

## ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II IV PERMISSIVE CHANGE REPORT



**Applicant:** Acer Incorporated  
8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi, New Taipei City  
22181, Taiwan (R.O.C)

**Product Name:** Notebook Computer

**Brand Name:** 

**FCC Model No.:** N20Q10

**IC Model No.:** R722T

**Model Difference:** N/A

**Report Number:** E2/2021/A0058

**FCC ID** HLZ-QCNFA324

**IC:** 1754F-QCNFA324

**Issue Date:** Nov.17,2021

**Date of Test:** Oct.12,2021~Oct.19,2021

**Date of EUT Received:** Oct.08,2021

Approved By Arno Hsieh  
Arno Hsieh

**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 C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.247, ISED RSS-247.

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
E2/2021/A0058	Rev.00	Original.	Nov.17,2021	Viola Su	-

**Note:**

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

### 1.1 Product description

Product Name of Host:	Notebook Computer
Brand Name of Host:	<b>acer</b>
Model No. of FCC Host:	N20Q10
Model No. of IC Host:	R722T
Hardware Version:	N/A
Software Version:	4.0.00172.0
Model No. of BT/WLAN Module:	QCNFA324
Scope:	QCNFA324 INSTALLED IN Notebook Computer
Class II & Class IV Permissive change:	The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host.
EUT Series No.:	N8AZCWW0011362465B7600
Power Supply:	11.55Vdc from Rechargeable Lithium Ion Battery Pack 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter

### 1.2 RF Specification

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + $\pi/4$ DQPSK + 8DPSK
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	$\leq$ 0.4s

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### 1.3 Module Report

Test Lab	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory.
Report Number	RF140808E04-2

### 1.4 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Mode	Main/Aux	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	Wistron NeWeb Corp.	Pico (ZDGB) C Build	Open Mode	Aux	2402~2480	1.08
			Tablet Mode		2402~2480	-0.66

**Note:**

1. Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the open mode is highest gain as the worst case scenarios.
2. Antenna information is provided by the applicant.

### 1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

KDB 558074 D01 v05r02 DSS Meas. Guidance

RSS-247 issue 2 Feb. 2017

RSS-Gen Issue 5, Amendment 2, February 2021

ANSI C63.10:2013

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## 1.6 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 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.

## 1.7 Special Accessories

There is no special accessory used while test was conducted.

## 1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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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

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

### 2.3 Test Procedure

#### 2.3.1 Radiated Emissions

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

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## 2.4 Measurement Results Explanation Example

### 2.4.1 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.

### 2.4.2 For all conducted test items:

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

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## 2.5 Configuration of Tested System

Fig. 2-1 Radiated Setup

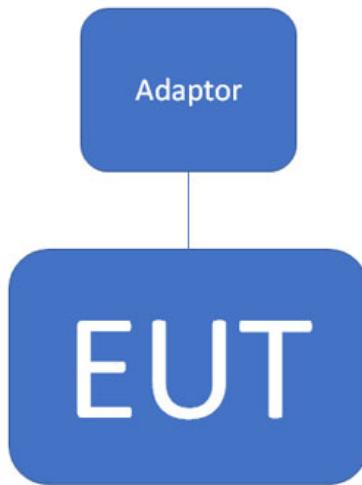


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Version
1.	QRCT	N/A	N/A	N/A	4.0.00161.0
2.	Adapter	Delta	ADP-45HG	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Spurious Emission	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	21	2422 MHz	41	2442 MHz	71	2462 MHz
2	2403 MHz	22	2423 MHz	42	2443 MHz	72	2463 MHz
3	2404 MHz	23	2424 MHz	43	2444 MHz	73	2464 MHz
4	2405 MHz	24	2425 MHz	44	2445 MHz	74	2465 MHz
5	2406 MHz	25	2426 MHz	45	2446 MHz	75	2466 MHz
6	2407 MHz	26	2427 MHz	46	2447 MHz	76	2467 MHz
7	2408 MHz	27	2428 MHz	47	2448 MHz	77	2468 MHz
8	2409 MHz	28	2429 MHz	48	2449 MHz	78	2469 MHz
9	2410 MHz	29	2430 MHz	49	2450 MHz	79	2470 MHz
10	2411 MHz	30	2431 MHz	50	2451 MHz	70	2471 MHz
11	2412 MHz	31	2432 MHz	51	2452 MHz	71	2472 MHz
12	2413 MHz	32	2433 MHz	52	2453 MHz	72	2473 MHz
13	2414 MHz	33	2434 MHz	53	2454 MHz	73	2474 MHz
14	2415 MHz	34	2435 MHz	54	2455 MHz	74	2475 MHz
15	2416 MHz	35	2436 MHz	55	2456 MHz	75	2476 MHz
16	2417 MHz	36	2437 MHz	56	2457 MHz	76	2477 MHz
17	2418 MHz	37	2438 MHz	57	2458 MHz	77	2478 MHz
18	2419 MHz	38	2439 MHz	58	2459 MHz	78	2479 MHz
19	2420 MHz	39	2440 MHz	59	2460 MHz	79	2480 MHz
20	2421 MHz	40	2441 MHz	60	2461 MHz		

### 4.2 The Worst Test Modes and Channel Details

- 1 The EUT has been tested under operating condition.
- 2 Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3 Investigation has been done on all the possible configurations for searching the worst case.

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE
<b>RADIATED EMISSION TEST (ABOVE 1 GHz)</b>				
Bluetooth	0 to 78	0,39,78	GFSK, 8DPSK	DH5, 3DH5

**Note:** The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	2.34	dB
Peak Output Power	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
100 kHz Bandwidth Of Frequency Band Edges	+/-	1.69	dB
Frequency Separation	+/-	1.53	Hz
Number of hopping frequency	+/-	1.53	Hz
Time of Occupancy	+/-	1.53	Hz
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

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

**Note:**

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

### 6.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below. And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

Frequency (MHz)	Field strength (microvolts/meter)	Distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Note:**

1. The lower limit shall apply at the transition frequencies.

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## 6.2 Measurement Equipment Used

### Radiated Emission Test Site: SAC D

EQUIPMENT TYPE	MFR/BRAND	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1341	06/04/2021	06/03/2022
3m Site NSA	SGS	966 chamber D	N/A	07/12/2021	07/11/2022
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022
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	980273	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
High Pass Filter	R&S	F13 HPF 3GHz	RF175	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021

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

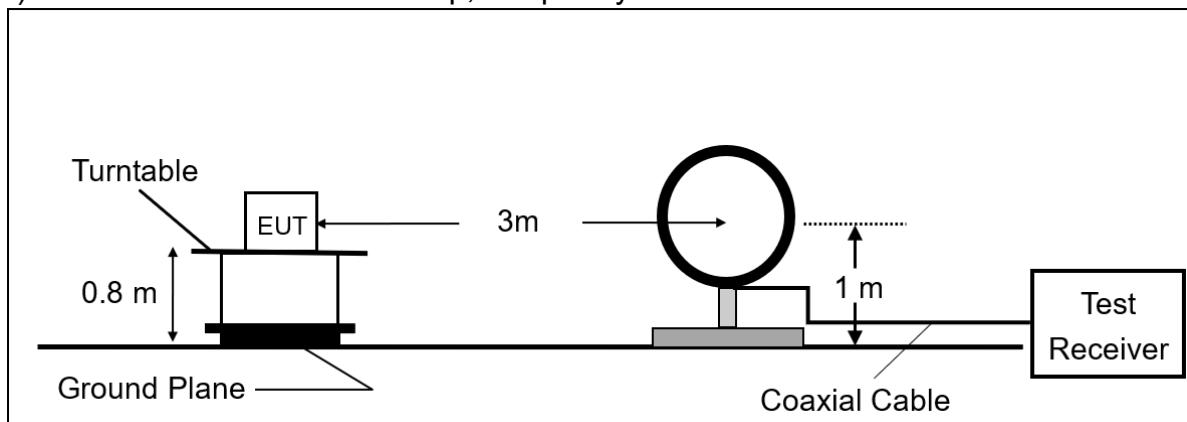
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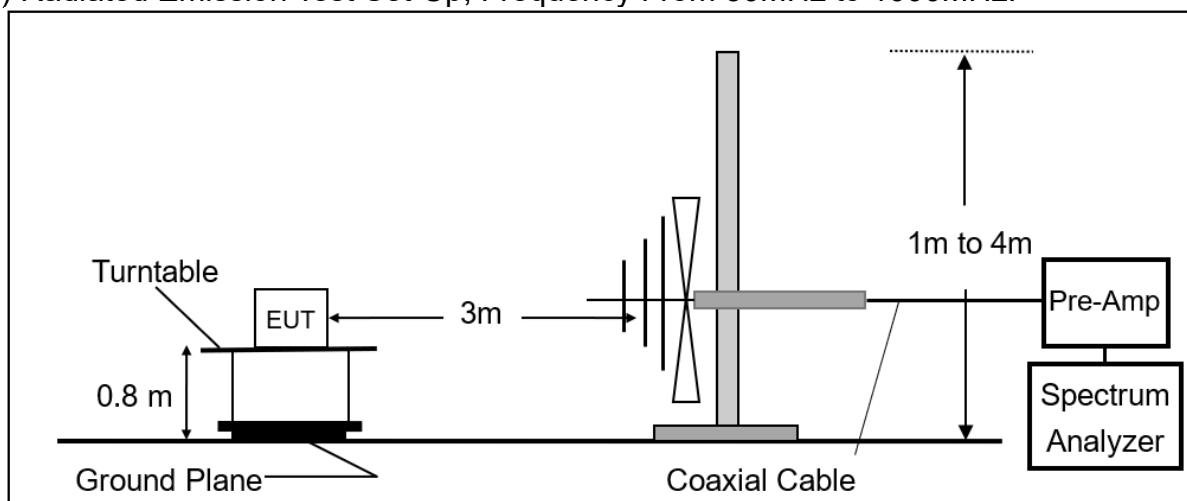
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## 6.3 Test SET-UP

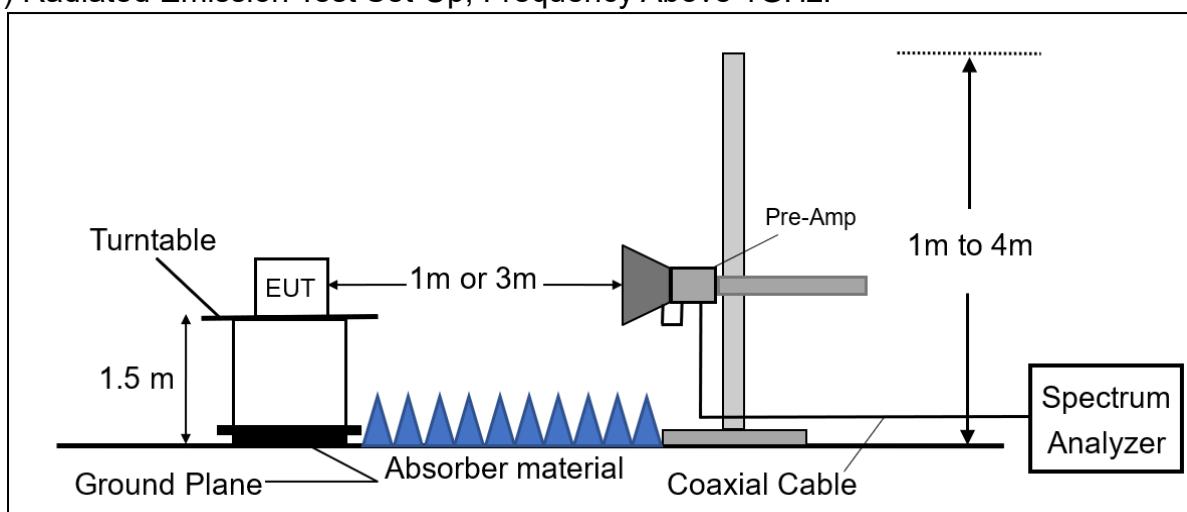
## (A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



## (B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



## (C) Radiated Emission Test Set-Up, Frequency Above 1GHz.



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## 6.4 Measurement Procedure

### 6.4.1 Radiated Emission

1. The testing follows the Measurement Procedure of ANSI C63.10:2013.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
6. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak / AVG Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW  $\geq 1/T$  (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. When 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.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode.
12. Repeat above procedures until all default test channel measured were complete.

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## 6.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where  $FS$  = Field Strength

$CL$  = Cable Attenuation Factor (Cable Loss)

$RA$  = Reading Amplitude

$AG$  = Amplifier Gain

$AF$  = Antenna Factor

The limit of the emission level is expressed in  $dB\mu V/m$ , which converts  $20 * \log(\mu V/m)$

Actual  $FS(dB\mu V/m)$  = SPA. Reading level( $dB\mu V$ ) + Factor( $dB$ )

Factor( $dB$ ) = Antenna Factor( $dB\mu V/m$ ) + Cable Loss( $dB$ ) - Pre\_Amplifier Gain( $dB$ )

## 6.6 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

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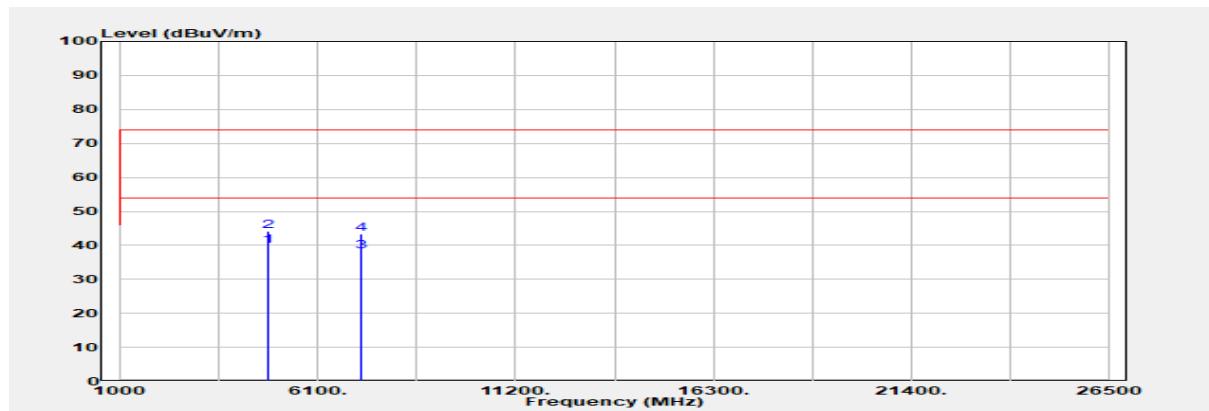
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## 6.7 Measurement Result:

### 6.7.1 Radiated Spurious Emission above 1 GHz:

Report Number :E2-2021-A0058      Test Site :SAC D  
 Operation Mode :BT BR      Test Date :2021-10-19  
 Test Frequency :2402 MHz      Temp./Humi. :22/70  
 Test Mode :TX CH LOW      Antenna Pol. :Vertical  
 EUT Pol :NB Plane      Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	42.95	-3.04	39.91	54.00	-14.09
4804.000	Peak	47.34	-3.04	44.30	74.00	-29.70
7206.000	Average	35.31	2.98	38.29	54.00	-15.71
7206.000	Peak	40.44	2.98	43.42	74.00	-30.58

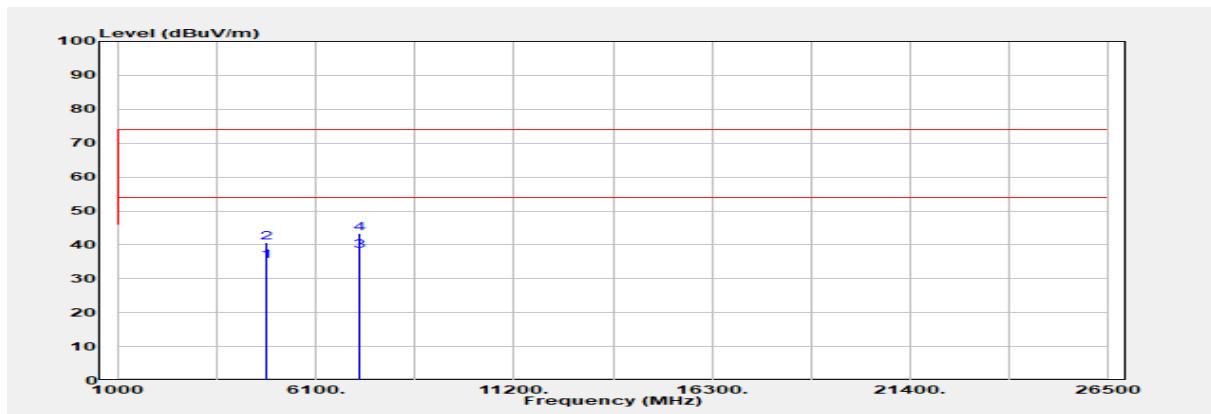
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Report Number :E2-2021-A0058  
Operation Mode :BT BR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Horizontal  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	38.23	-3.04	35.18	54.00	-18.82
4804.000	Peak	43.82	-3.04	40.78	74.00	-33.22
7206.000	Average	35.33	2.98	38.31	54.00	-15.69
7206.000	Peak	40.34	2.98	43.33	74.00	-30.67

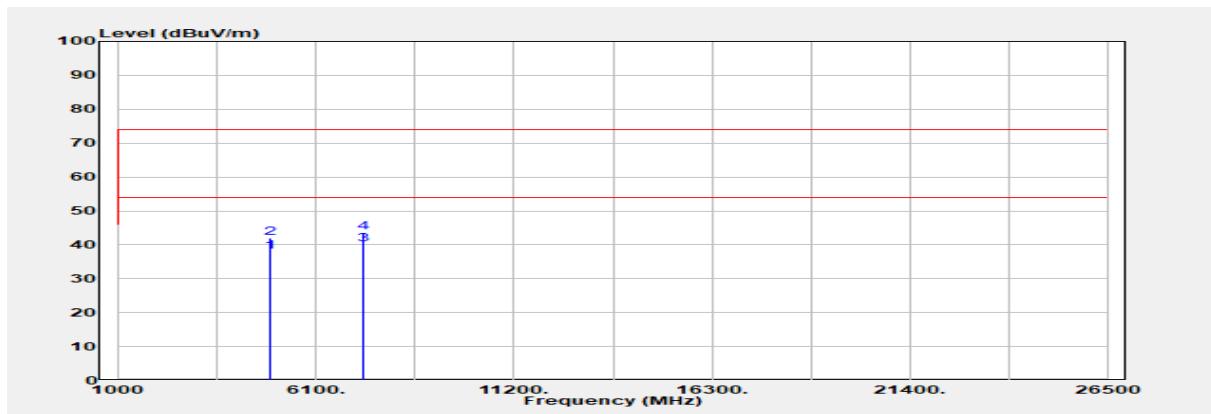
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Report Number :E2-2021-A0058  
Operation Mode :BT BR  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Vertical  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	41.00	-3.06	37.95	54.00	-16.05
4882.000	Peak	44.96	-3.06	41.90	74.00	-32.10
7323.000	Average	36.76	3.37	40.13	54.00	-13.87
7323.000	Peak	40.16	3.37	43.53	74.00	-30.47

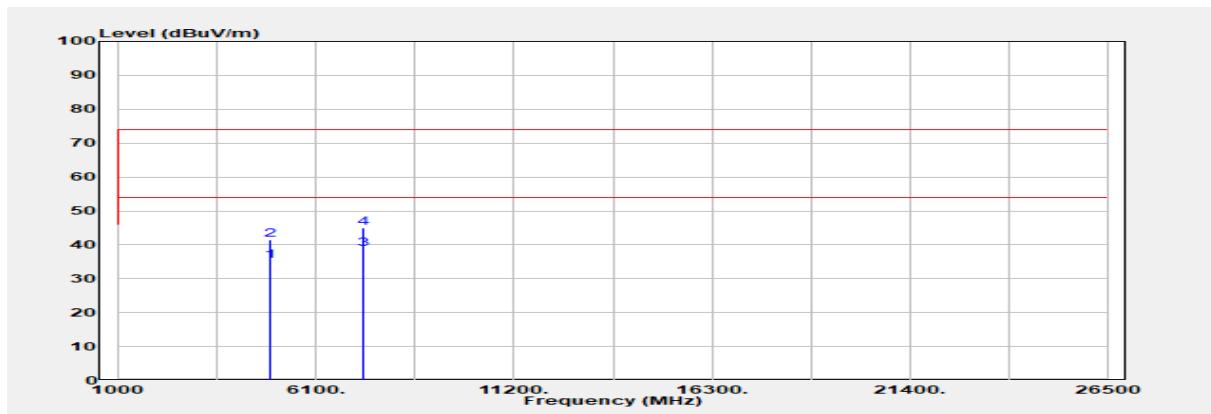
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Report Number :E2-2021-A0058  
Operation Mode :BT BR  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Horizontal  
Engineer :Jack tseng



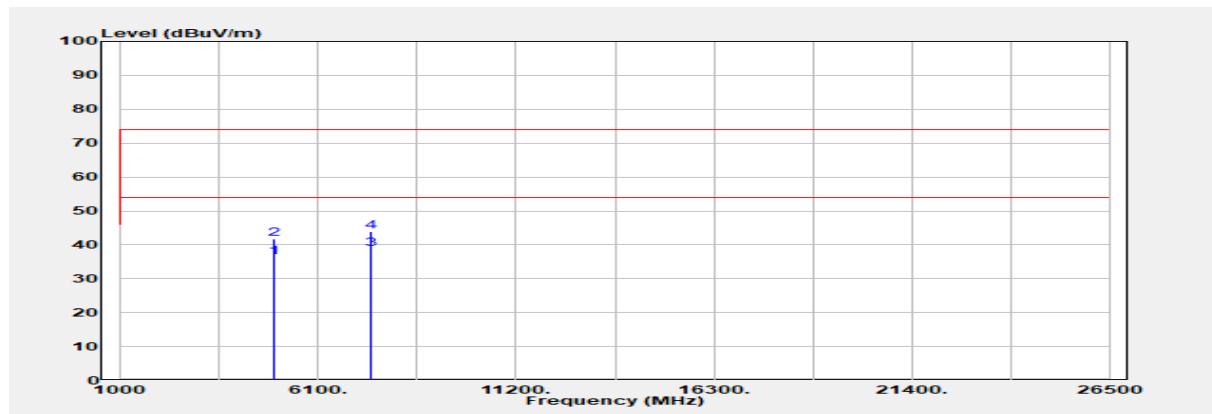
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	38.22	-3.06	35.16	54.00	-18.84
4882.000	Peak	44.57	-3.06	41.51	74.00	-32.49
7323.000	Average	35.38	3.37	38.75	54.00	-15.25
7323.000	Peak	41.61	3.37	44.98	74.00	-29.02

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Report Number :E2-2021-A0058 Test Site :SAC D  
 Operation Mode :BT BR Test Date :2021-10-19  
 Test Frequency :2480 MHz Temp./Humi. :22/70  
 Test Mode :TX CH HIGH Antenna Pol. :Vertical  
 EUT Pol :NB Plane Engineer :Jack tseng



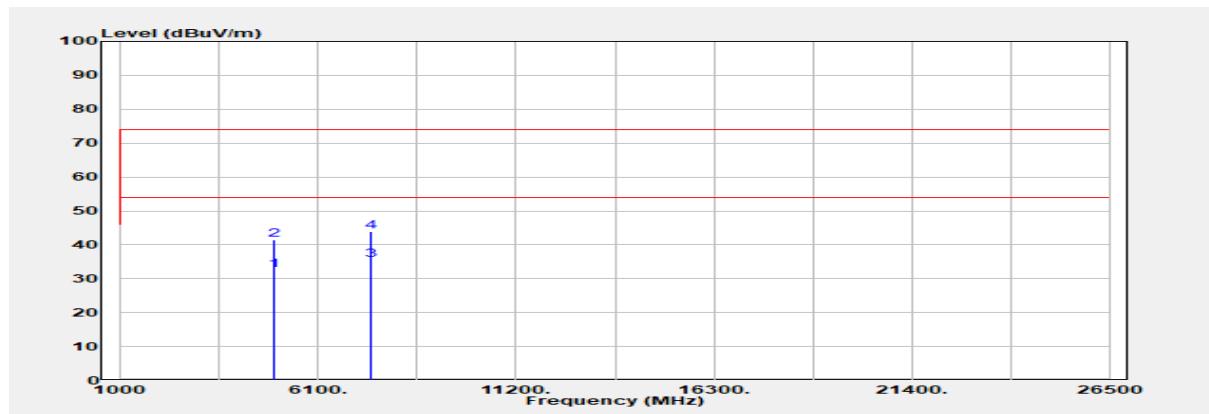
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	39.29	-2.87	36.41	54.00	-17.59
4960.000	Peak	44.65	-2.87	41.77	74.00	-32.23
7440.000	Average	34.96	3.85	38.81	54.00	-15.19
7440.000	Peak	40.10	3.85	43.95	74.00	-30.05

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Report Number :E2-2021-A0058 Test Site :SAC D  
 Operation Mode :BT BR Test Date :2021-10-19  
 Test Frequency :2480 MHz Temp./Humi. :22/70  
 Test Mode :TX CH HIGH Antenna Pol. :Horizontal  
 EUT Pol :NB Plane Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	35.43	-2.87	32.55	54.00	-21.45
4960.000	Peak	44.41	-2.87	41.53	74.00	-32.47
7440.000	Average	31.68	3.85	35.53	54.00	-18.47
7440.000	Peak	40.01	3.85	43.86	74.00	-30.14

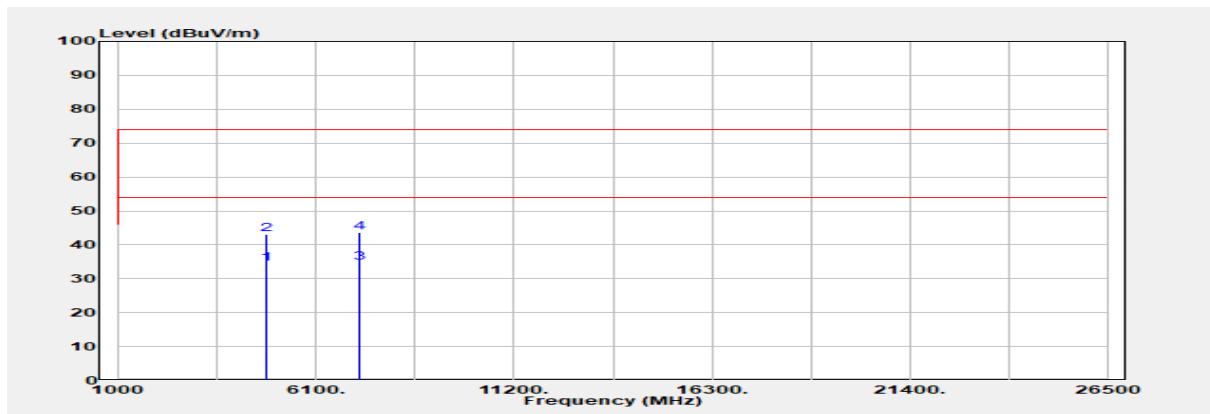
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Report Number :E2-2021-A0058  
Operation Mode :BT EDR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Vertical  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	37.43	-3.04	34.39	54.00	-19.61
4804.000	Peak	46.05	-3.04	43.01	74.00	-30.99
7206.000	Average	31.66	2.98	34.64	54.00	-19.36
7206.000	Peak	40.73	2.98	43.72	74.00	-30.28

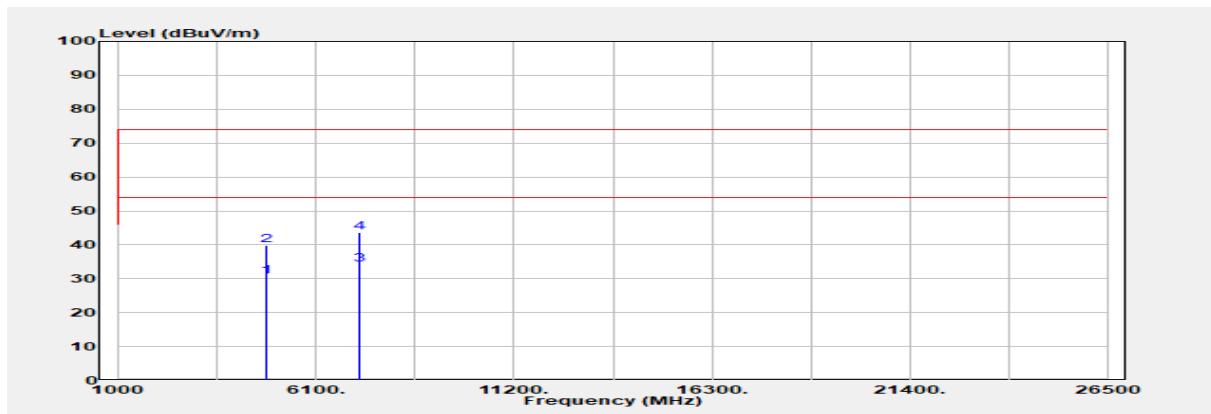
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Report Number :E2-2021-A0058  
Operation Mode :BT EDR  
Test Frequency :2402 MHz  
Test Mode :TX CH LOW  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Horizontal  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4804.000	Average	33.78	-3.04	30.74	54.00	-23.26
4804.000	Peak	42.82	-3.04	39.78	74.00	-34.22
7206.000	Average	31.19	2.98	34.17	54.00	-19.83
7206.000	Peak	40.68	2.98	43.66	74.00	-30.34

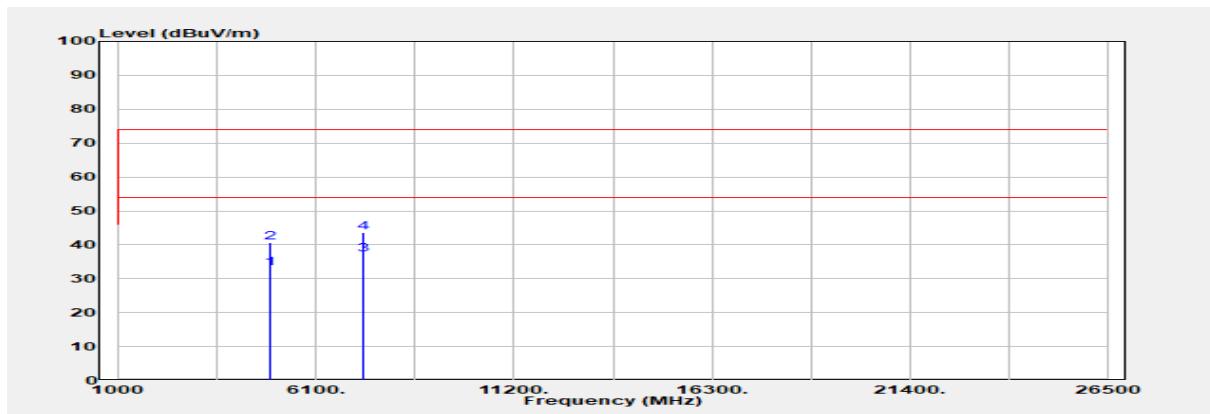
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Report Number :E2-2021-A0058  
Operation Mode :BT EDR  
Test Frequency :2441 MHz  
Test Mode :TX CH MID  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Vertical  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	36.25	-3.06	33.19	54.00	-20.81
4882.000	Peak	43.58	-3.06	40.52	74.00	-33.48
7323.000	Average	33.66	3.37	37.03	54.00	-16.97
7323.000	Peak	40.17	3.37	43.54	74.00	-30.46

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Report Number :E2-2021-A0058 Test Site :SAC D  
 Operation Mode :BT EDR Test Date :2021-10-19  
 Test Frequency :2441 MHz Temp./Humi. :22/70  
 Test Mode :TX CH MID Antenna Pol. :Horizontal  
 EUT Pol :NB Plane Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4882.000	Average	34.16	-3.06	31.10	54.00	-22.90
4882.000	Peak	42.78	-3.06	39.72	74.00	-34.28
7323.000	Average	31.88	3.37	35.25	54.00	-18.75
7323.000	Peak	39.76	3.37	43.13	74.00	-30.87

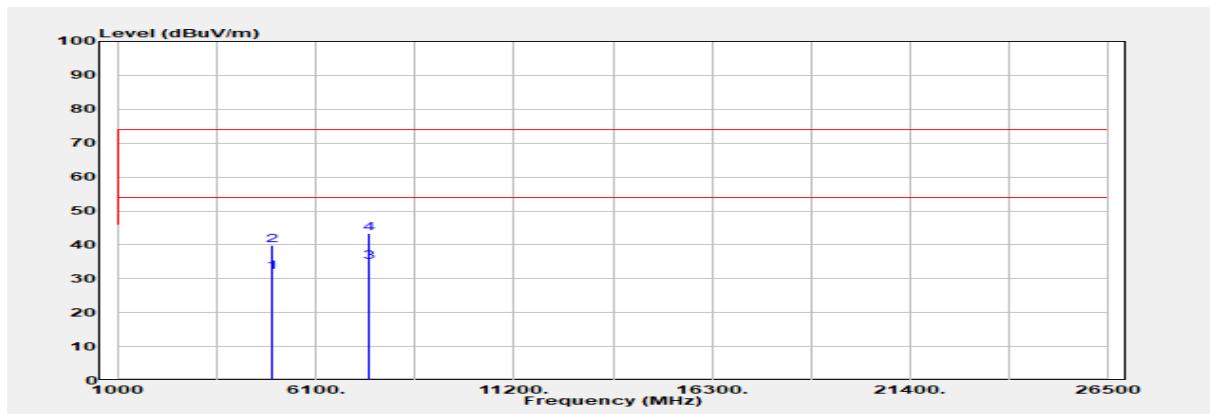
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Report Number :E2-2021-A0058  
Operation Mode :BT EDR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Vertical  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	34.88	-2.87	32.01	54.00	-21.99
4960.000	Peak	42.71	-2.87	39.84	74.00	-34.16
7440.000	Average	31.23	3.85	35.08	54.00	-18.92
7440.000	Peak	39.63	3.85	43.47	74.00	-30.53

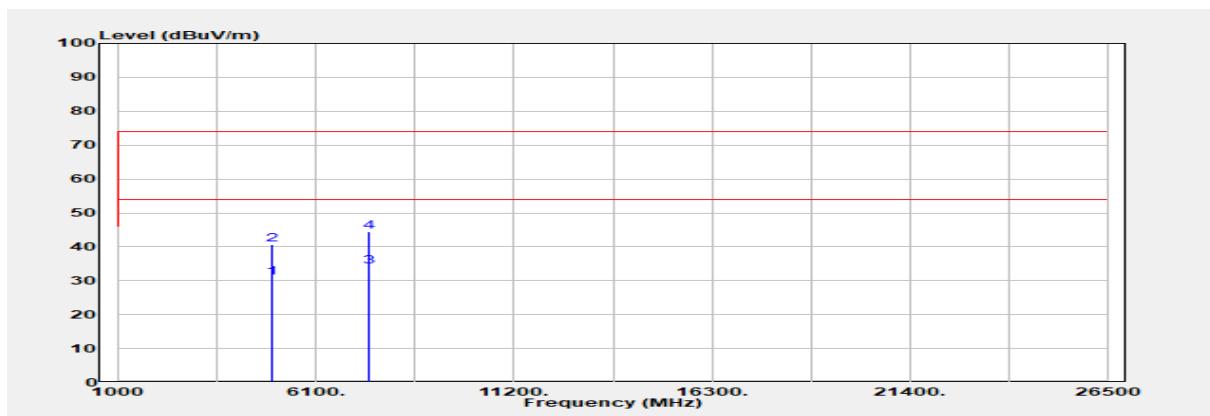
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Report Number :E2-2021-A0058  
Operation Mode :BT EDR  
Test Frequency :2480 MHz  
Test Mode :TX CH HIGH  
EUT Pol :NB Plane

Test Site :SAC D  
Test Date :2021-10-19  
Temp./Humi. :22/70  
Antenna Pol. :Horizontal  
Engineer :Jack tseng



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual FS dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Margin dB
4960.000	Average	33.83	-2.87	30.96	54.00	-23.04
4960.000	Peak	43.51	-2.87	40.63	74.00	-33.37
7440.000	Average	30.28	3.85	34.13	54.00	-19.87
7440.000	Peak	40.69	3.85	44.54	74.00	-29.46

**~ End of Report ~**

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