

FCC TEST REPORT (PART 22)

REPORT NO.: RF140410C13

MODEL NO.: N450

FCC ID: P4Q-N450

RECEIVED: Apr. 10, 2014

TESTED: Apr. 28, 2014 ~ May 13, 2014

ISSUED: May 19, 2014

APPLICANT: MITAC International Corp.

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

LAB ADDRESS: No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist., New

Taipei City, Taiwan (R.O.C.)

TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei

Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF140410C13	Original release	May 19, 2014

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1 CERTIFICATION

PRODUCT: Tablet

MODEL: N450

BRAND: Mio, Mitac

APPLICANT: MITAC International Corp.

TESTED: Apr. 28, 2014 ~ May 13, 2014

TEST SAMPLE: Production Unit

STANDARDS: FCC PART 22, Subpart H

The above equipment (model: N450) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch,** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY: , DATE: May 19, 2014

Vera Huang / Specialist

APPROVED BY : , DATE : May 19, 2014

Sam Chen / Senior Project Engineer



2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 22 & Part 2					
STANDARD SECTION	TEST TYPE	RESULT	REMARK		
2.1046 22.913 (a)	Effective Radiated Power	PASS	Meet the requirement of limit.		
2.1055 22.355	Frequency Stability	PASS	Meet the requirement of limit.		
2.1049	Occupied Bandwidth	PASS	Meet the requirement of limit.		
22.917	22.917 Band Edge Measurements		Meet the requirement of limit.		
2.1051 22.917	Conducted Spurious Emissions	PASS	Meet the requirement of limit.		
2.1053 22.917	Radiated Spurious Emissions		Meet the requirement of limit. Minimum passing margin is -22.74dB at 46.74MHz.		

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
Dedicted emissions	200MHz ~1000MHz	2.95 dB
Radiated emissions	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



2.2 TEST SITE AND INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCI	100412	Sep. 13, 2013	Sep. 12, 2014
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27. 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D- 209	Sep. 12, 2013	Sep. 11, 2014
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Dec. 18, 2013	Dec. 17, 2014
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2013	Oct. 17, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2013	Oct. 17, 2014
RF signal cable Worken	RG-213	NA	Nov. 07, 2013	Nov. 06, 2014
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower &Turn Table Controller MF	MF-7802	NA	NA	NA
Mini-Circuits Power Splitter	ZN2PD-9G	NA	Jul. 18, 2013	Jul. 17, 2014
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
Communications Tester-Wireless	E5515C	MY52102544	Sep. 05, 2012	Sep. 04, 2014
Radio Communication Analyzer	MT8820C	6201300640	Aug. 01, 2013	Jul. 31, 2014

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in HwaYa Chamber 10.
- 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 4. The FCC Site Registration No. is 690701.
- 5. The IC Site Registration No. is IC 7450F-10.



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Tablet		
MODEL NO.	N450		
POWER SUPPLY	12Vdc (adapter or host equipment) 3.7Vdc (Li-ion battery)		
	GPRS	GMSK	
MODULATION TYPE	EDGE	GMSK, 8PSK	
	WCDMA	BPSK	
FREQUENCY RANGE	GPRS/EDGE	824.2MHz ~ 848.8MHz	
FREQUENCY RANGE	WCDMA	826.4MHz ~ 846.6MHz	
	GPRS	1059.25mW	
MAX. ERP POWER	EDGE	287.74mW	
	WCDMA	126.18mW	
	GPRS	245KGXW	
EMISSION DESIGNATOR	EDGE	249KG7W	
	WCDMA	4M09F9W	
ANTENNA TYPE	Fixed Internal Antenna		
I/O PORTS	Refer to users' manual		
DATA CABLE	Refer to NOTE as below		
ACCESSORY DEVICES	Refer to NOTE as below		



NOTE:

1. The EUT contains following accessory devices.

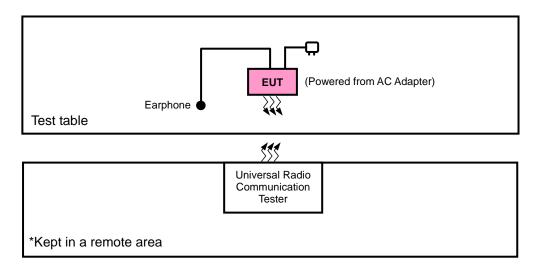
ITEM	BRAND	MODEL	SPECIFICATION
Adapter 1	SINO-AMERICAN	SA142B-12U	I/P: 110-240Vac, 1.2A O/P: 12Vdc, 3A
Adapter 2	SINPRO	HPU63A-105	I/P: 100-240Vac, 1.62-0.72A O/P: 12Vdc, 5.25A
Battery 1	GETAC	BP-TKS-12/3360 SN	3.7Vdc, 6720mAh
Battery 2	Tian Yu	BK-N450X-510KNX-01	3.7Vdc, 510mAh
USB Cable	EMINENCE	JU-57405040525	0.9m cable
BCR-1 (1D)	Opticon	MDL2001	
BCR-2 (2D)	HoneyWell	5680	
BCR-3 (2D)	Code	CR8012	
CPU	TI	44705GPCBS	1.5G Hz
eMMC	N/A	N/A	16GB
LCD Panel	N/A	N/A	10.1 inch
Front Camera	Liteon	10P2SF130	
Rear Camera	Liteon	10P2SA511	
WWAN Module	Ublox	LISA-U200	
WLAN,BT Module	Jorjin	WG7833-B0 & WX7833-B0	

^{2.} The above EUT information is declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

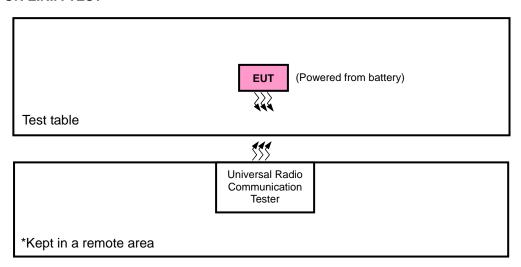


3.2 CONFIGURATION OF SYSTEM UNDER TEST

FOR RADIATION EMISSION TEST



FOR E.R.P. TEST



3.3 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Earphone	N/A	N/A	N/A	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA

NOTE:

1. All power cords of the above support units are non shielded (1.8m).



3.4 TEST ITEM AND TEST CONFIGURATION

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports. The worst case was found and listed as below table. Following channel(s) was (were) selected for the final test as listed below:

EUT	2-22-22-22	AXIS		
CONFIGURE MODE	DESCRIPTION	ERP	RADIATED EMISSION	
А	Tablet w/o Bar Code Scanner + Adapter 1	X	X	
В	Tablet w/ 1D Opticon Scanner + Adapter 1	X	Υ	
С	Tablet w/ 2D HoneyWell Scanner + Adapter 1	X	X	
D	Tablet w/ 2D Code Scanner + Adapter 1	X	Z	
Е	Tablet w/o Bar Code Scanner + Adapter 2	-	Х	
F	Tablet w/ 1D Opticon Scanner + Adapter 2	-	Υ	
G	Tablet w/ 2D HoneyWell Scanner + Adapter 2	-	X	
Н	Tablet w/ 2D Code Scanner + Adapter 2	-	Z	

GSM MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
А	ERP	128 to 251	128, 189, 251	GPRS, EDGE
B, C, D	ERP	128 to 251	128, 189, 251	GPRS
А	FREQUENCY STABILITY	128 to 251	189	GPRS, EDGE
А	OCCUPIED BANDWIDTH	128 to 251	128, 189, 251	GPRS, EDGE
А	BAND EDGE	128 to 251	128, 251	GPRS, EDGE
А	CONDCUDETED EMISSION	128 to 251	189	GPRS, EDGE
А	RADIATED EMISSION	128 to 251	189	GPRS, EDGE
B, C, D, E, F, G, H	RADIATED EMISSION	128 to 251	189	EDGE



WCDMA MODE

EUT CONFIGURE MODE	TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
А	ERP	4132 to 4233	4132, 4182, 4233	WCDMA
А	FREQUENCY STABILITY	4132 to 4233	4182	WCDMA
Α	OCCUPIED BANDWIDTH	4132 to 4233	4132, 4182, 4233	WCDMA
А	BAND EDGE	4132 to 4233	4132, 4233	WCDMA
А	CONDCUDETED EMISSION	4132 to 4233	4182	WCDMA
А	RADIATED EMISSION	4132 to 4233	4182	WCDMA

TEST CONDITION:

TEST ITEM	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
ERP	26deg. C, 58%RH	3.8Vdc	Howard Kao
FREQUENCY STABILITY	26deg. C, 58%RH	3.8Vdc	Howard Kao
OCCUPIED BANDWIDTH	26deg. C, 58%RH	3.8Vdc	Howard Kao
BAND EDGE	26deg. C, 58%RH	3.8Vdc	Howard Kao
CONDCUDETED EMISSION	26deg. C, 58%RH	3.8Vdc	Howard Kao
RADIATED EMISSION	25deg. C, 65%RH	120Vac, 60Hz	Johnson Liao / Peter Weng

3.5 EUT OPERATING CONDITIONS

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.6 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2 FCC 47 CFR Part 22 ANSI/TIA/EIA-603-C 2004

NOTE: All test items have been performed and recorded as per the above standards.



4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER MEASUREMENT

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 TEST PROCEDURES

EIRP / ERP MEASUREMENT:

- a. All measurements were done at low, middle and high operational frequency range. RBW and VBW is 1MHz for GSM, GPRS & EDGE, 5MHz for WCDMA & CDMA, and 10MHz for LTE mode.
- b. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- c. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step b. Record the power level of S.G
- d. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15dBi.

CONDUCTED POWER MEASUREMENT:

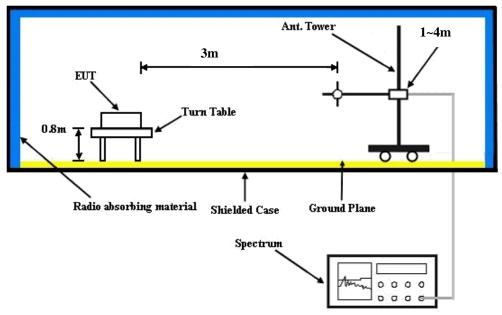
The EUT was set up for the maximum power with GSM, GPRS, EDGE, WCDMA & CDMA link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and record the power level shown on simulator.

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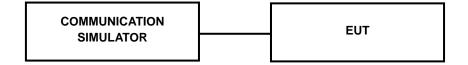


4.1.3 TEST SETUP

EIRP / ERP MEASUREMENT:



CONDUCTED POWER MEASUREMENT:





4.1.4 TEST RESULTS

CONDUCTED OUTPUT POWER (dBm)

Band		GSM850	
Channel	128	189	251
Frequency (MHz)	824.2	836.4	848.8
GPRS 8 (GMSK, 1 slot)	32.27	32.29	32.24
GPRS 10 (GMSK, 2 slot)	32.16	32.18	32.13
GPRS 11 (GMSK, 3 slot)	31.49	31.50	31.46
GPRS 12 (GMSK, 4 slot)	30.37	30.39	30.34
EDGE 8 (GMSK, 1 Uplink)	32.20	32.22	32.17
EDGE 10 (GMSK, 2 Uplink)	31.76	31.78	31.73
EDGE 11 (GMSK, 3 Uplink)	30.89	30.91	30.86
EDGE 12 (GMSK, 4 Uplink)	30.33	30.35	30.30
EDGE 8 (8PSK, 1 Uplink)	26.33	26.35	26.30
EDGE 10 (8PSK, 2 Uplink)	25.92	25.94	25.89
EDGE 11 (8PSK, 3 Uplink)	25.66	25.68	25.63
EDGE 12 (8PSK, 4 Uplink)	24.47	24.49	24.44

Band		WCDMA V	
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	22.97	22.69	22.71
HSDPA Subtest-1	22.93	22.65	22.67
HSDPA Subtest-2	22.18	21.90	21.92
HSDPA Subtest-3	21.92	21.64	21.66
HSDPA Subtest-4	21.49	21.21	21.23
HSUPA Subtest-1	21.45	21.17	21.19
HSUPA Subtest-2	20.30	20.02	20.04
HSUPA Subtest-3	20.50	20.22	20.24
HSUPA Subtest-4	20.37	20.09	20.11
HSUPA Subtest-5	22.33	22.05	22.07



ERP POWER (dBm)

MODE A

	GPRS								
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)		
	128	824.2	-0.34	32.62	30.13	1030.39	Н		
	189	836.4	-0.23	32.52	30.14	1032.76	Н		
x	251	848.8	-0.48	32.65	30.02	1004.62	Н		
^	128	824.2	-6.22	32.76	24.39	274.79	V		
	189	836.4	-5.86	32.39	24.38	274.16	V		
	251	848.8	-5.51	32.54	24.88	307.61	V		

	EDGE								
Plane Channel		Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)		
	128	824.2	-5.88	32.62	24.59	287.74	Н		
	189	836.4	-5.95	32.52	24.42	276.69	Н		
v	251	848.8	-6.00	32.65	24.50	281.84	Н		
Х	128	824.2	-9.96	32.76	20.65	116.14	V		
	189	836.4	-9.34	32.39	20.90	123.03	V		
	251	848.8	-10.12	32.54	20.27	106.41	V		

	WCDMA									
Plane	Channel	Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)			
	4132	826.4	-9.46	32.62	21.01	126.18	Н			
	4182	836.4	-9.61	32.52	20.76	119.12	Н			
x	4233	846.6	-9.97	32.65	20.53	112.98	Н			
^	4132	826.4	-15.57	32.76	15.04	31.92	V			
	4182	836.4	-15.88	32.39	14.36	27.29	V			
	4233	846.6	-15.51	32.54	14.88	30.76	V			



MODE B

	GPRS									
Plane	Plane Channel Frequency (MHz) LVL Correction Factor(dB)		ERP(dBm)	ERP(mW)	Polarization (H/V)					
	128	824.2	-0.56	32.62	29.91	979.49	Н			
	189	836.4	-1.03	32.52	29.34	859.01	Н			
x	251	848.8	-0.89	32.65	29.61	914.11	Н			
^	128	824.2	-8.63	32.76	21.98	157.76	V			
	189	836.4	-8.01	32.39	22.23	167.11	V			
	251	848.8	-8.75	32.54	21.64	145.88	V			

MODE C

	GPRS								
Plane Channel		Frequency (MHz)	LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)		
	128	824.2	-0.55	32.62	29.92	981.75	Н		
	189	836.4	-1.01	32.52	29.36	862.98	Н		
x	251	848.8	-0.75	32.65	29.75	944.06	Н		
^	128	824.2	-8.25	32.76	22.36	172.19	V		
	189	836.4	-7.78	32.39	22.46	176.20	V		
	251	848.8	-7.92	32.54	22.47	176.60	V		

MODE D

	GPRS									
Plane	Plane Channel F		LVL (dBm)	Correction Factor(dB)	ERP(dBm)	ERP(mW)	Polarization (H/V)			
	128	824.2	-0.56	32.62	29.91	979.49	Н			
	189	836.4	-0.12	32.52	30.25	1059.25	Н			
x	251	848.8	-0.39	32.65	30.11	1025.65	Н			
^	128	824.2	-8.90	32.76	21.71	148.25	V			
	189	836.4	-8.11	32.39	22.13	163.31	V			
	251	848.8	-8.03	32.54	22.36	172.19	V			



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

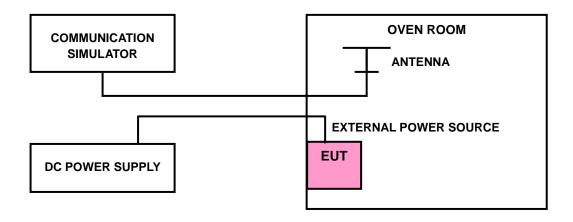
1.5 ppm is for base and fixed station. 2.5 ppm is for mobile station.

4.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5°C during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

NOTE: The frequency error was recorded frequency error from the communication simulator.

4.2.3 TEST SETUP



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4.2.4 TEST RESULTS

FREQUENCY ERROR vs. VOLTAGE

	FR			
VOLTAGE (Volts)	GPRS	EDGE	WCDMA	LIMIT (ppm)
3.8	0.008	-0.003	-0.005	2.5
3.4	0.005	-0.004	-0.005	2.5
4.2	0.005	-0.009	-0.002	2.5

NOTE: The applicant defined the normal working voltage of the battery is from 3.4Vdc to 4.2Vdc.

FREQUENCY ERROR vs. TEMPERATURE

	FR			
TEMP. (°C)	GPRS	EDGE	WCDMA	LIMIT (ppm)
-10	0.009	-0.006	-0.003	2.5
0	0.008	-0.005	-0.005	2.5
10	0.006	-0.003	-0.004	2.5
20	0.013	-0.005	-0.003	2.5
30	0.008	-0.011	-0.007	2.5
40	0.011	0.003	-0.003	2.5
50	0.003	-0.004	-0.002	2.5

Note:

- 1. The applicant declared that the normal operating temperature of the EUT is from -10°C to 50°C.
- 2. The EUT would shut down automatically as below -10°C.

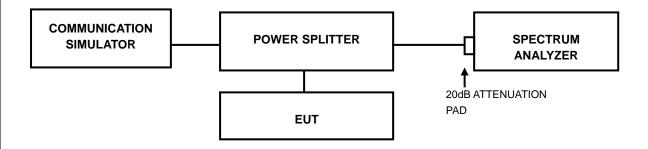


4.3 OCCUPIED BANDWIDTH MEASUREMENT

4.3.1 TEST PROCEDURES

The EUT makes a call to the communication simulator. All measurements were done at low, middle and high operational frequency range. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.

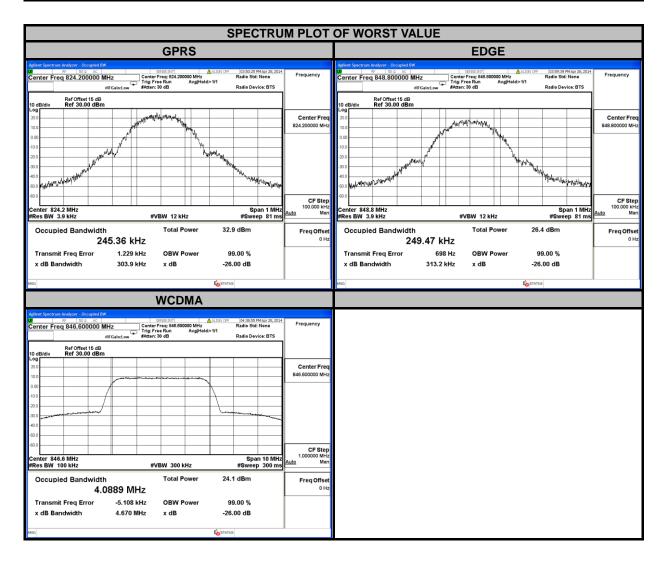
4.3.2 TEST SETUP





4.3.3 TEST RESULTS

CHANNEL	FREQUENCY (MHz)	99% OC BANDWII	CUPIED DTH (kHz)	CHANNEL	FREQUENCY (MHz)	99% OCCUPIED BANDWIDTH (MHz)
	, ,	GPRS	EDGE		, ,	WCDMA
128	824.2	245.36	248.92	4132	826.4	4.0810
189	836.4	241.72	248.96	4182	836.4	4.0818
251	848.8	240.04	249.47	4233	846.6	4.0889
CHANNEL	FREQUENCY	26dB BAND	WIDTH (kHz)	CHANNEL	FREQUENCY	26dB BANDWIDTH (MHz)
	(MHz)	GPRS	EDGE		(MHz)	WCDMA
128	824.2	303.90	313.70	4132	826.4	4.680
189	836.4	313.60	310.10	4182	836.4	4.663
251	848.8	309.50	313.20	4233	846.6	4.670



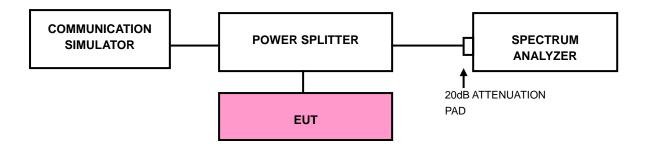


4.4 BAND EDGE MEASUREMENT

4.4.1 LIMITS OF BAND EDGE MEASUREMENT

Power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4.4.2 TEST SETUP

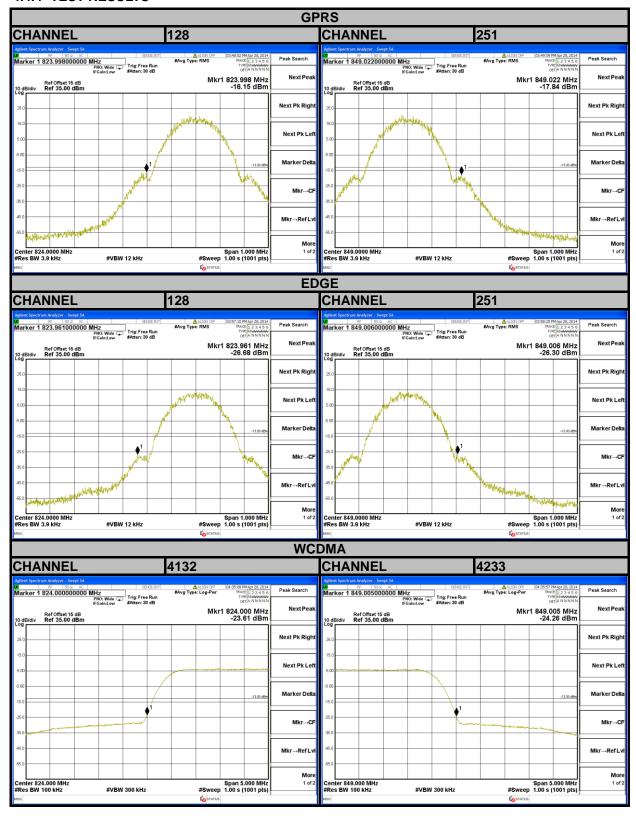


4.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1MHz. RB of the spectrum is 3kHz and VB of the spectrum is 10kHz (GSM/GPRS/ EDGE).
- c. The center frequency of spectrum is the band edge frequency and span is 5MHz. RB of the spectrum is 100kHz and VB of the spectrum is 300kHz (WCDMA/LTE).
- d. The center frequency of spectrum is the band edge frequency and span is 2MHz. RB of the spectrum is 13kHz and VB of the spectrum is 51kHz (CDMA).
- e. Record the max trace plot into the test report.



4.4.4 TEST RESULTS





4.5 CONDUCTED SPURIOUS EMISSIONS

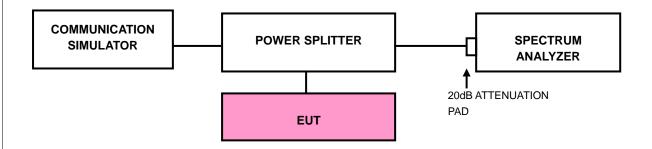
4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit is equal to -13dBm.

4.5.2 TEST PROCEDURE

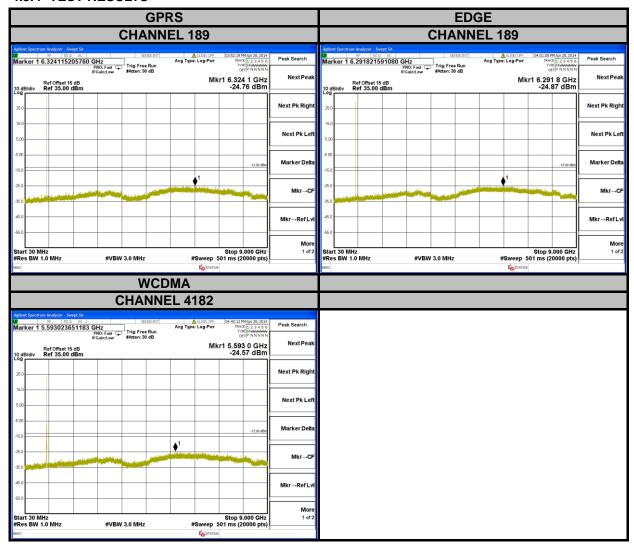
- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30 MHz to 9GHz. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

4.5.3 TEST SETUP





4.5.4 TEST RESULTS





4.6 RADIATED EMISSION MEASUREMENT

4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit is equal to -13dBm.

4.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power 2.15dBi.

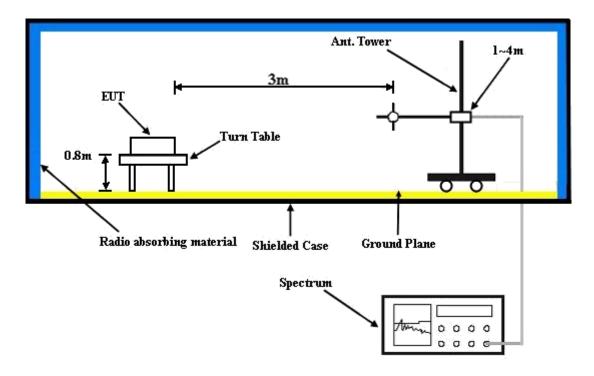
NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.6.3 DEVIATION FROM TEST STANDARD

No deviation



4.6.4 TEST SETUP



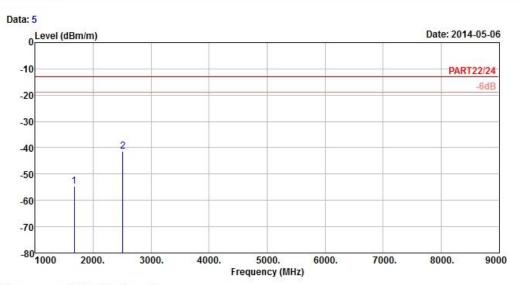
For the actual test configuration, please refer to the attached file (Test Setup Photo).



4.6.5 TEST RESULTS MODE A GPRS:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : GPRS850 Link Tested by: Johnson Liao

Plane : X

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

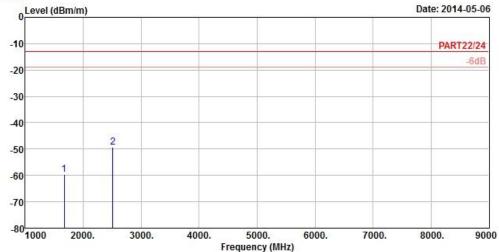
1 1672.80 -54.64 -40.80 -13.00 -41.64 -13.84 Peak 2 pp 2509.20 -41.37 -31.38 -13.00 -28.37 -9.99 Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : GPRS850 Link Tested by: Johnson Liao

Plane : X

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

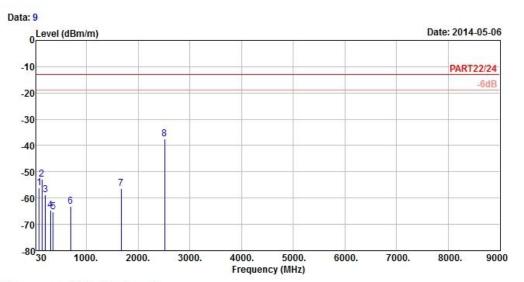
1 1672.80 -59.72 -45.88 -13.00 -46.72 -13.84 Peak 2 pp 2509.20 -49.16 -39.17 -13.00 -36.16 -9.99 Peak



EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : X

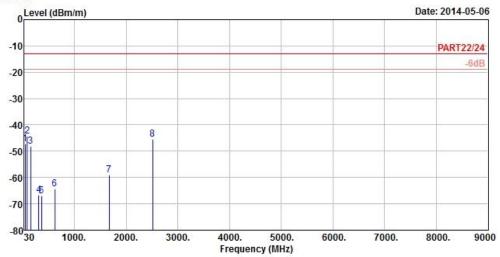
	Freq	Level		Limit Line	Over Limit	Factor	Remark
95 <u>-</u>	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	83.73	-55.97	-45.61	-13.00	-42.97	-10.36	Peak
2	140.43	-52.96	-47.23	-13.00	-39.96	-5.73	Peak
3	207.39	-58.83	-51.23	-13.00	-45.83	-7.60	Peak
4	303.50	-64.78	-58.43	-13.00	-51.78	-6.35	Peak
5	356.00	-65.10	-59.14	-13.00	-52.10	-5.96	Peak
6	693.40	-63.14	-64.47	-13.00	-50.14	1.33	Peak
6	1672.80	-56.39	-42.55	-13.00	-43.39	-13.84	Peak
8 pp	2509.20	-37.48	-27.49	-13.00	-24.48	-9.99	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : X

		Freq	Level	Level	Limit	Limit	Factor	Remark	
	(S) <u>—</u>	MHz	dBm/m	dBm	dBm/m	dB	dB/m	3	
1		43.77	-47.21	-45.95	-13.00	-34.21	-1.26	Peak	
2	pp	85.62	-44.18	-33.75	-13.00	-31.18	-10.43	Peak	
3		152.04	-48.11	-41.72	-13.00	-35.11	-6.39	Peak	
4		307.00	-66.69	-60.37	-13.00	-53.69	-6.32	Peak	
5		360.20	-66.95	-61.02	-13.00	-53.95	-5.93	Peak	
6		621.30	-64.42	-64.45	-13.00	-51.42	0.03	Peak	
7		1672.80	-59.13	-45.29	-13.00	-46.13	-13.84	Peak	
8		2509.20	-45.38	-35.39	-13.00	-32.38	-9.99	Peak	

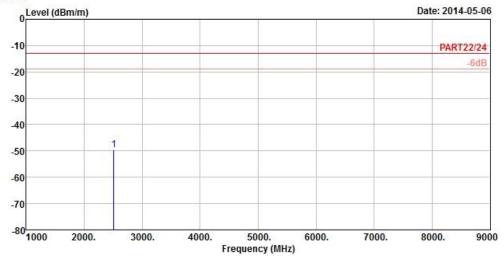


WCDMA:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : Band V Link Tested by: Johnson Liao

Plane : X

Read Limit Over
Freq Level Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

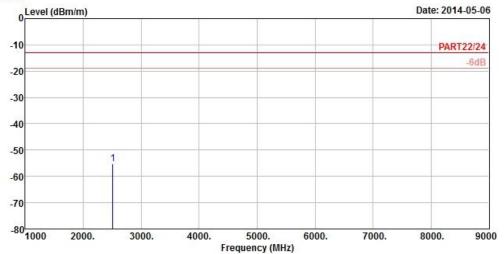
1 pp 2509.20 -49.57 -39.58 -13.00 -36.57 -9.99 Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : Band V Link Tested by: Johnson Liao

Plane : X

Read Limit Over

Freq Level Line Limit Factor Remark

MHz dBm/m dBm dBm/m dB dB/m

1 pp 2509.20 -55.35 -45.36 -13.00 -42.35 -9.99 Peak

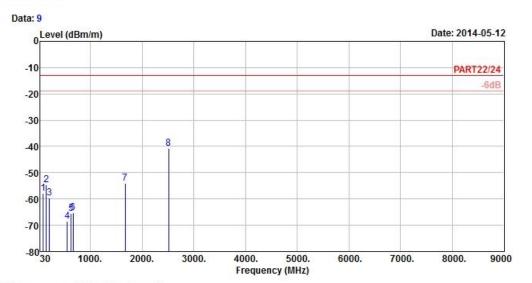


MODE B

EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGES850 Link Tested by: Johnson Liao

Plane : Y

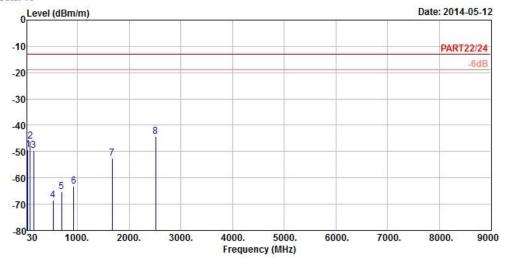
			Dd	12.24	0		
	Freq	Level	1 61	Limit Line	1 8 E E	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	<u> </u>
1	81.57	-57.92	-47.62	-13.00	-44.92	-10.30	Peak
2	142.86	-54.50	-48.64	-13.00	-41.50	-5.86	Peak
3	204.42	-59.71	-51.98	-13.00	-46.71	-7.73	Peak
4	548.50	-68.45	-66.69	-13.00	-55.45	-1.76	Peak
5	622.70	-65.62	-65.67	-13.00	-52.62	0.05	Peak
6	666.80	-65.20	-66.04	-13.00	-52.20	0.84	Peak
7	1672.80	-54.14	-40.30	-13.00	-41.14	-13.84	Peak
8 pp	2509.20	-40.64	-30.65	-13.00	-27.64	-9.99	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : EDGES850 Link Tested by: Johnson Liao

Plane : Y

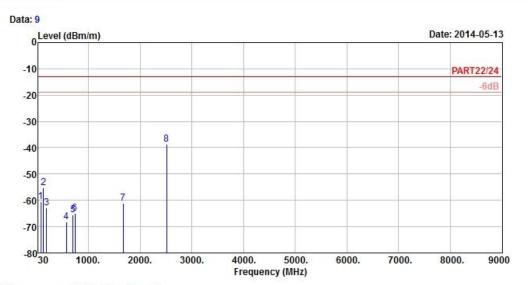
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
Ø <u>-</u>	MHz	dBm/m	dBm	dBm/m	dB	dB/m	
1	42.42	-49.23	-47.90	-13.00	-36.23	-1.33	Peak
2	84.27	-46.09	-35.70	-13.00	-33.09	-10.39	Peak
3	151.50	-49.57	-43.19	-13.00	-36.57	-6.38	Peak
4	526.80	-68.58	-66.21	-13.00	-55.58	-2.37	Peak
5	691.30	-65.23	-66.52	-13.00	-52.23	1.29	Peak
6	925.10	-63.22	-66.42	-13.00	-50.22	3.20	Peak
7	1672.80	-52.52	-38.68	-13.00	-39.52	-13.84	Peak
8 pp	2509.20	-44.35	-34.36	-13.00	-31.35	-9.99	Peak



MODE C EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGE850 Link Tested by: PeterWeng Plane : X

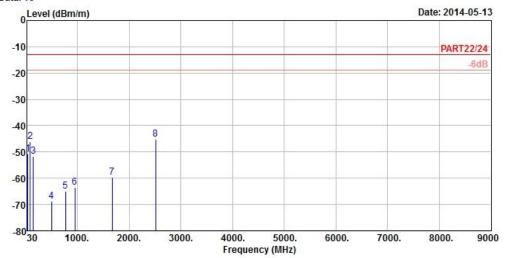
TUIL	. /						
	Freq	Level	1000	Limit Line	Over Limit	Factor	Remark
©_	MHz	dBm/m	dBm	dBm/m	dB	dB/m	3
1	77.79	-60.60	-50.58	-13.00	-47.60	-10.02	Peak
2	128.55	-55.31	-46.80	-13.00	-42.31	-8.51	Peak
3	192.27	-62.78	-55.74	-13.00	-49.78	-7.04	Peak
4	570.90	-68.30	-67.15	-13.00	-55.30	-1.15	Peak
5	699.70	-65.63	-67.06	-13.00	-52.63	1.43	Peak
6	736.10	-65.00	-66.69	-13.00	-52.00	1.69	Peak
7	1672.80	-61.23	-47.39	-13.00	-48.23	-13.84	Peak
8 pp	2509.20	-38.69	-28.70	-13.00	-25.69	-9.99	Peak





Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch





Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : EDGE850 Link Tested by: PeterWeng

Plane : X

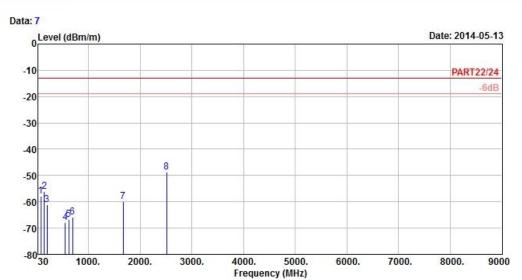
	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark
S)	MHz	dBm/m	dBm	dBm/m	dB	dB/m	9
1	42.15	-50.81	-49.48	-13.00	-37.81	-1.33	Peak
2	83.46	-46.17	-35.81	-13.00	-33.17	-10.36	Peak
3	148.53	-51.74	-45.51	-13.00	-38.74	-6.23	Peak
4	501.60	-68.82	-65.76	-13.00	-55.82	-3.06	Peak
5	771.10	-64.92	-66.85	-13.00	-51.92	1.93	Peak
6	949.60	-63.33	-67.01	-13.00	-50.33	3.68	Peak
7	1672.80	-59.69	-45.85	-13.00	-46.69	-13.84	Peak
8 pp	2509.20	-45.27	-35.28	-13.00	-32.27	-9.99	Peak



MODE D EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

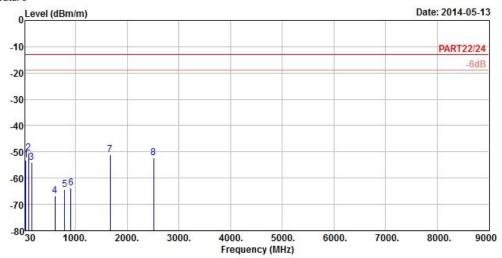
Remark : EDGE850 Link Tested by: PeterWeng Plane : Z

			Dand	Limit	0		
	Freq	Level	1000	Line	1 8 2 2	Factor	Remark
SS <u>—</u>	MHz	dBm/m	dBm	dBm/m	dB	dB/m	83
1	80.76	-57.94	-47.67	-13.00	-44.94	-10.27	Peak
2	141.78	-56.18	-50.38	-13.00	-43.18	-5.80	Peak
3	201.18	-61.20	-53.29	-13.00	-48.20	-7.91	Peak
4	553.40	-67.92	-66.29	-13.00	-54.92	-1.63	Peak
5	620.60	-66.61	-66.63	-13.00	-53.61	0.02	Peak
6	694.80	-65.87	-67.22	-13.00	-52.87	1.35	Peak
7	1672.80	-59.90	-46.06	-13.00	-46.90	-13.84	Peak
8 pp	2509.20	-48.65	-38.66	-13.00	-35.65	-9.99	Peak









Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : EDGE850 Link Tested by: PeterWeng

Plane : Z

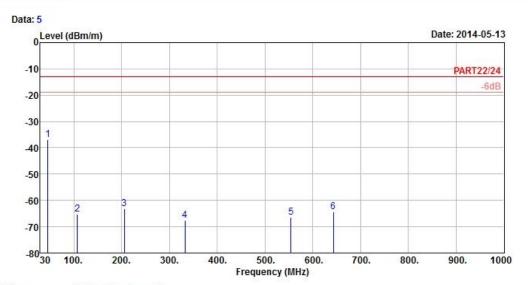
				Road	Limit	Oven		
		Freq	Level		Line	1 8 E E	Factor	Remark
	-	MHz	dBm/m	dBm	dBm/m	dB	dB/m	3
1		38.64	-53.07	-51.33	-13.00	-40.07	-1.74	Peak
2	pp	92.10	-50.48	-39.94	-13.00	-37.48	-10.54	Peak
3		154.74	-54.10	-47.66	-13.00	-41.10	-6.44	Peak
4		601.70	-66.75	-66.42	-13.00	-53.75	-0.33	Peak
5		794.90	-64.26	-66.36	-13.00	-51.26	2.10	Peak
6		912.50	-63.81	-66.76	-13.00	-50.81	2.95	Peak
7		1672.80	-51.02	-37.18	-13.00	-38.02	-13.84	Peak
8		2509.20	-52.34	-42.35	-13.00	-39.34	-9.99	Peak



MODE E EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : X

Remark : Metical

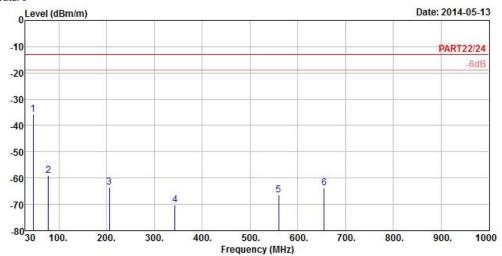
	Freq	Level	Level	Line	Limit	Factor	Remark
99	MHz	dBm/m	dBm	dBm/m	dB	dB/m	e e e e e e e e e e e e e e e e e e e
1 pp	45.93	-36.88	-35.12	-13.00	-23.88	-1.76	Peak
2	107.49	-65.28	-54.71	-13.00	-52.28	-10.57	Peak
3	205.77	-63.30	-55.61	-13.00	-50.30	-7.69	Peak
4	332.90	-67.68	-61.54	-13.00	-54.68	-6.14	Peak
5	554.80	-66.32	-64.72	-13.00	-53.32	-1.60	Peak

643.00 -64.29 -64.71 -13.00 -51.29 0.42 Peak









Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : X

Remark : Metical

	Freq	Level		Limit Line			Remark
99	MHz	dBm/m	dBm	dBm/m	dB	dB/m	(d)
1 pp	46.74	-35.74	-33.41	-13.00	-22.74	-2.33	Peak
2	78.06	-58.95	-48.85	-13.00	-45.95	-10.10	Peak
3	206.04	-63.45	-55.76	-13.00	-50.45	-7.69	Peak
4	343.40	-70.33	-64.27	-13.00	-57.33	-6.06	Peak
5	559.70	-66.41	-64.94	-13.00	-53.41	-1.47	Peak

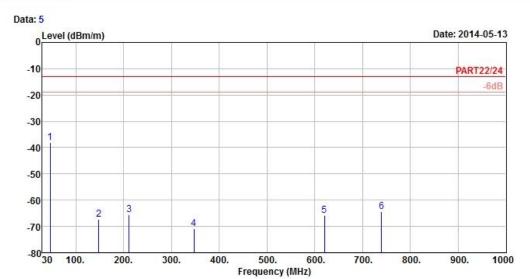
654.90 -63.90 -64.53 -13.00 -50.90 0.63 Peak



MODE F EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : Y

Remark : Metical

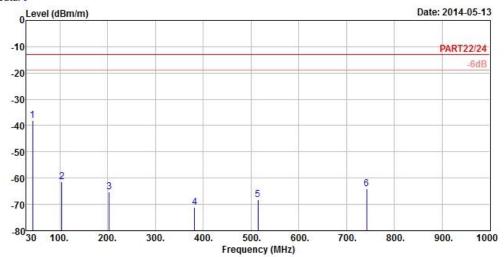
	Freq	Level		Limit Line		Factor	Remark
ýs i	MHz	dBm/m	dBm	dBm/m	dB	dB/m	

1 pp	46.74	-38.07	-35.74	-13.00	-25.07	-2.33	Peak
2	147.72	-67.30	-61.13	-13.00	-54.30	-6.17	Peak
3	211.71	-65.50	-58.07	-13.00	-52.50	-7.43	Peak
4	346.90	-70.95	-64.92	-13.00	-57.95	-6.03	Peak
5	619.90	-65.87	-65.87	-13.00	-52.87	0.00	Peak
6	739.60	-64.46	-66.18	-13.00	-51.46	1.72	Peak









Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : Y

Remark : Metical

Freq	Level		Limit Line			Remark	
MHz	dBm/m	dBm	dBm/m	dB	dB/m	(6) -	-0
10.00	20.40	26 77	42 00	05.40			

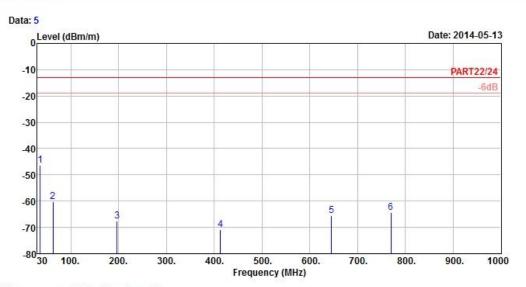
1 pp	42.96	-38.10	-36.77	-13.00	-25.10	-1.33	Peak
2	104.25	-61.34	-50.84	-13.00	-48.34	-10.50	Peak
3	203.34	-65.20	-57.42	-13.00	-52.20	-7.78	Peak
4	381.90	-71.02	-65.25	-13.00	-58.02	-5.77	Peak
5	514.90	-68.28	-65.59	-13.00	-55.28	-2.69	Peak
6	742.40	-64.12	-65.85	-13.00	-51.12	1.73	Peak



MODE G EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : X

> 6

Remark : Metical

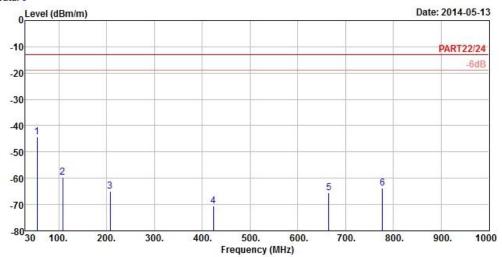
Cinon ic		TCUI						
	Freq	Level		Limit Line		Factor	Remark	
(d)	MHz	dBm/m	dBm	dBm/m	dB	dB/m		-
1 pp	35.94	-46.29	-43.93	-13.00	-33.29	-2.36	Peak	
2	62.94	-60.10	-53.03	-13.00	-47.10	-7.07	Peak	
3	197.13	-67.47	-59.86	-13.00	-54.47	-7.61	Peak	
4	412.70	-70.79	-65.49	-13.00	-57.79	-5.30	Peak	

645.80 -65.53 -66.00 -13.00 -52.53 0.47 Peak 769.70 -64.25 -66.18 -13.00 -51.25 1.93 Peak









Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

: EDGE850 Link Tested by: Johnson Liao

Plane : X

Remark : Metical

	Freq	Level	Level	Line	Limit	Factor	Remark
16 1	MHz	dBm/m	dBm	dBm/m	dB	dB/m	(i)
1 pp	54.30	-44.16	-38.96	-13.00	-31.16	-5.20	Peak
2	108.30	-59.66	-49.07	-13.00	-46.66	-10.59	Peak
3	207.12	-65.00	-57.40	-13.00	-52.00	-7.60	Peak
4	423.20	-70.42	-65.37	-13.00	-57.42	-5.05	Peak
5	664.70	-65.48	-66.28	-13.00	-52.48	0.80	Peak

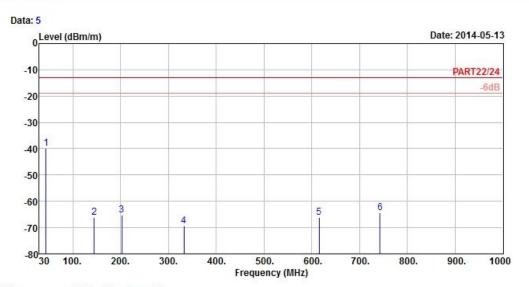
776.70 -63.66 -65.63 -13.00 -50.66 1.97 Peak



MODE H EDGE:



Bureau Veritas Consumer Products Services Ltd., Taoyuan Branch



Site : 966 Chamber 5

Condition: PART22/24 3m HORIZONTAL

Remark : EDGE850 Link Tested by: Johnson Liao

Plane : Z

Remark : Metical

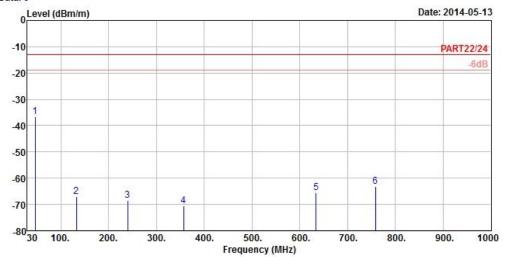
	Freq	Level	Level	Line	Limit	Factor	Remark
168-	MHz	dBm/m	dBm	dBm/m	dB	dB/m	(d)
1 pp	44.04	-39.73	-38.47	-13.00	-26.73	-1.26	Peak
2	144.48	-66.14	-60.16	-13.00	-53.14	-5.98	Peak
3	202.53	-65.13	-57.31	-13.00	-52.13	-7.82	Peak
4	332.20	-69.24	-63.10	-13.00	-56.24	-6.14	Peak
5	615.70	-66.12	-66.05	-13.00	-53.12	-0.07	Peak

743.10 -64.32 -66.06 -13.00 -51.32 1.74 Peak









Site : 966 Chamber 5

Condition: PART22/24 3m VERTICAL

: EDGE850 Link Tested by: Johnson Liao

Plane : Z

Remark : Metical

		Freq	Level	Level	Line	Limit	Factor	Remark	
	ĵi je	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
	pp	46.20	-36.72	-34.39	-13.00	-23.72	-2.33	Peak	
2		132.33	-66.88	-59.14	-13.00	-53.88	-7.74	Peak	
3		239.79	-68.36	-62.20	-13.00	-55.36	-6.16	Peak	
4		356.70	-70.46	-64.50	-13.00	-57.46	-5.96	Peak	
5		633.90	-65.64	-65.90	-13.00	-52.64	0.26	Peak	
6		758.50	-63.16	-65.01	-13.00	-50.16	1.85	Peak	



Please refer to the attached file (Test Setup Photo).				

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6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab: Hsin Chu EMC/RF Lab:

Tel: 886-2-26052180 Tel: 886-3-5935343 Fax: 886-2-26051924 Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232 Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com **Web Site:** www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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7	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB
No	any modifications were made to the EUT by the lab during the test.
E	END

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