

ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**



Applicant: Manufacturer: Product Name:	Sonova Consumer Hearing GmbH AM Labor 1, 30900 Wedemark, Germany. Sonova Consumer Hearing GmbH AM Labor 1, 30900 Wedemark, Germany. ACCENTUM / ACCENTUM R
Brand Name:	SENNHEISER
Model No.:	ACAEBT
Model Difference:	Main source: Black enclosure+VDL(Battery)+Primary source components 2 nd source: White enclosure+Synergy(Battery)+Alternate source components
Report Number:	TERF2304000876E2
FCC ID	2A3ULACAEBT
Date of EUT Received:	April 13, 2023
Date of Test:	April 13, 2023~April 20, 2023
Issue Date:	June 6, 2023

Jit, Pei

Approved By

Vito Pei

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.

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History									
Report Number	Revision	Description	Issue Date	Revised By	Remark				
TERF2304000876E2	00	Original	May 25, 2023	Celery Wei					
TERF2304000876E2	01	 Revised channel band- width Revised Radiated Measurement 	June 6, 2023	Celery Wei	*				

Note:

- 1 The remark "*" indicates modification of the report upon requests from certification body.
- 2 Variant information of main and 2nd source is provided by the applicant, test results of this report are applicable to the sample EUT(s) received. And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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GENERAL INFORMATION 1

1.1 **Product Description**

Wireless Headphones
ACCENTUM / ACCENTUM R
SENNHEISER
Engineering sample
ACAEBT
Main source: Black enclosure+VDL(Battery)+Primary source components 2nd source: White enclosure+Synergy(Battery)+Alternate source components
HDT567-R-MAIN-R3
N/A
TE_SP_20230403113
5Vdc, 700 mA (from Type-C USB interface) 3.7Vdc, 800mAh (from battery)
5Vdc, 700 mA (from Type-C USB interface)
1.2m shielded USB cable without core
Blue Test3/3.3.4.685

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1.2 **RF Specification**

Technology	Bluetooth V5.2 Dual mode
Operating Frequency	2402 - 2480MHz (for Frequency Band: 2400-2483.5MHz)
Channel number	40 channels
Channel Spacing	2MHz
Channel Bandwidth	1MHz for 1Mbps ; 2MHz for 2Mbps
Data Transfer Rate	BLE 4.0: 1Mbps, BLE 5.2: 2Mbps
Channel Spacing	2MHz
Modulation type	GFSK
Transmission Technology	DSSS
Transmit Power	BLE 1M: 3.20 dBm BLE 2M: 3.15 dBm
Operating Termperature range	0°C – 45°C

1.3 **Antenna Designation**

Antenna	Freq.	Peak Antenna
Туре	(MHz)	Gain (dBi)
PIFA	2402–2480	2.04

Note: Antenna information is provided by the applicant.

1.4 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013

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1.5 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier		
		SAC 1				
		SAC 2				
		SAC 3				
	No 124 Wu Kung Bood Now Toingi	Conduction 1				
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New	Conducted 1	TW0027			
	Taipei City, Taiwan.	Conducted 2	100027			
	Taiper City, Taiwan.	Conducted 3		TW3702		
		Conducted 4				
		Conducted 5				
SGS Taiwan Ltd.		Conducted 6				
Central RF Lab.	No 2 Kaji 1et Dd. Quishan District	Conduction C				
(TAF code 3702)		SAC C	-			
		SAC D				
		SAC G				
		Conducted A				
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conducted B	TW0028			
	Tabydan City, Taiwan 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."

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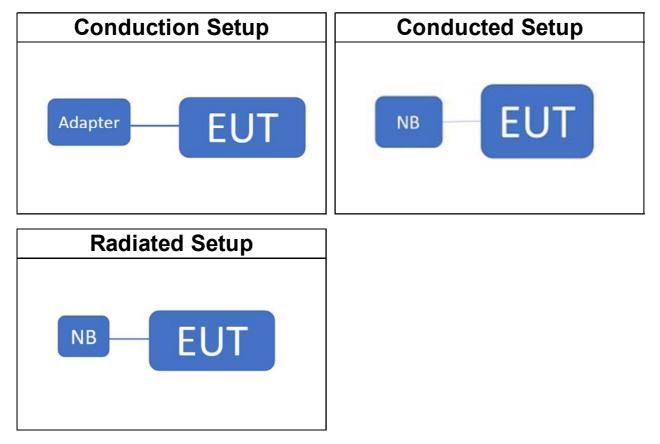


2.4 **Measurement Results Explanation Example**

2.4.1 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.

2.5 **Test Configuration**



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2.6 Control Unit(s)

AC Power-Line Conducted Emission Test Site: Conduction C											
EQUIPMENT TYP	Έ	MFR		MODE	ODEL NUMBER SERIAL		AL NUMBER	LAST CAL.		CAL DUE.	
Adapter		Sor	ıy	AC-	0400-TW	/	3	3504600	N.C.R		N.C.R
Notebook		Lenc	VO		T470		P	0001293	N.C.R		N.C.R
Cable USB-A to USB-C	C(1.2M)	Mei	ry	НW	-MVC001	1		N/A	N.C.R		N.C.R
			Conducte	ed Emiss	ion Test	t Site: (Conduc	ted E			
EQUIPMENT TYPE		MFR	MODEL NU	JMBER	SERIA	AL NUM	IBER	LAS	T CAL.		CAL DUE.
Cable USB-A to USB-C (1.2M) Black	Ν	Лerry	HW-MV	C001	C001 N/A			N.C.R			N.C.R
Notebook	Le	enovo	L480	ט	PO	0002332	2	Ν	I.C.R		N.C.R
			Radia	ated Emi	ssion T	Test Si	te : SAC	G			
EQUIPMENT TYPE		MFR	MODE	LNUMB	ER S	SERIAL NUMBER LAST CAL. CAL		CAL DUE.			
Cable USB-A to USB-C (1.2M) Black		Merry	HW	-MVC001	MVC001		N/A N.C		N.C.R		N.C.R
Notebook		Lenovo		T470		P00	01293		N.C.R		N.C.R

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f (886-2) 2298-0488



3 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	Compliant
§15.247(b) (3)	Peak Output Power	Compliant
§15.247(a)(2)	Emission Bandwidth	Compliant
§15.247(d) §15.205 §15.209	Radiated & Conducted Band Edge and Spurious Emission	Compliant
§15.247(e)	Peak Power Density	Compliant
§15.203	Antenna Requirement	Compliant

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DESCRIPTION OF TEST MODES

4.1 **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		

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. The field strength of radiation emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.
- 4. Investigation has been done on all the possible configurations for searching the worst case.

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CONDUCTED TEST								
MODE AVAILABLE TESTED MODULATION DATA RATE (Mbps)								
Bluetooth LE	0 to 39	0,20,39	GFSK	1				
Bluetooth LE	0 to 39	0,20,39	GFSK	2				

RADIATED EMISSION TEST (BELOW 1 GHz)							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)			
Bluetooth LE	0 to 39	20	GFSK	1			
	RADIATEI	D EMISSION TEST (A	ABOVE 1 GHz)				
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)			
Bluetooth LE	0 to 39	0,20,39	GFSK	1			
Bluetooth LE	0 to 39	0,20,39	GFSK	2			

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5 MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	ÿ
AC Power Line Conducted Emission	+/-	2.32	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Peak Power Density	+/-	2.16	dB
Temperature	+/-	0.7	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
Polarization: Vertical	+/-	2.8	dB	9kHz~30MHz	
	+/-	4.82	dB	30MHz - 1000MHz	
	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	dB	18GHz - 40GHz	
	+/-	2.8	dB	9kHz~30MHz	
Polarization: Horizontal	+/-	4.54	dB	30MHz - 1000MHz	
	+/-	4.37	dB	1GHz - 18GHz	
	+/-	4.21	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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MEASUREMENT EQUIPMENT USED 6

	AC Power-Line Conducted Emission Test Site: Conduction C						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
LISN	SCHWARZBECK	NSLK8127	974	05/11/2022	05/10/2023		
EMI Test Receiver	R&S	ESCI	101342	04/25/2022	04/24/2023		
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2023	03/26/2024		
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2023	03/26/2024		
Test Software	audix	e3	E3 20923 SGS Ver.9	N.C.R	N.C.R		

6.1 **Emission from AC power line**

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted E						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Spectrum Analyzer	Keysight	N9010B	MY60240548	01/13/2023	01/12/2024	
Attenuator	Marvelous	MVE2213-10	RF06	11/16/2022	11/15/2023	
DC Block	PASTERNACK	PE8210	RF157	11/16/2022	11/15/2023	
Test Software	SGS Taiwan	Radio Test Software	Ver.21	N.C.R	N.C.R	
Power Meter	Anritsu	ML2496A	1512003	07/26/2022	07/25/2023	
Power Sensor	Anritsu	MA2411B	1339378	07/26/2022	07/25/2023	
Power Sensor	Anritsu	MA2411B	1339379	07/26/2022	07/25/2023	

Radiated Measurement 6.3

Radiated Emission Test Site: SAC G							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Broadband	SCHWARZBECK	VULB 9168	1206	01/17/2023	01/16/2024		
Horn Antenna	Schwarzbeck	BBHA9170	184	12/15/2022	12/14/2023		
Horn Antenna	RF SPIN	DRH18-E	210105A18E	04/18/2023	04/17/2024		
Loop Antenna	ETS.LINDGREN	6502	143303	05/06/2022	05/07/2023		
3m Site NSA	SGS	966 chamber G	N/A	03/30/2023	03/29/2024		
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	07/13/2022	07/14/2023		
Pre-Amplifier	EMC Instruments	EMC18405SEE	980881	10/25/2022	10/24/2023		
Pre-Amplifier	EMC Instruments	EMC330N	980781	03/15/2023	03/14/2024		
Pre-Amplifier	EMC Instruments	EMC118A45SE	980815	03/15/2023	03/14/2024		
Test Software	audix	e3	E3 20923 SGS Ver.9	N.C.R	N.C.R		
Coaxial Cable	EMC Instruments	EMCCFD400-NM-	210216 ` 210217 `	03/15/2023	03/14/2024		
Coaxial Cable	EMC Instruments	EMC104-SM-SM-	210219 ` 210220 `	03/15/2023	03/14/2024		
Coaxial Cable	EMC Instruments	EMC105-NM-NM-	210224 ` 210306	03/15/2023	03/14/2024		

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

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7 CONDUCTED EMISSION TEST

7.1 Standard Applicable:

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

Frequency range	Limits (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				

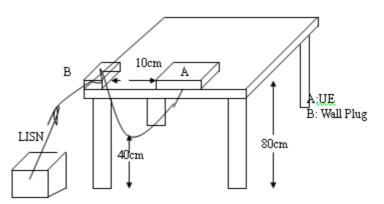
1. The lower limit shall apply at the transition frequencies

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

7.2 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.

7.3 Test Setup



7.4 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

7.5 Measurement Result:

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

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

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AC POWER LINE CONDUCTED EMISSION TEST DATA

Test Mode	:TERF2304000876E2 :BLE	Test Site Test Date	:Conduction :2023-04-20		
Power	:120V60Hz	Temp./Humi.	:22.4/54		
Probe	:L1	Engineer	:Temo Chei	n	
80 Level (d	dBuV)				
70.0					
60.0					
50.0					
40.0					
30.0		6			
20.0	My hours the	Winn	Manut	make	
10.0					
0.15	0.5 1 Freque	2 5 ency (MHz)	10	20 30	
Freq.	Detector Spectrum Mode Reading Level	Factor A	ctual FS	Limit	Margin
MHz	PK/QP/AV dBµV	dB d	BμV	dBµV	dB
0.153	Peak 36.02		6.29	65.82	-19.53
0.165	Peak 32.85		3.12	65.21	-22.09
0.178	Peak 30.65		0.92	64.59	-23.67
0.447	Peak 18.95		9.26	56.93	-27.68
1.210	Peak 13.94		4.53	56.00	-31.47
2.012	Peak 13.50	11.18 2	4.68	56.00	-31.32

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Report Number	:TERF2304000876E2	Test Site	:Conduction	С	
Test Mode	:BLE	Test Date	:2023-04-20		
Power	:120V60Hz	Temp./Humi.	:22.4/54		
Probe	:N	Engineer	:Temo Chen		
80 Level (c	dBuV)				
70.0					
60.0					
50.0					
40.0					
30.0	Mur hunghammen	e Maan a			
20.0		V may may	and the second of the second o		
10.0				~	
0.15	0.5 1	2 5	10 2	20 30	
0.15	Freque	2 5 ency (MHz)	10 2	20 30	
Freq.	Detector Spectrum Mode Reading Level		ctual FS	Limit	Margin
MHz F	PK/QP/AV dBµV			dBμV	dB
0.155	Peak 39.13			65.74	-16.33
0.176 0.200	Peak 35.18			64.68	-19.23
0.200	Peak 30.88 Peak 27.46			63.62 56.23	-22.48 -18.47
0.835	Peak 21.58			56.00	-24.09
1.991	Peak 19.61			56.00	-25.25

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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

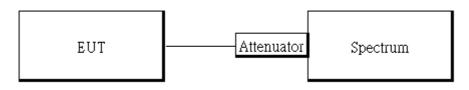
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

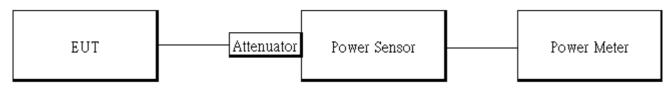
All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

8.2 Test Setup

8.2.1 Duty Cycle



8.2.2 Output Power



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8.3 **Measurement Procedure:**

8.3.1 **Duty Cycle**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Set span = Zero
- 3. RBW = 8MHz, VBW = 8MHz,
- 4. Detector = Peak

8.3.2 **Output Power**

- 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 power meter.
- 4. Record the max. Reading as observed from Power Meter.
- 5. Repeat above procedures until all test default channel measured was complete.

8.4 **Duty Factor:**

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	63.20	1.99	2.53	3.00
BLE 2M	33.60	4.74	4.76	5.00

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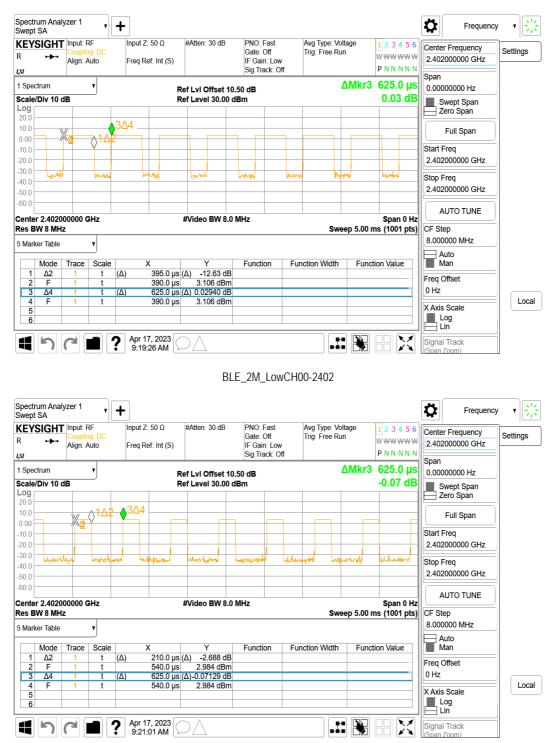
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BLE_1M_LowCH00-2402



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8.5 **Output Power:**

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	3.16	30
Mid	2442	default	3.16	30
High	2480	default	3.20	30
СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	2.99	30
Mid	2442	default	3.03	30
High	2480	default	3.07	30

*Note: Measured by power meter, cable loss 10.5 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

BLE 2M mode:

СН	Frequency (MHz)	Power set	Peak Power Output (dBm)	Required Limit (dBm)
Low	2402	default	3.15	30
Mid	2442	default	3.14	30
High	2480	default	3.11	30
СН	Frequency (MHz)	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Required Limit (dBm)
Low	2402	default	2.92	30
Mid	2442	default	2.91	30
High	2480	default	3.01	30

*Note: Measured by power meter, cable loss 10.5 dB + Duty cycle factor has been offseted to the power meter for Avg. power and cable loss has been offseted for Peak power measurement.

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9 EMISSION BANDWIDTH MEASUREMENT

9.1 **Standard Applicable**

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

9.2 **Test Setup**



9.3 **Measurement Procedure:**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

9.3.1 FCC measurements

- 1. The testing follows the Measurement Procedure of the KDB 558074 D01.
- 2. 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.
- 3. Mark the upper and lower frequencies of -6dB.
- 4. Repeat above procedures until all test default channel is completed.

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9.4 **Measurement Result:**

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.7169	\ge 0.5	PASS
2442	0.7163	≧ 0.5	PASS
2480	0.7145	≧ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result	
2402	1.255	\ge 0.5	PASS	
2442	1.262	\ge 0.5	PASS	
2480	1.215	≧ 0.5	PASS	

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0363
2442	1.0356
2480	1.0328

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0466
2442	2.0457
2480	2.0445

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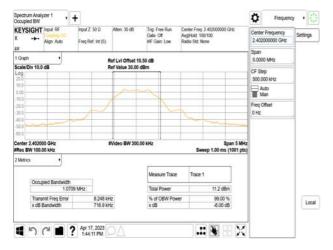
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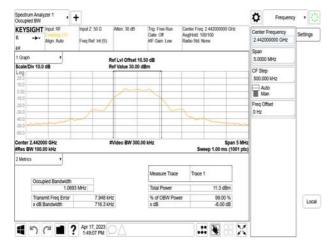
Report No.: TERF2304000876E2 Page: 24 of 62



OBW_BLE 1M_LowCH00-2402MHz



OBW_BLE 1M_MidCH20-2442MHz



OBW_BLE 1M_HighCH39-2480MHz



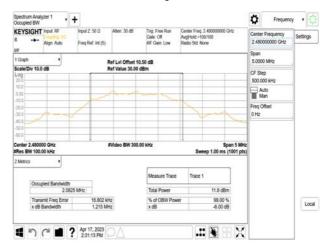
OBW_BLE 2M_LowCH00-2402MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 2M_HighCH39-2480MHz



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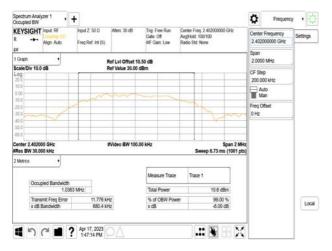
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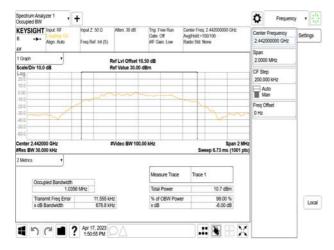
Report No.: TERF2304000876E2 Page: 25 of 62



IC OBW_BLE 1M_LowCH00-2402MHz



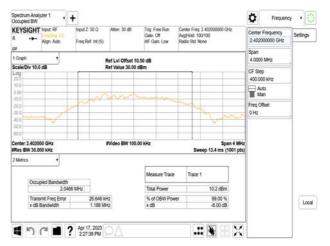
IC OBW_BLE 1M_MidCH20-2442MHz



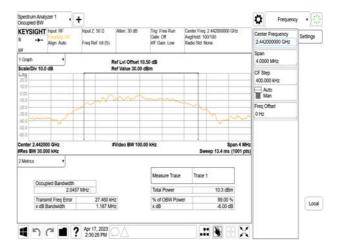
IC OBW_BLE 1M_HighCH39-2480MHz



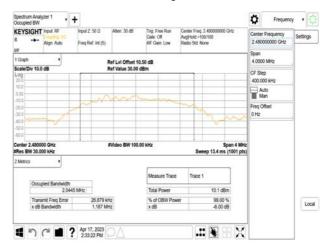
IC OBW_BLE 2M_LowCH00-2402MHz



IC OBW_BLE 2M_MidCH20-2442MHz



IC OBW_BLE 2M_HighCH39-2480MHz



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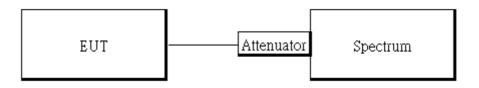


10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Test Setup



10.3 Measurement Procedure

Reference Level of Emission Limit: 10.3.1

- 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 = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

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10.3.2 **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 = auto
- 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.

10.3.3 **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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10.4 Measurement Result

BLE 1M_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	4.32	-15.68
2442	4.43	-15.57
2480	4.24	-15.76

NOTE: cable loss as 10.5dB that offsets in the spectrum NOTE: Refer to next page for plots.

BLE 2M Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	4.27	-15.73
2442	4.40	-15.60
2480	4.20	-15.80

NOTE: cable loss as 10.5dB that offsets in the spectrum NOTE: Refer to next page for plots.

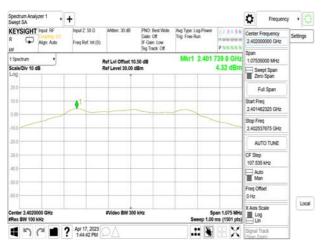
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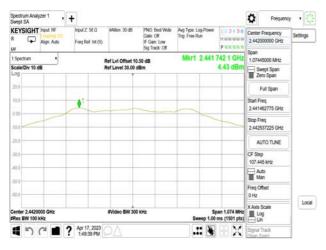
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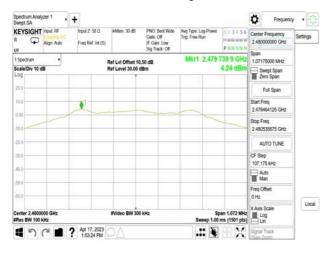
Reference Level_BLE 1M_LowCH00-2402MHz



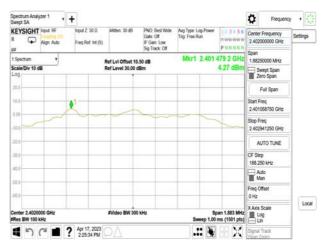
Reference Level_BLE 1M_MidCH20-2442MHz



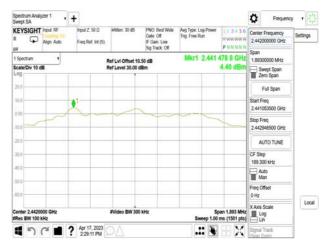
Reference Level_BLE 1M_HighCH39-2480MHz



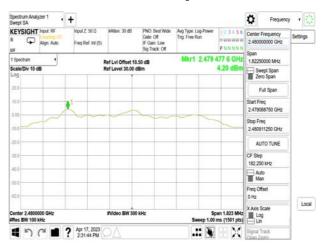
Reference Level_BLE 2M_LowCH00-2402MHz



Reference Level_BLE 2M_MidCH20-2442MHz



Reference Level_BLE 2M_HighCH39-2480MHz



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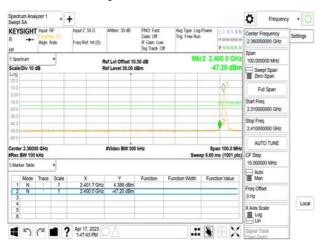
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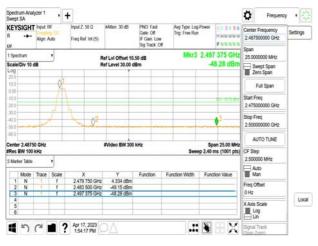
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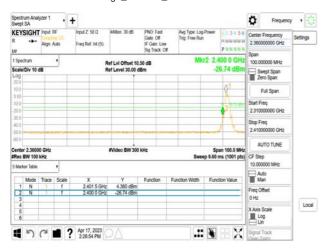
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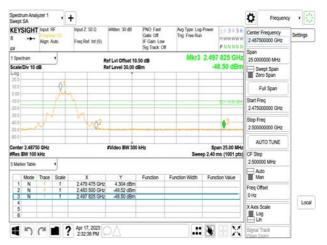
Band Edge_BLE 1M_HighCH39-2480MHz



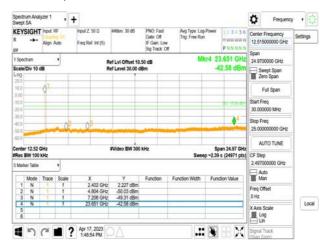
Band Edge_BLE 2M_LowCH00-2402MHz



Band Edge_BLE 2M_HighCH39-2480MHz



Spurious Emission_BLE 1M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



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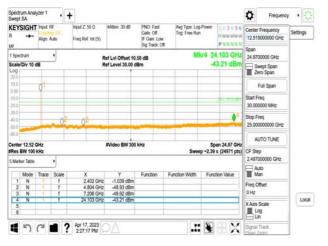
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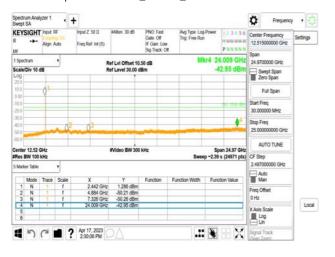
Spurious Emission_BLE 1M_HighCH39-2480MHz

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Spurious Emission_BLE 2M_LowCH00-2402MHz



Spurious Emission_BLE 2M_MidCH20-2442MHz



Spurious Emission_BLE 2M_HighCH39-2480MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 **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: The lower limit shall apply at the transition frequencies.

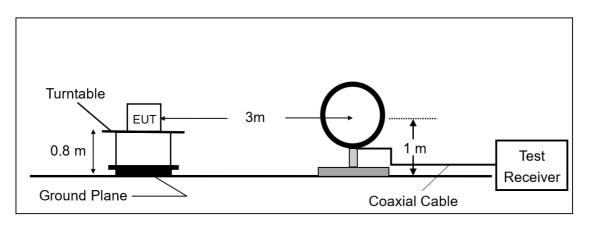
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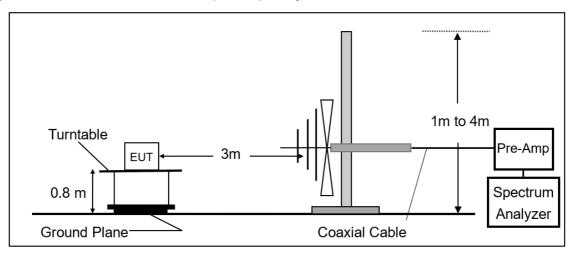


11.2 Test Setup

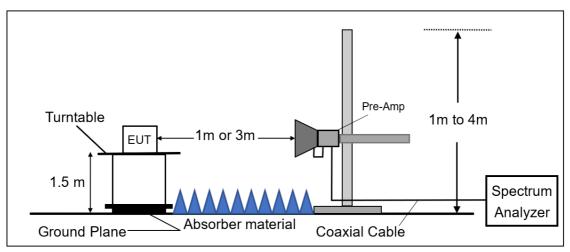
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.3 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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11.4 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 RA = Reading Amplitude AF = Antenna Factor CL = Cable Attenuation Factor (Cable Loss) AG = Amplifier Gain

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)

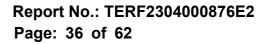
11.5 Test Results of Radiated Spurious Emissions from 9 kHz to 30 MHz

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) was not reported.

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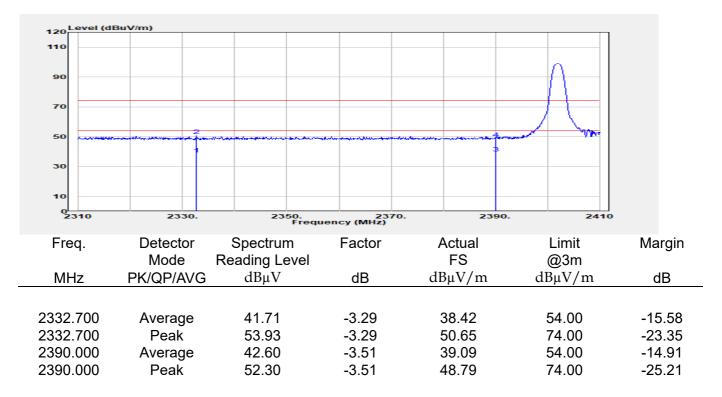




11.6 **Measurement Result:**

11.6.1 **Radiated Band Edge Measurement Result**

Report Number	:TERF2304000876E2	Test Site	:SAC G Chamber
Operation Mode	:BLE 1M	Test Date	:2023-04-18
Test Frequency	:2402 MHz	Temp./Humi.	:23.2/61
Test Mode	:Bandedge	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



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Report Numbe Operation Mod Test Frequency Test Mode EUT Pol	le :BLE 1M			Test Site Test Date Temp./Humi. Antenna Pol. Engineer		r
Level (dBu	IV/m)					
120 Level (ub)						
90						
70						
50	2		-			
30					3	
10						
0 2310	2330.	2350. Frequ	23 ency (MHz)	370. 2	390. 2410	
Freq.	Detector Mode F	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dBµV	dB	dBµV/m	$dB\mu V/m$	dB
2319.000	Average	42.40	-3.27	39.13	54.00	-14.87
2319.000	Peak	54.72	-3.27	51.45	74.00	-22.55
2390.000	Average	42.33	-3.51	38.82	54.00	-15.18
2390.000	Peak	53.62	-3.51	50.11	74.00	-23.89

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	e:BLE 1M	00876E2		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		r
120 Level (dBu\ 110 90	//m)					
70		24				
50		B	And amount	man and a second and	Alexander and a second second	
30						
10						
0L 2475	2480.	2485. Freque	24 ency (MHz)	190. 2	495. 2500	
Freq.		Spectrum ading Level	Factor	Actual FS	Limit @3m	Margin
MHz F	PK/QP/AVG	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500	Average Peak	45.48 62.10	-3.54 -3.54	41.94 58.56	54.00 74.00	-12.06 -15.44
2483.625	Average	44.89	-3.54	41.35	54.00	-12.65
2483.625	Peak	62.03	-3.54	58.48	74.00	-15.52

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BLE 1M	00876E2		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		r
120 Level (dBuV 110 90 70 50 30	//m)	3	*w/* Receive are (* * * * * * *			
2475	2480.	2485. Freque	24 ency (MHz)	190. 2	495. 2500	•
Freq.		Spectrum ading Level	Factor	Actual FS	Limit @3m	Margin
MHz P	PK/QP/AVG	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.600 2483.600	Average Peak Average Peak	43.82 60.74 44.21 60.89	-3.54 -3.54 -3.54 -3.54	40.28 57.20 40.67 57.35	54.00 74.00 54.00 74.00	-13.72 -16.80 -13.33 -16.65

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Report Numbe Operation Moo Test Frequenc Test Mode EUT Pol	le :BLE 2M	000876E2		Test Site Test Date Temp./Humi. Antenna Pol Engineer		ïr
120 Level (dBr 110 90	uV/m)					
70						
50	and and a substantian from a substantian	mar and the second second		ut was come of the or w	- A	
30						
10						
2310	2330.	2350. Frequ	23 ency (MHz)	370.	2390. 2410	•
Freq.	Detector Mode R	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dBµV	dB	dBµV/n	n dBµV/m	dB
2382.000 2382.000	Average Peak	42.23 54.62	-3.47 -3.47	38.76 51.15	54.00 74.00	-15.24 -22.85
2390.000 2390.000	Average Peak	42.62 52.66	-3.51 -3.51	39.11 49.15	54.00 74.00	-14.89 -24.85

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Report Numbe Operation Mod Test Frequency Test Mode EUT Pol	le :BLE 2M			Test Site Test Date Temp./Humi. Antenna Pol. Engineer		r
Lough (dB)						
120 Level (ub)						
90						
70						
50		2	and a graph of a	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	America Americ	
30						
10						
2310	2330.	2350. Frequ	23 ency (MHz)	370. 2	390. 2410	
Freq.	Detector Mode F	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AVG	dBµV	dB	dBµV/m	u dBµV∕m	dB
	•			00.47	54.00	45.50
2338.900	Average	41.76	-3.29	38.47	54.00	-15.53
2338.900	Peak	54.14	-3.29	50.85	74.00	-23.15
2390.000	Average	41.92	-3.51	38.41	54.00	-15.59
2390.000	Peak	51.92	-3.51	48.41	74.00	-25.59

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Report Number Operation Mode Test Frequency Test Mode EUT Pol	:BLE 2M	00876E2		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		
120 Level (dBuV 110 90 70 50 30	/m)					
2475	2480.	2485. Frequ	24 ency (MHz)	190. 2	495. 2500	
Freq.	Mode Rea	Spectrum ading Level	Factor	Actual FS	Limit @3m	Margin
MHz F	YK/QP/AVG	dBµV	dB	dBµV/m	ı dBµV∕m	dB
2483.500 2483.500 2483.650 2483.650	Average Peak Average Peak	54.06 62.02 50.01 62.07	-3.54 -3.54 -3.54 -3.54	50.52 58.48 46.46 58.53	54.00 74.00 54.00 74.00	-3.48 -15.52 -7.54 -15.47

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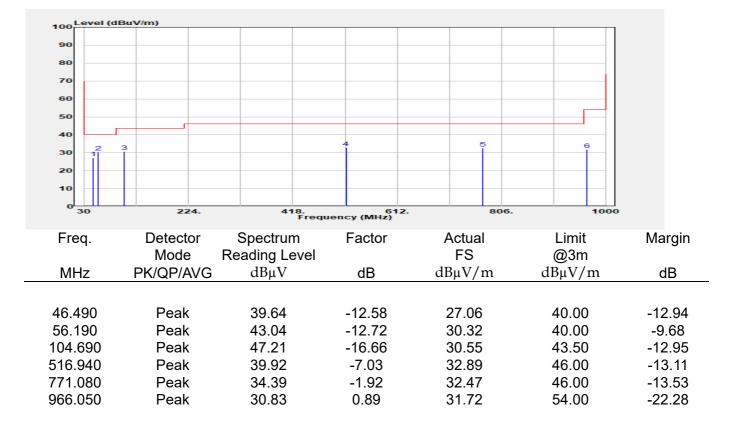
Report Number Operation Mode Test Frequency Test Mode EUT Pol	BLE 2M	00876E2		Test Site Test Date Temp./Humi. Antenna Pol. Engineer		-
120 Level (dBu\ 110 90 70 50	//m)					
30						
0 2475	2480.	2485. Frequ	24 ency (MHz)	490. 2	495. 2500	
Freq.		Spectrum ading Level	Factor	Actual FS	Limit @3m	Margin
MHz F	PK/QP/AVG	dBµV	dB	dBµV/m	dBµV/m	dB
2483.500 2483.500 2483.625	Average Peak Average	51.45 60.56 50.50	-3.54 -3.54 -3.54	47.91 57.02 46.96	54.00 74.00 54.00	-6.09 -16.98 -7.04
2483.625	Peak	61.50	-3.54	57.96	74.00	-16.04

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11.6.2 **Radiated Spurious Emission**

Report Number	:TERF2304000876E2	Test Site	:SAC G Chamber
Operation Mode	:BLE 1M	Test Date	:2023-04-19
Test Frequency	:2442 MHz	Temp./Humi.	:21.6/68
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:Temo Chen



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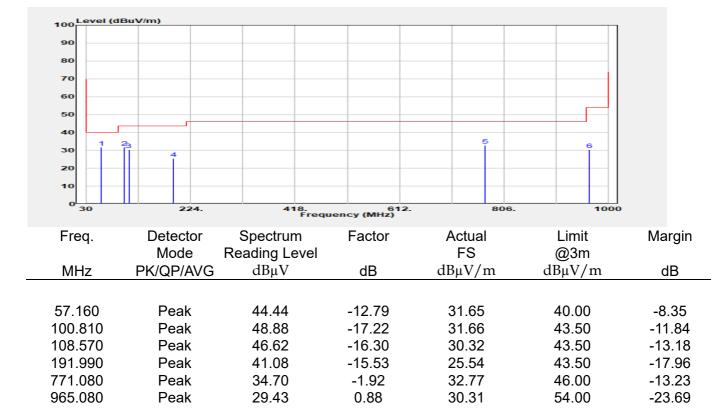
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Report Number	:TERF2304000876E2
Operation Mode	:BLE 1M
Test Frequency	:2442 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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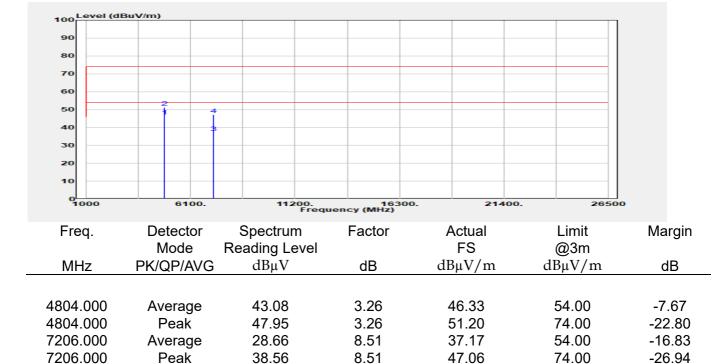
t (886-2) 2299-3279

f (886-2) 2298-0488



Report Number	:TERF2304000876E2
Operation Mode	:BLE 1M
Test Frequency	:2402 MHz
Test Mode	:Tx
EUT Pol	:H Plane

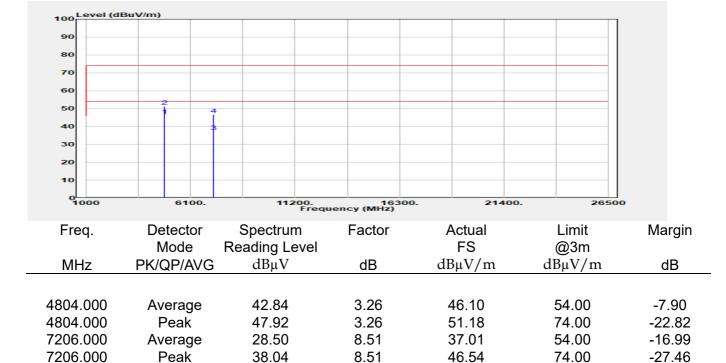
Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



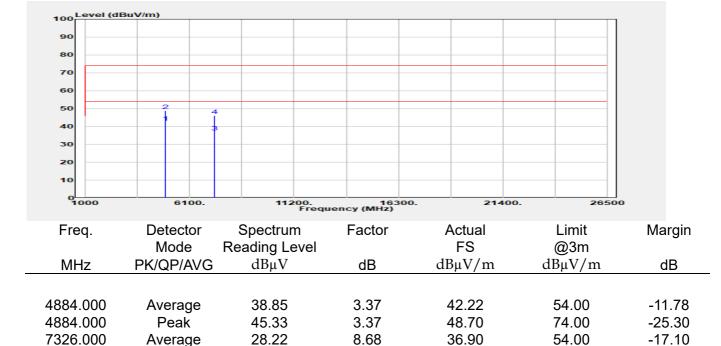
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:TERF2304000876E2
:BLE 1M
:2442 MHz
:Tx
:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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37.33

t (886-2) 2299-3279

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46.02

74.00

-27.98

7326.000

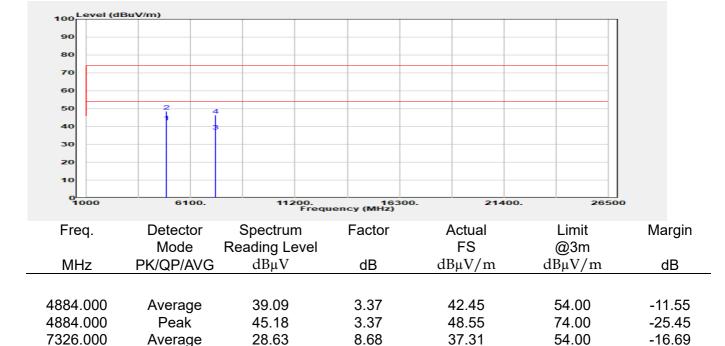
Peak

f (886-2) 2298-0488



:TERF2304000876E2
:BLE 1M
:2442 MHz
:Tx
:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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37.58

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46.26

74.00

-27.74

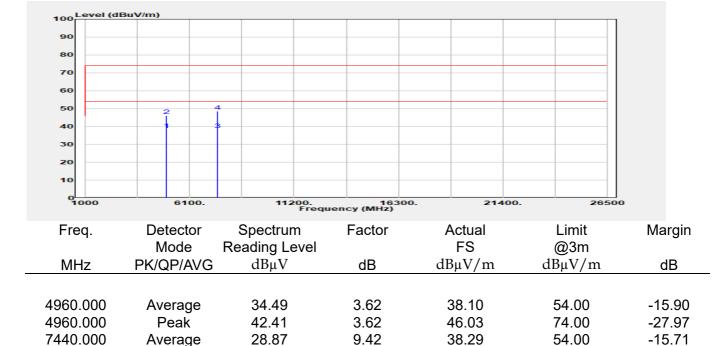
7326.000

Peak



Report Number	:TERF2304000876E2
Operation Mode	:BLE 1M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Vertical
Engineer	:Temo Chen



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38.99

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48.41

74.00

-25.59

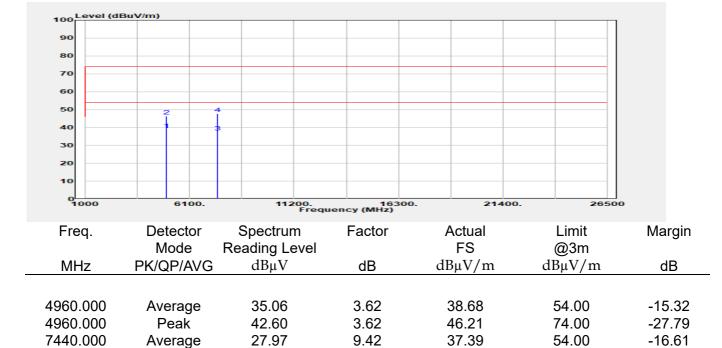
7440.000

Peak



:TERF2304000876E2
:BLE 1M
:2480 MHz
:Tx
:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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47.83

74.00

-26.17

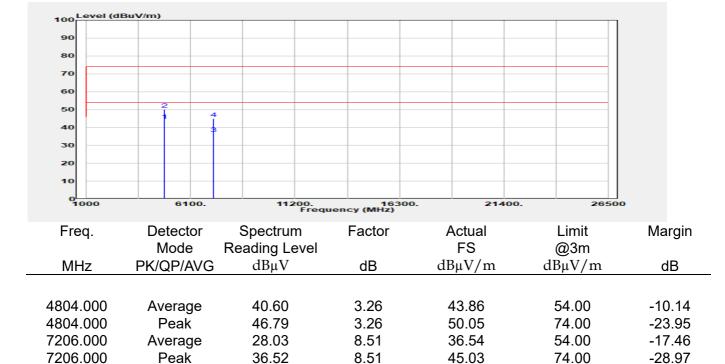
7440.000

Peak



RF2304000876E2
E 2M
02 MHz
Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Vertical
Engineer	:Temo Chen



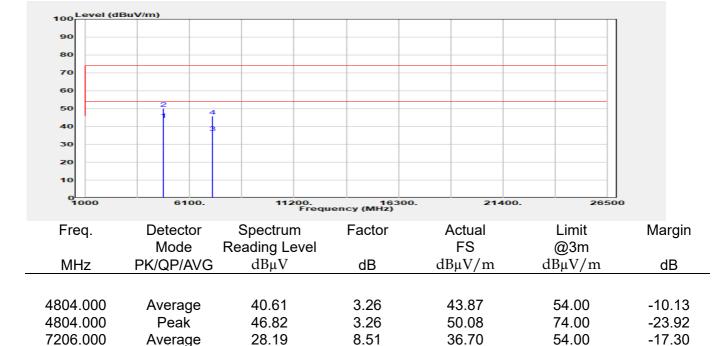
t (886-2) 2299-3279

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RF2304000876E2
E 2M
02 MHz
Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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37.23

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45.74

74.00

-28.26

7206.000

Peak



ERF2304000876E2
_E 2M
l42 MHz
(
Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Vertical
Engineer	:Temo Chen



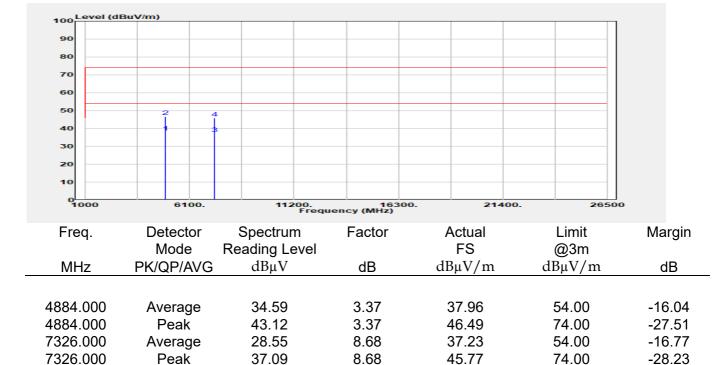
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:TERF2304000876E2
:BLE 2M
:2442 MHz
:Tx
:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-19
Temp./Humi.	:21.6/68
Antenna Pol.	:Horizontal
Engineer	:Temo Chen

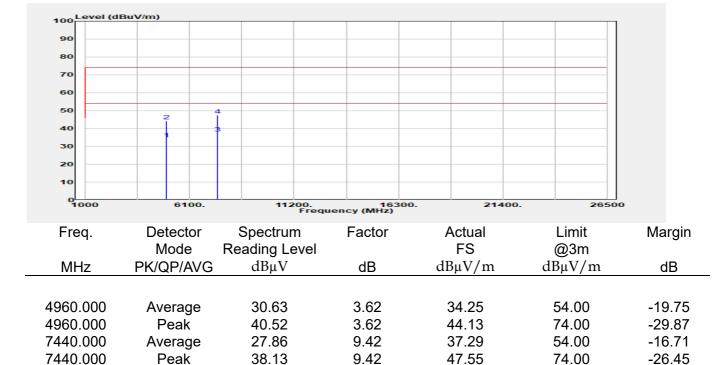


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00876E2
00

Test Site	:SAC G Chamber
Test Date	:2023-04-18
Temp./Humi.	:23.2/61
Antenna Pol.	:Vertical
Engineer	:Temo Chen



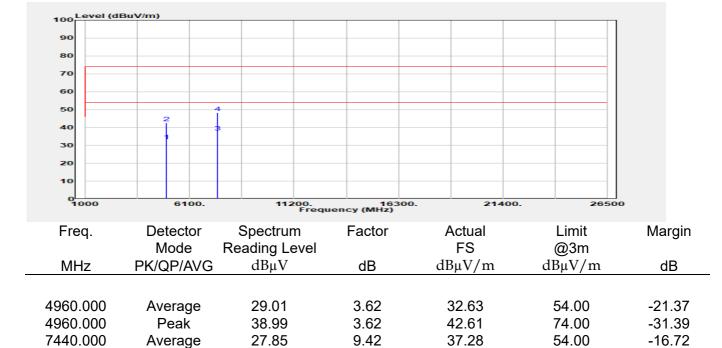
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Report Number	:TERF2304000876E2
Operation Mode	:BLE 2M
Test Frequency	:2480 MHz
Test Mode	:Tx
EUT Pol	:H Plane

Test Site	:SAC G Chamber
Test Date	:2023-04-18
Temp./Humi.	:23.2/61
Antenna Pol.	:Horizontal
Engineer	:Temo Chen



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38.73

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48.15

74.00

-25.85

7440.000

Peak

f (886-2) 2298-0488

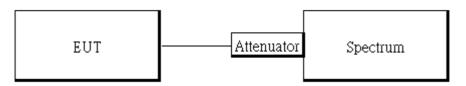


12 POWER SPECTRAL DENSITY

12.1 **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.

12.2 **Test Setup**



12.3 **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.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

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12.4 **Measurement Result:**

BLE 1M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-11.01	8	PASS
2442	-10.94	8	PASS
2480	-11.03	8	PASS

NOTE: cable loss as 10.5dB that offsets in the spectrum

BLE 2M mode

Frequency (MHz)	RF Power Density (dBm/3kHz)	Maximum Limit (dBm/3kHz)	Result
2402	-14.58	8	PASS
2442	-14.44	8	PASS
2480	-14.64	8	PASS

NOTE: cable loss as 10.5dB that offsets in the spectrum

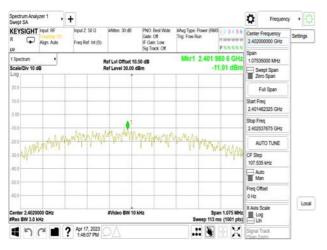
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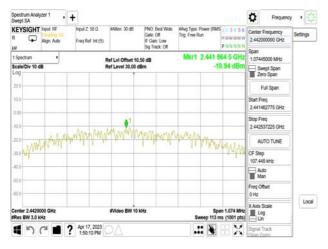
Report No.: TERF2304000876E2 Page: 60 of 62



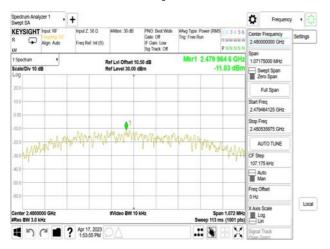
PSD_BLE 1M_LowCH00-2402MHz



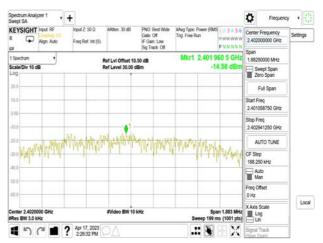
PSD BLE 1M MidCH20-2442MHz



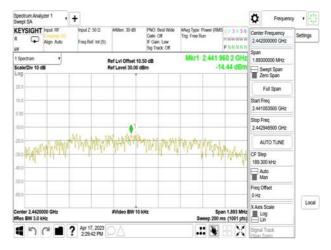
PSD_BLE 1M_HighCH39-2480MHz



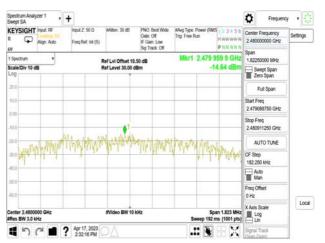
PSD_BLE 2M_LowCH00-2402MHz



PSD BLE 2M MidCH20-2442MHz







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No.134,Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號 SGS Taiwan Ltd.

f (886-2) 2298-0488

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13 ANTENNA REQUIREMENT

13.1 Standard Applicable:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

13.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

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14 PHOTOGRAPHS OF SET UP

Please refer to "FCC_Setup Photo_(TERF2304000875~76E2-P)".

15 PHOTOGRAPHS OF EUT

Please refer to "EUT Photo_(TERF2304000875~76E2-P)".

~ End of Report ~

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SGS Taiwan Ltd. No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan/新北市五股區新北產業園區五工路 134 號