



ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT





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Applicant: Qualcomm Technologies, Inc.

5775 Morehouse Drive, San Diego, CA 92121-1714, United

States

Manufacturer: Qualcomm Technologies, Inc.

5775 Morehouse Drive, San Diego, CA 92121-1714, United

States

Product Name: Tri-Radio LGA Module for IoT applications

Brand Name: Qualcomm

Model No.: QCC743M-1

Report Number: TERF2501000460ER

FCC ID J9C-QCC743M1

Date of EUT Received: January 20, 2025

Date of Test: January 20, 2025 ∼ May 5, 2025

Issue Date: June 20, 2025

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 C63.10:2020 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	
TERF2501000460ER	00	Original	Jun. 20, 2025	Candice Li		

Note:

- 1 . The remark "*" indicates modification of the report upon requests from certification
- 2 · Variant information of HW SKU 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 **Product Description**

Product Name:	Tri-Radio LGA Module for IoT applications
Brand Name:	Qualcomm
Model No.:	QCC743M-1
HW SKU	QCC743M-1B, QCC743M-1U, QCC743M-1P
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	02B102149C007B
Power Supply:	3.3 Vdc from Battery
Test Software (Name/Version)	Qconn RCT /Version 1.8.9

1.2 **RF Specification**

Radio Technology:	BLE
Frequency Range:	2402 – 2480MHz
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	BLE 1M: 20.59 dBm BLE 2M: 20.71 dBm BLE 125k: 13.74 dBm BLE 500k: 13.74 dBm

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HW SKU Difference Table

HW SKU	QCC743M-1B	QCC743M-1U	QCC743M-1P
Antenna type	1 type: PIFA (for PCB printed antenna)	3 types: PIFA, Monopole, Dipole (for antenna con- nector on board)	3 types: PIFA, Monopole, Dipole (for SiP module. It has RF pad connect to external PCB which has PCB ANT or RF connect- or)
RF connector	Switch connector	MHF4 connector	No
PCB dimension	12.28*17.28mm	12.28*12.28mm	12.28*12.28mm

Note: The QCC743M-1U, QCC743M-1B, and QCC743M-1P modules are designed to support two crystals (40 MHz and 32.768 kHz). However, depending on the hardware configuration, the modules may be shipped with either two crystals (40 MHz and 32.768 kHz) or only one crystal (40 MHz).

1.4 **Antenna Designation**

Antenna Type	Antenna Part No.	Freq.	Peak Antenna Gain (dBi)
PIFA Antenna	QCC743M-1B		2.49
PIFA Antenna	RFPCA441010EMABY01	2.4011-	3.19
Monopole Antenna	RFPCA501010EMABY01	2.4GHz	3.12
Dipole Antenna	RFPCA521010EMABY01		3.37

Note:

- Pre-scanned was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.
- The antenna information is provided by the applicant, and the laboratory shall not be 2. held liable for the accuracy, completeness, or reliability of any applicant-supplied data.

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1.5 **Test Methodology of Applied Standards**

FCC Part 15, Subpart C §15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2020

Test Facility 1.6

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB
		SAC 1		
		SAC 2		
		SAC 3		
	No 424 My Kung Dood Now Toingi	Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1	TW0027	TW3702
	Industrial Park, Wuku District, New Taipei City, Taiwan.	Conducted 2	1 00027	
	raiper City, Taiwari.	Conducted 3		
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction C	-	
(TAF code 3702)		SAC C		
		SAC D		
		SAC G		
	No.2, Keji 1st Rd., Guishan District,	Conducted A		
	Taoyuan City, Taiwan 333	Conducted B	TW0028	
	radyddir Oxy, raiwan ddo	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.

Temperature:	17-23	°C	Relative Humidity:	47-71	%
Test site	Conducted 2		Test Start:	01/22	/2025
Test Engineer:	Dannis Chen		Test Done:	05/05	/2025

1.7 **Special Accessories**

There are no special accessories used while test was conducted.

1.8 **Equipment Modifications**

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 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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Measurement Results Explanation Example

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

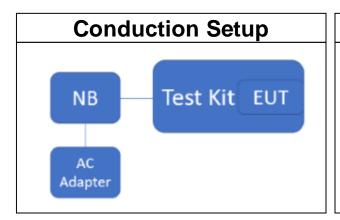
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

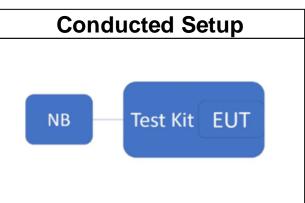
There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

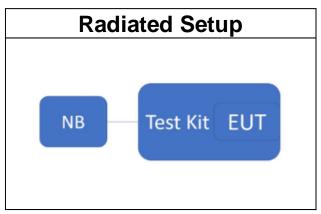
2.4.2 For all conducted test items:

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

2.5 **Test Configuration**







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Control Unit(s)

	AC Power-Line Conducted Emission Test Site: Conduction 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)	
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A	
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A	
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A	
AC Adapter	HP	TPN-LA16	N/A	N/A	N/A	

	Conducted Emission Test Site: Conducted 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)	
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A	
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A	
Notebook	Lenovo	T440P	PB-02Y6RK 14/07	N/A	N/A	

Radiated Emission Test Site: SAC 3					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
QCC743 carrier board	Fii	95.3562T00	N/A	N/A	N/A
USB3.0 to USB-C data cable	UGREEN	40888	N/A	N/A	N/A
Notebook	HP	HSN-Q35C-4	5CD2428X3N	N/A	N/A

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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) §15.209	Conducted Band Edge and Spurious Emission	Compliant
§15.247(d) §15.209	Radiated Spurious Emission	Compliant
§15.205	Restricted Bands	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**

2400~2483.5 MHz							
СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)	СН	Freq. (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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4.2 The Worst Test Modes and Channel Details

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

CONDUCTED TEST							
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			
Bluetooth LE	0 to 39	0,20,39	GFSK	0.125			
Bluetooth LE	0 to 39	0,20,39	GFSK	0.5			

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)				
Bluetooth LE	0 to 39	20	GFSK	1				
	TRANSMIT RADIATED EMISSION TEST (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				
Bluetooth LE	0 to 39	0,20,39	GFSK	0.125				
Bluetooth LE	0 to 39	0,20,39	GFSK	0.5				

Note:

- 1. The field strength of radiated 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.
- 2. Radiated test was done with 50ohm terminator on antenna port.

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MEASUREMENT UNCERTAINTY

Test Items	Ur	ncertaint	:y
AC Power Line Conducted Emission	+/-	1.54	dB
Output Power measurement	+/-	0.97	dB
Emission Bandwidth	+/-	1.38	Hz
Conducted emission measurement	+/-	0.77	dB
Peak Power Density	+/-	0.61	dB
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty						
	+/-	1.89	dB	9kHz~30MHz		
Polarization: Vertical	+/-	4.1	dB	30MHz - 1000MHz		
Folarization. Vertical	+/-	3.37	dB	1GHz - 18GHz		
	+/-	3.83	dB	18GHz - 40GHz		
	+/-	1.89	dB	9kHz~30MHz		
Polarization: Horizontal	+/-	4.1	dB	30MHz - 1000MHz		
Polarization. Horizontal	+/-	3.37	dB	1GHz - 18GHz		
	+/-	3.83	dB	18GHz - 40GHz		
	+/-	2	dB	33GHz-50GHz		
	+/-	1.59	dB	50GHz-60GHz		
Radiated Spurious Emission	+/-	1.71	dB	60GHz-90GHz		
	+/-	1.64	dB	90GHz-140GHz		
	+/-	3.84	dB	140GHz-220GHz		

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

6.1 **Emission from AC power line**

AC Power-Line Conducted Emission Test Site: Conduction 1							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)		
Coaxial Cables	EMC Instruments Corp.	EMCCFD300-BM- BM-3000	161207	06/22/2024	06/21/2025		
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025		
LISN	SCHWARZBECK	NSLK 8127	1040	09/07/2024	09/06/2025		
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	793	06/22/2024	06/21/2025		
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R		

6.2 **Conducted Measurement**

Conducted Emission Test Site: Conducted 2							
EQUIPMENT TYPE	MFR MODEL NUMB		SERIAL NUMBER	LAST CAL.	CAL DUE.		
				(mm/dd/yyyy)	(mm/dd/yyyy)		
Attenuator	Mini-Circuits	BW-S10W2+	4	12/11/2024	12/10/2025		
DC Block	Mini-Circuits	BLK-18-S+	31129	12/11/2024	12/10/2025		
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025		
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025		
Power Meter	Anritsu	ML2496A	2138003	10/09/2024	10/08/2025		
Power Sensor	Anritsu	MA2411B	1911393	10/09/2024	10/08/2025		
Power Sensor	Anritsu	MA2411B	1911394	10/09/2024	10/08/2025		
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R		

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6.3 **Radiated Measurement**

Radiated Emission Test Site: SAC 3							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)		
4G High Pass Filter	WI	WHKX4.0	22	12/11/2024	12/10/2025		
Attenuator	Mini-Circuits	BW-S10W2+	16	12/11/2024	12/10/2025		
Band Reject Filter 2400-2483.5	EWT	EWT-14-0166	M3	12/11/2024	12/10/2025		
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/09/2024	08/08/2025		
Coaxial Cables	EMCI+Huber Suhner	EMC107-SM-SM- 1000 +SUCOFLEX 104PEA +EMC107-SM-SM- 1500 +SUCOFLEX 106	RX Cable 9K-18G (221110+MY4251/4P EA+221106+76096/6)	08/30/2024	08/29/2025		
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	08/30/2024	08/29/2025		
EMI Test Receiver	R&S	ESCI 7	100759	08/28/2024	08/27/2025		
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071541	07/08/2024	07/07/2025		
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	07/10/2024	07/09/2025		
Horn Antenna	SCHWARZBECK	BBHA9120D	1441	09/23/2024	09/22/2025		
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025		
Pre-Amplifier	EMCI	EMC118A45SEE	980868	08/30/2024	08/29/2025		
Pre-Amplifier	EMCI	EMC184045SEE	9080939	08/30/2024	08/29/2025		
Pre-Amplifier	HP	8447D	2944A07676	08/30/2024	08/29/2025		
Site Cal	SGS	SAC 3	N/A	08/30/2024	08/29/2025		
SMA Termination	RF Microwave WOKEN	WTER-18S2	N/A	N/A	N/A		
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R		

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

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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		

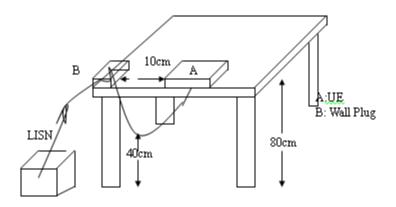
Note

- 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**



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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:**

Note1: 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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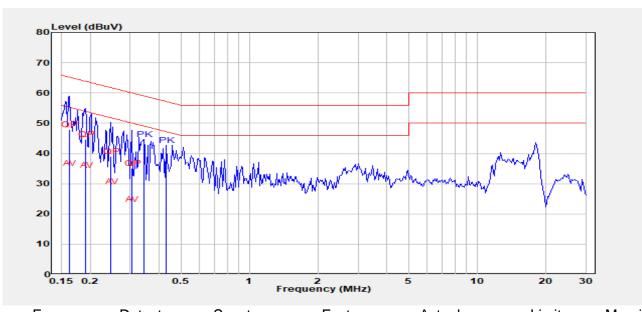
AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :TERF2501000460ER Test Site :Conduction 1

Operation Mode :BLE Test Date :2025-02-13

Power :120V/60Hz Temp./Humi. :21.3°C/61%

Probe :L Engineer :Nick Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
MHz	PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
0.162	Average	25.07	10.13	35.20	55.38	-20.18
0.162	QP	37.73	10.13	47.86	65.38	-17.52
0.191	Average	24.33	10.13	34.46	53.98	-19.52
0.191	QP	34.47	10.13	44.60	63.98	-19.38
0.247	Average	18.82	10.14	28.96	51.86	-22.91
0.247	QP	28.97	10.14	39.11	61.86	-22.76
0.305	Average	13.11	10.14	23.25	50.10	-26.85
0.305	QP	24.98	10.14	35.12	60.10	-24.98
0.343	Peak	34.47	10.15	44.61	59.13	-14.52
0.433	Peak	32.66	10.16	42.82	57.20	-14.38

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:Conduction 1

:2025-02-13

Test Site

Test Date



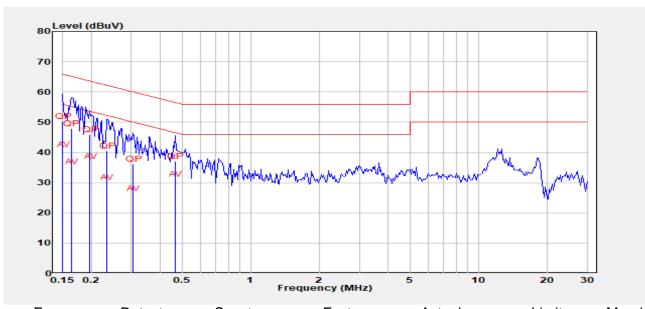
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Report Number :TERF2501000460ER

Operation Mode :BLE

Power :120V/60Hz Temp./Humi. :21.3°C/61%

Probe :N Engineer :Nick Lin



Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit	Margin
PK/QP/AV	dΒμV	dB	dΒμV	dΒμV	dB
Average	30.91	10.12	41.03	56.00	-14.97
QP	40.07	10.12	50.19	66.00	-15.81
Average	25.23	10.12	35.35	55.30	-19.95
QP	37.88	10.12	48.00	65.30	-17.30
Average	26.88	10.12	37.00	53.71	-16.71
QP	35.93	10.12	46.05	63.71	-17.66
Average	19.91	10.13	30.04	52.30	-22.27
QP	30.44	10.13	40.57	62.30	-21.74
Average	16.37	10.14	26.51	50.10	-23.59
QP	26.17	10.14	36.31	60.10	-23.79
Average	21.01	10.16	31.17	46.58	-15.41
QP	26.93	10.16	37.09	56.58	-19.49
	Mode PK/QP/AV Average QP Average QP Average QP Average QP Average QP Average QP Average	Mode PK/QP/AV Reading Level dBμV Average QP 30.91 Average Average QP 25.23 QP 37.88 Average Average QP 35.93 Average Average QP 30.44 Average QP 26.17 Average QP 26.17 Average QP 21.01	Mode PK/QP/AV Reading Level dBμV dB Average QP 30.91 10.12 QP 40.07 10.12 Average 25.23 10.12 QP 37.88 10.12 Average 26.88 10.12 QP 35.93 10.12 Average 19.91 10.13 QP 30.44 10.13 Average 16.37 10.14 QP 26.17 10.14 Average 21.01 10.16	Mode PK/QP/AVReading Level dBμVFS dBμVAverage 30.91 10.12 41.03 QP 40.07 10.12 50.19 Average 25.23 10.12 35.35 QP 37.88 10.12 48.00 Average 26.88 10.12 37.00 QP 35.93 10.12 46.05 Average 19.91 10.13 30.04 QP 30.44 10.13 40.57 Average 16.37 10.14 26.51 QP 26.17 10.14 36.31 Average 21.01 10.16 31.17	Mode PK/QP/AV Reading Level dB μV FS dB μV dB μV

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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable:

8.1.1 **Duty Cycle**

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.

8.1.2 **FCC**

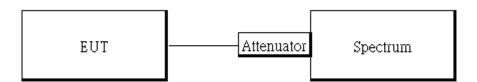
For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

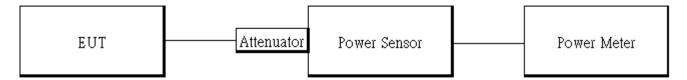
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

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.
- The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.
- Record the max. Reading as observed from Power Meter.
- Repeat above procedures until all test default channel measured was complete.

8.4 **Duty Factor:**

Mode	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
BLE 1M	62.40	2.05	2.56	3.00
BLE 2M	32.80	4.84	4.88	5.00
BLE 125k	82.67	0.83	0.32	1.00
BLE 500k	56.91	2.45	0.93	1.00

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BLE_1M_LowCH00-2402



BLE 2M LowCH00-2402



BLE_125k_LowCH00-2402



BLE 500k LowCH00-2402



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8.5 **Output Power:**

8.5.1 Peak & Avg

BLE 1M mode:

СН	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	20	20.58	30
20	2442	20	20.57	30
37	2476	20	20.59	30
38	2478	18	19.08	30
39	2480	12	12.28	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	20	20.39	30
20	2442	20	20.38	30
37	2476	20	20.39	30
38	2478	18	18.42	30
39	2480	12	12.23	30

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^{1.}Measured by power meter, cable loss 10.75 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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RIF 2M mode:

СН	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	20	20.68	30
20	2442	20	20.67	30
37	2476	20	20.71	30
38	2478	18	18.31	30
39	2480	11	11.31	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	20	20.36	30
20	2442	20	20.34	30
37	2476	20	20.40	30
38	2478	18	18.08	30
39	2480	11	11.04	30

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^{1.}Measured by power meter, cable loss 10.75 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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BLE 125k mode(Payload S=8):

СН	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	13	13.29	30
20	2442	13	13.74	30
39	2480	13	13.30	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	13	13.25	30
20	2442	13	13.68	30
39	2480	13	13.28	30

^{*}Note:

BLE 500k mode(Payload S=2):

СН	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	Required Limit (dBm)
0	2402	13	13.31	30
20	2442	13	13.74	30
38	2478	13	13.63	30
39	2480	12	12.27	30
СН	Frequency (MHz)	Power Setting	Avg. Output Power (dBm)	Required Limit (dBm)
0	2402	13	13.27	30
20	2442	13	13.70	30
38	2478	13	13.62	30
39	2480	12	12.07	30

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^{1.}Measured by power meter, cable loss 10.75 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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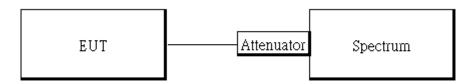


9 EMISSION BANDWIDTH MEASUREMENT

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 6dB BW 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.

9.3.2 99% BW measurements

- 1. The testing follows the Measurement Procedure of the RSS-Gen section 6.7.
- 2. Set the spectrum analyzer as

RBW = 1 % to 5% of 99%,

VBW ≥ 3 X RBW,

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

Sweep = auto, Detector = Peak, and Max hold.

- 3. Mark the upper and lower frequencies of 99%.
- 4. Repeat above procedures until all test default channel is completed.

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Measurement Result:

9.4.1 6dB BW measurements

BLE 1M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6949	≥ 0.5	PASS
2442	0.6923	≥ 0.5	PASS
2480	0.6975	≥ 0.5	PASS

BLE 2M mode

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	1.182	≥ 0.5	PASS
2442	1.184	≥ 0.5	PASS
2480	1.18	≥ 0.5	PASS

BLE 125k mode(Payload S=8)

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6809	≥ 0.5	PASS
2442	0.6802	≥ 0.5	PASS
2480	0.6815	≥ 0.5	PASS

BLE 500k mode(Payload S=2)

Frequency (MHz)	6dB BW (MHz)	Required BW (MHz)	Result
2402	0.6676	≥ 0.5	PASS
2442	0.6682	≥ 0.5	PASS
2480	0.6672	≥ 0.5	PASS

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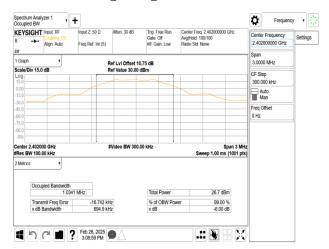
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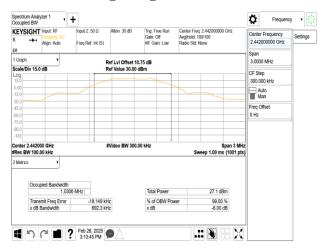
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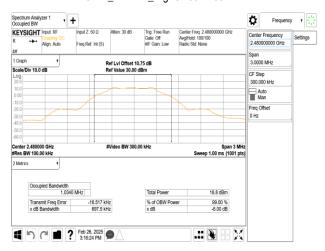
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OBW_BLE 1M_MidCH20-2442MHz



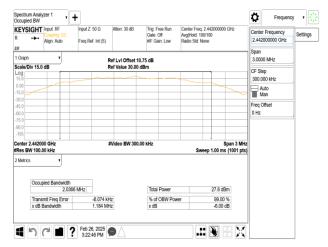
OBW_BLE 1M_HighCH39-2480MHz



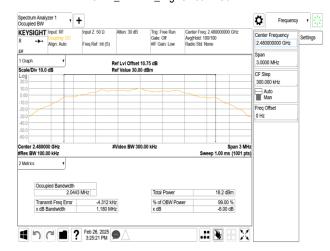
OBW_BLE 2M_LowCH00-2402MHz



OBW_BLE 2M_MidCH20-2442MHz



OBW_BLE 2M_HighCH39-2480MHz



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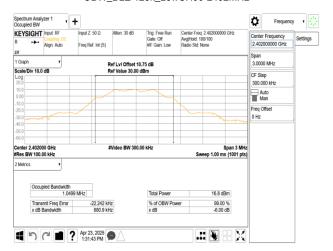
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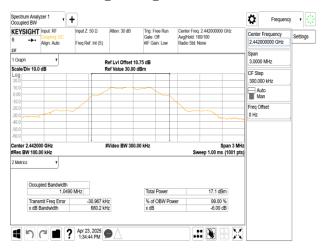
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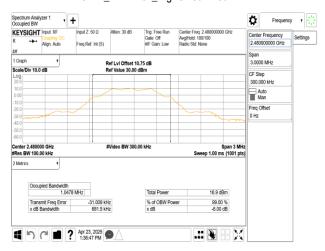
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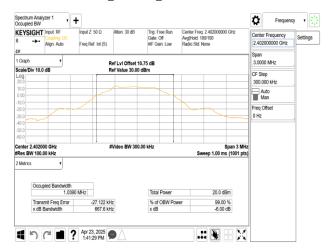
OBW_BLE 125k_MidCH20-2442MHz



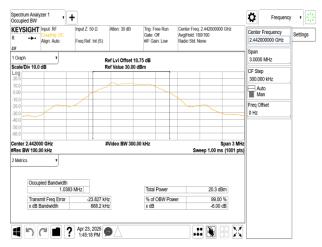
OBW_BLE 125k_HighCH39-2480MHz



OBW_BLE 500k_LowCH00-2402MHz



OBW_BLE 500k_MidCH20-2442MHz



OBW_BLE 500k_HighCH39-2480MHz



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99% Bandwidth

BLE 1M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.022
2442	1.017
2480	1.0184

BLE 2M mode

Frequency (MHz)	99%Bandwidth (MHz)
2402	2.0385
2442	2.0381
2480	2.045

BLE 125k mode(Payload S=8)

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0478
2442	1.0479
2480	1.0457

BLE 500k mode(Payload S=2)

Frequency (MHz)	99%Bandwidth (MHz)
2402	1.0152
2442	1.0144
2480	1.013

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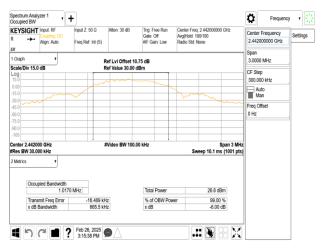
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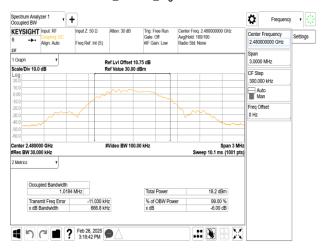
IC OBW_BLE 1M_LowCH00-2402MHz

Spectrum Analyzer 1 Occupied BW Frequency • ٥ KEYSIGHT Input: RF Atten: 30 dB Freq Ref: Int (S) Ref Lvi Offset 10.75 dB Ref Value 30.00 dBm 3.0000 MH Scale/Div 15.0 dB CF Ster 300.000 kHz Auto Man Freq Offset 0 Hz ep 10.1 ms (100 Metrics Occupied Bandwidth 1.0220 MHz % of OBW Power x dB ■ ? Feb 26, 2025 ■ ? Feb 26, 2025 ■ .# 👺 👭 💢

IC OBW_BLE 1M_MidCH20-2442MHz



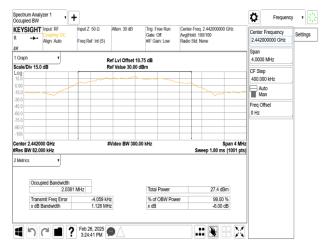
IC OBW_BLE 1M_HighCH39-2480MHz



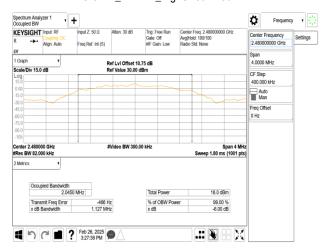
IC OBW_BLE 2M_LowCH00-2402MHz



IC OBW_BLE 2M_MidCH20-2442MHz



IC OBW_BLE 2M_HighCH39-2480MHz



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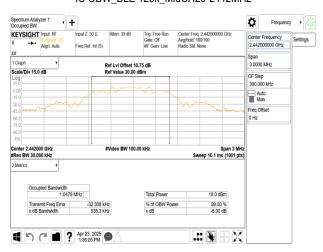
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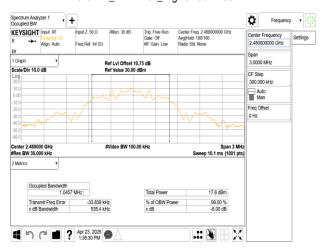
IC OBW_BLE 125k_LowCH00-2402MHz

ectrum Analyzer 1 ccupied BW Frequency • ٥ KEYSIGHT Input: RF Freq Ref: Int (S) Ref Lvi Offset 10.75 dB Ref Value 30.00 dBm 3.0000 MH Scale/Div 15.0 dB CF Ster 300.000 kHz Auto Man Freq Offset 0 Hz ep 10.1 ms (10 Metrics % of OBW Power x dB 4 9 P Apr 23, 2025 1:33:26 PM .# 👺 👭 💢

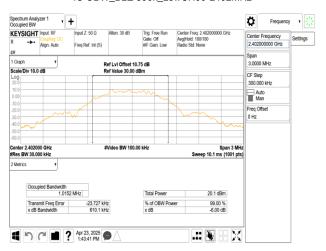
IC OBW BLE 125k MidCH20-2442MHz



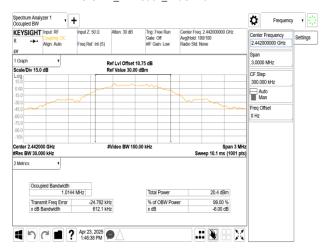
IC OBW_BLE 125k_HighCH39-2480MHz



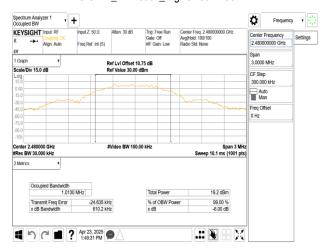
IC OBW_BLE 500k_LowCH00-2402MHz



IC OBW BLE 500k MidCH20-2442MHz



IC OBW_BLE 500k_HighCH39-2480MHz



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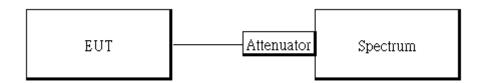
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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

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**

10.3.1 **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. Guidance.
- Set the span to 1.5 times the DTS channel bandwidth.
- Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.
- 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.

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Conducted Band Edge:

In any 100 kHz bandwidth outside the frequency band

- 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.
- 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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Measurement Result

BLE 1M Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	19.55	-0.45
2442	19.93	-0.07
2480	11.56	-8.44

*Note:

1.cable loss as 10.75dB that offsets in the spectrum 2. 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	19.42	-0.58
2442	19.83	-0.17
2480	10.41	-9.59

*Note:

1.cable loss as 10.75dB that offsets in the spectrum 2. Refer to next page for plots.

BLE 125k(Payload S=8)_Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	10.09	-9.91
2442	10.42	-9.58
2480	10.19	-9.81

*Note:

1.cable loss as 10.75dB that offsets in the spectrum 2. Refer to next page for plots.

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BLE 500k(Payload S=2) Reference Level of Limit

Frequency (MHz)	RF Power Density (dBm)	Reference Level of Limit = PSD - 20dB (dBm)
2402	13.33	-6.67
2442	13.73	-6.27
2480	12.47	-7.53

*Note:

1.cable loss as 10.75dB that offsets in the spectrum 2. Refer to next page for plots.

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Reference Level_BLE 1M_LowCH00-2402MHz

Spectrum Analyzer 1 Swept SA ٥ Frequency • KEYSIGHT Input: RF Align: Auto Freq Ref: Int (S) 2.401 985 4 GHz Ref Lvi Offset 10.75 dB Ref Level 30.00 dBm 1.04235000 MHz Scale/Div 10 dB 19.55 dB Swept Span Zero Span 2.401478825 GHz 2.402521175 GHz AUTO TUNE л- экер 104.235 kHz Auto Man Freq Offset 0 Hz Span 1.042 MHz Sweep 1.00 ms (1501 pts) ■ 9 Peb 26, 2025 ■ 3.09:33 PM Signal Trac

Reference Level_BLE 1M_MidCH20-2442MHz



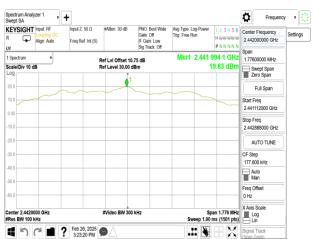
Reference Level_BLE 1M_HighCH39-2480MHz



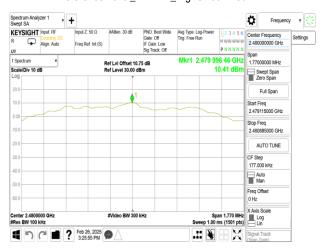
Reference Level_BLE 2M_LowCH00-2402MHz



Reference Level BLE 2M_MidCH20-2442MHz



Reference Level_BLE 2M_HighCH39-2480MHz



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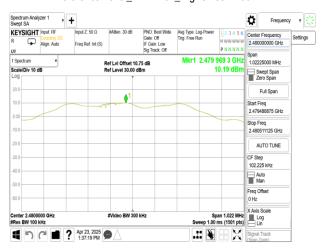
Reference Level_BLE 125k_LowCH00-2402MHz

Spectrum Analyzer 1 Swept SA ٥ KEYSIGHT Input: RF Align: Auto Freq Ref: Int (S) 2.401 972 8 GHz 1.02135000 MHz Ref Lvi Offset 10.75 dB Ref Level 30.00 dBm Scale/Div 10 dB 10.09 dB Swept Span Zero Span 2.401489325 GHz 2.402510675 GHz AUTO TUNE л- экер 102.135 kHz Auto Man Freq Offset 0 Hz Span 1.021 MHz Sweep 1.00 ms (1501 pts) 4 5 C 1 ? Apr 23, 2025 1:32:15 PM Signal Traci

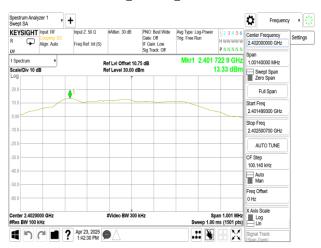
Reference Level BLE 125k MidCH20-2442MHz



Reference Level_BLE 125k_HighCH39-2480MHz



Reference Level_BLE 500k_LowCH00-2402MHz



Reference Level BLE 500k MidCH20-2442MHz



Reference Level_BLE 500k_HighCH39-2480MHz



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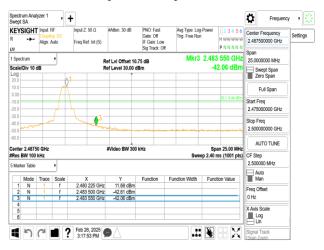
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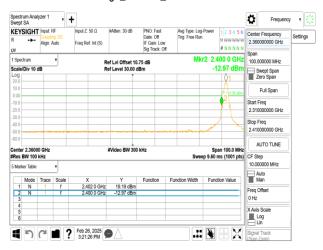
Band Edge_BLE 1M_LowCH00-2402MHz



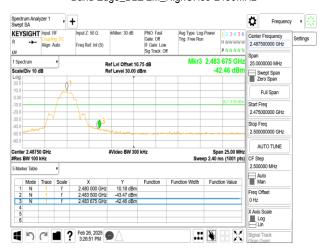
Band Edge_BLE 1M_HighCH39-2480MHz



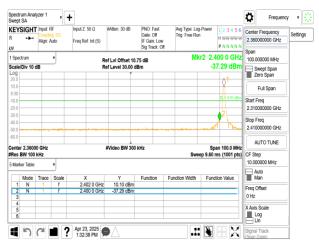
Band Edge_BLE 2M_LowCH00-2402MHz



Band Edge_BLE 2M_HighCH39-2480MHz



Band Edge_BLE 125k_LowCH00-2402MHz



Band Edge_BLE 125k_HighCH39-2480MHz



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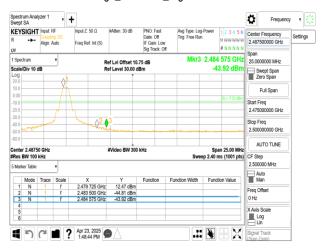
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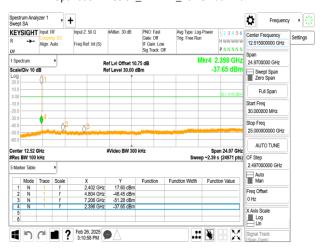
Band Edge_BLE 500k_LowCH00-2402MHz



Band Edge_BLE 500k_HighCH39-2480MHz



Spurious Emission_BLE 1M_LowCH00-2402MHz



Spurious Emission_BLE 1M_MidCH20-2442MHz



Spurious Emission_BLE 1M_HighCH39-2480MHz



Spurious Emission_BLE 2M_LowCH00-2402MHz



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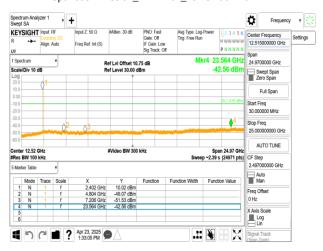
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Spurious Emission BLE 2M HighCH39-2480MHz



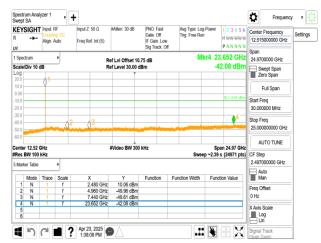
Spurious Emission_BLE 125k_LowCH00-2402MHz



Spurious Emission_BLE 125k_MidCH20-2442MHz



Spurious Emission BLE 125k HighCH39-2480MHz



Spurious Emission_BLE 500k_LowCH00-2402MHz



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Spurious Emission_BLE 500k_MidCH20-2442MHz



Spurious Emission_BLE 500k_HighCH39-2480MHz



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11 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.

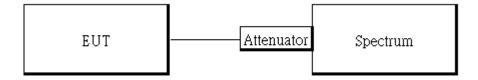
And according to §15.33(a) (1) for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

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.

11.2 **Test Setup**

11.2.1 **Bandedge & Emission**



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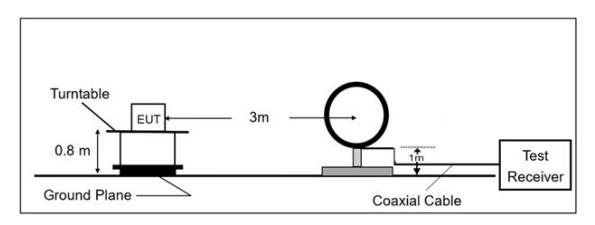
Report No.: TERF2501000460ER

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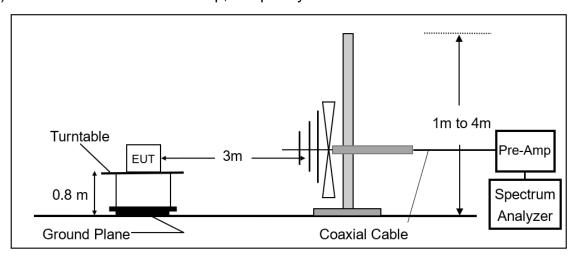


Radiated Spurious Emission 11.2.2

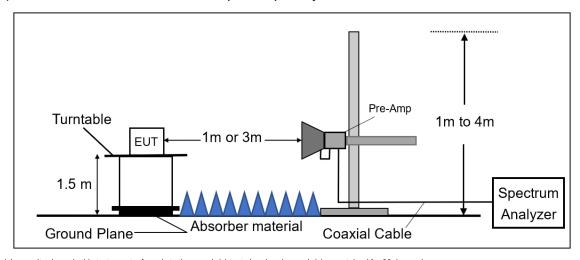
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(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

11.3.1 Bandedge measurements

- 1. Set the spectrum analyzer as RBW = 1 MHz, VBW = 3 MHz, Detector = Peak for Maximum Emission Measurements at frequency above 1 GHz, Sweep time = No faster than coupled (auto) time, Trace mode = max-hold, Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time and number of sweep points may be lengthened for low duty cycle applications.)
- 2. Set the spectrum analyzer as RBW = 100 KHz, VBW = 300KHz, Detector = RMS for Maximum Emission Measurements at frequency above 1 GHz, Sweep time = AUTO
- 3. Compute the power by integrating the spectrum over 1 MHz using the instrument's band-power measurement function with band limits set equal to the emission frequency (femission) \pm 0.5 MHz. If the spectrum analyzer does not have a band-power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission \pm 0.5 MHz.
- 4. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle.

11.3.2 Radiated Emissions measurements

- 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< 1 GHz and 1.5m for frequency> 1 GHz 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 30 MHz 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.

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- 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.

Field Strength Calculation

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

FS = RA + AF + CL - AG

Where FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts 20*log(uV/m)

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

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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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11.5.1 **CBE**

BLE 1M

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain (dBi)	EIRP (dBm)	Emission Level	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0		(dBuV/m)			
0	2402	-43.200	N/A	3.37	-39.83	55.37	-18.63	74	PK
U	2402	-58.438	2.05	3.37	-53.02	42.18	-11.82	54	AV
37	2476	-29.770	N/A	3.37	-26.40	68.80	-5.20	74	PK
31	2476	-55.887	2.05	3.37	-50.47	44.73	-9.27	54	AV
38	2478	-25.930	N/A	3.37	-22.56	72.64	-1.36	74	PK
30	24/0	-52.888	2.05	3.37	-47.47	47.73	-6.27	54	AV
39	2480	-25.120	N/A	3.37	-21.75	73.45	-0.55	74	PK
	2480	-55.022	2.05	3.37	-49.60	45.60	-8.40	54	AV

BLE 2M

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain (dBi)	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0					
0	2402	-43.120	N/A	3.37	-39.75	55.45	-18.55	74	PK
۰	2402	-57.901	4.84	3.37	-49.69	45.51	-8.49	54	AV
37	2476	-29.990	N/A	3.37	-26.62	68.58	-5.42	74	PK
31		-58.117	4.84	3.37	-49.91	45.29	-8.71	54	AV
38	2478	-25.430	N/A	3.37	-22.06	73.14	-0.86	74	PK
30	2410	-54.968	4.84	3.37	-46.76	48.44	-5.56	54	AV
39	2480	-25.360	N/A	3.37	-21.99	73.21	-0.79	74	PK
	2400	-56.322	4.84	3.37	-48.11	47.09	-6.91	54	AV

BLE 125K

Channel	Frequency (MHz)	Raw Value(dBm)	Duty factor (dB)	Antenna Peak Gain	EIRP (dBm)	Emission Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	
		Chain 0		Chain 0					
0	2402	-47.420	N/A	3.37	-44.05	51.15	-22.85	74	PK
	2402	-62.396	0.83	3.37	-58.20	37.00	-17.00	54	AV
39	2480	-25.160	N/A	3.37	-21.79	73.41	-0.59	74	PK
	2460	-54.972	0.83	3.37	-50.77	44.43	-9.57	54	AV

BLE 500K

Channel	Frequency	Raw Value(dBm)	Duty factor	Antenna Peak Gain	EIRP (dBm)	Emission Level (dBuV/m)	Margin	Limit (dBuV/m)	
	(MHz)	Chain 0	(dB)	Chain 0			(dB)		
0	2402	-47.330	N/A	3.37	-43.96	51.24	-22.76	74	PK
"	2402	-64.255	2.45	3.37	-58.44	36.77	-17.24	54	AV
38	2478	-30.570	N/A	3.37	-27.20	68.00	-6.00	74	PK
36	2470	-59.634	2.45	3.37	-53.81	41.39	-12.61	54	AV
39	2480	-25.550	N/A	3.37	-22.18	73.02	-0.98	74	PK
	2400	-56.370	2.45	3.37	-50.55	44.65	-9.35	54	AV

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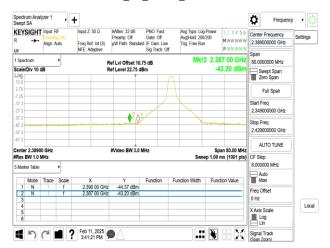


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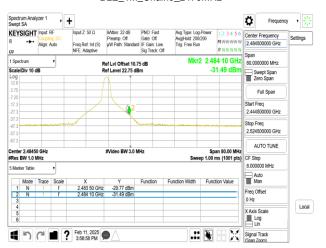


Peak

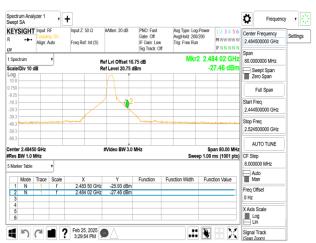
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BLE 1M Chain0 2476MHz



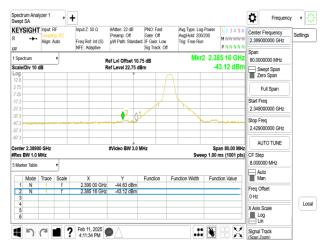
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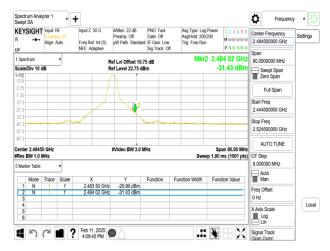
BLE_1M_Chain0_2480MHz



BLE 2M Chain0 2402MHz



BLE_2M_Chain0_2476MHz



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