

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT****CLASS II & IV PC REPORT**

Applicant: HP INC.
1501 PAGE MILL ROAD PALO ALTO, CA 94304, USA
Product Name: 7c Modular Platform
Brand Name: HP
Model No.: QSIP7180
Model Difference: N/A
Report Number: E2/2021/10114
FCC ID B94-TNH101QS
IC: 466X-TNG101QS
Issue Date: April 26, 2021
Date of Test: February 5, 2021 – April 19, 2021
Date of EUT Received: February 5, 2021

Approved By


Jay Lin / Asst. Supervisor**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 & 90S and ISSED RSS-Gen, 130, 132, 133, 139, 140, 199.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/10114	Rev.00	Original.	April 26, 2021	Elle Chang

Note:

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL PRODUCT INFORMATION

1.1 Product Description

Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	TPN-H101
Model Difference:	N/A
Hardware Version:	N/A
Software Version:	N/A
Model No. of WWAN/BT/WLAN Module:	QSIP7180
Class II & Class IV Permissive change:	7c Modular Platform INSTALLED IN Notebook Computer
Power Supply:	7.7Vdc from Rechargeable Li-ion Battery or 5 / 9 / 12 / 15 Vdc from AC/DC Adapter

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1.2 Operation Frequency Range

LTE Band 7		LTE Band 38		LTE Band 41	
BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)	BW (MHz)	Operation Frequency (MHz)
5	2502.5 - 2567.5	5	2572.5 - 2617.5	5	2498.5 - 2687.5
10	2505.0 - 2565.0	10	2575.0 - 2615.0	10	2501.0 - 2685.0
15	2507.5 - 2562.5	15	2577.5 - 2612.5	15	2503.5 - 2682.5
20	2510.0 - 2560.0	20	2580.0 - 2610.0	20	2506.0 - 2680.0

1.3 Antenna Designation

Operating Frequency (MHz)		Antenna Type	TX1/Main Peak Gain (dBi)	Aux/Rx2 Peak Gain (dBi)
LTE-Band 7	2502.5 ~ 2567.5	PIFA	-1.28	N/A
LTE-Band 38	2572.5 ~ 2617.5		-3.60	-4.77
LTE-Band 41	2498.5 ~ 2687.5		-1.28	-5.74

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1.4 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 27C

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		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.				

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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*9m*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 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.

2.3.2 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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2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

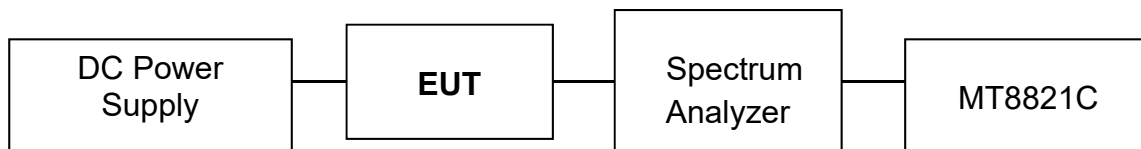


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

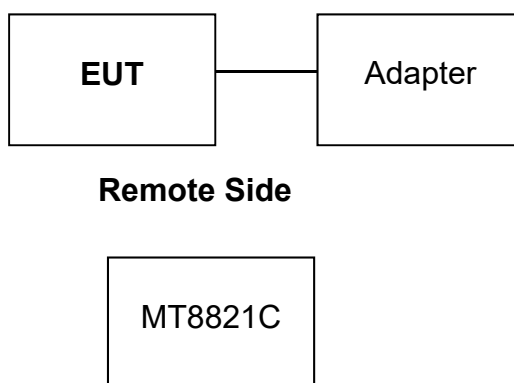


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8821C	6261786084	shielded	Un-shielded

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3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§27.50(h)(2)	RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1053 §27.53(m)(4)	RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 The Test Channel Details

This device is Notebook Computer that supports with carrier aggregation (two carrier) up-link, Intra-Band contiguous specification as below:

E-UTRA Intra-Band CA configuration / Bandwidth combination set				
E-UTRA CA configuration	Component carriers in order of increasing carrier frequency		Maximum aggregated bandwidth [MHz]	Bandwidth combination set
	Channel bandwidth for carrier [MHz]	Channel bandwidth for carrier [MHz]		
CA_7C	15	15	40	0
	20	20		
	10	20		
	15	15,20	40	1
	20	10,15,20		
	15	10,15		
CA_38C	20	15,20	40	2
	5,10,15,20	20		
	20	5,10,15		
CA_41C	10	20	40	0
	15	15,20		
	20	10,15,20		
	5,10	20	40	1
	15	15,20		
	20	5,10,15,20		
	10	15,20	40	2
	15	10,15,20		
	20	10,15,20		
	10	20	40	3
	20	20		

4.2 The Worst-Case Test Modes and Details

1. Pre-Scan has been conducted to determine the worst-case mode from all possible positions of X(E1)Y(E2)Z(H) and NB axis for radiated emission. The worst case was found as NB plane.

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4.2.1 Intra-Band

For uplink Intra-Band CA, evaluation has been done for contiguous and non-contiguous channel and bandwidth, configurations that generates highest output power in standalone transmission have been selected for the final test.

CA_7C

Parameter	Test Condition	Test Condition
Test Channel	Low ; Mid ;High	Low ; Mid ;High
Channel Bandwidth	20 MHz	20 MHz
Modulation	QPSK	QPSK
RB	UL: 1 RBs allocated, RB start = 99	UL: 1 RBs allocated, RB start = 0

CA_38C

Parameter	Test Condition	Test Condition
Test Channel	Low ; Mid ;High	Low ; Mid ;High
Channel Bandwidth	20 MHz	20 MHz
Modulation	QPSK	QPSK
RB	UL: 1 RBs allocated, RB start = 99	UL: 1 RBs allocated, RB start = 0

CA_41C

Parameter	Test Condition	Test Condition
Test Channel	Low ; Mid ;High	Low ; Mid ;High
Channel Bandwidth	20 MHz	20 MHz
Modulation	QPSK	QPSK
RB	UL: 1 RBs allocated, RB start = 99	UL: 1 RBs allocated, RB start = 0

CA_41C_HPUE

Parameter	Test Condition	Test Condition
Test Channel	Low ; Mid ;High	Low ; Mid ;High
Channel Bandwidth	20 MHz	20 MHz
Modulation	QPSK	QPSK
RB	UL: 1 RBs allocated, RB start = 99	UL: 1 RBs allocated, RB start = 0

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5 MEASUREMENT UNCERTAINTY

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

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	2.64 dB	9kHz~30MHz: +/- 2.3dB
	+/-	4.93 dB	30MHz - 1000MHz: +/- 3.37dB
	+/-	4.81 dB	1GHz - 18GHz: +/- 4.04dB
	+/-	4.52 dB	18GHz - 40GHz: +/- 4.04dB
Polarization: Horizontal	+/-	2.64 dB	9kHz~30MHz: +/- 2.3dB
	+/-	4.45 dB	30MHz - 1000MHz: +/- 4.22dB
	+/-	4.81 dB	1GHz - 18GHz: +/- 4.08dB
	+/-	4.52 dB	18GHz - 40GHz: +/- 4.08dB

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

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6 MAXIMUM OUTPUT POWER

6.1 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.

6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

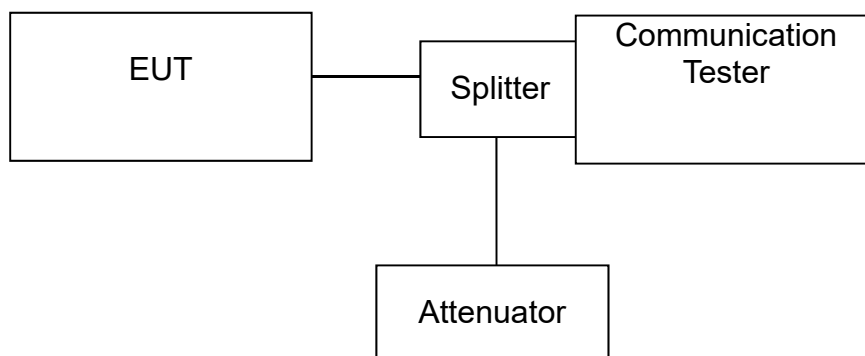
FCC 27, 50(h) LTE 7 / 38 / 41

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

RSS-199 §4.4 LTE 7 / 38 / 41

For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

6.2 Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3 Output Power Measurement Applicable Guidance

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results.

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

6.4 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 (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)², relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);

P_T = transmitter output power, expressed in dBW, dBm, or PSD;

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

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

6.5 Measurement Equipment Used

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8821C	6261786084	12/22/2020	12/21/2021
Coaxial Cables	Woken	00100A1F1A185C	RF55	11/19/2020	11/18/2021

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6.6 LTE Measurement Results:

6.6.1 Intra-Band

Part 27 / RSS 199_ EIRP Limit (W)			2		<u>OUTPUT POWER FOR LTE BAND 7 (15MHz + 10MHz)</u>							
Antenna Gain			-1.28									
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average	
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)	
15MHz+ 10MHz	20825	2507.5	20945	2519.5	QPSK	1	74	1	0	21.86	0.153	

Part 27 / RSS 199_ EIRP Limit (W)			2	<u>OUTPUT POWER FOR LTE BAND 7 (20MHz + 10MHz)</u>							
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
20MHz+ 10MHz	20850	2510.0	20994	2524.4	QPSK	1	99	1	0	21.82	0.152

Part 27 / RSS 199_ EIRP Limit (W)			2	<u>OUTPUT POWER FOR LTE BAND 7 (15MHz + 15MHz)</u>								
Antenna Gain			-1.28									
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average	
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)	
	15MHz+ 15MHz	20825	2507.5	20975		2522.5	QPSK	1	74	1	0	21.82
		21375	2562.5	21225	2547.5	QPSK	1	74	1	0	21.62	0.145

Part 27 / RSS 199_ EIRP Limit (W)			2	OUTPUT POWER FOR LTE BAND 7 (20MHz + 15MHz)							
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
	20MHz+ 15MHz	20850	2510.0	21021	2527.1	QPSK	1	99	1	0	21.80
	21350	2560.0	21179	2542.9	QPSK	1	99	1	0	21.56	0.143

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Part 27 / RSS 199_ EIRP Limit (W)			2	<u>OUTPUT POWER FOR LTE BAND 7 (20MHz + 20MHz)</u>								
Antenna Gain			-1.28									
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average	
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)	
	20MHz+ 20MHz	20850	2510.0	21048		2529.8	QPSK	1	99	1	0	21.88
		21152	2540.2	21350	2560.0	QPSK	1	99	1	0	21.64	0.146

Part 27 / RSS 199_ EIRP Limit (W)			2	<u>OUTPUT POWER FOR LTE BAND 38 (15MHz + 15MHz)</u>							
Antenna Gain			-3.6								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
	15MHz+ 15MHz	37825	2577.5	37975	2592.5	QPSK	1	74	1	0	19.59
	38175	2612.5	38025	2597.5	QPSK	1	74	1	0	19.49	0.089

Part 27 / RSS 199_ EIRP Limit (W)			2		<u>OUTPUT POWER FOR LTE BAND 38 (20MHz + 20MHz)</u>						
Antenna Gain			-3.6								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
20MHz+ 20MHz	37850	2580.0	38048	2599.8	QPSK	1	99	1	0	19.50	0.089
	38150	2610.0	37952	2590.2	QPSK	1	99	1	0	19.49	0.089

Part 27 / RSS 199_ EIRP Limit (W)			2		OUTPUT POWER FOR LTE BAND 41 (5MHz + 20MHz)						
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
	5MHz+ 20MHz	39750	2506.0	39867		2517.7	QPSK	1	99	1	0
41490		2680.0	41373	2668.3	QPSK	1	99	1	0	23.22	0.210

Part 27 / RSS 199_ EIRP Limit (W)			2	<u>OUTPUT POWER FOR LTE BAND 41 (15MHz + 10MHz)</u>							
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
	15MHz+ 10MHz	39725	2503.5	39845	2515.5	QPSK	1	74	1	0	23.34
	41515	2682.5	41395	2670.5	QPSK	1	74	1	0	23.25	0.211

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Part 27 / RSS 199_ EIRP Limit (W)			2	<u>OUTPUT POWER FOR LTE BAND 41 (20MHz + 10MHz)</u>							
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
	20MHz+ 10MHz	39750	2506.0	39894	2520.4	QPSK	1	99	1	0	23.33
	41490	2680.0	41346	2665.6	QPSK	1	99	1	0	23.21	0.209

Part 27 / RSS 199_ EIRP Limit (W)			2		<u>OUTPUT POWER FOR LTE BAND 41 (15MHz + 15MHz)</u>						
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
15MHz+ 15MHz	39725	2503.5	39875	2518.5	QPSK	1	74	1	0	23.28	0.213
	41515	2682.5	41365	2667.5	QPSK	1	74	1	0	23.14	0.206

Part 27 / RSS 199_ EIRP Limit (W)			2		<u>OUTPUT POWER FOR LTE BAND 41 (20MHz + 15MHz)</u>						
Antenna Gain			-1.28								
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
20MHz+ 15MHz	39750	2506.0	39921	2523.1	QPSK	1	99	1	0	23.25	0.211
	41490	2680.0	41319	2662.9	QPSK	1	99	1	0	23.16	0.207

Part 27 / RSS 199_ EIRP Limit (W)				2		<u>OUTPUT POWER FOR LTE BAND 41 (20MHz + 20MHz)</u>					
Antenna Gain				-1.28							
Bandwidth	PCC		SCC1		Modulation	PCC RB		SCC1 RB		EIRP Average	EIRP Average
	Earfcn	MHz	Earfcn	MHz		Size	Offset	Size	Offset	(dBm)	(W)
	20MHz+ 20MHz	39750	2506.0	39948		2525.8	QPSK	1	99	1	0
	41490	2680.0	41292	2660.2	QPSK	1	99	1	0	23.22	0.210

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7 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

7.1 Standard Applicable

According to FCC §2.1053,

FCC§27.53(h)

RSS-199 §4.5

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.

FCC §27.53(m) (4) (6) for LTE B7, 38, 41

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

RSS-199 §4.5 for LTE B7, 38, 41

In the 1 MHz band immediately outside and adjacent to the channel edge, the unwanted emission power shall be measured with a resolution bandwidth of at least 1% of the occupied bandwidth for base station and fixed subscriber equipment, and 2% for mobile subscriber equipment. Beyond the 1 MHz band, a resolution bandwidth of 1 MHz shall be used. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full required measurement bandwidth of 1 MHz, or 1% or 2% of the occupied bandwidth, as applicable.

Equipment shall comply with the following unwanted emission limits:

for base station and fixed subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least $43 + 10 \log_{10} P$ for mobile subscriber equipment, the power of any unwanted emissions measured as above shall be attenuated (in dB) below the transmitter power, P (dBW), by at least:

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$40 + 10 \log_{10} p$ from the channel edges to 5 MHz away

$43 + 10 \log_{10} p$ between 5 MHz and X MHz from the channel edges, and

$55 + 10 \log_{10} p$ at X MHz and beyond from the channel edges

In addition, the attenuation shall not be less than $43 + 10 \log_{10} p$ on all frequencies between 2490.5 MHz and 2496 MHz, and $55 + 10 \log_{10} p$ at or below 2490.5 MHz.

In (a) and (b), p is the transmitter power measured in watts and X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

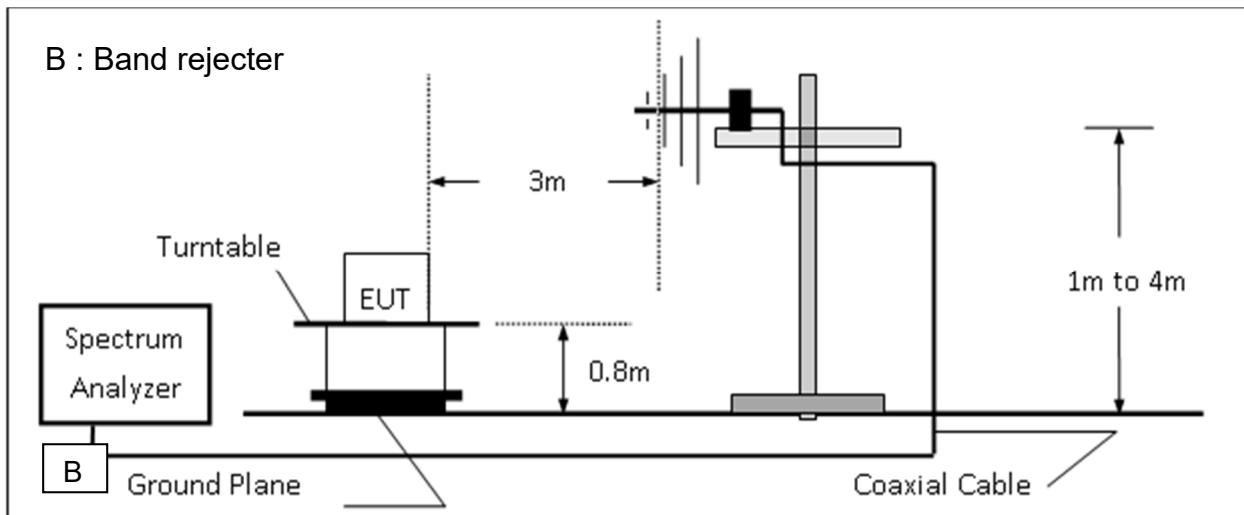
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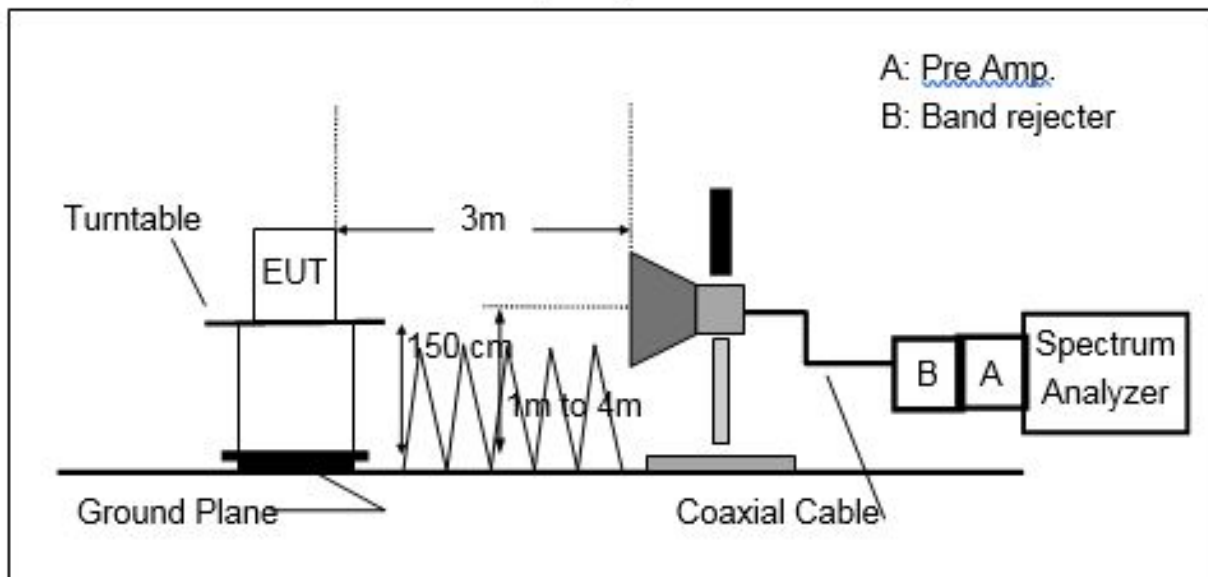
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7.2 EUT Setup

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.3 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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7.4 Measurement Equipment Used:

Radiated Emission Test Site: SAC D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWAZBECK	VULB 9168	9168-617	11/11/2020	11/10/2021
Horn Antenna	Schwarzbeck	BBHA9170	185	07/30/2020	07/29/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/22/2020	06/21/2021
Loop Antenna	ETS.LIND-GREN	6502	143303	04/28/2020	04/27/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
Radio Communication Analyser	Anritsu	MT8820C	6201107337	07/23/2020	07/22/2021
Radio Communication Analyser	Anritsu	MT8821C	6261786084	12/22/2020	12/21/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Pre-Amplifier	EMC Instruments	EMC9135	980234	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC12630SE	980271	11/19/2020	11/18/2021
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021
Band Rejection Filter	K&L	3TNF-800/1000-0.2-N/N	RF184	11/19/2020	11/18/2021
Notch Filter	EWT	EWT-54-0038	RF185	11/19/2020	11/18/2021
Band Rejection Filter	WI	WRC GV695-920	RF194	11/19/2020	11/18/2021
Coaxial Cable	Huber+Suhner	RG 214/U	W21.01	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	EMC106-SM-SM-7200	150703	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17413/4	11/19/2020	11/18/2021

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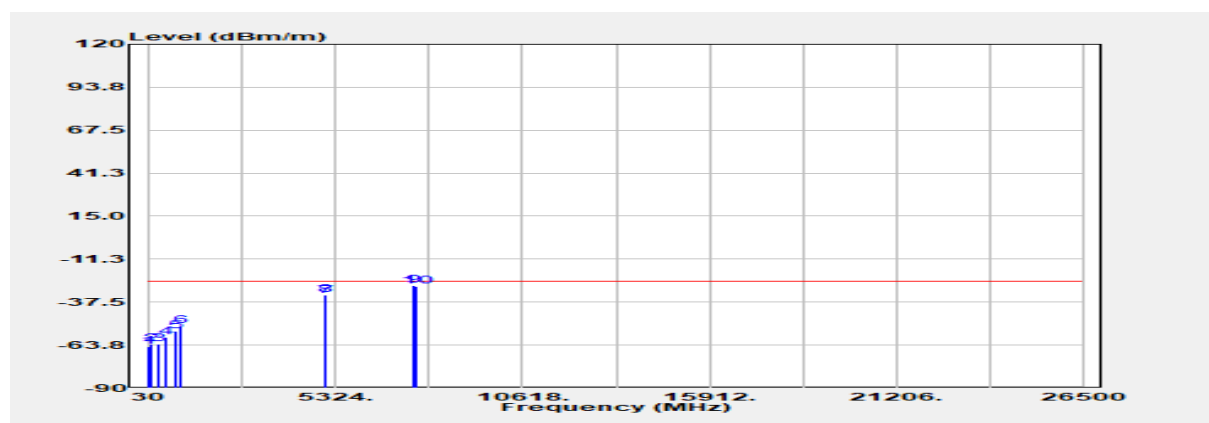
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7.5 Measurement Result:

Radiated Spurious Emission Measurement Result: LTE Band 7C Mode

Report Number	:E2/2021/10106	Test Site	:966 Chamber D
Operation Mode	:LTE B7C	Test Date	:2021-04-20
Test Mode	:TX CH LOW	Temp./Humi.	:22.1/70
EUT Pol	:NB Plane	Antenna Pol.	:Vertical
Test Frequency	:2510+2529.8MHz	Engineer	:Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
44.550	-64.61	-46.25	-17.98	-0.38	-25.00	-39.61
131.850	-62.91	-55.16	-7.11	-0.64	-25.00	-37.91
324.880	-63.17	-61.08	-0.90	-1.19	-25.00	-38.17
558.650	-58.71	-56.37	-0.70	-1.64	-25.00	-33.71
796.300	-55.43	-52.30	-1.46	-1.67	-25.00	-30.43
935.980	-52.33	-49.14	-1.43	-1.76	-25.00	-27.33
5020.000	-33.55	-41.48	12.34	-4.41	-25.00	-8.55
5059.600	-32.93	-40.60	12.10	-4.43	-25.00	-7.93
7530.000	-27.58	-33.10	11.06	-5.54	-25.00	-2.58
7589.400	-27.91	-33.45	11.18	-5.64	-25.00	-2.91

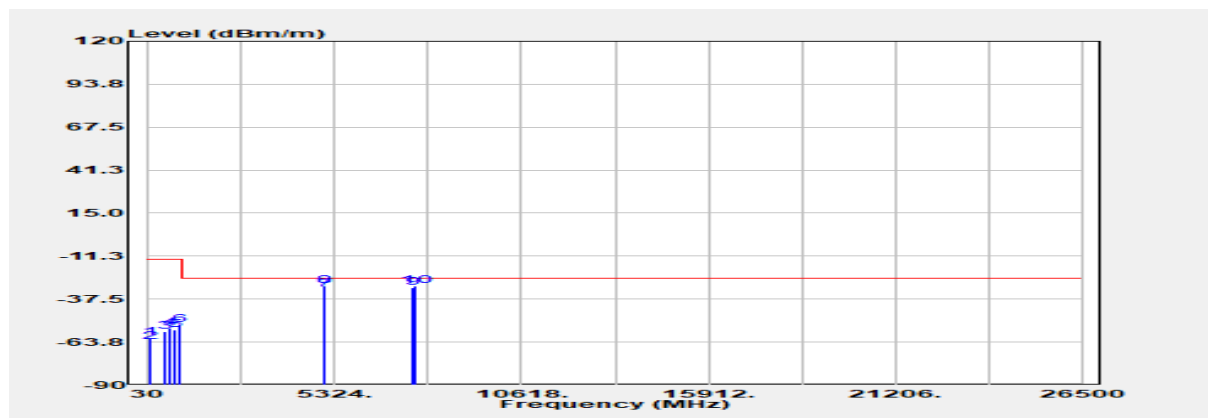
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Report Number :E2/2021/10106
Operation Mode :LTE B7C
Test Mode :TX CH LOW
EUT Pol :NB Plane
Test Frequency :2510+2529.8MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.1/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
106.630	-61.07	-54.16	-6.31	-0.60	-13.00	-48.07
155.130	-63.59	-56.17	-6.71	-0.71	-13.00	-50.59
528.580	-57.44	-55.55	-0.85	-1.04	-13.00	-44.44
709.000	-55.46	-52.82	-1.10	-1.54	-13.00	-42.46
799.210	-56.10	-53.06	-1.32	-1.72	-13.00	-43.10
948.590	-53.01	-49.82	-1.40	-1.79	-13.00	-40.01
5020.000	-31.60	-39.53	12.34	-4.41	-25.00	-6.60
5059.600	-29.71	-37.38	12.10	-4.43	-25.00	-4.71
7530.000	-30.45	-35.97	11.06	-5.54	-25.00	-5.45
7589.400	-29.35	-34.89	11.18	-5.64	-25.00	-4.35

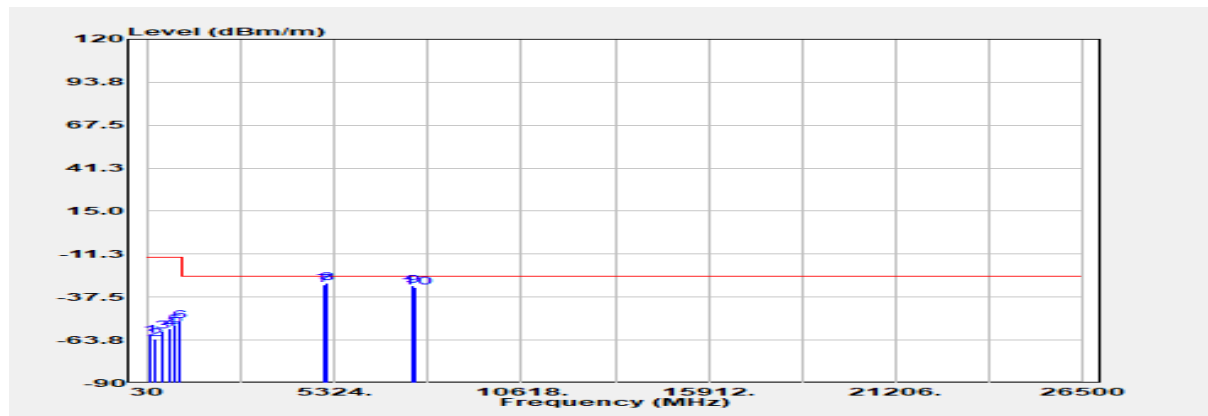
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Report Number :E2/2021/10106
Operation Mode :LTE B7C
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2525.1+2544.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.1/70
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
98.870	-60.93	-54.81	-5.54	-0.58	-13.00	-47.93
232.730	-63.17	-62.07	-0.19	-0.91	-13.00	-50.17
496.570	-58.53	-56.24	-0.72	-1.57	-13.00	-45.53
654.680	-56.65	-53.51	-1.22	-1.92	-13.00	-43.65
791.450	-54.67	-51.59	-1.50	-1.58	-13.00	-41.67
935.980	-52.25	-49.06	-1.43	-1.76	-13.00	-39.25
5050.200	-30.25	-37.93	12.10	-4.42	-25.00	-5.25
5089.800	-28.84	-36.50	12.10	-4.44	-25.00	-3.84
7575.300	-30.61	-36.14	11.15	-5.62	-25.00	-5.61
7634.700	-31.59	-37.16	11.27	-5.70	-25.00	-6.59

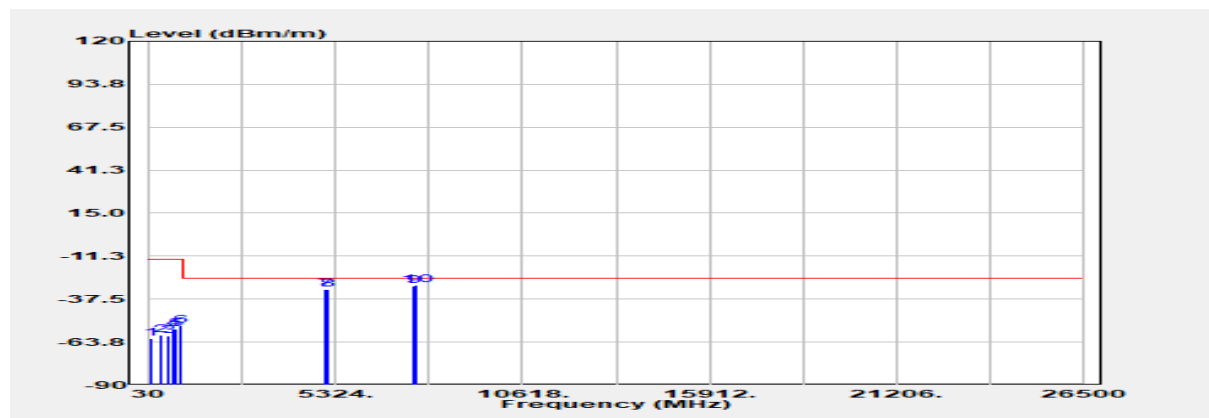
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Report Number :E2/2021/10106
Operation Mode :LTE B7C
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2525.1+2544.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.1/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.510	-61.76	-54.68	-6.47	-0.61	-13.00	-48.76
399.570	-59.72	-57.73	-0.60	-1.39	-13.00	-46.72
590.660	-60.15	-57.53	-1.12	-1.50	-13.00	-47.15
725.490	-55.81	-52.78	-1.13	-1.90	-13.00	-42.81
813.760	-55.62	-52.50	-1.23	-1.89	-13.00	-42.62
948.590	-53.93	-50.74	-1.40	-1.79	-13.00	-40.93
5050.200	-31.40	-39.08	12.10	-4.42	-25.00	-6.40
5089.800	-31.79	-39.45	12.10	-4.44	-25.00	-6.79
7575.300	-29.22	-34.75	11.15	-5.62	-25.00	-4.22
7634.700	-29.01	-34.58	11.27	-5.70	-25.00	-4.01

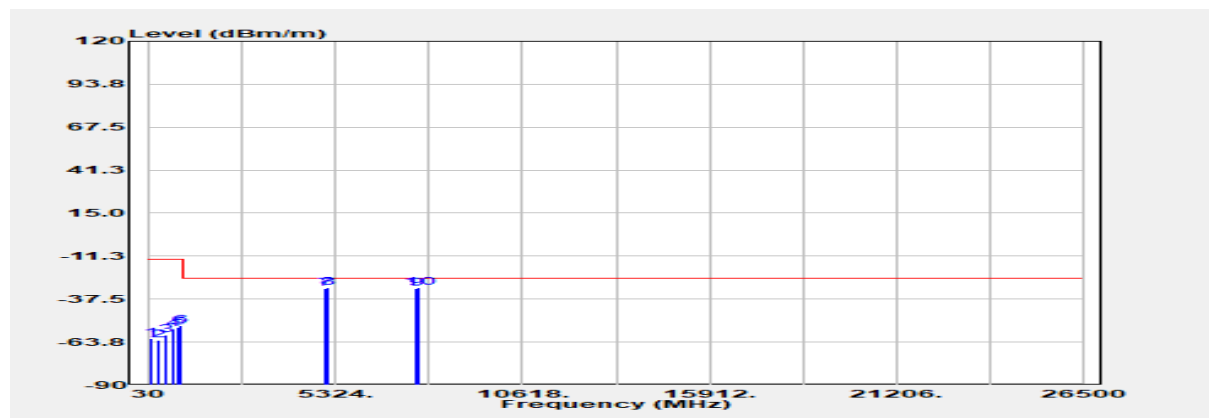
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Report Number :E2/2021/10106
Operation Mode :LTE B7C
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2540.2+2560 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.1/70
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
108.570	-61.48	-54.59	-6.28	-0.61	-13.00	-48.48
356.890	-62.38	-60.79	-0.47	-1.12	-13.00	-49.38
553.800	-59.42	-57.14	-0.75	-1.53	-13.00	-46.42
726.460	-55.81	-52.75	-1.14	-1.92	-13.00	-42.81
877.780	-54.62	-51.77	-1.12	-1.73	-13.00	-41.62
958.290	-53.52	-50.24	-1.44	-1.84	-13.00	-40.52
5080.400	-31.25	-38.91	12.10	-4.44	-25.00	-6.25
5120.000	-30.51	-38.14	12.10	-4.47	-25.00	-5.51
7620.600	-30.95	-36.51	11.24	-5.68	-25.00	-5.95
7680.000	-30.36	-35.98	11.42	-5.80	-25.00	-5.36

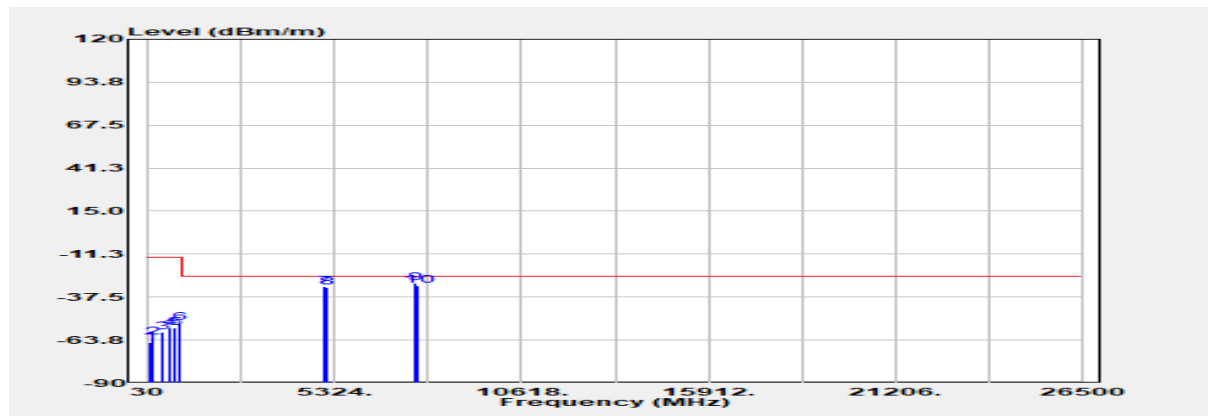
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Report Number :E2/2021/10106
Operation Mode :LTE B7C
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2540.2+2560 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.1/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
106.630	-65.39	-58.48	-6.31	-0.60	-13.00	-52.39
167.740	-61.86	-55.36	-5.75	-0.75	-13.00	-48.86
449.040	-59.09	-57.05	-0.98	-1.06	-13.00	-46.09
702.210	-56.06	-53.59	-1.06	-1.41	-13.00	-43.06
802.120	-56.17	-53.16	-1.25	-1.76	-13.00	-43.17
945.680	-53.40	-50.20	-1.42	-1.78	-13.00	-40.40
5080.400	-31.31	-38.97	12.10	-4.44	-25.00	-6.31
5120.000	-31.57	-39.20	12.10	-4.47	-25.00	-6.57
7620.600	-28.87	-34.43	11.24	-5.68	-25.00	-3.87
7680.000	-30.45	-36.07	11.42	-5.80	-25.00	-5.45

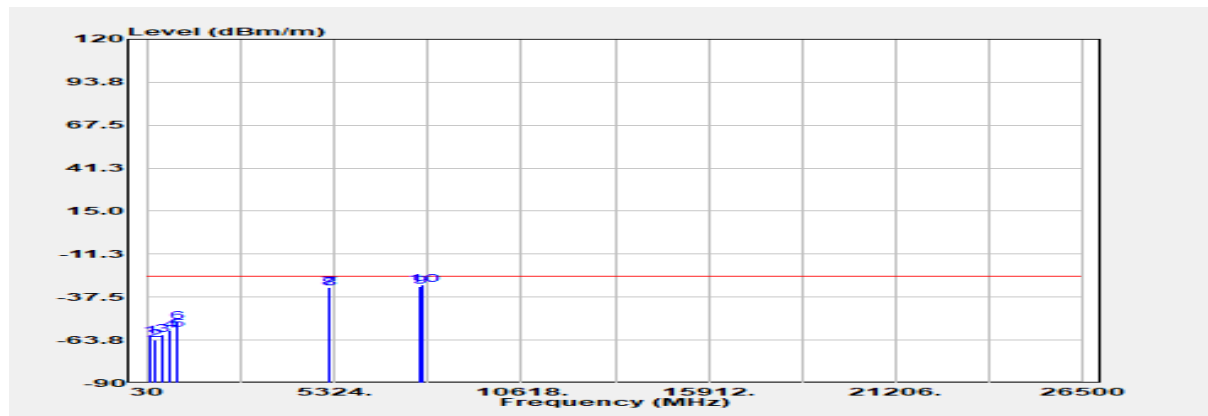
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Report Number :E2/2021/10106
Operation Mode :LTE B38C
Test Mode :TX CH LOW
EUT Pol :NB Plane
Test Frequency :2580+2599.8 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.8/68
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
100.810	-61.39	-55.06	-5.75	-0.58	-25.00	-36.39
267.650	-63.74	-61.95	-0.80	-0.99	-25.00	-38.74
486.870	-60.77	-58.45	-0.70	-1.62	-25.00	-35.77
684.750	-57.75	-55.45	-0.93	-1.37	-25.00	-32.75
856.440	-57.12	-54.37	-1.21	-1.54	-25.00	-32.12
919.490	-52.75	-49.55	-1.35	-1.85	-25.00	-27.75
5160.000	-31.82	-39.49	12.16	-4.49	-25.00	-6.82
5199.600	-32.34	-40.24	12.40	-4.50	-25.00	-7.34
7740.000	-30.93	-36.68	11.50	-5.75	-25.00	-5.93
7799.400	-29.84	-35.50	11.50	-5.84	-25.00	-4.84

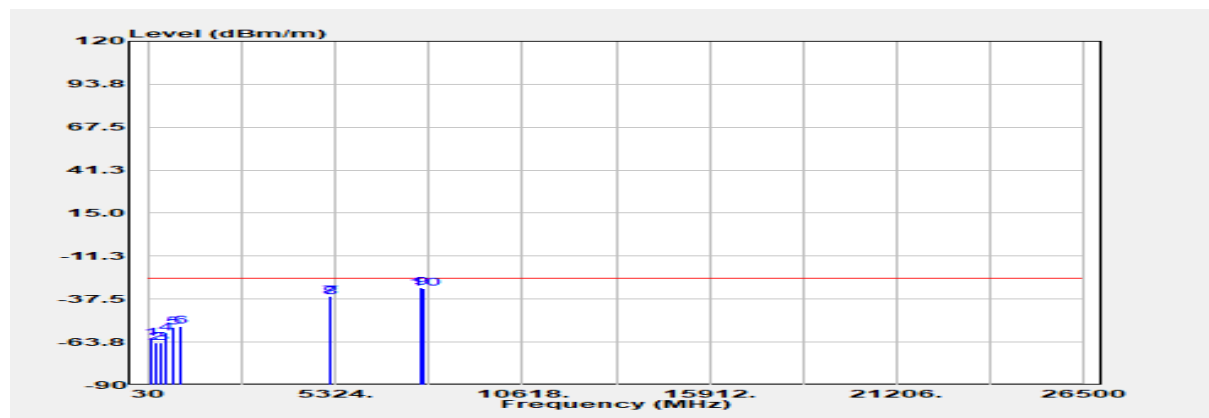
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Report Number :E2/2021/10106
 Operation Mode :LTE B38C
 Test Mode :TX CH LOW
 EUT Pol :NB Plane
 Test Frequency :2580+2599.8 MHz

Test Site :966 Chamber D
 Test Date :2021-04-20
 Temp./Humi. :21.8/68
 Antenna Pol. :Horizontal
 Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.540	-61.49	-54.42	-6.46	-0.61	-25.00	-36.49
266.680	-64.32	-62.57	-0.76	-0.99	-25.00	-39.32
401.510	-64.26	-62.23	-0.63	-1.40	-25.00	-39.26
533.430	-58.49	-56.63	-0.80	-1.06	-25.00	-33.49
730.340	-54.67	-51.50	-1.17	-2.00	-25.00	-29.67
960.230	-54.13	-50.79	-1.49	-1.85	-25.00	-29.13
5160.000	-36.04	-43.71	12.16	-4.49	-25.00	-11.04
5199.600	-36.16	-44.06	12.40	-4.50	-25.00	-11.16
7740.000	-30.36	-36.11	11.50	-5.75	-25.00	-5.36
7799.400	-31.19	-36.85	11.50	-5.84	-25.00	-6.19

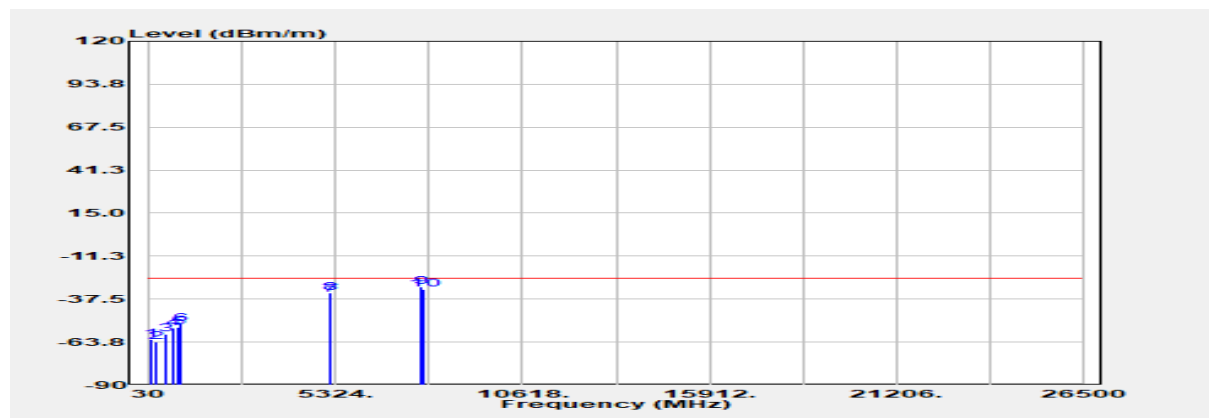
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Report Number :E2/2021/10106
Operation Mode :LTE B38C
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2585.1+2604.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.8/68
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.450	-62.04	-54.85	-6.57	-0.62	-25.00	-37.04
247.280	-63.89	-62.09	-0.82	-0.98	-25.00	-38.89
572.230	-59.03	-56.37	-0.88	-1.78	-25.00	-34.03
741.010	-55.21	-51.92	-1.39	-1.90	-25.00	-30.21
860.320	-55.00	-52.21	-1.25	-1.54	-25.00	-30.00
962.170	-52.69	-49.36	-1.47	-1.86	-25.00	-27.69
5170.200	-34.60	-42.33	12.22	-4.49	-25.00	-9.60
5209.800	-33.59	-41.58	12.48	-4.49	-25.00	-8.59
7755.300	-30.06	-35.83	11.50	-5.73	-25.00	-5.06
7814.700	-31.36	-37.00	11.44	-5.80	-25.00	-6.36

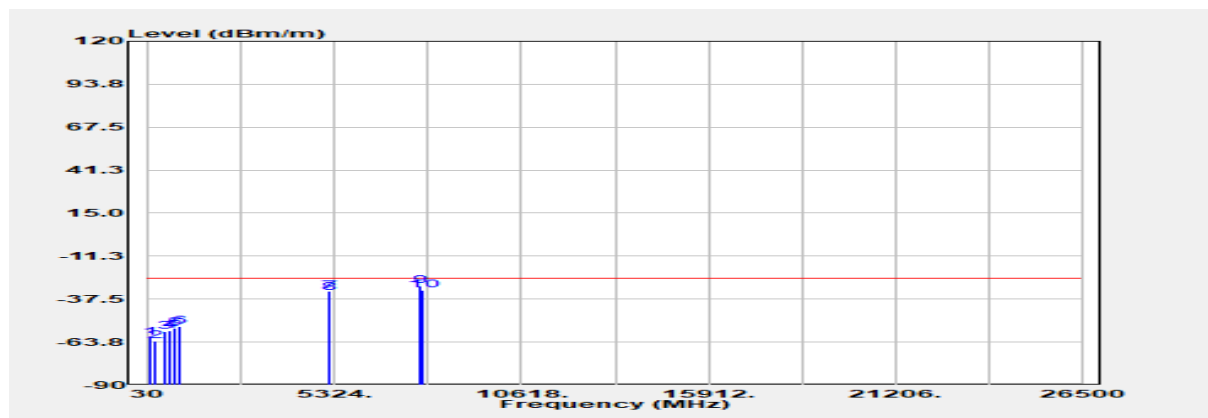
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Report Number :E2/2021/10106
Operation Mode :LTE B38C
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2585.1+2604.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.8/68
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
105.660	-60.89	-54.03	-6.26	-0.60	-25.00	-35.89
276.380	-63.18	-61.19	-0.99	-1.00	-25.00	-38.18
540.220	-57.39	-55.47	-0.79	-1.13	-25.00	-32.39
684.750	-56.79	-54.49	-0.93	-1.37	-25.00	-31.79
846.740	-55.12	-52.38	-1.18	-1.56	-25.00	-30.12
975.750	-54.17	-50.90	-1.34	-1.93	-25.00	-29.17
5170.200	-32.74	-40.47	12.22	-4.49	-25.00	-7.74
5209.800	-33.61	-41.60	12.48	-4.49	-25.00	-8.61
7755.300	-29.34	-35.11	11.50	-5.73	-25.00	-4.34
7814.700	-32.17	-37.81	11.44	-5.80	-25.00	-7.17

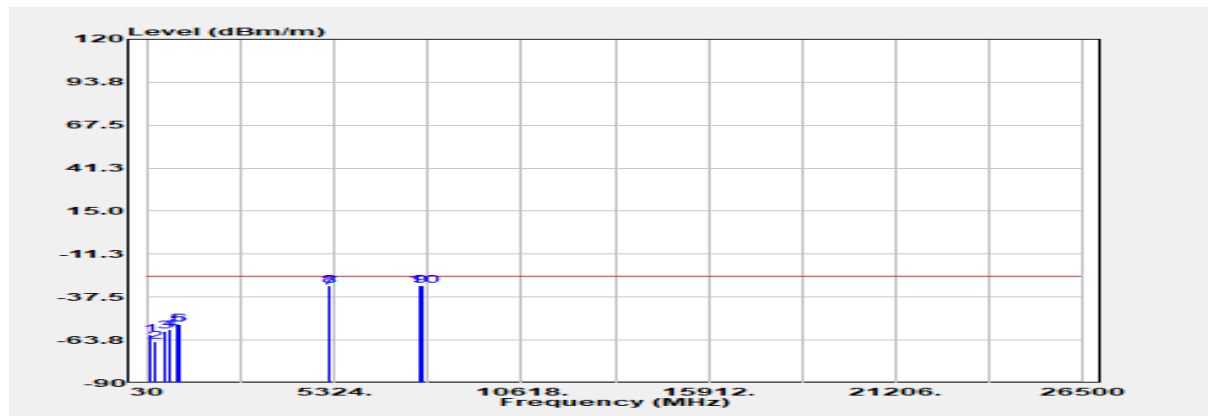
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Report Number :E2/2021/10106
Operation Mode :LTE B38C
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2590.2+2610 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.8/68
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.510	-60.70	-53.62	-6.47	-0.61	-25.00	-35.70
258.920	-64.56	-62.89	-0.68	-0.99	-25.00	-39.56
549.920	-58.58	-56.40	-0.73	-1.45	-25.00	-33.58
698.330	-57.41	-55.03	-1.03	-1.35	-25.00	-32.41
903.970	-54.46	-51.37	-1.18	-1.91	-25.00	-29.46
976.720	-54.42	-51.18	-1.31	-1.93	-25.00	-29.42
5180.400	-31.49	-39.27	12.28	-4.50	-25.00	-6.49
5220.000	-30.75	-38.82	12.56	-4.49	-25.00	-5.75
7770.600	-30.33	-36.06	11.50	-5.77	-25.00	-5.33
7830.000	-30.48	-36.10	11.38	-5.76	-25.00	-5.48

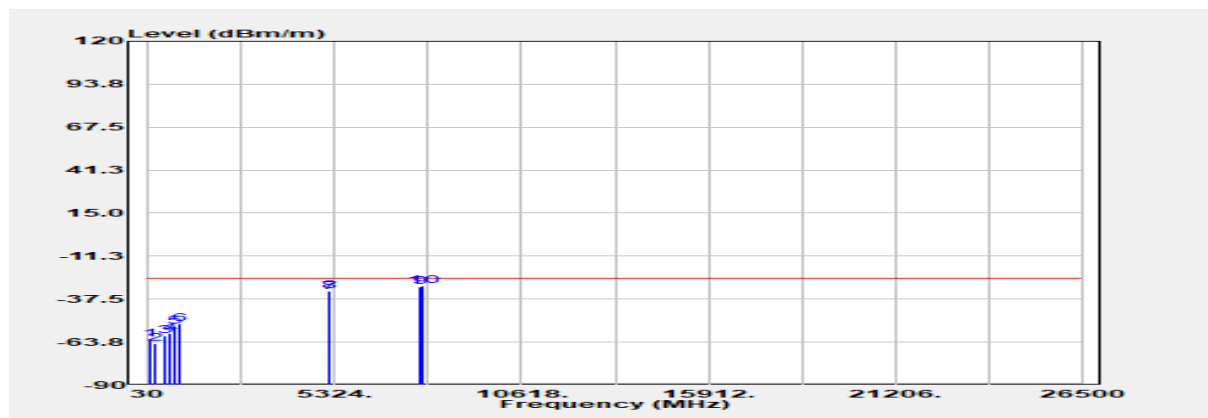
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Report Number :E2/2021/10106
Operation Mode :LTE B38C
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2590.2+2610 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.8/68
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.600	-62.19	-55.29	-6.30	-0.60	-25.00	-37.19
274.440	-64.54	-62.60	-0.95	-0.99	-25.00	-39.54
515.970	-60.08	-58.11	-0.80	-1.17	-25.00	-35.08
670.200	-58.53	-55.78	-1.02	-1.73	-25.00	-33.53
813.760	-53.99	-50.87	-1.23	-1.89	-25.00	-28.99
940.830	-52.60	-49.37	-1.47	-1.76	-25.00	-27.60
5180.400	-33.08	-40.86	12.28	-4.50	-25.00	-8.08
5220.000	-32.43	-40.50	12.56	-4.49	-25.00	-7.43
7770.600	-29.95	-35.68	11.50	-5.77	-25.00	-4.95
7830.000	-29.37	-34.99	11.38	-5.76	-25.00	-4.37

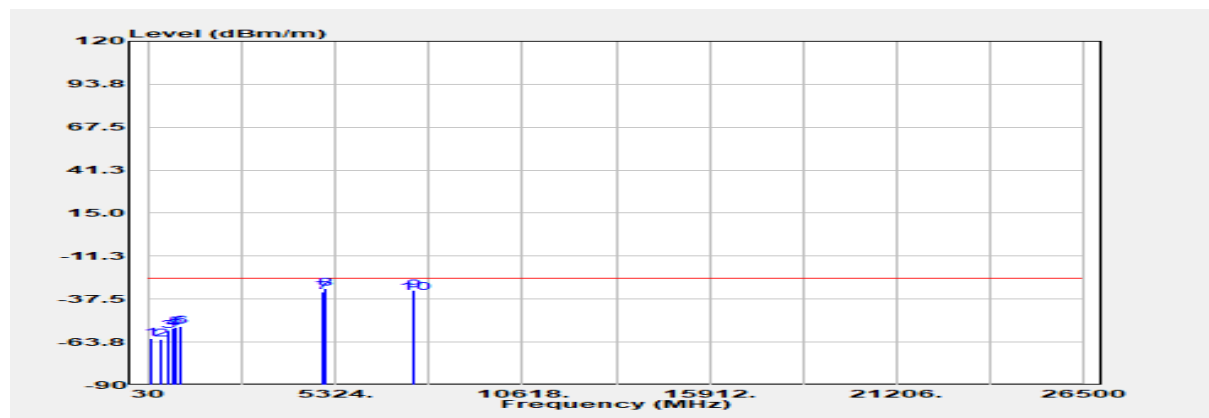
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Report Number :E2/2021/10106
Operation Mode :LTE B41C
Test Mode :TX CH LOW
EUT Pol :NB Plane
Test Frequency :2506+2525.8 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.9/69
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.480	-61.34	-54.29	-6.44	-0.61	-25.00	-36.34
379.200	-61.91	-60.21	-0.54	-1.16	-25.00	-36.91
633.340	-56.69	-53.78	-1.27	-1.64	-25.00	-31.69
761.380	-55.38	-52.36	-1.51	-1.51	-25.00	-30.38
844.800	-54.84	-52.06	-1.20	-1.58	-25.00	-29.84
958.290	-54.36	-51.08	-1.44	-1.84	-25.00	-29.36
5012.000	-33.26	-41.25	12.40	-4.41	-25.00	-8.26
5051.600	-31.06	-38.74	12.10	-4.42	-25.00	-6.06
7518.000	-32.29	-37.81	11.04	-5.52	-25.00	-7.29
7577.400	-33.54	-39.07	11.15	-5.62	-25.00	-8.54

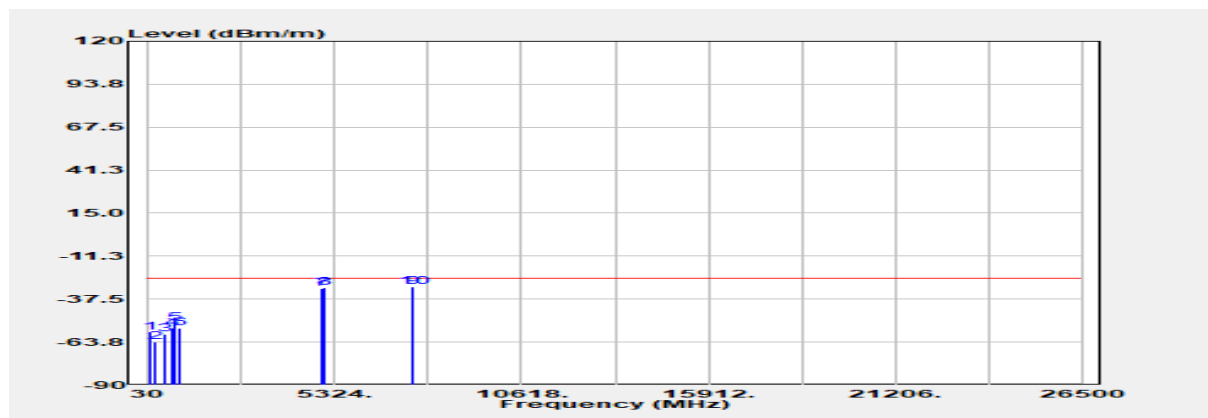
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Report Number :E2/2021/10106
 Operation Mode :LTE B41C
 Test Mode :TX CH LOW
 EUT Pol :NB Plane
 Test Frequency :2506+2525.8 MHz

Test Site :966 Chamber D
 Test Date :2021-04-20
 Temp./Humi. :21.9/69
 Antenna Pol. :Horizontal
 Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
106.630	-58.00	-51.09	-6.31	-0.60	-25.00	-33.00
256.980	-63.57	-61.84	-0.74	-0.99	-25.00	-38.57
536.340	-58.74	-56.87	-0.78	-1.09	-25.00	-33.74
729.370	-55.14	-51.99	-1.16	-1.99	-25.00	-30.14
840.920	-52.16	-49.32	-1.24	-1.60	-25.00	-27.16
967.990	-55.28	-51.96	-1.42	-1.90	-25.00	-30.28
5012.000	-31.25	-39.24	12.40	-4.41	-25.00	-6.25
5051.600	-30.77	-38.45	12.10	-4.42	-25.00	-5.77
7518.000	-29.87	-35.39	11.04	-5.52	-25.00	-4.87
7577.400	-30.15	-35.68	11.15	-5.62	-25.00	-5.15

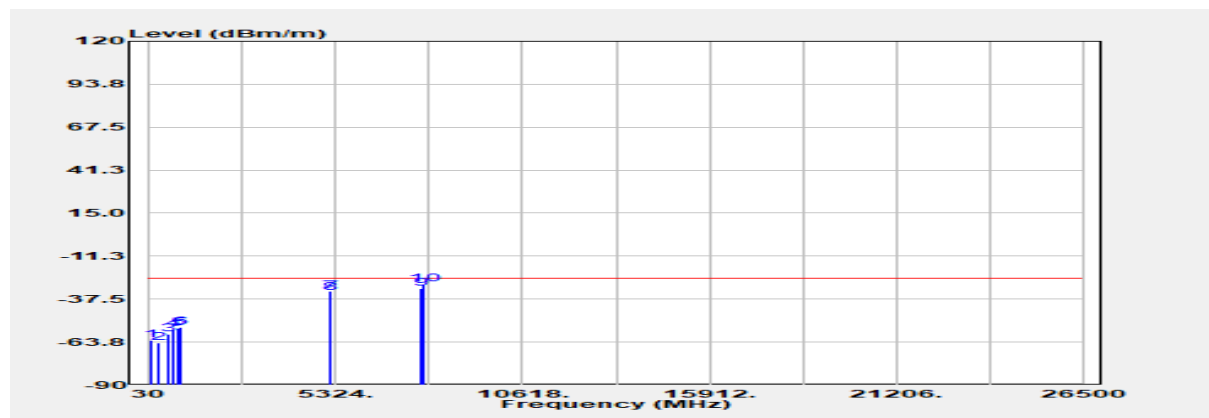
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Report Number :E2/2021/10106
 Operation Mode :LTE B41C
 Test Mode :TX CH MID
 EUT Pol :NB Plane
 Test Frequency :2583.1+2602.9 MHz

Test Site :966 Chamber D
 Test Date :2021-04-20
 Temp./Humi. :21.9/69
 Antenna Pol. :Vertical
 Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
112.450	-62.64	-55.45	-6.57	-0.62	-25.00	-37.64
316.150	-64.11	-61.96	-0.99	-1.16	-25.00	-39.11
583.870	-58.77	-56.10	-0.99	-1.68	-25.00	-33.77
767.200	-55.68	-52.75	-1.49	-1.44	-25.00	-30.68
891.360	-55.08	-52.14	-1.06	-1.88	-25.00	-30.08
989.330	-54.90	-51.74	-1.22	-1.94	-25.00	-29.90
5166.200	-32.61	-40.32	12.20	-4.49	-25.00	-7.61
5205.800	-33.94	-41.89	12.45	-4.50	-25.00	-8.94
7749.300	-31.00	-36.78	11.50	-5.72	-25.00	-6.00
7808.700	-28.43	-34.08	11.47	-5.82	-25.00	-3.43

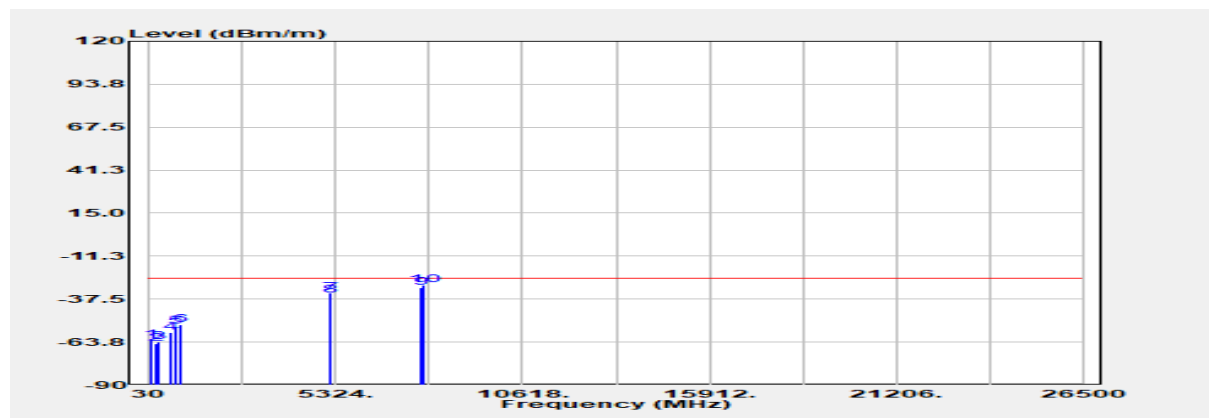
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Report Number :E2/2021/10106
Operation Mode :LTE B41C
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2583.1+2602.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :21.9/69
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
111.480	-62.51	-55.46	-6.44	-0.61	-25.00	-37.51
296.750	-64.62	-62.54	-1.03	-1.05	-25.00	-39.62
354.950	-63.88	-62.30	-0.44	-1.14	-25.00	-38.88
664.380	-57.90	-55.03	-1.06	-1.81	-25.00	-32.90
838.010	-54.27	-51.35	-1.27	-1.65	-25.00	-29.27
962.170	-53.17	-49.84	-1.47	-1.86	-25.00	-28.17
5166.200	-33.63	-41.34	12.20	-4.49	-25.00	-8.63
5205.800	-35.29	-43.24	12.45	-4.50	-25.00	-10.29
7749.300	-30.67	-36.45	11.50	-5.72	-25.00	-5.67
7808.700	-28.89	-34.54	11.47	-5.82	-25.00	-3.89

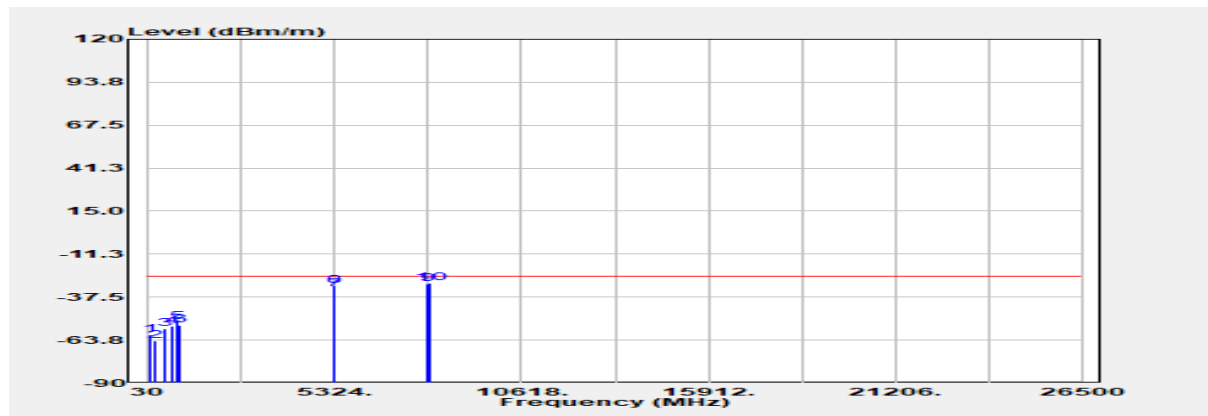
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Report Number :E2/2021/10106
Operation Mode :LTE B41C
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2660.2+2680 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
106.630	-60.67	-53.76	-6.31	-0.60	-25.00	-35.67
256.010	-64.41	-62.64	-0.78	-0.99	-25.00	-39.41
542.160	-56.90	-54.91	-0.80	-1.19	-25.00	-31.90
741.980	-55.33	-52.04	-1.42	-1.87	-25.00	-30.33
895.240	-52.77	-49.78	-1.10	-1.89	-25.00	-27.77
977.690	-54.59	-51.38	-1.28	-1.93	-25.00	-29.59
5320.400	-32.61	-41.07	13.00	-4.54	-25.00	-7.61
5360.000	-30.57	-38.98	12.96	-4.55	-25.00	-5.57
7980.600	-29.62	-34.83	11.00	-5.79	-25.00	-4.62
8040.000	-28.90	-34.16	11.00	-5.74	-25.00	-3.90

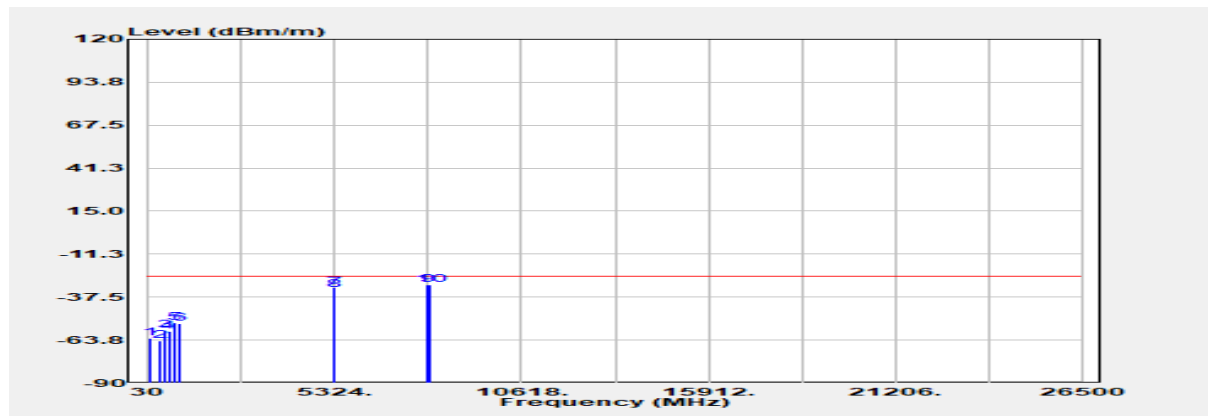
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Report Number :E2/2021/10106
Operation Mode :LTE B41C
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2660.2+2680 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
101.780	-62.45	-55.94	-5.92	-0.59	-25.00	-37.45
399.570	-63.97	-61.98	-0.60	-1.39	-25.00	-38.97
548.950	-58.00	-55.83	-0.75	-1.42	-25.00	-33.00
645.950	-58.31	-55.14	-1.24	-1.93	-25.00	-33.31
813.760	-53.26	-50.14	-1.23	-1.89	-25.00	-28.26
981.570	-53.50	-50.36	-1.20	-1.94	-25.00	-28.50
5320.400	-31.37	-39.83	13.00	-4.54	-25.00	-6.37
5360.000	-32.90	-41.31	12.96	-4.55	-25.00	-7.90
7980.600	-30.16	-35.37	11.00	-5.79	-25.00	-5.16
8040.000	-30.09	-35.35	11.00	-5.74	-25.00	-5.09

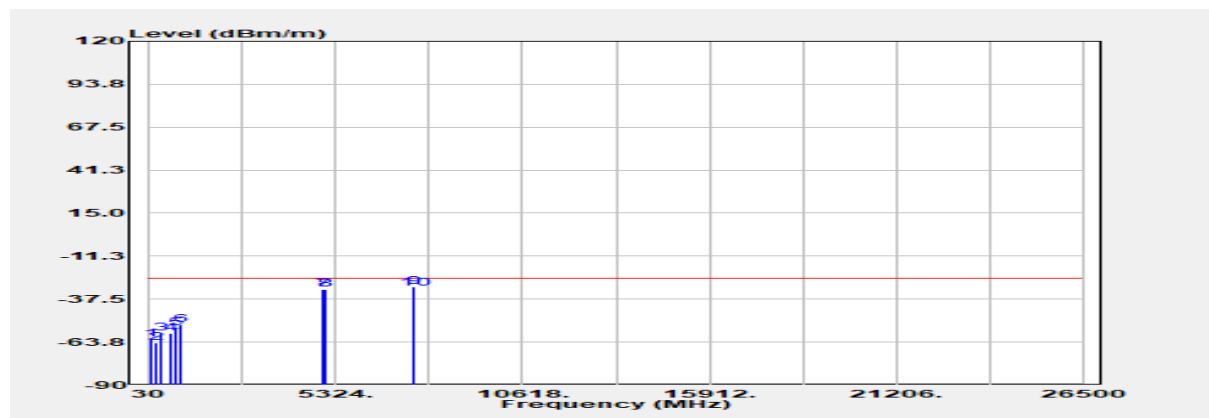
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Report Number :E2/2021/10106
 Operation Mode :LTE B41C HPUE
 Test Mode :TX CH LOW
 EUT Pol :NB Plane
 Test Frequency :2506+2525.8 MHz

Test Site :966 Chamber D
 Test Date :2021-04-20
 Temp./Humi. :22.0/70
 Antenna Pol. :Vertical
 Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.600	-62.13	-55.23	-6.30	-0.60	-25.00	-37.13
248.250	-64.05	-62.26	-0.81	-0.98	-25.00	-39.05
433.520	-58.51	-56.36	-0.94	-1.21	-25.00	-33.51
664.380	-58.39	-55.52	-1.06	-1.81	-25.00	-33.39
812.790	-55.05	-51.93	-1.24	-1.88	-25.00	-30.05
954.410	-52.92	-49.75	-1.35	-1.82	-25.00	-27.92
5012.000	-31.77	-39.76	12.40	-4.41	-25.00	-6.77
5051.600	-31.54	-39.22	12.10	-4.42	-25.00	-6.54
7518.000	-29.76	-35.28	11.04	-5.52	-25.00	-4.76
7577.400	-31.07	-36.60	11.15	-5.62	-25.00	-6.07

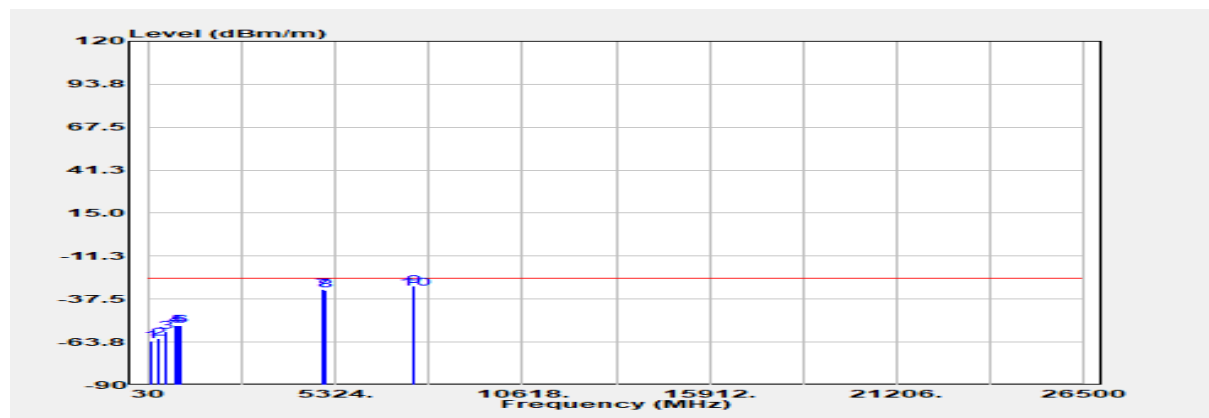
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Report Number :E2/2021/10106
Operation Mode :LTE B41C HPUE
Test Mode :TX CH LOW
EUT Pol :NB Plane
Test Frequency :2506+2525.8 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
110.510	-63.15	-56.07	-6.47	-0.61	-25.00	-38.15
357.860	-61.84	-60.25	-0.48	-1.11	-25.00	-36.84
543.130	-57.48	-55.46	-0.80	-1.22	-25.00	-32.48
787.570	-53.65	-50.66	-1.47	-1.52	-25.00	-28.65
897.180	-53.90	-50.92	-1.08	-1.90	-25.00	-28.90
977.690	-53.44	-50.23	-1.28	-1.93	-25.00	-28.44
5012.000	-31.32	-39.31	12.40	-4.41	-25.00	-6.32
5051.600	-32.31	-39.99	12.10	-4.42	-25.00	-7.31
7518.000	-29.69	-35.21	11.04	-5.52	-25.00	-4.69
7577.400	-30.95	-36.48	11.15	-5.62	-25.00	-5.95

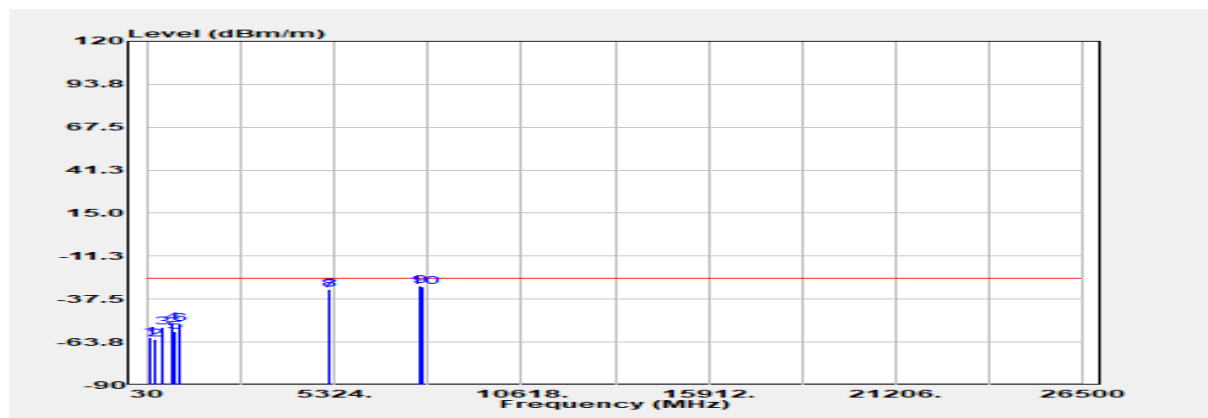
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Report Number :E2/2021/10106
Operation Mode :LTE B41C HPUE
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2583.1+2602.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
107.600	-61.13	-54.23	-6.30	-0.60	-25.00	-36.13
282.200	-61.95	-59.88	-1.07	-1.00	-25.00	-36.95
491.720	-54.62	-52.31	-0.68	-1.63	-25.00	-29.62
721.610	-51.89	-49.31	-0.76	-1.82	-25.00	-26.89
844.800	-57.54	-54.76	-1.20	-1.58	-25.00	-32.54
944.710	-52.62	-49.42	-1.43	-1.77	-25.00	-27.62
5166.200	-32.36	-40.07	12.20	-4.49	-25.00	-7.36
5205.800	-31.67	-39.62	12.45	-4.50	-25.00	-6.67
7749.300	-29.60	-35.38	11.50	-5.72	-25.00	-4.60
7808.700	-29.89	-35.54	11.47	-5.82	-25.00	-4.89

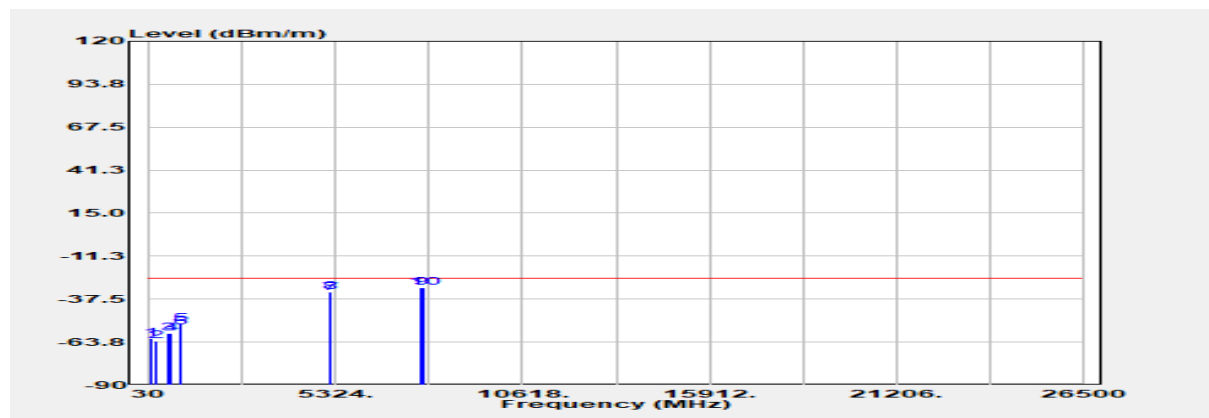
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Report Number :E2/2021/10106
Operation Mode :LTE B41C HPUE
Test Mode :TX CH MID
EUT Pol :NB Plane
Test Frequency :2583.1+2602.9 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.540	-61.57	-54.50	-6.46	-0.61	-25.00	-36.57
276.380	-62.98	-60.99	-0.99	-1.00	-25.00	-37.98
600.360	-58.28	-55.78	-1.29	-1.21	-25.00	-33.28
687.660	-58.22	-55.95	-0.95	-1.32	-25.00	-33.22
933.070	-52.88	-49.71	-1.40	-1.77	-25.00	-27.88
983.510	-54.76	-51.64	-1.18	-1.94	-25.00	-29.76
5166.200	-33.63	-41.34	12.20	-4.49	-25.00	-8.63
5205.800	-33.35	-41.30	12.45	-4.50	-25.00	-8.35
7749.300	-30.51	-36.29	11.50	-5.72	-25.00	-5.51
7808.700	-30.57	-36.22	11.47	-5.82	-25.00	-5.57

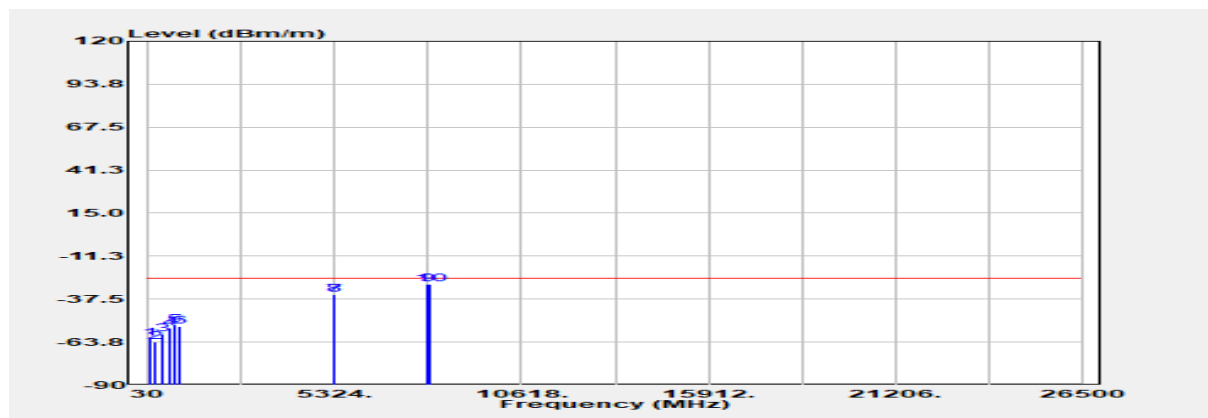
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Report Number :E2/2021/10106
Operation Mode :LTE B41C HPUE
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2660.2+2680 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Vertical
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
101.780	-61.78	-55.27	-5.92	-0.59	-25.00	-36.78
239.520	-63.75	-62.10	-0.71	-0.94	-25.00	-38.75
498.510	-58.90	-56.66	-0.69	-1.55	-25.00	-33.90
688.630	-55.17	-52.92	-0.95	-1.30	-25.00	-30.17
847.710	-53.10	-50.37	-1.17	-1.56	-25.00	-28.10
970.900	-54.09	-50.79	-1.39	-1.91	-25.00	-29.09
5320.400	-34.49	-42.95	13.00	-4.54	-25.00	-9.49
5360.000	-34.49	-42.90	12.96	-4.55	-25.00	-9.49
7980.600	-28.53	-33.74	11.00	-5.79	-25.00	-3.53
8040.000	-28.48	-33.74	11.00	-5.74	-25.00	-3.48

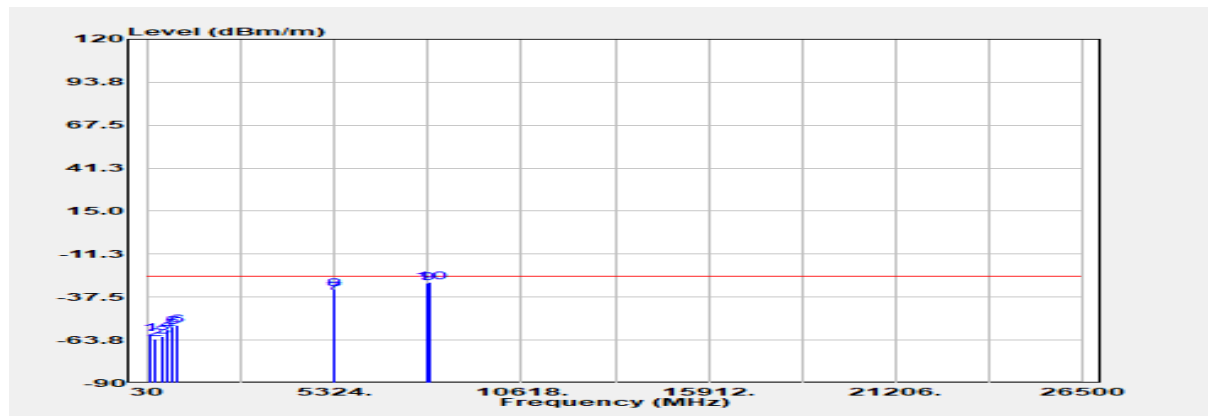
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Report Number :E2/2021/10106
Operation Mode :LTE B41C HPUE
Test Mode :TX CH HIGH
EUT Pol :NB Plane
Test Frequency :2660.2+2680 MHz

Test Site :966 Chamber D
Test Date :2021-04-20
Temp./Humi. :22.0/70
Antenna Pol. :Horizontal
Engineer :Kailin Lee



Freq. MHz	EIRP/ERP dBm	SG Output Level dBm	Antenna Gain dBi/dBd	Cable Loss dB	Limit dBm	Margin dB
109.540	-60.08	-53.01	-6.46	-0.61	-25.00	-35.08
265.710	-63.01	-61.31	-0.71	-0.99	-25.00	-38.01
476.200	-61.60	-59.32	-0.81	-1.47	-25.00	-36.60
591.630	-57.67	-55.07	-1.13	-1.47	-25.00	-32.67
743.920	-55.73	-52.43	-1.47	-1.83	-25.00	-30.73
907.850	-54.49	-51.33	-1.24	-1.92	-25.00	-29.49
5320.400	-34.60	-43.06	13.00	-4.54	-25.00	-9.60
5360.000	-32.45	-40.86	12.96	-4.55	-25.00	-7.45
7980.600	-28.96	-34.17	11.00	-5.79	-25.00	-3.96
8040.000	-28.37	-33.63	11.00	-5.74	-25.00	-3.37

~ End of Report ~

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