



Partial FCC RF Test Report

APPLICANT : Hewlett-Packard Company
EQUIPMENT : HP ElitePad 900
BRAND NAME : hp
MODEL NAME : HSTNN-C75C
FCC ID : B94HNC75CHWCP
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a partial report which is included the Radiation test item. The product was received on Sep. 05, 2012 and completely tested on Sep. 19, 2012. We, SPORTON INTERNATIONAL Inc., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-C-2004 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:

Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1053 §22.917(a) §24.238(a) §27.53(g)	RSS-132 (4.5.1) RSS-133 (6.5.1) RSS-139 (6.5)	Field Strength of Spurious Radiation	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 3.72 dB at 2506.000 MHz



1 General Description

1.1 Applicant

Hewlett-Packard Company
3000 Hanover Street, Palo Alto, California 94304, USA

1.2 Manufacturer

COMPAL ELECTRONICS, INC.
No. 581, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan (R.O.C.)

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	HP ElitePad 900
Brand Name	hp
Model Name	HSTNN-C75C
FCC ID	B94HNC75CHWCP
Integrated Module	Brand Name: HUAWEI Model Name: MU733 FCC ID: QISMU733
EUT supports Radios application	GSM/EGPRS/WCDMA WLAN 11abgn / Bluetooth / NFC
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

Product Specification subjective to this standard	
Tx Frequency	GSM850: 824.2 MHz ~ 848.8 MHz GSM1900: 1850.2 MHz ~ 1909.8MHz WCDMA Band V: 826.4 MHz ~ 846.6 MHz WCDMA Band IV : 1712.4 MHz ~ 1752.6 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz
Rx Frequency	GSM850: 869.2 MHz ~ 893.8 MHz GSM1900: 1930.2 MHz ~ 1989.8 MHz WCDMA Band V: 871.4 MHz ~ 891.6 MHz WCDMA Band IV : 2112.4 MHz ~ 2152.6 MHz WCDMA Band II : 1932.4 MHz ~ 1987.6 MHz
Maximum Output Power to Antenna	GSM850 : 32.49 dBm GSM1900 : 29.59 dBm WCDMA Band V : 23.45 dBm WCDMA Band IV : 23.24 dBm WCDMA Band II : 23.63 dBm
Antenna Type	PCB Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)

1.4 Testing Site

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH06-HY	722060/4086B-1

1.5 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ Preliminary Guidance for Receiving Applications for Certification of 3G Device. May 9, 2006.
- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v01
- ♦ IC RSS-132 Issue 2
- ♦ IC RSS-133 Issue 5
- ♦ IC RSS-139 Issue 2

Remark:

All test items were verified and recorded according to the standards and without any deviation during the test.

1.6 Ancillary Equipment List

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU200	N/A	N/A	Unshielded, 1.8 m
2.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A

2 Test Configuration of Equipment Under Test

2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

Frequency range investigated for radiated emission is as follows:

1. 30 MHz to 9000 MHz for GSM850 and WCDMA Band V.
2. 30 MHz to 18000 MHz for WCDMA Band IV.
3. 30 MHz to 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes	
Band	Radiated TCs
GSM 850	<ul style="list-style-type: none"> ■ GPRS 8 Link ■ EDGE 8 Link
GSM 1900	<ul style="list-style-type: none"> ■ GPRS 8 Link ■ EDGE 8 Link
WCDMA Band V	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link
WCDMA Band IV	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link
WCDMA Band II	<ul style="list-style-type: none"> ■ RMC 12.2Kbps Link

Note:

1. The maximum power levels are GSM or GPRS multi-slot class 8 mode for GMSK link, EDGE multi-slot class 8 mode for 8PSK link, RMC 12.2Kbps mode for WCDMA band V, RMC 12.2Kbps mode for WCDMA band IV, and RMC 12.2Kbps mode for WCDMA band II, only these modes were used for all tests.
2. Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

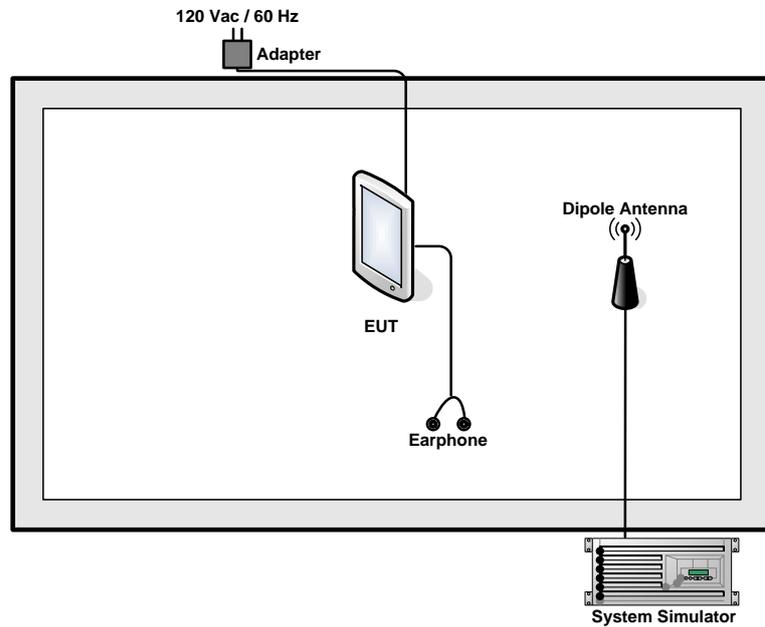


The conducted power tables are as follows:

Conducted Power (*Unit: dBm)						
Band	GSM850			GSM1900		
Channel	128	189	251	512	661	810
Frequency	824.2	836.4	848.8	1850.2	1880	1909.8
GPRS 8	32.45	32.49	32.42	29.50	29.59	29.50
GPRS 10	32.43	32.45	32.40	29.49	29.58	29.49
EGPRS 8	26.98	27.00	26.92	25.86	26.00	25.97
EGPRS 10	26.94	26.96	26.88	25.86	26.00	25.97
EGPRS 12	26.92	26.93	26.86	25.79	25.87	25.75

Conducted Power (*Unit: dBm)									
Band	WCDMA Band V			WCDMA Band II			WCDMA Band IV		
Tx Channel	4132	4182	4233	9262	9400	9538	1312	1413	1513
Rx Channel	4357	4408	4458	9662	9800	9938	1537	1638	1738
Frequency	826.4	836.4	846.6	1852.4	1880	1907.6	1712.4	1732.6	1752.6
RMC 12.2K	23.45	23.24	23.26	23.63	23.46	23.50	23.16	23.02	23.24
HSDPA Subtest-1	23.43	23.23	23.24	23.61	23.43	23.46	23.06	22.83	23.12
HSDPA Subtest-2	22.91	22.73	22.76	23.17	22.95	22.99	22.65	22.45	22.74
HSDPA Subtest-3	22.45	22.26	22.28	22.68	22.49	22.53	22.24	22.02	22.32
HSDPA Subtest-4	22.22	22.03	22.07	22.40	22.20	22.25	21.95	21.72	22.00
HSUPA Subtest-1	22.45	22.22	22.23	22.69	22.50	22.53	22.16	22.08	22.19
HSUPA Subtest-2	20.71	20.55	20.57	21.03	20.88	20.94	20.51	20.44	20.54
HSUPA Subtest-3	21.56	21.33	21.36	21.72	21.59	21.63	21.27	21.18	21.30
HSUPA Subtest-4	21.07	20.88	20.94	21.41	21.24	21.26	20.86	20.78	20.87
HSUPA Subtest-5	22.99	22.78	22.83	23.10	22.93	22.97	22.51	22.42	22.52

2.2 Connection Diagram of Test System





3 Test Result

3.1 Field Strength of Spurious Radiation Measurement

3.1.1 Description of Field Strength of Spurious Radiated Measurement

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.1.2 Measuring Instruments

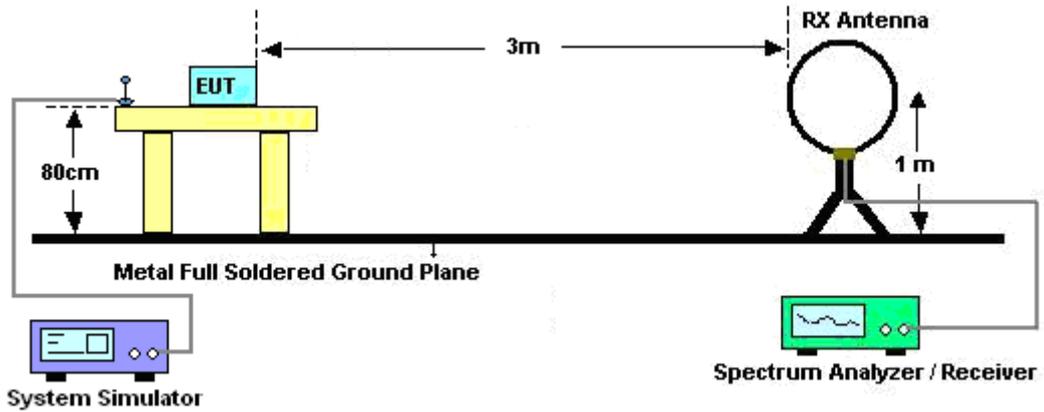
See list of measuring instruments of this test report.

3.1.3 Test Procedures

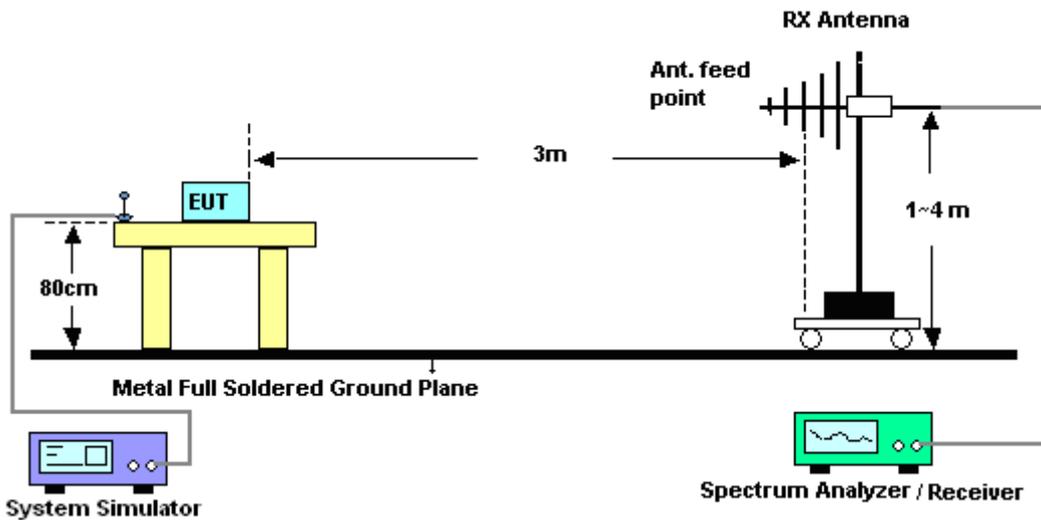
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. $EIRP \text{ (dBm)} = S.G. \text{ Power} - Tx \text{ Cable Loss} + Tx \text{ Antenna Gain}$
11. $ERP \text{ (dBm)} = EIRP - 2.15$

3.1.4 Test Setup

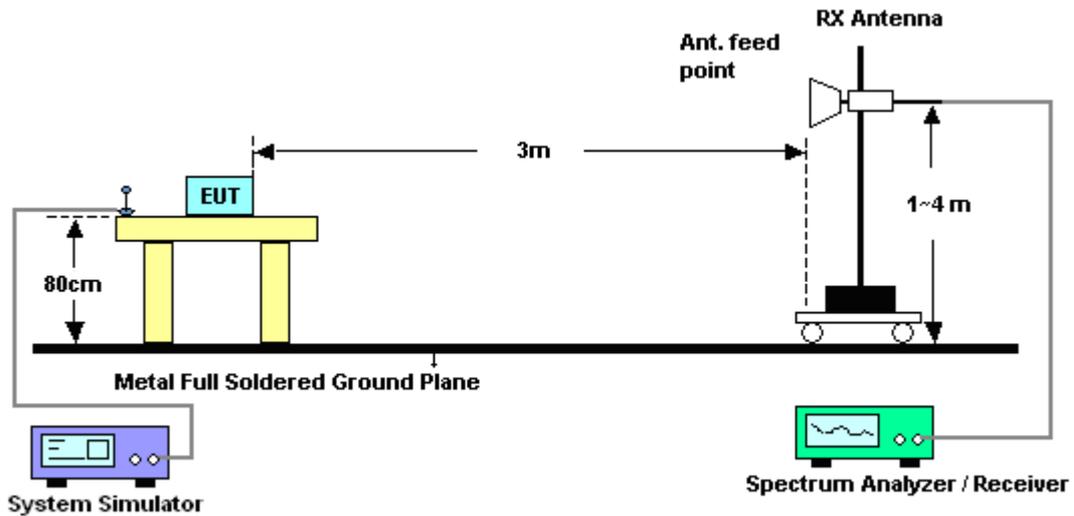
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



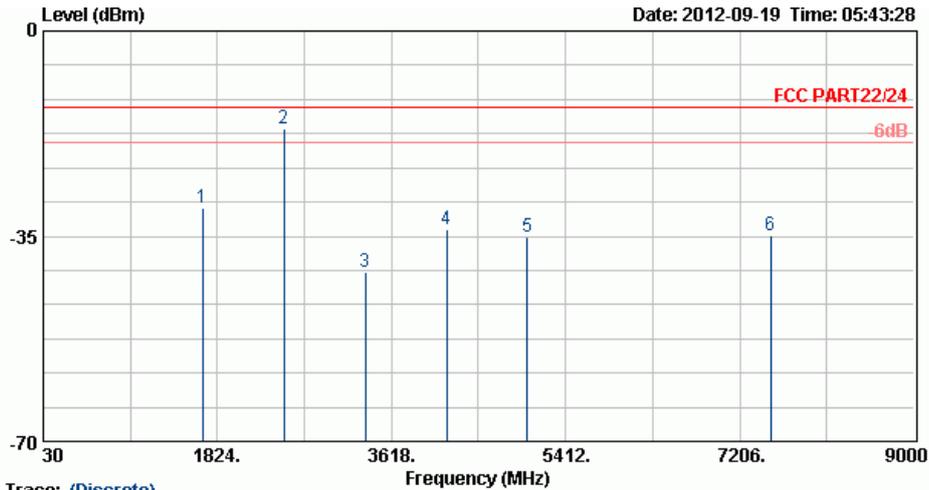
3.1.5 Test Results of Radiated Emissions (9 KHz ~ 30 MHz)

The low frequency, which started from 9 KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.



3.1.6 Test Result of Field Strength of Spurious Radiated

Band :	GSM850	Temperature :	29~30°C
Test Mode :	GPRS 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

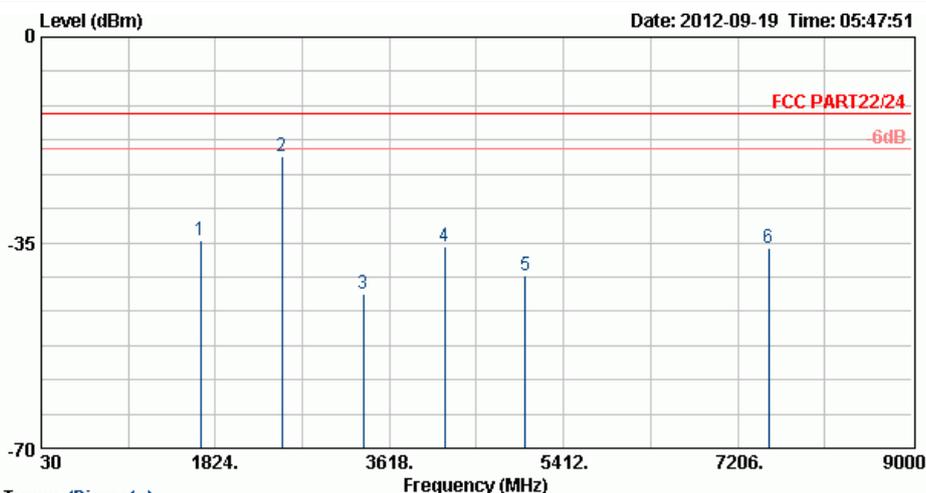


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_I00524 HORIZONTAL
 Project : FG 290555

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-30.19	-13	-17.19	-40.82	-31.65	1.88	5.49	H	Pass
2506	-16.72	-13	-3.72	-29.27	-18.35	2.44	6.22	H	Pass
3346	-41.07	-13	-28.07	-57.22	-44.52	2.47	8.07	H	Pass
4185	-33.78	-13	-20.78	-52.87	-38.49	2.35	9.21	H	Pass
5020	-35.03	-13	-22.03	-56.26	-40.14	3.05	10.31	H	Pass
7525	-34.90	-13	-21.9	-61.94	-41.24	3.63	12.12	H	Pass



Band :	GSM850	Temperature :	29~30°C
Test Mode :	GPRS 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

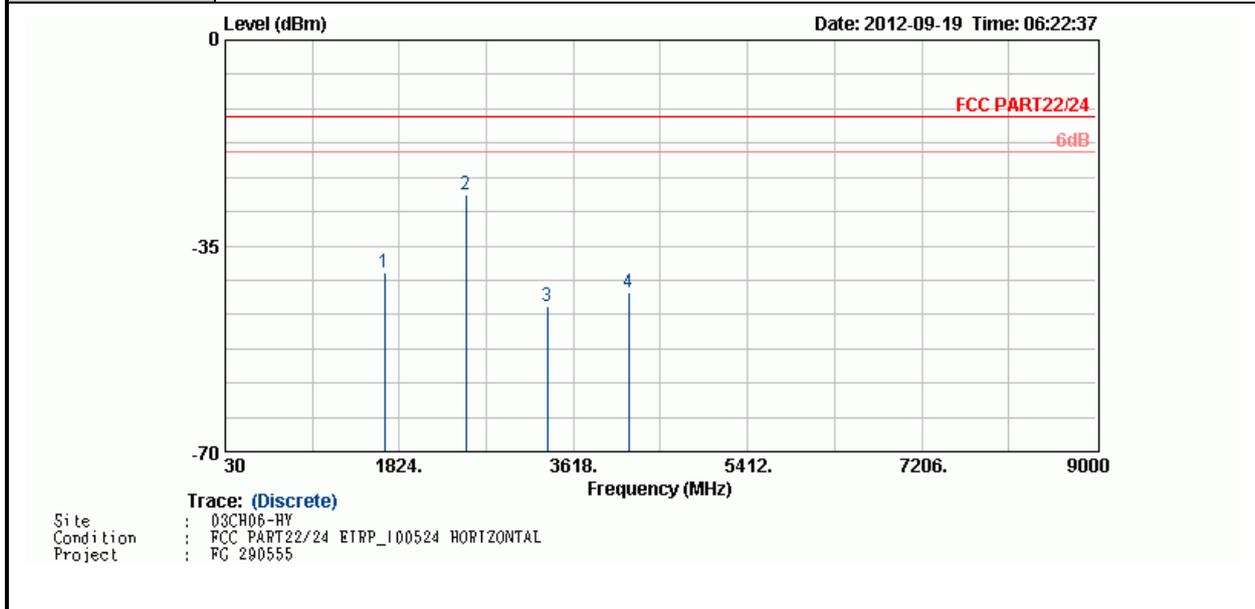


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 VERTICAL
 Project : FG 290555

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-34.69	-13	-21.69	-45.16	-36.15	1.88	5.49	V	Pass
2506	-20.40	-13	-7.4	-32.97	-22.03	2.44	6.22	V	Pass
3346	-43.61	-13	-30.61	-59.7	-47.06	2.47	8.07	V	Pass
4185	-35.74	-13	-22.74	-54.99	-40.45	2.35	9.21	V	Pass
5020	-40.56	-13	-27.56	-61.69	-45.67	3.05	10.31	V	Pass
7525	-35.94	-13	-22.94	-62.74	-42.28	3.63	12.12	V	Pass



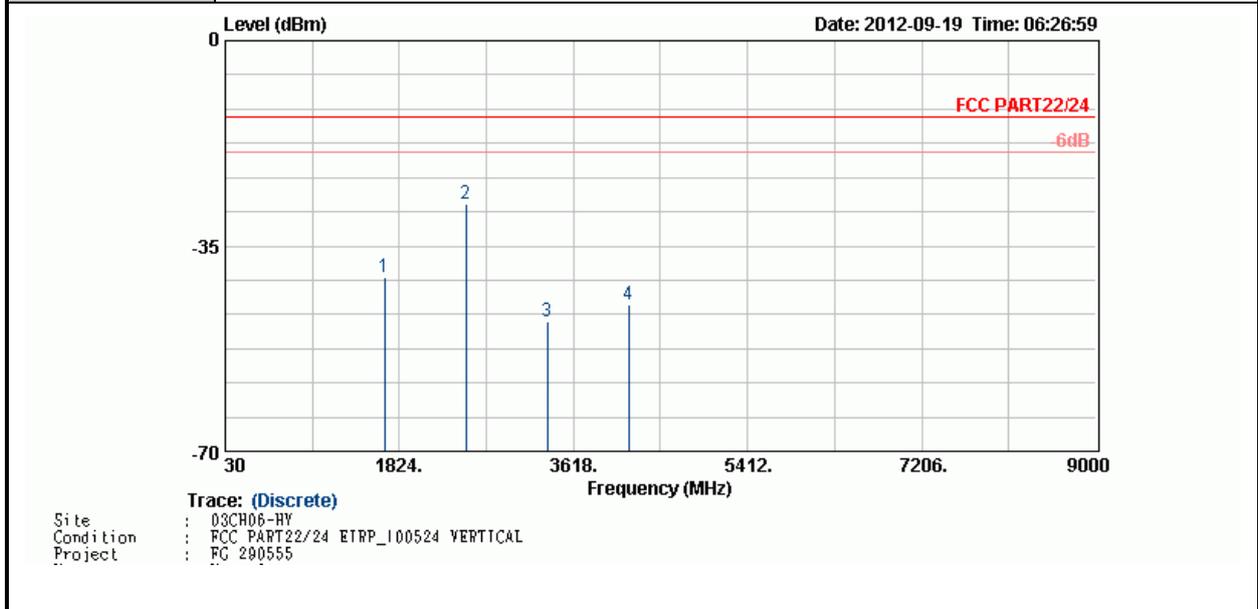
Band :	GSM850	Temperature :	29~30°C
Test Mode :	EDGE 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-39.50	-13	-26.5	-50.13	-40.96	1.88	5.49	H	Pass
2506	-26.22	-13	-13.22	-38.74	-27.85	2.44	6.22	H	Pass
3346	-45.23	-13	-32.23	-61.26	-48.68	2.47	8.07	H	Pass
4185	-42.88	-13	-29.88	-62.05	-47.59	2.35	9.21	H	Pass



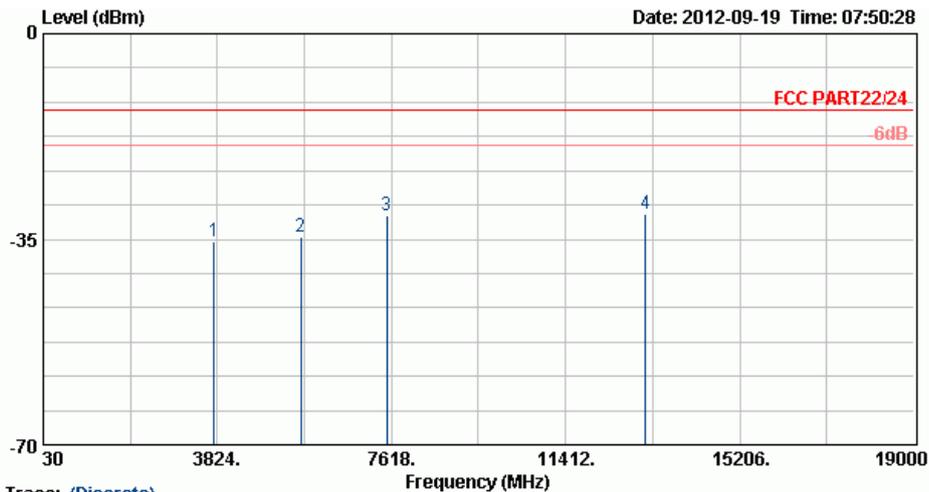
Band :	GSM850	Temperature :	29~30°C
Test Mode :	EDGE 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-40.30	-13	-27.3	-50.94	-41.76	1.88	5.49	V	Pass
2506	-27.82	-13	-14.82	-40.38	-29.45	2.44	6.22	V	Pass
3346	-47.86	-13	-34.86	-63.91	-51.31	2.47	8.07	V	Pass
4185	-44.94	-13	-31.94	-63.95	-49.65	2.35	9.21	V	Pass



Band :	GSM1900	Temperature :	29~30°C
Test Mode :	GPRS 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

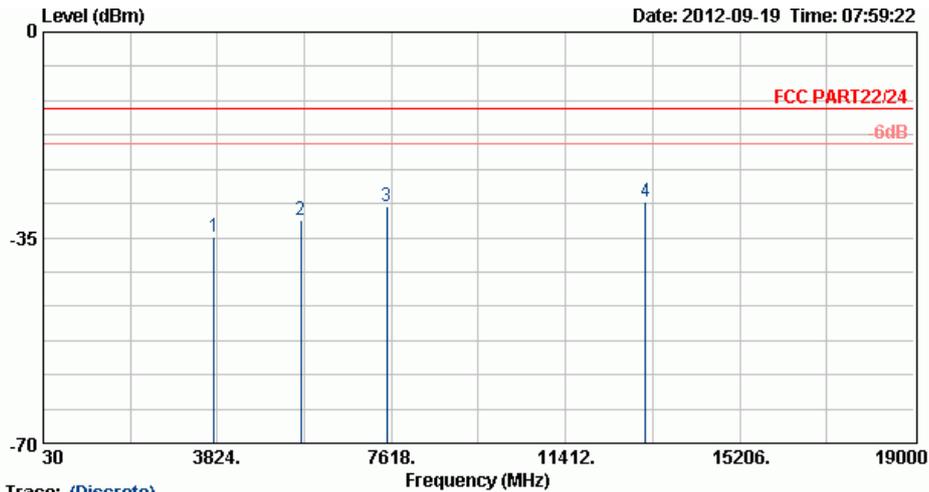


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 HORIZONTAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-35.43	-13	-22.43	-53.03	-41.68	2.56	8.81	H	Pass
5636	-34.66	-13	-21.66	-57.46	-42.40	2.96	10.70	H	Pass
7516	-31.08	-13	-18.08	-58.31	-39.98	3.22	12.12	H	Pass
13156	-30.70	-13	-17.70	-65.25	-41.01	3.48	13.79	H	Pass



Band :	GSM1900	Temperature :	29~30°C
Test Mode :	GPRS 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

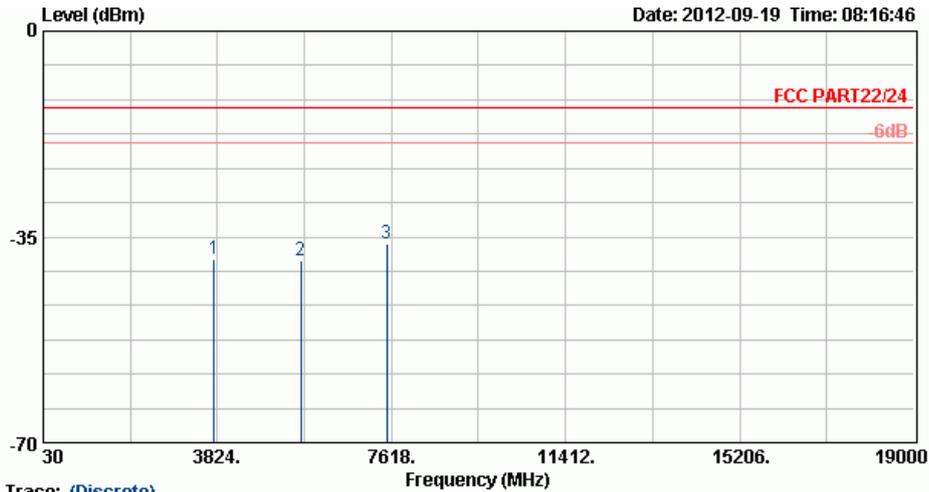


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 VERTICAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-34.90	-13	-21.90	-52.42	-41.15	2.56	8.81	V	Pass
5636	-32.10	-13	-19.10	-54.95	-39.84	2.96	10.70	V	Pass
7516	-29.68	-13	-16.68	-56.7	-38.58	3.22	12.12	V	Pass
13156	-28.90	-13	-15.90	-63.55	-39.21	3.48	13.79	V	Pass



Band :	GSM1900	Temperature :	29~30°C
Test Mode :	EDGE 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

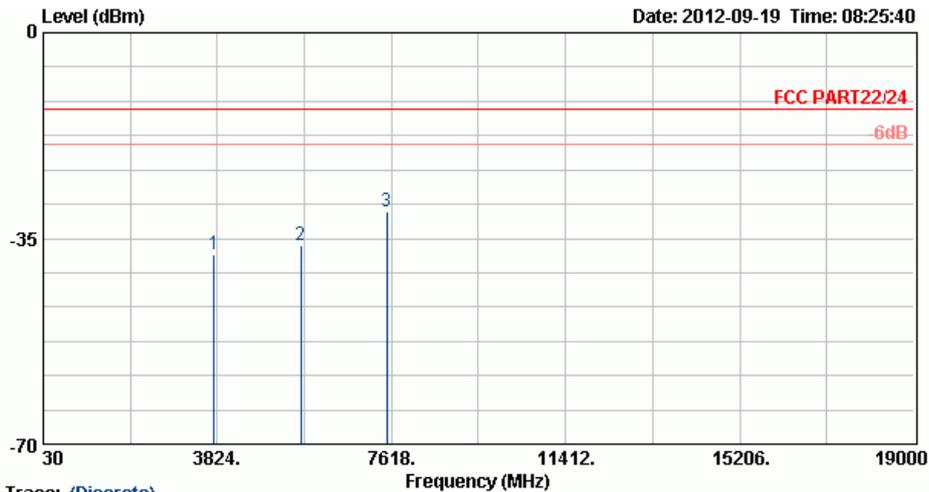


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 HORIZONTAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-38.71	-13	-25.71	-56.30	-44.96	2.56	8.81	H	Pass
5636	-39.03	-13	-26.03	-61.78	-46.77	2.96	10.70	H	Pass
7516	-36.12	-13	-23.12	-62.97	-45.02	3.22	12.12	H	Pass



Band :	GSM1900	Temperature :	29~30°C
Test Mode :	EDGE 8 Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

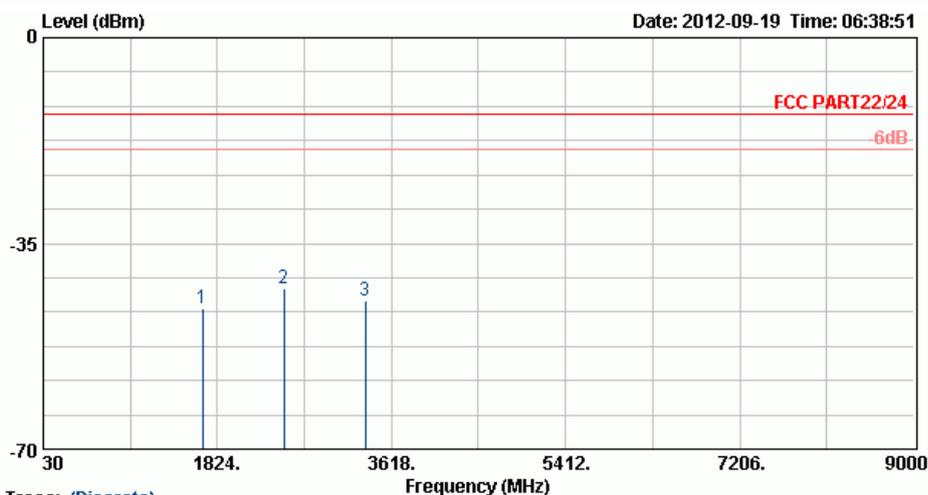


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 VERTICAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3756	-37.62	-13	-24.62	-55.40	-43.87	2.56	8.81	V	Pass
5636	-36.20	-13	-23.20	-59.19	-43.94	2.96	10.70	V	Pass
7516	-30.44	-13	-17.44	-57.41	-39.34	3.22	12.12	V	Pass



Band :	WCDMA Band V	Temperature :	29~30°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

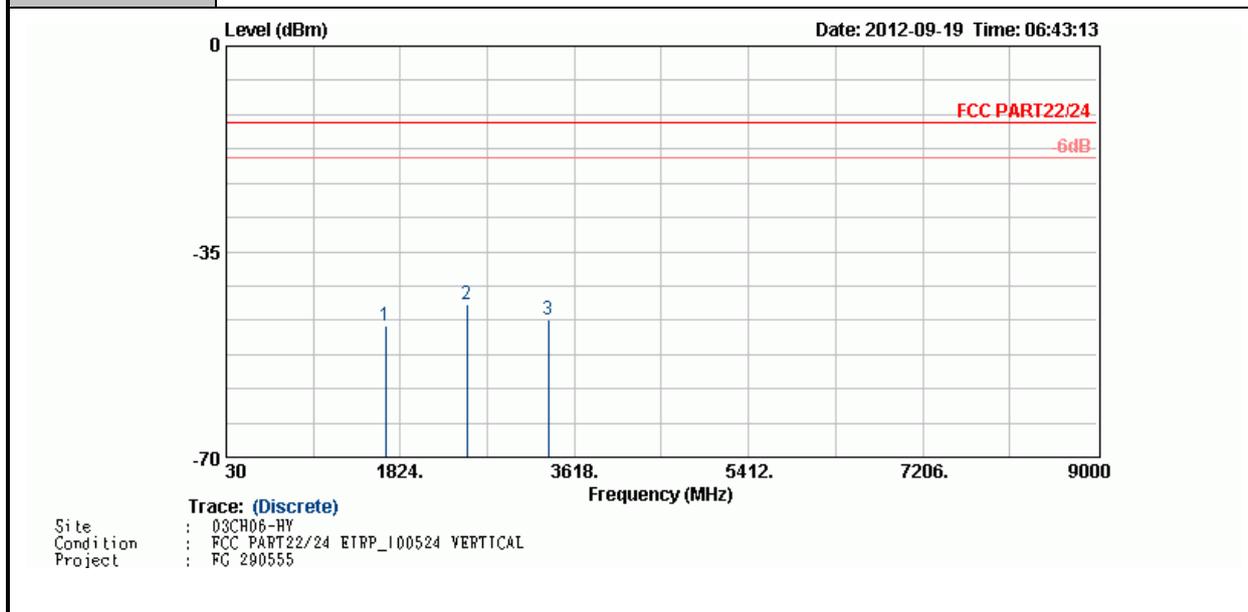


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 HORIZONTAL
 Project : FG 290555

Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-45.96	-13	-32.96	-56.46	-47.42	1.88	5.49	H	Pass
2506	-42.72	-13	-29.72	-55.22	-44.35	2.44	6.22	H	Pass
3346	-44.76	-13	-31.76	-60.69	-48.21	2.47	8.07	H	Pass



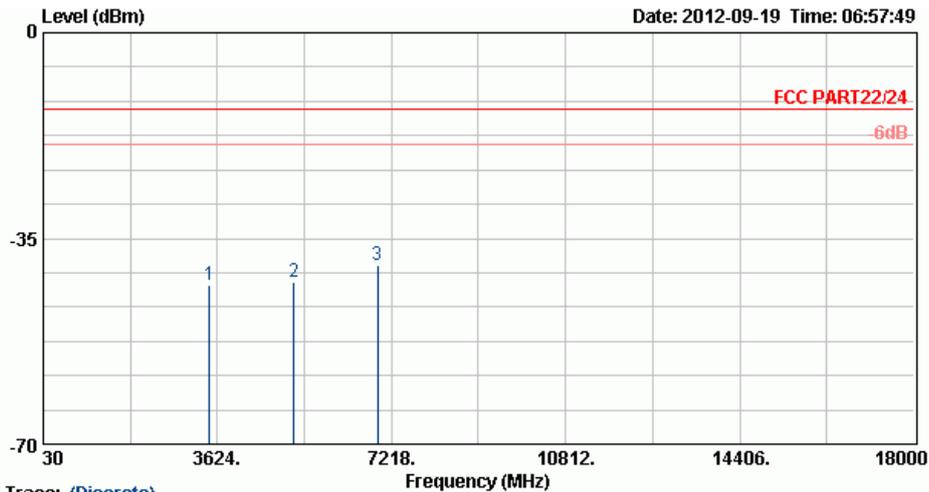
Band :	WCDMA Band V	Temperature :	29~30°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
1672	-47.65	-13	-34.65	-57.91	-49.11	1.88	5.49	V	Pass
2506	-43.96	-13	-30.96	-56.28	-45.59	2.44	6.22	V	Pass
3346	-46.59	-13	-33.59	-62.99	-50.04	2.47	8.07	V	Pass



Band :	WCDMA Band IV	Temperature :	29~30°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

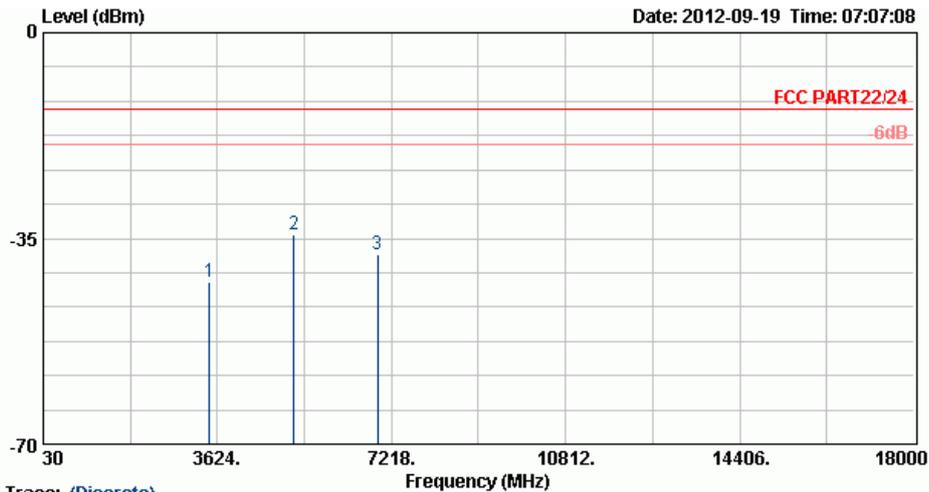


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 HORIZONTAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3464	-42.86	-13	-29.86	-59.18	-46.69	4.48	8.31	H	Pass
5197	-42.51	-13	-29.51	-64.07	-47.15	5.332	9.98	H	Pass
6930	-39.55	-13	-26.55	-64.61	-44.79	6.1	11.34	H	Pass



Band :	WCDMA Band IV	Temperature :	29~30°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

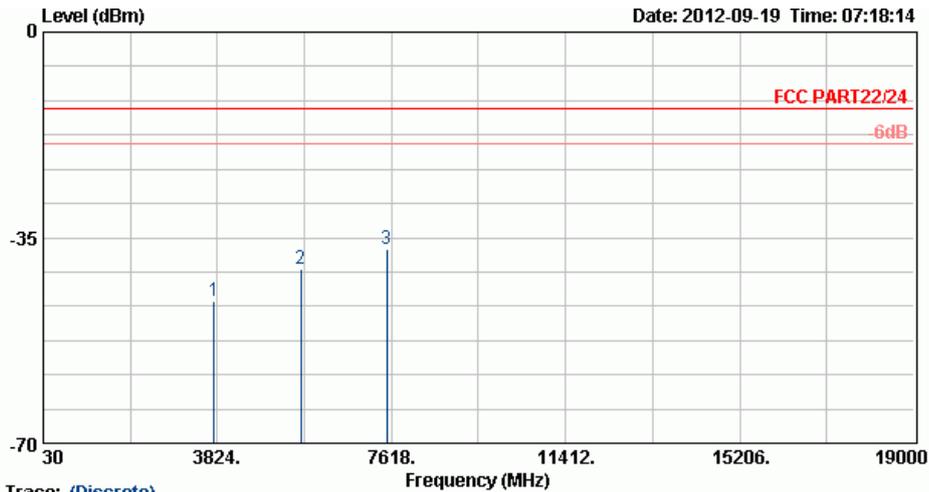


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 VERTICAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3464	-42.41	-13	-29.41	-59.02	-46.24	4.48	8.31	V	Pass
5197	-34.27	-13	-21.27	-55.9	-38.91	5.332	9.98	V	Pass
6930	-37.78	-13	-24.78	-63.12	-43.02	6.1	11.34	V	Pass



Band :	WCDMA Band II	Temperature :	29~30°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

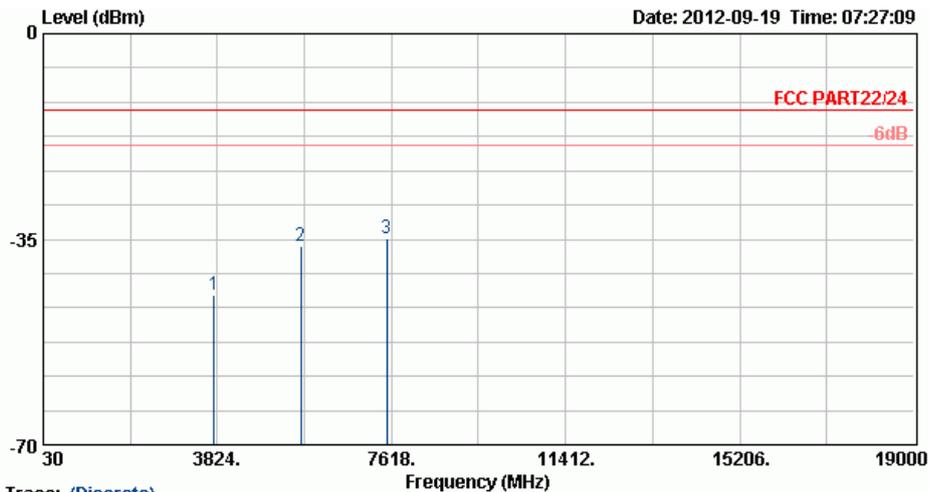


Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 ETRP_100524 HORIZONTAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-45.69	-13	-32.69	-62.93	-51.94	2.56	8.81	H	Pass
5636	-40.38	-13	-27.38	-63.26	-48.12	2.96	10.70	H	Pass
7520	-36.95	-13	-23.95	-63.96	-45.85	3.22	12.12	H	Pass



Band :	WCDMA Band II	Temperature :	29~30°C
Test Mode :	RMC 12.2Kbps Link	Relative Humidity :	45~46%
Test Engineer :	Kai Wang	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Trace: (Discrete)
 Site : 03CH06-HY
 Condition : FCC PART22/24 EIRP_100524 VERTICAL
 Project : FG 290555

Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)	Result
3760	-44.38	-13	-31.38	-61.92	-50.63	2.56	8.81	V	Pass
5636	-36.28	-13	-23.28	-59.30	-44.02	2.96	10.70	V	Pass
7520	-34.96	-13	-21.96	-62.1	-43.86	3.22	12.12	V	Pass



4 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Agilent	E4408B	MY44211030	9KHz ~ 26.5GHz	Nov. 23, 2011	Sep. 19, 2012	Nov. 22, 2012	Radiation (03CH06-HY)
Spectrum Analyzer	R&S	FSP30	101352	9KHz-30GHz	Nov. 03, 2011	Sep. 19, 2012	Nov. 02, 2012	Radiation (03CH06-HY)
EMI Test Receiver	R&S	ESVS10	834468/003	20MHz ~ 1000MHz	May 04, 2012	Sep. 19, 2012	May. 03, 2013	Radiation (03CH06-HY)
Bilog Antenna	SCHAFFNER	CBL6112B	2885	30MHz ~ 2GHz	Oct. 22, 2011	Sep. 19, 2012	Oct. 21, 2012	Radiation (03CH06-HY)
Double Ridge Horn Antenna	EMCO	3117	00066583	1GHz ~ 18GHz	Aug. 01, 2012	Sep. 19, 2012	Jul. 31, 2013	Radiation (03CH06-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA917025 1	15GHz ~ 40GHz	Oct. 20, 2011	Sep. 19, 2012	Oct. 19, 2012	Radiation (03CH06-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz ~ 26.5GHz	Apr. 13, 2012	Sep. 19, 2012	Apr. 12, 2013	Radiation (03CH06-HY)
Amplifier	Agilent	310N	186713	9KHz ~ 1GHz	Apr. 11, 2012	Sep. 19, 2012	Apr. 10, 2013	Radiation (03CH06-HY)
Pre Amplifier	EMCI	EMC051845	SN980048	1GHz ~ 18GHz	Jul. 21, 2012	Sep. 19, 2012	Jul. 20, 2013	Radiation (03CH06-HY)
Pre Amplifier	MITEQ	AMF-7D-00 101800-30-1	159087	1GHz~18GHz	Feb. 27, 2012	Sep. 19, 2012	Feb. 26, 2013	Radiation (03CH06-HY)
Loop Antenna	R&S	HFH2-Z2	860004/001	9KHz ~ 30MHz	Jul. 03, 2012	Sep. 19, 2012	Jul. 02, 2014	Radiation (03CH06-HY)
System Simulator	R&S	CMU200	117591	N/A	Oct. 21, 2011	Sep. 19, 2012	Oct. 20, 2013	Radiation (03CH06-HY)



5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.54
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.72
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