

## ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

**Manufacturer:** CASTLES TECHNOLOGY CO., LTD.  
6F, NO. 207-5, SEC. 3, BEIXIN RD., XINDIAN DISTRICT,  
NEW TAIPEI CITY 23143, TAIWAN (R.O.C)

**Product Name:** Smart module

**Brand Name:**  CASTLES  
TECHNOLOGY

**Model No.:** SLM500

**Model Difference:** N/A

**Report Number:** TERF2210002035E2

**FCC ID** WIYSLM500QA

**IC:** 27350-SLM500QA

**Issue Date:** December 08, 2022

**Date of Test:** November 15, 2022

**Date of EUT Received:** October 20, 2022

**Approved By**



Jay Lin

### 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 C63.26-2015 and the energy emitted by the sample EUT comply with FCC rule part 2, 22H & 24E & 27 C and ISED RSS-Gen, 132, 133, 139.

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
TERF2210002035E2	00	Original.	December 08, 2022	Susan Lin	

**Note:**

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

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

Product Name:	Smart module
Brand Name:	 CASTLES TECHNOLOGY
Model No.:	SLM500
Model Difference:	N/A
Hardware Version:	V1.00
Firmware Version:	N/A
EUT Series No.:	TE_SP_20221007118
Product Name of Host:	POS Terminal
Brand Name of Host:	 CASTLES TECHNOLOGY
Model No. of Host:	S1U2
Power Supply:	9Vdc from Adapter
Test Software (Name/Version):	N/A

### 1.2 Operation Frequency Range

Operating Frequency (MHz)		Operating Frequency (MHz)	
GSM/GPRS/EDGE 850	824.2 - 848.8	WCDMA / HSPA+ Band II	1852.4 - 1907.6
GSM/GPRS/EDGE 1900	1850.2 - 1909.8	WCDMA / HSPA+ Band IV	1712.4 - 1752.6
		WCDMA / HSPA+ Band V	826.4 - 846.6

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### 1.3 Antenna Designation

Antenna Type	Antenna Model No.
Monopole	Ant0
<b>Note:</b> Transmission in frequencies in this test report are only available by the above antenna(s).	

Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
				Ant0
GSM/GPRS/EDGE 850	824.2	-	848.8	1.71
GSM/GPRS/EDGE 1900	1850.2	-	1909.8	3.41
WCDMA / HSPA+ Band II	1852.4	-	1907.6	3.41
WCDMA / HSPA+ Band IV	1712.4	-	1752.6	3.41
WCDMA / HSPA+ Band V	826.4	-	846.6	1.71

**Note:** Antenna information is provided by the applicant.

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## 1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018

ISED RSS-139 Issue 3 July 16, 2015

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

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	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1 SAC 2 SAC 3 Conduction 1 Conducted 1 Conducted 2 Conducted 3 Conducted 4 Conducted 5 Conducted 6	TW0027	
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C SAC C SAC D SAC G Conducted A Conducted B Conducted C Conducted D Conducted E Conducted F Conducted G	TW3702	
		TW0028		

**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.

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## 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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## 2 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 Radiated Emissions (ERP/EIRP)

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 hand-held 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.

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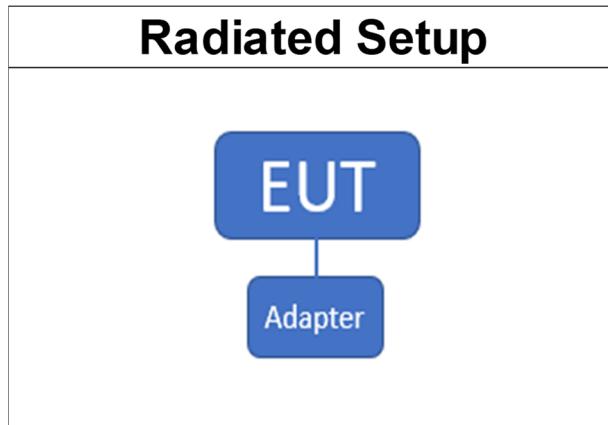
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### 3 TEST CONFIGURATION



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

#### 3.1 Control Unit(s)

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
USB Cable	CHANG YANG ELECTRONICS CO., LTD	CY-AS-HK0059	N/A	N/A	N/A
Adaptor	CASTLE TECHNOLOGY	PW04-945A	N/A	N/A	N/A

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## 4 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1053 §22.917(a) §24.238(a) §27.53(h)	RSS-GEN §6.13 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6	Field Strength of Spurious Radiation	Compliant

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## 5 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 Bands	Test Channel		
		L	M	H
ERP	850	-	-	-
EIRP	1900	-	-	-
FREQUENCY STABILITY	850	-	-	-
	1900	-	-	-
OCCUPIED BANDWIDTH	850	-	-	-
	1900	-	-	-
PEAK TO AVERAGE RATIO	850	-	-	-
	1900	-	-	-
BAND EDGE	850	-	-	-
	1900	-	-	-
CONDUCTED EMISSION	850	-	-	-
	1900	-	-	-
RADIATED EMISSION	850	V	V	V
	1900	V	V	V

Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
ERP	Band V	-	-	-
EIRP	Band II	-	-	-
	Band IV	-	-	-
	Band VI	-	-	-
FREQUENCY STABILITY	Band II	-	-	-
	Band IV	-	-	-
	Band VI	-	-	-
OCCUPIED BANDWIDTH	Band II	-	-	-
	Band IV	-	-	-
	Band VI	-	-	-
PEAK TO AVERAGE RATIO	Band II	-	-	-
	Band IV	-	-	-
	Band VI	-	-	-
BAND EDGE	Band II	-	-	-
	Band IV	-	-	-
	Band VI	-	-	-
CONDUCTED EMISSION	Band II	-	-	-
	Band IV	-	-	-
	Band VI	-	-	-
RADIATED EMISSION	Band II	V	V	V
	Band IV	V	V	V
	Band VI	V	V	V

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## 6 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	+/- 3 dB
	+/- 3 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	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 2.57 dB	9kHz~30MHz
	+/- 4.85 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 2.57 dB	9kHz~30MHz
	+/- 4.37 dB	30MHz - 1000MHz
	+/- 4.45 dB	1GHz - 18GHz
	+/- 4.24 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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## 7 MEASUREMENT EQUIPMENT USED

### 7.1 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	02/15/2022	02/14/2023
Horn Antenna	Schwarzbeck	BBHA9170	184	12/15/2022	12/14/2023
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/08/2022	04/07/2023
3m Site NSA	SGS	966 chamber G	N/A	03/30/2022	03/29/2023
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2022	03/14/2023
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMCCFD400-NM-NM-8000-5000-2000	210216、210217、210218	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC104-SM-SM-8000-5000-5000	210219、210220、210221	03/15/2022	03/14/2023
Coaxial Cable	EMC Instruments	EMC105-NM-NM-5000-15000	210224、210306	03/15/2022	03/14/2023

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

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## 8 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

### 8.1 Standard Applicable

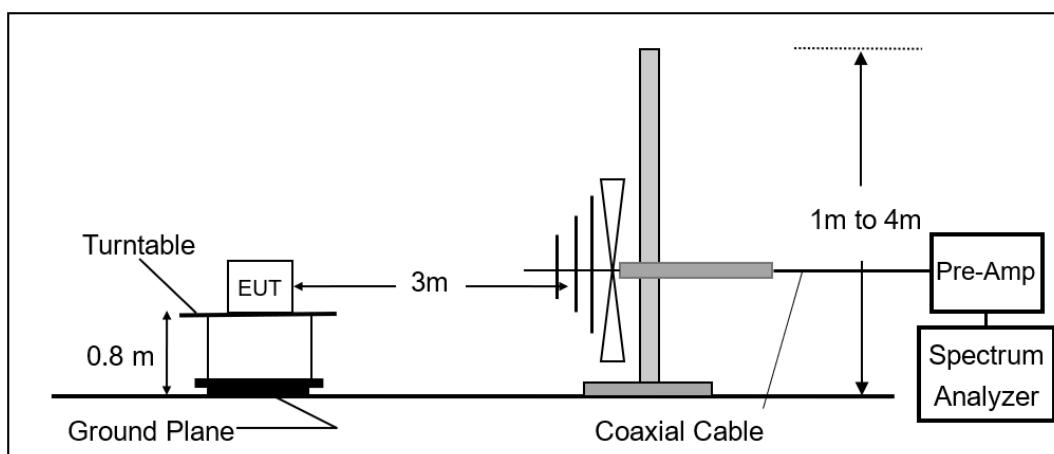
According to FCC §2.1053,

**FCC §22.917(a), §24.238(a), §27.53(h) and RSS-132 §5.5, RSS-133 §6.5.1, RSS-139 §6.6**

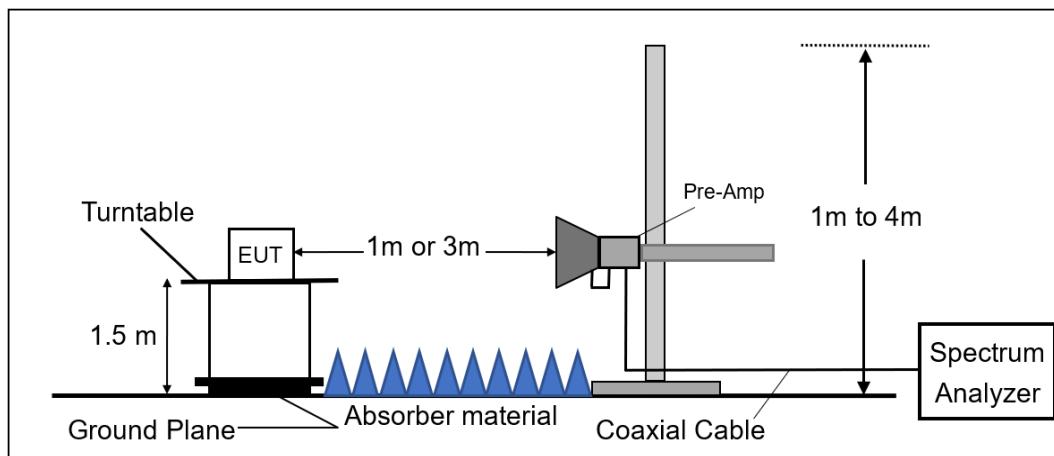
Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

### 8.2 EUT Setup

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



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



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### 8.3 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.

$$\text{ERP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBd)} + \text{Cable Loss(dB)}$$

$$\text{EIRP (dBm)} = \text{SG Level(dBm)} + \text{Antenna Gain(dBi)} + \text{Cable Loss(dB)}$$

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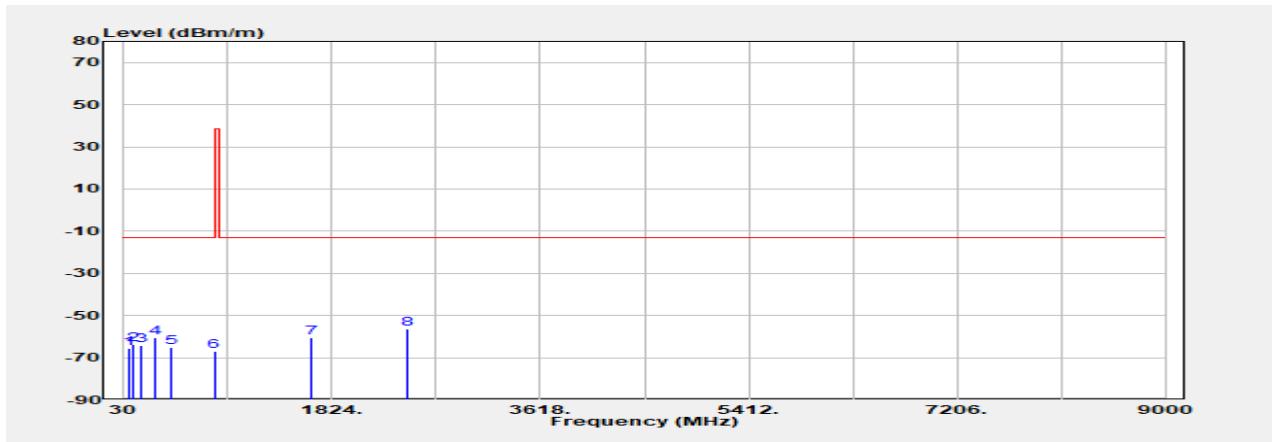
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#### 8.4 Measurement Result:

Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:GPRS850	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:824.2 MHz	Engineer	:Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
68.800	-65.38	-55.68	-7.07	-2.63	-13.00	-52.38
116.330	-63.70	-59.31	-1.63	-2.76	-13.00	-50.70
182.290	-64.34	-63.33	1.90	-2.91	-13.00	-51.34
300.630	-60.36	-61.38	4.21	-3.19	-13.00	-47.36
443.220	-65.09	-66.47	4.09	-2.71	-13.00	-52.09
807.940	-66.94	-67.47	4.21	-3.68	-13.00	-53.94
1648.400	-60.36	-63.54	9.39	-6.21	-13.00	-47.36
2472.600	-56.16	-58.87	10.34	-7.63	-13.00	-43.16

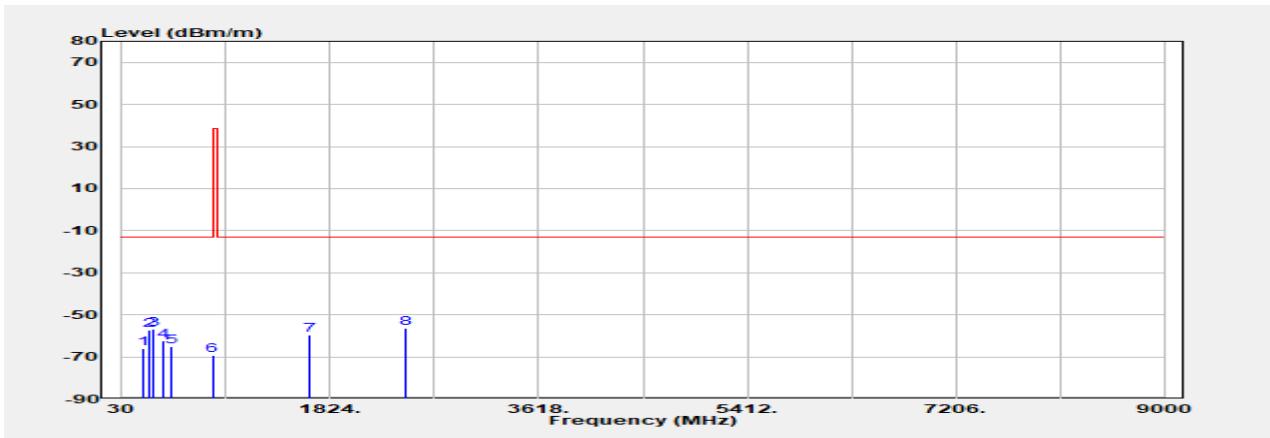
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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :GPRS850 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Horizontal  
 Test Frequency :824.2 MHz Engineer :Temo Chen



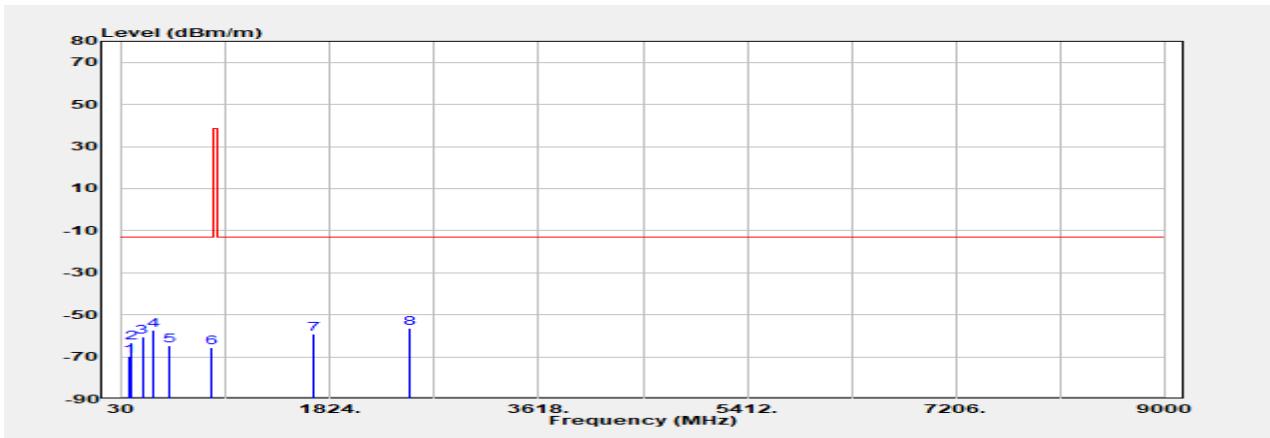
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
205.570	-65.86	-67.40	4.52	-2.98	-13.00	-52.86
261.830	-57.29	-58.56	4.35	-3.08	-13.00	-44.29
297.720	-56.80	-57.77	4.14	-3.17	-13.00	-43.80
382.110	-62.24	-63.78	4.36	-2.82	-13.00	-49.24
455.830	-65.03	-66.47	4.12	-2.68	-13.00	-52.03
807.940	-69.14	-69.67	4.21	-3.68	-13.00	-56.14
1648.400	-59.48	-62.66	9.39	-6.21	-13.00	-46.48
2472.600	-56.26	-58.97	10.34	-7.63	-13.00	-43.26

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Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:GPRS850	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:836.6 MHz	Engineer	:Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
85.290	-69.58	-65.62	-1.33	-2.63	-13.00	-56.58
116.330	-63.18	-58.79	-1.63	-2.76	-13.00	-50.18
204.600	-60.53	-62.04	4.48	-2.97	-13.00	-47.53
299.660	-57.48	-58.48	4.19	-3.19	-13.00	-44.48
437.400	-64.55	-65.76	3.98	-2.77	-13.00	-51.55
804.060	-65.48	-66.00	4.15	-3.63	-13.00	-52.48
1673.200	-59.17	-62.28	9.40	-6.29	-13.00	-46.17
2509.800	-56.15	-59.07	10.58	-7.66	-13.00	-43.15

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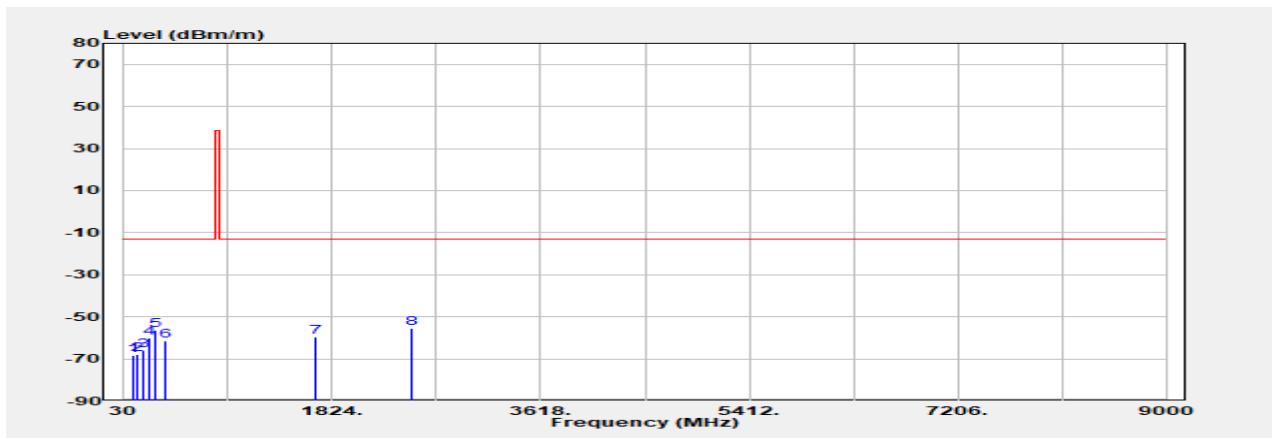
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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :GPRS850 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Horizontal  
 Test Frequency :836.6 MHz Engineer :Temo Chen



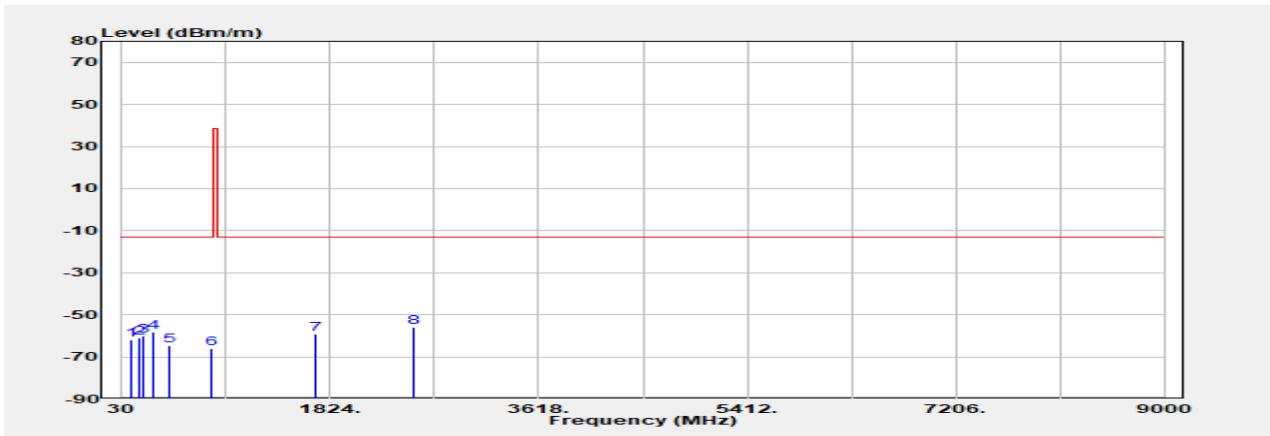
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-68.22	-63.78	-1.69	-2.75	-13.00	-55.22
152.220	-67.72	-63.33	-1.57	-2.82	-13.00	-54.72
203.630	-65.93	-67.40	4.44	-2.97	-13.00	-52.93
246.310	-59.94	-61.19	4.33	-3.08	-13.00	-46.94
298.690	-56.40	-57.38	4.16	-3.18	-13.00	-43.40
382.110	-61.58	-63.12	4.36	-2.82	-13.00	-48.58
1673.200	-59.60	-62.71	9.40	-6.29	-13.00	-46.60
2509.800	-55.59	-58.51	10.58	-7.66	-13.00	-42.59

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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :GPRS850 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Vertical  
 Test Frequency :848.8 MHz Engineer :Temo Chen



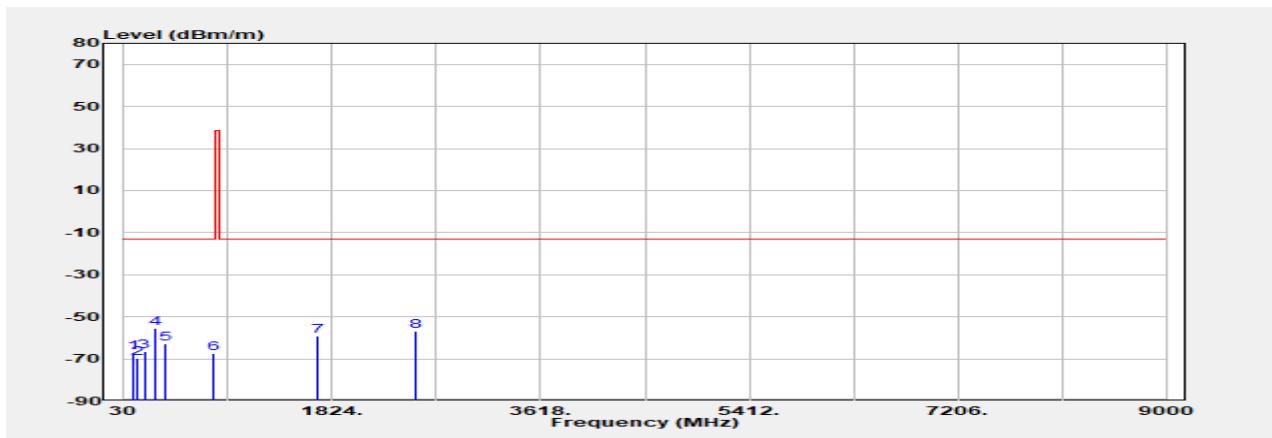
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.360	-62.10	-57.61	-1.73	-2.76	-13.00	-49.10
182.290	-60.76	-59.75	1.90	-2.91	-13.00	-47.76
206.540	-60.19	-61.77	4.56	-2.98	-13.00	-47.19
300.630	-57.99	-59.01	4.21	-3.19	-13.00	-44.99
431.580	-64.63	-65.76	3.93	-2.80	-13.00	-51.63
804.060	-66.18	-66.70	4.15	-3.63	-13.00	-53.18
1697.600	-59.18	-62.26	9.40	-6.32	-13.00	-46.18
2546.400	-56.01	-59.14	10.87	-7.74	-13.00	-43.01

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Operation Mode :GPRS850 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :848.8 MHz Engineer :Temo Chen



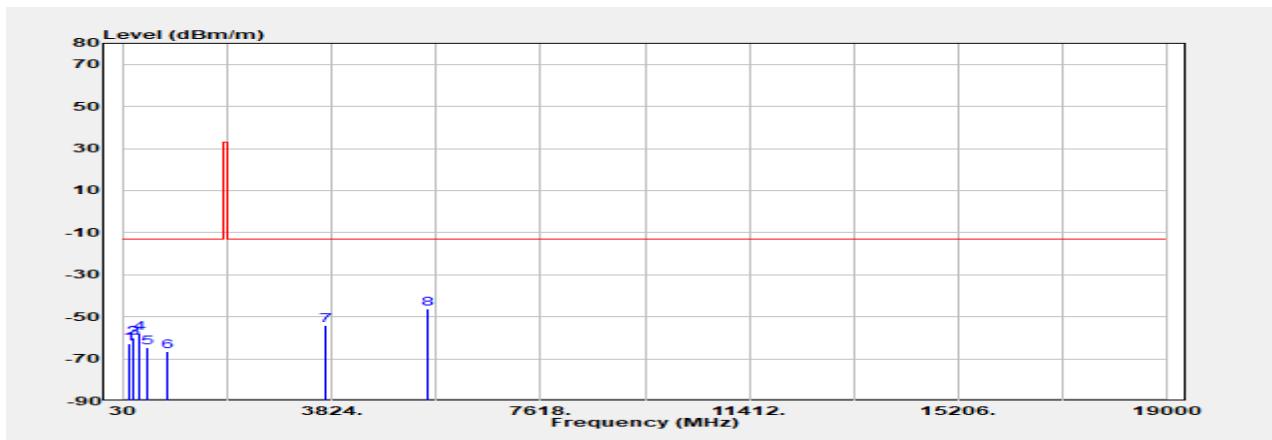
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-66.91	-62.47	-1.69	-2.75	-13.00	-53.91
150.280	-69.55	-65.12	-1.60	-2.83	-13.00	-56.55
204.600	-66.45	-67.96	4.48	-2.97	-13.00	-53.45
297.720	-55.57	-56.54	4.14	-3.17	-13.00	-42.57
381.140	-62.68	-64.22	4.36	-2.82	-13.00	-49.68
804.060	-67.46	-67.98	4.15	-3.63	-13.00	-54.46
1697.600	-59.28	-62.36	9.40	-6.32	-13.00	-46.28
2546.400	-56.65	-59.78	10.87	-7.74	-13.00	-43.65

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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :GPRS1900 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Vertical  
Test Frequency :1850.2 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
115.360	-62.68	-58.19	-1.73	-2.76	-13.00	-49.68
183.260	-59.93	-59.07	2.05	-2.91	-13.00	-46.93
205.570	-59.97	-61.51	4.52	-2.98	-13.00	-46.97
300.630	-57.78	-58.80	4.21	-3.19	-13.00	-44.78
439.340	-64.49	-65.76	4.02	-2.75	-13.00	-51.49
804.060	-66.40	-66.92	4.15	-3.63	-13.00	-53.40
3700.400	-53.86	-56.57	12.20	-9.49	-13.00	-40.86
5550.600	-46.41	-48.09	13.30	-11.62	-13.00	-33.41

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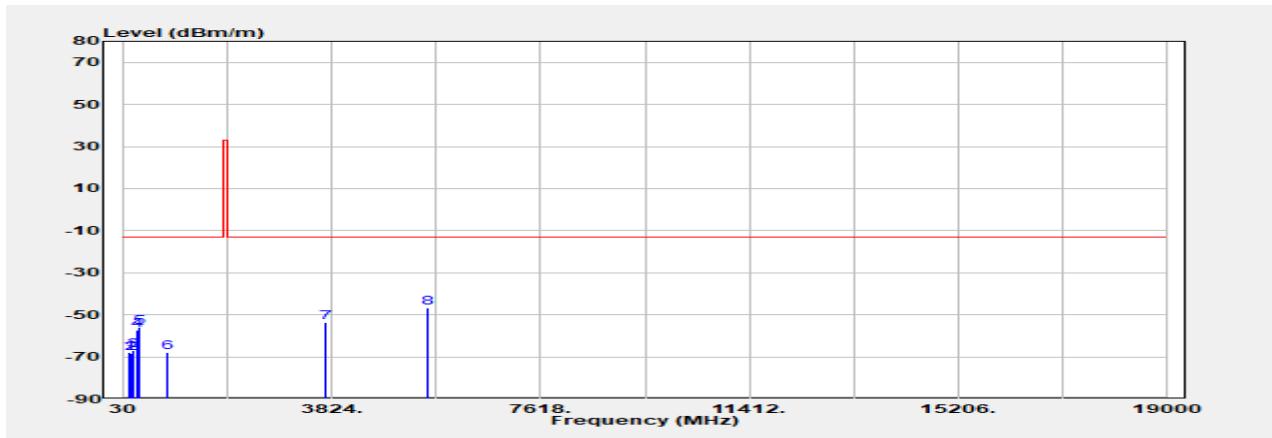
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :GPRS1900 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1850.2 MHz Engineer :Temo Chen



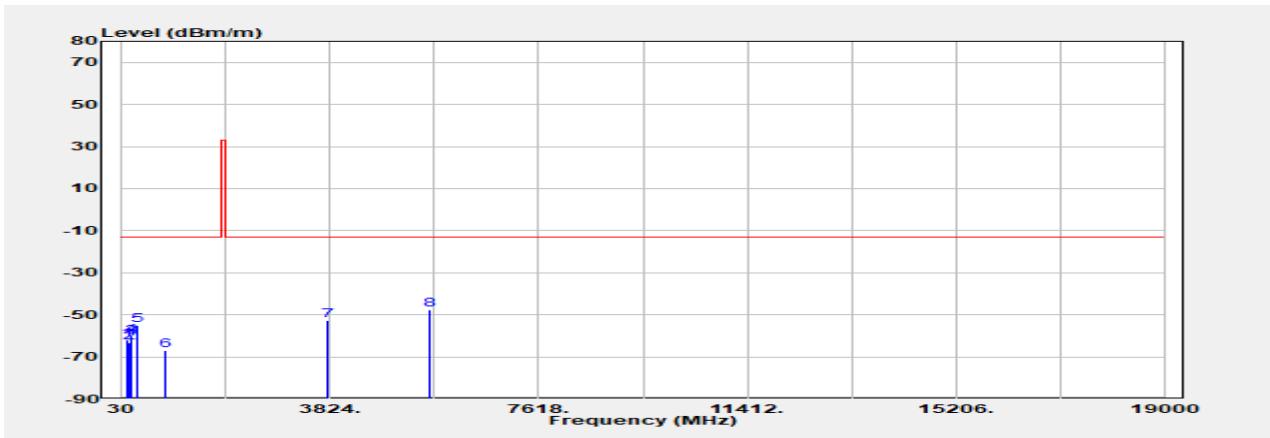
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-67.80	-63.36	-1.69	-2.75	-13.00	-54.80
152.220	-68.41	-64.02	-1.57	-2.82	-13.00	-55.41
183.260	-67.03	-66.17	2.05	-2.91	-13.00	-54.03
264.740	-57.36	-58.60	4.32	-3.08	-13.00	-44.36
296.750	-55.95	-56.90	4.11	-3.16	-13.00	-42.95
806.000	-68.01	-68.54	4.19	-3.66	-13.00	-55.01
3700.400	-53.78	-56.49	12.20	-9.49	-13.00	-40.78
5550.600	-46.82	-48.50	13.30	-11.62	-13.00	-33.82

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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :GPRS1900 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Vertical  
 Test Frequency :1880 MHz Engineer :Temo Chen



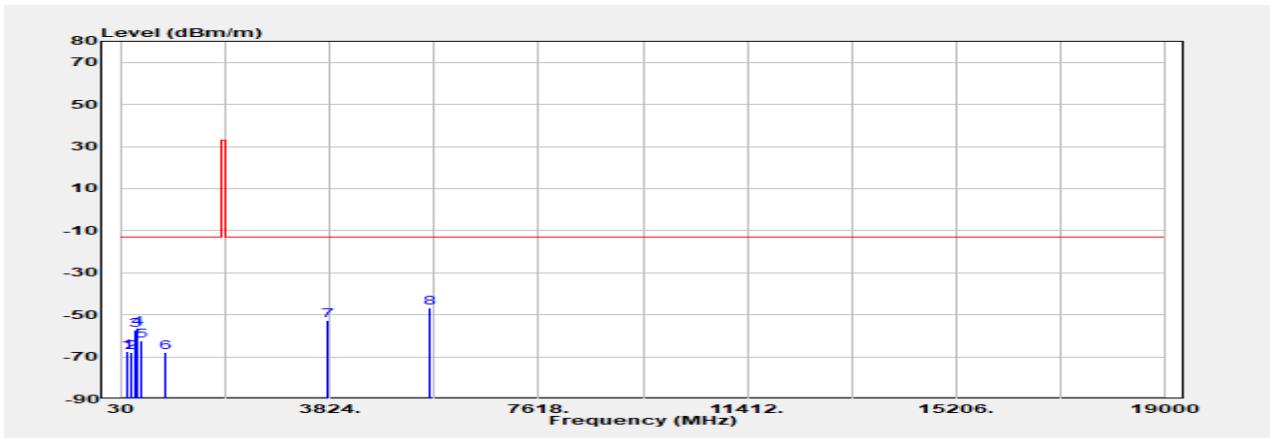
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.450	-61.76	-57.34	-1.67	-2.75	-13.00	-48.76
151.250	-63.11	-58.71	-1.57	-2.83	-13.00	-50.11
182.290	-60.34	-59.33	1.90	-2.91	-13.00	-47.34
207.510	-60.02	-61.64	4.60	-2.98	-13.00	-47.02
296.750	-55.13	-56.08	4.11	-3.16	-13.00	-42.13
804.060	-66.85	-67.37	4.15	-3.63	-13.00	-53.85
3760.000	-52.47	-55.14	12.10	-9.43	-13.00	-39.47
5640.000	-47.45	-49.23	13.46	-11.68	-13.00	-34.45

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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :GPRS1900 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1880 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.480	-67.42	-63.13	-1.54	-2.75	-13.00	-54.42
182.290	-67.85	-66.84	1.90	-2.91	-13.00	-54.85
266.680	-57.42	-58.57	4.24	-3.09	-13.00	-44.42
299.660	-56.43	-57.43	4.19	-3.19	-13.00	-43.43
382.110	-62.17	-63.71	4.36	-2.82	-13.00	-49.17
807.940	-68.06	-68.59	4.21	-3.68	-13.00	-55.06
3760.000	-52.81	-55.48	12.10	-9.43	-13.00	-39.81
5640.000	-46.66	-48.44	13.46	-11.68	-13.00	-33.66

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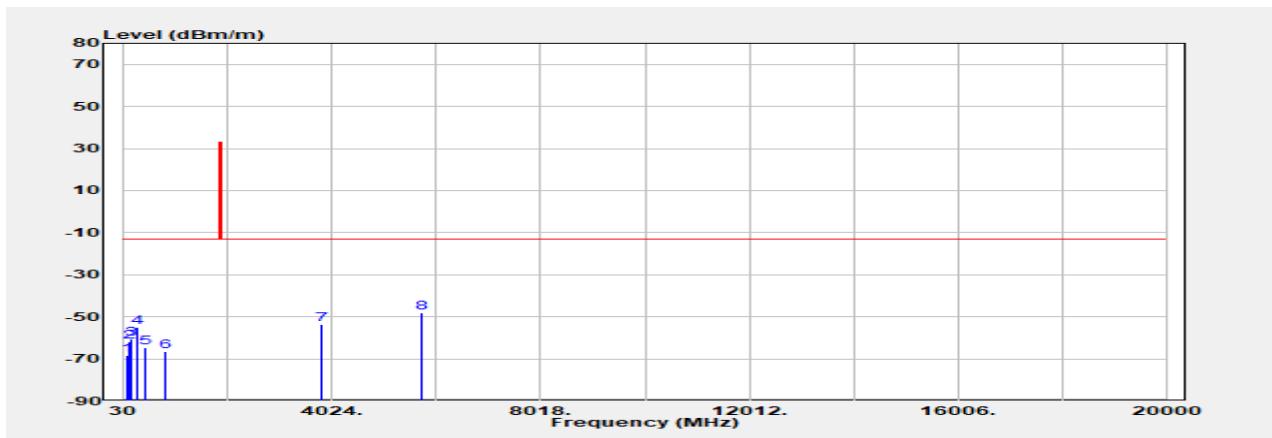
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :GPRS1900 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Vertical  
Test Frequency :1909.8 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
86.260	-68.44	-64.81	-1.00	-2.63	-13.00	-55.44
113.420	-61.93	-57.49	-1.69	-2.75	-13.00	-48.93
182.290	-60.29	-59.28	1.90	-2.91	-13.00	-47.29
300.630	-55.00	-56.02	4.21	-3.19	-13.00	-42.00
438.370	-64.62	-65.86	4.00	-2.76	-13.00	-51.62
807.940	-66.43	-66.96	4.21	-3.68	-13.00	-53.43
3819.600	-53.68	-56.19	12.10	-9.59	-13.00	-40.68
5729.400	-47.88	-49.49	13.34	-11.73	-13.00	-34.88

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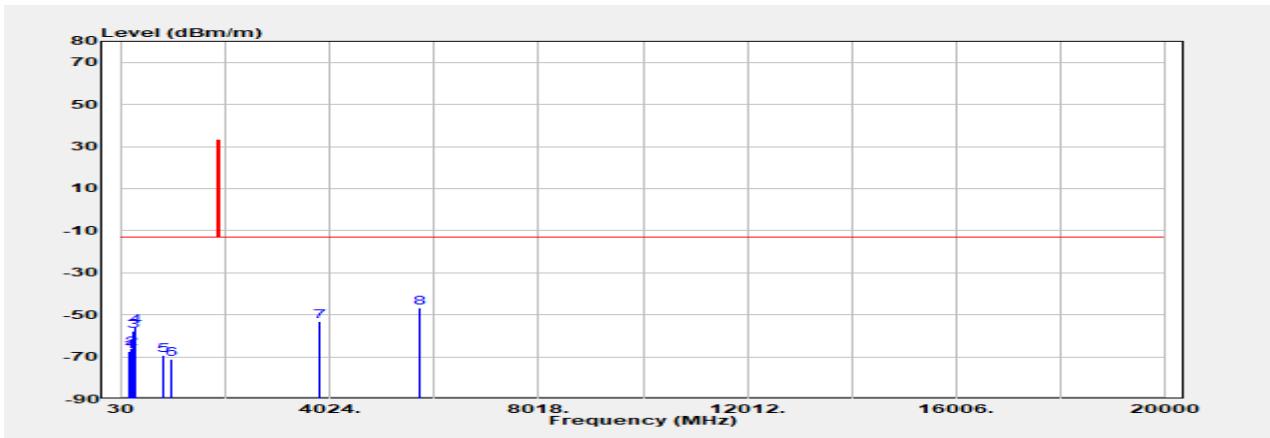
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :GPRS1900 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1909.8 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
183.260	-67.62	-66.76	2.05	-2.91	-13.00	-54.62
202.660	-65.83	-67.26	4.40	-2.97	-13.00	-52.83
263.770	-57.53	-58.78	4.33	-3.08	-13.00	-44.53
298.690	-55.43	-56.41	4.16	-3.18	-13.00	-42.43
807.940	-69.42	-69.95	4.21	-3.68	-13.00	-56.42
980.600	-71.13	-70.41	3.80	-4.52	-13.00	-58.13
3819.600	-53.13	-55.64	12.10	-9.59	-13.00	-40.13
5729.400	-46.62	-48.23	13.34	-11.73	-13.00	-33.62

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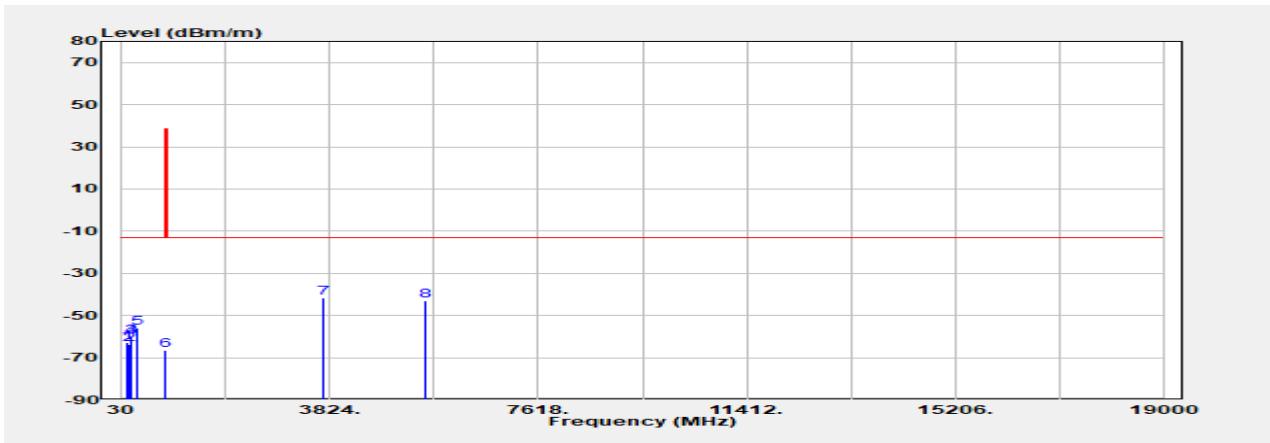
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B2 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Vertical  
Test Frequency :1852.4 MHz Engineer :Temo Chen



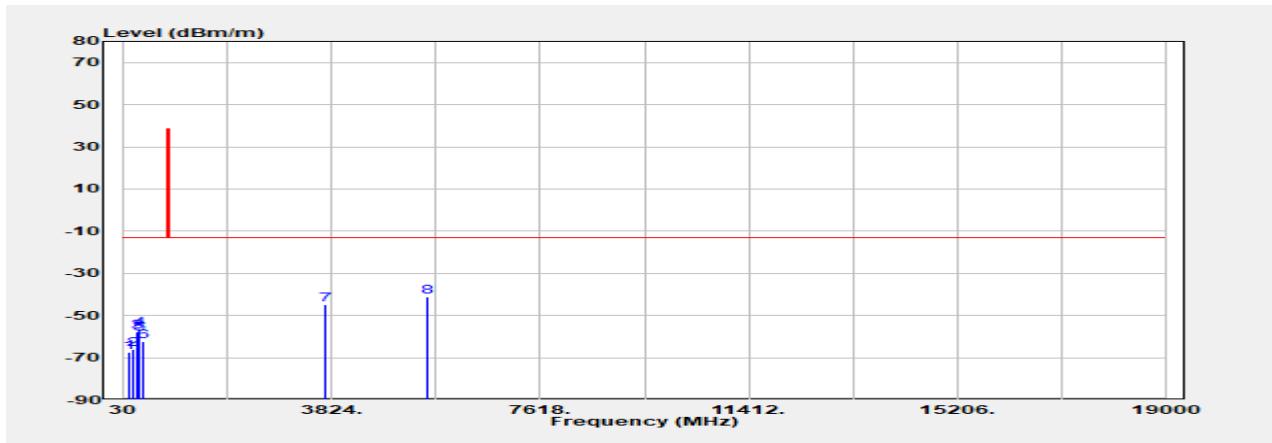
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-62.64	-58.14	-1.75	-2.75	-13.00	-49.64
152.220	-63.65	-59.26	-1.57	-2.82	-13.00	-50.65
182.290	-59.86	-58.85	1.90	-2.91	-13.00	-46.86
204.600	-60.17	-61.68	4.48	-2.97	-13.00	-47.17
298.690	-55.73	-56.71	4.16	-3.18	-13.00	-42.73
807.940	-66.40	-66.93	4.21	-3.68	-13.00	-53.40
3704.800	-41.84	-44.54	12.19	-9.49	-13.00	-28.84
5557.200	-42.86	-44.51	13.30	-11.65	-13.00	-29.86

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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B2 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1852.4 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-67.64	-63.14	-1.75	-2.75	-13.00	-54.64
202.660	-66.14	-67.57	4.40	-2.97	-13.00	-53.14
266.680	-57.64	-58.79	4.24	-3.09	-13.00	-44.64
298.690	-56.41	-57.39	4.16	-3.18	-13.00	-43.41
321.970	-58.80	-59.74	4.18	-3.24	-13.00	-45.80
384.050	-62.53	-64.08	4.37	-2.82	-13.00	-49.53
3704.800	-44.93	-47.63	12.19	-9.49	-13.00	-31.93
5557.200	-40.98	-42.63	13.30	-11.65	-13.00	-27.98

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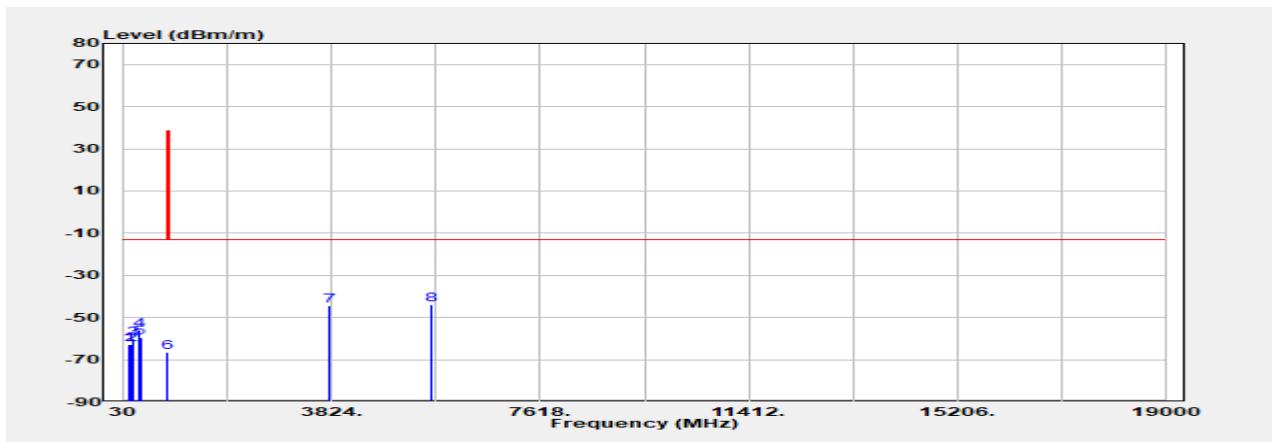
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B2 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Vertical  
Test Frequency :1880 MHz Engineer :Temo Chen



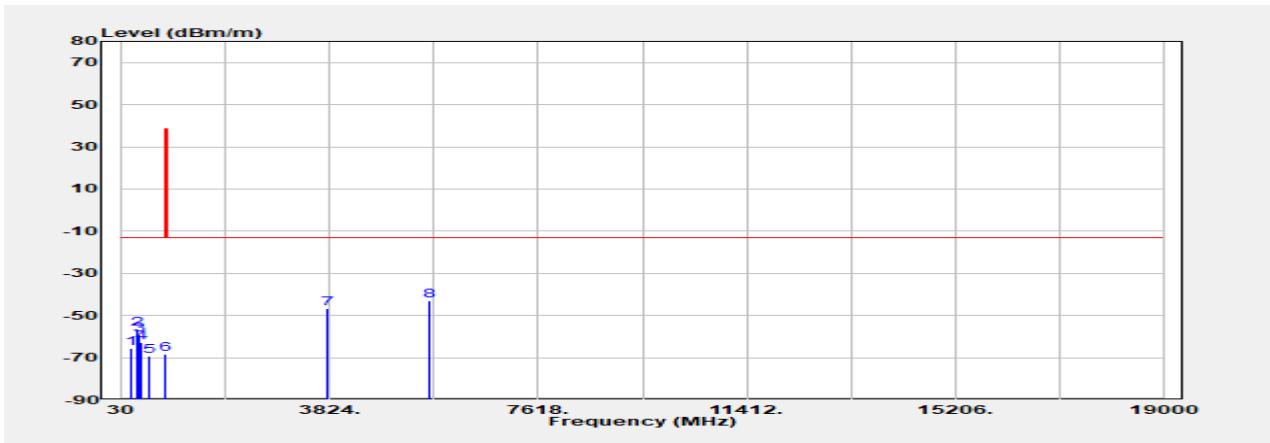
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-62.64	-58.20	-1.69	-2.75	-13.00	-49.64
151.250	-62.99	-58.59	-1.57	-2.83	-13.00	-49.99
204.600	-59.83	-61.34	4.48	-2.97	-13.00	-46.83
298.690	-56.04	-57.02	4.16	-3.18	-13.00	-43.04
325.850	-59.74	-60.70	4.21	-3.25	-13.00	-46.74
806.000	-66.32	-66.85	4.19	-3.66	-13.00	-53.32
3760.000	-44.52	-47.19	12.10	-9.43	-13.00	-31.52
5640.000	-43.80	-45.58	13.46	-11.68	-13.00	-30.80

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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B2 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1880 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
204.600	-65.36	-66.87	4.48	-2.97	-13.00	-52.36
298.690	-56.57	-57.55	4.16	-3.18	-13.00	-43.57
327.790	-59.14	-60.11	4.22	-3.25	-13.00	-46.14
381.140	-62.82	-64.36	4.36	-2.82	-13.00	-49.82
518.880	-69.45	-70.76	4.08	-2.77	-13.00	-56.45
807.940	-68.26	-68.79	4.21	-3.68	-13.00	-55.26
3760.000	-46.70	-49.37	12.10	-9.43	-13.00	-33.70
5640.000	-42.90	-44.68	13.46	-11.68	-13.00	-29.90

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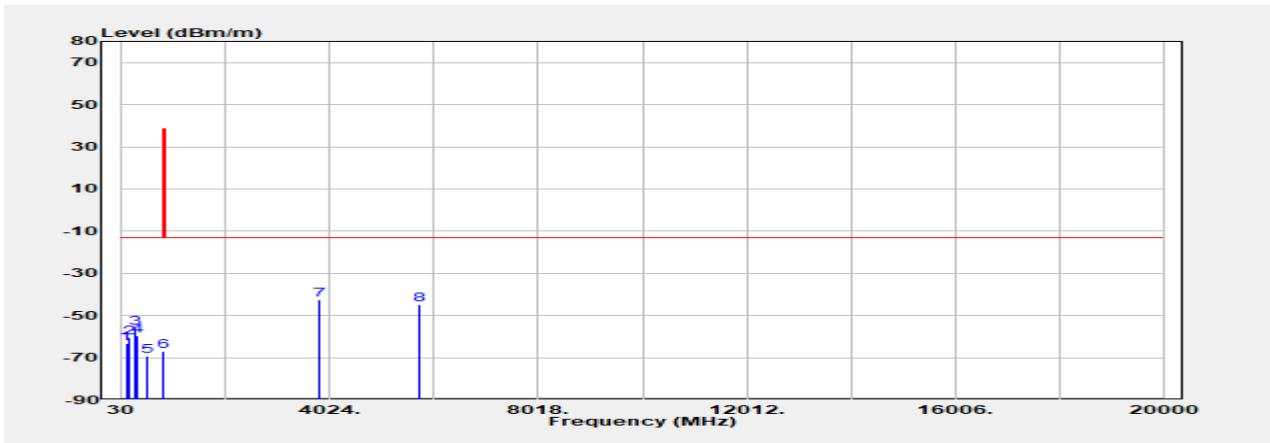
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Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:WCDMA B2	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:1907.6 MHz	Engineer	:Temo Chen



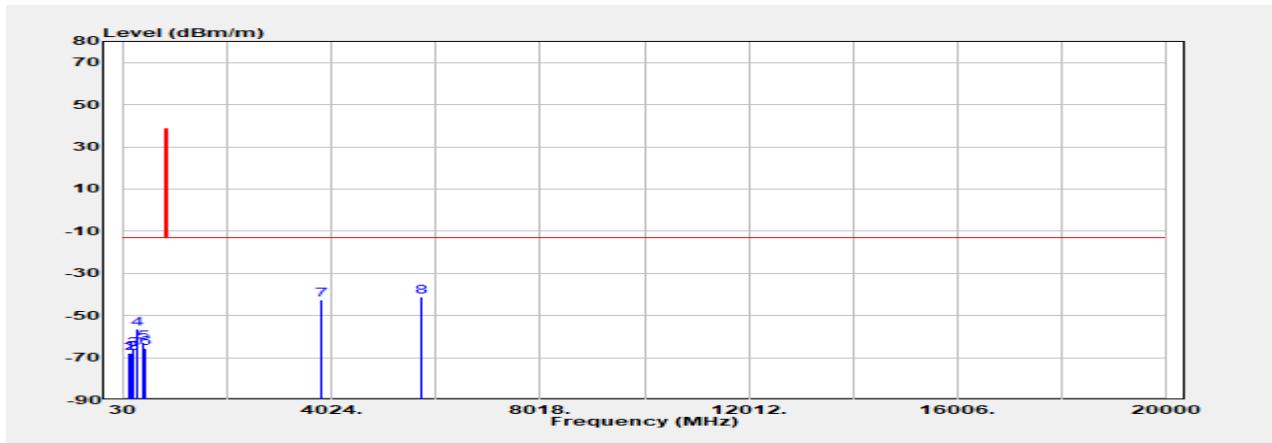
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.480	-63.31	-59.02	-1.54	-2.75	-13.00	-50.31
182.290	-60.53	-59.52	1.90	-2.91	-13.00	-47.53
300.630	-55.78	-56.80	4.21	-3.19	-13.00	-42.78
322.940	-59.38	-60.32	4.18	-3.24	-13.00	-46.38
523.730	-69.33	-70.75	4.14	-2.72	-13.00	-56.33
804.060	-66.78	-67.30	4.15	-3.63	-13.00	-53.78
3815.200	-42.52	-45.03	12.10	-9.59	-13.00	-29.52
5722.800	-44.78	-46.39	13.35	-11.74	-13.00	-31.78

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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :WCDMA B2 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Horizontal  
 Test Frequency :1907.6 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-68.09	-63.65	-1.69	-2.75	-13.00	-55.09
151.250	-67.84	-63.44	-1.57	-2.83	-13.00	-54.84
206.540	-66.16	-67.74	4.56	-2.98	-13.00	-53.16
297.720	-56.23	-57.20	4.14	-3.17	-13.00	-43.23
383.080	-62.99	-64.54	4.37	-2.82	-13.00	-49.99
450.980	-65.58	-67.07	4.12	-2.63	-13.00	-52.58
3815.200	-42.36	-44.87	12.10	-9.59	-13.00	-29.36
5722.800	-41.29	-42.90	13.35	-11.74	-13.00	-28.29

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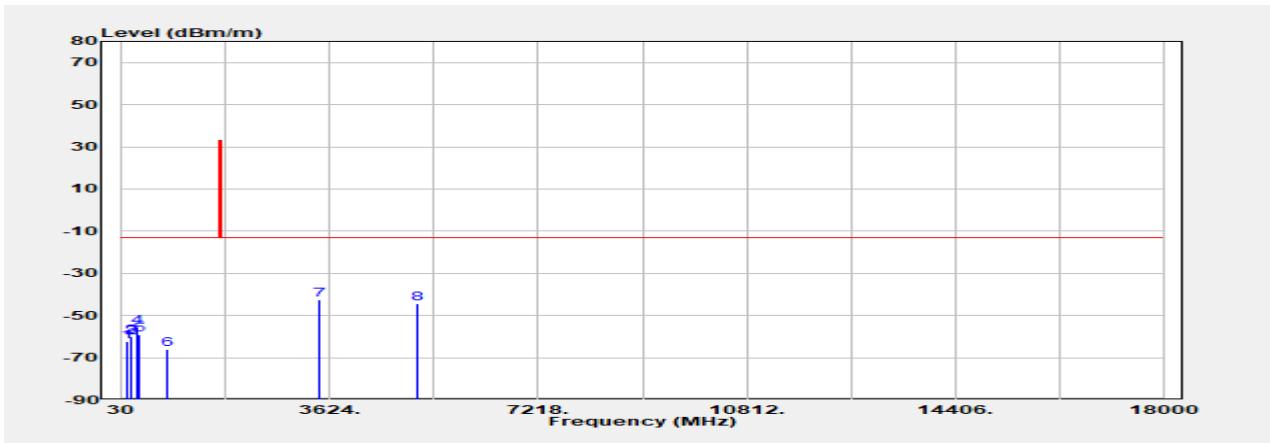
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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :WCDMA B4 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Vertical  
 Test Frequency :1712.4 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.450	-62.57	-58.15	-1.67	-2.75	-13.00	-49.57
182.290	-60.71	-59.70	1.90	-2.91	-13.00	-47.71
203.630	-59.97	-61.44	4.44	-2.97	-13.00	-46.97
298.690	-55.53	-56.51	4.16	-3.18	-13.00	-42.53
325.850	-59.31	-60.27	4.21	-3.25	-13.00	-46.31
804.060	-66.21	-66.73	4.15	-3.63	-13.00	-53.21
3424.800	-42.42	-45.78	12.45	-9.09	-13.00	-29.42
5137.200	-44.33	-45.68	12.45	-11.10	-13.00	-31.33

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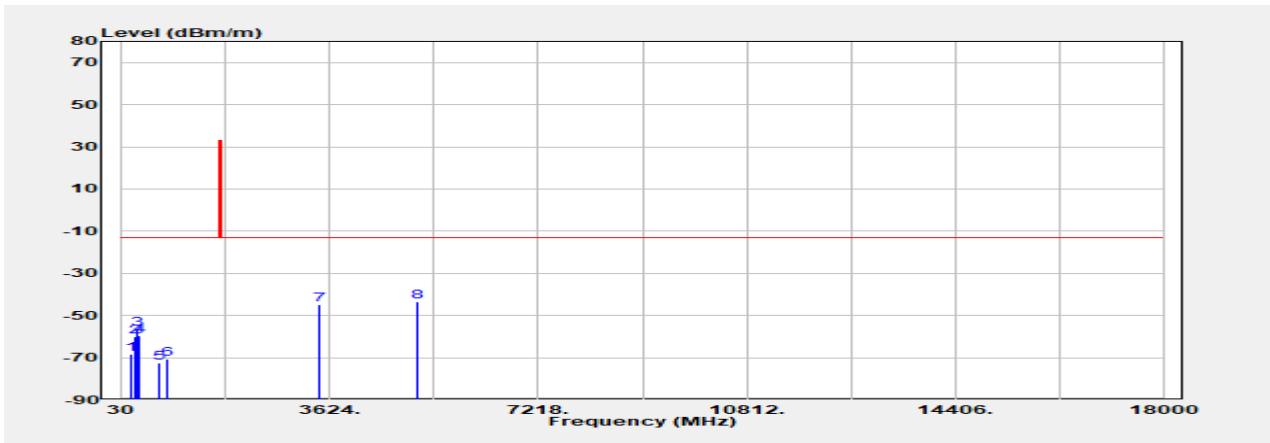
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B4 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1712.4 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
182.290	-68.25	-67.24	1.90	-2.91	-13.00	-55.25
245.340	-59.91	-61.18	4.34	-3.07	-13.00	-46.91
296.750	-56.37	-57.32	4.11	-3.16	-13.00	-43.37
326.820	-59.70	-60.66	4.21	-3.25	-13.00	-46.70
676.990	-72.43	-72.78	3.83	-3.48	-13.00	-59.43
807.940	-70.45	-70.98	4.21	-3.68	-13.00	-57.45
3424.800	-44.66	-48.02	12.45	-9.09	-13.00	-31.66
5137.200	-43.32	-44.67	12.45	-11.10	-13.00	-30.32

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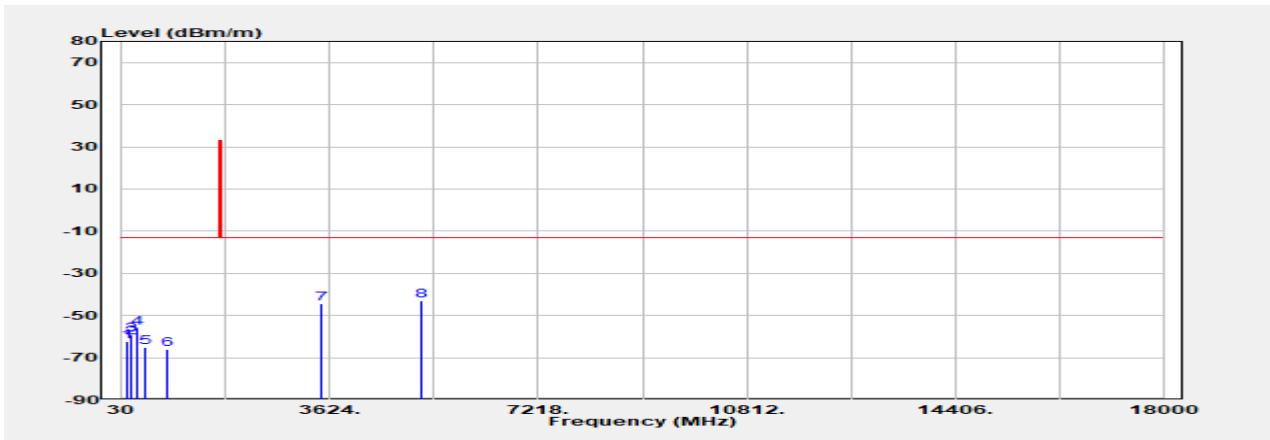
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B4 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Vertical  
Test Frequency :1732.4 MHz Engineer :Temo Chen



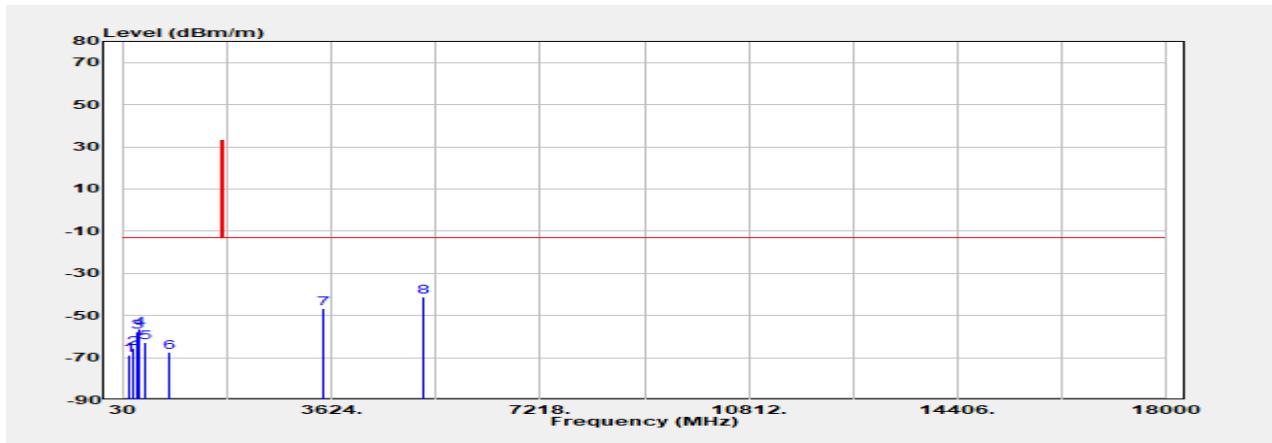
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.450	-62.41	-57.99	-1.67	-2.75	-13.00	-49.41
182.290	-60.67	-59.66	1.90	-2.91	-13.00	-47.67
205.570	-59.22	-60.76	4.52	-2.98	-13.00	-46.22
298.690	-55.70	-56.68	4.16	-3.18	-13.00	-42.70
440.310	-65.08	-66.37	4.04	-2.75	-13.00	-52.08
806.970	-66.16	-66.69	4.20	-3.67	-13.00	-53.16
3464.800	-44.61	-47.78	12.34	-9.17	-13.00	-31.61
5197.200	-42.81	-44.52	12.88	-11.17	-13.00	-29.81

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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B4 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1732.4 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-68.86	-64.36	-1.75	-2.75	-13.00	-55.86
205.570	-65.63	-67.17	4.52	-2.98	-13.00	-52.63
265.710	-57.72	-58.92	4.29	-3.09	-13.00	-44.72
298.690	-56.49	-57.47	4.16	-3.18	-13.00	-43.49
385.020	-62.75	-64.29	4.37	-2.83	-13.00	-49.75
807.940	-67.54	-68.07	4.21	-3.68	-13.00	-54.54
3464.800	-46.64	-49.81	12.34	-9.17	-13.00	-33.64
5197.200	-41.38	-43.09	12.88	-11.17	-13.00	-28.38

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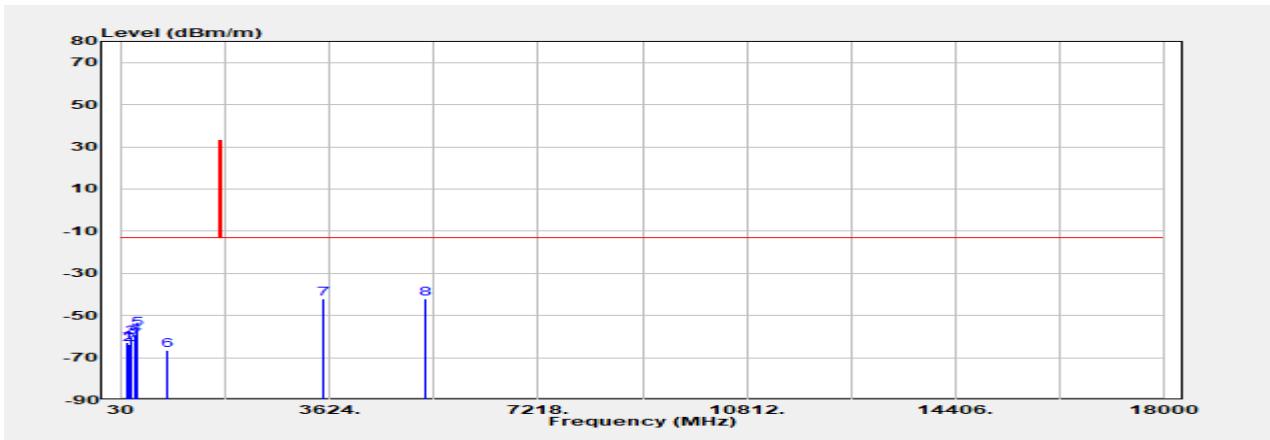
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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :WCDMA B4 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Vertical  
 Test Frequency :1752.6 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-62.71	-58.27	-1.69	-2.75	-13.00	-49.71
151.250	-63.68	-59.28	-1.57	-2.83	-13.00	-50.68
183.260	-60.30	-59.44	2.05	-2.91	-13.00	-47.30
246.310	-59.24	-60.49	4.33	-3.08	-13.00	-46.24
297.720	-56.19	-57.16	4.14	-3.17	-13.00	-43.19
807.940	-66.68	-67.21	4.21	-3.68	-13.00	-53.68
3505.200	-41.97	-45.05	12.18	-9.10	-13.00	-28.97
5257.800	-42.03	-44.11	13.30	-11.22	-13.00	-29.03

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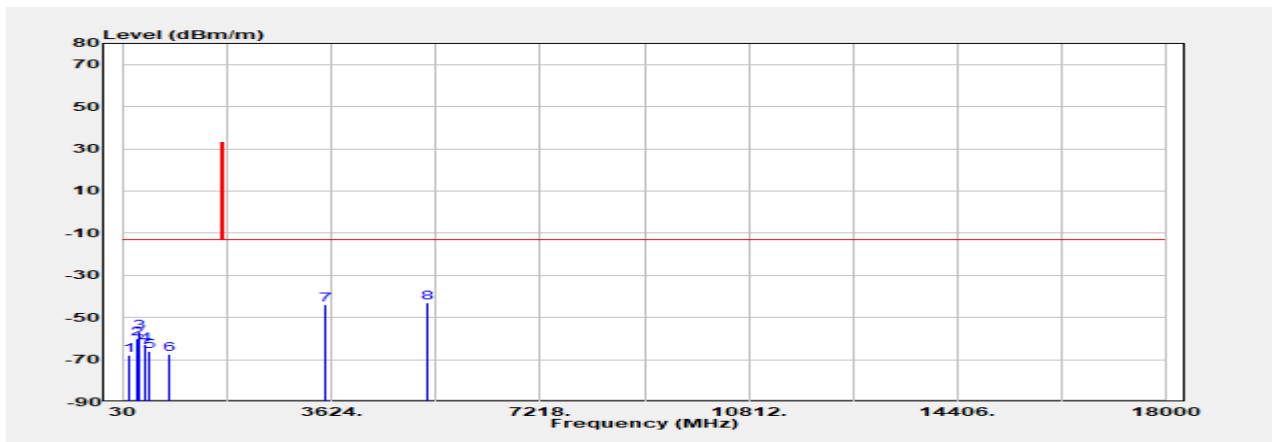
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B4 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :1752.6 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.480	-67.74	-63.45	-1.54	-2.75	-13.00	-54.74
246.310	-59.97	-61.22	4.33	-3.08	-13.00	-46.97
298.690	-56.98	-57.96	4.16	-3.18	-13.00	-43.98
381.140	-62.96	-64.50	4.36	-2.82	-13.00	-49.96
454.860	-66.16	-67.61	4.12	-2.67	-13.00	-53.16
806.000	-67.65	-68.18	4.19	-3.66	-13.00	-54.65
3505.200	-43.85	-46.93	12.18	-9.10	-13.00	-30.85
5257.800	-43.21	-45.29	13.30	-11.22	-13.00	-30.21

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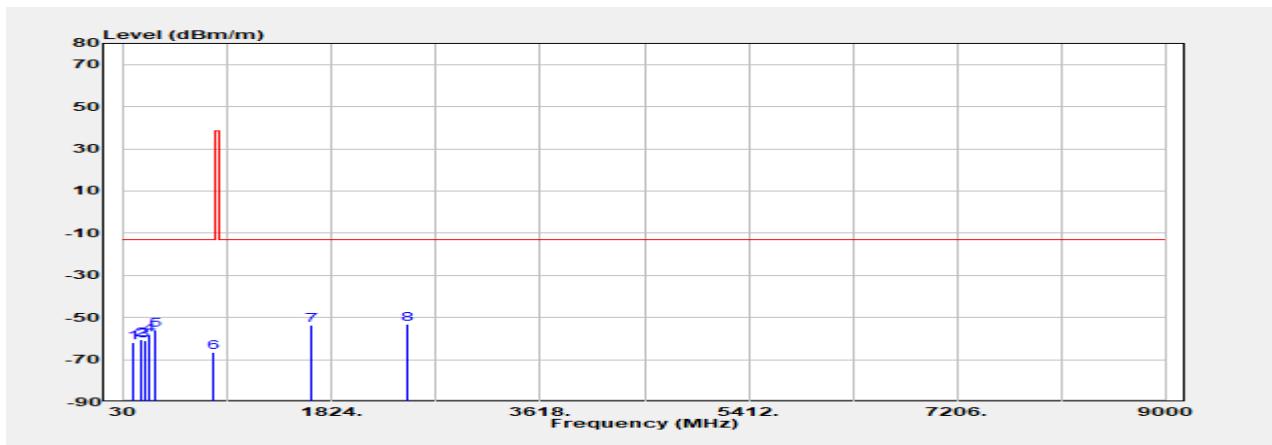
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Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:WCDMA B5	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:826.4 MHz	Engineer	:Temo Chen



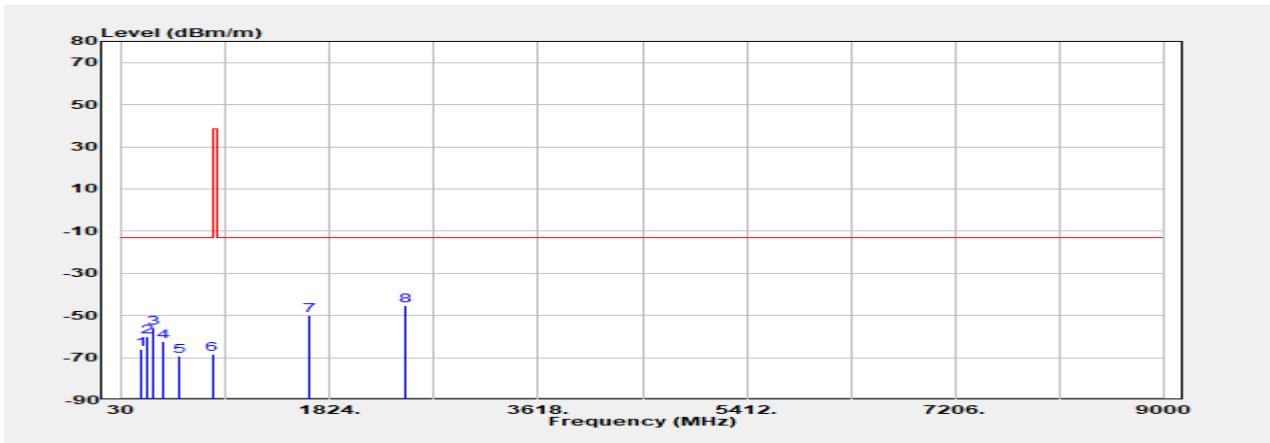
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
113.420	-61.91	-57.47	-1.69	-2.75	-13.00	-48.91
182.290	-60.35	-59.34	1.90	-2.91	-13.00	-47.35
204.600	-60.92	-62.43	4.48	-2.97	-13.00	-47.92
245.340	-58.24	-59.51	4.34	-3.07	-13.00	-45.24
298.690	-55.83	-56.81	4.16	-3.18	-13.00	-42.83
804.060	-66.51	-67.03	4.15	-3.63	-13.00	-53.51
1652.500	-53.44	-56.61	9.40	-6.23	-13.00	-40.44
2478.600	-53.23	-55.98	10.37	-7.62	-13.00	-40.23

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Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:WCDMA B5	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Horizontal
Test Frequency	:826.4 MHz	Engineer	:Temo Chen



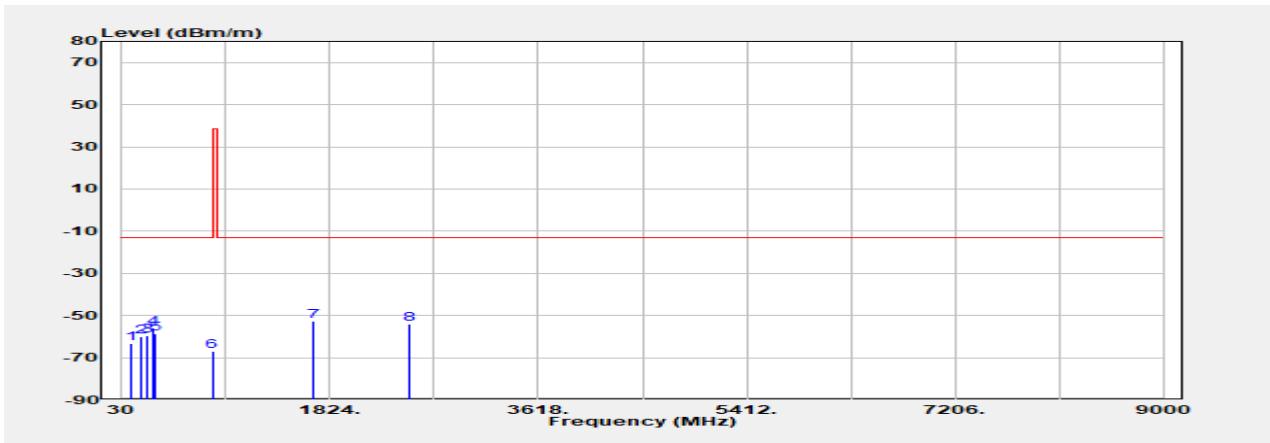
Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
203.630	-66.03	-67.50	4.44	-2.97	-13.00	-53.03
248.250	-59.87	-61.10	4.33	-3.10	-13.00	-46.87
297.720	-55.86	-56.83	4.14	-3.17	-13.00	-42.86
382.110	-62.57	-64.11	4.36	-2.82	-13.00	-49.57
519.850	-69.21	-70.53	4.08	-2.76	-13.00	-56.21
807.940	-68.36	-68.89	4.21	-3.68	-13.00	-55.36
1652.500	-49.71	-52.88	9.40	-6.23	-13.00	-36.71
2478.600	-45.33	-48.08	10.37	-7.62	-13.00	-32.33

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Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:WCDMA B5	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:836.6 MHz	Engineer	:Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.480	-63.09	-58.80	-1.54	-2.75	-13.00	-50.09
203.630	-59.99	-61.46	4.44	-2.97	-13.00	-46.99
247.280	-59.54	-60.78	4.33	-3.09	-13.00	-46.54
298.690	-55.83	-56.81	4.16	-3.18	-13.00	-42.83
320.030	-58.60	-59.53	4.16	-3.23	-13.00	-45.60
807.940	-66.80	-67.33	4.21	-3.68	-13.00	-53.80
1673.200	-52.91	-56.02	9.40	-6.29	-13.00	-39.91
2509.800	-54.25	-57.17	10.58	-7.66	-13.00	-41.25

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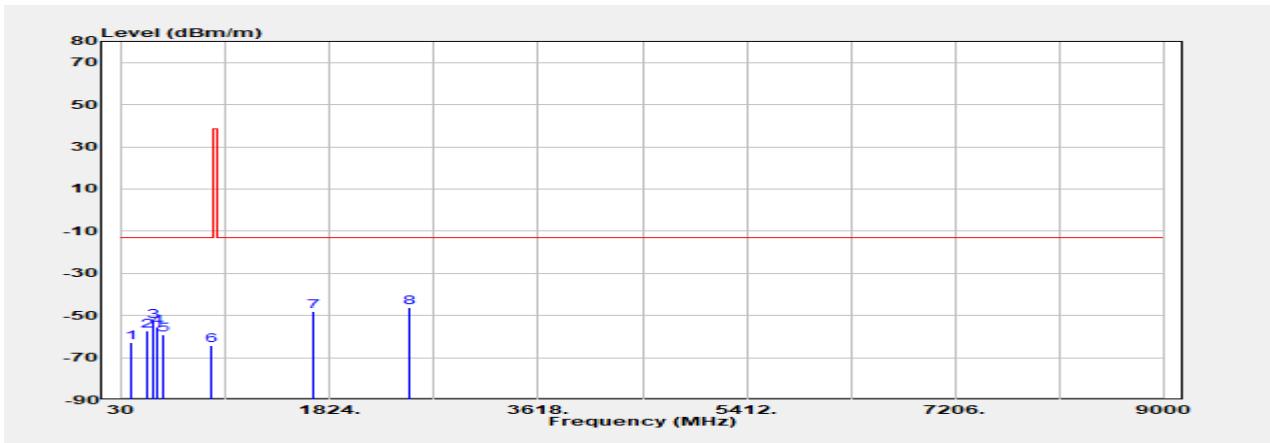
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Report Number :TERF2210002035E2 Test Site :SAC G  
Operation Mode :WCDMA B5 Test Date :2022-11-15  
Test Mode :Tx Temp./Humi. :21.1/62  
EUT Pol :H Plane Antenna Pol. :Horizontal  
Test Frequency :836.6 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-62.71	-60.96	-1.75	0.00	-13.00	-49.71
244.370	-57.09	-61.43	4.34	0.00	-13.00	-44.09
297.720	-52.67	-56.81	4.14	0.00	-13.00	-39.67
326.820	-55.38	-59.59	4.21	0.00	-13.00	-42.38
383.080	-59.07	-63.44	4.37	0.00	-13.00	-46.07
805.030	-64.20	-68.38	4.18	0.00	-13.00	-51.20
1673.200	-48.06	-51.17	9.40	-6.29	-13.00	-35.06
2509.800	-46.05	-48.97	10.58	-7.66	-13.00	-33.05

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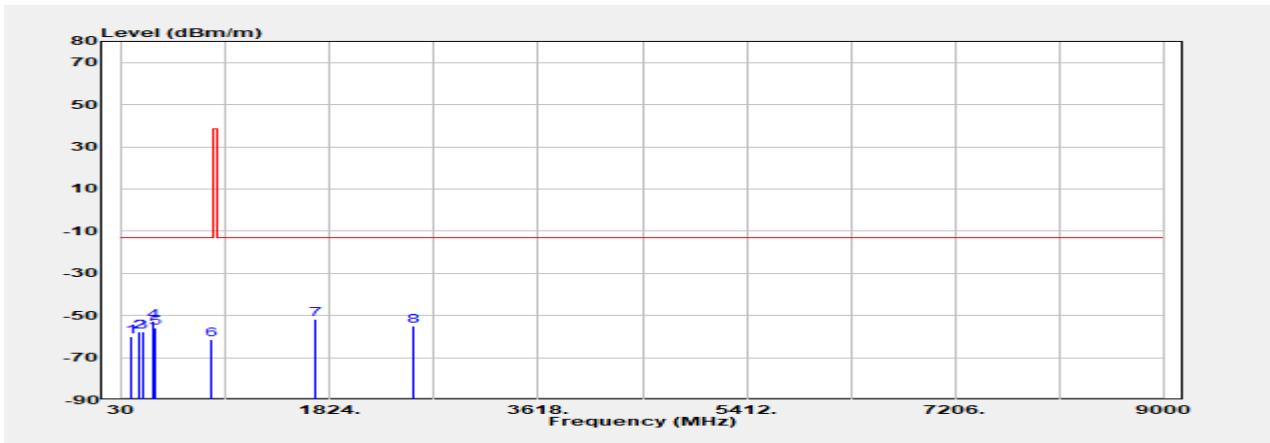
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Report Number	:TERF2210002035E2	Test Site	:SAC G
Operation Mode	:WCDMA B5	Test Date	:2022-11-15
Test Mode	:Tx	Temp./Humi.	:21.1/62
EUT Pol	:H Plane	Antenna Pol.	:Vertical
Test Frequency	:846.6 MHz	Engineer	:Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-60.04	-58.29	-1.75	0.00	-13.00	-47.04
182.290	-57.90	-59.80	1.90	0.00	-13.00	-44.90
204.600	-57.74	-62.22	4.48	0.00	-13.00	-44.74
298.690	-52.77	-56.93	4.16	0.00	-13.00	-39.77
323.910	-56.00	-60.19	4.19	0.00	-13.00	-43.00
804.060	-61.64	-65.79	4.15	0.00	-13.00	-48.64
1693.200	-51.82	-54.91	9.40	-6.31	-13.00	-38.82
2539.800	-55.05	-58.12	10.82	-7.75	-13.00	-42.05

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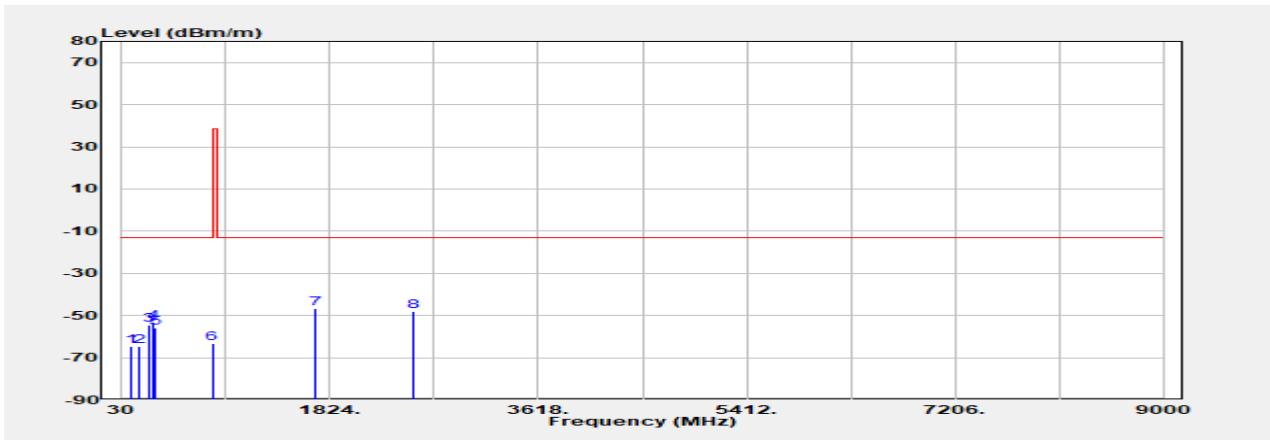
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Report Number :TERF2210002035E2 Test Site :SAC G  
 Operation Mode :WCDMA B5 Test Date :2022-11-15  
 Test Mode :Tx Temp./Humi. :21.1/62  
 EUT Pol :H Plane Antenna Pol. :Horizontal  
 Test Frequency :846.6 MHz Engineer :Temo Chen



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
114.390	-64.88	-63.13	-1.75	0.00	-13.00	-51.88
182.290	-64.71	-66.61	1.90	0.00	-13.00	-51.71
268.620	-54.45	-58.60	4.15	0.00	-13.00	-41.45
297.720	-53.00	-57.14	4.14	0.00	-13.00	-40.00
321.970	-56.01	-60.19	4.18	0.00	-13.00	-43.01
807.940	-63.51	-67.72	4.21	0.00	-13.00	-50.51
1693.200	-46.73	-49.82	9.40	-6.31	-13.00	-33.73
2539.800	-48.26	-51.33	10.82	-7.75	-13.00	-35.26

~ End of Report ~

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