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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

HP Inc. Applicant:

1501 Page Mill Road, Palo Alto CA 94304 USA

Product Name: Notebook Computer

HP **Brand Name:**

Model No.: HSN-I41C-4

Model Difference: N/A

Report Number: ER/2020/80164 FCC ID B94HNI41C4TKR

FCC Rule Part: 2, 22H & 24E & 27 C

Issue Date: Oct. 28, 2020

Date of Test: Aug. 31, 2020 ~ Sep. 21, 2020

Date of EUT Received: Aug. 31, 2020

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 tested as described in this report is in compliance with conducted and radiated emission limits.

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

Approved By:

Jim Chang / Manager





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Revision History									
Report Number	Revision	Description	Issue Date	Remark					
ER/2020/80164	Rev.00	Original.	Oct. 28, 2020	Revised By: Violetta Tang					

Note:

1、 Disclaimer

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

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With ### April # fullest extent of the law.

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GENERAL PRODUCT INFORMATION

Product Description

General:

		_
Product Name:	Notebook	Computer
Brand Name:	HP	
Model No.:	HSN-I41C	-4
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
WWAN Module:	Model No.	: T99W175, Supplier: HON LIN Technology Co., Ltd.
		from Rechargeable Li-ion Battery rom AC/DC Adapter
Power Supply:	Battery:	Model No.: HSTNN-LB8Q, Supplier: HP
	Adapter:	Model No.: TPN-DA16, Supplier: DELTA
IMEI:	WNC: 356	081110011236 / HB: 356081110009362

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1.2 **Operation Frequency Range**

Tion Frequ	uency Rang			<u> </u>	EQ ND	_	
	5G NR n	2			5G NR	n5	
BW (MHz)	Operation F	requ	iency (MHz)	BW (MHz)	Operation	Frequ	ency (MHz)
5	1852.5	-	1907.5	5	826.5	-	846.5
10	1855.0	-	1905.0	10	829.0	-	844.0
15	1857.5	-	1902.5	15	831.5	-	841.5
20	1860.0	-	1900.0	20	834.0	-	839.0
	5G NR n	7					
BW (MHz)	Operation F	requ	iency (MHz)		5G NR r	112	
5	2502.5	-	2567.5	BW (MHz)	Operation	Frequ	ency (MHz)
10	2505.0	-	2565.0	5	701.5	-	713.5
15	2507.5	-	2562.5	10	704.0	-	711.0
20	2510.0	-	2560.0	15	706.5	-	708.5
	5G NR n4	1					
BW (MHz)	Operation F	requ	iency (MHz)				
20	2506	-	2680				
40	2516	-	2670		5G NR r	166	
50	2521	-	2665	BW (MHz)	Operation	Frequ	ency (MHz)
60	2526	-	2660	5	1712.5	-	1777.5
80	2536	-	2650	10	1715	-	1775
90	2541	-	2645	15	1717.5	-	1772.5
100	2546	-	2640	20	1720	-	1770

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Antenna Designation 1.3

Vendor T	Туре	TX1 / TX2	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
				LTE Band 2 or 5G NR n2	1850 ~ 1910	0.64
AWAN P	PIFA	TX1	6036B0257001 (AUP6Y-100031)	LTE Band 5 or 5G NR n5	824 ~ 849	-2.2
				LTE Band 12 or 5G NR n12	699 ~ 716	-0.8

Vendor	Туре	TX1 / TX2	Antenna Part No.	Modulation	Frequen (MHz)	су	Peak Antenna Gain (dBi)
				LTE Band 2 or 5G NR n2	1850 ~	1910	0.68
HONG-BO	PIFA	TX1	6036B0257501 (260-27371)	LTE Band 5 or 5G NR n5	824 ~	849	-0.4
				LTE Band 12 or 5G NR n12	699 ~	716	-2.28

Vendor	Туре	TX1 / TX2	Antenna Part No.	Modulation		equeno (MHz)	Су	Peak Antenna Gain (dBi)
				LTE Band 2 or 5G NR n2	1850	~	1910	0.94
WNC	PIFA	TX1	6036B0255101 (81EABB15.G41)	LTE Band 5 or 5G NR n5	824	~	849	-0.22
				LTE Band 12 or 5G NR n12	699	1	716	-3.14

Vendor	Туре	TX1 / TX2	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
				LTE Band 2 or 5G NR n2	1850 ~ 1910	-0.33
AWAN	PIFA	TX2	6036B0281201 (AUP6Y-100073)	LTE Band 7 or 5G NR n7	2500 ~ 2570	0.75
AVVAIN	PIFA	172	0030B0261201 (AUP01-100073)	5G NR n41	2496 ~ 2690	-3.21
				LTE Band 66 or 5G NR n66	1710 ~ 1780	-3.85

Vendor	Туре	TX1 / TX2	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
				LTE Band 2 or 5G NR n2	1850 ~ 1910	0.44
HONG-BO	PIFA	TX2	(02/00270401 (2/0 27440)	LTE Band 7 or 5G NR n7	2500 ~ 2570	-5.06
HONG-BO	PIFA	IAZ	6036B0278401 (260-27440)	5G NR n41	2496 ~ 2690	-2.31
				LTE Band 66 or 5G NR n66	1710 ~ 1780	0.07

Vendor	Туре	TX1 / TX2	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
				LTE Band 2 or 5G NR n2	1850 ~ 1910	-1.21
WNC	PIFA	TX2	4024D0277401 (01EADD1E C07)	LTE Band 7 or 5G NR n7	2500 ~ 2570	-3.39
VVIVC	PIFA	172	6036B0277601 (81EABD15.G07)	5G NR n41	2496 ~ 2690	3.39
				LTE Band 66 or 5G NR n66	1710 ~ 1780	-0.14

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Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

Test Facility 1.5

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)

No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 FCC Designation number: TW0027

1.6 Special Accessories

No special accessories were used during testing.

Equipment Modifications

There was no modifications incorporated into the EUT.

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

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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SYSTEM TEST CONFIGURATION

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.

EUT Exercise 2.2

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**

Radiated Emissions (ERP/EIRP) 2.3.1

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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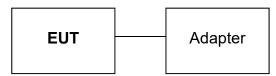
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2.4 **Configuration of Tested System**

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



Remote Side

E7515B

Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	UXM 5G	KEYSIGHT	E7515B	MY59321561	shielded	Un-shielded

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SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h) §27.53(m)(4)	Field Strength of Spurious Radiation	Compliant

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DESCRIPTION OF TEST MODES

The Worst Test Modes and Channel Details

- The EUT has been tested under operating condition.
- The EUT only supports with below SCS and Bandwidth in each 5G NR Band.

5G NR BAND	SCS (kHz)	Bandwidth (MHz)
n2	15	5, 10, 15, 20
n5	15	5, 10, 15, 20
n7	15	5, 10, 15, 20
n12	15	5, 10, 15
n41	15	20, 40, 50, 60, 80, 90, 100
n66	15	5, 10, 15, 20

The field strength of radiation emission was measured as NB Plane for Transmitter for channel Low, Mid and High.

4.2 **Measurement Configuration**

5G NR	scs	Test	Channel Bandwidth Modulation		Resource Alloca		Antenna
Band		Channel	(MHz)	Wodalation	RBs allocated	RB Start	7 anoma
n41A	30K	509202	100	DFT-S-OFDM Pi/2 BPSK	1RB Left		НВ
n41A	30K	518598	100	DFT-S-OFDM Pi/2 BPSK	1RB Left		НВ
n41A	30K	528000	100	DFT-S-OFDM Pi/2 BPSK	1RB Left		НВ

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ENDC

					_			
5G NR SCS		SCS Test		Modulation	Resource Block Allocation		Antenna	
Band	I ('hannel I		(MHz)			RB Start		
n2A	15K	372000	20	DFT-S-OFDM Pi/2 BPSK	1RE	l Left	WNC	
n2A	15K	376000	20	DFT-S-OFDM Pi/2 BPSK	1RE	l Left	WNC	
n2A	15K	380000	20	DFT-S-OFDM Pi/2 BPSK	1RB Left		WNC	
n5A	15K	166800	20	DFT-S-OFDM Pi/2 BPSK	1RB Left		WNC	
n5A	15K	167300	20	DFT-S-OFDM Pi/2 BPSK	1RB Left		WNC	
n5A	15K	167800	20	DFT-S-OFDM Pi/2 BPSK	1RB Left		WNC	
n7A	15K	502000	20	DFT-S-OFDM Pi/2 BPSK	1RB Left		НВ	
n7A	15K	507000	20	DFT-S-OFDM Pi/2 BPSK	1RB Left		НВ	
n7A	15K	512000	20	DFT-S-OFDM Pi/2 BPSK	1RB	l Left	НВ	

Note: List of frequency bands mentioned in the measurement configuration, for comparison with 3GPP, please refer to the following table.

Band	3GPP inter-EN-DC configuration in FR1
n5A	n5A
n2A	n2A
n7A	n7A

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MEASUREMENT UNCERTAINTY

Radiated Spurious Emission:

·	9kHz – 30MHz: +/- 2.87 dB		
Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB		
	180MHz -417MHz: +/- 3.19dB		
	0.417GHz-1GHz: +/- 3.19dB		
	1GHz - 18GHz: +/- 4.04dB		
	18GHz - 40GHz: +/- 4.04dB		

	9kHz – 30MHz: +/- 2.87 dB		
Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB		
	167MHz -500MHz: +/- 3.44dB		
	0.5GHz-1GHz: +/- 3.39dB		
	1GHz - 18GHz: +/- 4.08dB		
	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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FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

Standard Applicable

According to FCC §2.1053,

FCC §22.917(a), §24.238(a), §27.53(h)

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(h)(3) for LTE B66

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. 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.

FCC §27.53(m) (4) (6) for LTE B41

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 that 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 nstrumentation 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.

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Table 2 — Unwanted Emissions for Mobile, Portable and Low-Power Fixed Subscriber Equipment

Frequency (MHz)	Attenuation (dB)
<2200	$43 + 10 \log_{10}(p)$
2200 - 2288	$70 + 10 \log_{10}(p)$
2288 - 2292	$67 + 10 \log_{10}(p)$
2292 - 2296	$61 + 10 \log_{10}(p)$
2296 - 2300	$55 + 10 \log_{10}(p)$
2300 - 2305	$43 + 10 \log_{10}(p)$
2305 - 2320	$43 + 10 \log_{10}(p)^{\text{Note}}$
2320 - 2324	$55 + 10 \log_{10}(p)$
2324 - 2328	$61 + 10 \log_{10}(p)$
2328 - 2337	$67 + 10 \log_{10}(p)$
2337 - 2341	$61 + 10 \log_{10}(p)$
2341 - 2345	$55 + 10 \log_{10}(p)$
2345 - 2360	$43 + 10 \log_{10}(p)^{\text{Note}}$
2360 - 2365	$43 + 10 \log_{10}(p)$
2365 - 2395	$70 + 10 \log_{10}(p)$
>2395	$43 + 10 \log_{10}(p)$

Note: Measured at the edges of the highest and lowest frequency range(s) in which the equipment is designed to operate. See Section 1.2 for the permitted frequency ranges for various equipment types.

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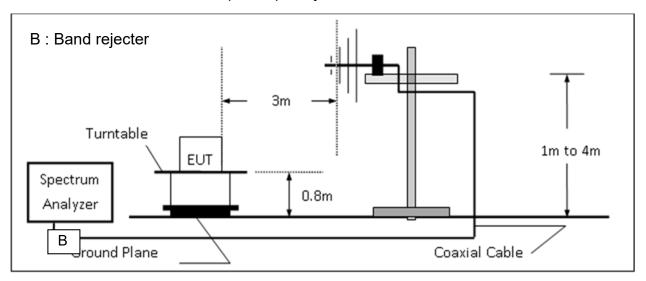
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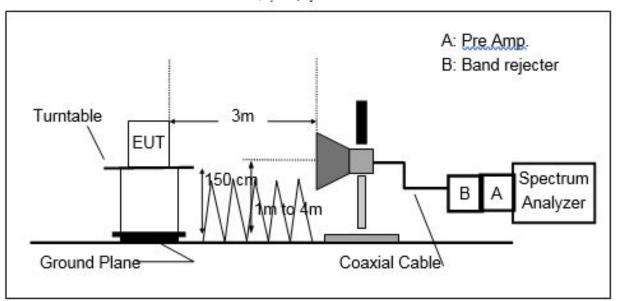


6.2 **EUT Setup**

Radiated Emission Test Set-Up, Frequency Below 1000MHz



Radiated Emission Test Set-UP Frequency Over 1 GHz



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6.3 **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)

6.4 **Measurement Equipment Used:**

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/25/2019	12/24/2020
Horn Antenna	Schwarzbeck	BBHA9120D	D803	12/20/2019	12/19/2020
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT- N0555	01/13/2020	01/12/2021
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/23/2019	10/22/2020
EMI Test Receiver	R&S	ESCI 7	100759	07/13/2020	07/12/2021
UXM 5G	KEYSIGHT	E7515B	MY59321561	12/16/2019	12/15/2020
Pre-Amplifier	EMC Instru- ments	EMC184045B	980135	01/02/2020	01/01/2021
Pre-Amplifier	EMC Instru- ments	EMC051825	980152	01/02/2020	01/01/2021
Pre-Amplifier	HP	8447D	2944A09469	01/02/2020	01/01/2021
Filter 800-1000	Micro-Tronics	EWT	M1	01/02/2020	01/01/2021
Filter 1700-2000	Micro-Tronics	EWT	М3	01/02/2020	01/01/2021
Filter 2240-2700	Micro-Tronics	WI	2	01/02/2020	01/01/2021
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	01/02/2020	01/01/2021
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	01/02/2020	01/01/2021
High Pass Filter	WI	WHKX4.0/18G-10SS	22	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	01/02/2020	01/01/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM- 2000	160123	01/02/2020	01/01/2021

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6.5 Measurement Result:

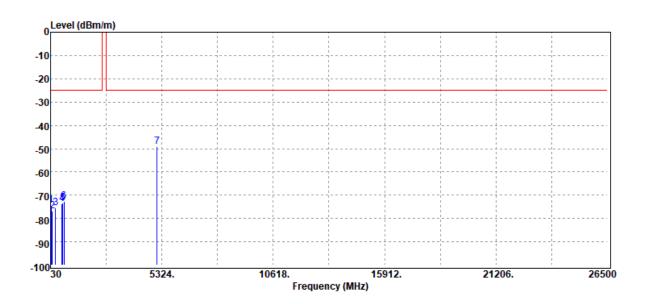
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :n41A Test Date :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL

Test Frequency :2546.01 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-74.43	-59.07	-14.61	-0.75	-25.00	-49.43
107.60	-76.85	-68.91	-6.95	-0.99	-25.00	-51.85
272.50	-75.51	-72.21	-1.77	-1.53	-25.00	-50.51
570.29	-73.77	-69.96	-1.51	-2.30	-25.00	-48.77
607.15	-73.20	-69.25	-1.90	-2.05	-25.00	-48.20
672.14	-72.76	-68.57	-1.48	-2.71	-25.00	-47.76
5092.02	-48.99	-54.74	12.52	-6.77	-25.00	-23.99

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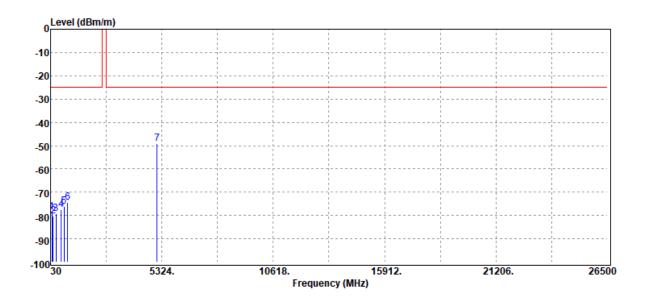
:SAC I Chamber Report Number :ER/2020/80164 Test Site

Operation Mode :n41A **Test Date** :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane :HORIZONTAL Antenna Pol.

:2546.01 MHz Test Frequency Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
·		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
102.75	-78.70	-71.30	-6.44	-0.96	-25.00	-53.70
156.10	-80.13	-71.75	-7.17	-1.21	-25.00	-55.13
285.11	-79.24	-75.82	-1.83	-1.59	-25.00	-54.24
532.46	-77.39	-74.19	-1.35	-1.85	-25.00	-52.39
679.90	-76.13	-72.31	-1.48	-2.34	-25.00	-51.13
839.95	-74.35	-69.83	-1.64	-2.88	-25.00	-49.35
5092.02	-49.13	-54.88	12.52	-6.77	-25.00	-24.13

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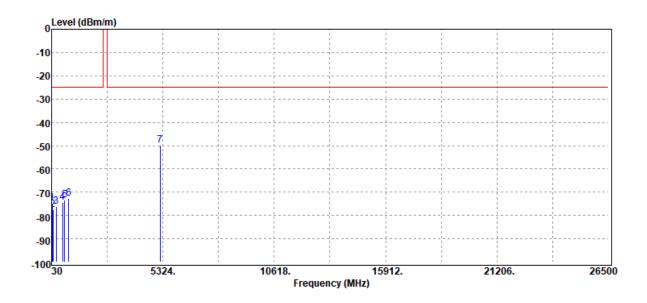
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:SAC I Chamber Report Number :ER/2020/80164 **Test Site**

Operation Mode :n41A **Test Date** :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72 **EUT Pol** :NB Plane :VERTICAL Antenna Pol.

Test Frequency :2592.99 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
·		Output Level	Gain	Loss		· ·
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
62.01	-74.78	-59.64	-14.38	-0.76	-25.00	-49.78
99.84	-77.46	-70.50	-6.01	-0.95	-25.00	-52.46
250.19	-76.25	-73.06	-1.67	-1.52	-25.00	-51.25
555.74	-74.45	-70.86	-1.34	-2.25	-25.00	-49.45
658.56	-73.26	-69.27	-1.33	-2.66	-25.00	-48.26
847.71	-72.57	-68.52	-1.56	-2.49	-25.00	-47.57
5185.98	-49.84	-55.65	12.92	-7.11	-25.00	-24.84

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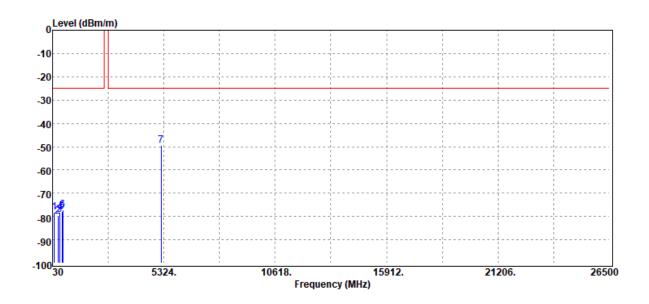
:SAC I Chamber Report Number :ER/2020/80164 **Test Site**

Operation Mode :n41A **Test Date** :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72

EUT Pol :NB Plane :HORIZONTAL Antenna Pol.

Test Frequency :2592.99 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-78.28	-69.87	-7.35	-1.06	-25.00	-53.28
284.14	-79.86	-76.44	-1.84	-1.58	-25.00	-54.86
359.80	-79.07	-75.86	-1.50	-1.71	-25.00	-54.07
390.84	-78.24	-74.92	-1.52	-1.80	-25.00	-53.24
473.29	-78.01	-74.17	-1.79	-2.05	-25.00	-53.01
526.64	-77.27	-74.00	-1.33	-1.94	-25.00	-52.27
5185.98	-49.52	-55.33	12.92	-7.11	-25.00	-24.52

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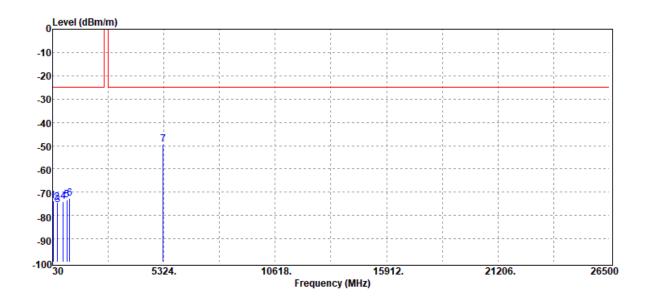
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:SAC I Chamber Report Number :ER/2020/80164 **Test Site**

Operation Mode :n41A **Test Date** :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72 **EUT Pol** :NB Plane :VERTICAL Antenna Pol.

Test Frequency :2640 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-73.60	-58.24	-14.61	-0.75	-25.00	-48.60
250.19	-74.41	-71.22	-1.67	-1.52	-25.00	-49.41
274.44	-75.28	-71.99	-1.75	-1.54	-25.00	-50.28
539.25	-73.90	-70.69	-1.29	-1.92	-25.00	-48.90
713.85	-73.31	-69.41	-1.35	-2.55	-25.00	-48.31
846.74	-72.50	-68.39	-1.57	-2.54	-25.00	-47.50
5280.00	-49.62	-55.82	13.36	-7.16	-25.00	-24.62

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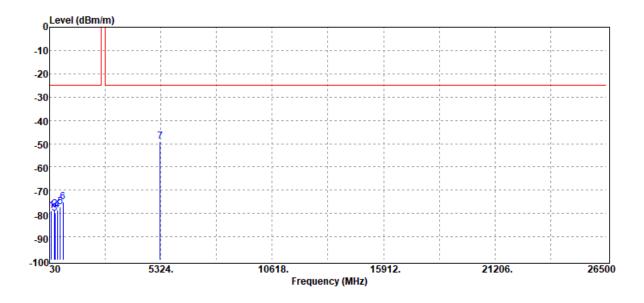
:SAC I Chamber Report Number :ER/2020/80164 **Test Site**

Operation Mode :n41A **Test Date** :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72

EUT Pol :NB Plane :HORIZONTAL Antenna Pol.

Test Frequency :2640 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
124.09	-78.87	-70.38	-7.46	-1.03	-25.00	-53.87
259.89	-78.12	-74.96	-1.63	-1.53	-25.00	-53.12
287.05	-80.00	-76.59	-1.81	-1.60	-25.00	-55.00
411.21	-78.53	-75.24	-1.39	-1.90	-25.00	-53.53
546.04	-77.04	-73.75	-1.20	-2.09	-25.00	-52.04
675.05	-75.23	-71.22	-1.44	-2.57	-25.00	-50.23
5280.00	-49.19	-55.39	13.36	-7.16	-25.00	-24.19

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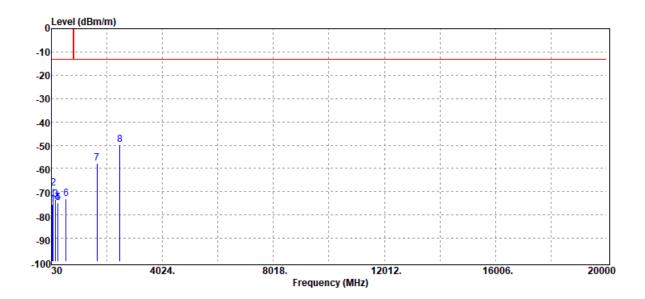
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :2A_n5A Test Date :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL

Test Frequency :1950 MHz 831.5 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-75.54	- 59.63	-15.18	-0.73	-13.00	-62.54
99.84	-68.52	- 61.56	-6.01	-0.95	-13.00	-55.52
187.14	-73.27	-68.74	-3.27	-1.26	-13.00	-60.27
259.89	-74.62	-71.46	-1.63	-1.53	-13.00	-61.62
275.41	-74.59	-71.30	-1.75	-1.54	-13.00	-61.59
558.65	-73.18	-69.55	-1.36	-2.27	-13.00	-60.18
1663.00	-57.81	-63.73	9.80	-3.88	-13.00	-44.81
2494.50	-49.85	-56.01	10.96	-4.80	-13.00	-36.85

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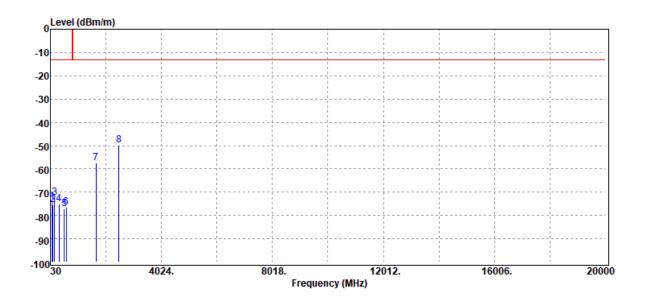
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :2A n5A Test Date :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :HORIZONTAL

Test Frequency :1950 MHz 831.5 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
95.96	-73.97	- 67.46	-5.58	-0.93	-13.00	-60.97
119.24	-75.27	- 66.89	-7.32	-1.06	-13.00	-62.27
182.29	-72.47	-67.43	-3.81	-1.23	-13.00	-59.47
345.25	-75.25	-71.83	-1.57	-1.85	-13.00	-62.25
521.79	-77.21	-73.73	-1.38	-2.10	-13.00	-64.21
605.21	-76.55	-72.55	-1.89	-2.11	-13.00	-63.55
1663.00	-57.34	-63.26	9.80	-3.88	-13.00	-44.34
2494.50	-49.81	-55.97	10.96	- 4.80	-13.00	-36.81

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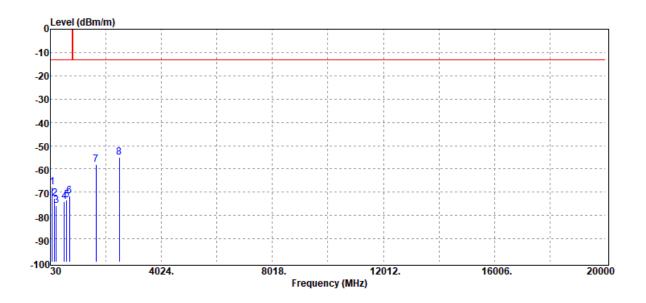
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :2A n5A Test Date :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL

Test Frequency :1950 MHz 836.5 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
·		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
101.78	-67.74	-60.45	-6.33	-0.96	-13.00	-54.74
183.26	-72.67	-67.69	-3.74	-1.24	-13.00	-59.67
241.46	-75.64	-72.43	-1.73	-1.48	-13.00	-62.64
521.79	-74.19	-70.71	-1.38	-2.10	-13.00	-61.19
618.79	-73.19	-69.35	-1.80	-2.04	-13.00	-60.19
720.64	-71.73	-67.87	-1.21	-2.65	-13.00	-58.73
1673.00	-58.00	-63.90	9.80	-3.90	-13.00	-45.00
2509.50	-54.97	-61.19	11.04	-4.82	-13.00	-41.97

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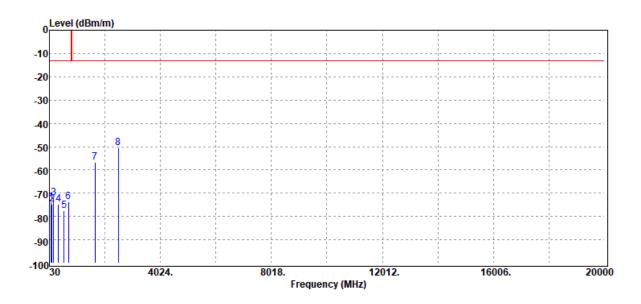
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :2A n5A Test Date :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :HORIZONTAL

Test Frequency :1950 MHz_836.5 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
91.11	-73.58	- 67.03	-5.64	-0.91	-13.00	-60.58
117.30	-74.70	-66.31	-7.34	-1.05	-13.00	-61.70
182.29	-72.02	- 66.98	-3.81	-1.23	-13.00	-59.02
348.16	-74.89	-71.50	-1.55	-1.84	-13.00	-61.89
553.80	-77.59	-74.05	-1.31	-2.23	-13.00	-64.59
723.55	-73.58	-69.58	-1.35	-2.65	-13.00	-60.58
1673.00	-56.92	-62.82	9.80	-3.90	-13.00	-43.92
2509.50	-50.36	-56.58	11.04	- 4.82	-13.00	-37.36

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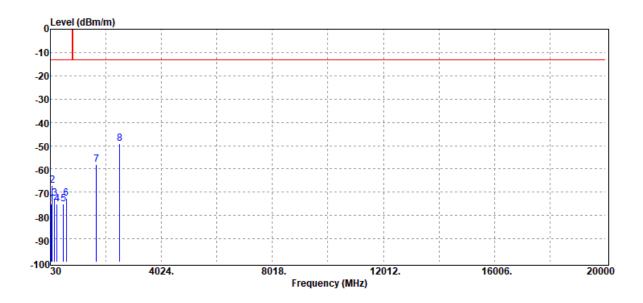
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Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :2A n5A Test Date :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL
Test Frequency :1950 MHz 841.5 MHz Engineer :Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-75.09	E0 72	-14.61	0.75	12.00	62.00
99.84	-75.09 -67.26	-59.73 -60.30	-14.61 -6.01	-0.75 -0.95	-13.00 -13.00	-62.09 -54.26
182.29	-72.74	-67.70	-3.81	-1.23	-13.00	-59.74
264.74	-75.10	-71.91	-1.66	-1.53	-13.00	-62.10
502.39	-74.94	-71.21	-1.45	-2.28	-13.00	-61.94
604.24	-72.80	-68.77	-1.89	-2.14	-13.00	-59.80
1683.00	-58.13	-64.02	9.80	- 3.91	-13.00	-45.13
2524.50	-49.22	-55.49	11.10	-4.83	-13.00	-36.22

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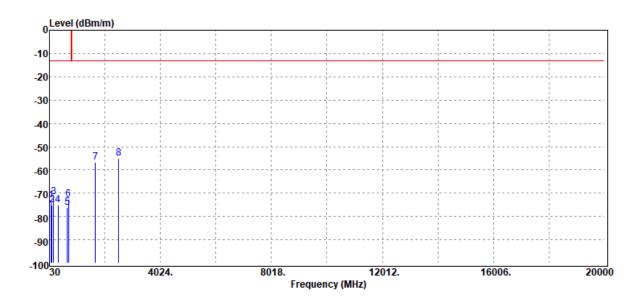
:ER/2020/80164 :SAC I Chamber Report Number Test Site

Operation Mode :2A n5A **Test Date** :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72

EUT Pol :NB Plane :HORIZONTAL Antenna Pol.

Test Frequency :1950 MHz 841.5 MHz Engineer :Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
90.14	-73.00	-66.29	-5.81	-0.90	-13.00	-60.00
119.24	-75.17	-66.79	-7.32	-1.06	-13.00	-62.17
182.29	-71.72	-66.68	-3.81	-1.23	-13.00	-58.72
347.19	-75.20	-71.80	-1.56	-1.84	-13.00	-62.20
667.29	-75.99	-71.78	-1.43	-2.78	-13.00	-62.99
720.64	-72.65	-68.79	-1.21	-2.65	-13.00	-59.65
1683.00	-56.90	-62.79	9.80	-3.91	-13.00	-43.90
2524.50	-55.00	-61.27	11.10	-4.83	-13.00	-42.00

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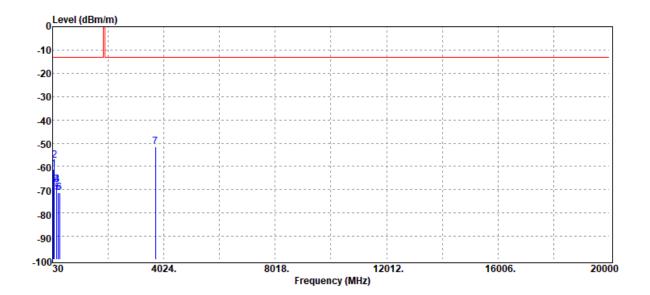
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :5A_n2A Test Date :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL

Test Frequency :836.5 MHz 1860 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
59.10	-61.09	- 45.18	-15.18	-0.73	-13.00	-48.09
95.96	-57.57	-51.06	-5.58	-0.93	-13.00	-44.57
177.44	-67.93	-62.14	-4.55	-1.24	-13.00	-54.93
185.20	-67.67	-62.95	-3.47	-1.25	-13.00	-54.67
225.94	-71.16	-68.46	-1.30	-1.40	-13.00	-58.16
287.05	-71.44	-68.03	-1.81	-1.60	-13.00	-58.44
3720.00	-51.60	-58.18	12.40	-5.82	-13.00	-38.60

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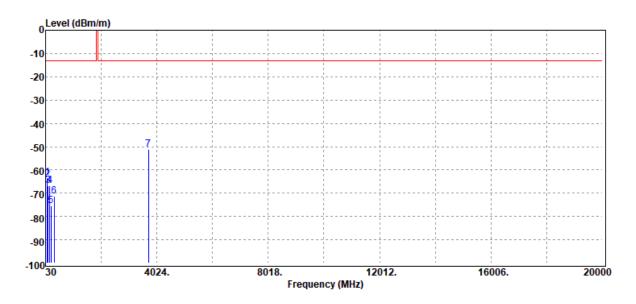
:SAC I Chamber Report Number :ER/2020/80164 Test Site

Operation Mode :5A n2A **Test Date** :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

:NB Plane **EUT Pol** :HORIZONTAL Antenna Pol.

Test Frequency :836.5 MHz 1860 MHz Engineer :Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
90.14	-63.20	- 56.49	-5.81	-0.90	-13.00	-50.20
100.81	-64.14	-56.99	-6.20	-0.95	-13.00	-51.14
117.30	-66.69	-58.30	-7.34	-1.05	-13.00	-53.69
182.29	-66.64	-61.60	-3.81	-1.23	-13.00	-53.64
228.85	-75.60	-72.81	-1.37	-1.42	-13.00	-62.60
343.31	-71.31	-67.85	-1.61	-1.85	-13.00	-58.31
3720.00	-51.07	-57.65	12.40	-5.82	-13.00	-38.07

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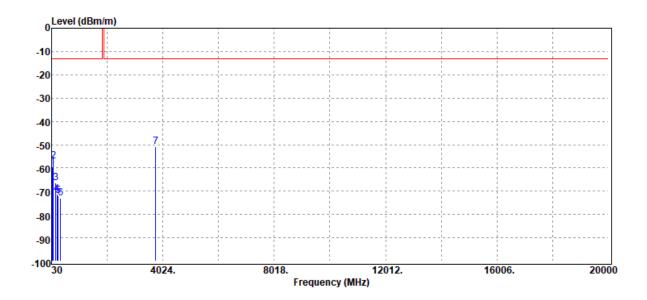
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :5A n2A Test Date :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL

Test Frequency :836.5 MHz_1880 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-59.35	-43.99	-14.61	-0.75	-13.00	-46.35
99.84	-57.12	-50.16	-6.01	-0.95	-13.00	-44.12
183.26	-66.59	-61.61	-3.74	-1.24	-13.00	-53.59
225.94	-71.41	-68.71	-1.30	-1.40	-13.00	-58.41
269.59	-71.80	-68.48	-1.79	-1.53	-13.00	-58.80
348.16	-72.86	-69.47	-1.55	-1.84	-13.00	-59.86
3760.00	-50.86	-57.52	12.40	-5.74	-13.00	-37.86

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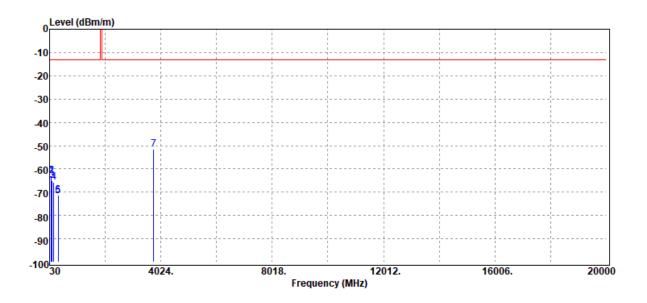
:SAC I Chamber Report Number :ER/2020/80164 Test Site

Operation Mode :5A n2A **Test Date** :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72

EUT Pol :NB Plane :HORIZONTAL Antenna Pol.

Test Frequency :836.5 MHz 1880 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
88.20	-63.12	-56.03	-6.20	-0.89	-13.00	-50.12
100.81	-62.91	-55.76	-6.20	-0.95	-13.00	-49.91
117.30	-64.93	-56.54	-7.34	-1.05	-13.00	-51.93
175.50	-65.62	-59.44	-4.94	-1.24	-13.00	-52.62
337.49	-71.57	-68.04	-1.71	-1.82	-13.00	-58.57
345.25	-71.13	- 67.71	-1.57	-1.85	-13.00	-58.13
3760.00	-51.53	-58.19	12.40	-5.74	-13.00	-38.53

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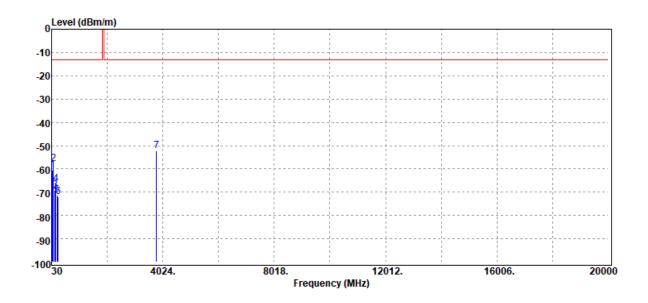
Report Number :ER/2020/80164 **Test Site** :SAC I Chamber

Operation Mode :5A n2A **Test Date** :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72

EUT Pol :NB Plane :VERTICAL Antenna Pol.

Test Frequency :836.5 MHz 1900 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
·		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-60.70	-45.34	-14.61	-0.75	-13.00	-47.70
99.84	-57.86	-50.90	-6.01	-0.95	-13.00	-44.86
153.19	-69.24	-60.70	-7.32	-1.22	-13.00	-56.24
183.26	-66.53	-61.55	-3.74	-1.24	-13.00	-53.53
225.94	-71.32	-68.62	-1.30	-1.40	-13.00	-58.32
272.50	-71.88	-68.58	-1.77	-1.53	-13.00	-58.88
3800.00	-52.34	-59.08	12.40	-5.66	-13.00	-39.34

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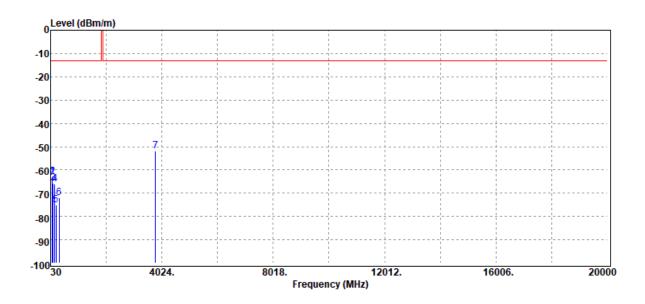
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :5A n2A Test Date :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :HORIZONTAL

Test Frequency :836.5 MHz 1900 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
88.20	-62.82	-55.73	-6.20	-0.89	-13.00	-49.82
100.81	-63.12	-55.97	-6.20	-0.95	-13.00	-50.12
119.24	-65.80	-57.42	-7.32	-1.06	-13.00	-52.80
183.26	-66.00	-61.02	-3.74	-1.24	-13.00	-53.00
228.85	-75.08	-72.29	-1.37	-1.42	-13.00	-62.08
344.28	-71.98	-68.54	-1.59	-1.85	-13.00	-58.98
3800.00	-52.00	-58.74	12.40	-5.66	-13.00	-39.00

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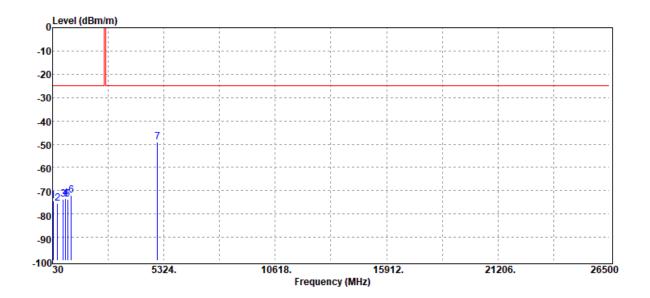
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :5A_n7A Test Date :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :VERTICAL

Test Frequency :836.5 MHz 2510 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-74.52	-59.16	-14.61	-0.75	-25.00	-49.52
272.50	-75.38	-72.08	-1.77	-1.53	-25.00	-50.38
541.19	-73.65	-70.43	-1.26	-1.96	-25.00	-48.65
660.50	-73.36	-69.33	-1.34	-2.69	-25.00	-48.36
752.65	-73.62	-69.02	-1.75	-2.85	-25.00	-48.62
913.67	-71.82	- 67.08	-1.78	-2.96	-25.00	-46.82
5020.00	-49.13	-54.94	12.66	-6.85	-25.00	-24.13

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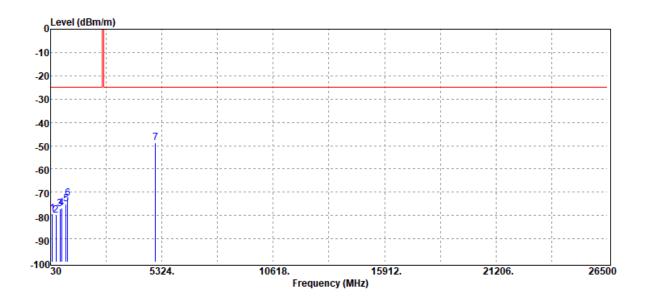
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :5A n7A Test Date :2020-09-21

Test Mode :Tx CH Low Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :HORIZONTAL

Test Frequency :836.5 MHz 2510 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
-		Output Level	Gain	Loss		_
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
120.21	-79.17	-70.76	-7.35	-1.06	-25.00	-54.17
287.05	-79.92	-76.51	-1.81	-1.60	-25.00	-54.92
481.05	-77.06	-73.28	-1.68	-2.10	-25.00	-52.06
565.44	-76.90	-73.21	-1.40	-2.29	-25.00	-51.90
774.96	-74.94	-70.88	-1.84	-2.22	-25.00	-49.94
846.74	-72.76	-68.65	-1.57	-2.54	-25.00	-47.76
5020.00	-48.91	-54.72	12.66	-6.85	-25.00	-23.91

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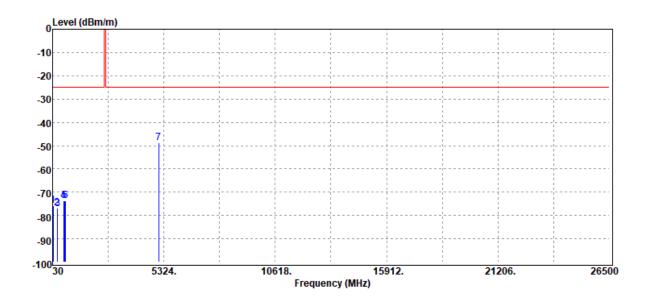
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:SAC I Chamber Report Number :ER/2020/80164 **Test Site**

Operation Mode :5A n7A **Test Date** :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72 **EUT Pol** :NB Plane :VERTICAL Antenna Pol.

Test Frequency :836.5 MHz 2535 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
63.95	-75.61	-60.93	-13.91	-0.77	-25.00	-50.61
246.31	-76.97	-73.75	-1.72	-1.50	-25.00	-51.97
272.50	-77.10	-73.80	-1.77	-1.53	-25.00	-52.10
550.89	-73.84	-70.39	-1.24	-2.21	-25.00	-48.84
604.24	-73.71	-69.68	-1.89	-2.14	-25.00	-48.71
652.74	-73.60	-69.73	-1.33	-2.54	-25.00	-48.60
5070.00	-48.93	-54.69	12.56	-6.80	-25.00	-23.93

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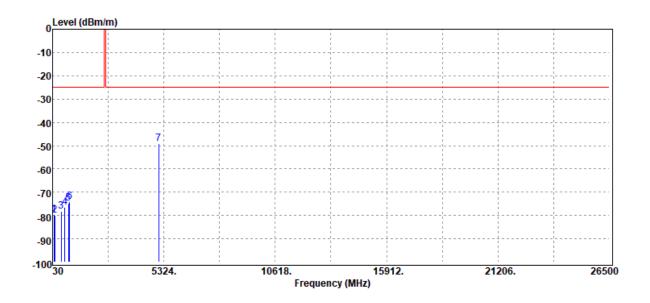
Report Number :ER/2020/80164 Test Site :SAC I Chamber

Operation Mode :5A n7A Test Date :2020-09-21

Test Mode :Tx CH Mid Temp./Humi. :27.3/72

EUT Pol :NB Plane Antenna Pol. :HORIZONTAL

Test Frequency :836.5 MHz 2535 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
•		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
102.75	-79.66	-72.26	-6.44	-0.96	-25.00	-54.66
133.79	-79.90	-71.00	-7.88	-1.02	-25.00	-54.90
435.46	-78.37	-74.48	-1.86	-2.03	-25.00	-53.37
609.09	-76.44	-72.54	-1.91	-1.99	-25.00	-51.44
783.69	-74.74	-70.59	-1.72	-2.43	-25.00	-49.74
838.01	-74.17	-69.56	-1.70	-2.91	-25.00	-49.17
5070.00	-49.14	-54.90	12.56	-6.80	-25.00	-24.14

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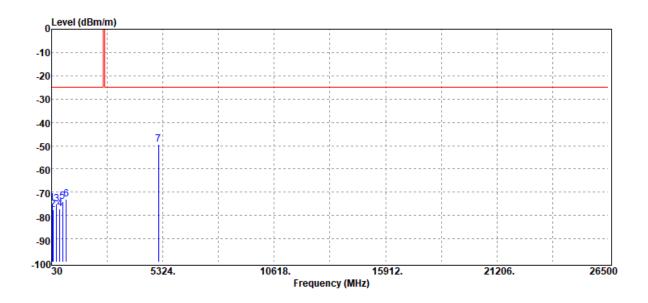
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:SAC I Chamber Report Number :ER/2020/80164 **Test Site**

Operation Mode :5A n7A **Test Date** :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72 **EUT Pol** :NB Plane :VERTICAL Antenna Pol.

Test Frequency :836.5 MHz 2560 MHz Engineer :Neo



Freq.	EIRP/ERP	SG	Antenna	Cable	Limit	Margin
		Output Level	Gain	Loss		
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
61.04	-74.78	-59.42	-14.61	-0.75	-25.00	- 49.78
99.84	-77.53	-70.57	-6.01	-0.95	-25.00	-52.53
272.50	-74.92	-71.62	-1.77	-1.53	-25.00	-49.92
422.85	-77.20	-73.57	-1.52	-2.11	-25.00	-52.20
558.65	-73.89	-70.26	-1.36	-2.27	-25.00	-48.89
720.64	-73.00	-69.14	-1.21	-2.65	-25.00	-48.00
5120.00	-49.34	- 55.07	12.58	-6.85	-25.00	-24.34

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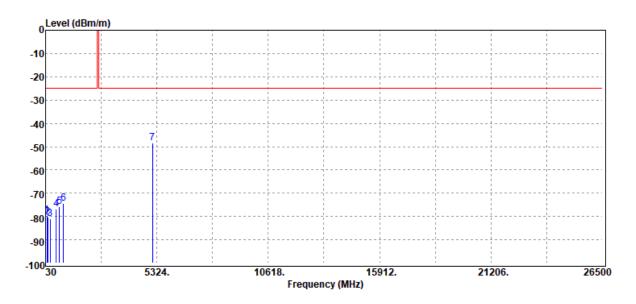
:SAC I Chamber Report Number **Test Site** :ER/2020/80164

Operation Mode :5A n7A **Test Date** :2020-09-21

Test Mode :Tx CH High Temp./Humi. :27.3/72

EUT Pol :NB Plane :HORIZONTAL Antenna Pol.

Test Frequency :836.5 MHz 2560 MHz Engineer :Neo



Freq.	EIRP/ERP	SG Output Level	Antenna Gain	Cable Loss	Limit	Margin
MHz	dBm	dBm	dBi/dBd	dB	dBm	dB
97.90	-79.44	-72.71	-5.79	-0.94	- 25.00	-54.44
143.49	-80.30	-71.32	-7.84	-1.14	-25.00	-55.30
255.04	-80.83	-77.70	-1.60	-1.53	-25.00	-55.83
547.01	-76.96	-73.63	-1.21	-2.12	-25.00	-51.96
682.81	-75.64	-71.94	-1.44	-2.26	-25.00	-50.64
881.66	-74.34	-69.89	-1.45	-3.00	-25.00	-49.34
5120.00	-48.56	-54.29	12.58	-6.85	-25.00	-23.56

~ End of Report ~

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