



# FCC RADIO TEST REPORT

**FCC ID** : 2AJN7-LN500EG4Q  
**Equipment** : Convertible PC  
**Brand Name** : Lenovo  
**Model Name** : Lenovo 500e Yoga Chromebook Gen 4  
**Applicant** : LC Future Center Limited Taiwan Branch  
7F., No.780, Beian Rd., Zhongshan Dist., Taipei 104, Taiwan  
**Manufacturer** : Lenovo PC HK Limited  
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay,  
Hong Kong, P.R. China  
**Standard** : FCC 47 CFR Part 2, 22(H), 24(E), 27(L)

Equipment: Quectel EM060K-GL tested inside of Lenovo Convertible PC.

The product was received on Nov. 14, 2023 and testing was performed from Dec. 09, 2023 to Dec. 25, 2023. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

*Sporton International Inc. Wensan Laboratory*



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## Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
	§22.913 (a)(5)	Effective Radiated Power (WCDMA Band V)		
	§24.232 (c)	Equivalent Isotropic Radiated Power (WCDMA Band II)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (WCDMA Band IV)		
-	§24.232 (d)	Peak-to-Average Ratio	-	See Note
-	§2.1049 §22.917 (b) §24.238 (b) §27.53 (g)	Occupied Bandwidth (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Band Edge Measurement (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1051 §22.917 (a) §24.238 (a) §27.53 (g)	Conducted Emission (WCDMA Band V) (WCDMA Band II) (WCDMA Band IV)	-	See Note
-	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	-	See Note
4.4	§2.1053 §22.917 (a) §24.238 (a) §27.53 (h)	Field Strength of Spurious Radiation (WCDMA Band V)	Pass	34.20 dB under the limit at 3386.00 MHz

**Note:**

- For host device, Radiated Spurious Emission and Effective Isotropic Radiated Power are verified and comply with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: EM160R-GL).

**Conformity Assessment Condition:**

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.

**Disclaimer:**

- The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.
- The purpose of different model name is for marketing segmentation.

Reviewed by: Sheng Kuo

Report Producer: Ming Chen



# 1 General Description

## 1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Convertible PC
Brand Name	Lenovo
Model Name	Lenovo 500e Yoga Chromebook Gen 4
FCC ID	2AJN7-LN500EG4Q
Sample 1	EUT with Luxshare-ICT Antenna
Sample 2	EUT with ZTX Antenna
Integrated WLAN Module	Brand Name: Intel Model Name: AX211NGW FCC ID: PD9AX211NG
Integrated WLAN Module	Brand Name: MediaTek Model Name: MT7921 FCC ID: RAS-MT7921
EUT supports Radios application	WCDMA/HSPA/LTE/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
EUT Stage	Production Unit

**Remark:**

1. The above EUT's information was declared by manufacturer.
2. Equipment: Quetel EM160R-GL tested inside of Lenovo Convertible PC.

WWAN Antenna Information				
Main Antenna	Manufacturer	Luxshare-ICT	Peak gain (dBi)	WCDMA Band II: -0.60 WCDMA Band IV: 1.20 WCDMA Band V: -2.70
	Part number	DC33001Z820	Type	PIFA
	Manufacturer	ZTX	Peak gain (dBi)	WCDMA Band II: -1.82 WCDMA Band IV: 0.00 WCDMA Band V: -4.39
	Part number	DC33001Z920	Type	PIFA

**Remark:** The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

## 1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
<b>Tx Frequency</b>	<b>WCDMA:</b> Band V: 826.4 MHz ~ 846.6 MHz Band II: 1852.4 MHz ~ 1907.6 MHz Band IV: 1712.4 MHz ~ 1752.6 MHz
<b>Rx Frequency</b>	<b>WCDMA:</b> Band V: 871.4 MHz ~ 891.6 MHz Band II: 1932.4 MHz ~ 1987.6 MHz Band IV: 2112.4 MHz ~ 2152.6 MHz
<b>Maximum Output Power to Antenna</b>	<b>WCDMA:</b> Band V: 23.55 dBm Band II: 23.22 dBm Band IV: 23.33 dBm
<b>Type of Modulation</b>	WCDMA: BPSK (Uplink) HSDPA: 64QAM (Downlink) HSUPA: QPSK (Uplink)

## 1.3 Modification of EUT

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



### 1.4 Testing Location

<b>Test Site</b>	Sporton International Inc. EMC & Wireless Communications Laboratory
<b>Test Site Location</b>	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	TH03-HY (TAF Code: 1190)
<b>Test Engineer</b>	Diego Huang
<b>Temperature (°C)</b>	21.8~23.9
<b>Relative Humidity (%)</b>	50.4~52.8
<b>Remark</b>	The Conducted test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

<b>Test Site</b>	Sporton International Inc. Wensan Laboratory
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
<b>Test Site No.</b>	<b>Sporton Site No.</b>
	03CH12-HY
<b>Test Engineer</b>	Bill Chang and Tim Lee
<b>Temperature (°C)</b>	20~25
<b>Relative Humidity (%)</b>	50~60

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786



## 1.5 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 22(H), 24(E), 27(L)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.





## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in Tablet Type (three orthogonal panels, X: flat, Y: portrait, Z: landscape) and Notebook Type, and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report.

All modes, data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes	
Band	Conducted TCs
WCDMA Band V	■ RMC 12.2Kbps Link
WCDMA Band II	■ RMC 12.2Kbps Link
WCDMA Band IV	■ RMC 12.2Kbps Link

### 2.2 Frequency List of Low/Middle/High Channels

Frequency List				
Band	Channel/Frequency(MHz)	Lowest	Middle	Highest
WCDMA Band V	Channel	4132	4182	4233
	Frequency	826.4	836.4	846.6
WCDMA Band II	Channel	9262	9400	9538
	Frequency	1852.4	1880.0	1907.6
WCDMA Band IV	Channel	1312	1413	1513
	Frequency	1712.4	1732.6	1752.6

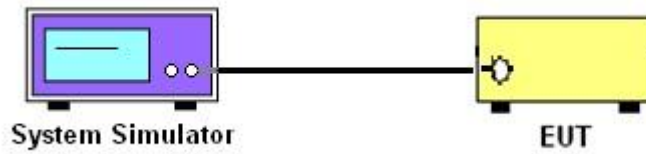
### 3 Conducted Test Result

#### 3.1 Measuring Instruments

See list of measuring instruments of this test report.

##### 3.1.1 Test Setup

##### 3.1.2 Conducted Output Power



##### 3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



## 3.2 Conducted Output Power and ERP/EIRP

### 3.2.1 Description of the Conducted Output Power and ERP/EIRP

A system simulator was used to establish communication with the EUT. Its parameters were set to enforce EUT transmitting at the maximum power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

The ERP of mobile transmitters must not exceed 7 Watts for WCDMA Band V

The EIRP of mobile transmitters must not exceed 2 Watts for WCDMA Band II

The EIRP of mobile transmitters must not exceed 1 Watts for WCDMA Band IV

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

### 3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select the lowest, middle, and the highest channels for each band and different modulation.
4. Measure the maximum burst average power for GSM and maximum average power for other modulation signal.

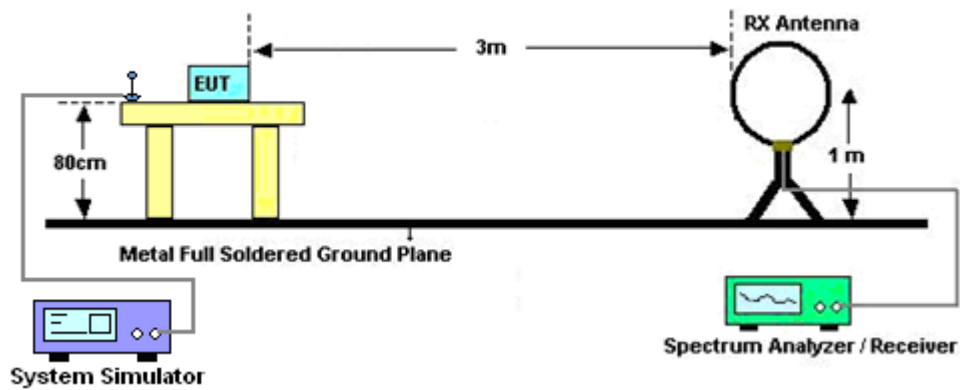
## 4 Radiated Test Items

### 4.1 Measuring Instruments

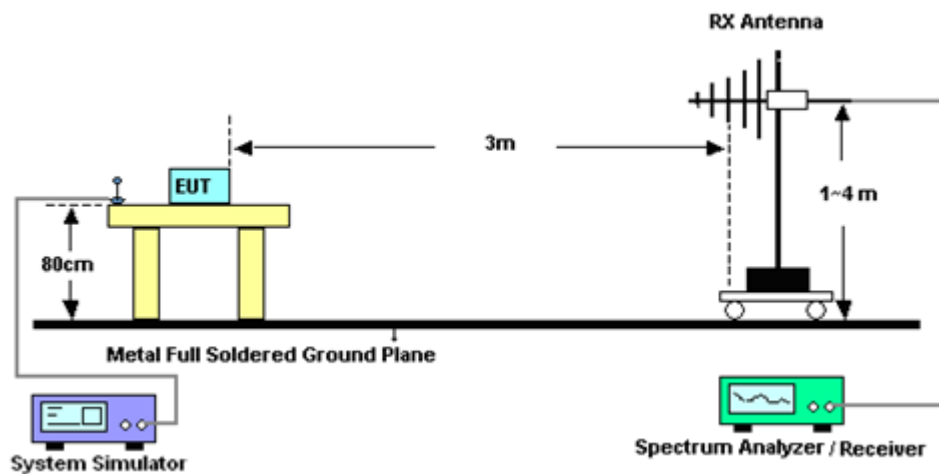
Please refer to the measuring equipment list in this test report.

### 4.2 Test Setup

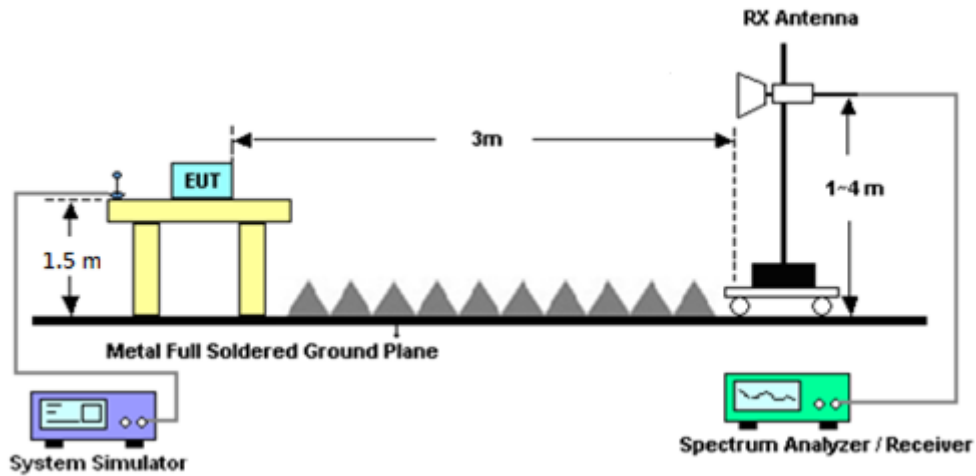
For radiated test below 30MHz



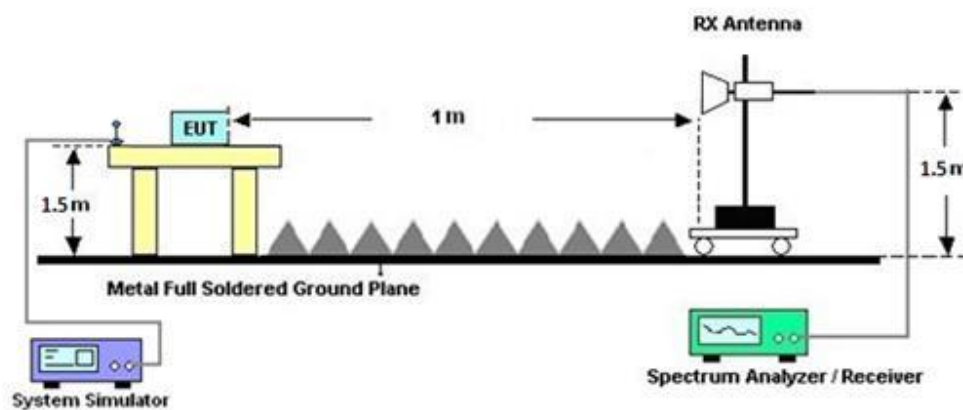
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.

**Note:**

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.



## 4.4 Field Strength of Spurious Radiation Measurement

### 4.4.1 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.

### 4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT is placed on a rotatable wooden table 0.8 meters for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz above the ground.
2. The EUT is set 3 meters away from the receiving antenna, which is mounted on the antenna tower.
3. The table is 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 for the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1 MHz, VBW = 3 MHz, taking record of maximum spurious emission.
6. To convert spectrum reading E(dBuV/m) to EIRP(dBm)  
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
7. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
8. ERP (dBm) = EIRP (dBm) - 2.15
9. The RF fundamental frequency shall be excluded against the limit line in the operating frequency band.

The limit line is derived from  $43 + 10\log(P)$  dB below the transmitter power P(Watts)



## 5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Radio Communication Analyzer	Anritsu	MT8821C	6262025353	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 03, 2023	Dec. 25, 2023	Oct. 02, 2024	Conducted (TH03-HY)
Coupler	Warison	20dB 25W SMA Directional Coupler	#B	1-18GHz	Jan. 06, 2023	Dec. 25, 2023	Jan. 05, 2024	Conducted (TH03-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 28, 2023	Dec. 09, 2023~ Dec. 12, 2023	Feb. 27, 2024	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N- 06	37059 & 01	30MHz~1GHz	Nov. 03, 2023	Dec. 09, 2023~ Dec. 12, 2023	Nov. 02, 2024	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 31, 2023	Dec. 09, 2023~ Dec. 12, 2023	Jul. 30, 2024	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	1224	18GHz~40GHz	Jul. 10, 2023	Dec. 09, 2023~ Dec. 12, 2023	Jul. 09, 2024	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103A	161075	10MHz~1GHz	Mar. 21, 2023	Dec. 09, 2023~ Dec. 12, 2023	Mar. 20, 2024	Radiation (03CH12-HY)
Preamplifier	Agilent	8449B	3008A02375	1GHz~26.5GHz	May 23, 2023	Dec. 09, 2023~ Dec. 12, 2023	May 22, 2024	Radiation (03CH12-HY)
Preamplifier	E-INSTRUMENT TECH LTD.	ERA-100M-18 G-56-01-A70	EC1900249	1GHz-18GHz	Dec. 21, 2022	Dec. 09, 2023~ Dec. 12, 2023	Dec. 20, 2023	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Dec. 09, 2023~ Dec. 12, 2023	Jun. 26, 2024	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Jan. 10, 2023	Dec. 09, 2023~ Dec. 12, 2023	Jan. 09, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-900- 1000-15000-60 SS	SN12	1GHz High Pass Filter	Sep. 11, 2023	Dec. 09, 2023~ Dec. 12, 2023	Sep. 10, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-2700 -3000-18000-6 OST	SN2	3GHz High Pass Filter	Mar. 14, 2023	Dec. 09, 2023~ Dec. 12, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8-5872.5 -6750-18000-4 OST	SN2	6.75GHz High Pass Filter	Mar. 14, 2023	Dec. 09, 2023~ Dec. 12, 2023	Mar. 13, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 07, 2023	Dec. 09, 2023~ Dec. 12, 2023	Mar. 06, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 20, 2022	Dec. 09, 2023~ Dec. 12, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 20, 2022	Dec. 09, 2023~ Dec. 12, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803953/2	30MHz~40GHz	Dec. 20, 2022	Dec. 09, 2023~ Dec. 12, 2023	Dec. 19, 2023	Radiation (03CH12-HY)
Hygrometer	TECEPEL	DTM-303B	TP210117	N/A	Oct. 19, 2023	Dec. 09, 2023~ Dec. 12, 2023	Oct. 18, 2024	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Dec. 09, 2023~ Dec. 12, 2023	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Dec. 09, 2023~ Dec. 12, 2023	N/A	Radiation (03CH12-HY)
Radio Communication Analyzer	Anritsu	MT8821C	6262257866	N/A	May 08, 2023	Dec. 09, 2023~ Dec. 12, 2023	May 07, 2024	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Dec. 09, 2023~ Dec. 12, 2023	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-000989	N/A	N/A	Dec. 09, 2023~ Dec. 12, 2023	N/A	Radiation (03CH12-HY)



## 6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.07 dB
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### Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	3.63 dB
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### Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.14 dB
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## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power) & ERP / EIRP

WCDMA Band V Maximum Average Power [dBm] (GT - LC = -2.7 dB)							
Channel	4132	4182	4233	ERP (dBm)	ERP (W)		
Frequency	826.4	836.4	846.6				
RMC 12.2K	23.40	23.55	23.51	18.70	0.0741		
HSDPA Subtest-1	22.03	22.02	22.00				
HSDPA Subtest-2	22.10	21.99	21.98				
HSDPA Subtest-3	21.52	21.12	21.54				
HSDPA Subtest-4	21.46	21.51	21.48				
HSUPA Subtest-1	22.76	22.74	22.59				
HSUPA Subtest-2	20.78	20.73	20.72				
HSUPA Subtest-3	21.77	21.73	21.68				
HSUPA Subtest-4	20.74	20.64	20.72				
HSUPA Subtest-5	22.70	22.60	22.60				
Limit	ERP < 7W					Result	Pass

WCDMA Band II Maximum Average Power [dBm] (GT - LC = -0.6 dB)							
Channel	9262	9400	9538	EIRP (dBm)	EIRP (W)		
Frequency	1852.4	1880	1907.6				
RMC 12.2K	23.11	23.15	23.22	22.62	0.1828		
HSDPA Subtest-1	22.22	22.35	22.24				
HSDPA Subtest-2	22.22	22.30	22.23				
HSDPA Subtest-3	21.70	21.79	21.71				
HSDPA Subtest-4	21.78	21.85	21.70				
HSUPA Subtest-1	22.33	22.33	22.35				
HSUPA Subtest-2	20.40	20.36	20.23				
HSUPA Subtest-3	21.25	21.32	21.33				
HSUPA Subtest-4	20.32	20.36	20.46				
HSUPA Subtest-5	22.20	22.30	22.30				
Limit	EIRP < 2W					Result	Pass

WCDMA Band IV Maximum Average Power [dBm] (GT - LC = 1.2 dB)							
Channel	1312	1413	1513	EIRP (dBm)	EIRP (W)		
Frequency	1712.4	1732.6	1752.6				
RMC 12.2K	23.23	23.33	23.29	24.53	0.2838		
HSDPA Subtest-1	22.30	22.37	22.33				
HSDPA Subtest-2	22.30	22.43	22.34				
HSDPA Subtest-3	21.77	21.92	21.78				
HSDPA Subtest-4	21.76	21.56	21.83				
HSUPA Subtest-1	22.35	22.45	22.44				
HSUPA Subtest-2	20.28	20.51	20.46				
HSUPA Subtest-3	21.19	21.48	21.43				
HSUPA Subtest-4	20.42	20.50	20.30				
HSUPA Subtest-5	22.20	22.30	22.30				
Limit	EIRP < 1W					Result	Pass



## Appendix B. Test Results of Radiated Test

### B1. Summary of each worse mode

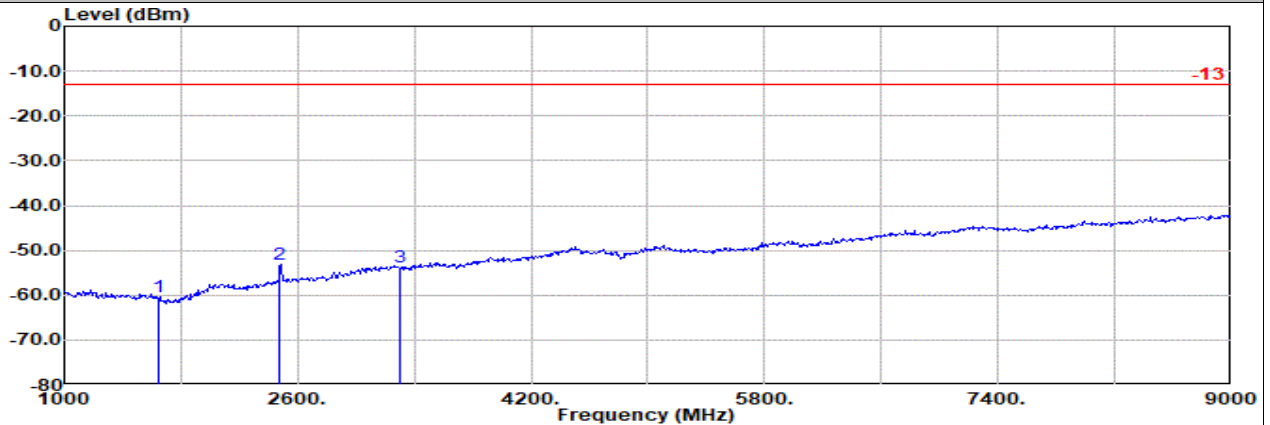
Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	Amp\Cbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 22H	WCDMA B5	H	3386	-47.20	RMS	29.70	-24.67	0.56	-95.23	42.44	-13.00	-34.20	V	Main



Main

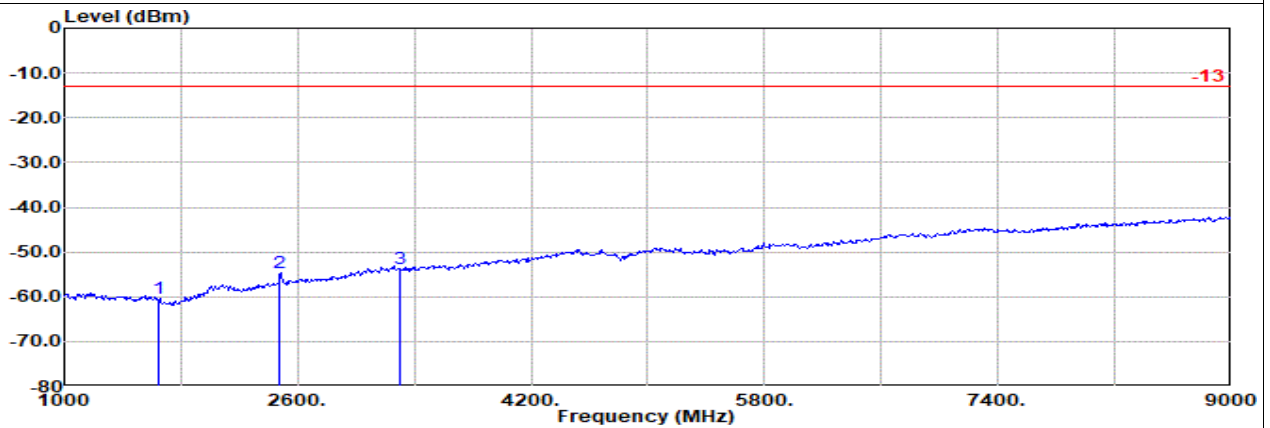
Part 22H Mode 1  
WCDMA B5 Ch4132

L



Site : 03CH12-HY  
Condition: -13 3m 9120D-02114-230731 Horizontal  
: WCDMA Band 5 Ch4132

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Reading	Limit	Margin	Pol	
				Factor	1						dB
	MHz	dBm		dB/m	dB	dB	dB	dBm	dB		
1	1652.00	-60.38	RMS	25.40	-28.27	0.88	-95.23	36.84	-13.00	-47.38	Horizontal
2	2479.00	-53.03	RMS	27.89	-26.77	0.70	-95.23	40.38	-13.00	-40.03	Horizontal
3	3305.00	-53.84	RMS	29.79	-24.94	0.56	-95.23	35.98	-13.00	-40.84	Horizontal



Site : 03CH12-HY  
Condition: -13 3m 9120D-02114-230731 Vertical  
: WCDMA Band 5 Ch4132

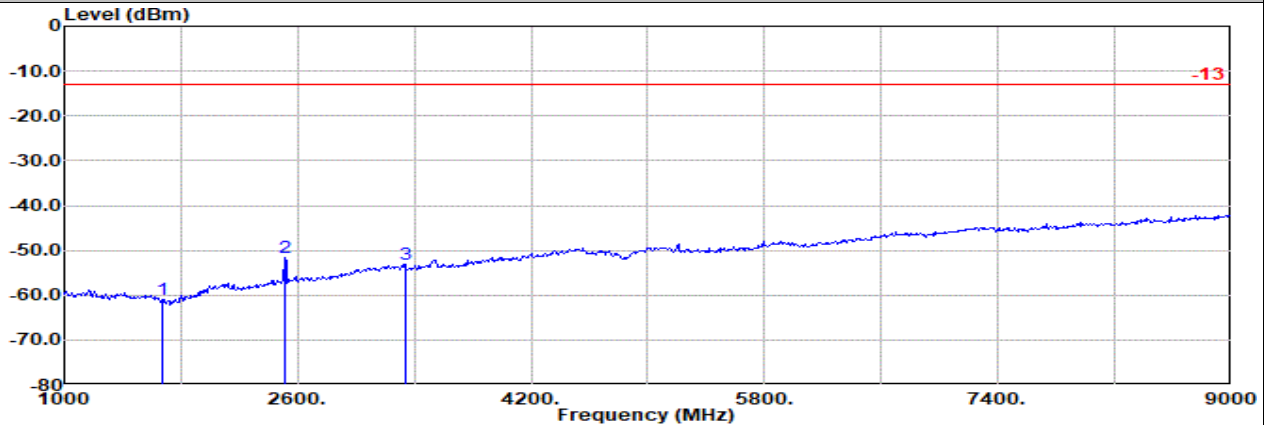
	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Reading	Limit	Margin	Pol	
				Factor	1						dB
	MHz	dBm		dB/m	dB	dB	dB	dBm	dB		
1	1652.00	-60.44	RMS	25.40	-28.27	0.88	-95.23	36.78	-13.00	-47.44	Vertical
2	2479.00	-54.51	RMS	27.89	-26.77	0.70	-95.23	38.90	-13.00	-41.51	Vertical
3	3305.00	-53.78	RMS	29.79	-24.94	0.56	-95.23	36.04	-13.00	-40.78	Vertical



Main

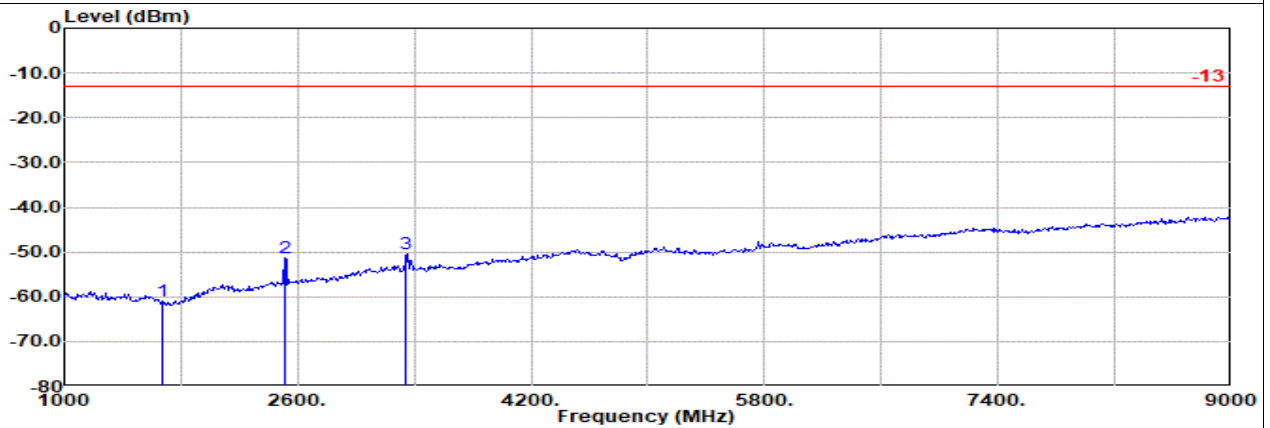
Part 22H Mode 1  
WCDMA B5 Ch4182

M



Site : 03CH12-HY  
Condition: -13 3m 9120D-02114-230731 Horizontal  
: WCDMA Band 5 Ch4182

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Reading	Limit	Margin		Pol	
			Factor	1				dB	dB		dBm
1	1672.00	-60.99	RMS	25.40	-28.23	0.86	-95.23	36.21	-13.00	-47.99	Horizontal
2	2509.00	-51.62	RMS	28.09	-26.72	0.69	-95.23	41.55	-13.00	-38.62	Horizontal
3	3345.00	-53.15	RMS	29.71	-24.80	0.56	-95.23	36.61	-13.00	-40.15	Horizontal



Site : 03CH12-HY  
Condition: -13 3m 9120D-02114-230731 Vertical  
: WCDMA Band 5 Ch4182

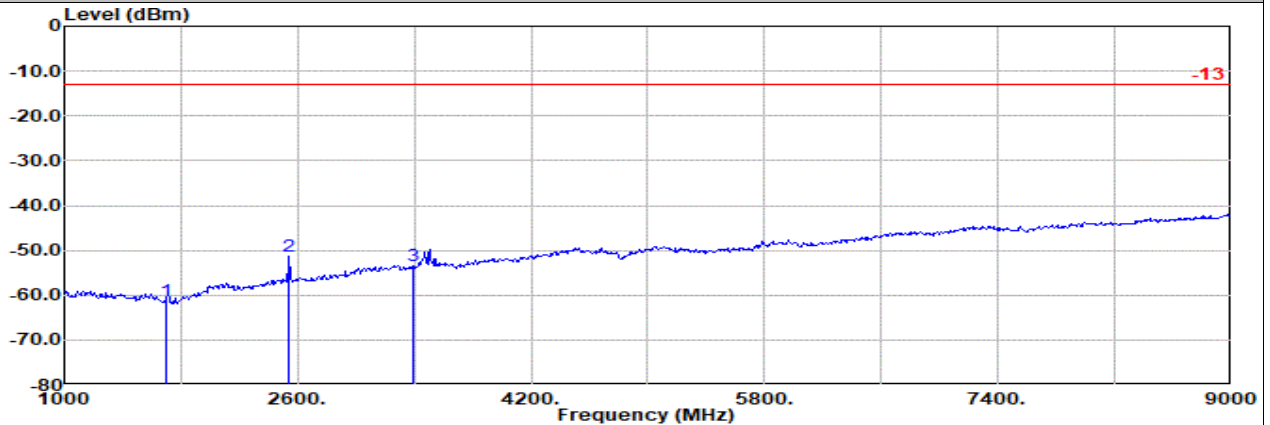
Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Reading	Limit	Margin		Pol	
			Factor	1				dB	dB		dBm
1	1672.00	-61.07	RMS	25.40	-28.23	0.86	-95.23	36.13	-13.00	-48.07	Vertical
2	2509.00	-51.46	RMS	28.09	-26.72	0.69	-95.23	41.71	-13.00	-38.46	Vertical
3	3345.00	-50.41	RMS	29.71	-24.80	0.56	-95.23	39.35	-13.00	-37.41	Vertical



Main

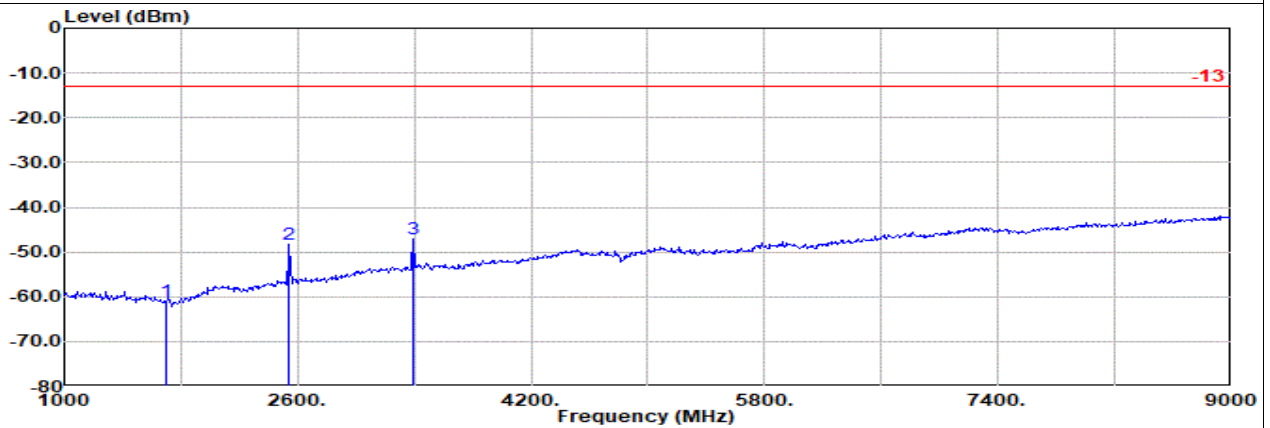
Part 22H Mode 1  
WCDMA B5 Ch4233

H



Site : 03CH12-HY  
Condition: -13 3m 9120D-02114-230731 Horizontal  
: WCDMA Band 5 Ch4233

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Reading	Limit	Margin		Pol	
			Factor	1				dB	dB		dBm
1	1693.00	-61.33	RMS	25.27	-28.18	0.83	-95.23	35.98	-13.00	-48.33	Horizontal
2	2539.00	-51.22	RMS	28.20	-26.66	0.67	-95.23	41.80	-13.00	-38.22	Horizontal
3	3386.00	-53.39	RMS	29.70	-24.67	0.56	-95.23	36.25	-13.00	-40.39	Horizontal

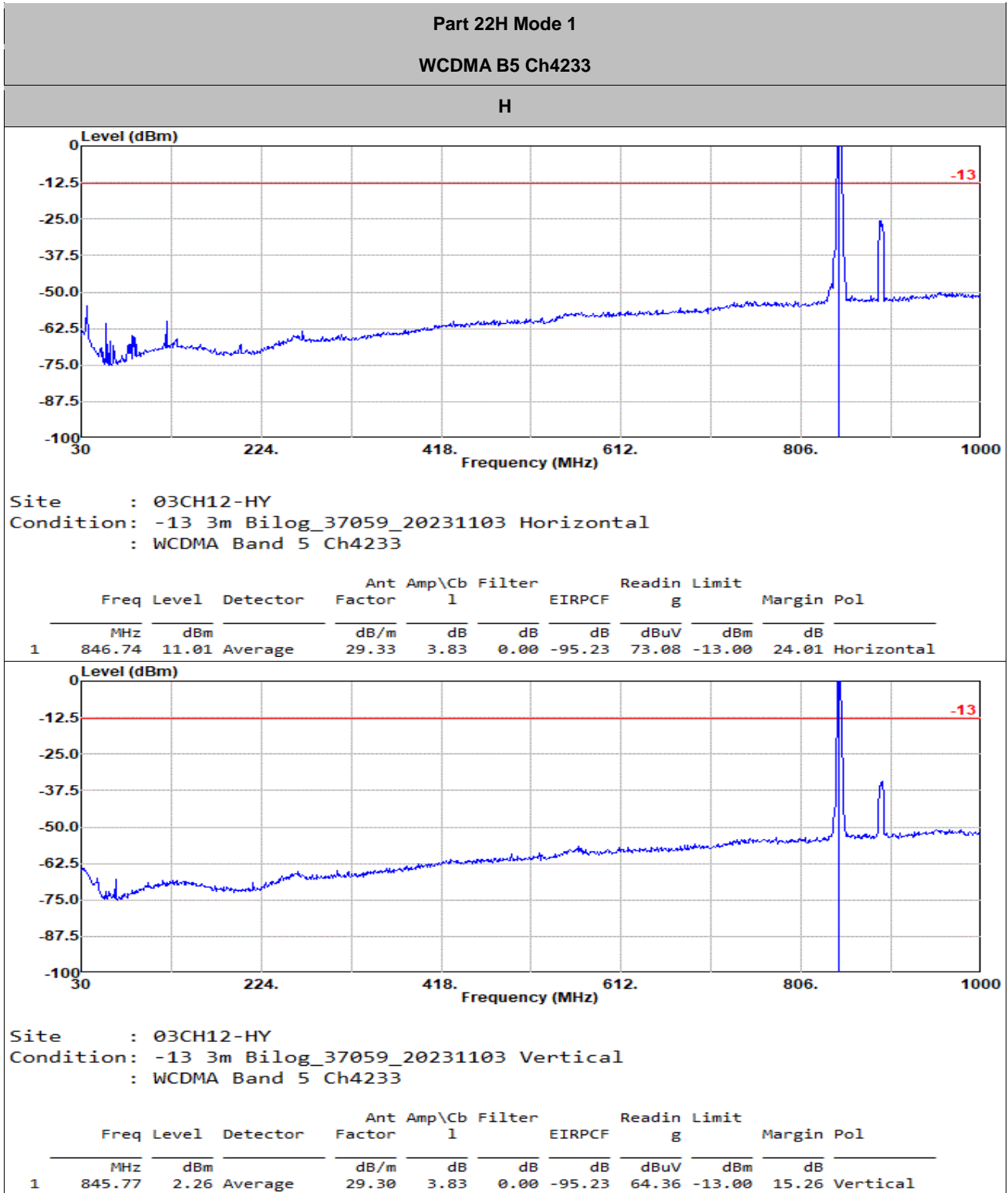


Site : 03CH12-HY  
Condition: -13 3m 9120D-02114-230731 Vertical  
: WCDMA Band 5 Ch4233

Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Reading	Limit	Margin		Pol	
			Factor	1				dB	dB		dBm
1	1693.00	-60.86	RMS	25.27	-28.18	0.83	-95.23	36.45	-13.00	-47.86	Vertical
2	2539.00	-48.44	RMS	28.20	-26.66	0.67	-95.23	44.58	-13.00	-35.44	Vertical
3	3386.00	-47.20	RMS	29.70	-24.67	0.56	-95.23	42.44	-13.00	-34.20	Vertical



Main



Note: The signal falling beyond 806MHz, which is the fundamental signal, can be ignored.