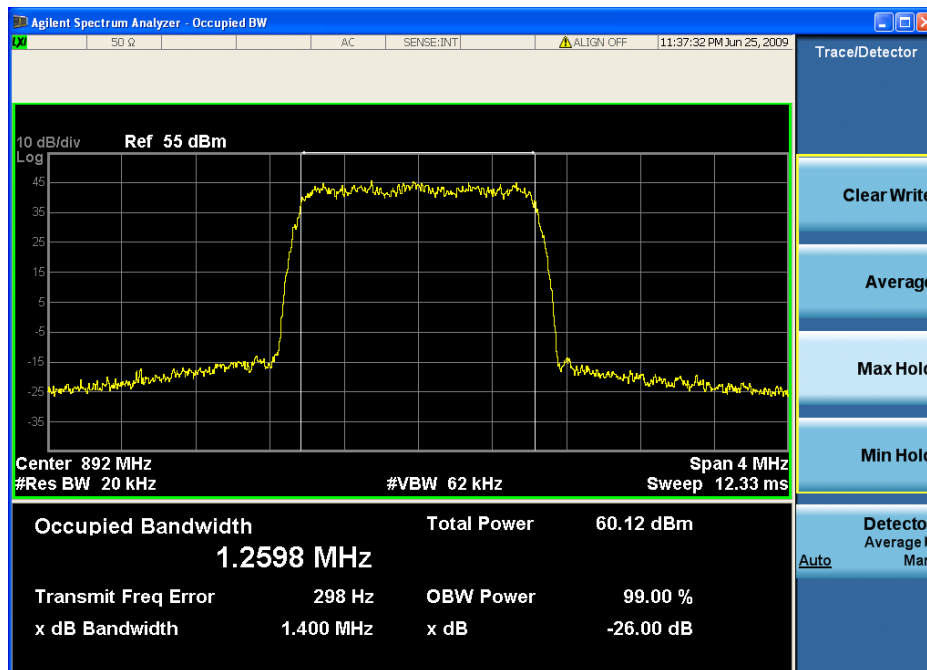




Cellular—CDMA down link(highest frequency)—Input



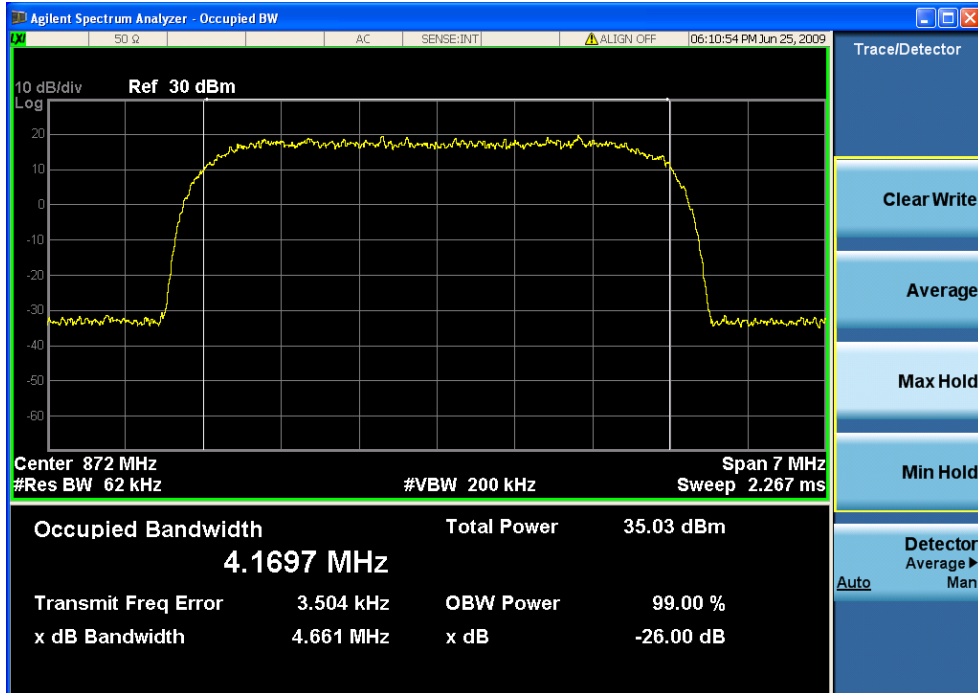
Cellular—CDMA down link(highest frequency)--Output



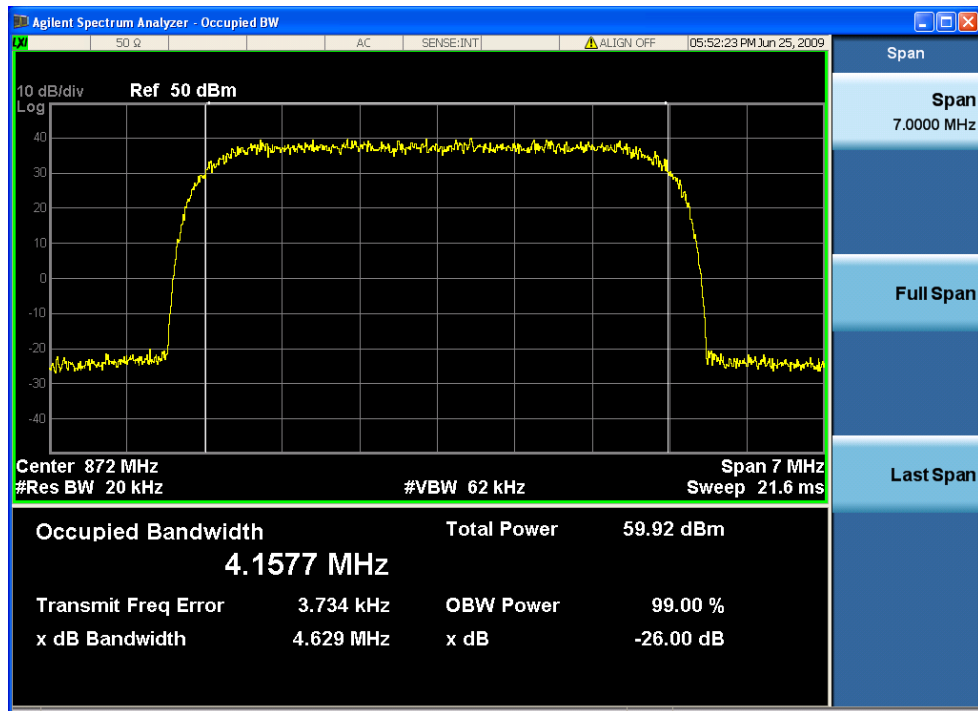


Cellular Band

Cellular—WCDMA down link(lowest frequency) -- Input

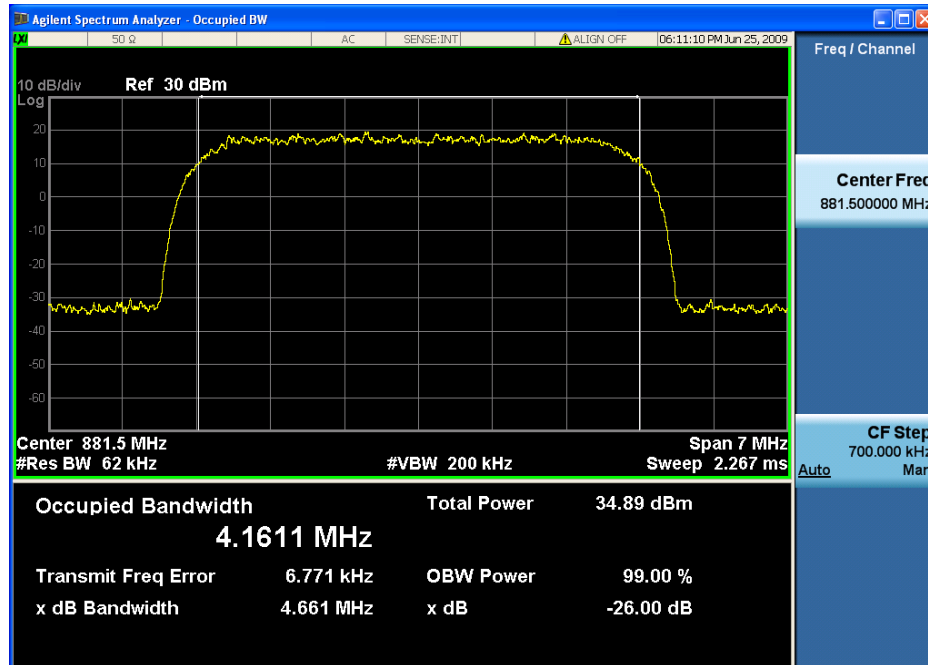


Cellular—WCDMA down link(lowest frequency) -- Output

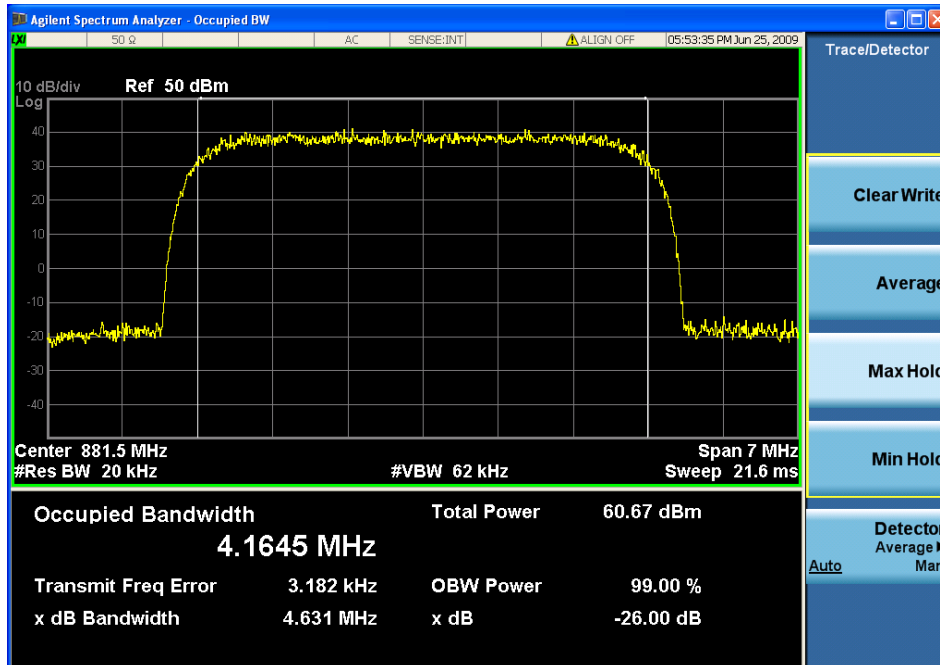




Cellular—WCDMA down link(middle frequency)-- Input

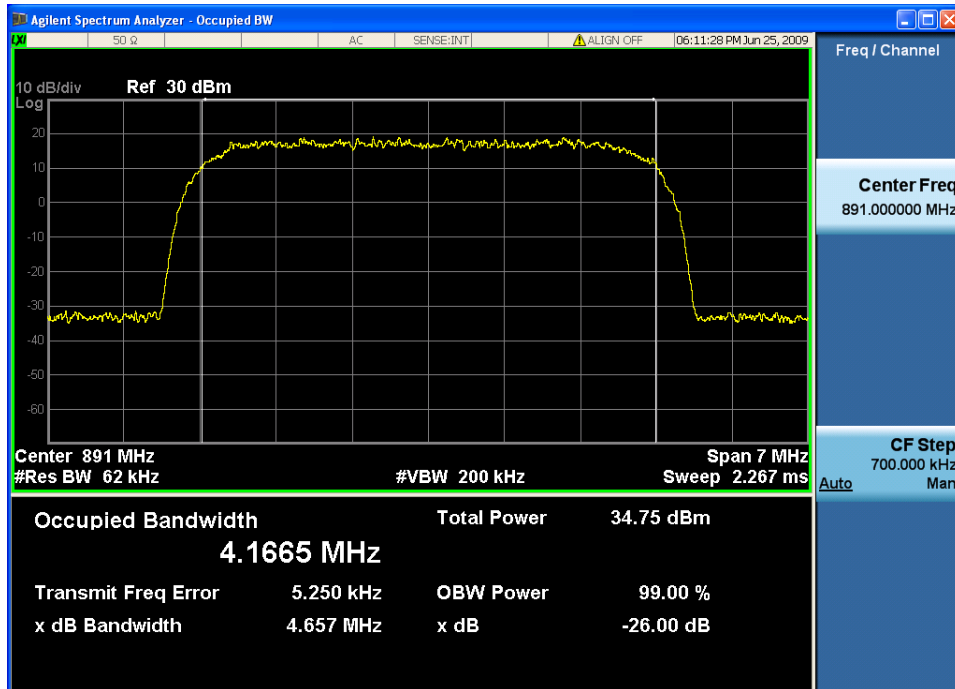


Cellular—WCDMA down link(middle frequency)-- Output

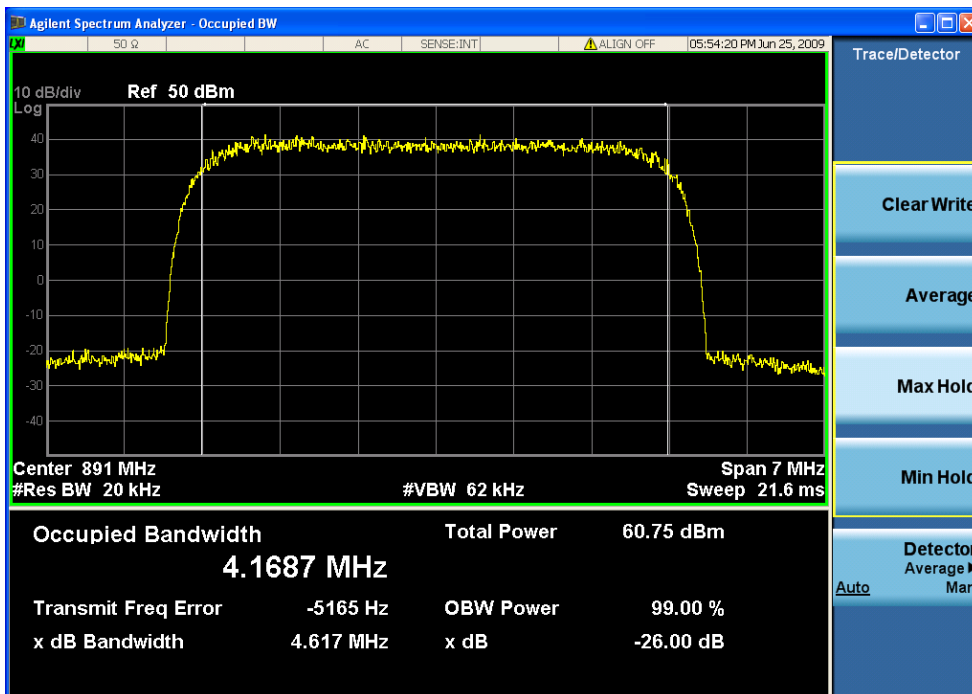




Cellular—WCDMA down link(highest frequency)—Input



Cellular—WCDMA down link(highest frequency)--Output



7.2.6 Out of Band Rejection

Test Date: 17 to 19 June 2009

Test Requirement: 2-11-04/EAB/RF

Test for rejection of out of band signals. Filter freq. response plots are acceptable.

Test Method: 2-11-04/EAB/RF

EUT Operation:

Status: The output power of EUT be set to maximum value.

Conditions: Normal conditions

Application: Cellular Band RF output ports

Test Configuration:

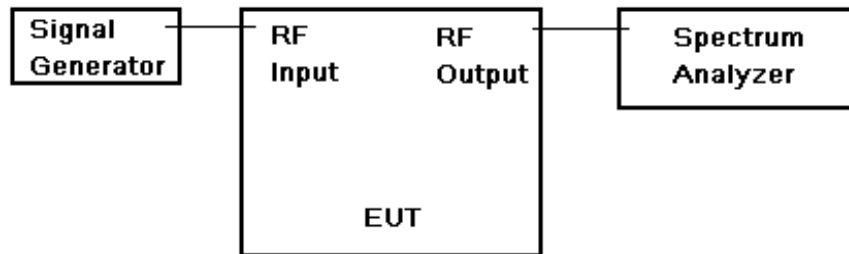


Fig.4. Out of Band rejection test configuration

Test Procedure:

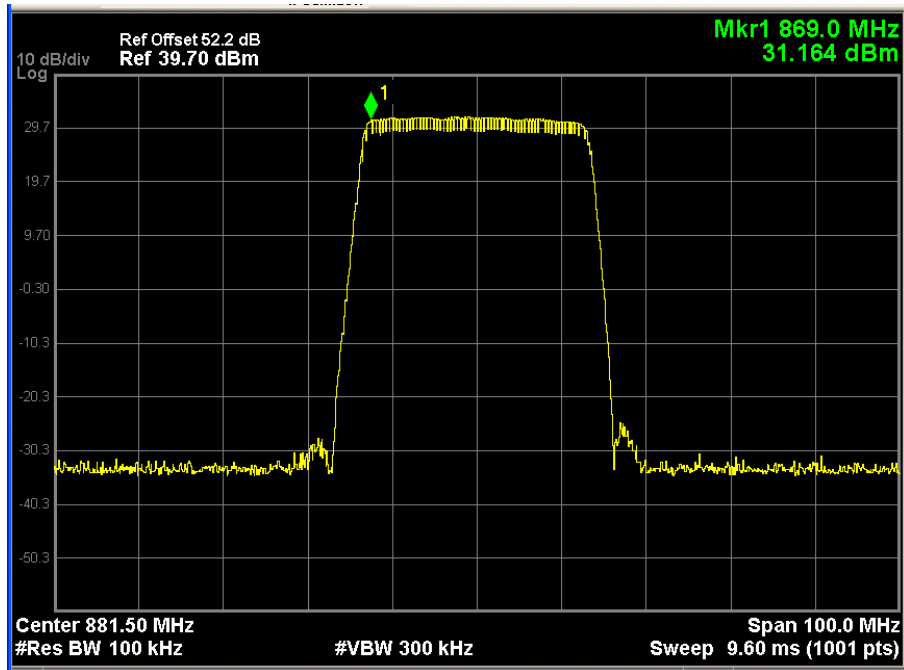
1. Connect the equipment as illustrated;
 2. Test the background noise level with all the test facilities;
 3. Keep one transmitting path, all other connectors shall be connected by normal power or RF leads;
 4. Select the attenuator to avoid the test receiver or spectrum analyzer being destroyed;
 5. Keep the EUT continuously transmitting in max power;
 6. Signal generator sweep from the frequency more lower than the product frequency to the frequency more higher than it, find the product band filter characteristic;
- CW signal rather than typical signal is acceptable (for FM).
 - Multiple band filter will need test each other.



7.2.6.1 Measurement Record:

Cellular Band

Cellular—down link





7.2.7 Frequency Stability

Test Date: 17 to 19 June 2009

Test Requirement: FCC part 22.355

Test Method: FCC part 2.1055

EUT Operation:

Status: The output power of EUT be set to maximum value.

Conditions: Temperature conditions, voltage conditions

Application: Cellular Band RF output ports

Test Procedure:

1. Temperature conditions:
 - a) record the 20°C and nominal voltage frequency value as reference point;
 - b) vary the temperature from -30°C to 60°C with step 10°C
 - c) when reach a temperature point, keep the temperature balance at least 1 hour to make the product working in this status;
 - d) read the frequency at the relative temperature.
2. Voltage conditions:
 - a) record the 20°C and nominal voltage frequency value as reference point;
 - b) vary the voltage from -15% nominal voltage to +15% voltage;
 - c) read the frequency at the relative voltage.

7.2.7.1 Measurement Record:

1. Frequency Stability vs temperature: Pass
2. Frequency Stability vs voltage: Pass

Test Conclusion:

The EUT belongs to AMP class, the EUT have no frequency translate and is transparent for the frequency transmitting, there were no offset observed in temperature and voltage conditions change.

7.2.8 Radiated Emissions, 30MHz to 5GHz

Test Requirement:	FCC Part15 B
Test Method:	ANSI C63.4
Frequency Range:	30MHz to 5GHz(base FCC part 15.33)
Measurement Distance:	10m
Class:	Class A
Limit:	39.1 dB μ V/m between 30MHz & 88MHz 43.5 dB μ V/m between 88MHz & 216MHz 46.4 dB μ V/m between 216MHz & 960MHz 49.5 dB μ V/m above 960MHz

7.2.8.1 E.U.T. Operation

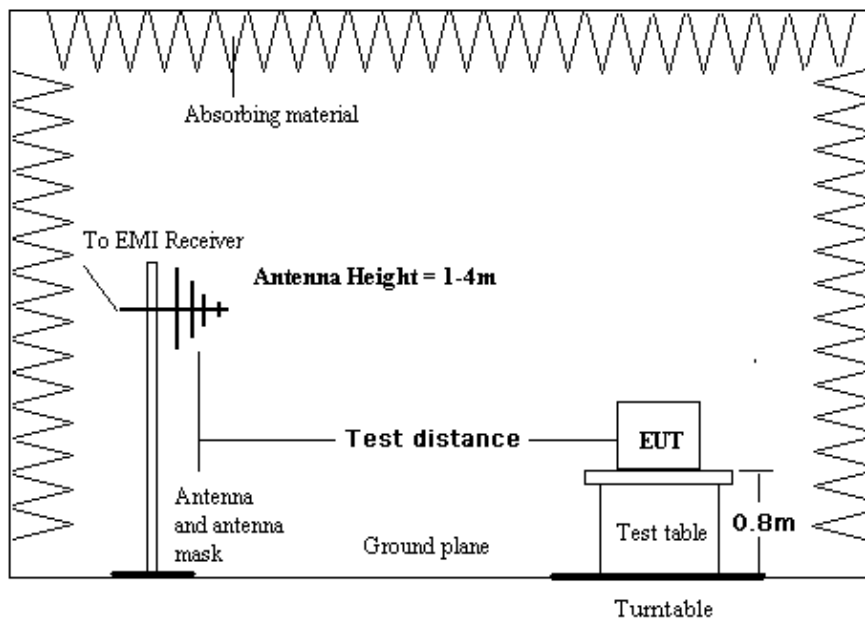
Operating Environment:

Temperature: 25.0 °C Humidity: 50% RH Atmospheric Pressure: 1005 mbar

Application: EUT enclosure

EUT Operation: Test in EUT normally working mode.

7.2.8.2 Test Setup





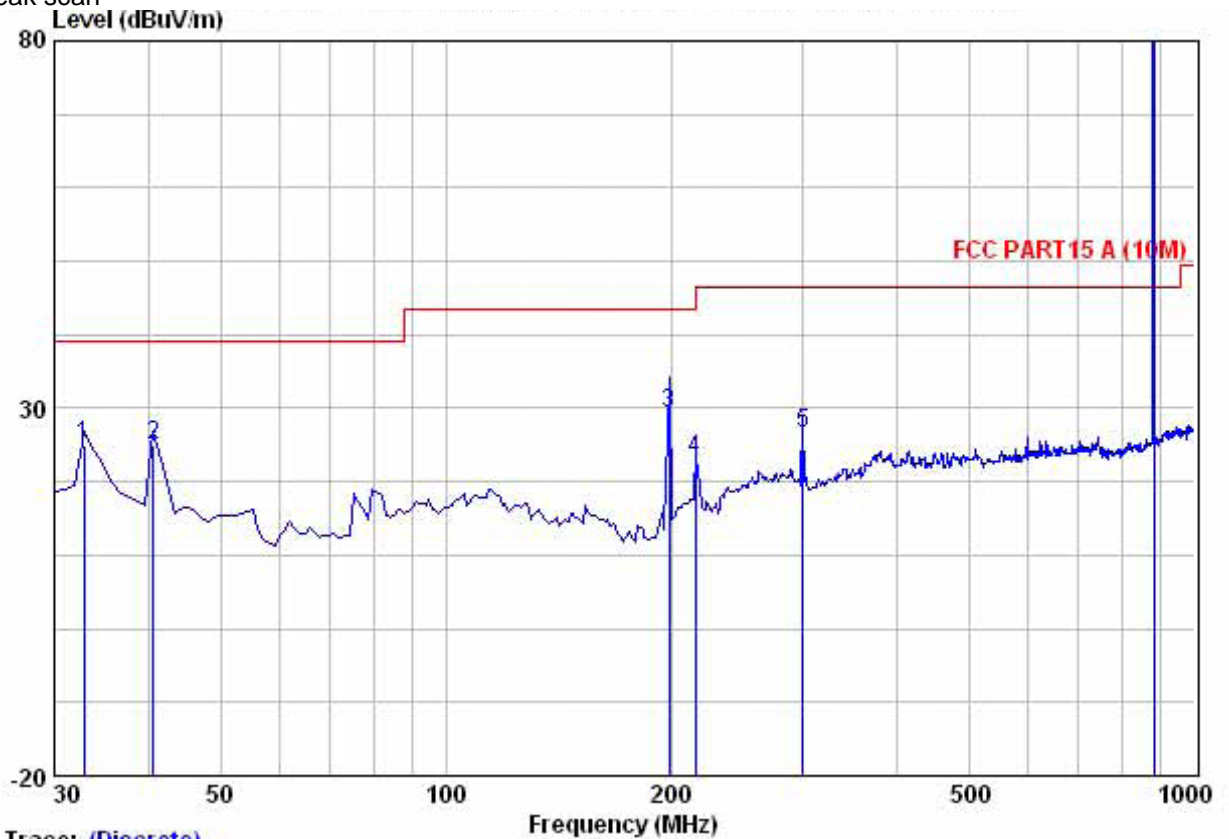
7.2.8.3 Measurement Data

An initial pre-scan was performed in the 10m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities

The following quasi-peak measurements were performed on EUT:

Vertical:

Peak scan



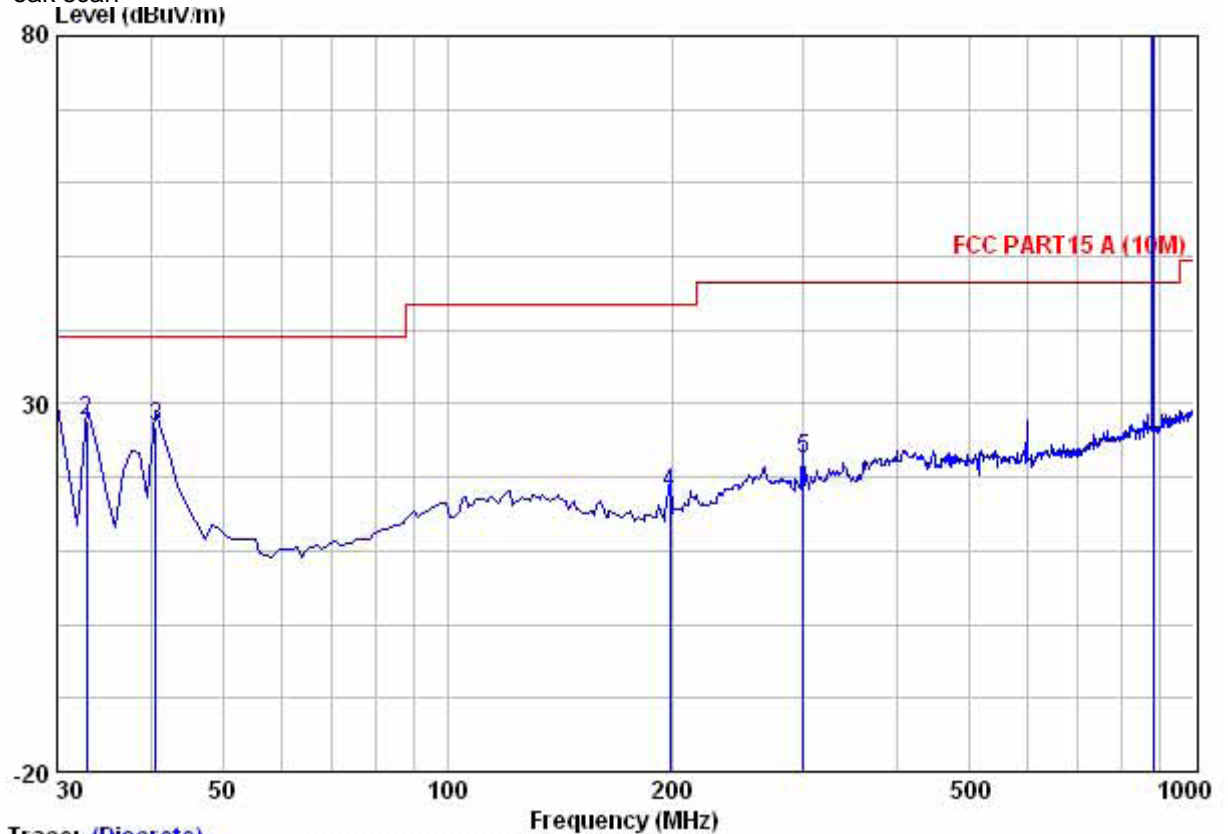
Quasi-peak measurement:

	ReadAntenna	Cable	Preamp	Limit	Over			
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 !	32.910	38.94	16.69	0.40	31.20	24.83	39.00	-14.17 QP
2 !	40.670	43.18	12.43	0.50	31.20	24.91	39.00	-14.09 QP
3 !	198.780	50.42	8.73	1.20	31.10	29.26	43.50	-14.24 QP
4 !	215.270	43.45	9.40	1.30	31.10	23.05	43.50	-20.45 QP
5 !	299.660	43.78	12.40	1.60	31.10	26.68	46.50	-19.82 QP
6 !	881.510	90.86	20.50	2.80	31.00	83.16	46.50	36.66 QP



Horizontal:

Peak scan



Quasi-peak measurement:

	Freq	ReadAntenna		Cable Preamp		Level	Limit	Over	Remark
		Level	Factor	Loss	Factor				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 !	30.000	40.40	18.30	0.30	31.20	27.80	39.00	-11.20	QP
2 !	32.910	41.73	16.69	0.40	31.20	27.61	39.00	-11.39	QP
3 !	40.670	45.20	12.43	0.50	31.20	26.93	39.00	-12.07	QP
4 !	198.780	39.01	8.73	1.20	31.10	17.84	43.50	-25.66	QP
5 !	299.660	39.56	12.40	1.60	31.10	22.46	46.50	-24.04	QP
6 !	881.515	87.05	20.50	2.80	31.00	79.35	46.50	32.85	QP

1. Level = Read Level + Antenna Factor + Cable Loss – Preamp Factor.

2. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Remark: No any emissions can be found above 1GHz.

--End of the Report--