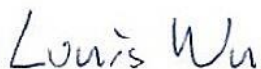


FCC RF Test Report

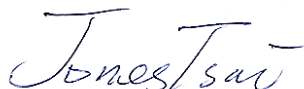
APPLICANT : Motorola Solutions, Inc.
EQUIPMENT : GSM/GPRS/UMTS/HSPA Module
BRAND NAME : MOTOROLA
MODEL NAME : 7528P
FCC ID : UZ77528PA
STANDARD : FCC 47 CFR Part 2, 22(H), 24(E)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

This is a partial report which is included the effective radiated power and equivalent isotropic radiated power and field strength of spurious radiation test items. The product was received on Dec. 27, 2013 and testing was completed on Jan. 03, 2014. 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 to be compliant 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: Louis Wu / Manager



Approved 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.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

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FCC ID : UZ77528PA

Page Number : 1 of 56

Report Issued Date : Jan. 28, 2014

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG3D2754	Rev. 01	Initial issue of report	Jan. 28, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§22.913(a)(2)	RSS-132(5.4) SRSP-503(5.1.3)	Effective Radiated Power	< 7 Watts	PASS	-
3.1	§24.232(c)	RSS-133 (6.4) SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	< 2 Watts	PASS	-
3.2	§2.1053 §22.917(a) §24.238(a)	RSS-132 (5.5) RSS-133 (6.5)	Field Strength of Spurious Radiation	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 12.39 dB at 5640.000 MHz

1 General Description

1.1 Applicant

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.2 Manufacturer

Motorola Solutions, Inc.

One Motorola Plaza, Holtsville, NY 11742-1300 USA

1.3 Feature of Equipment Under Test

Product Feature	
Equipment	GSM/GPRS/UMTS/HSPA Module
Brand Name	MOTOROLA
Model Name	7528P
FCC ID	UZ77528PA
Host of EUT	Equipment: WORKABOUT PRO 4 Brand Name: MOTOROLA Model Name: 7528XP
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/ WLAN 11abgn(HT20) / Bluetooth v2.1 + EDR
HW Version	MV
SW Version	0.1.36119.1
FW Version	X_2.01.0.0.062R
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.

1.4 Product Specification of Equipment Under Test

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 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 II: 1932.4 MHz ~ 1987.6 MHz
Antenna Type	Printed PCB Antenna
Type of Modulation	GSM: GMSK GPRS: GMSK EDGE: GMSK / 8PSK WCDMA: QPSK (Uplink) HSDPA: QPSK (Uplink) HSUPA: QPSK (Uplink)

Specification of Accessory (Host)		
AC Adapter	Brand Name	PHIHONG
	Model Name	PSA15R-050P
Battery	Brand Name	Psion
	Model Name	WA3010
Docking	Brand Name	Psion
	Model Name	WA4003-G2
USB to RS232 Adapter	Brand Name	PSION
	Model Name	WA4015-G1
Pouch Holster	Model Name	WA6084
Pistol Holster	Model Name	WA6083
Carry Case	Model Name	WA6080
USB Cable	Brand Name	N/A
	Model Name	N/A
	Power Cord	1.4 meter shielded cable without ferrite core

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Maximum ERP/EIRP Power

FCC Rule	System	Type of Modulation	Maximum ERP/EIRP (W)
Part 22	GSM850 GPRS class 8	GMSK	1.09
Part 22	GSM850 EDGE class 8	8PSK	0.22
Part 22	WCDMA Band V RMC 12.2Kbps	QPSK	0.12
Part 24	GSM1900 GPRS class 10	GMSK	1.03
Part 24	GSM1900 EDGE class 8	8PSK	0.49
Part 24	WCDMA Band II RMC 12.2Kbps	QPSK	0.25

1.7 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.
	TH02-HY	03CH07-HY	722060/4086B-1

1.8 Applied Standards

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

- ♦ FCC 47 CFR Part 2, 22(H), 24(E)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01

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

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 19000 MHz for GSM1900 and WCDMA Band II.

Test Modes	
Band	Radiated TCs
GSM 850	<ul style="list-style-type: none">■ GPRS class 8 Link■ EDGE class 8 Link
GSM 1900	<ul style="list-style-type: none">■ GPRS class 10 Link■ EDGE class 8 Link
WCDMA Band V	<ul style="list-style-type: none">■ RMC 12.2Kbps Link
WCDMA Band II	<ul style="list-style-type: none">■ RMC 12.2Kbps Link

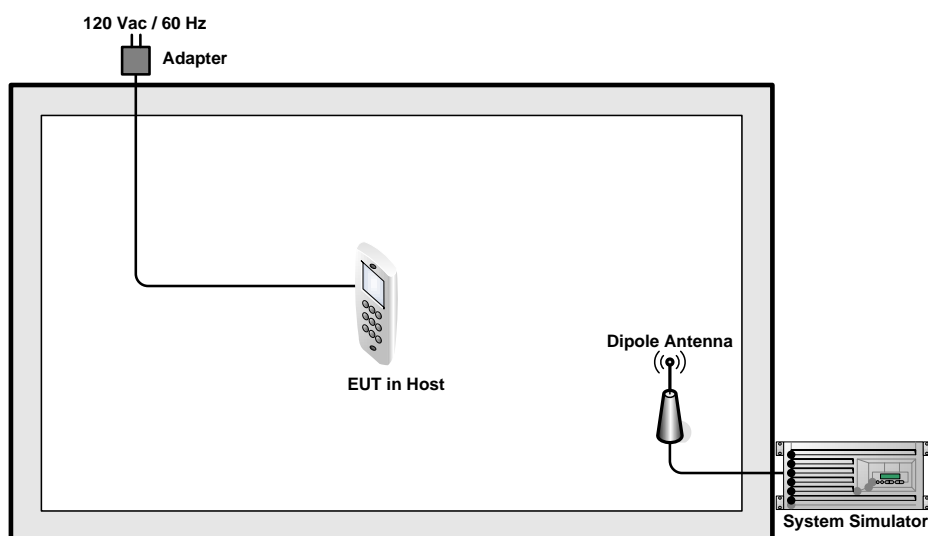
Note: Because there are individual antennas for each WWAN, WLAN, and Bluetooth, the co-location test modes are not required.

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	1880.0	1909.8
GSM	33.26	33.36	33.34	30.47	30.35	30.08
GPRS class 8	33.28	33.37	33.36	30.48	30.37	30.09
GPRS class 10	33.02	33.15	33.17	30.49	30.20	29.91
EGPRS class 8	27.00	26.99	27.00	26.00	25.99	25.75
EGPRS class 10	26.95	26.98	27.00	25.98	25.79	25.56

Conducted Power (*Unit: dBm)						
Band	WCDMA Band V			WCDMA Band II		
Channel	4132	4182	4233	9262	9400	9538
Frequency	826.4	836.4	846.6	1852.4	1880.0	1907.6
RMC 12.2K	24.35	24.37	24.50	24.40	24.49	24.31
HSDPA Subtest-1	24.32	24.34	24.45	24.33	24.48	24.26
HSDPA Subtest-2	24.30	24.32	24.44	24.22	24.39	24.19
HSDPA Subtest-3	23.99	24.01	24.06	23.98	24.06	23.89
HSDPA Subtest-4	23.77	23.86	23.89	23.94	23.98	23.84
HSUPA Subtest-1	23.70	23.75	24.13	24.12	24.23	24.17
HSUPA Subtest-2	23.00	23.01	23.11	22.98	23.07	22.89
HSUPA Subtest-3	23.05	23.12	23.60	23.03	23.13	23.09
HSUPA Subtest-4	23.01	23.10	23.02	23.01	23.00	23.02
HSUPA Subtest-5	24.33	24.33	24.41	24.33	24.42	24.21

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m

3 Test Result

3.1 Effective Radiated Power and Effective Isotropic Radiated Power Measurement

3.1.1 Description of the ERP/EIRP Measurement

The substitution method, in ANSI / TIA / EIA-603-C-2004, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. The ERP of mobile transmitters must not exceed 7 Watts and the EIRP of mobile transmitters are limited to 2 Watts.

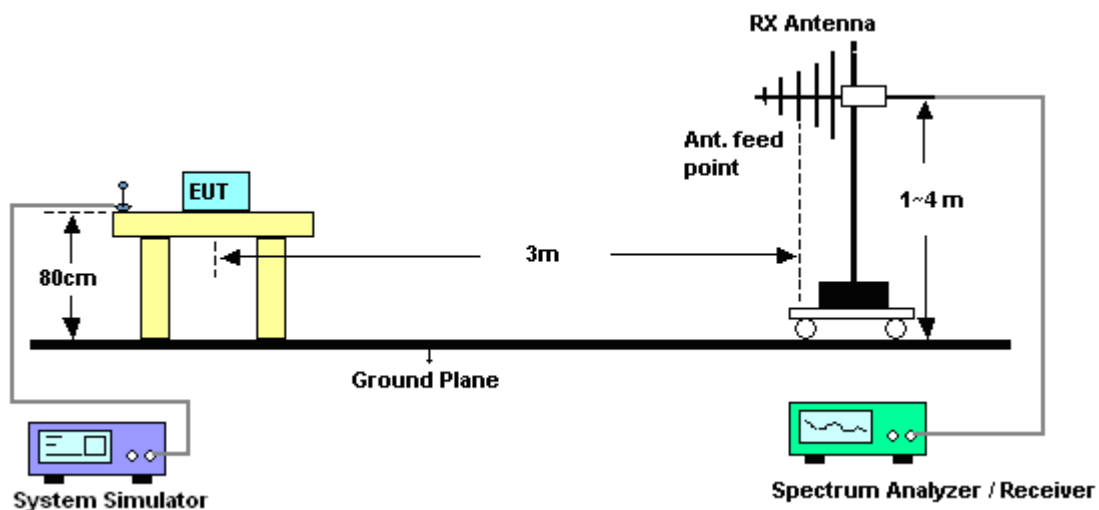
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 1MHz, VBW= 3MHz for GSM, RBW= 100 kHz, VBW= 300 kHz, used channel power option with bandwidth=5MHz for WCDMA, and RMS detector settings per KDB 971168 D01.
2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (substitution antenna) at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$.

3.1.4 Test Setup



3.1.5 Test Result of ERP

GSM850 (GPRS class 8) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-2.18	31.54	27.21	0.53
836.4	-1.86	32.04	28.03	0.64
848.8	-0.07	32.59	30.37	1.09
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-9.84	32.93	20.94	0.12
836.4	-8.68	32.82	21.99	0.16
848.8	-8.35	33.62	23.12	0.21

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

GSM850 (EDGE class 8) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-7.40	31.54	21.99	0.16
836.4	-7.50	32.04	22.39	0.17
848.8	-6.93	32.59	23.51	0.22
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
824.2	-16.73	32.93	14.05	0.03
836.4	-15.35	32.82	15.32	0.03
848.8	-14.13	33.62	17.34	0.05

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

WCDMA Band V (RMC 12.2Kbps) Radiated Power ERP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	-10.33	31.44	18.96	0.08
836.4	-9.84	32.04	20.05	0.10
846.6	-9.67	32.63	20.81	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)
826.4	-18.09	32.78	12.54	0.02
836.4	-16.85	32.82	13.82	0.02
846.6	-17.83	33.4	13.42	0.02

* ERP = LVL (dBm) + Correction Factor (dB) – 2.15

3.1.6 Test Result of EIRP

GSM1900 (GPRS class 10) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-14.71	43.69	28.98	0.79
1880.0	-14.66	44.79	30.13	1.03
1909.8	-15.41	43.59	28.18	0.66
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-21.94	45.72	23.78	0.24
1880.0	-21.44	46.78	25.34	0.34
1909.8	-22.24	46.77	24.53	0.28

* EIRP = LVL (dBm) + Correction Factor (dB)

GSM1900 (EDGE class 8) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-17.84	43.69	25.85	0.38
1880.0	-17.91	44.79	26.88	0.49
1909.8	-18.80	43.59	24.79	0.30
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1850.2	-23.43	45.72	22.29	0.17
1880.0	-25.19	46.78	21.59	0.14
1909.8	-25.68	46.77	21.09	0.13

* EIRP = LVL (dBm) + Correction Factor (dB)

WCDMA Band II (RMC 12.2Kbps) Radiated Power EIRP				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	-20.29	43.69	23.40	0.22
1880.0	-20.74	44.79	24.05	0.25
1907.6	-21.98	43.59	21.61	0.14
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1852.4	-27.87	45.72	17.85	0.06
1880.0	-27.19	46.78	19.59	0.09
1907.6	-27.31	46.77	19.46	0.09

* EIRP = LVL (dBm) + Correction Factor (dB)

3.2 Field Strength of Spurious Radiation Measurement

3.2.1 Description of Field Strength of Spurious Radiated Measurement

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.

3.2.2 Measuring Instruments

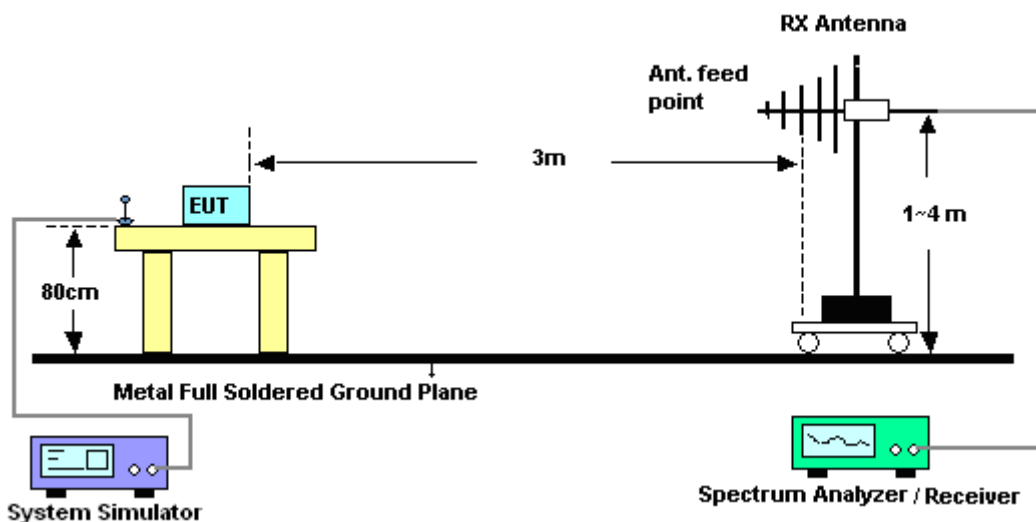
The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

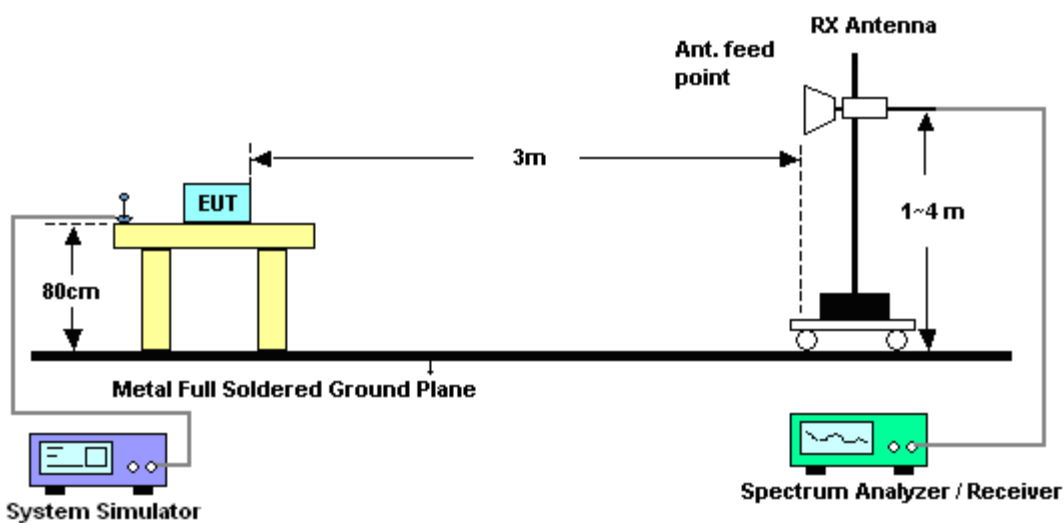
1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving 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. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
11. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$
12. $\text{EIRP (dBm)} = \text{S.G. Power} - \text{Tx Cable Loss} + \text{Tx Antenna Gain}$
13. $\text{ERP (dBm)} = \text{EIRP} - 2.15$

3.2.4 Test Setup

For radiated emissions from 30MHz to 1GHz



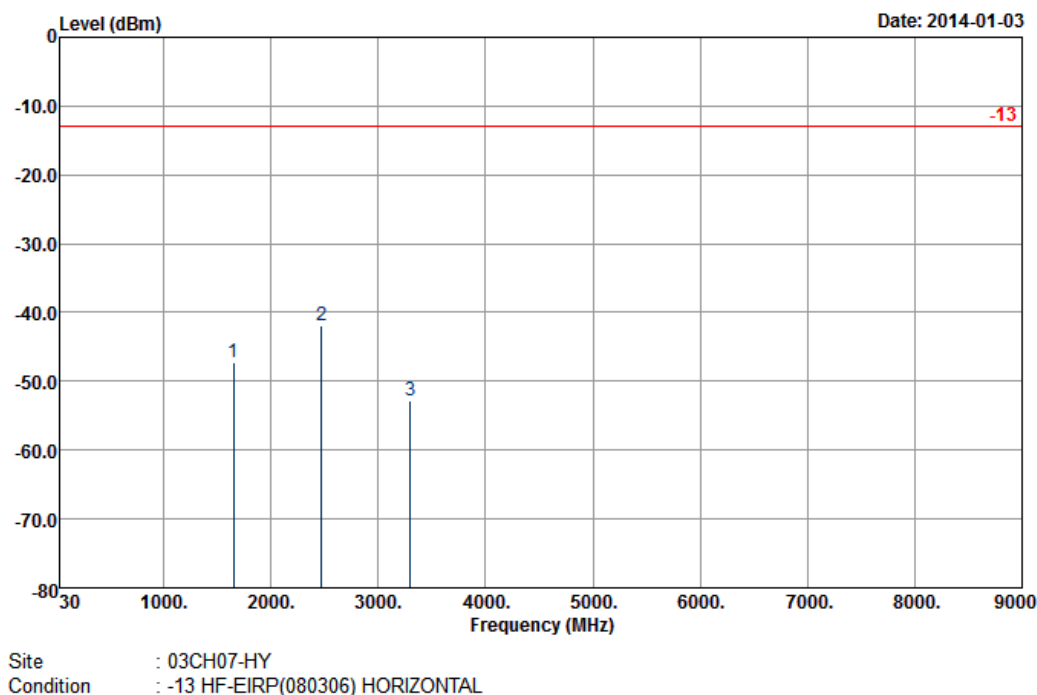
For radiated emissions above 1GHz



3.2.5 Test Result of Field Strength of Spurious Radiated

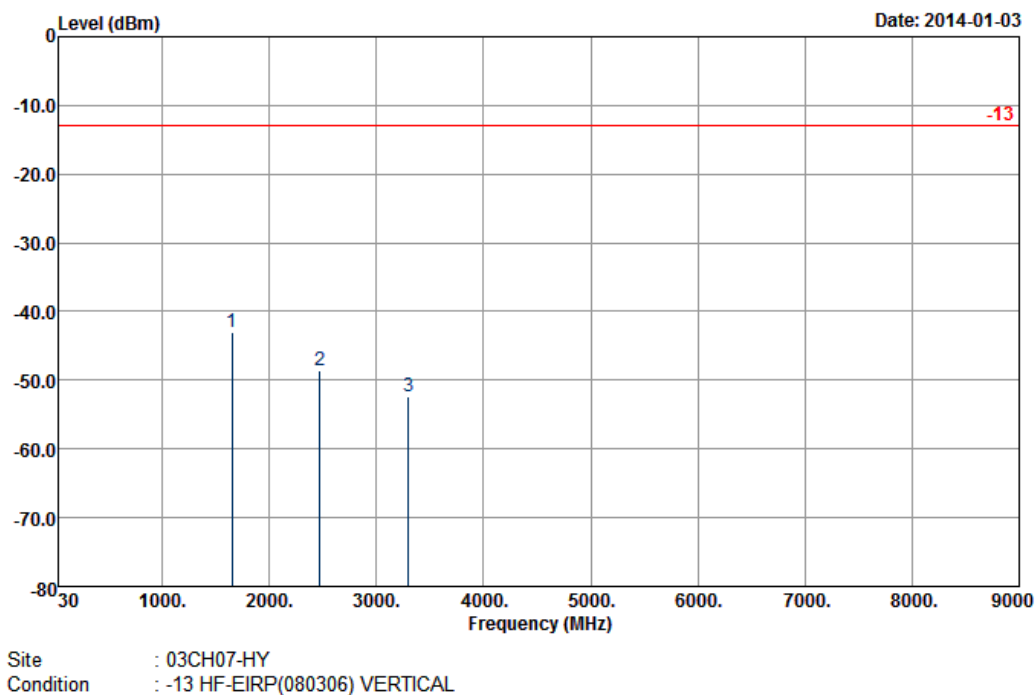
<Low Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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
1649	-47.20	-13	-34.20	-56.42	-51.2	1.53	5.53	H	Pass
2474	-41.81	-13	-28.81	-55.63	-45.9	2.06	6.15	H	Pass
3298	-52.75	-13	-39.75	-67.35	-58.2	2.48	7.93	H	Pass

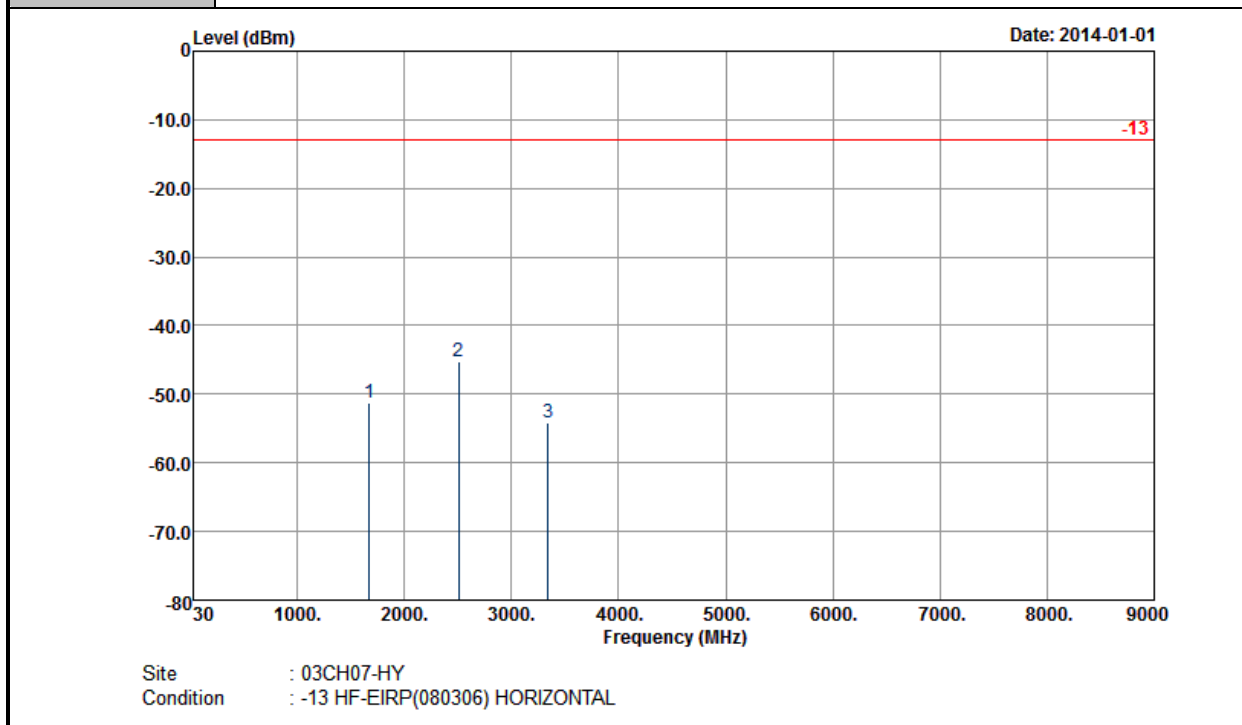
Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-42.90	-13	-29.90	-54.24	-46.9	1.53	5.53	V	Pass
2474	-48.61	-13	-35.61	-62.3	-52.7	2.06	6.15	V	Pass
3298	-52.45	-13	-39.45	-68.26	-57.9	2.48	7.93	V	Pass

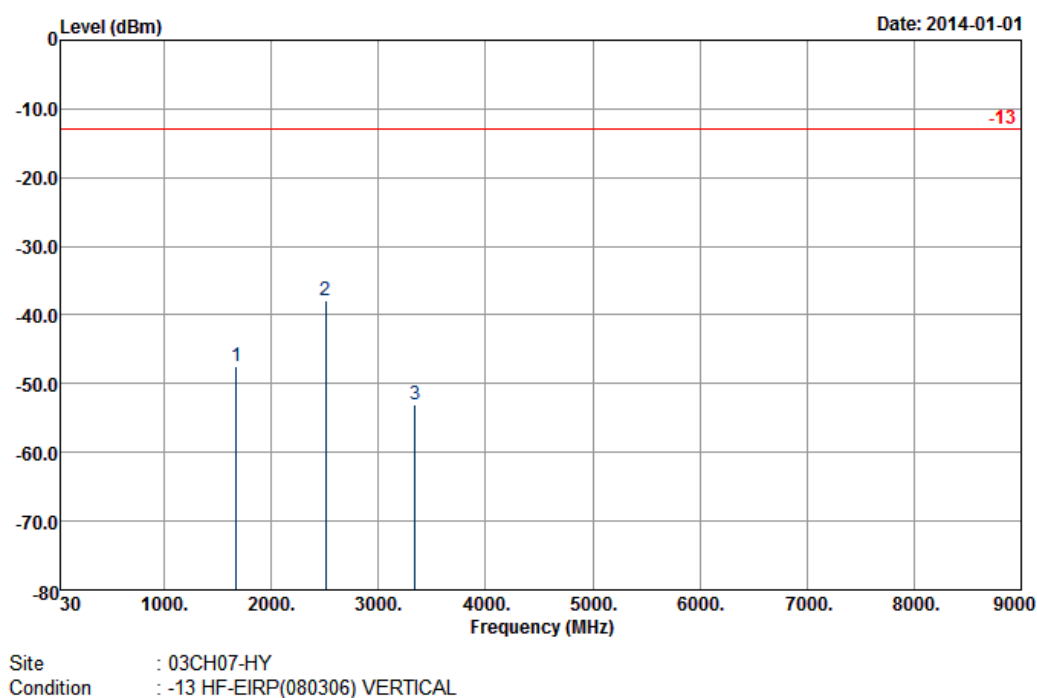
<Middle Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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	-51.33	-13	-38.33	-60.45	-55.2	1.62	5.49	H	Pass
2509	-45.18	-13	-32.18	-58.55	-49.3	2.1	6.22	H	Pass
3345	-54.16	-13	-41.16	-68.45	-59.2	3.03	8.07	H	Pass

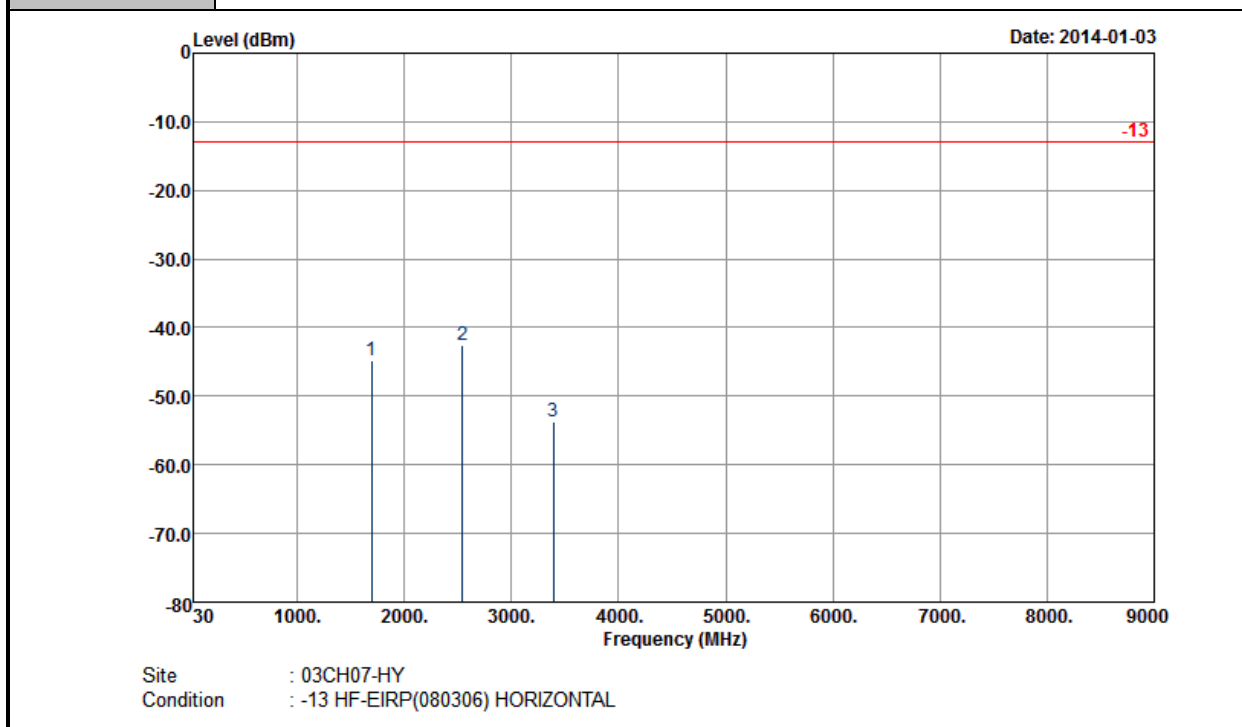
Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-47.43	-13	-34.43	-58.75	-51.3	1.62	5.49	V	Pass
2509	-37.98	-13	-24.98	-52.29	-42.1	2.1	6.22	V	Pass
3345	-53.06	-13	-40.06	-68.63	-58.1	3.03	8.07	V	Pass

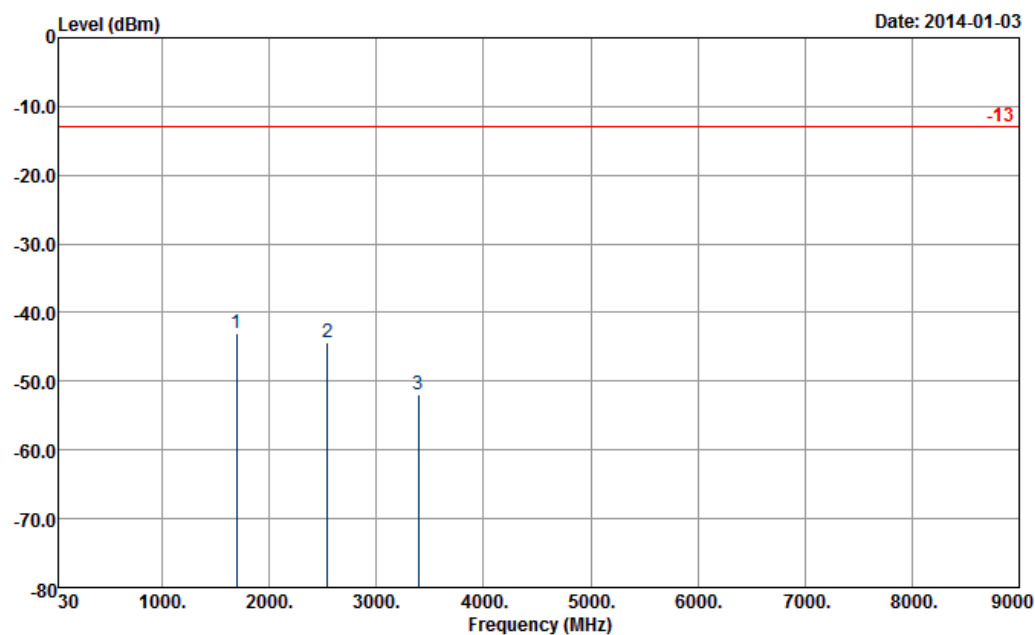
<High Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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
1696	-44.72	-13	-31.72	-53.73	-48.6	1.57	5.45	H	Pass
2544	-42.54	-13	-29.54	-55.9	-46.8	2.02	6.28	H	Pass
3393	-53.60	-13	-40.60	-68.2	-59.5	2.3	8.20	H	Pass

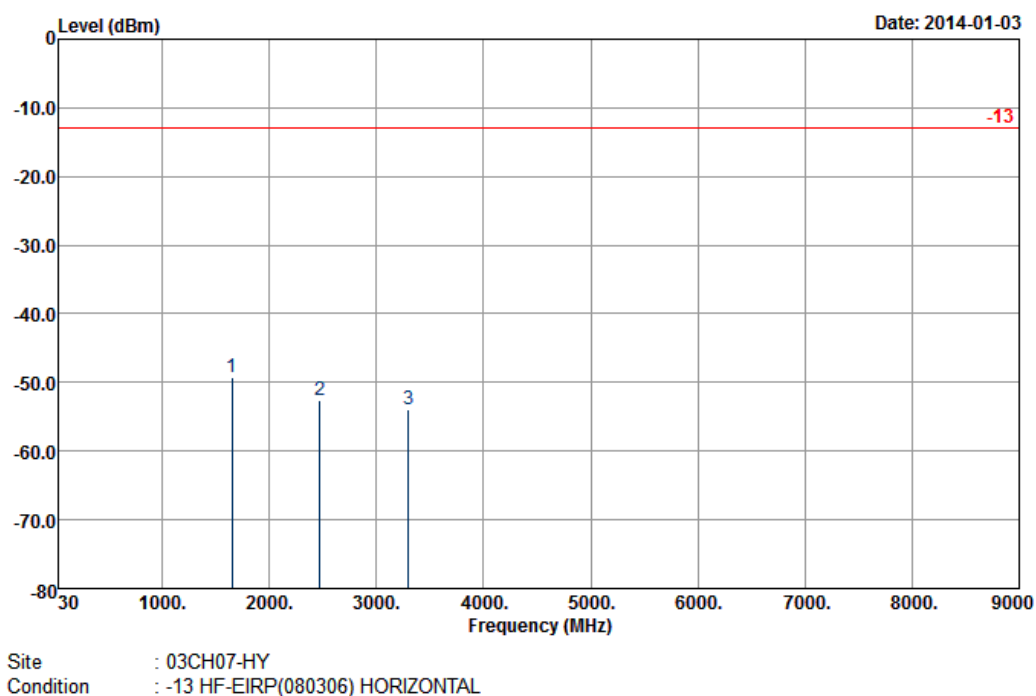
Band :	GSM850	Temperature :	21~23°C
Test Mode :	GPRS class 8 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1696	-42.92	-13	-29.92	-54.53	-46.8	1.57	5.45	V	Pass
2544	-44.24	-13	-31.24	-58.3	-48.5	2.02	6.28	V	Pass
3393	-52.00	-13	-39.00	-67.99	-57.9	2.3	8.20	V	Pass

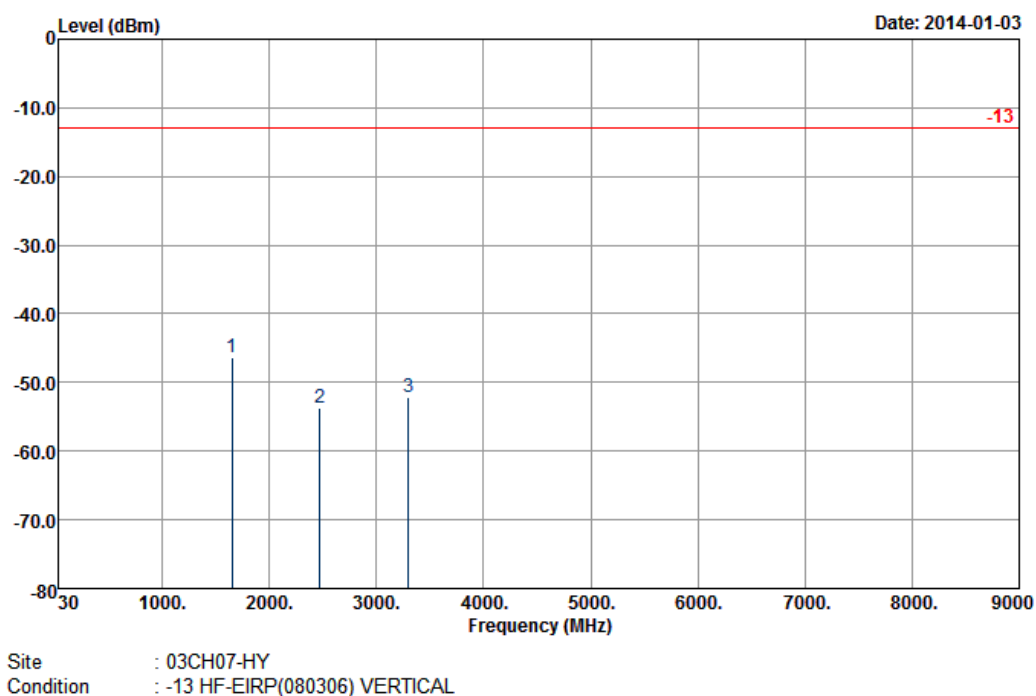
<Low Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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
1649	-49.20	-13	-36.20	-58.31	-53.2	1.53	5.53	H	Pass
2474	-52.61	-13	-39.61	-66.46	-56.7	2.06	6.15	H	Pass
3298	-53.85	-13	-40.85	-68.24	-59.3	2.48	7.93	H	Pass

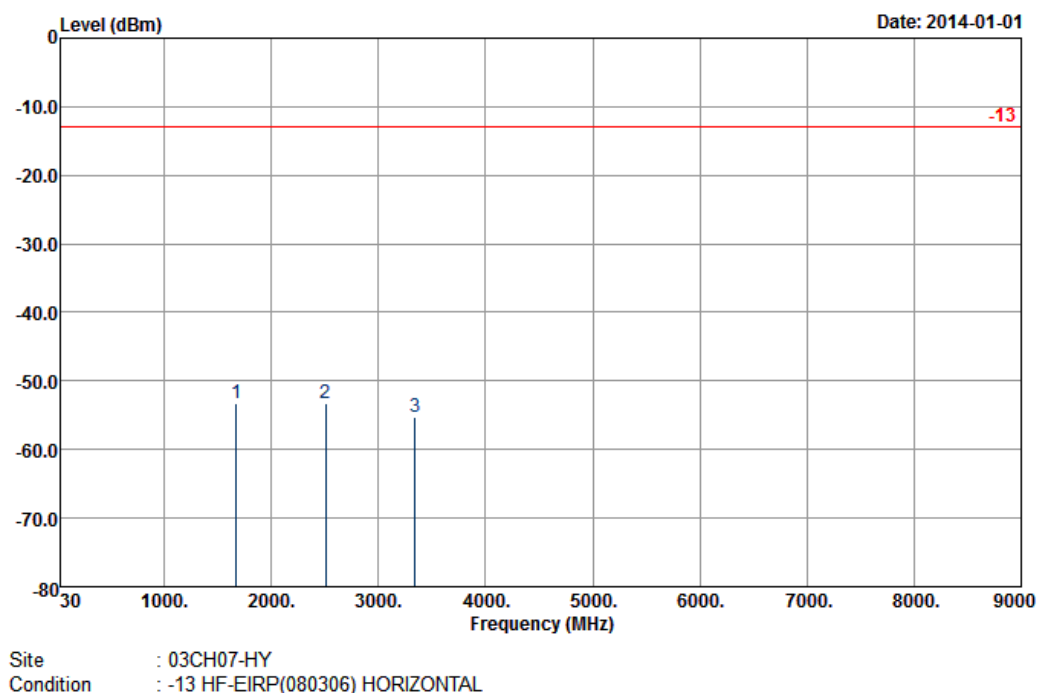
Band :	GSM850	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-46.40	-13	-33.40	-57.73	-50.4	1.53	5.53	V	Pass
2474	-53.71	-13	-40.71	-67.43	-57.8	2.06	6.15	V	Pass
3298	-52.15	-13	-39.15	-68.12	-57.6	2.48	7.93	V	Pass

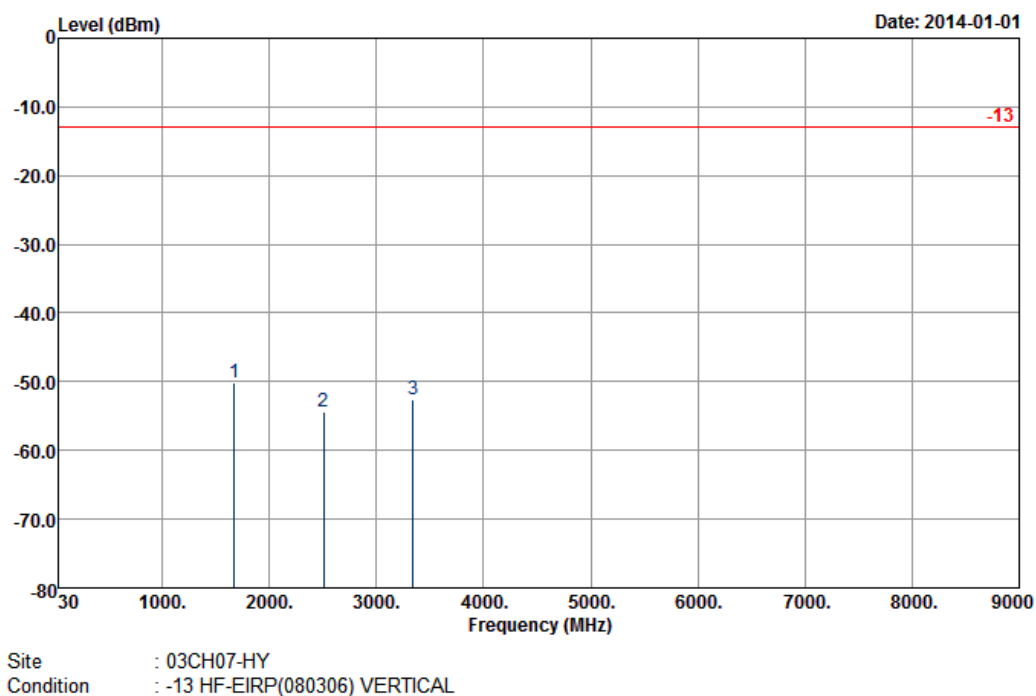
<Middle Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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	-53.23	-13	-40.23	-62.25	-57.1	1.62	5.49	H	Pass
2509	-53.18	-13	-40.18	-66.69	-57.3	2.1	6.22	H	Pass
3345	-55.26	-13	-42.26	-69.33	-60.3	3.03	8.07	H	Pass

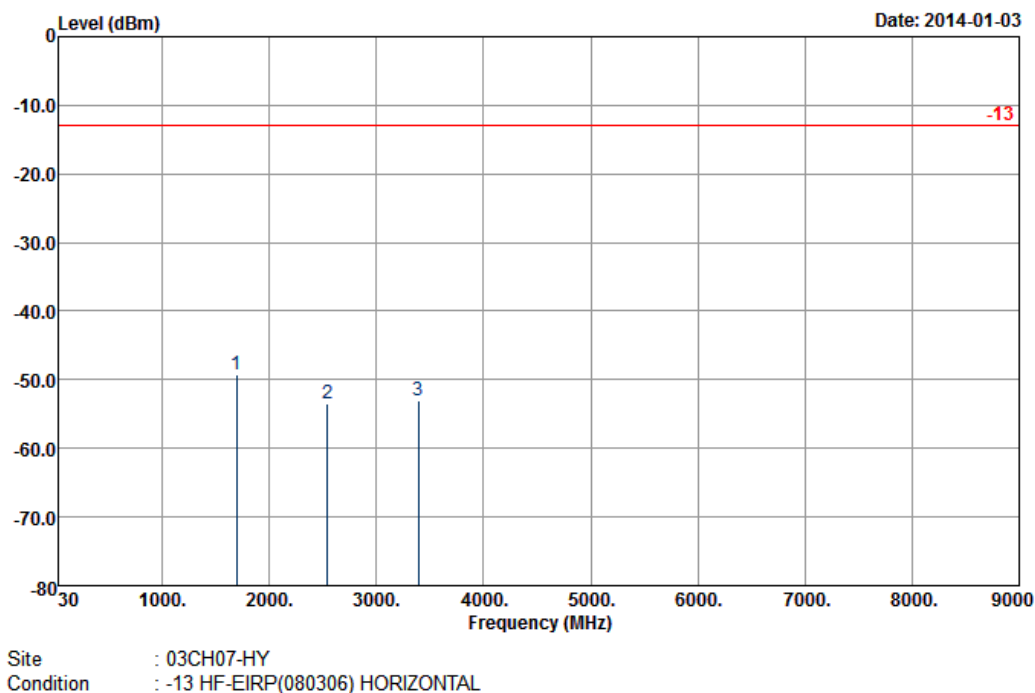
Band :	GSM850	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-50.23	-13	-37.23	-61.8	-54.1	1.62	5.49	V	Pass
2509	-54.48	-13	-41.48	-68.48	-58.6	2.1	6.22	V	Pass
3345	-52.56	-13	-39.56	-68.66	-57.6	3.03	8.07	V	Pass

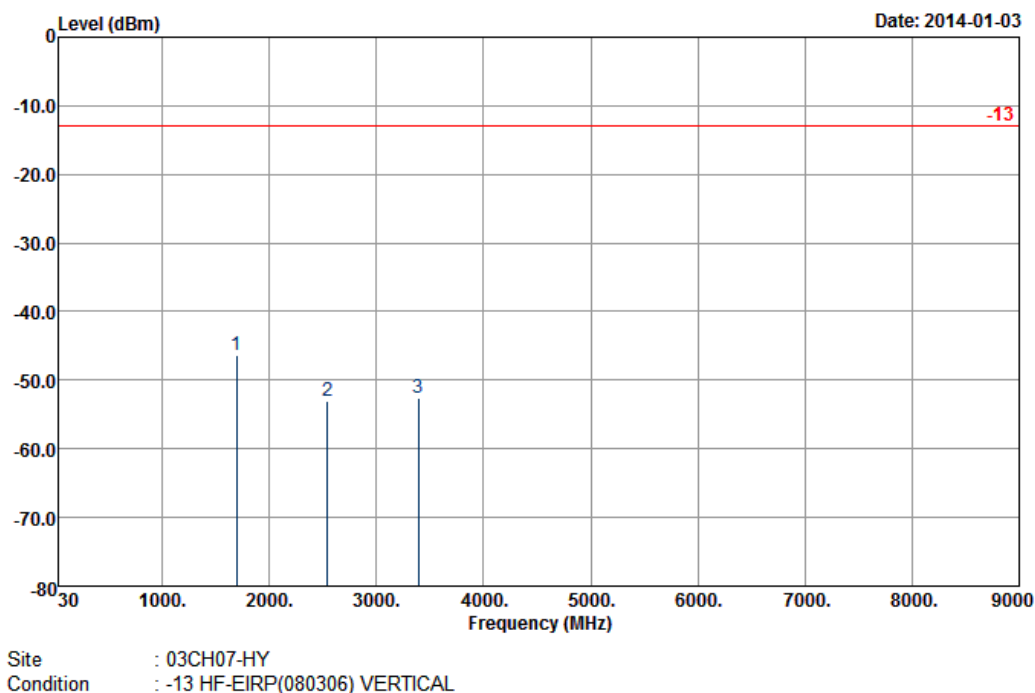
<High Channel>

Band :	GSM850	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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
1696	-49.22	-13	-36.22	-58.47	-53.1	1.57	5.45	H	Pass
2544	-53.54	-13	-40.54	-67.05	-57.8	2.02	6.28	H	Pass
3393	-53.00	-13	-40.00	-67.47	-58.9	2.3	8.20	H	Pass

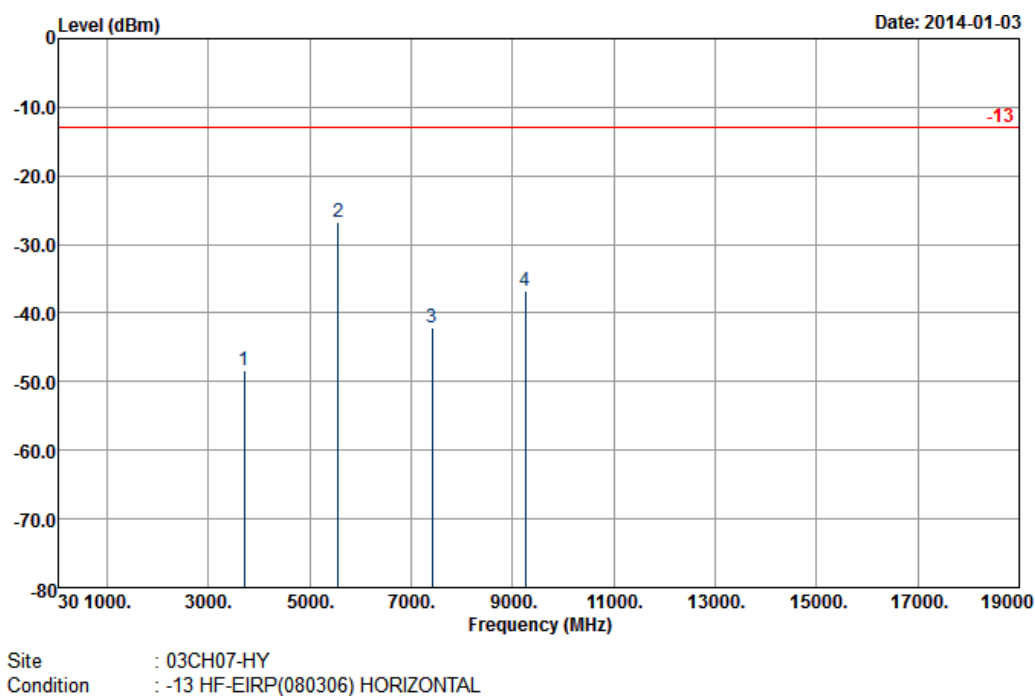
Band :	GSM850	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1696	-46.32	-13	-33.32	-57.65	-50.2	1.57	5.45	V	Pass
2544	-52.94	-13	-39.94	-67.34	-57.2	2.02	6.28	V	Pass
3393	-52.60	-13	-39.60	-68.43	-58.5	2.3	8.20	V	Pass

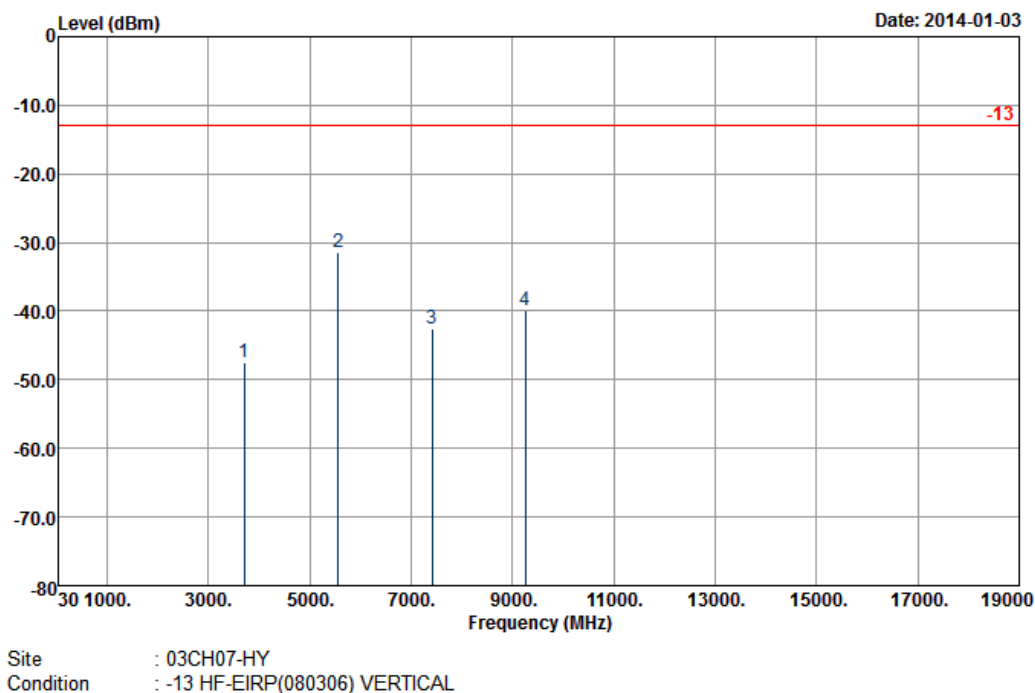
<Low Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 10 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-48.35	-13	-35.35	-63.67	-54.5	2.59	8.74	H	Pass
5553	-26.64	-13	-13.64	-47.54	-34.3	3.04	10.70	H	Pass
7405	-42.16	-13	-29.16	-69.81	-50.9	3.28	12.02	H	Pass
9256	-36.80	-13	-23.80	-63.66	-46.1	3.9	13.20	H	Pass

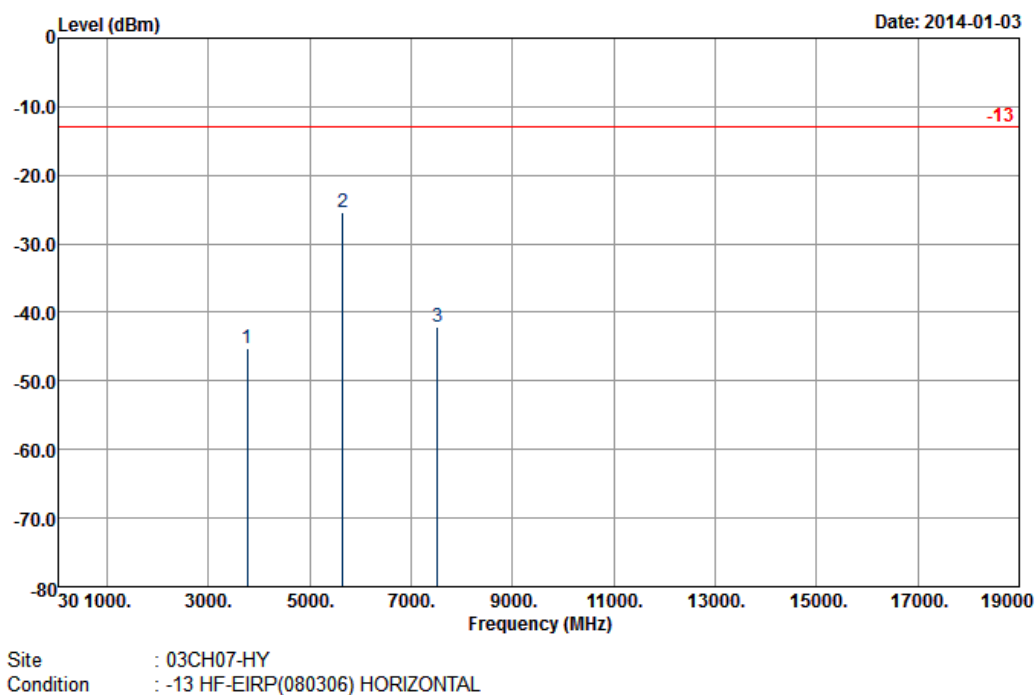
Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 10 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-47.45	-13	-34.45	-63.64	-53.6	2.59	8.74	V	Pass
5553	-31.44	-13	-18.44	-51.82	-39.1	3.04	10.70	V	Pass
7405	-42.46	-13	-29.46	-69.96	-51.2	3.28	12.02	V	Pass
9256	-39.90	-13	-26.90	-66.12	-49.2	3.9	13.20	V	Pass

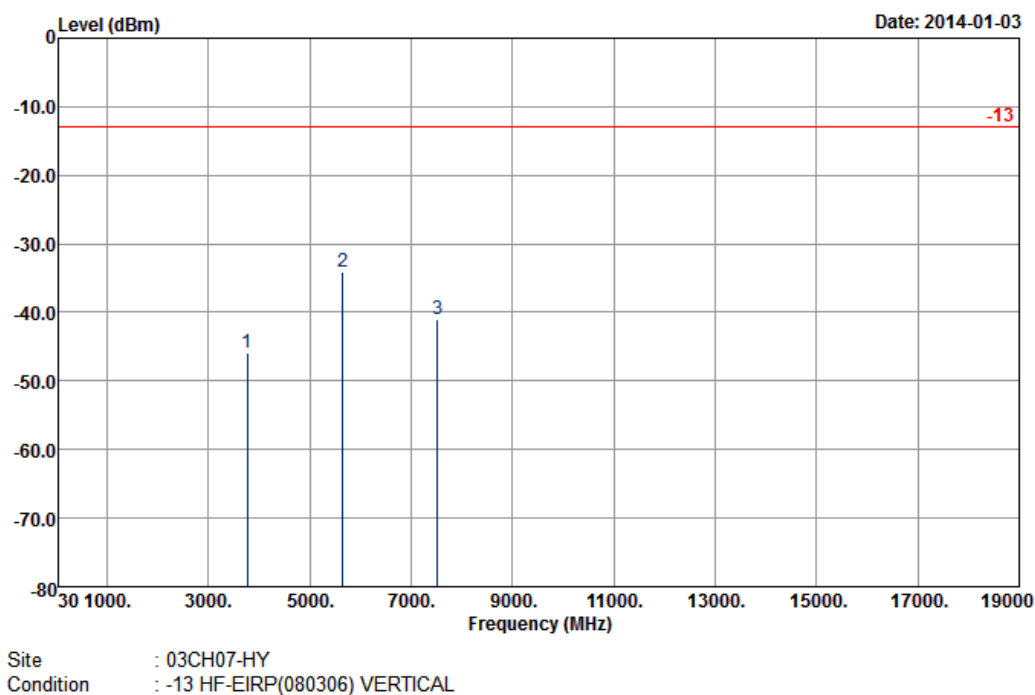
<Middle Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 10 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-45.20	-13	-32.20	-60.68	-51.5	2.51	8.81	H	Pass
5640	-25.39	-13	-12.39	-46.31	-33.1	2.99	10.70	H	Pass
7520	-42.17	-13	-29.17	-69.53	-50.7	3.59	12.12	H	Pass

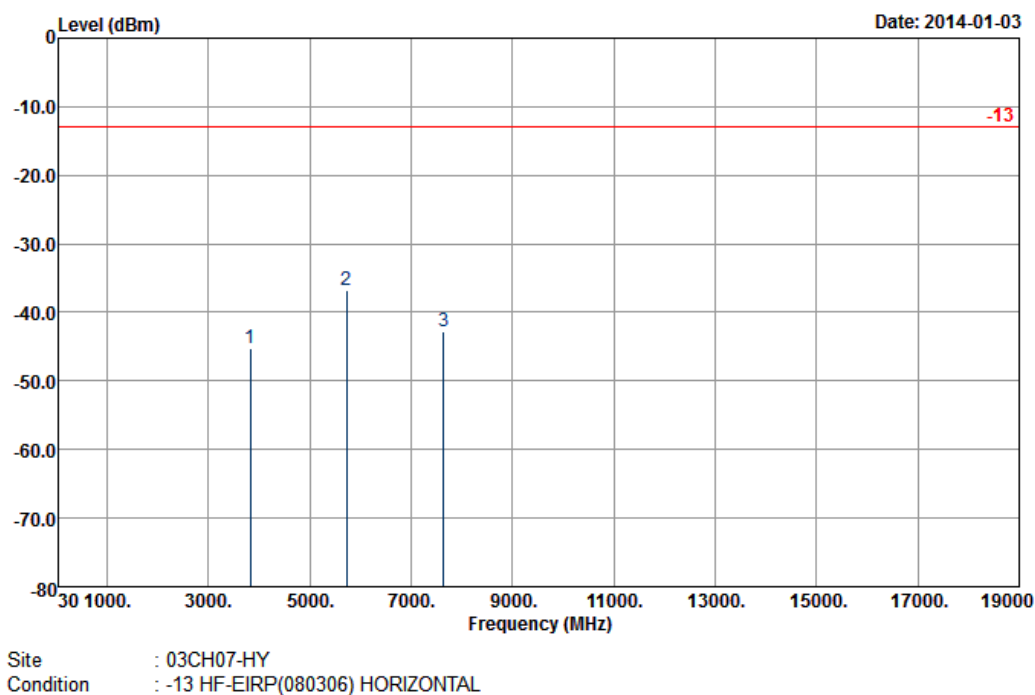
Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 10 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-46.00	-13	-33.00	-62.51	-52.3	2.51	8.81	V	Pass
5640	-34.09	-13	-21.09	-54.74	-41.8	2.99	10.70	V	Pass
7520	-41.07	-13	-28.07	-68.32	-49.6	3.59	12.12	V	Pass

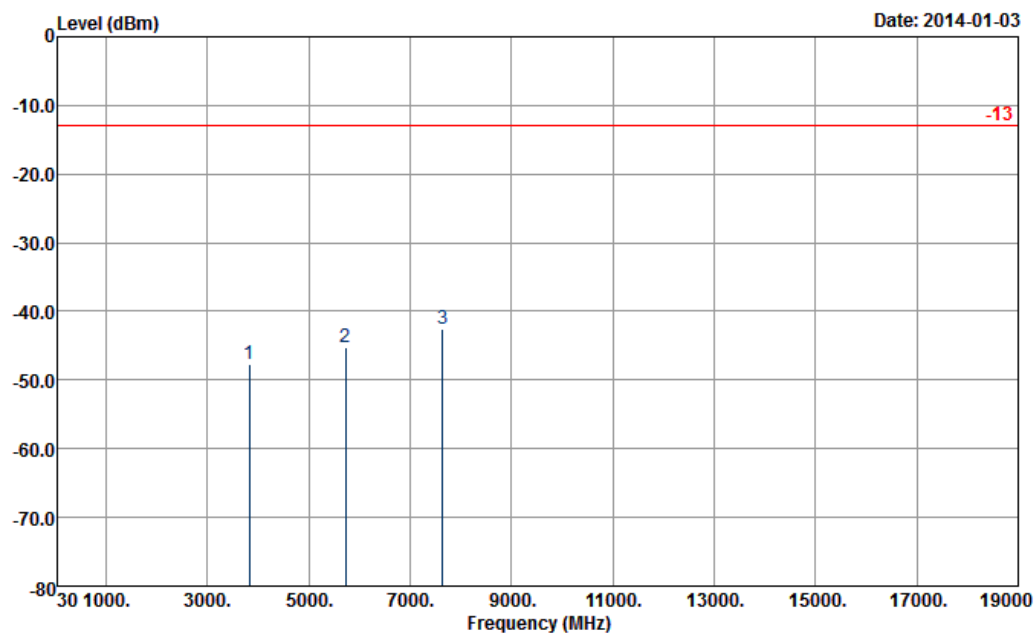
<High Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 10 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3817	-45.19	-13	-32.19	-61.49	-51.6	2.47	8.88	H	Pass
5726	-36.80	-13	-23.80	-58.37	-44.5	3	10.70	H	Pass
7635	-42.82	-13	-29.82	-69.19	-51.6	3.43	12.21	H	Pass

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	GPRS class 10 Link (GMSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

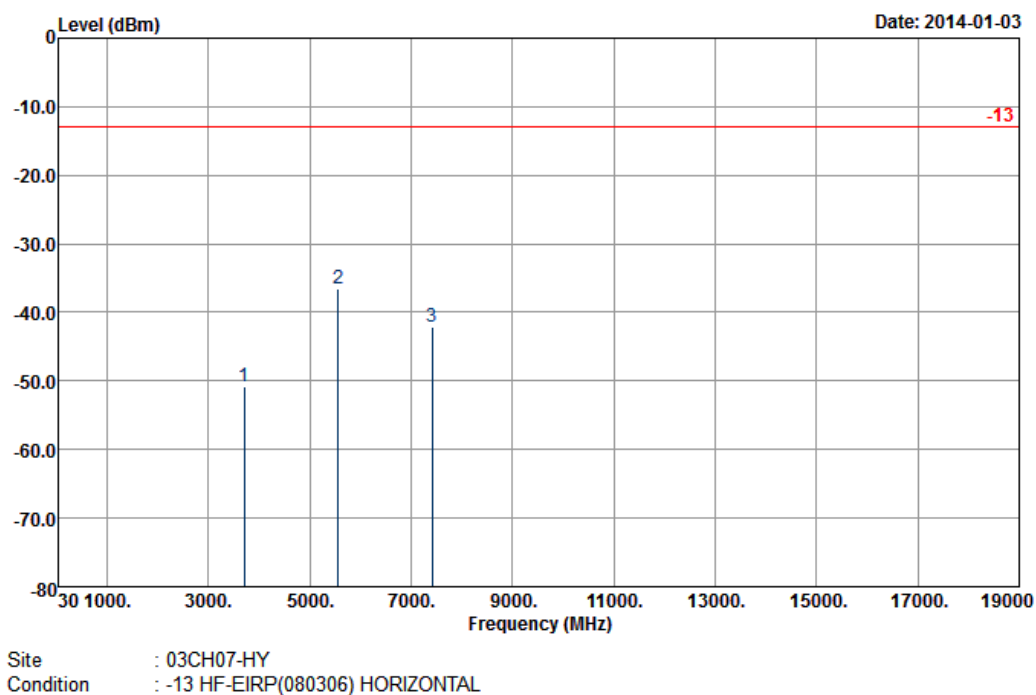


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3817	-47.69	-13	-34.69	-64.37	-54.1	2.47	8.88	V	Pass
5726	-45.30	-13	-32.30	-66.44	-53	3	10.70	V	Pass
7635	-42.62	-13	-29.62	-69.22	-51.4	3.43	12.21	V	Pass

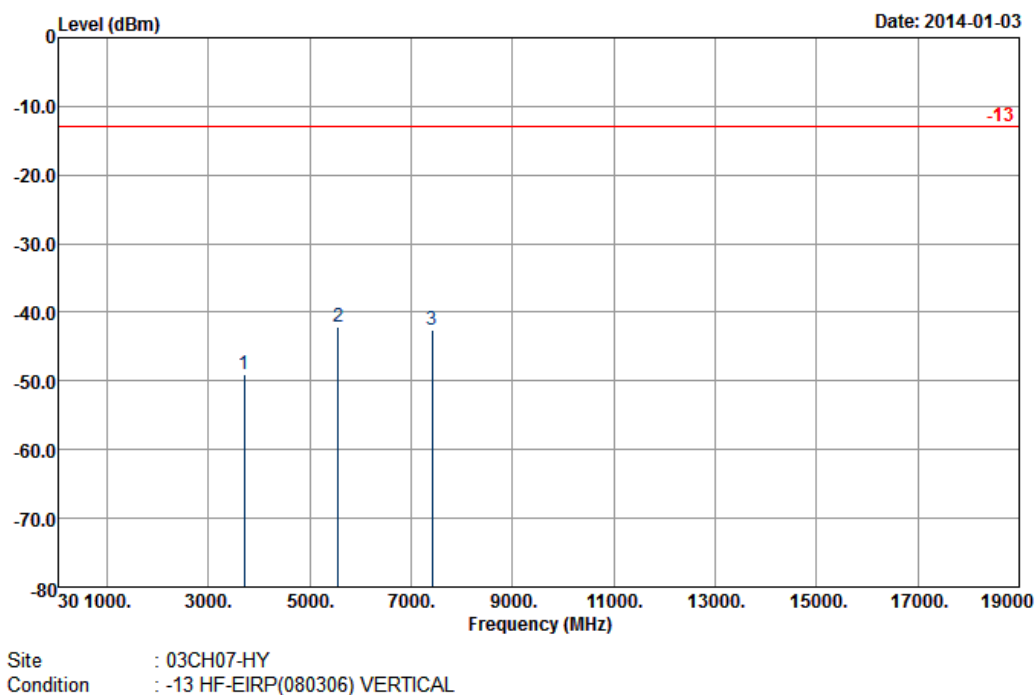
<Low Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-50.75	-13	-37.75	-66.52	-56.9	2.59	8.74	H	Pass
5553	-36.64	-13	-23.64	-57.89	-44.3	3.04	10.70	H	Pass
7405	-42.06	-13	-29.06	-69.74	-50.8	3.28	12.02	H	Pass

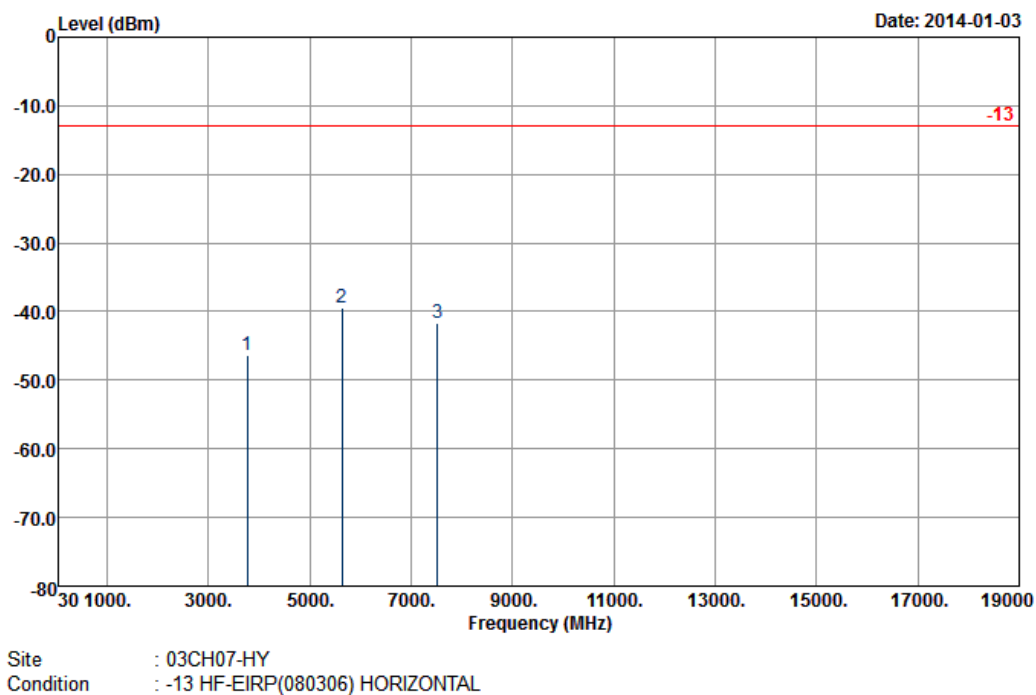
Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3702	-48.95	-13	-35.95	-65.39	-55.1	2.59	8.74	V	Pass
5553	-42.04	-13	-29.04	-62.41	-49.7	3.04	10.70	V	Pass
7405	-42.66	-13	-29.66	-69.98	-51.4	3.28	12.02	V	Pass

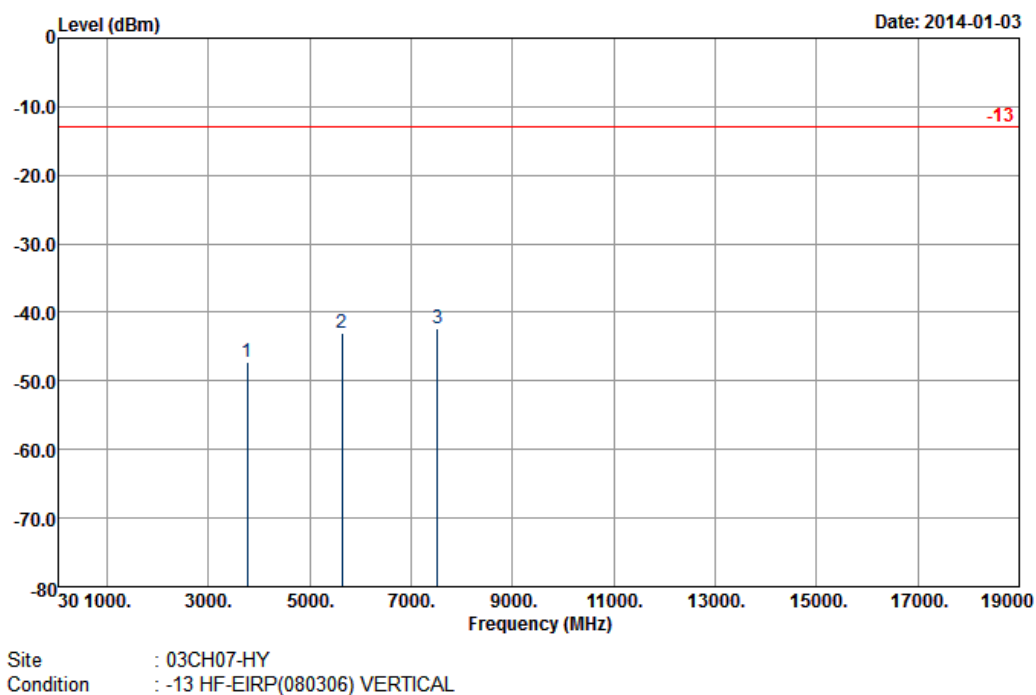
<Middle Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-46.30	-13	-33.30	-61.79	-52.6	2.51	8.81	H	Pass
5636	-39.39	-13	-26.39	-60.43	-47.1	2.99	10.70	H	Pass
7520	-41.67	-13	-28.67	-69.2	-50.2	3.59	12.12	H	Pass

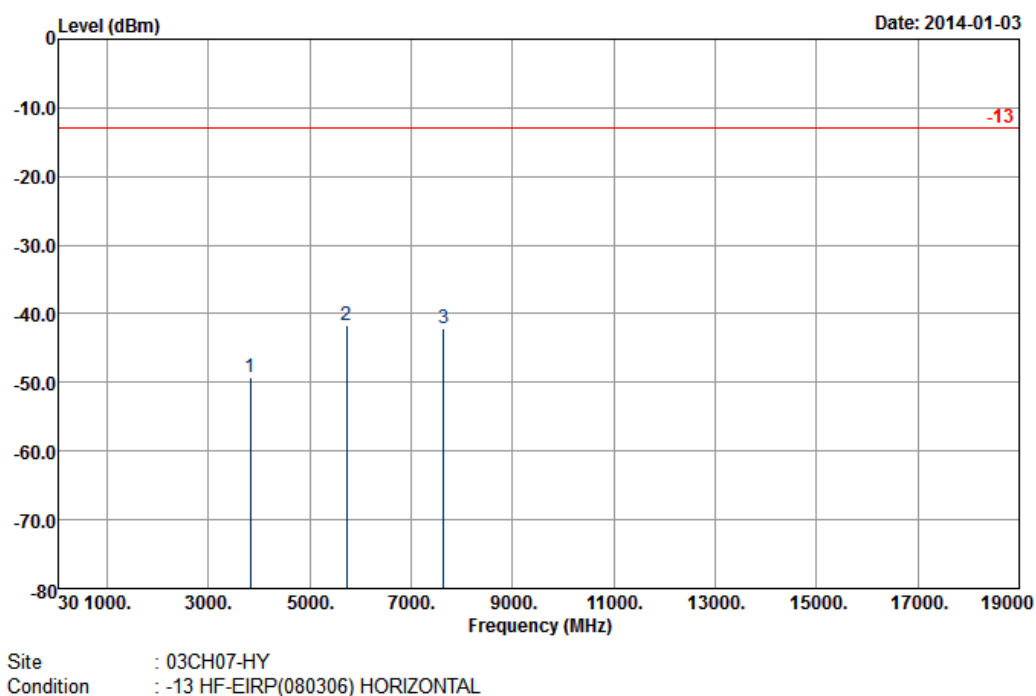
Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-47.30	-13	-34.30	-63.81	-53.6	2.51	8.81	V	Pass
5636	-43.09	-13	-30.09	-63.95	-50.8	2.99	10.70	V	Pass
7520	-42.27	-13	-29.27	-69.68	-50.8	3.59	12.12	V	Pass

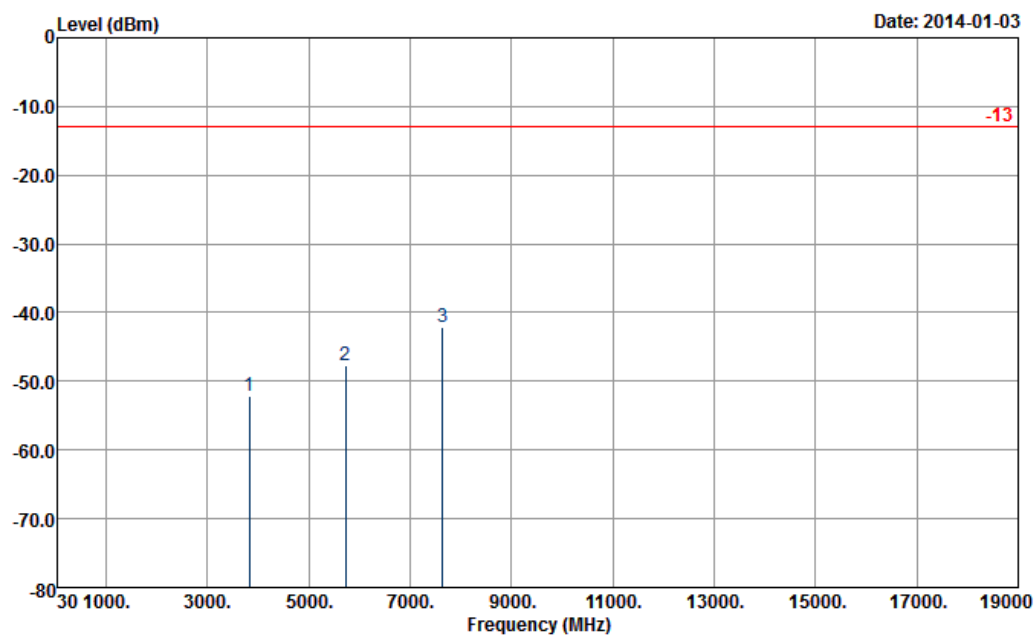
<High Channel>

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3817	-49.29	-13	-36.29	-65.13	-55.7	2.47	8.88	H	Pass
5730	-41.60	-13	-28.60	-62.94	-49.3	3	10.70	H	Pass
7639	-42.02	-13	-29.02	-68.52	-50.8	3.43	12.21	H	Pass

Band :	GSM1900	Temperature :	21~23°C
Test Mode :	EDGE class 8 Link (8PSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		

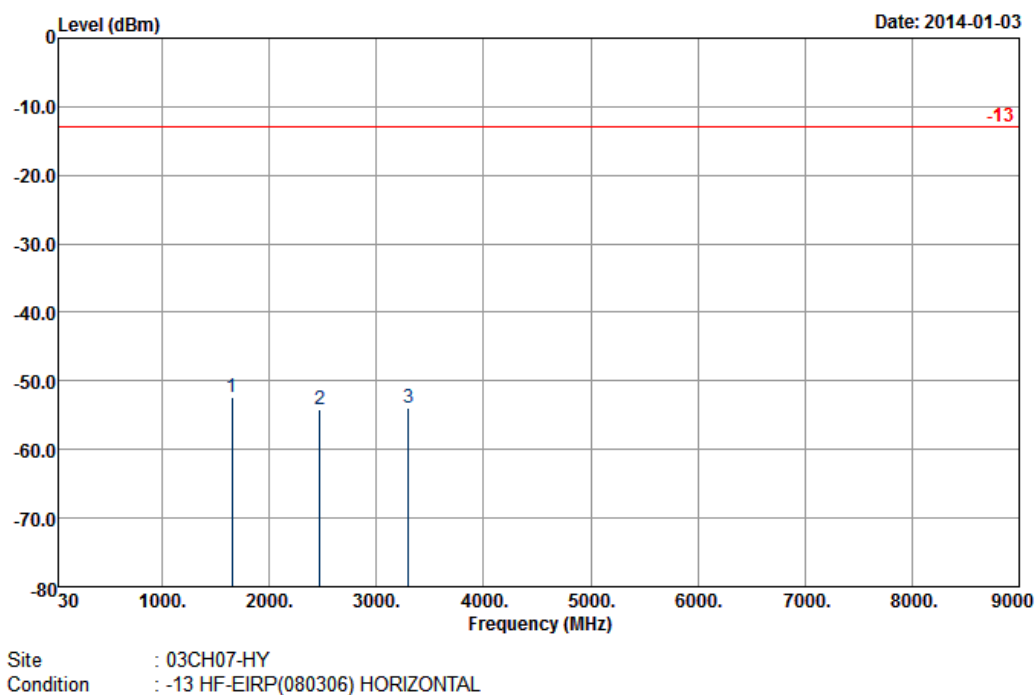


Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) VERTICAL

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
3817	-52.19	-13	-39.19	-68.61	-58.6	2.47	8.88	V	Pass
5730	-47.60	-13	-34.60	-68.52	-55.3	3	10.70	V	Pass
7639	-42.12	-13	-29.12	-68.41	-50.9	3.43	12.21	V	Pass

<Low Channel>

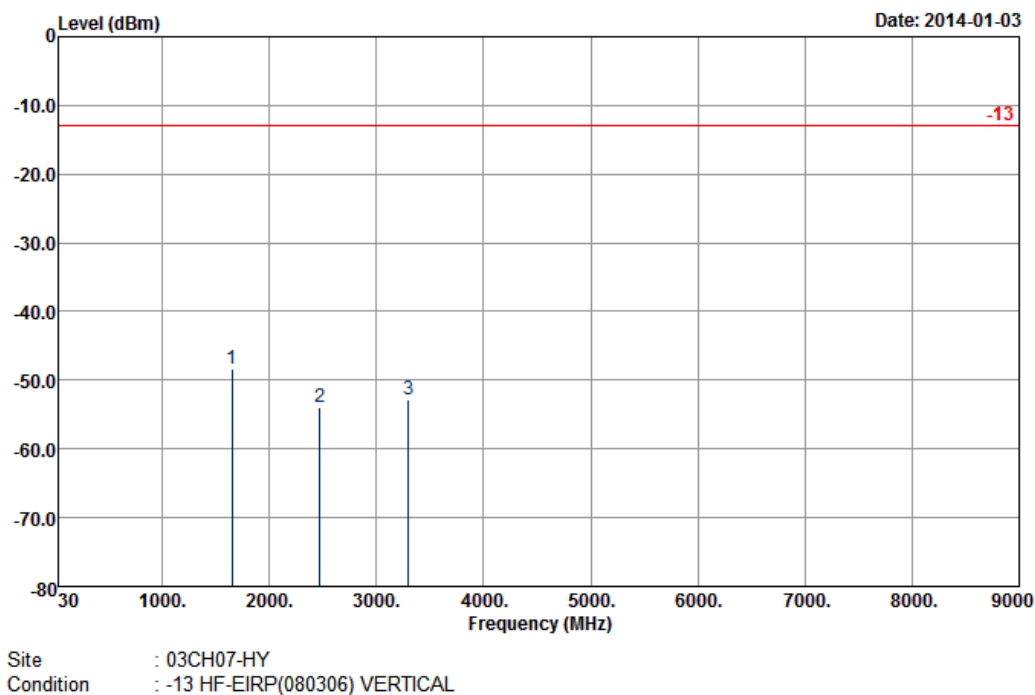
Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-52.30	-13	-39.30	-61.31	-56.3	1.53	5.53	H	Pass
2474	-54.11	-13	-41.11	-67.65	-58.2	2.06	6.15	H	Pass
3298	-53.85	-13	-40.85	-68.06	-59.3	2.48	7.93	H	Pass



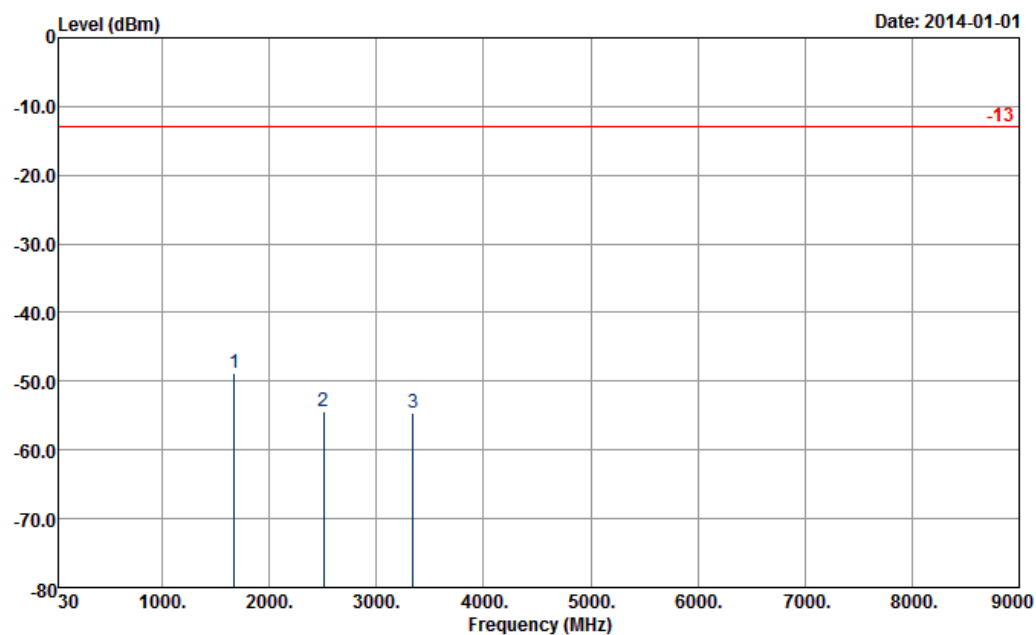
Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1649	-48.30	-13	-35.30	-59.57	-52.3	1.53	5.53	V	Pass
2474	-53.91	-13	-40.91	-67.82	-58	2.06	6.15	V	Pass
3298	-52.75	-13	-39.75	-68.5	-58.2	2.48	7.93	V	Pass

<Middle Channel>

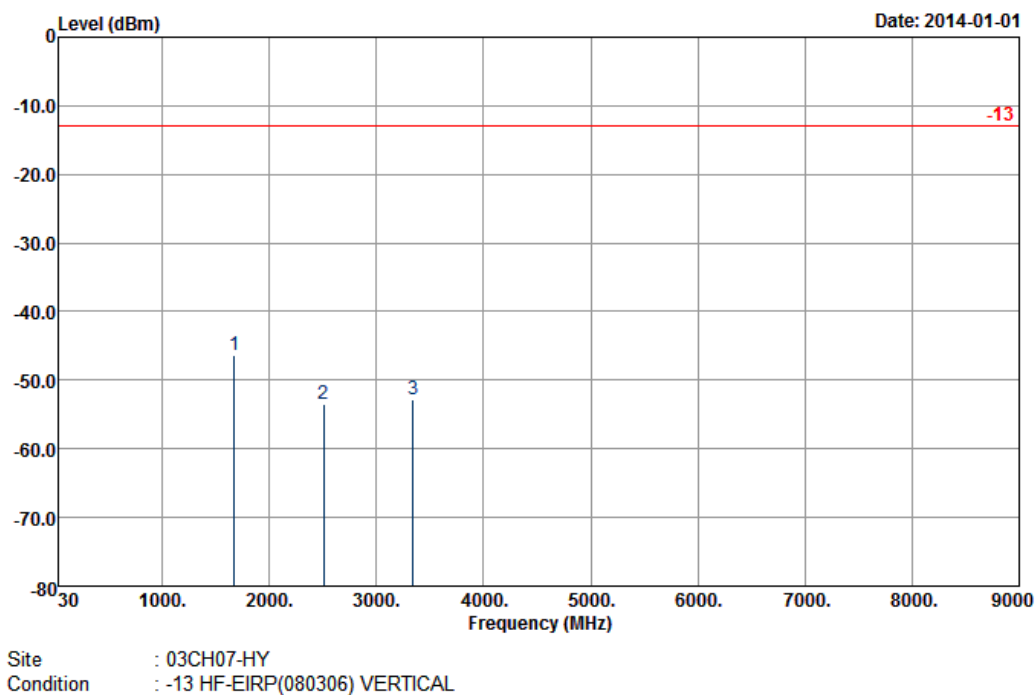
Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



Site : 03CH07-HY
Condition : -13 HF-EIRP(080306) HORIZONTAL

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	-48.73	-13	-35.73	-58.62	-52.6	1.62	5.49	H	Pass
2509	-54.28	-13	-41.28	-67.62	-58.4	2.1	6.22	H	Pass
3345	-54.56	-13	-41.56	-68.66	-59.6	3.03	8.07	H	Pass

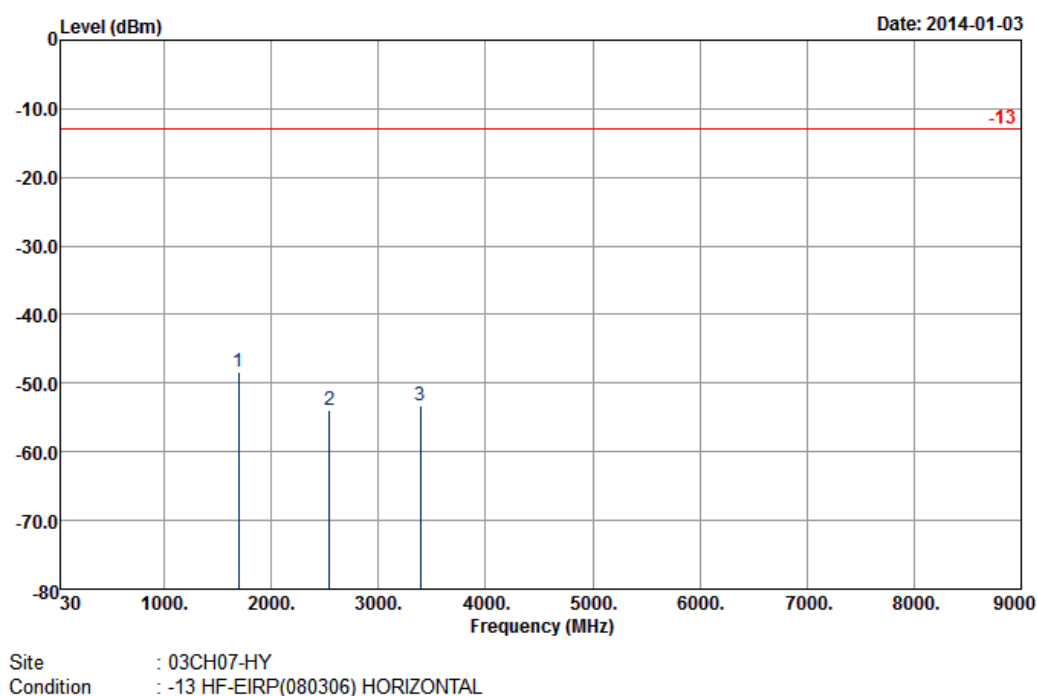
Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-46.33	-13	-33.33	-57.84	-50.2	1.62	5.49	V	Pass
2509	-53.38	-13	-40.38	-67.62	-57.5	2.1	6.22	V	Pass
3345	-52.76	-13	-39.76	-68.76	-57.8	3.03	8.07	V	Pass

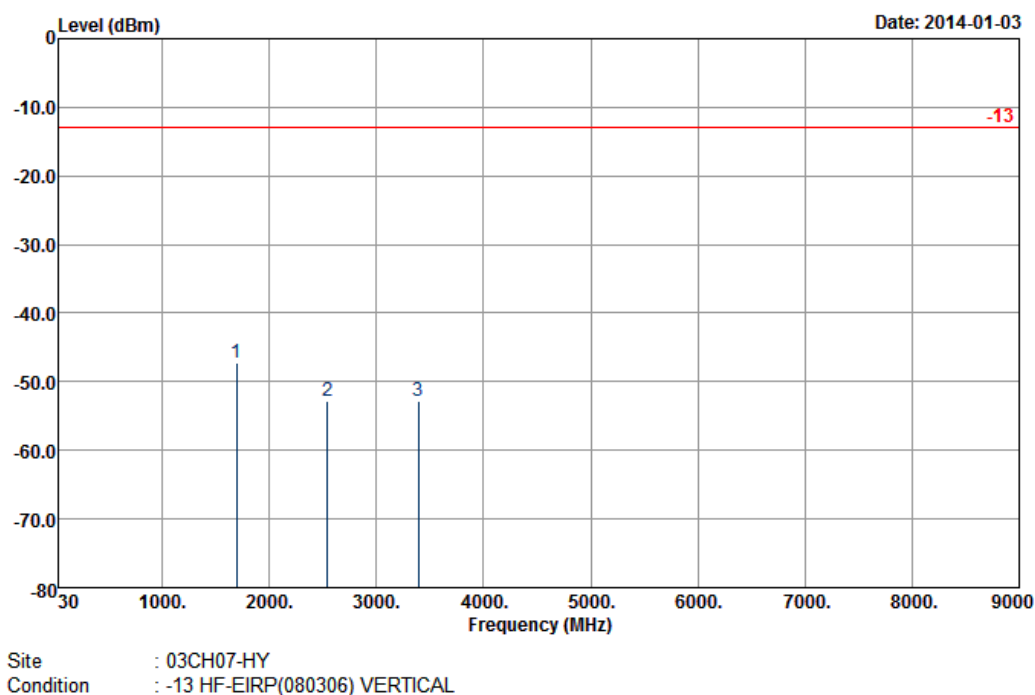
<High Channel>

Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	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
1696	-48.32	-13	-35.32	-57.57	-52.2	1.57	5.45	H	Pass
2544	-53.97	-13	-40.97	-67.41	-58.23	2.02	6.28	H	Pass
3393	-53.30	-13	-40.30	-67.87	-59.2	2.3	8.20	H	Pass

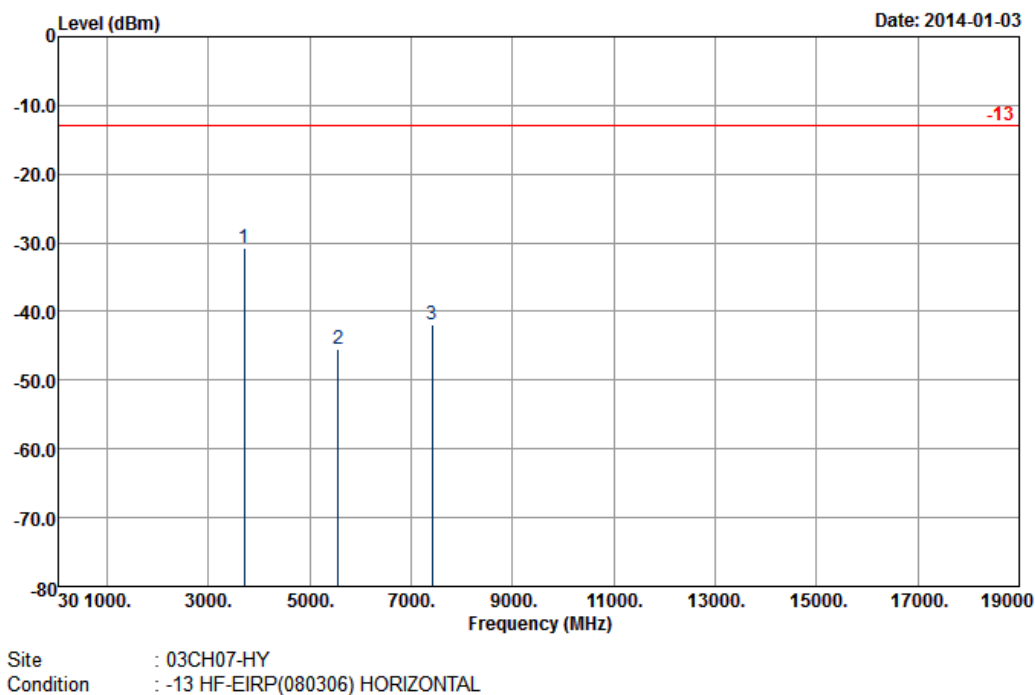
Band :	WCDMA Band V	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
1696	-47.32	-13	-34.32	-58.95	-51.2	1.57	5.45	V	Pass
2544	-52.84	-13	-39.84	-67.47	-57.1	2.02	6.28	V	Pass
3393	-52.90	-13	-39.90	-68.58	-58.8	2.3	8.20	V	Pass

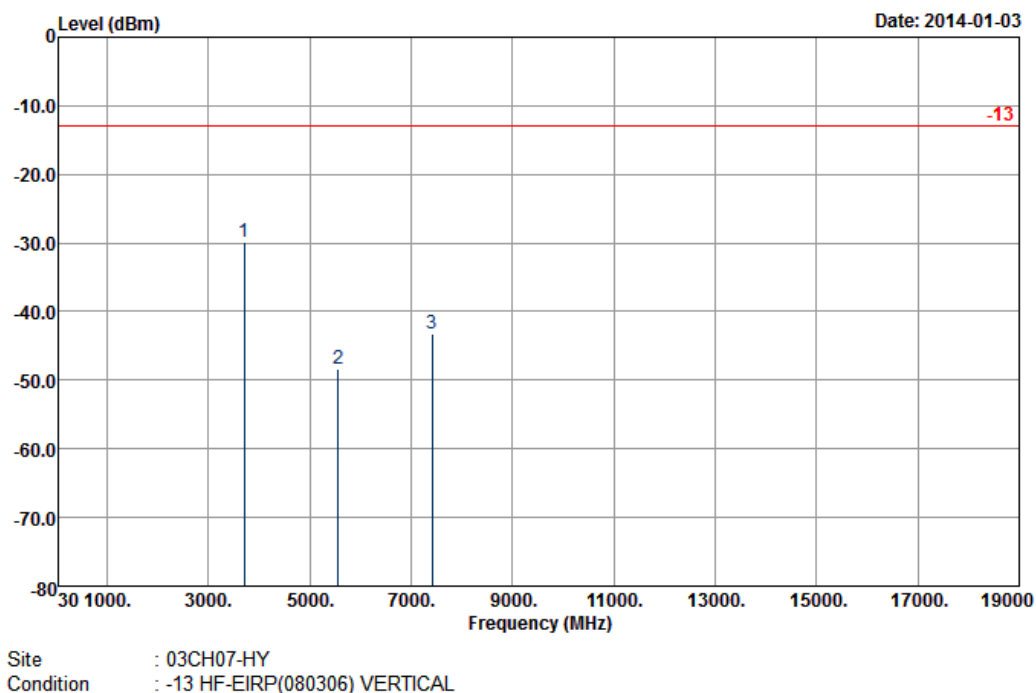
<Low Channel>

Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3705	-30.65	-13	-17.65	-45.99	-36.8	2.59	8.74	H	Pass
5557	-45.54	-13	-32.54	-66.35	-53.2	3.04	10.70	H	Pass
7410	-41.96	-13	-28.96	-69.39	-50.7	3.28	12.02	H	Pass

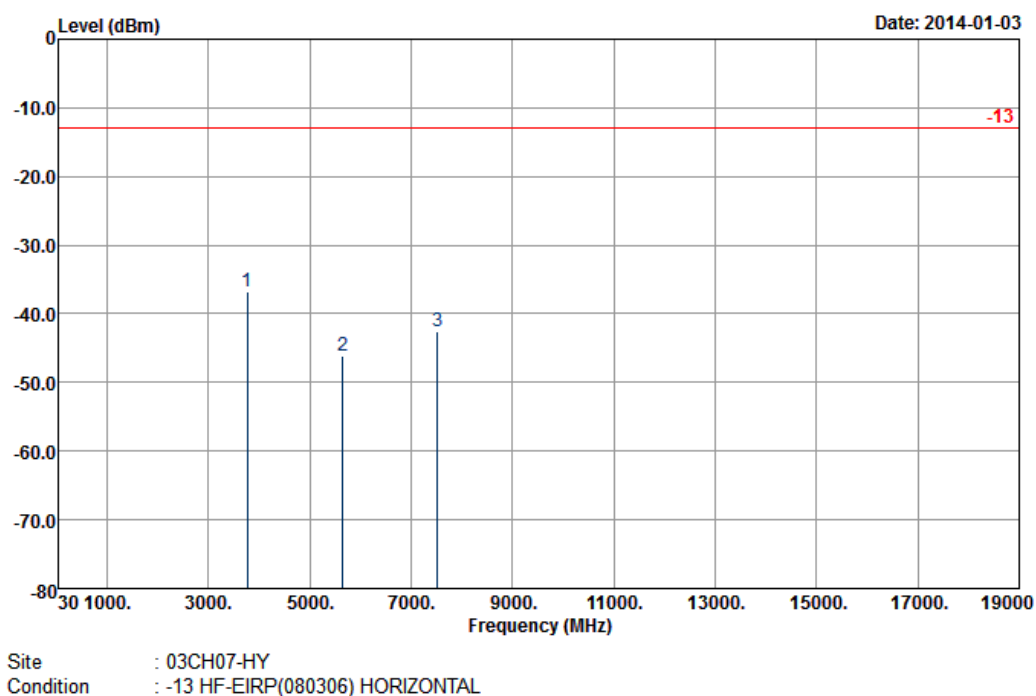
Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3705	-29.75	-13	-16.75	-45.96	-35.9	2.59	8.74	V	Pass
5557	-48.44	-13	-35.44	-68.82	-56.1	3.04	10.70	V	Pass
7410	-43.16	-13	-30.16	-70.22	-51.9	3.28	12.02	V	Pass

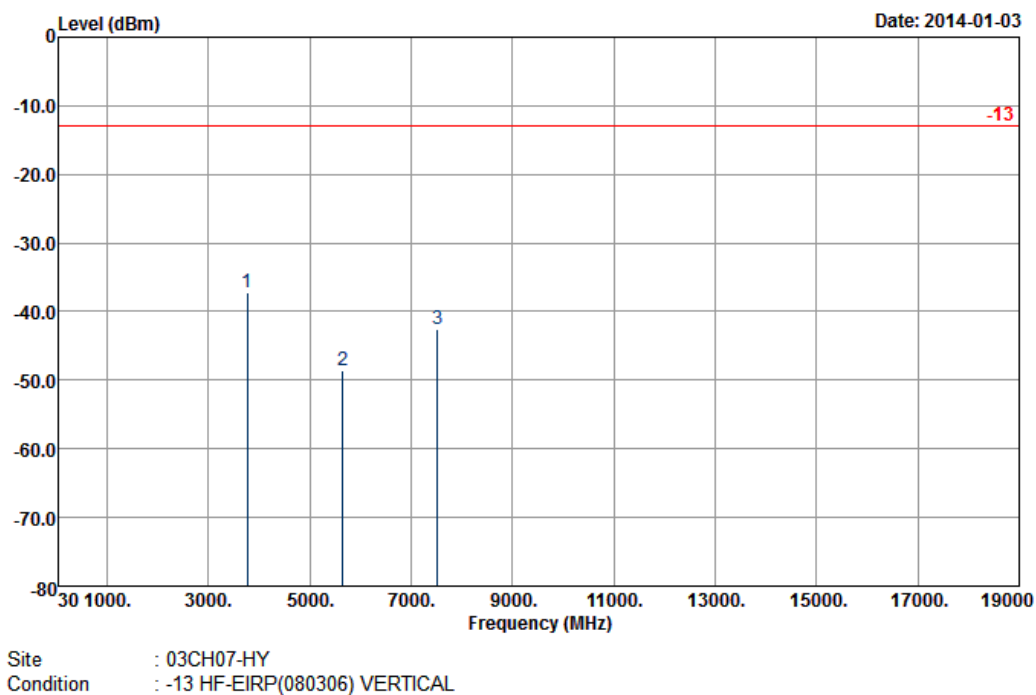
<Middle Channel>

Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-36.80	-13	-23.80	-52.24	-43.1	2.51	8.81	H	Pass
5640	-46.19	-13	-33.19	-67.39	-53.9	2.99	10.70	H	Pass
7520	-42.57	-13	-29.57	-69.77	-51.1	3.59	12.12	H	Pass

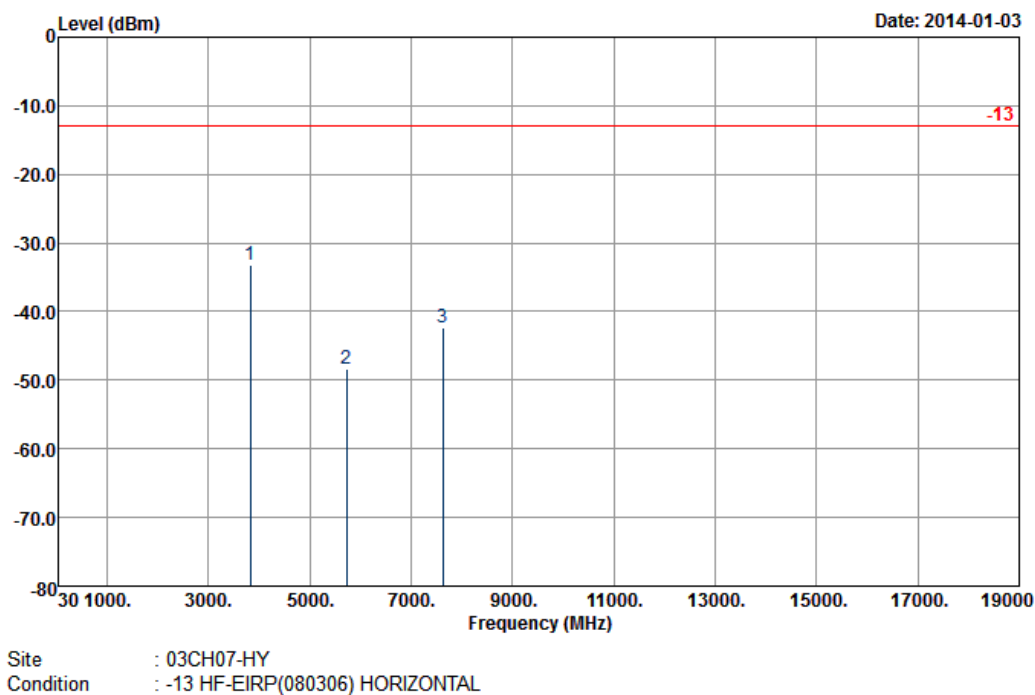
Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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	-37.20	-13	-24.20	-53.63	-43.5	2.51	8.81	V	Pass
5640	-48.59	-13	-35.59	-69.35	-56.3	2.99	10.70	V	Pass
7520	-42.67	-13	-29.67	-69.92	-51.2	3.59	12.12	V	Pass

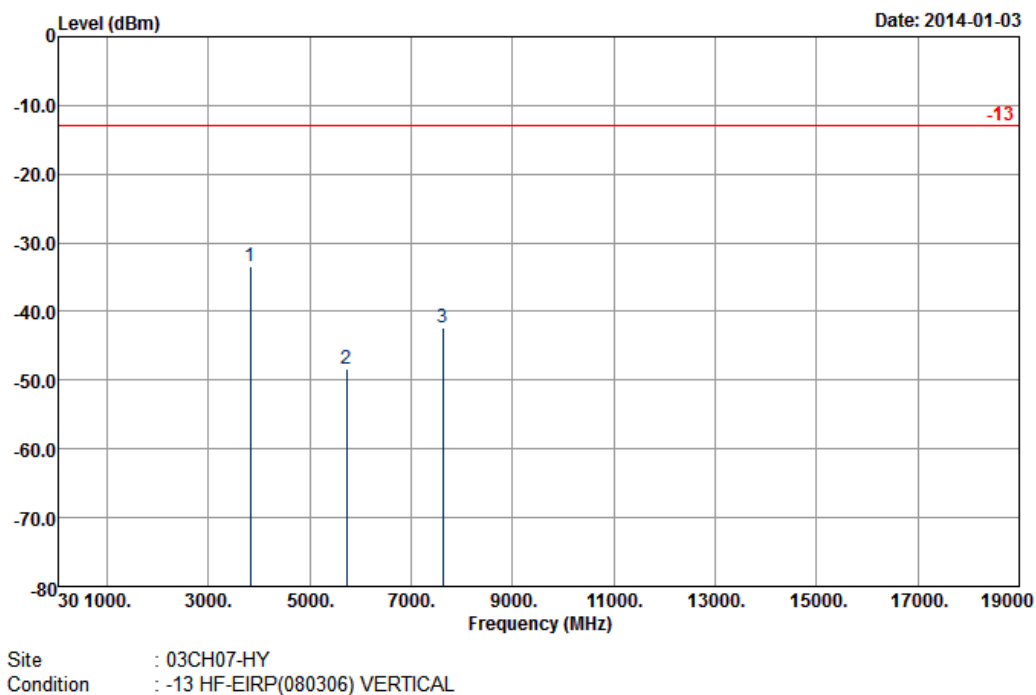
<High Channel>

Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Horizontal
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3815	-33.19	-13	-20.19	-48.9	-39.6	2.47	8.88	H	Pass
5723	-48.40	-13	-35.40	-70.02	-56.1	3	10.70	H	Pass
7630	-42.32	-13	-29.32	-68.92	-51.1	3.43	12.21	H	Pass

Band :	WCDMA Band II	Temperature :	21~23°C
Test Mode :	RMC 12.2Kbps Link (QPSK)	Relative Humidity :	45~52%
Test Engineer :	Stan Hsieh	Polarization :	Vertical
Remark :	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.		



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
3815	-33.39	-13	-20.39	-50.06	-39.8	2.47	8.88	V	Pass
5723	-48.40	-13	-35.40	-69.53	-56.1	3	10.70	V	Pass
7630	-42.42	-13	-29.42	-69.09	-51.2	3.43	12.21	V	Pass



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
System Simulator	Rohde & Schwarz	CMU200	117995	N/A	Aug. 01, 2013	Jan. 03, 2014	Jul. 31, 2014	Conducted (TH02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 20, 2013	Jan. 01, 2014 ~ Jan. 03, 2014	Nov. 19, 2014	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Oct. 10, 2013	Jan. 01, 2014 ~ Jan. 03, 2014	Oct. 09, 2014	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 22, 2013	Jan. 01, 2014 ~ Jan. 03, 2014	Aug. 21, 2014	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	30MHz~1GHz	Feb. 26, 2013	Jan. 01, 2014 ~ Jan. 03, 2014	Feb. 25, 2014	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A01917	1GHz~26.5GHz	Aug. 12, 2013	Jan. 01, 2014 ~ Jan. 03, 2014	Aug. 11, 2014	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Jan. 01, 2014 ~ Jan. 03, 2014	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	ChainTek 3000	N/A	N/A	N/A	Jan. 01, 2014 ~ Jan. 03, 2014	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	15GHz- 40GHz	Oct. 03, 2013	Jan. 01, 2014 ~ Jan. 03, 2014	Oct. 02, 2014	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.50
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