

Page: 1 of 32

ELECTROMAGNETIC EMISSIONS COMPLIANCE CLASS II & CLASS IV PERMISSIVE CHANGE REPORT





Applicant: MediaTek Inc.

No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City

30078 Taiwan

Product Name: 2TX 11ax (WiFi6)+BLE Combo Card

Brand Name: MediaTek MT7921 Model No.:

Model Difference: N/A

Report Number: E2/2021/A0066

FCC ID RAS-MT7921

IC: 7542A-MT7921

January 10, 2022 Issue Date:

Date of Test: October 13, 2021 ~ October 15, 2021

Date of EUT Received: October 13, 2021

Approved By

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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Page: 2 of 32

Revision History					
Report Number Revision Description Issue Date Revised By Rem				Remark	
E2/2021/A0066	00	Original.	January 10, 2022	Karen Huang	-

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Page: 3 of 32

Table of Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	6
3	SUMMARY OF TEST RESULTS	9
4	DESCRIPTION OF TEST MODES	10
5	MEASUREMENT UNCERTAINTY	12
6	PEAK OUTPUT POWER MEASUREMENT	13
7	RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT	16

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Page: 4 of 32

GENERAL INFORMATION

1.1 **Product description of host:**

Product Name:	Portable Computer
Brand Name:	DELL
Model No.:	P152G
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	7193004100004
Power Supply:	15Vdc

1.2 **RF Specification**

Radio Technology:	BT BR+EDR
Channel number:	79 channels
Modulation type:	GFSK + π/4DQPSK + 8DPSK
Transmit Power:	11.75 dBm
Frequency Range:	2.402GHz – 2.480GHz

1.3 **Antenna Designation**

TOP / BASE Antenna	Antenna Type	Supplier	Main / Aux	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)	Worst Antenna Gain
ТОР	PIFA	AWAN	Aux	AYP6Y-200044 (DC33002N12L)	2.4GHz	0.37	
TOP	PIFA	Hong Bo Co., Ltd.	Aux	DC33002N52L (260-24392)	2.4GHz	1.22	
BASE	PIFA	AWAN	Aux	AYP6Y-100257 (DC33002N11L)	2.4GHz	1.56	V
BASE	PIFA	Hong Bo Co., Ltd.	Aux	260-24391 (DC33002N51L)	2.4GHz	1.55	

Note:

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

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Page: 5 of 32

1.4 **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

1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		
		Conducted 4	_	TW3702
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.	No 2 Kaii 4at Dd. Cuigh an Diatriat	Conduction C		
(TAF code 3702)		SAC C		
(1741 COUC 5702)		SAC D		
		SAC G		
		Conducted A		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028	
	ladydair City, Taiwair 555	Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

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

1.6 **Special Accessories**

There is no special accessory used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

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Page: 6 of 32

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 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.2 **Radiated Emissions**

The EUT is a 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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Page: 7 of 32

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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Page: 8 of 32

2.5 **Configuration of Tested System**



Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1	N/A					

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Page: 9 of 32

3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§15.247(b)(1)	RSS-247 §5.4 b	Peak Output Power	Compliant
§15.247(d) §15.209	RSS-247 §5.5 RSS-Gen §8.9	Radiated Spurious Emission	Compliant

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Page: 10 of 32

DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

79 channels are provided for Bluetooth

	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		

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Page: 11 of 32

4.2 The Worst Test Modes and Channel Details

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

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	PACKET TYPE		
RADIATED EMISSION TEST (ABOVE 1 GHz)						
Bluetooth	0 to 78	0,39,78	GFSK/8-DPSK	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.

ANTNNA PORT CONDUCTED TEST						
MODE	AVAILABLE	TESTED	MODULATION	PACKET		
IVIODE	CHANNEL	CHANNEL	WODULATION	TYPE		
	Peak Output Power					
Bluetooth	0 to 78	0,39,78	GFSK	DH5		
Diuetootii	0 to 78	0,39,78	8-DPSK	3DH5		

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Page: 12 of 32

MEASUREMENT UNCERTAINTY

Test Items	l	Jncertair	nty
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								
	+/-	2.64	dB	9kHz~30MHz				
Polarization: Vertical	+/-	4.93	dB	30MHz - 1000MHz				
	+/-	4.81	dB	1GHz - 18GHz				
	+/-	4.52	dB	18GHz - 40GHz				
	+/-	2.64	dB	9kHz~30MHz				
Polarization: Horizontal	+/-	4.45	dB	30MHz - 1000MHz				
Polarization: Horizontal	+/-	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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Page: 13 of 32

PEAK OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

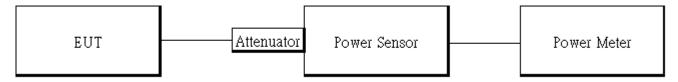
For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels. The Limit: 1Watt. For all other frequency hopping systems in the 2400 - 2483.5MHz band: The Limit: 0.125 Watts. The power limit for 1Mbps is 1watt, and 2Mbps, 3Mbps and AFH mode are 0.125 watts.

The e.i.r.p. shall not exceed 4 W.

6.2 **Measurement Equipment Used**

Conducted Emission Test Site: Conducted G										
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.					
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071570	06/01/2021	05/31/2022					
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022					
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022					
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022					
Attenuator	Marvelous	MVE2213- 10	RF06	11/19/2020	11/18/2021					
Attenuator	Marvelous	WATT- 218FS-10	RF18	11/19/2020	11/18/2021					
Attenuator	Marvelous	WATT- 218FS-10	RF23	11/19/2020	11/18/2021					
DC Block	PASTERNACK	PE8210	RF154	11/19/2020	11/18/2021					

6.3 Test Set-up:



6.4 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows ANSI C63.10 Measurement Guidelines.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter or spectrum. (Max Hold, Detector = Peak, RBW >= 20dB bandwidth)
- 4. Record the max. reading.
- 5. Repeat above procedures until all default test channel is completed.

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Page: 14 of 32

6.5 Peak & Average Power Measurement Result

1M BR mode (Peak):

	. ,				
СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	12	11.60	14.454	1000
Mid	2441	12	11.57	14.355	1000
High	2480	12	11.75	14.962	1000

1M BR mode (Average)

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	12	11.33	13.572	1000
Mid	2441	12	11.25	13.324	1000
High	2480	12	11.35	13.634	1000

3M EDR mode (Peak):

СН	Freq. (MHz)	Power set	Peak Output Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	12	11.69	14.757	125
Mid	2441	11	11.28	13.428	125
High	2480	12	11.61	14.488	125

NOTE: cable loss as 11.1dB that offsets in the power meter

3M EDR mode (Average):

СН	Freq. (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Output Power (mW)	Limit (mW)
Low	2402	12	8.39	6.897	125
Mid	2441	11	8.26	6.693	125
High	2480	12	8.46	7.009	125

*Note: Max. Output include tune up tolerance Power measured by using average detector.

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Page: 15 of 32

6.6 **EIRP Measurement Result**

1M BR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	12	11.33	1.56	19.437	4000
Mid	2441	12	11.25	1.56	19.083	4000
High	2480	12	11.35	1.56	19.527	4000

3M EDR mode EIRP

Channel	Frequency (MHz)	Power set	Max. Avg.Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	Limit (mW)
Low	2402	12	8.39	1.56	9.877	4000
Mid	2441	11	8.26	1.56	9.586	4000
High	2480	12	8.46	1.56	10.038	4000

^{*} Note: EIRP = Average Power + Gain

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Page: 16 of 32

RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

7.1 **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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Page: 17 of 32

7.2 Measurement Equipment Used

Radiated Emission Test Site: SAC G								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.			
Broadband Antenna	SCHWAZBECK	VULB 9168	1206	02/22/2021	02/21/2022			
Horn Antenna	Schwarzbeck	BBHA9170	185	08/06/2021	08/05/2022			
Horn Antenna	Schwarzbeck	DRH18-E	210105A18E	04/09/2021	04/08/2022			
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022			
3m Site NSA	SGS	966 chamber G	N/A	03/30/2021	03/29/2022			
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120200	03/22/2021	03/21/2022			
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R			
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2021	03/14/2022			
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2021	03/14/2022			
Attenuator	Marvelous	MVE2213-30	RF04	11/19/2020	11/18/2021			
Highpass Filter	WI	WHKX10-2624- 3200-1800-80SS	1	05/10/2021	05/09/2022			
Highpass Filter	WI	WHKX10-6090- 7000-17000-80SS	1	05/10/2021	05/09/2022			
Highpass Filter	WI	WHKX10-1066- 1300-1500-80SS	18	05/10/2021	05/09/2022			
Coaxial Cable	EMC Instruments	EMCCFD400-NM- NM-8000-5000- 2000	210216 \ 210217 \ 210218	03/15/2021	03/14/2022			
Coaxial Cable	EMC Instruments	EMC104-SM-SM- 8000-5000-5000	210219 \ 210220 \ 210221	03/15/2021	03/14/2022			
Coaxial Cable	EMC Instruments	EMC105-NM-NM- 5000-15000	210224 \ 210306	03/15/2021	03/14/2022			

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

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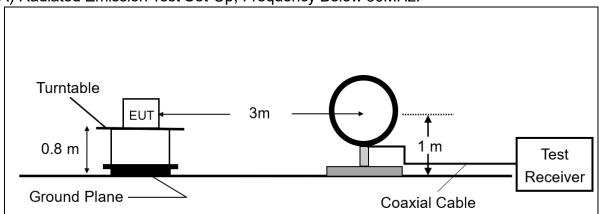
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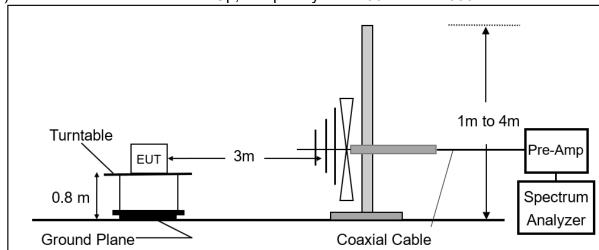
Page: 18 of 32

7.3 **Test SET-UP**

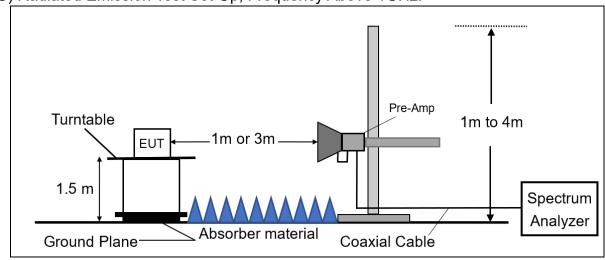
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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Page: 19 of 32

7.4 **Measurement Procedure**

7.4.1 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
- 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 Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 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, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel measured were complete.

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Page: 20 of 32

7.5 **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 dBuV/m, which converts 20*log(uV/m)

Actual $FS(dB\mu V/m) = SPA$. Reading level(dB μV) + Factor(dB) $Factor(dB) = Antenna\ Factor(dB\mu V/m) + Cable\ Loss(dB) - Pre_Amplifier\ Gain(dB)$

7.6 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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Page: 21 of 32

7.7 **Measurement Result:**

Radiated Spurious Emission

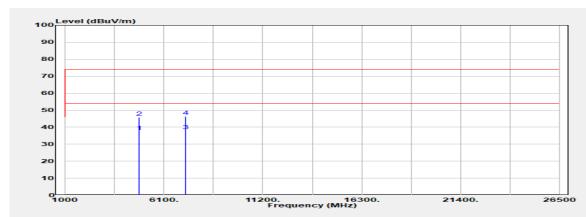
Report Number **Test Site** :SAC G :E2/2021/A0066

Operation Mode :BT BR Test Date :2021-10-15

Test Frequency :2402 MHz Temp./Humi. :23.2/68

Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4804.000	Average	34.15	3.14	37.28	54.00	-16.72
4804.000	Peak	42.66	3.14	45.80	74.00	-28.20
7206.000	Average	30.86	7.22	38.07	54.00	-15.93
7206.000	Peak	39.15	7.22	46.36	74.00	-27.64

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Page: 22 of 32

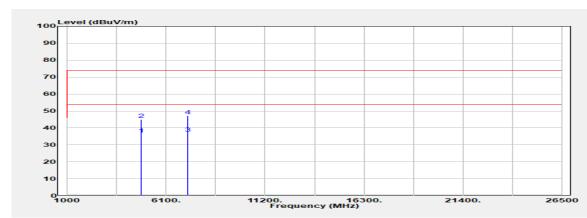
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT BR **Test Date** :2021-10-15

Test Frequency :2402 MHz Temp./Humi. :23.2/68

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4804.000	Average	33.13	3.14	36.27	54.00	-17.73
4804.000	Peak	41.93	3.14	45.06	74.00	-28.94
7206.000	Average	29.52	7.22	36.74	54.00	-17.26
7206.000	Peak	39.92	7.22	47.13	74.00	-26.87

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Page: 23 of 32

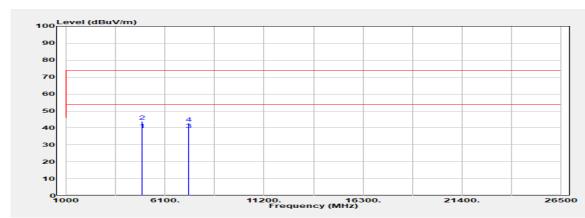
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT BR **Test Date** :2021-10-15

Test Frequency :2441 MHz Temp./Humi. :23.2/68

Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4882.000	Average	35.73	3.31	39.05	54.00	-14.95
4882.000	Peak	40.64	3.31	43.95	74.00	-30.05
7323.000	Average	31.35	7.67	39.02	54.00	-14.98
7323.000	Peak	35.12	7.67	42.79	74.00	-31.21

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Page: 24 of 32

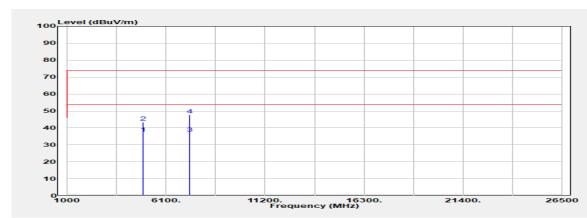
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT BR **Test Date** :2021-10-15

Test Frequency :2441 MHz Temp./Humi. :23.2/68

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4882.000	Average	33.42	3.31	36.73	54.00	-17.27
4882.000	Peak	39.93	3.31	43.24	74.00	-30.76
7323.000	Average	29.12	7.67	36.79	54.00	-17.21
7323.000	Peak	40.11	7.67	47.78	74.00	-26.22

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Page: 25 of 32

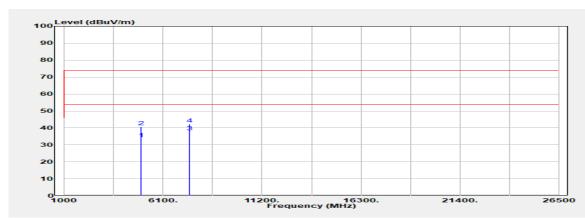
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT BR **Test Date** :2021-10-15

Test Frequency :2480 MHz Temp./Humi. :23.2/68

Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.000	Average	30.22	3.42	33.64	54.00	-20.37
4960.000	Peak	37.29	3.42	40.71	74.00	-33.29
7440.000	Average	29.51	8.11	37.62	54.00	-16.38
7440.000	Peak	34.07	8.11	42.18	74.00	-31.82

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Page: 26 of 32

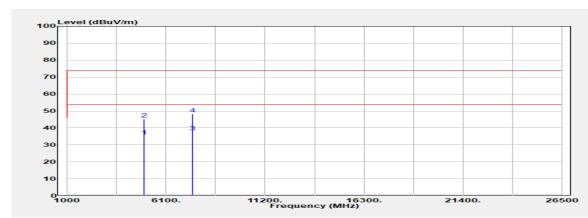
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT BR **Test Date** :2021-10-15

Test Frequency :2480 MHz Temp./Humi. :23.2/68

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4960.000	Average	31.84	3.42	35.26	54.00	-18.74
4960.000	Peak	41.77	3.42	45.19	74.00	-28.81
7440.000	Average	29.60	8.11	37.71	54.00	-16.29
7440.000	Peak	40.08	8.11	48.19	74.00	-25.81

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Page: 27 of 32

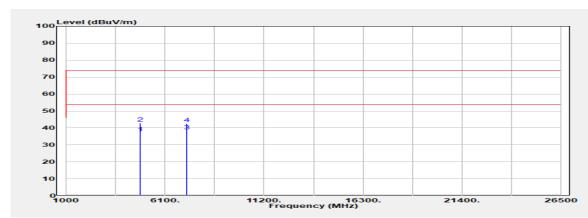
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT EDR **Test Date** :2021-10-15

Test Frequency :2402 MHz Temp./Humi. :23.7/66

Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
4804.000	Average	34.12	3.14	37.25	54.00	-16.75
4804.000	Peak	39.63	3.14	42.77	74.00	-31.23
7206.000	Average	30.95	7.22	38.16	54.00	-15.84
7206.000	Peak	35.33	7.22	42.55	74.00	-31.45

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Page: 28 of 32

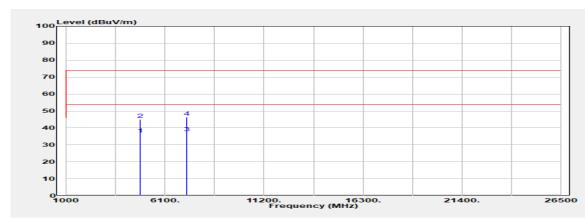
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT EDR **Test Date** :2021-10-15

Test Frequency :2402 MHz Temp./Humi. :23.7/66

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4804.000	Average	33.20	3.14	36.34	54.00	-17.66
4804.000	Peak	41.71	3.14	44.85	74.00	-29.15
7206.000	Average	29.85	7.22	37.07	54.00	-16.93
7206.000	Peak	39.06	7.22	46.28	74.00	-27.72

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Page: 29 of 32

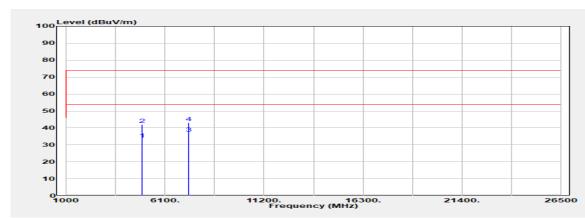
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT EDR **Test Date** :2021-10-15

Test Frequency :2441 MHz Temp./Humi. :23.7/66

Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBμV/m	dB
4882.000	Average	30.15	3.31	33.47	54.00	-20.53
4882.000	Peak	38.57	3.31	41.89	74.00	-32.11
7323.000	Average	29.15	7.67	36.81	54.00	-17.19
7323.000	Peak	35.31	7.67	42.98	74.00	-31.02

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Page: 30 of 32

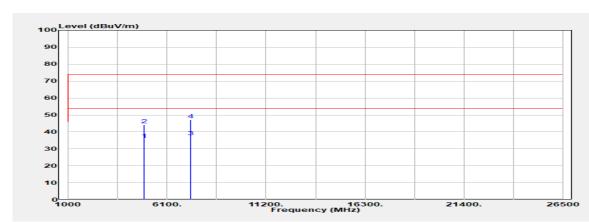
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT EDR **Test Date** :2021-10-15

Test Frequency :2441 MHz Temp./Humi. :23.7/66

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
4882.000	Average	32.06	3.31	35.38	54.00	-18.62
4882.000	Peak	40.87	3.31	44.19	74.00	-29.81
7323.000	Average	29.32	7.67	36.99	54.00	-17.01
7323.000	Peak	39.44	7.67	47.11	74.00	-26.89

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Page: 31 of 32

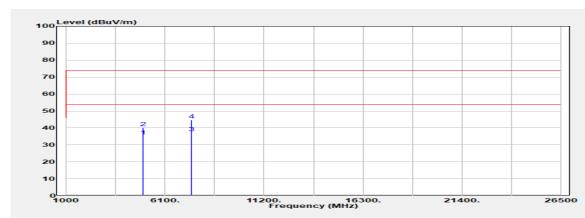
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT EDR **Test Date** :2021-10-15

Test Frequency :2480 MHz Temp./Humi. :23.7/66

Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
4960.000	Average	31.84	3.42	35.26	54.00	-18.74
4960.000	Peak	36.75	3.42	40.17	74.00	-33.83
7440.000	Average	29.01	8.11	37.12	54.00	-16.88
7440.000	Peak	36.56	8.11	44.67	74.00	-29.33

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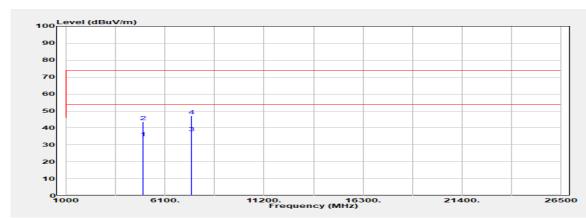
Report Number :E2/2021/A0066 **Test Site** :SAC G

Operation Mode :BT EDR **Test Date** :2021-10-15

Test Frequency :2480 MHz Temp./Humi. :23.7/66

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :NB Plane Engineer :Jason Yeh



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBµV/m	dBµV/m	dB
						_
4960.000	Average	30.82	3.42	34.24	54.00	-19.76
4960.000	Peak	40.22	3.42	43.64	74.00	-30.36
7440.000	Average	29.01	8.11	37.12	54.00	-16.88
7440.000	Peak	38.99	8.11	47.10	74.00	-26.90

~ End of Report ~

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