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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

Manufacturer: HP Inc.

1501 Page Mill Road, Palo Alto CA 94304 USA

Product Name: Notebook Computer

Brand Name: HP

Model No.: HSN-I61C

Report Number: TERF2311002859ER

FCC ID B94HNI61CPA

Date of EUT Received: November 16, 2023

November 17, 2023~January 10, 2024 **Date of Test:**

Issue Date: January 10, 2024

CHUN-CHIEH, CHEN

Approved By

Chun Chieh Chen

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI ANSI C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E.

The results of this report relate only to the sample identified in this report.

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Revision History										
Report Number	Revision	Description	Issue Date	Revised By	Remark					
TERF2311002859ER	00	Original	January 10, 2024	Celery Wei						

Note:

1 . The remark "*" indicates modification of the report upon requests from certification body.

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GENERAL PRODUCT INFORMATION

Product Description

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	HSN-I61C
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	0003770DBW
Power Supply:	5 /9 /12 /15 /20Vdc from adapter or 11.58Vdc from battery
Integrated WWAN Module:	Brand Name: Fibocom Model Name: FB520
Test Software (Name/Version)	Engineer_Tool / 2.1.0.23

1.2 **Operation Frequency Range**

Operating Frequency (MHz)					
GSM/GPRS/EDGE 850 824.2 - 848.8					
GSM/GPRS/EDGE 1900	1850.2	-	1909.8		

1.3 **Antenna Designation**

Antenna Type	Supplier	Antenna part no.	Mode	Remark	
	Vandar 1	6036B0346901	NB	Ant5	
PIFA	Vendor 1	(00-3302702850)	TB	Ant5	
PIFA	Vandar 2	6036B0345901	NB	Ant5	
Vendor 2		(81ELBA15.G02)	TB	Ant5	
Note: Transmission in frequencies in this test report are only available by the above antenna(s).					

	Fraguerou			Peak Antenna Gain (dBi)			
Modulation	Frequency (MHz) - 824.2 - 848.8		Vendor 1		Vendor 2		
			NB	TB	NB	TB	
			Ant5	Ant5	Ant5	Ant5	
GSM/GPRS/EDGE 850			-1.59	-5.92	-1.33	-5.12	
GSM/GPRS/EDGE 1900	1850.2			0.56	-1.74	0.14	-0.34

Note: Antenna information is provided by the applicant.

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Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E ANSI C63.26-2015 KDB971168 D01 Power Meas license Digital System v03r01 KDB412172 D01 Determining ERP and EIRP v01r01 TS 151 010-1 is used to set, and measure the output power.

1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number
		SAC 1	
		SAC 2	
		SAC 3	
	No 124 Wu Kung Bood Now Toingi	Conduction 1	
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027
	Taipei City, Taiwan.	Conducted 2	1 440027
	raiper Oity, raiwan.	Conducted 3	
		Conducted 4	
		Conducted 5	
SGS Taiwan Ltd.		Conducted 6	
Central RF Lab.		Conduction C	
(TAF code 3702)		SAC C	
		SAC D	
		SAC G	
	No.2, Keji 1st Rd., Guishan District,	Conducted A	
	Taoyuan City, Taiwan 333	Conducted B	TW0028
	ladydair Oity, faiwair 555	Conducted C	
		Conducted D	
		Conducted E	
		Conducted F	
		Conducted G	

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 **Special Accessories**

No special accessories were used during testing.

1.7 **Equipment Modifications**

There was no modifications incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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SYSTEM TEST CONFIGURATION

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 **Test Procedure**

2.3.1 Conducted Measurement at Antenna Port

The EUT is placed on a table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

Radiated Emissions (ERP/EIRP) 2.3.2

The EUT is placed on a turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

2.4 **Measurement Results Explanation Example**

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

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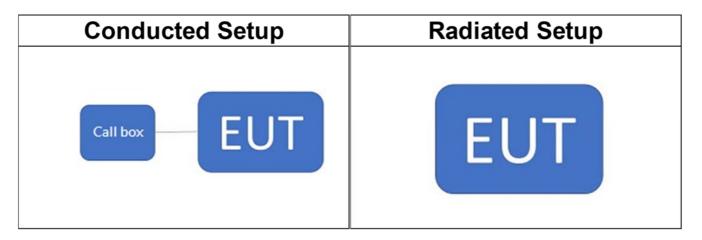
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TEST CONFIGURATION

3.1 Setup diagram



Note: Radio Communication Analyzer is placed in remote side for radiated test.

Control Unit(s) 3.2

Equipment	Mfr/Brand	Model/Type No.	Series No.
Test Software	Audix	e3	Ver. 9.210616

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4 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§22.913(a)(5) §24.232(c)	ERP/ EIRP measurement	Compliant
§2.1053 §22.917(a) §24.238(a)	Field Strength of Spurious Radiation	Compliant

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DESCRIPTION OF TEST MODES

5.1 The Worst Test Modes and Channel Details

- 1. The EUT has been tested under operating condition.
- 2. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

5.2 **Measurement Configuration**

RADIATED EMISSION	GSM	Test Channel		
RADIATED ENITSSION	Bands	L	М	Н
ERP	850	٧	٧	٧
EIRP	1900	٧	٧	٧
RADIATED EMISSION	850	٧	٧	٧
KADIATED EMISSION	1900	٧	٧	٧

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6 MEASUREMENT UNCERTAINTY

Test Items	Und	certair	nty
RF Power Output	+/-	1	dB
EDD/ EIDD magguroment	+/-	2.93	dB
ERP/ EIRP measurement	+/-	2.93	dB
Emission Bandwidth	+/-	1.53	Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/-	1.68	dB
Peak to Average Ratio	+/-	1	dB
Frequency Stability vs. Temperature	+/-	1.53	Hz
Frequency Stability vs. Voltage	+/-	1.53	Hz
Temperature	+/-	0.7	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
Polarization: Vertical	+/-	2.8	dB	9kHz~30MHz	
	+/-	4.82	dB	30MHz - 1000MHz	
	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	dB	18GHz - 40GHz	
Polarization: Horizontal	+/-	2.8	dB	9kHz~30MHz	
	+/-	4.54	dB	30MHz - 1000MHz	
	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	dB	18GHz - 40GHz	

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

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MEASUREMENT EQUIPMENT USED

7.1 **Conducted Measurement**

Conducted Emission Test Site: Conducted 3								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Radio Communication Analyer	Anritsu	MT8815B	6200711454	04/23/2023	04/22/2024			

Radiated Measurement 7.2

		Radiated Emissic	on Test Site: SAC 2		
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/21/2023	07/20/2024
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/11/2023	05/10/2024
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/30/2022	12/29/2023
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/03/2023	07/02/2024
Horn Antenna	RF SPIN	DRH18-E	210303A18-ES	02/24/2023	02/23/2024
Bi-log Antenna	SCHWARZBECK	VULB9168	9168-1278	03/09/2023	03/08/2024
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242392	12/20/2022	12/19/2023
Signal Generator	R&S	SMBV100A	263084	12/29/2022	12/28/2023
Radio Communication Analyer	Anri ts u	MT8815B	6200711454	04/23/2023	04/22/2024
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R
Site Cal	SGS	SAC 2	N/A	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC184045B	980135	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC330N	980826	08/31/2023	08/30/2024
Pre-Amplifier	EMCI	EMC118A45SEE	980867	08/31/2023	08/30/2024
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/13/2022	12/12/2023
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/13/2022	12/12/2023
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	12/13/2022	12/12/2023
3.1GHz High Pass Filter	WI	WFIL-H3100- 18000F-01	WRGBAFWC2B6	12/13/2022	12/12/2023
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/31/2023	08/30/2024
Coaxial Cables	Huber Suhner	SUCOFLEX 102+SUCOFLEX 106	TX Cable 30M-40G 23051/2+76096/6+2 2962/2	08/31/2023	08/30/2024
Coaxial Cables	EMCI	EMC104-SM-SM- 1000+EMC105-SM- SM-1000+EMC105- SM-SM- 1500+EMC104-SM- SM-600+EMC105- SM-SM-2000	RX Cable 9K-18G (220236+201211+22 0906+220237+22090 9)	08/31/2023	08/30/2024

Note: N.C.R refers to Not Calibrated Required.

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8 MAXIMUM OUTPUT POWER

8.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

According to FCC §2.1046

FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

8.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

8.3 Output Power Measurement Applicable Guideance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a communication tester.

Transmitter output was read off the communication tester in dBm.

The power output at the transmitter antenna port was determined by adding the value of the attenuator to the communication tester reading.

TS 151 010-1 is reference to conduct the test measurement of output power.

KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

Conducted average power is obtained from the simulator telecommunication test set.

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Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

 $EIRP = P_T + G_T - L_C$.

ERP= EIRP-2.15.

Where:

ERP or EIRP = effective radiated power or equivalent isotropically radiated power (ex-

> pressed in the same units as PT, typically dBW, dBm, or power spectral density (PSD)2), relative to either a dipole antenna (ERP) or an

isotropic antenna (EIRP);

= transmitter output power, expressed in dBW, dBm, or PSD; P_{T}

Gт = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

= signal attenuation in the connecting cable between the transmitter and Lc

antenna, in dB.

8.5 **Measurement Results**

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	СН	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
CDDC	824.2	128	32.57	-1.33	29.09	31.24	38.50	-7.26
GPRS 850	836.6	190	32.38	-1.33	28.90	31.05	38.50	-7.45
000	848.8	251	32.55	-1.33	29.07	31.22	38.50	-7.28
CDDC	1850.2	512	29.18	0.56	27.59	29.74	33.00	-3.26
GPRS 1900	1880.0	661	29.22	0.56	27.63	29.78	33.00	-3.22
1700	1909.8	810	29.63	0.56	28.04	30.19	33.00	-2.81
EDGE	824.2	128	26.40	-1.33	22.92	25.07	38.50	-13.43
EDGE 850	836.6	190	26.37	-1.33	22.89	25.04	38.50	-13.46
030	848.8	251	26.24	-1.33	22.76	24.91	38.50	-13.59
FDCF	1850.2	512	25.32	0.56	23.73	25.88	33.00	-7.12
EDGE 1900	1880.0	661	25.46	0.56	23.87	26.02	33.00	-6.98
1700	1909.8	810	25.71	0.56	24.12	26.27	33.00	-6.73

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FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

9.1 Standard Applicable

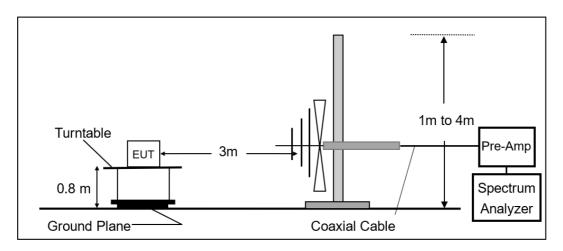
According to FCC §2.1053,

FCC §22.917(a), §24.238(a)

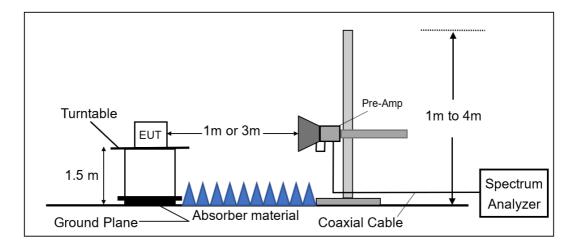
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

9.2 **EUT Setup**

Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.



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9.3 Measurement Procedure:

The EUT was placed on a non-conductive; the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequencies (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

ERP (dBm) = SG Level(dBm) + Antenna Gain(dBd) + Cable Loss(dB)

EIRP (dBm) = SG Level(dBm) + Antenna Gain(dBi) + Cable Loss(dB)

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9.4 Measurement Result:

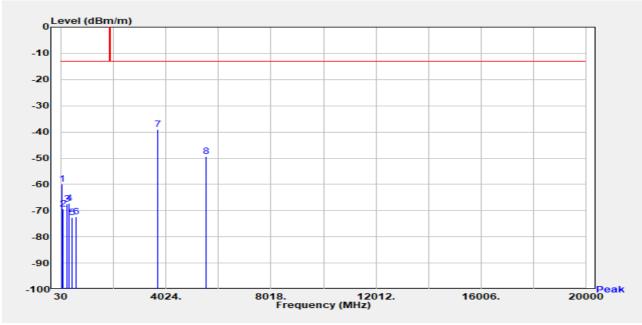
Vendor 1

Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 1900 Test Date :2023-11-28
Test Mode :Tx Temp./Humi. :24.8°C/64%

EUT Pol :NB Plane Antenna Pol. :Vertical

Test Frequency :1850.2 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
43.580	-59.94	- 46.80	-12.39	-0.76	-13.00	-46.94
94.020	-69.29	-67.64	-0.56	-1.09	-13.00	-56.29
257.950	-67.39	-69.83	4.19	-1.76	-13.00	-54.39
311.300	-67.07	-69.24	4.09	-1.93	-13.00	-54.07
430.610	-72.58	-74.26	3.95	-2.27	-13.00	-59.58
592.600	-72.24	-73.36	3.78	-2.66	-13.00	-59.24
3700.400	-39.12	-45.05	12.60	-6.66	-13.00	-26.12
5550.600	-49.22	-54.23	13.20	-8.20	-13.00	-36.22

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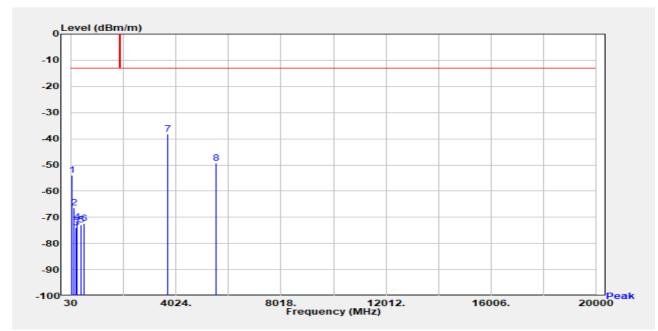
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 1900 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Horizontal

Test Frequency :1850.2 MHz Engineer :Eason Wang



	Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
_	MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
	43.580	-53.83	-40.69	-12.39	-0.76	-13.00	-40.83
	128.940	-66.52	-40.09 -64.04	-12.39 -1.22	-0.76 -1.26	-13.00	- 4 0.83 -53.52
	197.810	-74.06	-76.42	3.90	-1.55	-13.00	-61.06
	262.800	-71.83	-74.21	4.16	-1.78	-13.00	-58.83
	381.140	-72.96	-75.01	4.18	-2.13	-13.00	-59.96
	497.540	-72.40	-74.18	4.22	-2.44	-13.00	-59.40
	3700.400	-38.30	-44.24	12.60	-6.66	-13.00	-25.30
	5550.600	-49.29	-54.29	13.20	-8.20	-13.00	-36.29

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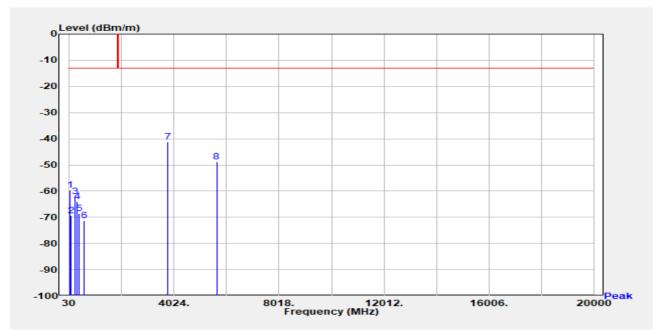
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 1900 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Vertical

Test Frequency :1880 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-59.58	- 46.53	-12.28	-0.77	-13.00	-46.58
94.990	-69.50	-67.83	-0.57	-1.10	-13.00	-56.50
250.190	-62.07	-64.38	4.05	-1.74	-13.00	-49.07
306.450	-64.04	-66.27	4.15	-1.92	-13.00	-51.04
389.870	-68.63	-70.58	4.10	-2.16	-13.00	-55.63
596.480	-71.32	-72.42	3.76	-2.66	-13.00	-58.32
3760.000	-41.18	-46.93	12.46	-6.71	-13.00	-28.18
5640.000	-48.77	-53.93	13.48	-8.31	-13.00	-35.77

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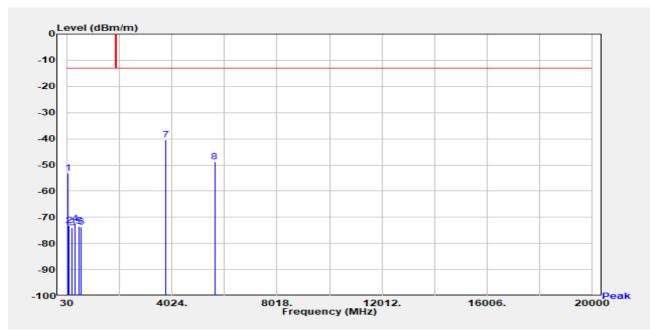
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 1900 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8°C/64%

EUT Pol :NB Plane Antenna Pol. :Horizontal

Test Frequency :1880 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG Output Laval	Antenna	Cable	Limit	Margin
MHz	dBm	Output Level dBm	Gain dBi/dBd	Loss dB	dBm	dB
40.500	50.40	20.00	40.00	0.70	40.00	40.40
43.580	-53.13	-39.98	-12.39	-0.76	-13.00	-40.13
94.020	-73.06	-71.41	- 0.56	-1.09	-13.00	-60.06
198.780	-73.96	-76.44	4.03	-1.55	-13.00	-60.96
305.480	-72.25	-74.50	4.16	-1.91	-13.00	-59.25
461.650	-73.54	-75.20	4.00	-2.34	-13.00	-60.54
566.410	-73.67	-75.24	4.16	-2.59	-13.00	-60.67
3760.000	-40.27	-46.02	12.46	-6.71	-13.00	-27.27
5640.000	-48.88	-54.05	13.48	-8.31	-13.00	-35.88

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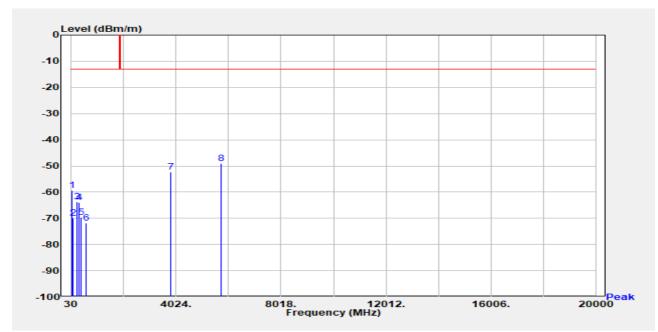
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 1900 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Vertical

Test Frequency :1909.8 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-59.33	-46.28	-12.28	-0.77	-13.00	-46.33
91.110	-69.90	-68.21	-0.63	-1.06	-13.00	-56.90
246.310	-63.76	-66.01	3.98	-1.73	-13.00	-50.76
305.480	-63.83	-66.08	4.16	-1.91	-13.00	-50.83
399.570	-69.78	-71.81	4.21	-2.18	-13.00	-56.78
599.390	-71.81	-72.90	3.74	-2.66	-13.00	-58.81
3819.600	0 -52.40	-57.94	12.30	-6.76	-13.00	-39.40
5729.400	0 -49.03	-53.89	13.24	-8.39	-13.00	-36.03

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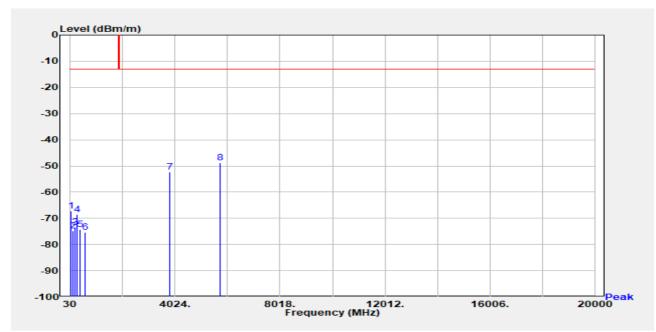
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 1900 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Horizontal

Test Frequency :1909.8 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-67.21	-54.17	-12.28	-0.77	-13.00	-54.21
129.910	-74.76	-71.98	-1.51	-1.27	-13.00	-61.76
205.570	-73.54	-76.23	4.25	-1.56	-13.00	-60.54
267.650	-68.67	-71.00	4.12	-1.80	-13.00	-55.67
392.780	-74.22	-76.16	4.11	-2.17	-13.00	-61.22
599.390	-75.47	-76.55	3.74	-2.66	-13.00	-62.47
3819.600	-52.43	-57.97	12.30	-6.76	-13.00	-39.43
5729.400	-48.87	-53.73	13.24	-8.39	-13.00	-35.87

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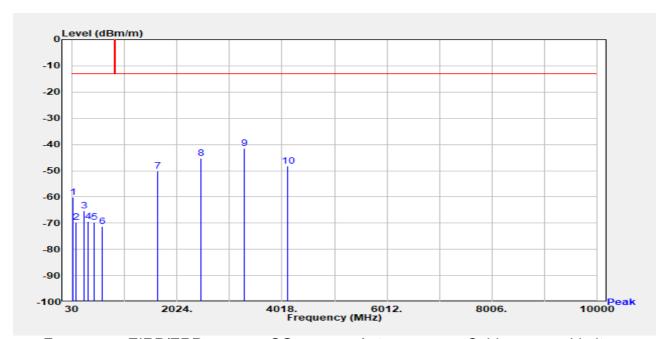
Vendor 2

Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 850 Test Date :2023-11-28 Temp./Humi. :24.8°C/64% Test Mode :Tx

EUT Pol :NB Plane Antenna Pol. :Vertical

Test Frequency :824.2 MHz :Eason Wang Engineer



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-60.11	-47.06	-12.28	-0.77	-13.00	-47.11
94.990	-69.69	-68.02	-0.57	-1.10	-13.00	-56.69
256.980	-65.28	-67.73	4.20	-1.75	-13.00	-52.28
321.970	-69.48	-71.57	4.06	-1.96	-13.00	-56.48
444.190	-69.68	-71.33	3.95	-2.30	-13.00	-56.68
592.600	-71.30	-72.43	3.78	-2.66	-13.00	-58.30
1648.400	-50.22	- 55.39	9.50	-4.33	-13.00	-37.22
2472.600	-45.14	-50.25	10.50	-5.39	-13.00	-32.14
3296.800	-41.44	-47.44	12.26	-6.27	-13.00	-28.44
4121.000	-48.26	- 53.79	12.56	-7.03	-13.00	-35.26

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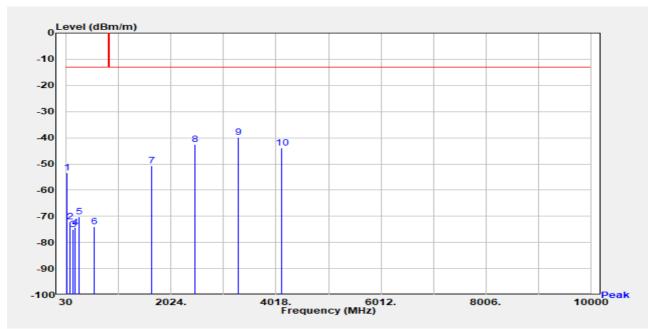
Report Number Test Site :SAC 2 :TERF2311002859ER

Operation Mode :GPRS 850 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8°C/64%

EUT Pol Antenna Pol. :Horizontal :NB Plane

Engineer :Eason Wang **Test Frequency** :824.2 MHz



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-53.46	-40.41	-12.28	-0.77	-13.00	-40.46
91.110	-72.03	-70.34	-0.63	-1.06	-13.00	-59.03
154.160	-75.00	-72.04	-1.59	-1.37	-13.00	-62.00
201.690	-74.19	-76.71	4.07	-1.55	-13.00	-61.19
262.800	-70.29	-72.67	4.16	-1.78	-13.00	-57.29
565.440	-74.00	-75.61	4.20	-2.59	-13.00	-61.00
1648.400	-50.79	-55.96	9.50	-4.33	-13.00	-37.79
2472.600	-42.59	-47.70	10.50	-5.39	-13.00	-29.59
3296.800	-39.80	-45.79	12.26	-6.27	-13.00	-26.80
4121.000	-43.95	-49.47	12.56	-7.03	-13.00	-30.95

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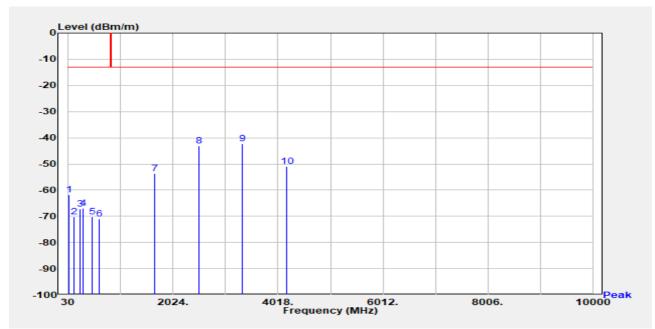
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 850 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Vertical

Test Frequency :836.6 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
43.580	-61.71	-48.56	-12.39	-0.76	-13.00	-48.71
128.940	-70.25	-67.77	-1.22	-1.26	-13.00	-57.25
256.010	-67.24	-69.69	4.20	-1.75	-13.00	-54.24
308.390	-66.81	-69.01	4.13	-1.92	-13.00	-53.81
488.810	-70.32	-71.99	4.08	-2.42	-13.00	-57.32
610.060	-71.03	-71.94	3.59	-2.68	-13.00	-58.03
1673.200	-53.55	-59.02	9.83	- 4.36	-13.00	-40.55
2509.800	-42.96	-48.13	10.60	-5.44	-13.00	-29.96
3346.400	-42.40	-48.66	12.58	-6.32	-13.00	-29.40
4183.000	-50.97	-56.52	12.63	-7.09	-13.00	-37.97

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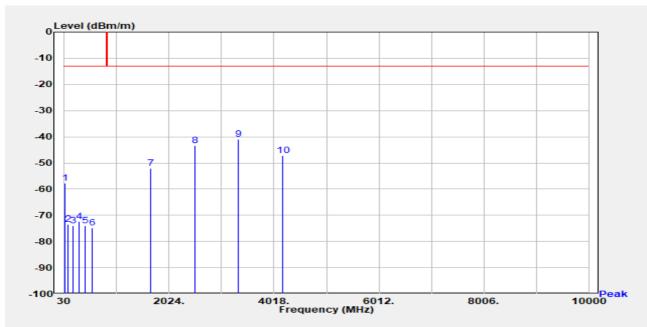
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 850 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Horizontal

Test Frequency :836.6 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
43.580	- 57.70	-44.56	-12.39	-0.76	-13.00	-44.70
91.110	-73.35	-71.66	-0.63	-1.06	-13.00	-60.35
198.780	-74.02	-76.50	4.03	-1.55	-13.00	-61.02
304.510	-72.25	-74.51	4.17	-1.91	-13.00	-59.25
425.760	-74.04	-75.75	3.95	-2.24	-13.00	-61.04
560.590	-74.75	-76.40	4.24	-2.58	-13.00	-61.75
1673.200	-51.93	-57.40	9.83	-4.36	-13.00	-38.93
2509.800	-43.26	-48.42	10.60	-5.44	-13.00	-30.26
3346.400	-40.86	-47.12	12.58	-6.32	-13.00	-27.86
4183.000	-47.16	-52.71	12.63	-7.09	-13.00	-34.16

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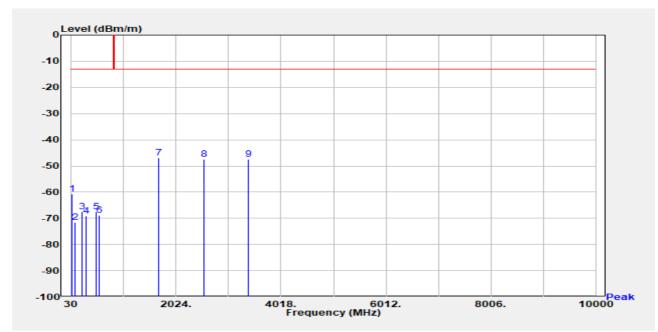
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 850 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Vertical

Test Frequency :848.8 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-60.73	-47.68	-12.28	-0.77	-13.00	-47.73
94.020	-71.54	-69.89	-0.56	-1.09	-13.00	-58.54
236.610	-67.59	-70.09	4.20	-1.69	-13.00	-54.59
315.180	-69.12	-71.24	4.05	-1.94	-13.00	-56.12
500.450	-67.49	-69.29	4.25	-2.45	-13.00	-54.49
562.530	-68.77	-70.41	4.23	-2.59	-13.00	-55.77
1697.600	-46.91	-52.49	9.98	-4.39	-13.00	-33.91
2546.400	-47.33	-52.52	10.66	-5.48	-13.00	-34.33
3395.200	-47.31	-53.55	12.60	-6.36	-13.00	-34.31

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除北京方的时,从现在外面,还可能以为两个。大型化土硕士八司电话还可,不可能以为剩。

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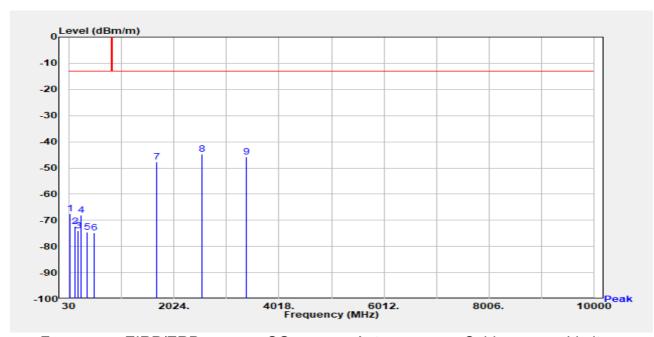
Report Number :TERF2311002859ER Test Site :SAC 2

Operation Mode :GPRS 850 Test Date :2023-11-28

Test Mode :Tx Temp./Humi. :24.8℃/64%

EUT Pol :NB Plane Antenna Pol. :Horizontal

Test Frequency :848.8 MHz Engineer :Eason Wang



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
44.550	-67.41	- 54.36	-12.28	-0.77	-13.00	-54.41
129.910	-72.34	-69.56	-1.51	-1.27	-13.00	-59.34
203.630	-73.90	-76.50	4.16	-1.56	-13.00	-60.90
250.190	-68.12	-70.43	4.05	-1.74	-13.00	-55.12
371.440	-74.49	-76.69	4.32	-2.11	-13.00	-61.49
503.360	-74.69	-76.42	4.19	-2.45	-13.00	-61.69
1697.600	-47.60	-53.19	9.98	-4.39	-13.00	-34.60
2546.400	-44.71	-49.89	10.66	-5.48	-13.00	-31.71
3395.200	-45.83	-52.08	12.60	-6.36	-13.00	-32.83

~ End of Report ~

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