RF MEASUREMENT REPORT

FCC ID:	Q9DAPIN0725
Applicant:	Hewlett Packard Enterprise Company
Product:	ACCESS POINT
Model No.:	APIN0725
Trademark:	Hewlett Packard Enterprise
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15 Subpart C (Section 15.247)
Result:	Complies
Received Date:	2024-12-20
Test Date:	2025-02-10 ~ 2025-03-03

Reviewed By: Jame Yuan

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

The test results relate only to the samples tested.
This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.
The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2412RSU035-U1	V01	Initial Report	2025-04-22	Valid

CONTENTS

Description Page

1. General Information 5

1.1. Applicant 5
1.2. Manufacturer 5
1.3. Testing Facility 5
1.4. Product Information 6
1.5. Radio Specification under Test 6
1.6. Working Frequencies 7

2. Test Configuration 8

2.1. Test Mode 8
2.2. Test System Connection Diagram 8
2.3. Test Software 9
2.4. Applied Standards 9
2.5. Test Environment Condition 9

3. Antenna Requirements 10

4. Measuring Instrument 11

5. Decision Rules and Measurement Uncertainty 12

5.1. Decision Rules 12
5.2. Measurement Uncertainty 12

6. Test Result 13

6.1. Summary 13
6.2. 6dB Bandwidth Measurement 14
6.2.1. Test Limit 14
6.2.2. Test Procedure 14
6.2.3. Test Setting 14
6.2.4. Test Setup 14
6.2.5. Test Result 14
6.3. Output Power Measurement 15
6.3.1. Test Limit 15
6.3.2. Test Procedure 15
6.3.3. Test Setting 15
6.3.4. Test Setup 15
6.3.5. Test Result 15
6.4. Power Spectral Density Measurement 16
6.4.1. Test Limit 16
6.4.2. Test Procedure 16

6.4.3. Test Setting 16
6.4.4. Test Setup 16
6.4.5. Test Result 16
6.5. Conducted Band Edge and Out-of-Band Emissions Measurement 17
6.5.1. Test Limit 17
6.5.2. Test Procedure 17
6.5.3. Test Settitng 17
6.5.4. Test Setup 17
6.5.5. Test Result 18
6.6. Radiated Spurious Emission Measurement 19
6.6.1. Test Limit 19
6.6.2. Test Procedure 19
6.6.3. Test Setting 19
6.6.4. Test Setup 21
6.6.5. Test Result 22
6.7. Radiated Restricted Band Edge Measurement 23
6.7.1. Test Limit 23
6.7.2. Test Procedure 24
6.7.3. Test Setting 24
6.7.4. Test Setup 25
6.7.5. Test Result 26
6.8. AC Conducted Emissions Measurement 27
6.8.1. Test Limit 27
6.8.2. Test Setup 27
6.8.3. Test Result 27

Appendix A - Test Result 28

A.1 Duty Cycle Test Result 28
A.2 6dB Bandwidth Test Result 30
A.3 Output Power Test Result 34
A.4 Power Spectral Density Test Result 39
A.5 Conducted Band Edge and Out-of-Band Emissions Test Result 43
A.6 Radiated Spurious Emission Test Result 57
A.7 Radiated Restricted Band Edge Test Result 71
A.8 AC Conducted Emissions Test Result 231

Appendix B - Test Setup Photograph 235

Appendix C - EUT Photograph 236

1. General Information

1.1. Applicant

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.2. Manufacturer

Hewlett Packard Enterprise Company

6280 America Center Drive, San Jose CA 95002, United States

1.3. Testing Facility

☒	**Test Site – MRT Suzhou Laboratory**
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China **Laboratory Location (Suzhou - SIP)** 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China **Laboratory Location (Suzhou - Wujiang)** Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐R-20025 ☐G-20034 ☐C-20020 ☐T-20020 ☐R-20141 ☐G-20134 ☐C-20103 ☐T-20104
☐	**Test Site – MRT Shenzhen Laboratory**
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	**Test Site – MRT Taiwan Laboratory**
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	ACCESS POINT
Model No.	APIN0725
Serial No.	CNT4MPP016 (Conducted) CNT4MPP00W (Radiated)
Software Version	BCM4711A0 fcbga_bu [Baseline: 0057]
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Bluetooth Specification	BLE only
Antenna Information	Refer to Section 1.5
Power Type	PoE Input
Operating Temperature	0 ~ 50 °C
Operating Environment	Indoor Use
Accessory	
PoE Injector	Model: ADH-30CR BB Input: 100-240V ~ 1.0A, 50-60Hz Output: 55.0V, 0.55A 30.25W
Remark: 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2. PoE Injector is not sold with Product.	

1.5. Radio Specification under Test

Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	PIFA Antenna (Core 0) Dipole Antenna (Core 1)
Antenna Gain	3.58dBi (Core 0) 4.95dBi (Core 1)

1.6. Working Frequencies

Channel	Frequency	Channel	Frequency	Channel	Frequency
00	2402 MHz	01	2404 MHz	02	2406 MHz
03	2408 MHz	04	2410 MHz	05	2412 MHz
06	2414 MHz	07	2416 MHz	08	2418 MHz
09	2420 MHz	10	2422 MHz	11	2424 MHz
12	2426 MHz	13	2428 MHz	14	2430 MHz
15	2432 MHz	16	2434 MHz	17	2436 MHz
18	2438 MHz	19	2440 MHz	20	2442 MHz
21	2444 MHz	22	2446 MHz	23	2448 MHz
24	2450 MHz	25	2452 MHz	26	2454 MHz
27	2456 MHz	28	2458 MHz	29	2460 MHz
30	2462 MHz	31	2464 MHz	32	2466 MHz
33	2468 MHz	34	2470 MHz	35	2472 MHz
36	2474 MHz	37	2476 MHz	38	2478 MHz
39	2480 MHz	--	--	--	--

2. Test Configuration

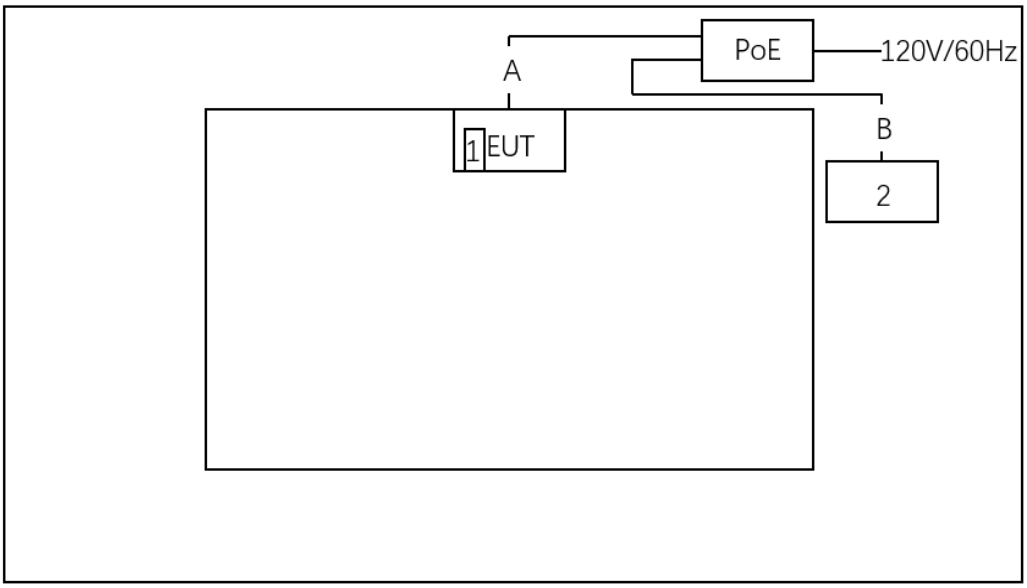
2.1. Test Mode

Mode 1: Transmit at Core 0 Port
Mode 2: Transmit at Core 1 Port
Mode 3: Transmit at Core 0 Port and Core 1 Port
Note: For simultaneous transmissions, measurements were performed in two ways. (1) with the cores set to the same output power setting, and (2) with priority of setting core 1 set to the highest compliant power in combination with core 0.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram



No.	Cable Type	Cable Spec.	Length
A	Ethernet Cable	Non-Shielded, Cat 6	>10.0m
B	Ethernet Cable	Non-Shielded, Cat 6	1.2m
No.	Product	Manufacturer	Model No.
1	USB Flash	SanDisk	16G
2	Notebook	DELL	Latitude 5491

2.3. Test Software

The test utility software used during testing was “BlueTool”, and the version was 102.2.0.6.

2.4. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

2.5. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~75%RH

3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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 antenna of the device is **permanently attached.**
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Thermohygrometer	testo	608-H1	MRTSUE11330	1 year	2025-06-24	WJ-SR2
Shielding Room	TDK	WJ-SR2	MRTSUE07124	N/A	N/A	WJ-SR2
Signal Analyzer	Keysight	N9020B	MRTSUE07037	1 year	2025-09-03	WJ-SR2
USB Power Sensor	Keysight	U2021XA	MRTSUE07141	1 year	2025-03-23	WJ-SR2
Attenuator	MVE	MVE2213	MRTSUE11086	1 year	2025-06-05	WJ-SR2
TRILOG Broad Band Antenna	Schwarzbeck	VULB 9163	MRTSUE07097	1 year	2025-04-24	WJ-AC2
Preamplifier	EMCI	EMC118A45SE	MRTSUE07102	1 year	2025-04-11	WJ-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE07103	1 year	2025-04-14	WJ-AC2
Horn Antenna	RFSPIN	DRH18-E	MRTSUE07105	1 year	2025-05-12	WJ-AC2
Anechoic Chamber	TDK	WJ-AC2	MRTSUE07117	1 year	2025-05-14	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11315	1 year	2025-06-24	WJ-AC2
Thermohygrometer	testo	608-H1	MRTSUE11332	1 year	2025-06-24	WJ-AC2
Active Loop Antenna	Schwarzbeck	FMZB 1519-60 D	MRTSUE07076	1 year	2025-11-19	WJ-AC2
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE07100	1 year	2025-04-24	WJ-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE07112	1 year	2025-04-21	WJ-SR5
Shielding Room	TDK	WJ-SR5	MRTSUE07127	N/A	N/A	WJ-SR5
Thermohygrometer	testo	608-H1	MRTSUE11317	1 year	2025-06-24	WJ-SR5
Two-Line V-Network	R&S	ENV216	MRTSUE07202	1 year	2025-05-26	WJ-SR5

Software	Version	Function
e3	230711	RE & CE
CONTROLLER CO3000	v 1.03.02	RE Antenna & Turntable
BenchVue Power Meter	2018.1	Power

5. Decision Rules and Measurement Uncertainty

5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.

(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

AC Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9kHz~150kHz: 3.02dB 150kHz~30MHz: 2.56dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Coaxial: 9kHz~30MHz: 2.35dB Coplanar: 9kHz~30MHz: 2.37dB Horizontal: 30MHz~200MHz: 3.46dB 200MHz~1GHz: 3.78dB 1GHz~40GHz: 4.97dB Vertical: 30MHz~200MHz: 4.07dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.78dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.3dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.5dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 2.6%

6. Test Result

6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

Notes:

1. The analyzer plots shown in this section were captured using a correction table to account for cable and attenuator losses in the system connecting the EUT to the analyzer across relevant frequencies.
2. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3. For dual BLE simultaneous transmitting, two radios could not work on the same channel declared by manufacturer.
   There are different power and channel combinations, detail see power table.

6.2. 6dB Bandwidth Measurement

6.2.1. Test Limit

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

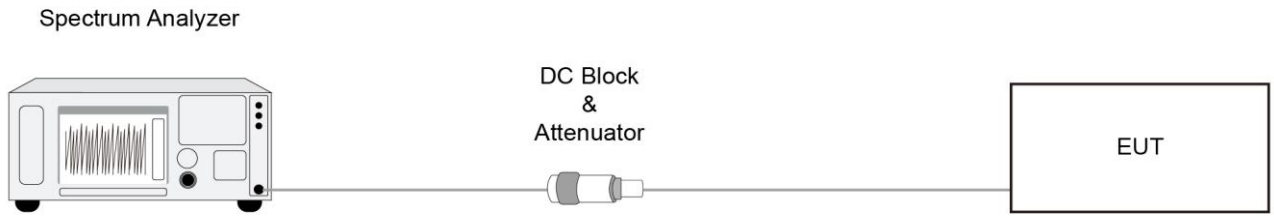
6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 6. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

6.2.4. Test Setup



6.2.5. Test Result

Refer to Appendix A.2.

6.3. Output Power Measurement

6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

6.3.3. Test Setting

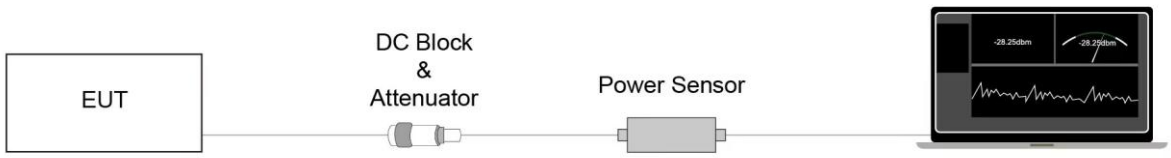
Method PKPM1 (Peak Power Measurement of Signals with DTS BW ≤ 50MHz)

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

Average Power Measurement

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

6.3.4. Test Setup



6.3.5. Test Result

Refer to Appendix A.3.

6.4. Power Spectral Density Measurement

6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

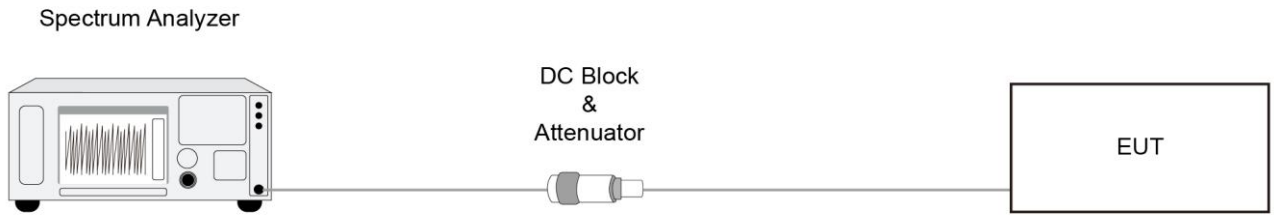
6.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.4.4. Test Setup



6.4.5. Test Result

Refer to Appendix A.4.

6.5. Conducted Band Edge and Out-of-Band Emissions Measurement

6.5.1. Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2. Test Procedure

ANSI C63.10-2013 - Section 11.11

6.5.3. Test Settitng

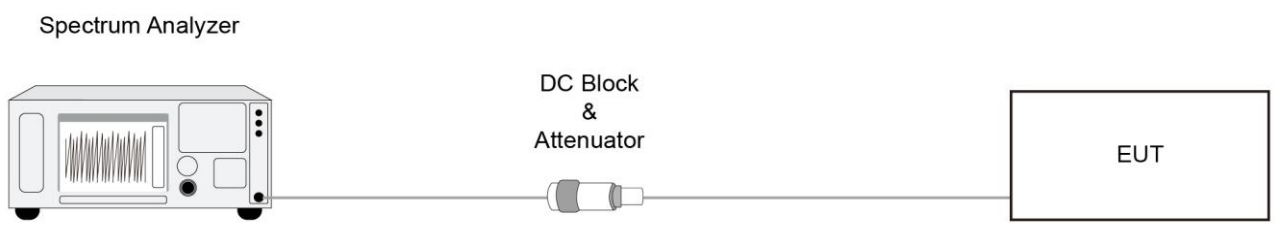
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4. Test Setup



6.5.5. Test Result

Refer to Appendix A.5.

6.6. Radiated Spurious Emission Measurement

6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured 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

6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

6.6.3. Test Setting

Table 1 - RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000MHz	1MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Sweep time = Auto couple
6. Trace mode = Max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

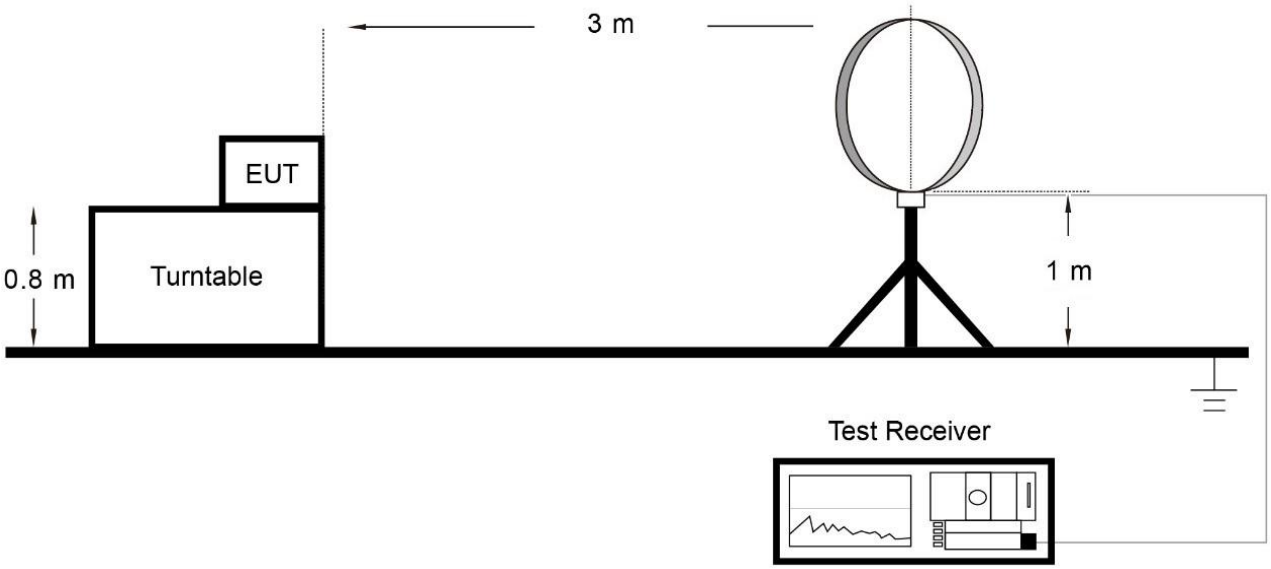
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; if the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10Hz

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

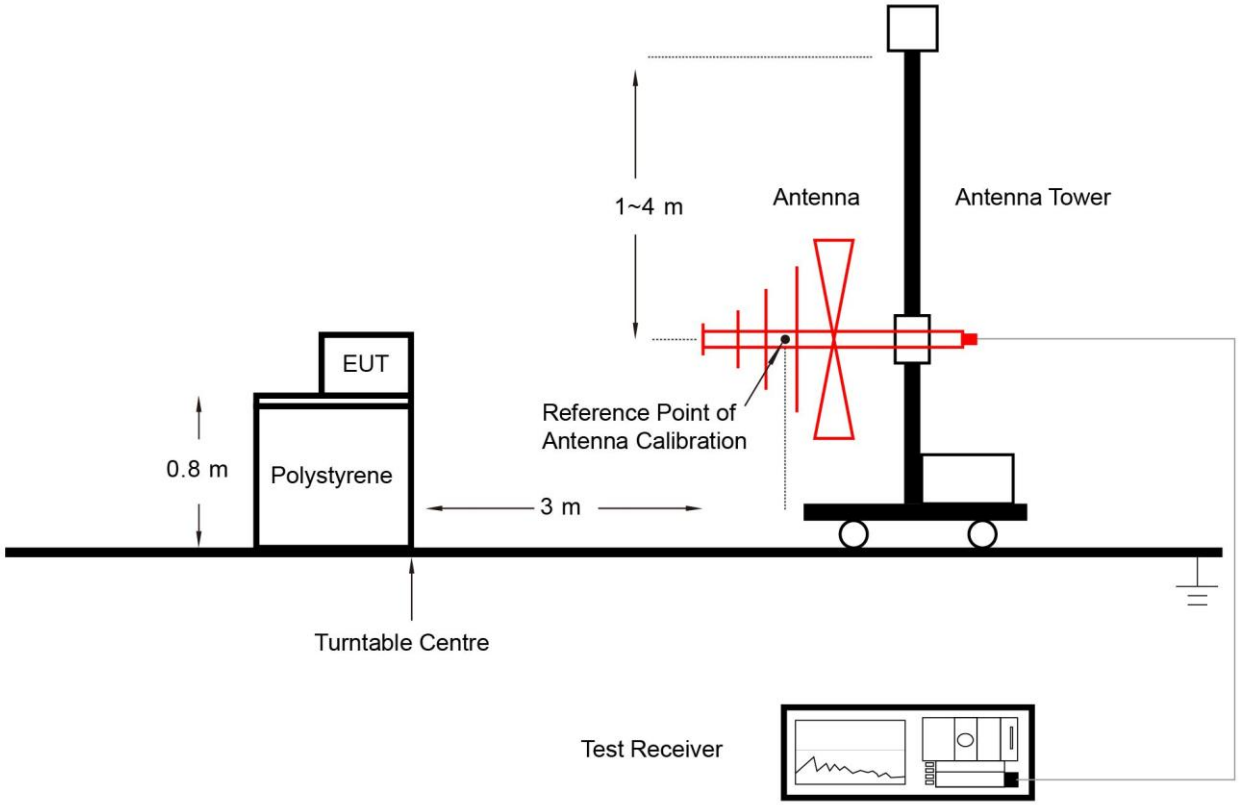
   (For 1Mbps, VBW = 2.7kHz; For 2Mbps, VBW = 5.1kHz)
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = Auto
7. Trace mode = Max hold
8. Trace was allowed to stabilize

6.6.4. Test Setup

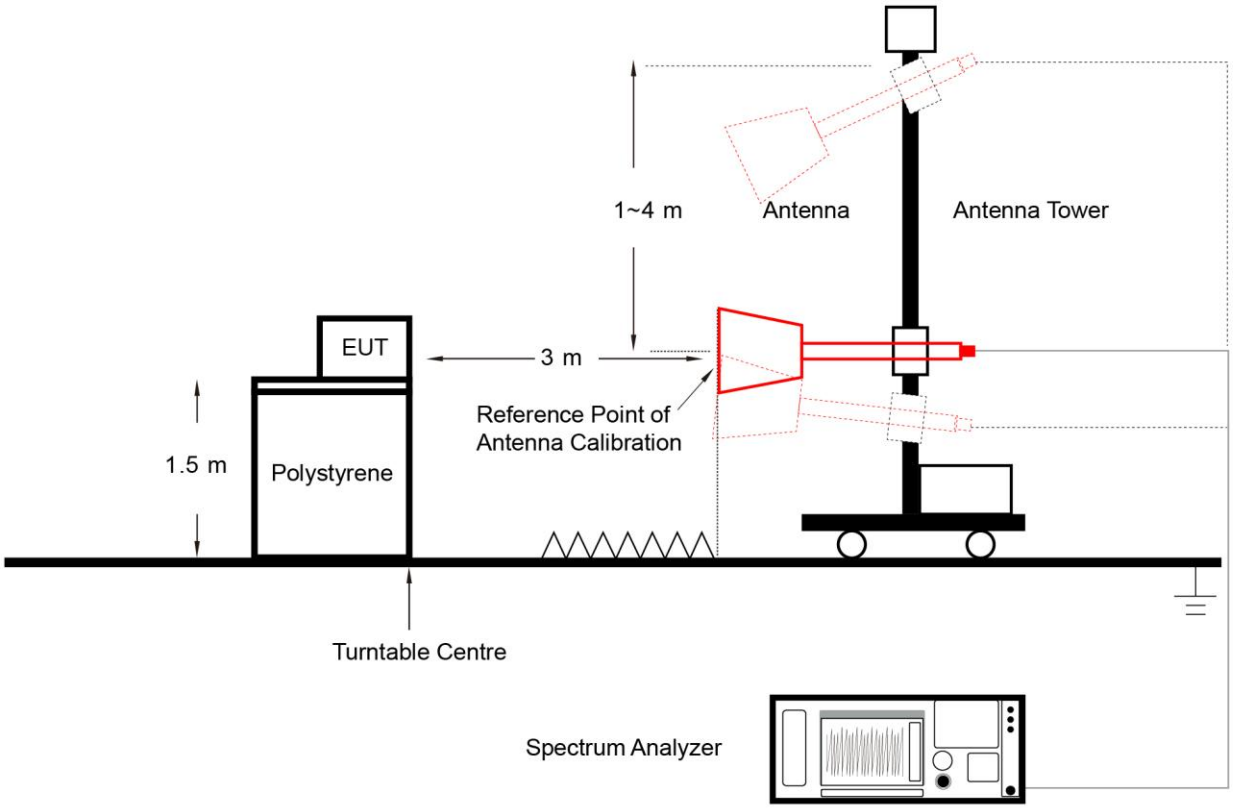
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.6.5. Test Result

Refer to Appendix A.6.

6.7. Radiated Restricted Band Edge Measurement

6.7.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1] 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [μV/m]	Measured 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

6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

6.7.3. Test Setting

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

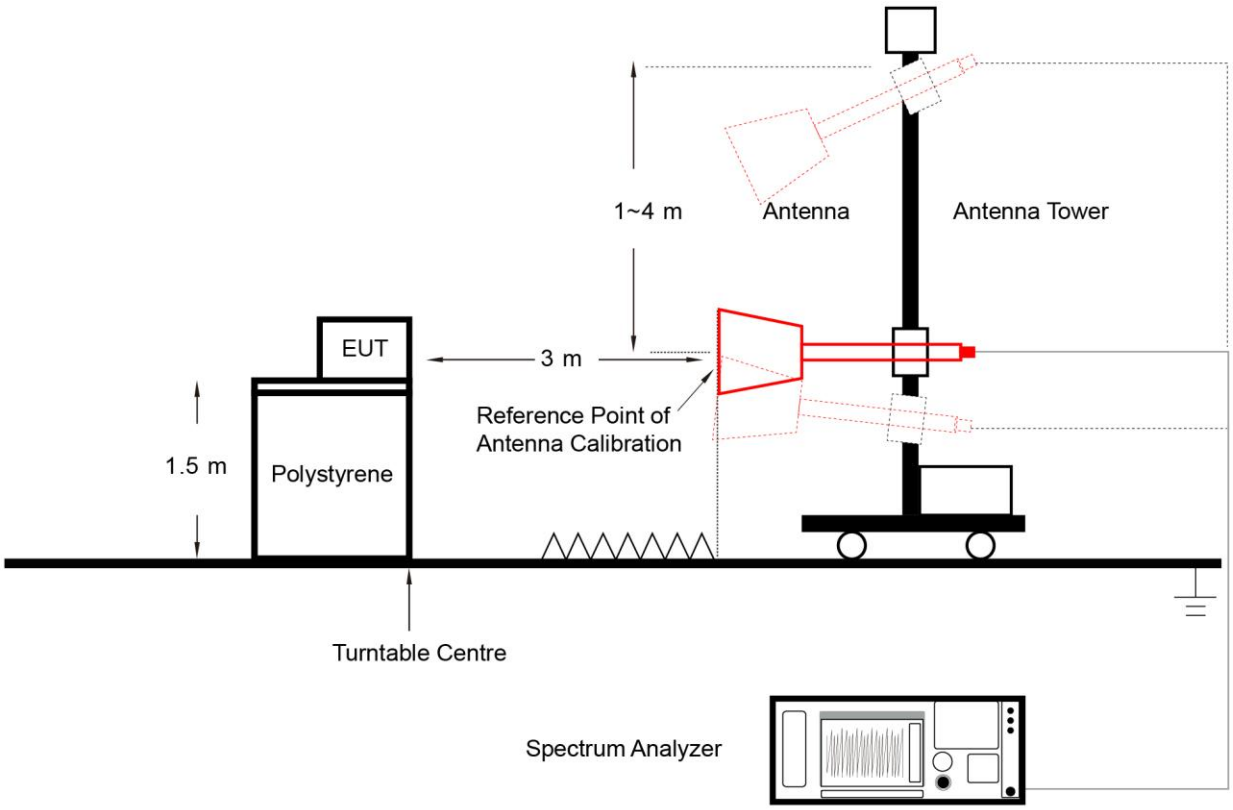
Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.

   (For 1Mbps, VBW = 2.7kHz; For 2Mbps, VBW = 5.1kHz)
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

6.7.4. Test Setup



6.7.5. Test Result

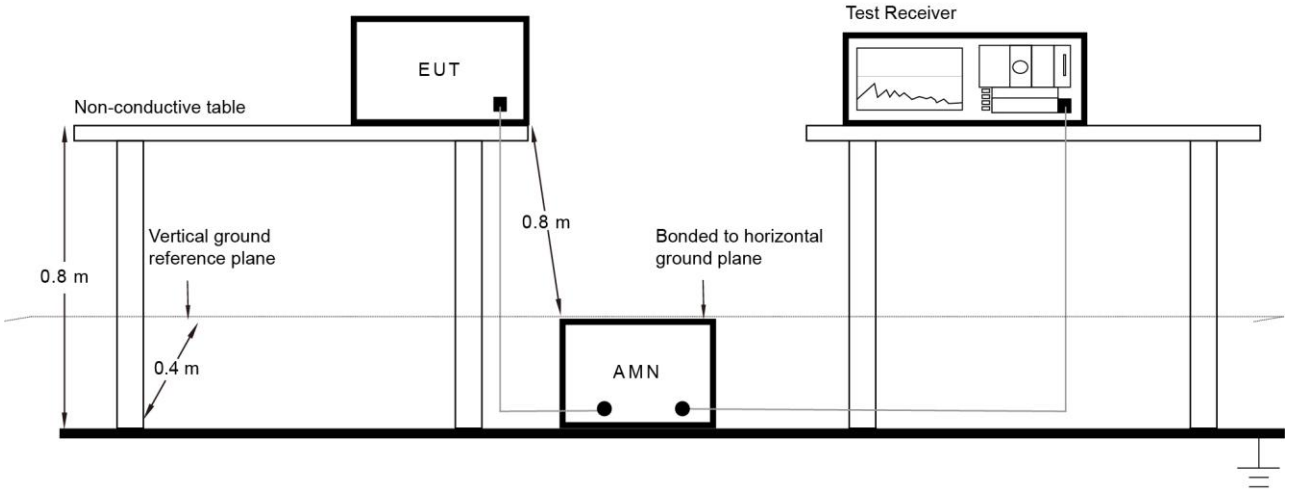
Refer to Appendix A.7.

6.8. AC Conducted Emissions Measurement

6.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50
Note 1: The lower limit shall apply at the transition frequencies. Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.		

6.8.2. Test Setup



6.8.3. Test Result

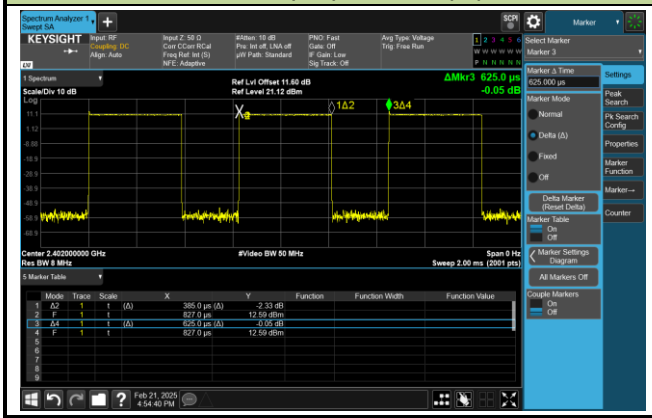
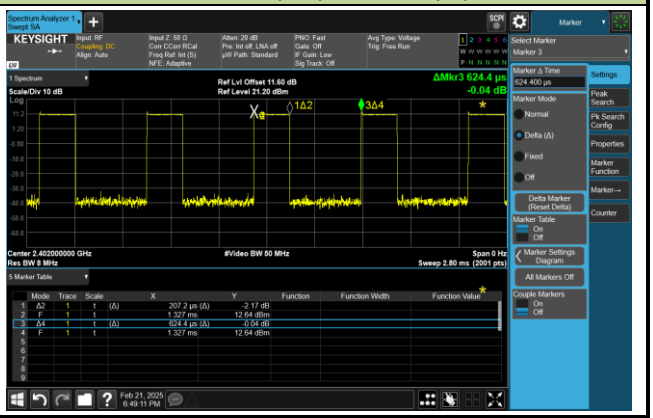
Refer to Appendix A.8.

Appendix A - Test Result

A.1 Duty Cycle Test Result

Core 0

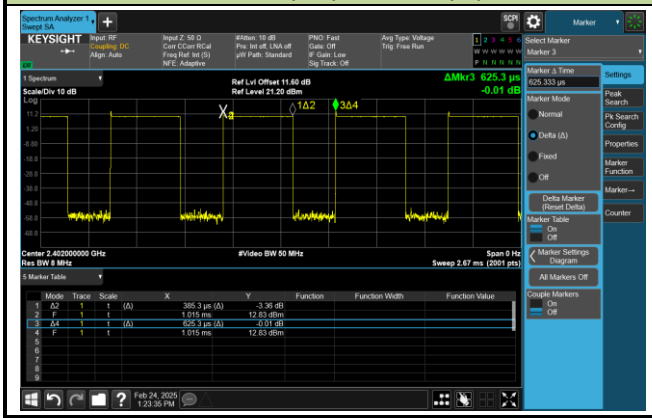
Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-21		

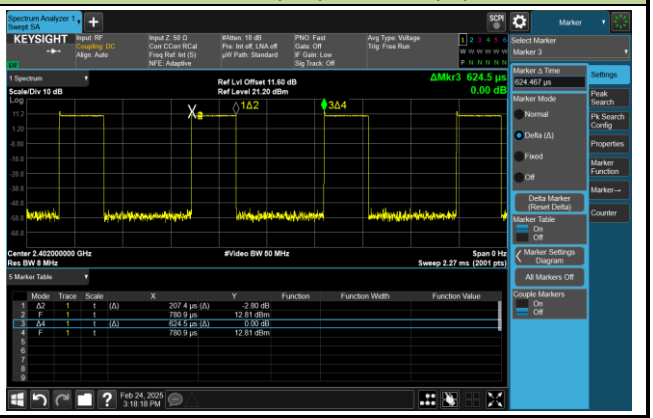
Test Mode	Duty Cycle
BLE-1Mbps	61.60%
BLE-2Mbps	33.18%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 385.0μs)	BLE-2Mbps (T = 207.2μs)
	

Core 1

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-24		

Test Mode	Duty Cycle
BLE-1Mbps	61.62%
BLE-2Mbps	33.21%
Duty Cycle (T = Transmission Duration)	
BLE-1Mbps (T = 385.3μs)	BLE-2Mbps (T = 207.4μs)





A.2 6dB Bandwidth Test Result

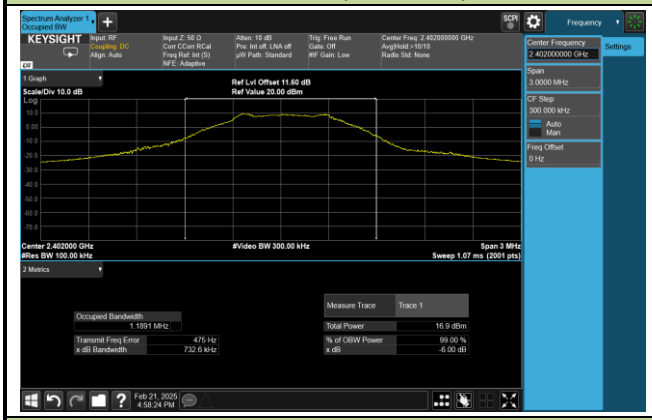
Core 0

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-21		

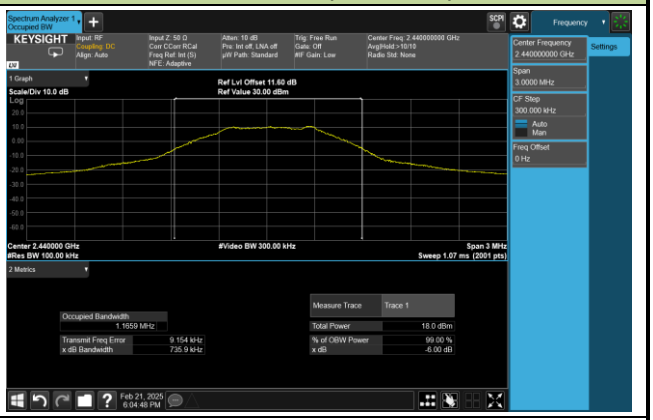
Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7326	≥ 0.5
BLE	1Mbps	19	2440	0.7359	≥ 0.5
BLE	1Mbps	39	2480	0.7392	≥ 0.5
BLE	2Mbps	00	2402	1.3530	≥ 0.5
BLE	2Mbps	19	2440	1.3600	≥ 0.5
BLE	2Mbps	39	2480	1.3470	≥ 0.5

BLE-1Mbps 6dB Bandwidth

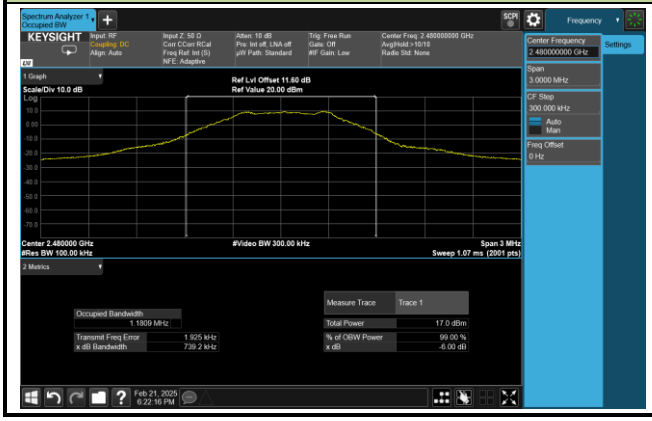
Channel 00 (2402MHz)

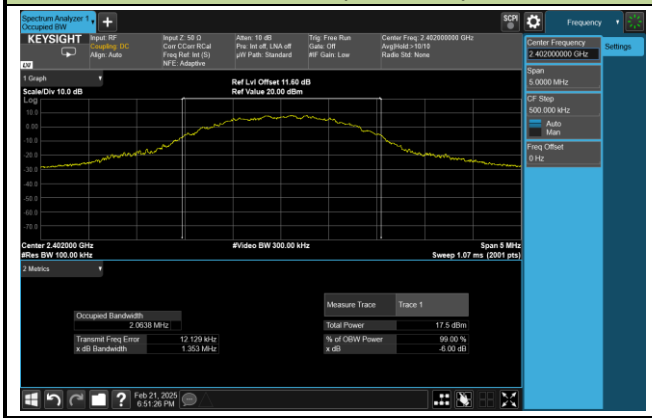
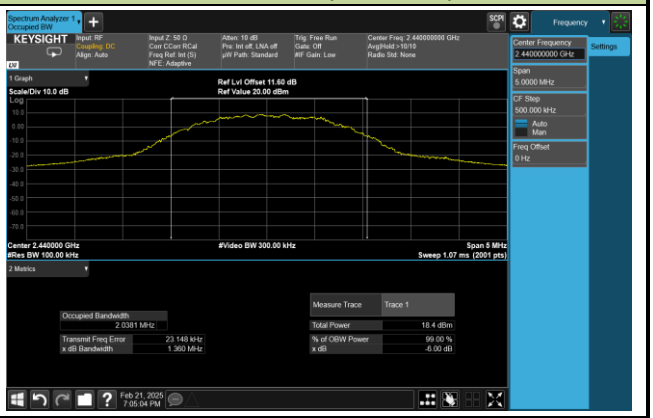
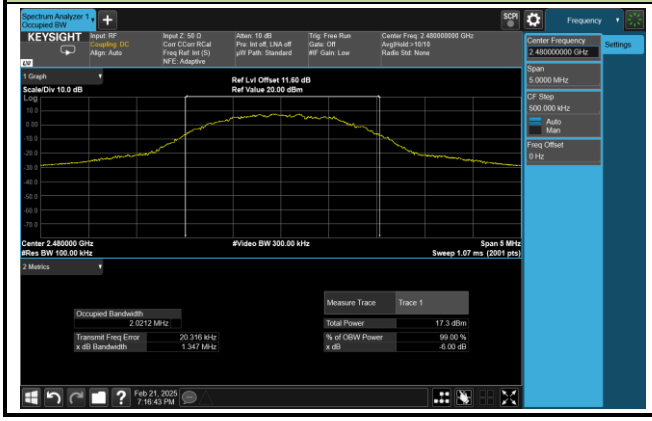


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps 6dB Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

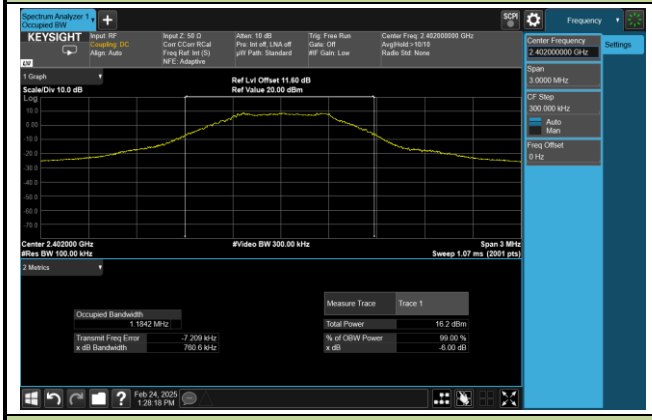
Core 1

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-24		

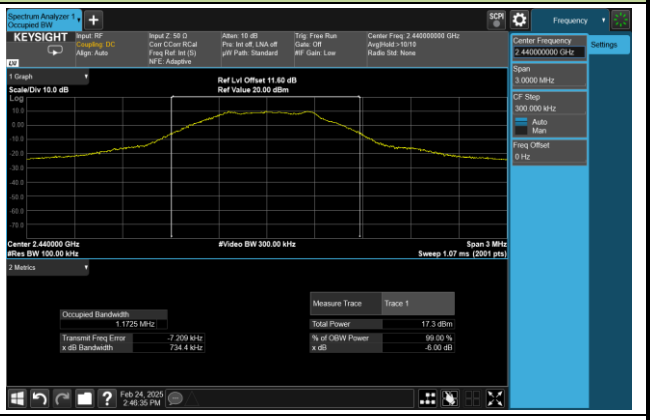
Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7606	≥ 0.5
BLE	1Mbps	19	2440	0.7344	≥ 0.5
BLE	1Mbps	39	2480	0.7804	≥ 0.5
BLE	2Mbps	00	2402	1.3470	≥ 0.5
BLE	2Mbps	19	2440	1.3490	≥ 0.5
BLE	2Mbps	39	2480	1.4290	≥ 0.5

BLE-1Mbps 6dB Bandwidth

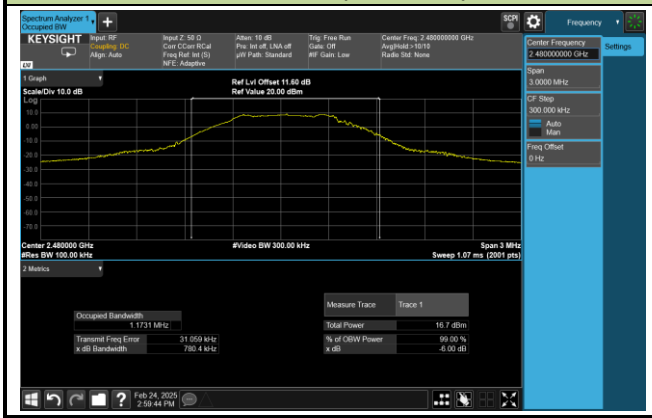
Channel 00 (2402MHz)

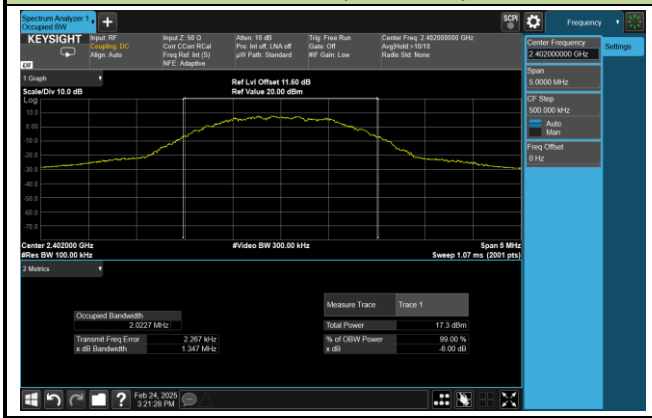
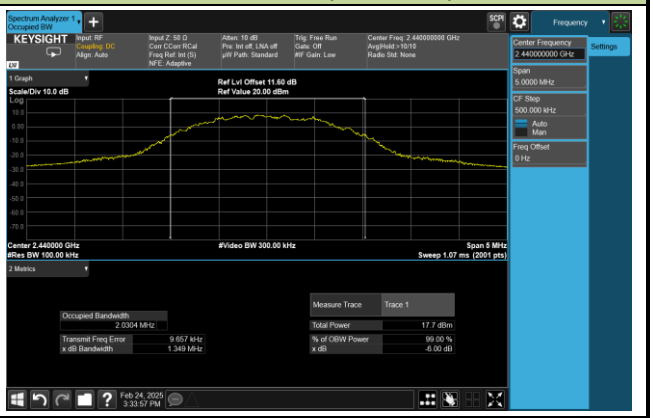
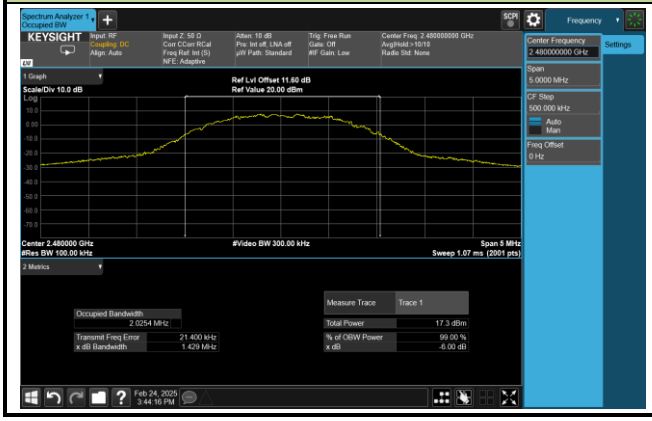


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps 6dB Bandwidth	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

A.3 Output Power Test Result

Core 0

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-25		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	10.92	≤ 30.00	Pass
BLE	1Mbps	19	2440	11.84	≤ 30.00	Pass
BLE	1Mbps	39	2480	10.71	≤ 30.00	Pass
BLE	2Mbps	00	2402	10.94	≤ 30.00	Pass
BLE	2Mbps	19	2440	11.79	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.62	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	10.25	≤ 30.00	Pass
BLE	1Mbps	19	2440	11.20	≤ 30.00	Pass
BLE	1Mbps	39	2480	10.03	≤ 30.00	Pass
BLE	2Mbps	00	2402	10.35	≤ 30.00	Pass
BLE	2Mbps	19	2440	11.29	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.14	≤ 30.00	Pass

Core 1

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-25		

Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	10.57	≤ 30.00	Pass
BLE	1Mbps	19	2440	11.58	≤ 30.00	Pass
BLE	1Mbps	39	2480	10.35	≤ 30.00	Pass
BLE	2Mbps	00	2402	10.56	≤ 30.00	Pass
BLE	2Mbps	19	2440	11.52	≤ 30.00	Pass
BLE	2Mbps	39	2480	10.30	≤ 30.00	Pass

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	9.95	≤ 30.00	Pass
BLE	1Mbps	19	2440	10.96	≤ 30.00	Pass
BLE	1Mbps	39	2480	9.77	≤ 30.00	Pass
BLE	2Mbps	00	2402	10.08	≤ 30.00	Pass
BLE	2Mbps	19	2440	11.09	≤ 30.00	Pass
BLE	2Mbps	39	2480	9.85	≤ 30.00	Pass

Core 0 and Core 1 simultaneous transmission - same output power setting

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-25		

Test Result of Peak Output Power

Test Mode	Channel No.		Frequency (MHz)		Peak Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
	Core 0	Core 1	Core 0	Core 1	Core 0	Core 1			
BLE	00	01	2402	2404	10.89	9.55	13.28	≤ 30.00	Pass
BLE	19	20	2440	2442	11.48	10.78	14.15	≤ 30.00	Pass
BLE	33	34	2468	2470	10.71	10.63	13.68	≤ 30.00	Pass
BLE	33	35	2468	2472	10.82	10.76	13.80	≤ 30.00	Pass
BLE	33	36	2468	2474	10.78	10.52	13.66	≤ 30.00	Pass
BLE	33	37	2468	2476	-3.45	-3.68	-0.55	≤ 30.00	Pass
BLE	33	38	2468	2478	0.49	0.32	3.42	≤ 30.00	Pass
BLE	33	39	2468	2480	6.32	5.68	9.02	≤ 30.00	Pass
BLE	34	35	2470	2472	10.87	10.75	13.82	≤ 30.00	Pass
BLE	34	36	2470	2474	10.95	10.66	13.82	≤ 30.00	Pass
BLE	34	37	2470	2476	10.89	10.51	13.71	≤ 30.00	Pass
BLE	34	38	2470	2478	-2.48	-2.56	0.49	≤ 30.00	Pass
BLE	34	39	2470	2480	1.28	1.04	4.17	≤ 30.00	Pass
BLE	35	36	2472	2474	10.94	10.69	13.83	≤ 30.00	Pass
BLE	35	37	2472	2476	10.92	10.72	13.83	≤ 30.00	Pass
BLE	35	38	2472	2478	-3.94	-4.02	-0.97	≤ 30.00	Pass
BLE	35	39	2472	2480	-0.41	-0.56	2.53	≤ 30.00	Pass
BLE	36	37	2474	2476	10.79	10.58	13.70	≤ 30.00	Pass
BLE	36	38	2474	2478	10.75	10.42	13.60	≤ 30.00	Pass
BLE	36	39	2474	2480	-3.78	-3.67	-0.71	≤ 30.00	Pass
BLE	37	38	2476	2478	10.58	10.34	13.47	≤ 30.00	Pass
BLE	37	39	2476	2480	-7.02	-6.98	-3.99	≤ 30.00	Pass
BLE	38	39	2478	2480	9.87	9.14	12.53	≤ 30.00	Pass

Note: Total Power (dBm) = $10*\log \{10^{(\text{Core 0 Peak Power /10})} + 10^{(\text{Core 1 Peak Power /10})}\}$ (dBm).

Test Result of Average Output Power (Reporting Only)

Test Mode	Channel No.		Frequency (MHz)		Average Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
	Core 0	Core 1	Core 0	Core 1	Core 0	Core 1			
BLE	00	01	2402	2404	9.92	8.87	12.44	≤ 30.00	Pass
BLE	19	20	2440	2442	10.69	10.09	13.41	≤ 30.00	Pass
BLE	33	34	2468	2470	9.85	10.07	12.97	≤ 30.00	Pass
BLE	33	35	2468	2472	9.99	10.16	13.09	≤ 30.00	Pass
BLE	33	36	2468	2474	9.94	9.84	12.90	≤ 30.00	Pass
BLE	33	37	2468	2476	-4.19	-4.54	-1.35	≤ 30.00	Pass
BLE	33	38	2468	2478	0.03	-0.31	2.87	≤ 30.00	Pass
BLE	33	39	2468	2480	5.82	5.11	8.49	≤ 30.00	Pass
BLE	34	35	2470	2472	10.03	10.14	13.10	≤ 30.00	Pass
BLE	34	36	2470	2474	10.12	10.01	13.08	≤ 30.00	Pass
BLE	34	37	2470	2476	10.07	9.82	12.96	≤ 30.00	Pass
BLE	34	38	2470	2478	-3.12	-3.32	-0.21	≤ 30.00	Pass
BLE	34	39	2470	2480	0.87	0.43	3.67	≤ 30.00	Pass
BLE	35	36	2472	2474	10.08	10.05	13.08	≤ 30.00	Pass
BLE	35	37	2472	2476	10.10	10.05	13.09	≤ 30.00	Pass
BLE	35	38	2472	2478	-4.73	-4.93	-1.82	≤ 30.00	Pass
BLE	35	39	2472	2480	-0.91	-1.27	1.92	≤ 30.00	Pass
BLE	36	37	2474	2476	9.96	9.89	12.94	≤ 30.00	Pass
BLE	36	38	2474	2478	9.88	9.74	12.82	≤ 30.00	Pass
BLE	36	39	2474	2480	-4.51	-4.57	-1.53	≤ 30.00	Pass
BLE	37	38	2476	2478	9.73	9.65	12.70	≤ 30.00	Pass
BLE	37	39	2476	2480	-8.36	-8.41	-5.37	≤ 30.00	Pass
BLE	38	39	2478	2480	8.94	8.39	11.68	≤ 30.00	Pass

Note: Total Power (dBm) = $10*\log\{10^{(\text{Core 0 Average Power}/10)} + 10^{(\text{Core 1 Average Power}/10)}\}$ (dBm).

Core 0 and Core 1 simultaneous transmission - different output power settings

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-25		

Test Result of Peak Output Power

Test Mode	Channel No.		Frequency (MHz)		Peak Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
	Core 0	Core 1	Core 0	Core 1	Core 0	Core 1			
BLE	33	37	2468	2476	-3.86	10.51	10.67	≤ 30.00	Pass
BLE	33	38	2468	2478	-0.36	10.27	10.63	≤ 30.00	Pass
BLE	33	39	2468	2480	4.87	9.86	11.06	≤ 30.00	Pass
BLE	34	38	2470	2478	-3.21	10.25	10.44	≤ 30.00	Pass
BLE	34	39	2470	2480	0.73	9.93	10.42	≤ 30.00	Pass
BLE	35	38	2472	2478	-6.02	10.24	10.34	≤ 30.00	Pass
BLE	35	39	2472	2480	-2.35	9.99	10.24	≤ 30.00	Pass
BLE	36	39	2474	2480	-5.54	9.92	10.04	≤ 30.00	Pass
BLE	37	39	2476	2480	-8.08	9.98	10.05	≤ 30.00	Pass
BLE	38	39	2478	2480	6.21	9.79	11.37	≤ 30.00	Pass

Note: Total Power (dBm) = 10*log {$10^{(\text{Core 0 Peak Power /10})}$ +$10^{(\text{Core 1 Peak Power /10})}$} (dBm).

Test Result of Average Output Power (Reporting Only)

Test Mode	Channel No.		Frequency (MHz)		Average Power (dBm)		Total Power (dBm)	Limit (dBm)	Result
	Core 0	Core 1	Core 0	Core 1	Core 0	Core 1			
BLE	33	37	2468	2476	-5.43	9.83	9.96	≤ 30.00	Pass
BLE	33	38	2468	2478	-1.38	9.59	9.92	≤ 30.00	Pass
BLE	33	39	2468	2480	4.18	9.18	10.37	≤ 30.00	Pass
BLE	34	38	2470	2478	-4.63	9.56	9.72	≤ 30.00	Pass
BLE	34	39	2470	2480	-0.13	9.26	9.73	≤ 30.00	Pass
BLE	35	38	2472	2478	-8.04	9.56	9.63	≤ 30.00	Pass
BLE	35	39	2472	2480	-3.52	9.31	9.53	≤ 30.00	Pass
BLE	36	39	2474	2480	-7.41	9.26	9.35	≤ 30.00	Pass
BLE	37	39	2476	2480	-11.16	9.31	9.35	≤ 30.00	Pass
BLE	38	39	2478	2480	5.52	9.11	10.69	≤ 30.00	Pass

Note: Total Power (dBm) = 10*log {$10^{(\text{Core 0 Average Power /10})}$ +$10^{(\text{Core 1 Average Power /10})}$} (dBm).

A.4 Power Spectral Density Test Result

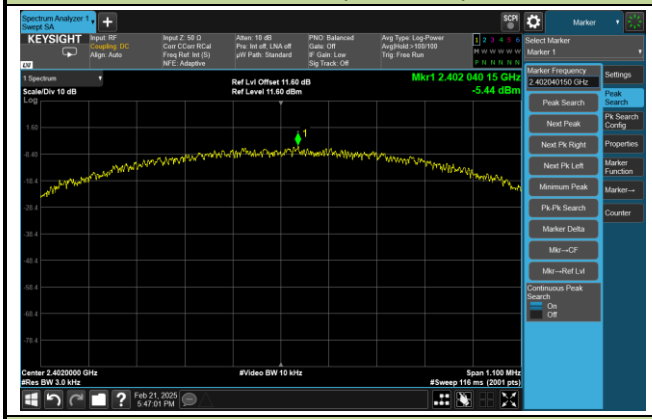
Core 0

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-21		

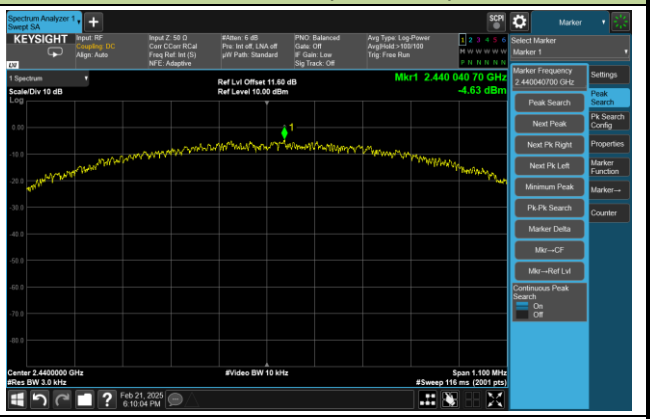
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-5.44	≤ 8.00	Pass
BLE	1Mbps	19	2440	-4.63	≤ 8.00	Pass
BLE	1Mbps	39	2480	-6.18	≤ 8.00	Pass
BLE	2Mbps	00	2402	-9.80	≤ 8.00	Pass
BLE	2Mbps	19	2440	-9.49	≤ 8.00	Pass
BLE	2Mbps	39	2480	-10.18	≤ 8.00	Pass

BLE-1Mbps PSD

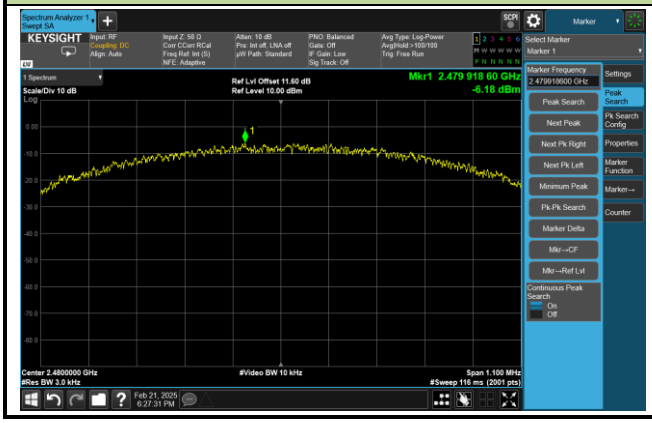
Channel 00 (2402MHz)

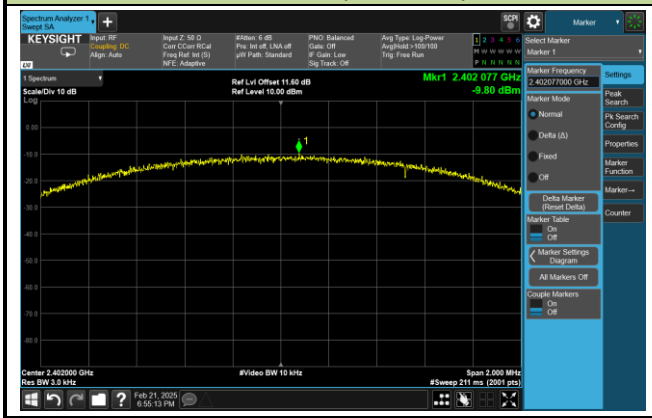
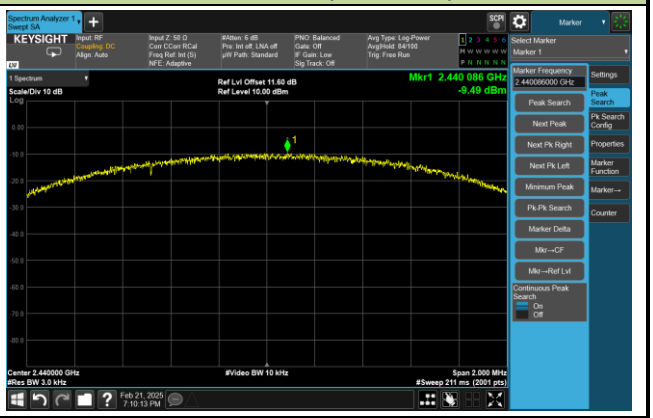
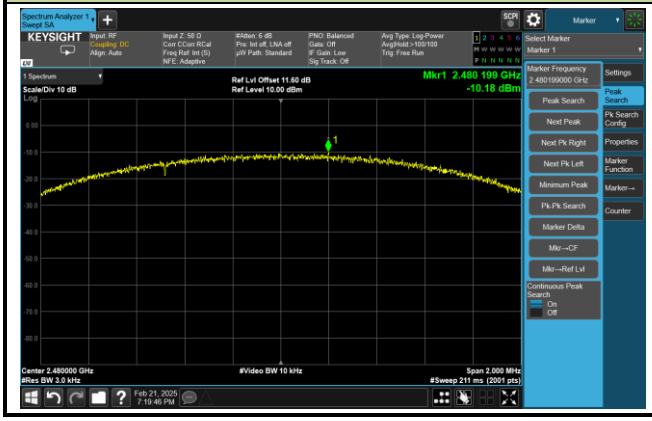


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

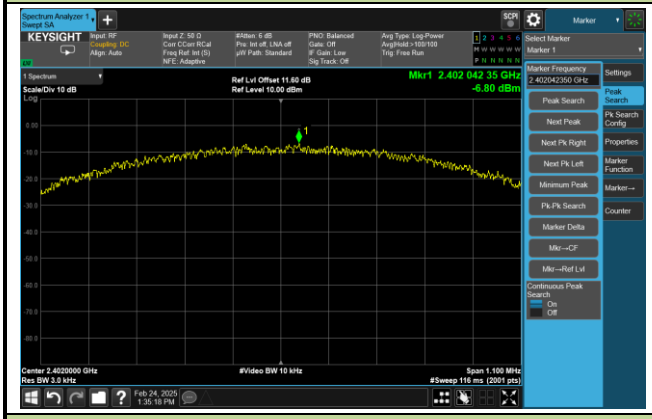
Core 1

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-24		

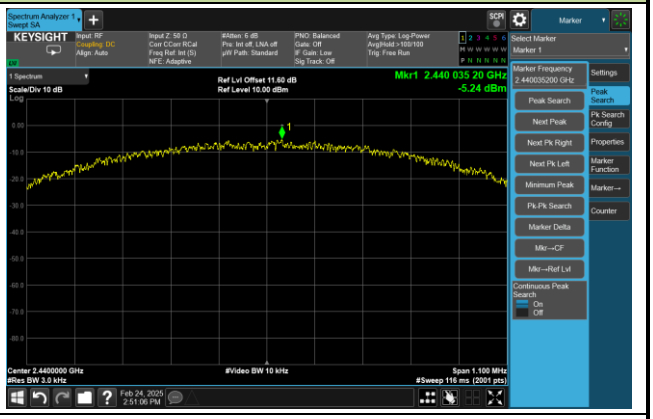
Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-6.80	≤ 8.00	Pass
BLE	1Mbps	19	2440	-5.24	≤ 8.00	Pass
BLE	1Mbps	39	2480	-5.98	≤ 8.00	Pass
BLE	2Mbps	00	2402	-10.75	≤ 8.00	Pass
BLE	2Mbps	19	2440	-9.60	≤ 8.00	Pass
BLE	2Mbps	39	2480	-10.11	≤ 8.00	Pass

BLE-1Mbps PSD

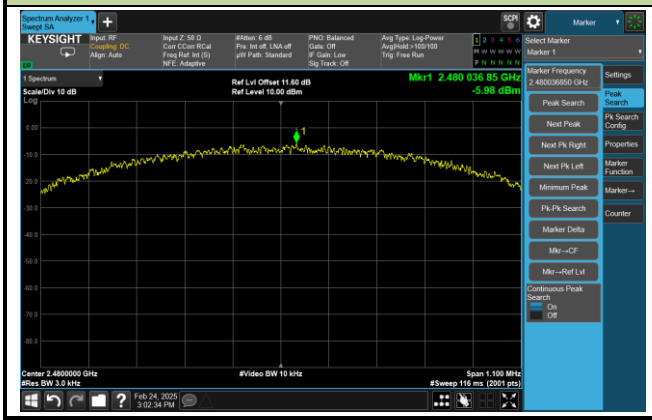
Channel 00 (2402MHz)

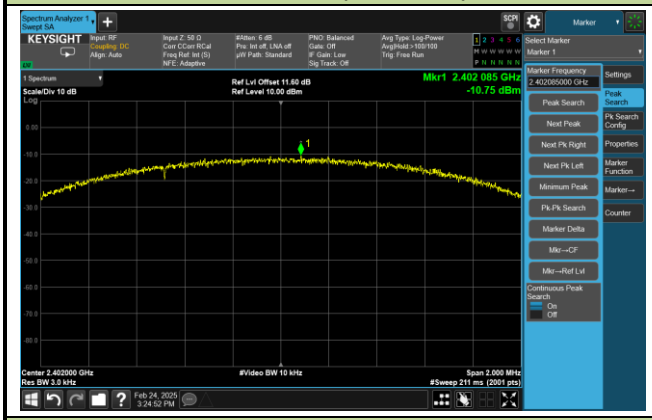
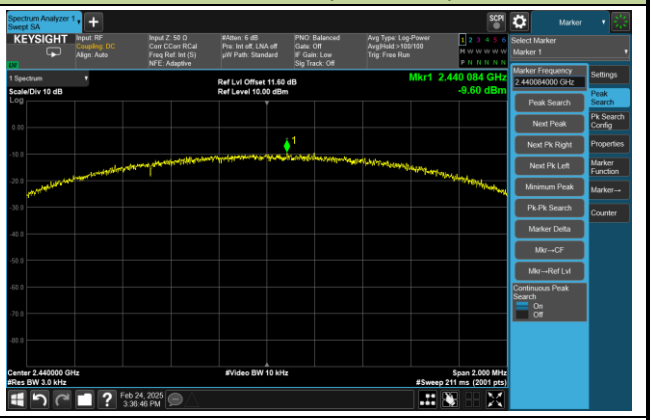
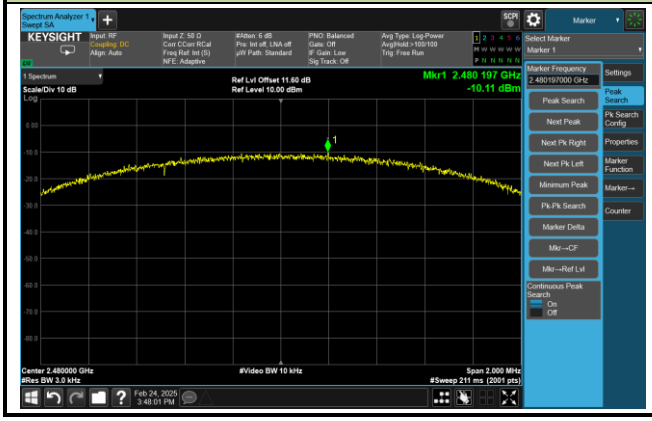


Channel 19 (2440MHz)



Channel 39 (2480MHz)



BLE-2Mbps PSD	
Channel 00 (2402MHz)	Channel 19 (2440MHz)
	
Channel 39 (2480MHz)	
	

A.5 Conducted Band Edge and Out-of-Band Emissions Test Result

Core 0

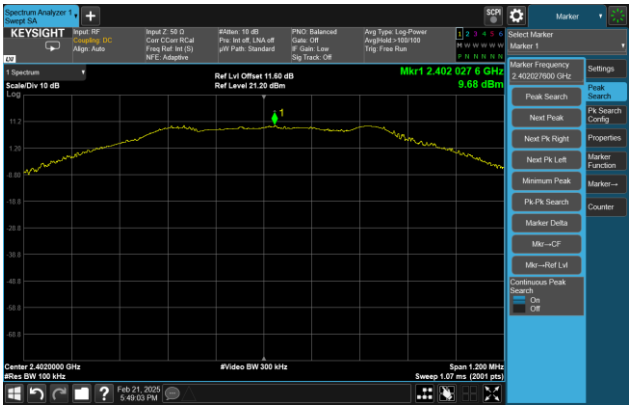
Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-21 ~ 2025-02-24		

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

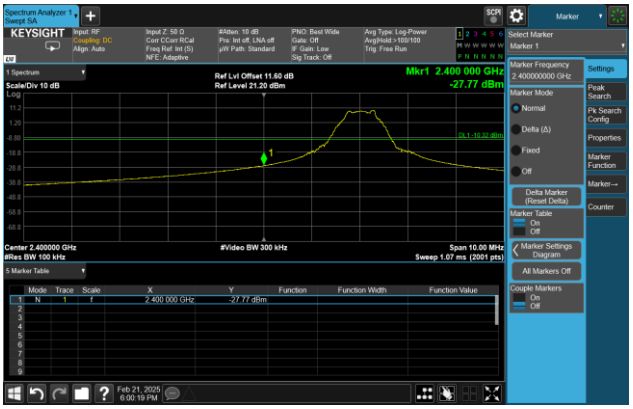
BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

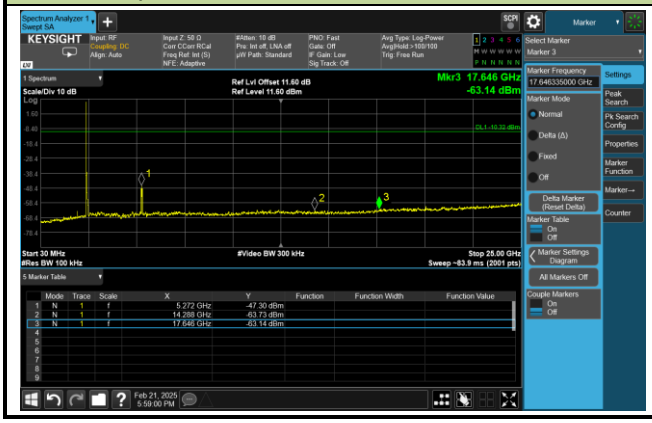
100kHz PSD Reference Level

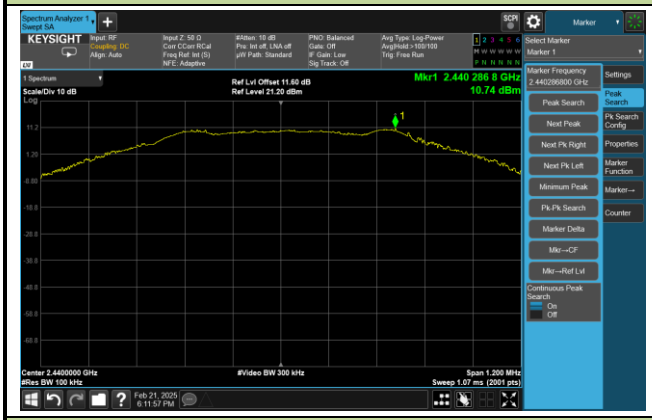
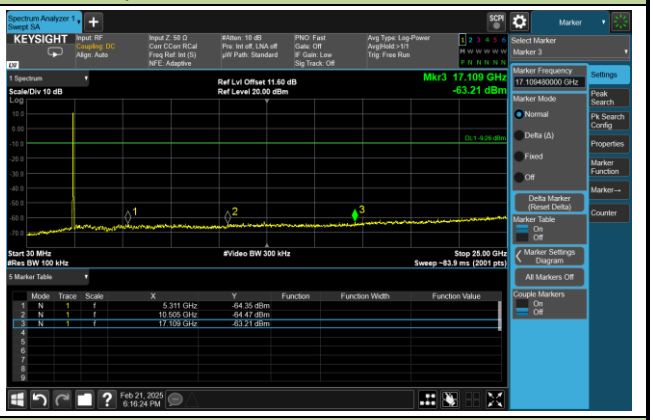
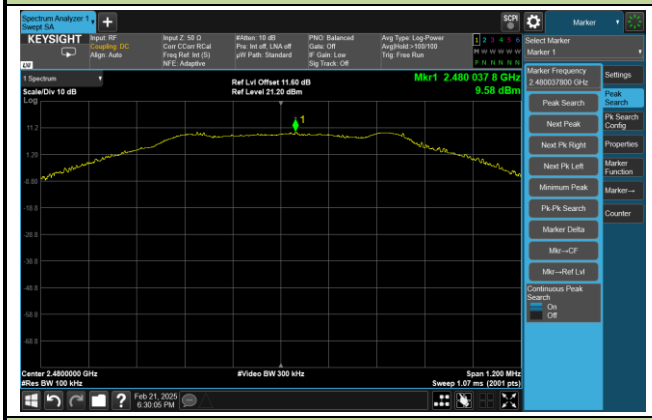
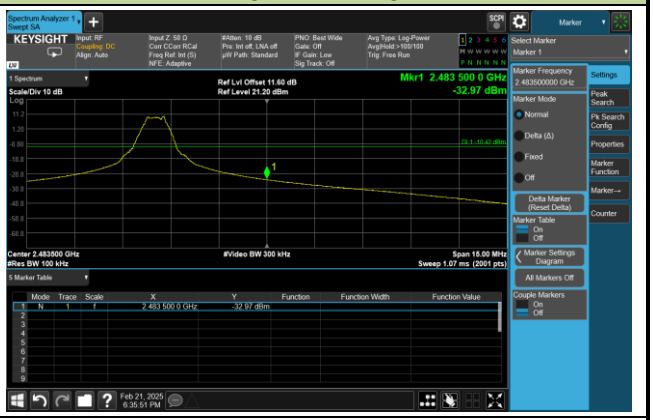
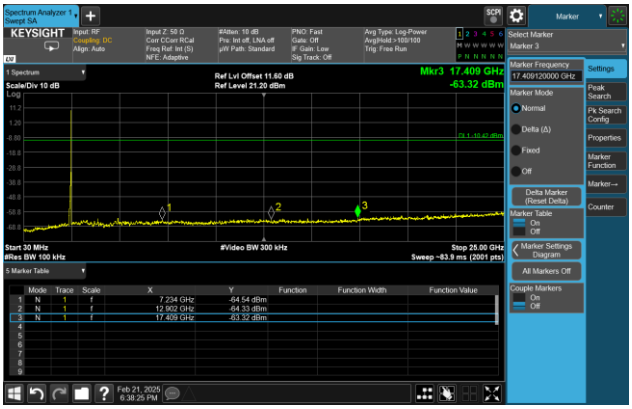


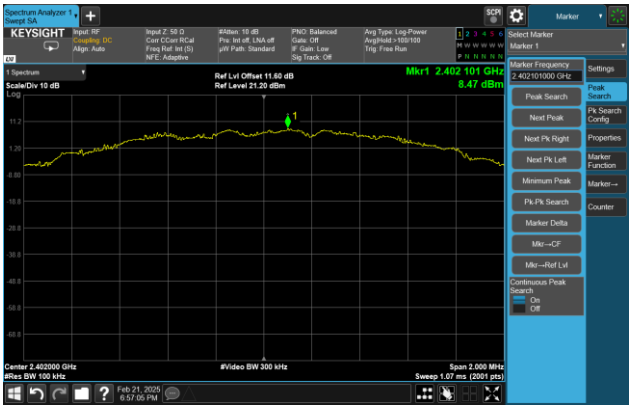
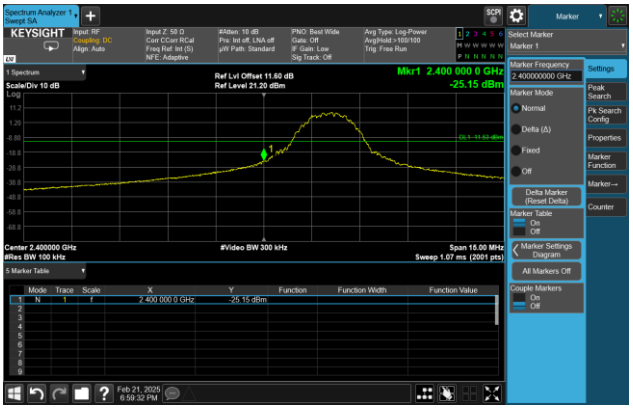
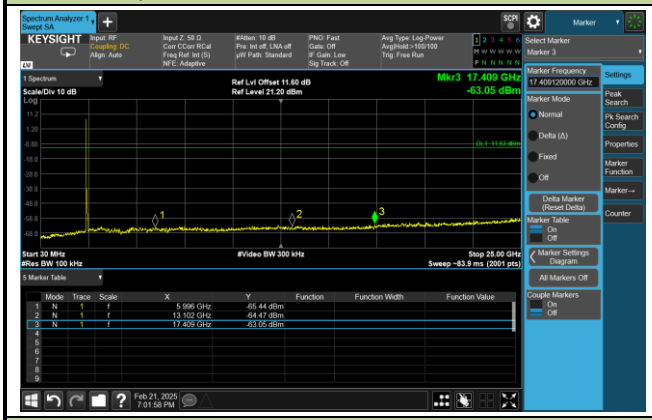
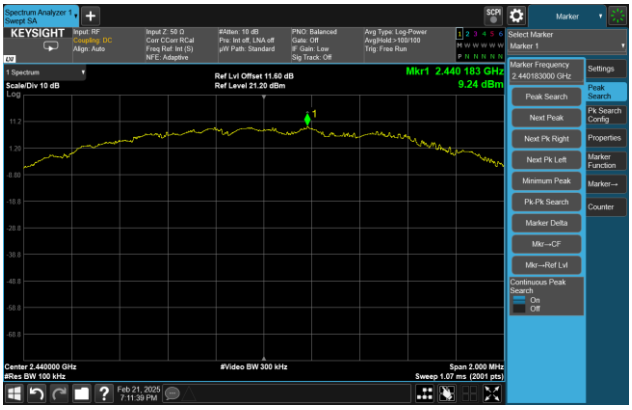
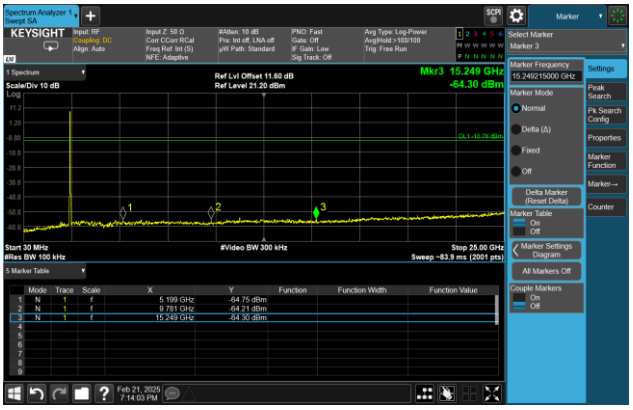
Low Band Edge

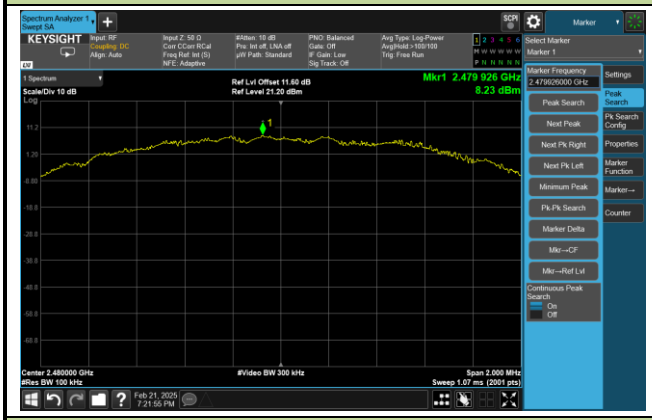
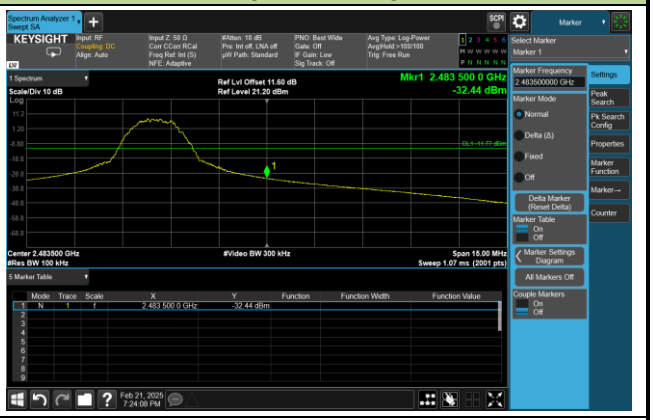
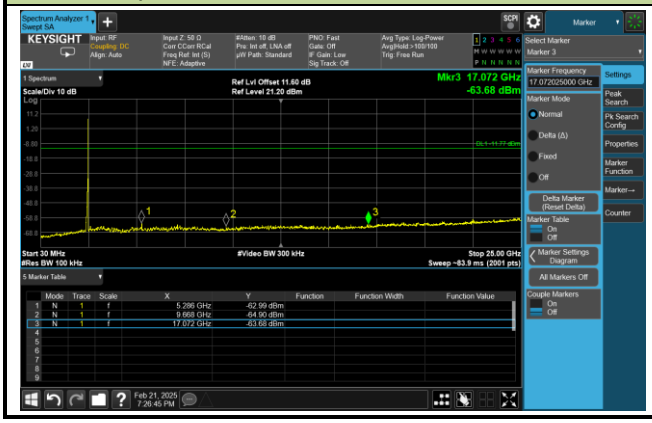


Spurious Emission 30MHz ~ 25GHz



Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	
Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

BLE-2Mbps Out-of-Band Emissions	
Channel 00 (2402MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	
Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	

Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

Core 1

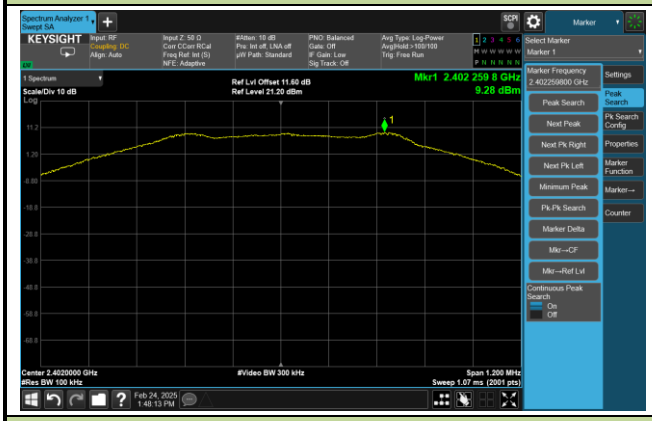
Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-24 ~ 2025-02-27		

Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass

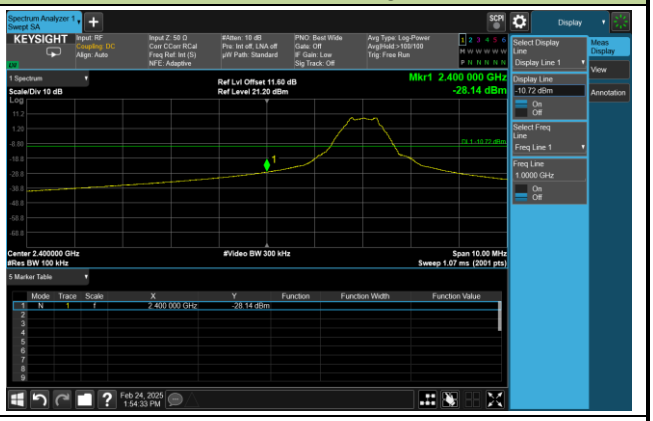
BLE-1Mbps Out-of-Band Emissions

Channel 00 (2402MHz)

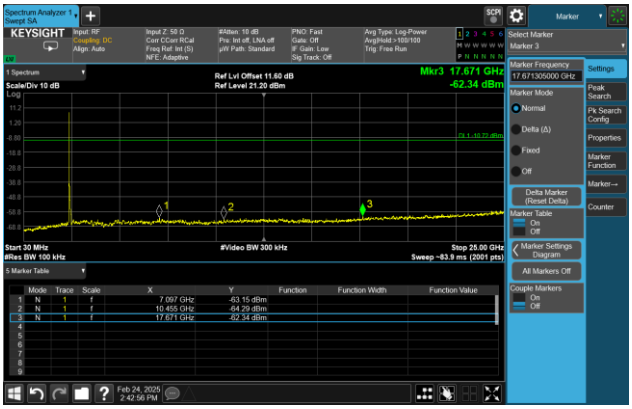
100kHz PSD Reference Level

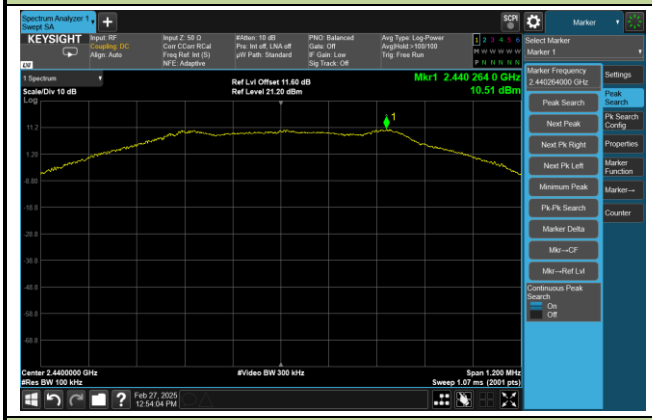
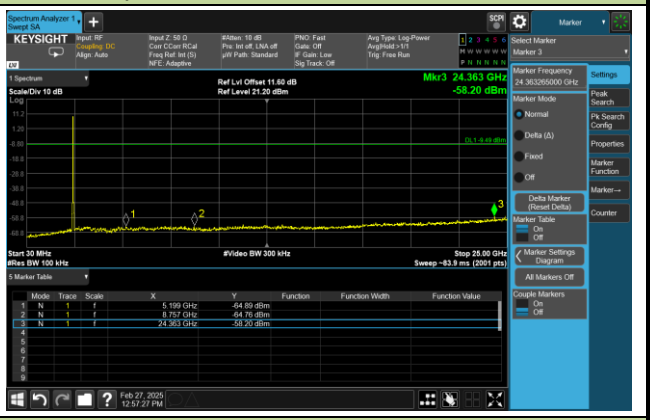
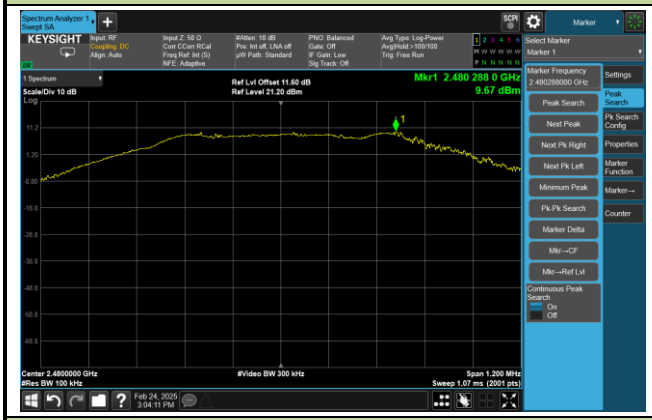
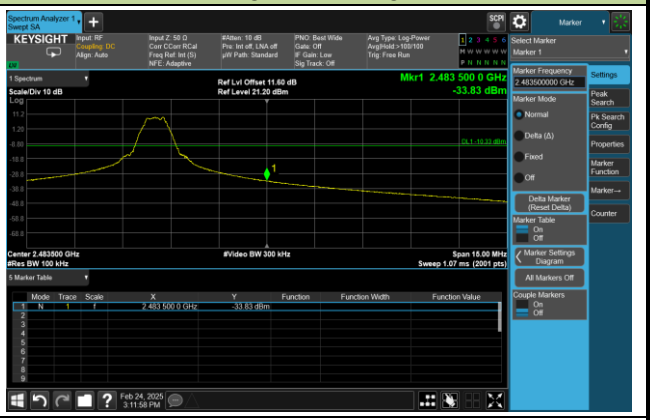
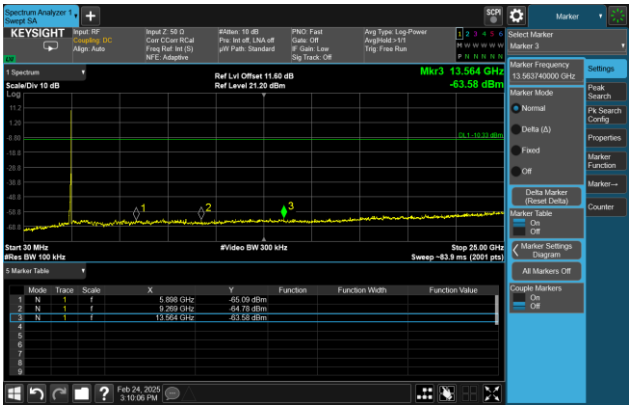


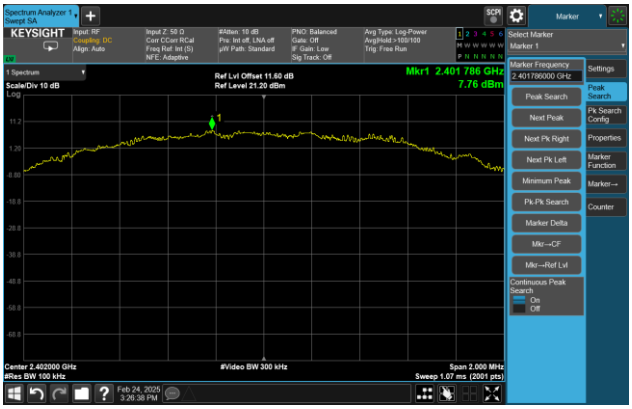
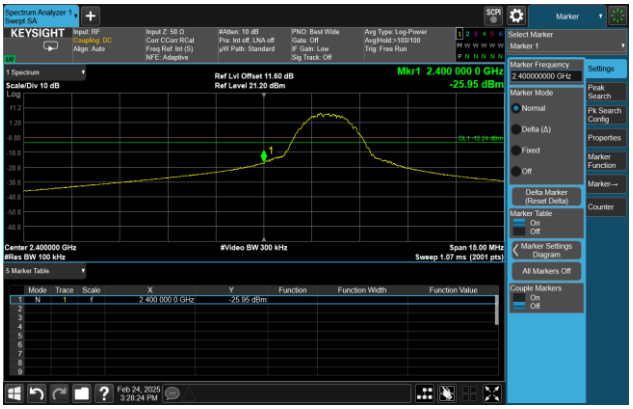
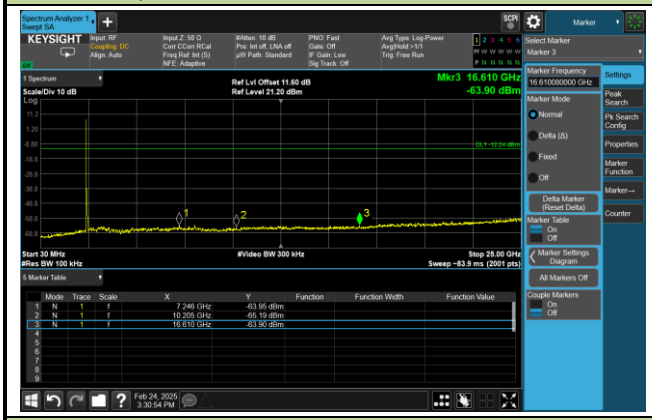
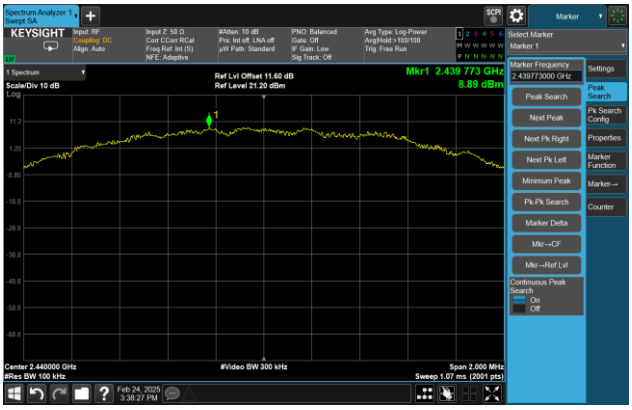
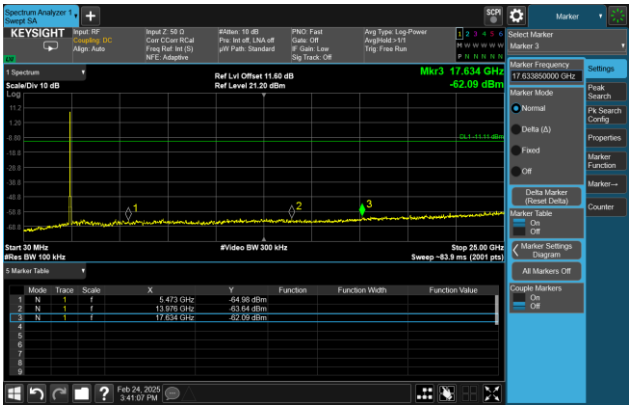
Low Band Edge

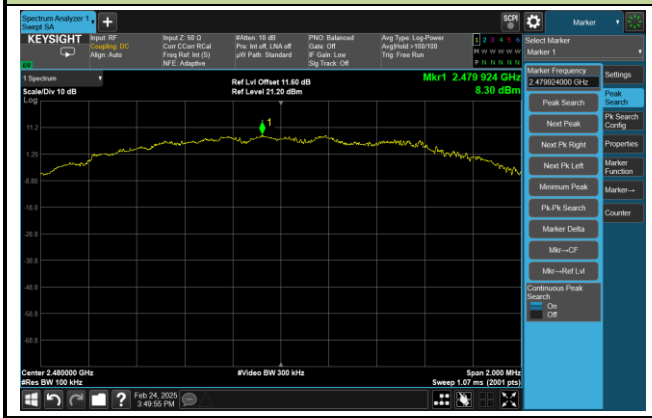
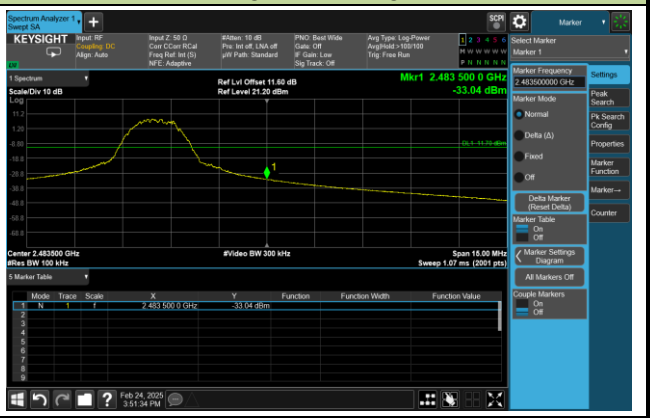
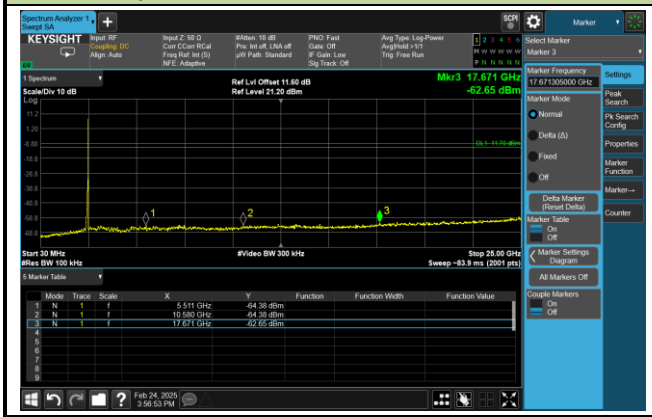


Spurious Emission 30MHz ~ 25GHz



Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	
Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

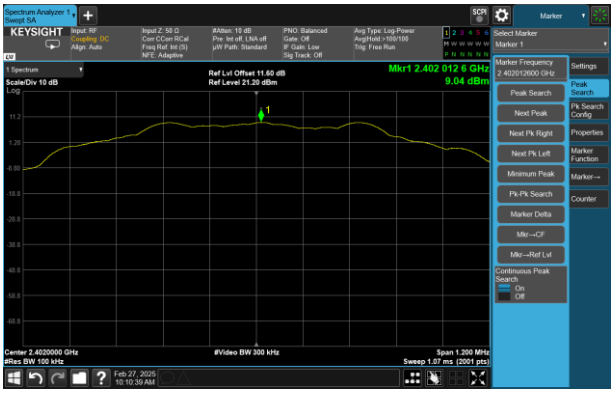
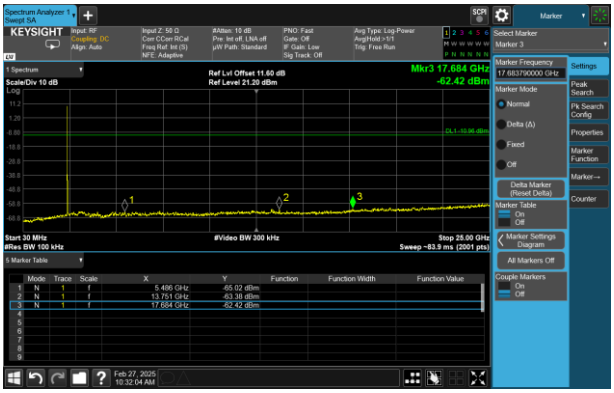
BLE-2Mbps Out-of-Band Emissions	
Channel 00 (2402MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	
Channel 19 (2440MHz)	
100kHz PSD Reference Level	Spurious Emission 30MHz ~ 25GHz
	

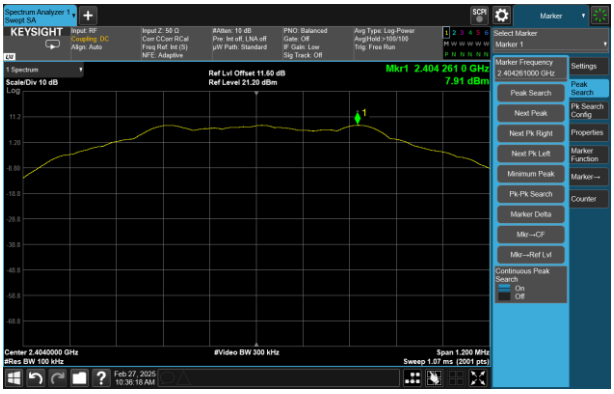
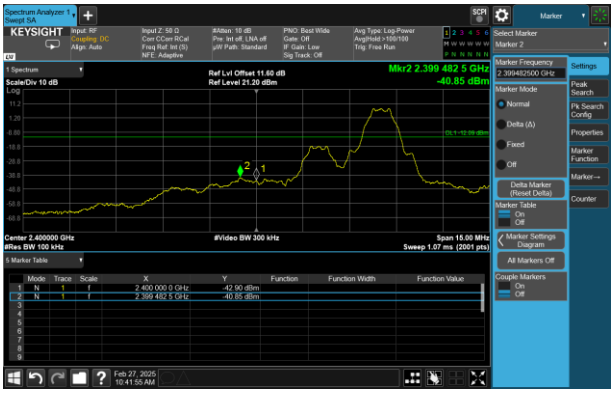
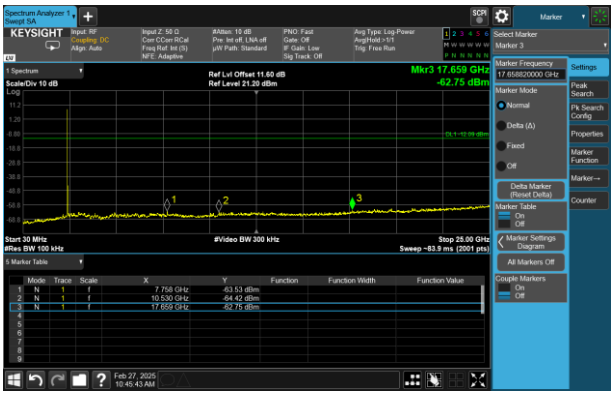
Channel 39 (2480MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

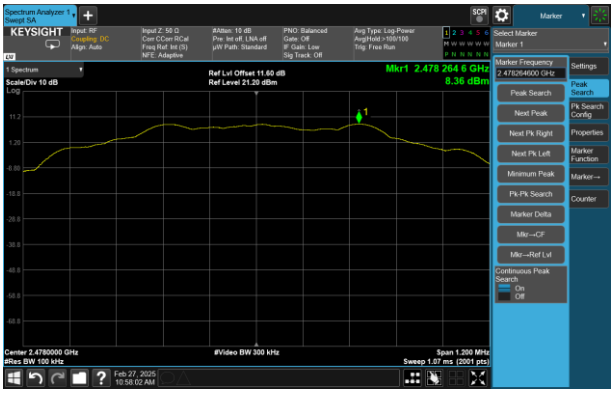
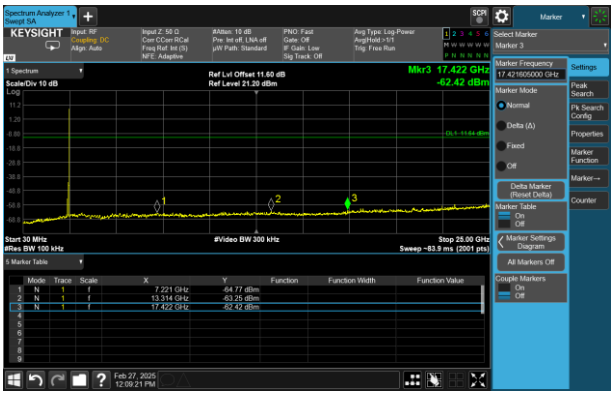
Core 0 and Core 1 simultaneous transmission (Same Power Setting)

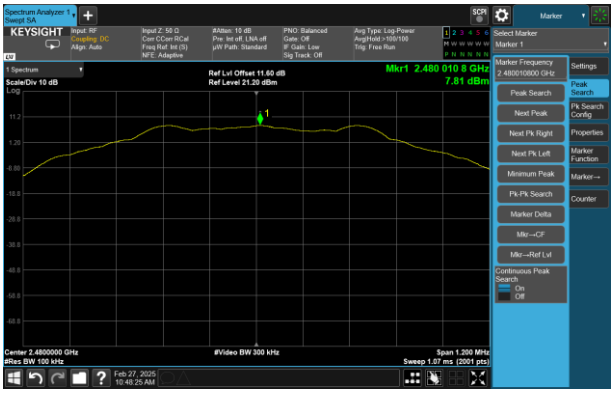
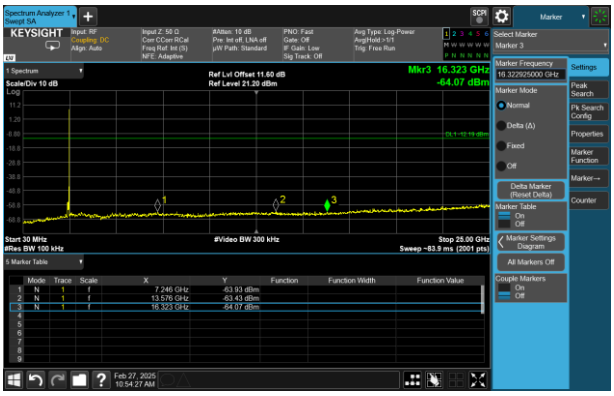
Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-27 ~ 2025-03-03		

Core 0 Frequency (MHz)	Core 1 Frequency (MHz)	Limit (dBc)	Result
2402	2404	20	Pass
2478	2480	20	Pass

Core 0 Port (Core 0 2402MHz + Core 1 2404MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

Core 1 Port (Core 0 2402MHz + Core 1 2404MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

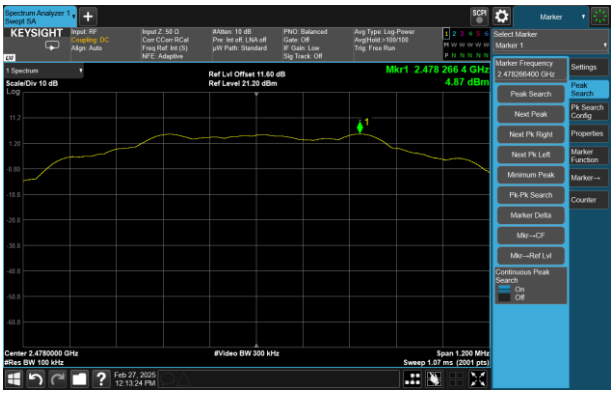
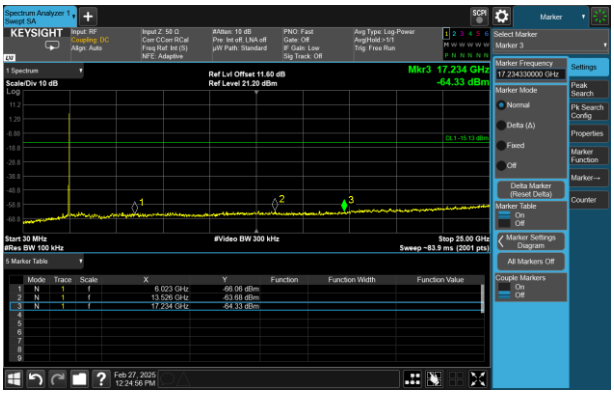
Core 0 Port (Core 0 2478MHz + Core 1 2480MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

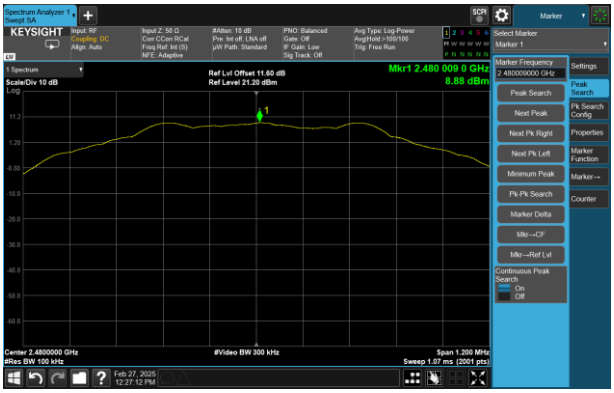
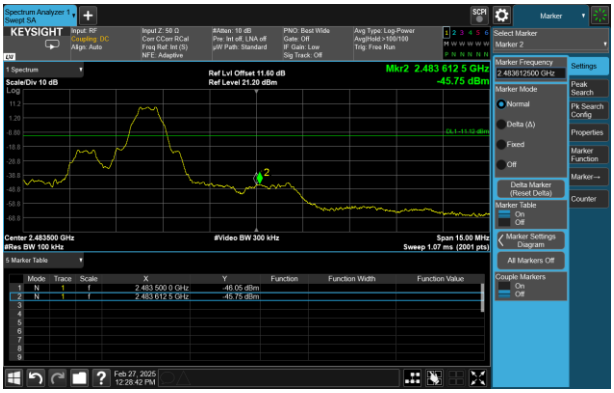
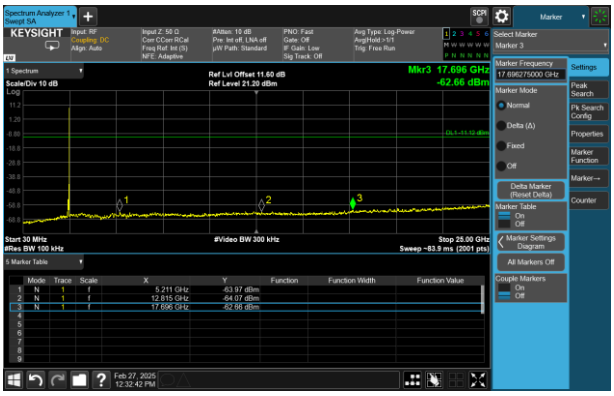
Core 1 Port (Core 0 2478MHz + Core 1 2480MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

Core 0 and Core 1 simultaneous transmission (Different Power Settings)

Test Site	WJ-SR2	Test Engineer	Jake Lan
Test Date	2025-02-27		

Core 0 Frequency (MHz)	Core 1 Frequency (MHz)	Limit (dBc)	Result
2478	2480	20	Pass

Core 0 Port (Core 0 2478MHz + Core 1 2480MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

Core 1 Port (Core 0 2478MHz + Core 1 2480MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission 30MHz ~ 25GHz	
	

A.6 Radiated Spurious Emission Test Result

Core 0

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-02-16	Test Mode:	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4054.900	42.7	-1.7	41.0	74.0	-33.0	Peak	Horizontal
	4865.800	39.8	0.1	39.9	74.0	-34.1	Peak	Horizontal
	11380.200	41.0	5.5	46.5	74.0	-27.5	Peak	Horizontal
	3966.500	40.8	-1.5	39.3	74.0	-34.7	Peak	Vertical
	4706.000	41.2	-0.3	40.9	74.0	-33.1	Peak	Vertical
	11288.400	41.7	5.4	47.1	74.0	-26.9	Peak	Vertical
19	3988.600	40.5	-1.4	39.1	74.0	-34.9	Peak	Horizontal
	4893.000	39.9	0.1	40.0	74.0	-34.0	Peak	Horizontal
	11817.100	41.4	4.9	46.3	74.0	-27.7	Peak	Horizontal
	4014.100	40.3	-1.4	38.9	74.0	-35.1	Peak	Vertical
	4945.700	39.7	0.1	39.8	74.0	-34.2	Peak	Vertical
	11565.500	40.1	5.1	45.2	74.0	-28.8	Peak	Vertical
39	3961.400	40.4	-1.5	38.9	74.0	-35.1	Peak	Horizontal
	4634.600	41.9	-0.3	41.6	74.0	-32.4	Peak	Horizontal
	12055.100	43.5	5.2	48.7	74.0	-25.3	Peak	Horizontal
	3981.800	41.2	-1.4	39.8	74.0	-34.2	Peak	Vertical
	4918.500	42.3	0.0	42.3	74.0	-31.7	Peak	Vertical
	11623.300	42.6	5.0	47.6	74.0	-26.4	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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

Test Site	WJ-AC2	Test Engineer	Bob Zhang
Test Date	2025-02-24	Test Mode:	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	4141.600	40.8	-1.8	39.0	74.0	-35.0	Peak	Horizontal
	4804.600	41.8	0.0	41.8	74.0	-32.2	Peak	Horizontal
	11771.200	42.6	4.7	47.3	74.0	-26.7	Peak	Horizontal
	3997.100	41.0	-1.3	39.7	74.0	-34.3	Peak	Vertical
	4967.800	41.4	0.1	41.5	74.0	-32.5	Peak	Vertical
	11422.700	41.7	5.4	47.1	74.0	-26.9	Peak	Vertical
19	3954.600	40.0	-1.5	38.5	74.0	-35.5	Peak	Horizontal
	4811.400	41.2	0.0	41.2	74.0	-32.8	Peak	Horizontal
	12026.200	42.9	5.1	48.0	74.0	-26.0	Peak	Horizontal
	3937.600	40.4	-1.5	38.9	74.0	-35.1	Peak	Vertical
	4785.900	41.1	0.0	41.1	74.0	-32.9	Peak	Vertical
	11417.600	42.0	5.4	47.4	74.0	-26.6	Peak	Vertical
39	3704.700	43.2	-1.9	41.3	74.0	-32.7	Peak	Horizontal
	5010.300	43.5	0.0	43.5	74.0	-30.5	Peak	Horizontal
	12095.900	44.5	5.2	49.7	74.0	-24.3	Peak	Horizontal
	3789.700	42.5	-1.5	41.0	74.0	-33.0	Peak	Vertical
	4862.400	43.1	0.1	43.2	74.0	-30.8	Peak	Vertical
	11325.800	44.3	5.4	49.7	74.0	-24.3	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

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