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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





Applicant: Peloton Interactive Inc.

125 W 25th Street, 11 FL, New York, NY, 10001, USA

Peloton Console **Product Name:**

Brand Name: Peloton

Model No.: PLTN-RB1VQ-2

Model Difference: N/A

Report Number: E2/2021/70053

FCC ID 2AA3N-RB1VQ2

IC: 21377-RB1VQ2

Issue Date: August 27, 2021

Date of Test: July 26, 2021 ~ August 25, 2021

Date of EUT Received: July 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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Revision History					
Report Number	Revision	Description	Issue Date	Revised By	
E2/2021/70053	00	Original	August 27, 2021	Yuri Tsai	

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GENERAL INFORMATION 1

1.1 **Product Description**

Product Name:	Peloton Console
Brand Name:	Peloton
Model No.:	PLTN-RB1VQ-2
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	Conducted: QAPLBK2104190030, Radiated: QAPLBK2104190019
Power Supply:	12Vdc from power cord

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	8.56dBm

1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PIFA	ACON	APP8P-100003	2402-2480	1.58

Note: Antenna information is provided by the applicant.

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 RSS-247 issue 2 Feb. 2017 RSS-Gen Issue 5 Feb. 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		TW3702
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C		
(TAF code 3702)		SAC C		
(1A1 code 3702)		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	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 are no special accessories used while test was conducted.

1.7 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 Conducted Emissions

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 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.

2.3.3 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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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*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.

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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Test Configuration

Fig. 2-1 Conducted (Antenna Port) Emission Configuration

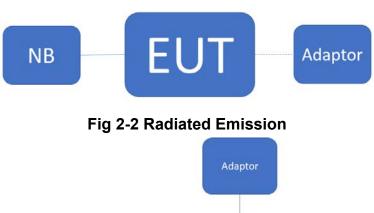
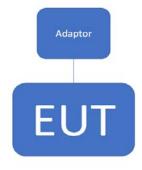




Fig 2-3 Conduction (AC Power Line) Radiated Emission



2.6 Control Unit(s)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
1	Bluetooth Test Software	N/A	N/A	N/A
2	Notebook	Lenovo	L440	P0000367

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SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	RSS-247 §5.4 d	Peak Output Power	Compliant
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant
§15.247(d) §15.205 §15.209	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	RSS-247 §5.2 b	Peak Power Density	Compliant
§15.203 §15.247(b)	N/A	Antenna Requirement	Compliant



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DESCRIPTION OF TEST MODES

Operating Frequencies

-	-				
ITEM	FREQUENCY	ITEM	FREQUENCY	ITEM	FREQUENCY
1	2402 MHz	15	2430 MHz	29	2458 MHz
2	2404 MHz	16	2432 MHz	30	2460 MHz
3	2406 MHz	17	2434 MHz	31	2462 MHz
4	2408 MHz	18	2436 MHz	32	2464 MHz
5	2410 MHz	19	2438 MHz	33	2466 MHz
6	2412 MHz	20	2440 MHz	34	2468 MHz
7	2414 MHz	21	2442 MHz	35	2470 MHz
8	2416MHz	22	2444 MHz	36	2472 MHz
9	2418 MHz	23	2446 MHz	37	2474 MHz
10	2420 MHz	24	2448 MHz	38	2476 MHz
11	2422 MHz	25	2450 MHz	39	2478 MHz
12	2424 MHz	26	2452 MHz	40	2480 MHz
13	2426 MHz	27	2454 MHz		
14	2428 MHz	28	2456 MHz		

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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. The field strength of radiation emission was measured as EUT three orthogonal planes, E1 / E2 / H, are positioned to pre-scan the emission generating the highest one. The worst position is tested and recorded.
- 4. Investigation has been done on all the possible configurations for searching the worst case.

	RADIATED EMISSION TEST (BELOW 1 GHz)						
MODE	AVAILABLE CHANNEL			DATA RATE (Mbps)			
Bluetooth LE	Bluetooth LE 0 to 39 20 GFSK		1				
	RADIATED EN	MISSION TEST (ABOV	/E 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)			
			GFSK				

CONDUCTED TEST						
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)		
Bluetooth LE	0 to 39	0,20,39	GFSK	1		

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MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	ty
AC Power Line Conducted Emission	+/-	2.34	dB
Peak Output Power	+/-	1	dB
6dB Bandwidth & 99% Bandwidth	+/-	1.53	Hz
100 kHz Bandwidth Of Frequency Band Edges	+/-	1.69	dB
Peak Power Density		1.53	dB
Temperature	+/-	0.4	°C
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

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

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

	Limits			
Frequency range	(dBµV)			
MHz	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note

6.2 Measurement Equipment Used:

	Radiated Emission Test Site: Conduction C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R		
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	03/25/2021	03/24/2022		
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022		
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2021	03/26/2022		
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022		

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

6.3 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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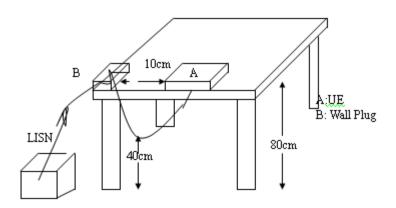
^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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Test SET-UP (Block Diagram of Configuration)



6.5 **Measurement Procedure:**

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result:

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

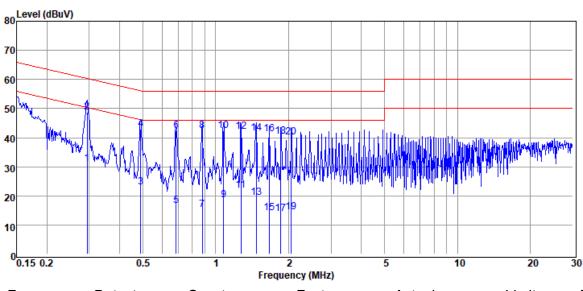
Report Number :E2/2021/70053 Test Site :Conduction C

Test Mode :BLE 1M Test Date :2021-08-02

Power :120V/60Hz Temp./Humi. :24.8/57

Probe :L1 Engineer :Ashton Chiu

Note: : Adapter:FSP05-AHCN3



		rieq	uelicy (Winz)			
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS		
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.29	Average	20.77	10.31	31.08	50.42	-19.34
0.29	QP	38.50	10.31	48.81	60.42	-11.61
0.49	Average	12.72	10.31	23.03	46.17	-23.14
0.49	QP	32.69	10.31	43.00	56.17	-13.17
0.69	Average	6.30	10.33	16.63	46.00	-29.37
0.69	QP	31.92	10.33	42.25	56.00	-13.75
0.88	Average	4.82	10.34	15.16	46.00	-30.84
0.88	QP	32.05	10.34	42.39	56.00	-13.61
1.08	Average	8.09	10.42	18.51	46.00	-27.49
1.08	QP	31.84	10.42	42.26	56.00	-13.74
1.27	Average	11.12	10.63	21.75	46.00	-24.25
1.27	QP	31.39	10.63	42.02	56.00	-13.98
1.47	Average	8.50	10.80	19.30	46.00	-26.70
1.47	QP	30.78	10.80	41.58	56.00	-14.42
1.67	Average	3.22	10.95	14.17	46.00	-31.83

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Report Number :E2/2021/70053

Test Mode :BLE 1M

Power :120V/60Hz

Probe :N

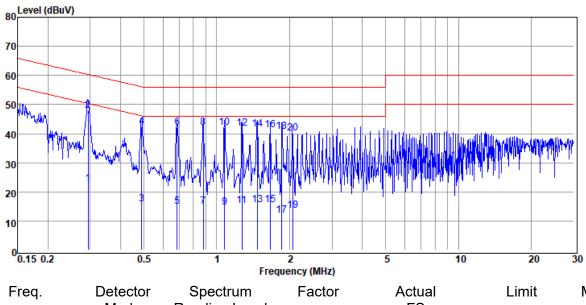
: Adapter:FSP05-AHCN3 Note:

Test Site : Conduction C

Test Date :2021-08-02

Temp./Humi. :24.8/57

Engineer :Ashton Chiu



		rieq	uelicy (WHZ)			
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.29	Average	12.30	10.32	22.62	50.43	-27.81
0.29	QP	37.66	10.32	47.98	60.43	-12.45
0.49	Average	5.53	10.32	15.85	46.18	-30.33
0.49	QP	32.01	10.32	42.33	56.18	-13.85
0.69	Average	4.53	10.34	14.87	46.00	-31.13
0.69	QP	31.66	10.34	42.00	56.00	-14.00
0.88	Average	4.60	10.35	14.95	46.00	-31.05
0.88	QP	31.66	10.35	42.01	56.00	-13.99
1.08	Average	4.36	10.43	14.79	46.00	-31.21
1.08	QP	31.52	10.43	41.95	56.00	-14.05
1.27	Average	4.68	10.64	15.32	46.00	-30.68
1.27	QP	31.04	10.64	41.68	56.00	-14.32
1.47	Average	4.74	10.81	15.55	46.00	-30.45
1.47	QP	30.80	10.81	41.61	56.00	-14.39
1.67	Average	4.57	10.96	15.53	46.00	-30.47

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

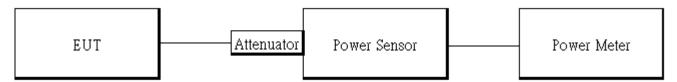
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 Measurement Equipment Used:

	Conducted Emission Test Site: Conducted D						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022		
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022		
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022		
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022		
Attenuator	Marvelous	WATT- 218FS-10	RF16	11/19/2020	11/18/2021		
DC Block	PASTERNAC K	PE8210	RF158	11/19/2020	11/18/2021		
Coaxial Cables	Woken	00100A1F2 A196C	RF57	11/19/2020	11/18/2021		
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A		

7.3 Test Set-up:



7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.

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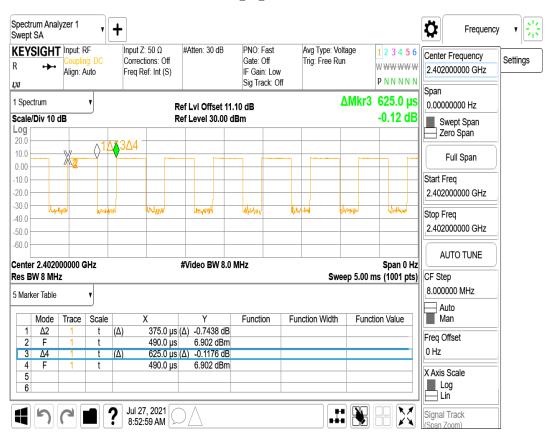
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- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

7.5 **Duty Factor:**

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE	60.00	2.22	2.67	3.00

BLE_1M_LowCH00-2402



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7.6 Output Power:

7.6.1 Peak & Avg

BI F mode:

DEL IIIO	<u>ac.</u>		-	-
СН	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	5.89	30
Mid	2442	default	6.62	30
High	2480	default	8.56	30
СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	4.84	30
Mid	2442	default	5.66	30
High	2480	default	7.84	30

^{*}Note: Measured by power meter, cable loss 11.1 dB + Duty cycle factor has been offseted to the

7.6.2 **EIRP**

EIRP BLE mode

СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit		
Low	2402	default	4.84	1.58	6.42	4W=	36	dBm
Mid	2442	default	5.66	1.58	7.24	4W=	36	dBm
High	2480	default	7.84	1.58	9.42	4W=	36	dBm

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

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8 **EMISSION BANDWIDTH MEASUREMENT**

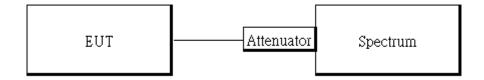
8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

Measurement Equipment Used

	Conducted Emission Test Site: Conducted D						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022		
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022		
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022		
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022		
Attenuator	Marvelous	WATT- 218FS-10	RF16	11/19/2020	11/18/2021		
DC Block	PASTERNAC K	PE8210	RF158	11/19/2020	11/18/2021		
Coaxial Cables	Woken	00100A1F2 A196C	RF57	11/19/2020	11/18/2021		
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A		

8.3 Test Set-up:



8.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as

RBW= 100 kHz.

VBW = 3 X RBW,

Span= 2 to 5 times of the OBW,

Sweep=auto,

Detector = Peak, and Max hold for -6dB Bandwidth test.

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5. Set the spectrum analyzer as

RBW= 1 % to 5% of 99% Bandwidth,

VBW ≥ 3 X RBW.

Span= large enough to capture all products of the modulation process,

Sweep=auto,

Detector = Peak, and Max hold for 99% Bandwidth test.

- 6. Mark the peak frequency and 99%dB (upper and lower) frequency
- 7. Repeat above procedures until all test default channel is completed



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Measurement Result: 8.5

BLE mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6961	≧ 0.5	PASS
2442	0.7	≧ 0.5	PASS
2480	0.7025	≥ 0.5	PASS

BLE mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.045
2442	1.0444
2480	1.0435

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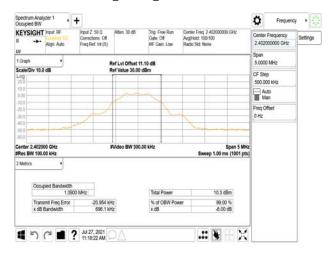
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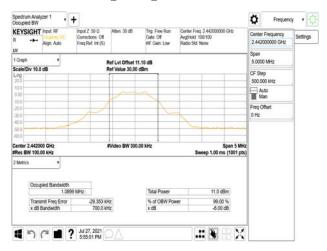


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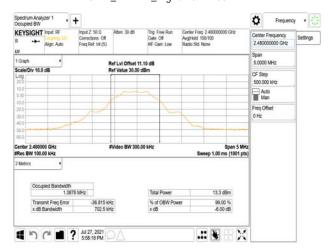
OBW_BLE 1M_LowCH00-2402MHz



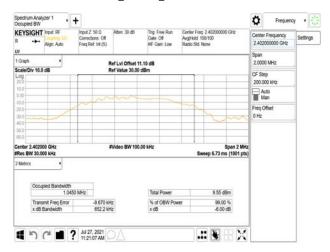
OBW_BLE 1M_MidCH20-2442MHz



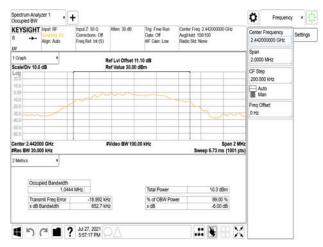
OBW_BLE 1M_HighCH39-2480MHz



IC OBW_BLE 1M_LowCH00-2402MHz



IC OBW_BLE 1M_MidCH20-2442MHz



IC OBW_BLE 1M_HighCH39-2480MHz



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

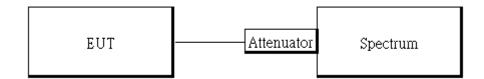
9.1 Standard Applicable

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, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

Measurement Equipment Used:

Conducted Emission Test Site: Conducted D							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022		
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022		
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022		
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022		
Attenuator	Marvelous	WATT- 218FS-10	RF16	11/19/2020	11/18/2021		
DC Block	PASTERNAC K	PE8210	RF158	11/19/2020	11/18/2021		
Coaxial Cables	Woken	00100A1F2 A196C	RF57	11/19/2020	11/18/2021		
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A		

9.3 Test SET-UP:



9.4 **Measurement Procedure**

9.4.1 Reference Level of Emission Limit:

- 1. Set analyzer center frequency to DTS channel center frequency.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas.

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Guidance.

- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

9.4.2 **Conducted Band Edge:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep =
- 6. Set DL as the limit = reading on marker of reference level measurement 20dBm
- 7. Mark the highest readings of the emissions outside of 2400MHz~2483.5MHz.
- 8. Repeat above procedures until all default test channel (low and high) was complete.

9.4.3 **Conducted Spurious Emission:**

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW=300 kHz, Detector = Peak, Sweep = Auto
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

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Measurement Result 9.5

Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	3.21	-16.79
2442	3.93	-16.07
2480	6.17	-13.83

NOTE: cable loss as 11.1dB that offsets in the spectrum

NOTE: Refer to next page for plots.

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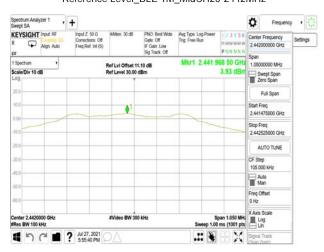


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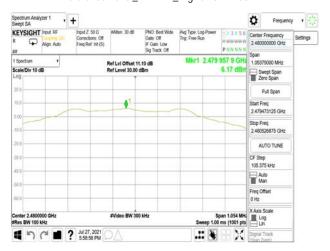
Reference Level_BLE 1M_LowCH00-2402MHz



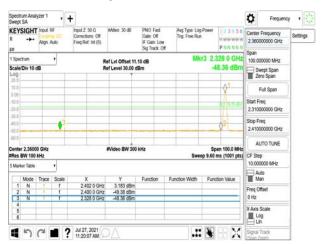
Reference Level_BLE 1M_MidCH20-2442MHz



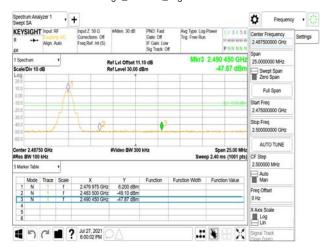
Reference Level_BLE 1M_HighCH39-2480MHz



Band Edge_BLE 1M_LowCH00-2402MHz



Band Edge_BLE 1M_HighCH39-2480MHz



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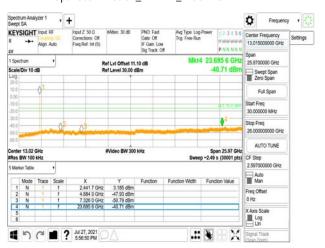


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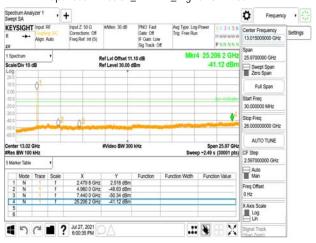
Spurious Emission_BLE 1M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



Spurious Emission_BLE 1M_HighCH39-2480MHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 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 and RSS-Gen §8.9 Table 5 and 6 limit as below.

And according to §15.33(a) (1) & RSS-Gen §6.13.2.a 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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10.2 Measurement Equipment Used

Radiated Emission Test Site: SAC C							
EQUIPMENT TYPE	MFR	MODEL NUM- BER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021		
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021		
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022		
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022		
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022		
Pre-Amplifier	EMC Instru- ments	EMC330	980096	11/19/2020	11/18/2021		
Pre-Amplifier	EMC Instru- ments	EMC0011830	980199	11/19/2020	11/18/2021		
Pre-Amplifier	EMC Instru- ments	EMC184045B	980135	10/27/2020	10/26/2021		
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021		
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/19/2020	11/18/2021		
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021		
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021		
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R		
Notebook	Lenovo	L440	P0000367	N/A	N/A		

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

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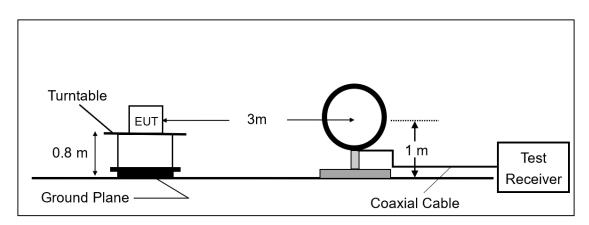
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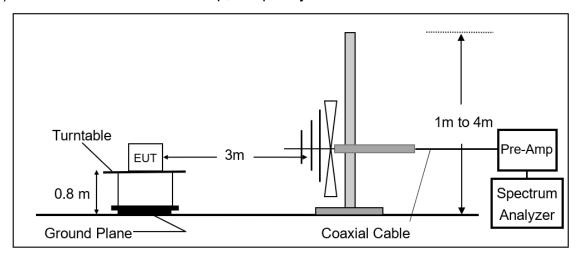
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10.3 Test SET-UP

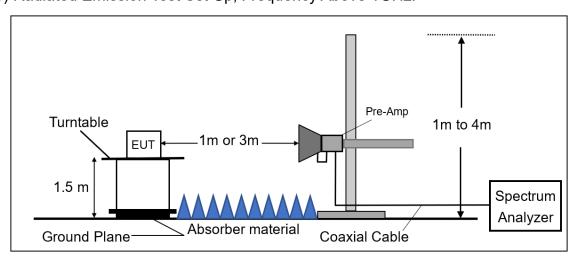
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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10.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 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 Maximum Emission Measurements 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 Emission Measurements 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.
- 12. Repeat above procedures until all default test channel measured were complete.

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10.5 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($dB\mu V$) + Factor(dB)

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

10.6 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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10.7 **Measurement Result:**

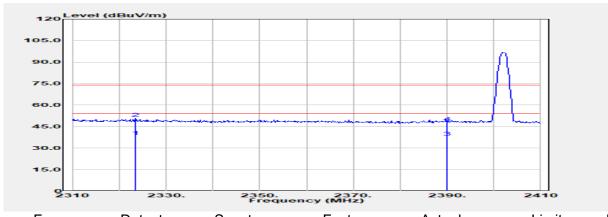
10.7.1 Radiated Band Edge Measurement Result

Test Site :SAC C Report Number :E2/2021/70053

:2021-08-25 Operation Mode :BLE 1M Test Date

Test Frequency :2402 MHz Temp./Humi. :22.9/57 Test Mode :BE CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2323.461	Average	32.51	5.78	38.29	54.00	-15.71
2323.461	Peak	45.10	5.78	50.88	74.00	-23.12
2390.000	Average	32.56	5.18	37.74	54.00	-16.26
2390.000	Peak	42.78	5.18	47.96	74.00	-26.04

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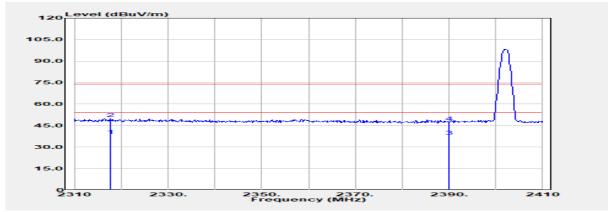
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-25

Test Frequency :2402 MHz Temp./Humi. :22.9/57

Antenna Pol. :Horizontal Test Mode :BE CH LOW

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2317.692	Average	32.54	5.80	38.34	54.00	-15.66
2317.692	Peak	44.05	5.80	49.85	74.00	-24.15
2390.000	Average	32.51	5.18	37.69	54.00	-16.31
2390.000	Peak	42.43	5.18	47.61	74.00	-26.39

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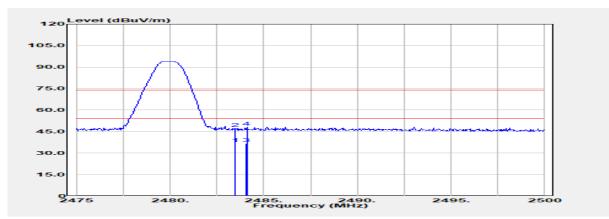
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Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-25

Test Frequency :2480 MHz Temp./Humi. :22.9/57
Test Mode :BE CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	32.77	4.04	36.81	54.00	-17.19
2483.500	Peak	43.08	4.04	47.11	74.00	-26.89
2484.094	Average	32.71	4.03	36.74	54.00	-17.26
2484.094	Peak	44.06	4.03	48.09	74.00	-25.91

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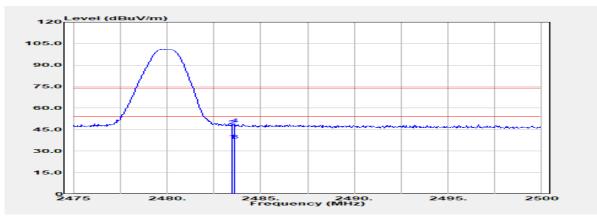
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-25

Test Frequency :2480 MHz Temp./Humi. :22.9/57

Test Mode :BE CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
2483.500	Average	33.55	4.04	37.59	54.00	-16.41
2483.500	Peak	43.90	4.04	47.94	74.00	-26.06
2483.614	Average	33.51	4.03	37.54	54.00	-16.46
2483.614	Peak	44.86	4.03	48.89	74.00	-25.11

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10.7.2 **Radiated Spurious Emission**

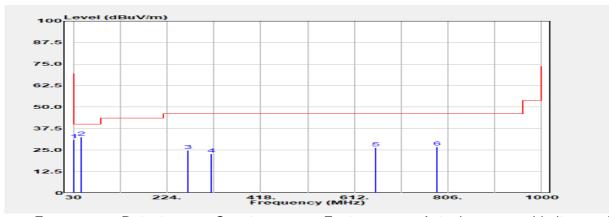
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2442 MHz Temp./Humi. :24.3/56

Test Mode :TX CH MID Antenna Pol. :VERTICAL

EUT Pol :E2 Plane :Enzo Chang Engineer



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
31.554	Peak	38.35	-7.29	31.06	40.00	-8.94
47.099	Peak	49.85	-17.39	32.47	40.00	-7.53
267.837	Peak	40.53	-15.69	24.84	46.00	-21.16
314.471	Peak	38.15	-15.29	22.86	46.00	-23.14
656.458	Peak	35.35	-8.99	26.36	46.00	-19.64
783.926	Peak	33.78	-6.93	26.85	46.00	-19.15

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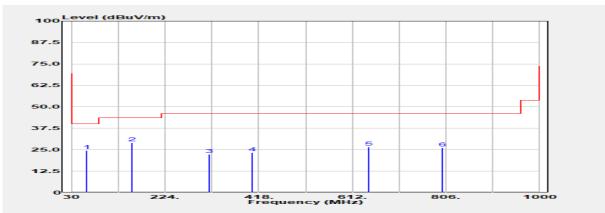
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M **Test Date** :2021-08-05

Test Frequency :2442 MHz Temp./Humi. :24.3/56

Test Mode :TX CH MID Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
62.644	Peak	48.47	-23.87	24.60	40.00	-15.40
155.914	Peak	47.70	-18.73	28.97	43.50	-14.53
314.471	Peak	37.62	-15.29	22.34	46.00	-23.66
404.631	Peak	35.63	-12.27	23.36	46.00	-22.64
647.131	Peak	35.10	-8.60	26.50	46.00	-19.50
799.471	Peak	33.34	-7.33	26.01	46.00	-19.99

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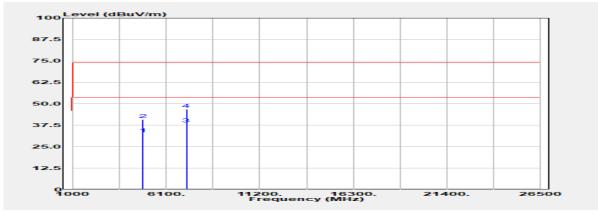
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Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2402 MHz Temp./Humi. :24.8/51 Test Mode :TX CH LOW Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Enzo Chang



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	21.78	10.87	32.65	54.00	-21.35
4804.000	Peak	29.95	10.87	40.82	74.00	-33.18
7206.000	Average	21.08	17.27	38.35	54.00	-15.65
7206.000	Peak	29.65	17.27	46.93	74.00	-27.07

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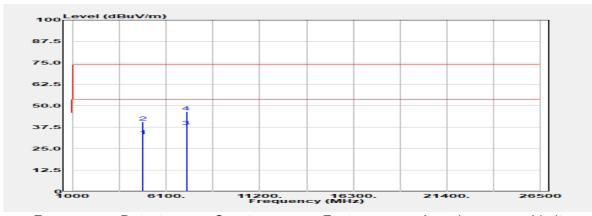
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2402 MHz Temp./Humi. :24.8/51

Test Mode :TX CH LOW Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Enzo Chang



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	21.71	10.87	32.58	54.00	-21.42
4804.000	Peak	29.64	10.87	40.52	74.00	-33.48
7206.000	Average	20.91	17.27	38.18	54.00	-15.82
7206.000	Peak	29.41	17.27	46.68	74.00	-27.32

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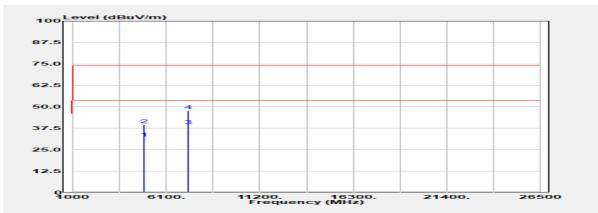
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Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2442 MHz Temp./Humi. :24.8/51 Test Mode :TX CH MID Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	21.68	10.16	31.84	54.00	-22.16
4884.000	Peak	29.39	10.16	39.55	74.00	-34.45
7326.000	Average	20.88	18.20	39.08	54.00	-14.92
7326.000	Peak	29.58	18.20	47.78	74.00	-26.22

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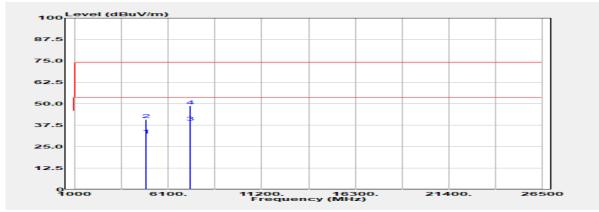
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2442 MHz Temp./Humi. :24.8/51

Test Mode :TX CH MID Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Enzo Chang



Freq.	Detector Mode	Spectrum	Factor	Actual FS	Limit	Margin
		Reading Level			@3m	
MHz	PK/QP/AV	dΒμV	dB	dBμV/m	dBμV/m	dB
4884.000	Average	21.66	10.16	31.82	54.00	-22.18
4884.000	Peak	30.63	10.16	40.79	74.00	-33.21
7326.000	Average	21.18	18.20	39.38	54.00	-14.62
7326.000	Peak	30.70	18.20	48.90	74.00	-25.10

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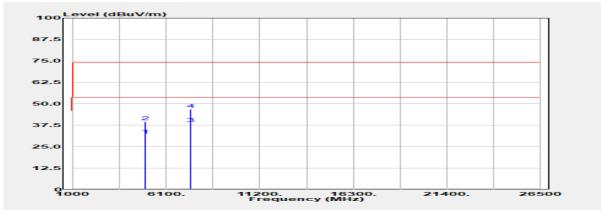
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Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2480 MHz Temp./Humi. :24.8/51 Test Mode :TX CH HIGH Antenna Pol. :Vertical

EUT Pol :E2 Plane Engineer :Enzo Chang



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	21.73	10.20	31.93	54.00	-22.07
4960.000	Peak	29.46	10.20	39.66	74.00	-34.34
7440.000	Average	20.82	17.86	38.68	54.00	-15.32
7440.000	Peak	28.97	17.86	46.83	74.00	-27.17

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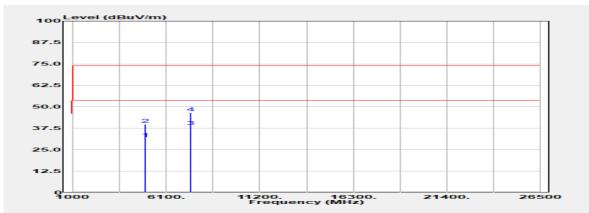
Report Number :E2/2021/70053 Test Site :SAC C

Operation Mode :BLE 1M Test Date :2021-08-05

Test Frequency :2480 MHz Temp./Humi. :24.8/51

Test Mode :TX CH HIGH Antenna Pol. :Horizontal

EUT Pol :E2 Plane Engineer :Enzo Chang



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	21.37	10.20	31.57	54.00	-22.43
4960.000	Peak	29.71	10.20	39.91	74.00	-34.09
7440.000	Average	20.81	17.86	38.67	54.00	-15.33
7440.000	Peak	28.87	17.86	46.74	74.00	-27.26

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11 POWER SPECTRAL DENSITY

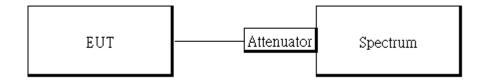
11.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

	Conducted Emission Test Site: Conducted D								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.				
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022				
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022				
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022				
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022				
Attenuator	Marvelous	WATT- 218FS-10	RF16	11/19/2020	11/18/2021				
DC Block	PASTERNAC K	PE8210	RF158	11/19/2020	11/18/2021				
Coaxial Cables	Woken	00100A1F2 A196C	RF57	11/19/2020	11/18/2021				
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A				

11.3 Test Set-up:



11.4 Measurement Procedure:

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz. & the VBW = 10 kHz
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.

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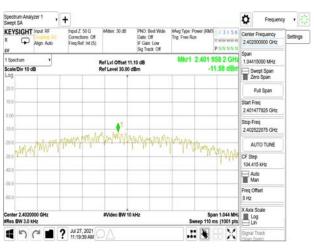
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

11.5 Measurement Result:

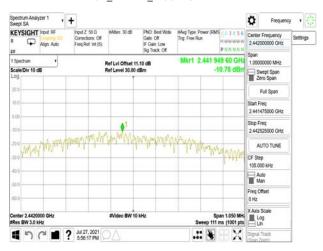
Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-11.580	8	PASS
2442	-10.780	8	PASS
2480	-8.530	8	PASS

NOTE: cable loss as 11.1dB that offsets in the spectrum

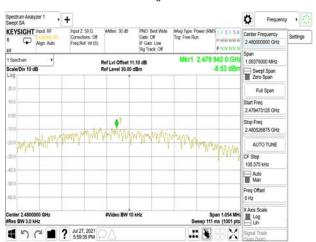
PSD_BLE 1M_LowCH00-2402MHz



PSD_BLE 1M_MidCH20-2442MHz



PSD_BLE 1M_HighCH39-2480MHz



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

12.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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