



Prüfbericht-Nr.: <i>Test report no.:</i>	CN26T9D9 001	Auftrags-Nr.: <i>Order no.:</i>	48303976	Seite 1 von 29 Page 1 of 29
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2026-04-09	
Auftraggeber: <i>Client:</i>	KAGA FEI Co., Ltd. Gunseisha ANNEX Bldg. 5th floor, 382-1, Kaminamie-machi, Takasaki, Gunma, 370-0801, Japan			
Prüfgegenstand: <i>Test item:</i>	Bluetooth Low Energy Module			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	ES4L15			
Auftrags-Inhalt: <i>Order content:</i>	FCC Part 15C Test report (Bluetooth LE with channel sounding)			
Prüfgrundlage: <i>Test specification:</i>	FCC 47CFR Part 15: Subpart C Section 15.247			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2026-04-13			
Prüfmuster-Nr.: <i>Test sample no.:</i>	A004250598-002 A004250598-003 & 004			
Prüfzeitraum: <i>Testing period:</i>	2026-04-23 - 2026-05-11			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland Taiwan Ltd. New Taipei Branch			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories			
Prüfergebnis*: <i>Test result*:</i>	Pass			
zusammengestellt von: <i>compiled by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i>	2026-05-15	Ausstellungsdatum: <i>Issue date:</i>	2026-05-15	
Stellung / Position:	Senior Project Manager	Stellung / Position:	Senior Project Manager	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>				
Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
5 = mangelhaft N/T = nicht getestet				
5 = poor N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen Remarks

- | | |
|----------|--|
| 1 | <p>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</p> <p>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</p> <p><i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i></p> |
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| 3 | <p>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben.</p> <p>Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</p> <p><i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i></p> <p><i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i></p> |
| 4 | <p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p> |

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TEST SUMMARY

Report Section	FCC Clause	Test Item	Result
5.1.1	15.247(b) & 15.203	Antenna Requirement	Pass
5.1.2	15.247(b)(3)	Peak Output Power	Pass
5.1.3	15.247(a)(2)	6 dB Bandwidth	Pass
5.1.3	2.1049	99% Occupied Bandwidth	Pass
5.1.4	15.247(e)	Power Spectral Density	Pass
5.1.5	15.247(d)	Conducted Spurious Emissions and Band Edges	Pass
5.1.6	15.247(d) & 15.205 & 15.209	Radiated Spurious Emissions and Band Edges	Pass
5.2.1	15.207	Mains Conducted Emission	Pass

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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APPENDIX A - TEST RESULT OF CONDUCTED

APPENDIX B - TEST RESULT OF RADIATED EMISSIONS & MAINS CONDUCTED EMISSION

APPENDIX SP - PHOTOGRAPHS OF TEST SETUP

APPENDIX EP - PHOTOGRAPHS OF EUT

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HISTORY OF THIS TEST REPORT

Revision	Description	Date Issued
R01	Original Release	2026-05-15

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A - Test Result of Conducted

Appendix B - Test Result of Radiated Emissions & Mains Conducted Emission

Appendix SP - Photographs of Test Setup

Appendix EP - Photographs of EUT

Applied Standard and Test Levels

Radio
FCC 47CFR Part 15: Subpart C Section 15.247
FCC 47CFR Part 2: Subpart J Section 2.1049
ANSI C63.10-2020
KDB 558074 D01 15.247 Meas Guidance v05r02

1.2 Decision Rule of Conformity

The decision rule of conformity of this test report is following the requirements of the requested standard in the quotation, and agreed among testing laboratory and manufacturer (applicant) to exclude the consideration of Measurement Uncertainty, unless it is required by the specific standard.

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2. Test Sites

2.1 Test Laboratory

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

11F. No.758, Sec. 4, Bade Rd., Songshan Dist.
Taipei City 105
Taiwan (R.O.C.)

2.2 Test Facility

TÜV Rheinland Taiwan Ltd. Taipei Testing Laboratories

No.458-18, Sec. 2, Fenliao Rd., Linkou Dist.,
New Taipei City 244
Taiwan (R.O.C.)
FCC Registration No.: 180491 (TW3567)
ISED Registration No.: 25563 (TW3567)

2.3 Traceability

All measurement equipment calibrations are traceable to NML(Taiwan)/NIST(USA) or where calibration is performed outside Taiwan, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically in a suitably accredited Calibration Lab. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicate a 95% level of confidence.

Emission Measurement Uncertainty

Parameter	Uncertainty
Radiated Emission (9 kHz ~ 30 MHz)	± 1.15 dB
Radiated Emission (30 MHz ~ 200 MHz)	± 1.32 dB
Radiated Emission (200 MHz ~ 1 GHz)	± 1.31 dB
Radiated Emission (1 GHz ~ 18 GHz)	± 1.53 dB
Radiated Emission (18 GHz ~ 40 GHz)	± 2.50 dB
Mains Conducted Emission	± 1.65 dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth Low Energy Module. It contains a Bluetooth compatible module enabling the user to communicate data through a Wireless interface.

For details refer to the User Guide, Data Sheet and Circuit Diagram.

3.2 System Details and Ratings

Basic Information of EUT

Item	EUT information
Kind of Equipment/Test Item	Bluetooth Low Energy Module
Type Identification	ES4L15
FCC ID	2A6NFES4L15

Technical Specification of EUT

Item	EUT information
Operating Frequency	2404 MHz ~ 2478 MHz (Channel Sounding)
Channel Number	72
Data Rate	1Mbps, 2Mbps
Operation Voltage	3.0 Vdc
Modulation	GFSK
Maximum Output Power (mW)	5.33
Antenna Information	Refer to 5.1.1
Accessory Device	Refer to 4.4

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3.3 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.4 Submitted Documents

- Circuit Diagram
- Instruction Manual
- Rating Label
- Technical Description

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The test modes were adapted accordingly in reference to the instructions for use.

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output expected by the customer and is going to be fixed on the firmware of the final end product.

Table for Parameters of Test Software Setting

Frequency (MHz)	Power Setting
2404	8
2440	8
2478	8

4.2 Carrier Frequency and Channel

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2	2404	22	2424	45	2447	65	2467
3	2405	26	2428	46	2448	66	2468
4	2406	27	2429	47	2449	67	2469
5	2407	28	2430	48	2450	68	2470
6	2408	29	2431	49	2451	69	2471
7	2409	30	2432	50	2452	70	2472
8	2410	31	2433	51	2453	71	2473
9	2411	32	2434	52	2454	72	2474
10	2412	33	2435	53	2455	73	2475
11	2413	34	2436	54	2456	74	2476
12	2414	35	2437	55	2457	75	2477
13	2415	36	2438	56	2458	76	2478
14	2416	37	2439	57	2459		
15	2417	38	2440	58	2460		
16	2418	39	2441	59	2461		
17	2419	40	2442	60	2462		
18	2420	41	2443	61	2463		
19	2421	42	2444	62	2464		
20	2422	43	2445	63	2465		
21	2423	44	2446	64	2466		

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4.3 Test Operation and Test Software

Setup for testing: Test samples are provided with a USB interface which makes it possible to control them through a test software installed on a notebook computer.

This software was running on the laptop computer connected to the EUT. It was used to enable the operation modes listed as below.

Test Software	Radio Test Tool
---------------	-----------------

The samples were used as follows:

A004250598-002

A004250598-003 & 004

Full test was applied on all test modes, but only worst case was shown.

EUT Configure Mode	Applicable To				Description
	Antenna Port Conducted Measurement	Radiated Spurious Emissions above 1 GHz	Radiated Spurious Emissions below 1 GHz	Mains Conducted Emission	
-	√	√	√	√	-

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when position on **Z-plane**.
- "-" means no effect.

Antenna Port Conducted Measurement

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2404 to 2478	2404, 2440, 2478	1
-	2404 to 2478	2404, 2440, 2478	2

Radiated Spurious Emissions (Above 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2404 to 2478	2404, 2440, 2478	1
-	2404 to 2478	2404, 2440, 2478	2

Radiated Spurious Emissions (Below 1 GHz)

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2404 to 2478	2404	1

Mains Conducted Emission

- ☒ Pre-Scan full test was applied on all test modes, but only worst case was shown.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Frequency (MHz)	Tested Frequency (MHz)	Date Rate (Mbps)
-	2404 to 2478	2404	1

Prüfbericht-Nr.: **CN26T9D9 001**
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Test Item	Ambient Temperature	Relative Humidity	Tested by
Conducted Measurement	22.7-23.2 °C	56-57 %	Jerome Chang
Radiated Spurious Emissions above 1 GHz	22.7-25.5 °C	36-40 %	Chuan Chu
Radiated Spurious Emissions below 1 GHz	22.7-25.5 °C	36-40 %	Chuan Chu
Mains Conducted Emission	23.5 °C	66 %	Chuan Chu

4.4 Special Accessories and Auxiliary Equipment

The product has been tested together with the following additional accessories:

Accessory of EUT

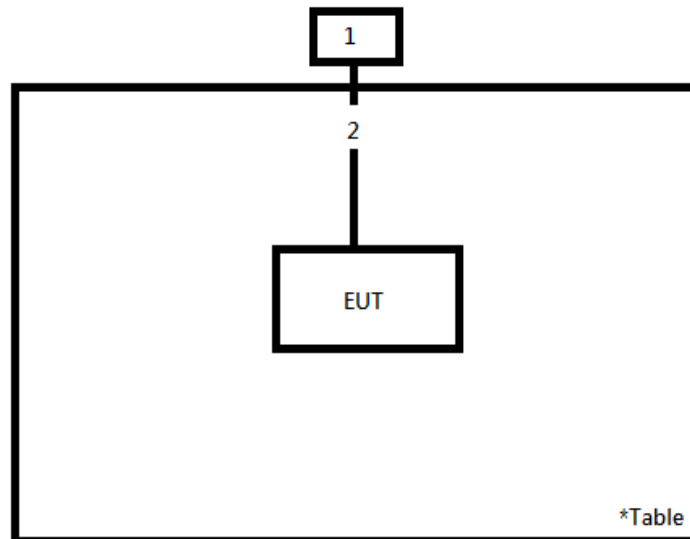
None

Support Unit

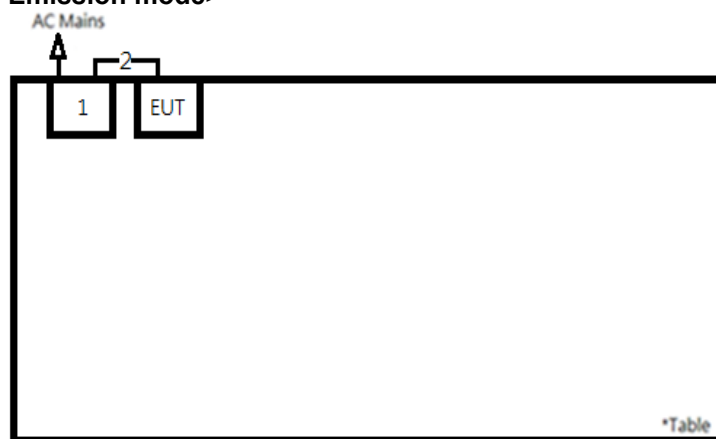
Support Unit								
No	Description	Brand	Model	S/N	Shielded	Ferrite Core (Qty)	Length (cm)	Remark
1	DC Power Supply	Gwinstek	GPS-3303	N/A	-	-	-	--
2	Cable	TUV	TUV-01	N/A	N/A	NA	180	--

4.5 Test Setup Diagram

<Radiated Spurious Emissions mode>



<Mains Conducted Emission mode>

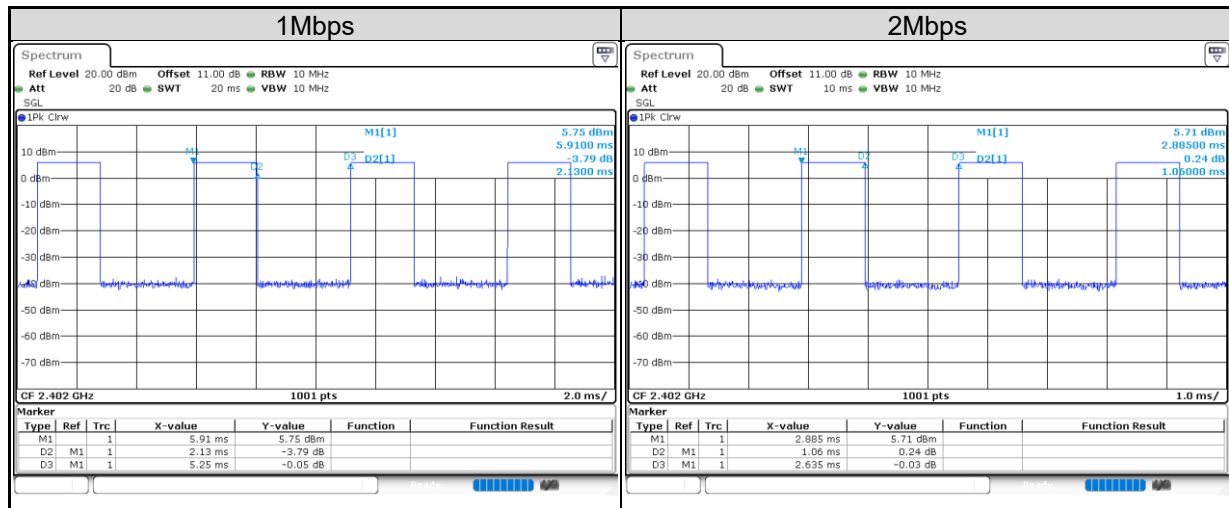


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4.6 Duty Cycle of Test Signal

Mode	On + Off Time (ms)	On Time (ms)	Duty Cycle (%)	Duty Factor (dB)
1Mbps	5.25	2.13	40.57	3.92
2Mbps	2.64	1.06	40.23	3.95



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5. Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

Requirement Use of approved antennas only

According to the manufacturer declaration, the EUT has an antenna with a directional gain of -4.8 dBi. The antenna is monopole antenna with no possibility of replacement with a non-approved antenna by the end-user. Therefore, the EUT is considered to comply with this provision.
Refer to EUT photo for details.

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5.1.2 Peak Output Power

Limit 1 watt (30 dBm)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Power Meter	Anritsu	ML2495A	1901008	2026/02/24	2027/02/23	2026/05/11	2026/05/11
Power Sensor	Anritsu	MA2411B	1725269	2026/02/24	2027/02/23	2026/05/11	2026/05/11

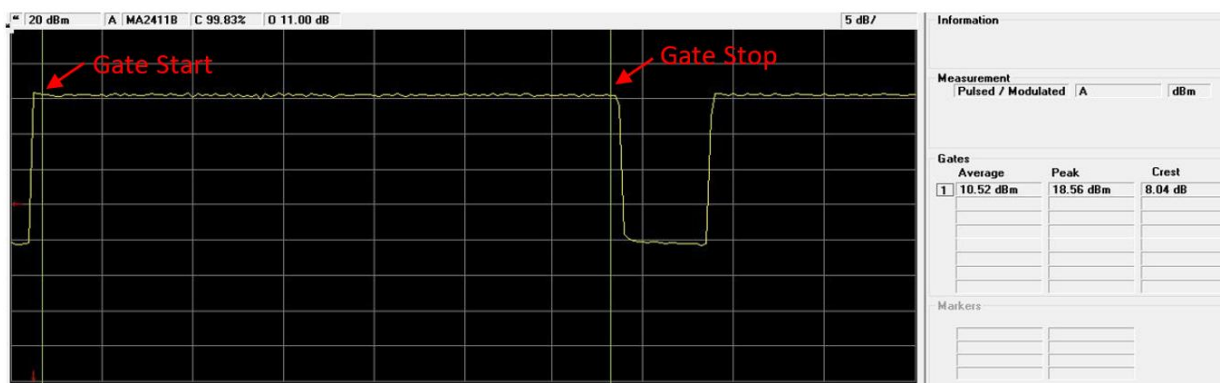
Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

Gate Setup:

1. Select the [Gates] tab in the software.
2. Check the box (e.g., Gate 1) to display it on the trace.
3. Set Gate Position
 - Drag the gate line with the mouse to the desired point on the waveform, or
 - Enter Values using the [Set] button and input start/stop times.
4. Switch to the next measurement channel and repeat the same gate setup procedure.
5. The instrument calculates average/peak power only within the defined gate interval.



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Test Result
Peak Output Power
<1Mbps>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2404	7.27	5.33	30
Middle Channel	2440	7.22	5.27	30
High Channel	2478	7.17	5.21	30

<2Mbps>

Channel	Channel Frequency	Peak Output Power		Limit (dBm)
	(MHz)	(dBm)	(mW)	
Low Channel	2404	7.26	5.32	30
Middle Channel	2440	7.24	5.30	30
High Channel	2478	7.23	5.28	30

Average Power
<1Mbps>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2404	7.19	5.24
Middle Channel	2440	7.15	5.19
High Channel	2478	7.11	5.14

<2Mbps>

Channel	Channel Frequency	Average Power	
	(MHz)	(dBm)	(mW)
Low Channel	2404	7.18	5.22
Middle Channel	2440	7.15	5.19
High Channel	2478	7.14	5.18

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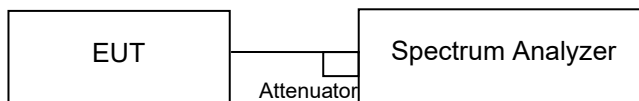
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5.1.3 6 dB Bandwidth and 99% Occupied Bandwidth

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

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2026/02/24	2027/02/23	2026/05/11	2026/05/11

Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.
- For 99% occupied bandwidth measurement, the transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to PEAK. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

Test Results

Please refer to Appendix A.

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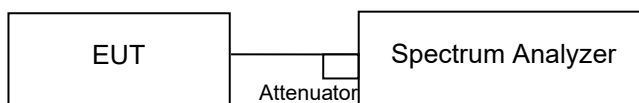
5.1.4 Power Spectral Density

Limit

The power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2026/02/24	2027/02/23	2026/05/11	2026/05/11

Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Results

Please refer to Appendix A.

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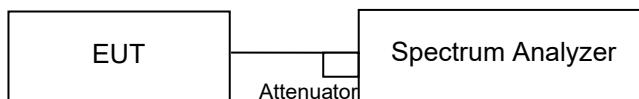
5.1.5 Conducted Spurious Emissions and Frequency Band Edges Measured in 100kHz Bandwidth

Limit

20dB (below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.)

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date	Test Date	
						From	Until
Spectrum Analyzer	R&S	FSV	101512	2026/02/24	2027/02/23	2026/05/11	2026/05/11

Test Procedure

Measurement procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement procedure OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Results

Please refer to Appendix A.

5.1.6 Radiated Spurious Emissions and Band Edges

Limit

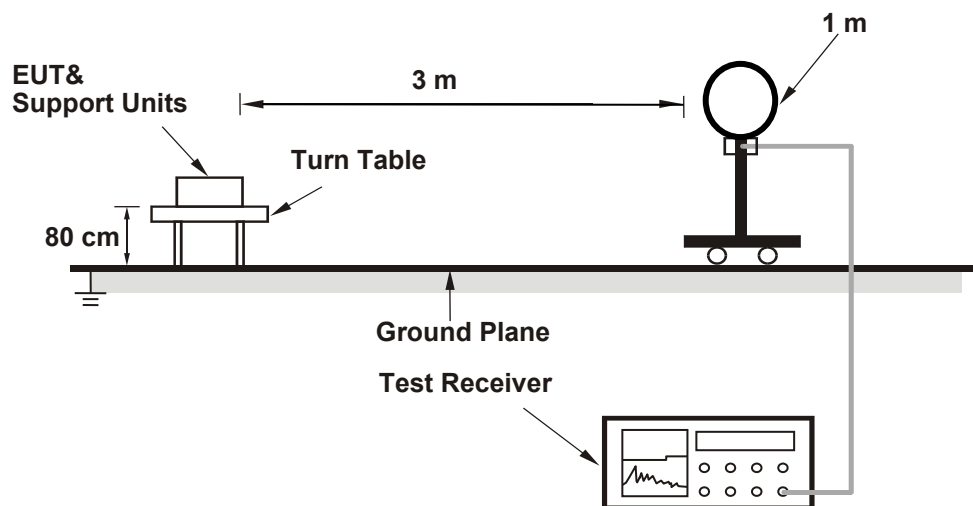
Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must comply with the radiated emission limits specified in §15.209(a).

Emissions radiated outside the restricted and authorized frequency bands must either comply with the radiated emission limits specified for the restricted bands or in §15.247(d).

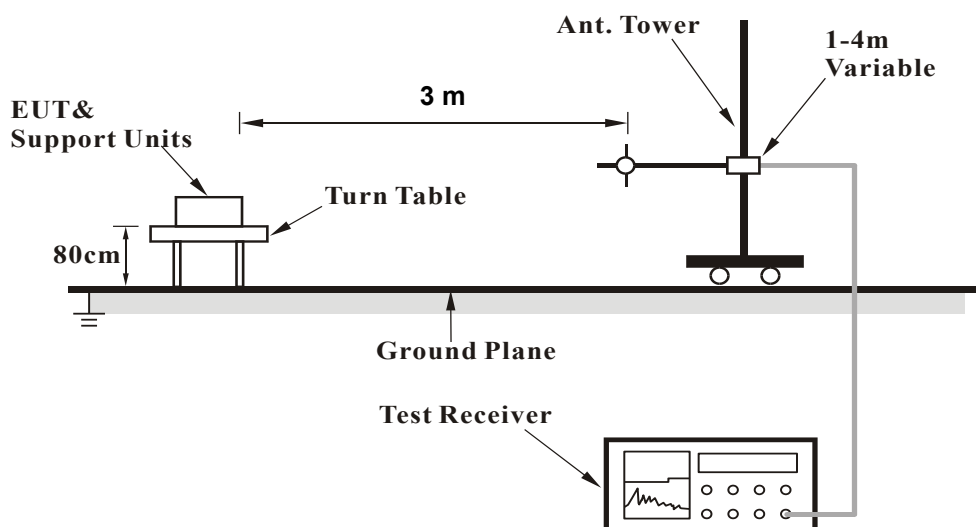
Kind of Test Site 3m Semi-Anechoic Chamber

Test Setup

<Radiated Emissions below 30 MHz>



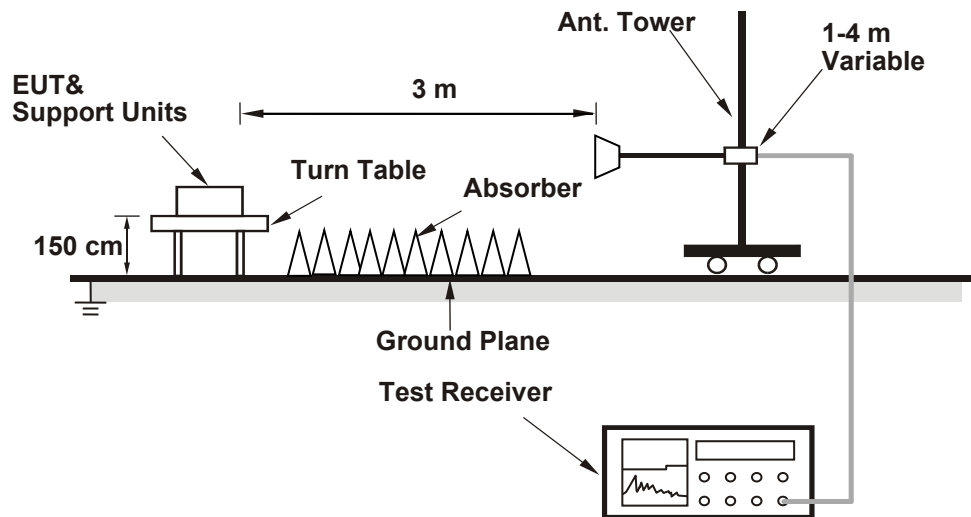
<Radiated Emissions 30 MHz to 1 GHz>



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<Radiated Emissions above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Above 1 GHz					
Signal Analyzer	R&S	FSV40	101513	2025/5/14	2026/5/13
Horn Antenna	ETS-Lindgren	3117	00218929	2025/11/20	2026/11/19
Horn Antenna	SCHWARZBECK	BBHA 9170	00896	2026/1/16	2027/1/15
HF-AMP + AC source	EMCI	EMC051845SE	980633	2026/1/15	2027/1/14
HF-AMP + AC source	EMCI	EMC051845SE	980656	2026/1/15	2027/1/14
Microwave Cable	EMCI	EM102A-KMKM-700	504231101002	2025/5/23	2026/5/22
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	800902/2EA	2025/6/6	2026/6/5
Microwave Cable	HUBER+SUHNER	SUCOFLEX 102EA	801026/2EA	2025/6/6	2026/6/5
3G High Pass Filter	EMCI	ZHPF3180	08223315	2025/12/18	2026/12/17
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A
30 MHz ~ 1 GHz					
Receiver	R&S	ESR7	102109	2026/02/04	2027/02/03
Bilog Antenna	SCHWARZBECK	VULB-9168	00950	2025/05/15	2026/05/14
LF-AMP	Agilent	8447D	2727A05146	2026/01/15	2027/01/14
Microwave Cable	EMCI	RG 214 U/2*11N/7M	24038601	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	802244/4	2026/02/25	2027/02/24
Microwave Cable	HUBER+SUHNER	SUCOFLEX 104	MY37203/4	2026/02/25	2027/02/24
Test Software	Audix E3	15914a_20191106 tuv	PK-001087	N/A	N/A

Test Procedures**For Radiated Emissions below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel (OPEN), perpendicular (CLOSE), and ground-parallel (GROUND) orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated Emissions above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.
5. The Radiated Emissions testing was performed in the X(E1), Y(H) and Z(E2) axis orientation. The worst-case Axis orientation is recorded in this test report.
6. The emission levels of other frequencies (including the 10th harmonic of the highest fundamental frequency) are very lower than the limit and are not shown in the test report.

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Test Results

Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) – Amplifier (dB)

Level (dBuV/m) = Reading (dBuV) + Factor (dB/m)

Please refer to Appendix B.

Note: The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated at least 20 dB below the permissible value to be reported.

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5.2 Mains Emission

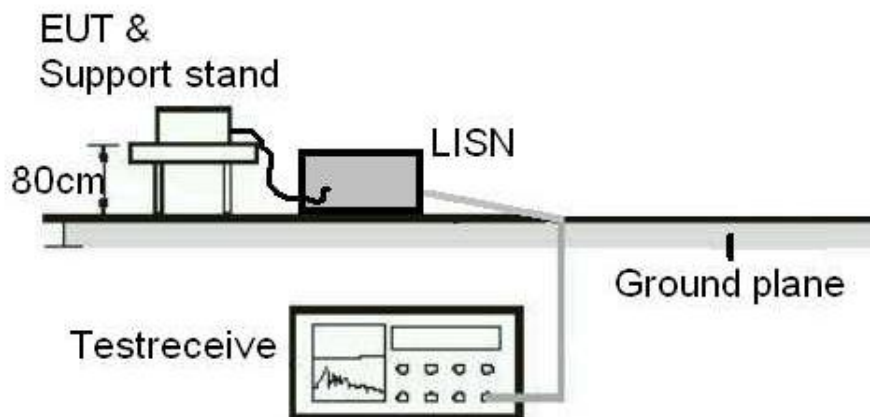
5.2.1 Mains Conducted Emission

Limit

Mains Conducted Emission as defined in §15.207 must comply with the mains conducted emission limits.

Kind of Test Site Shielded room

Test Setup



Test Instruments

Kind of Equipment	Manufacturer	Type	S/N	Calibration Date	Calibration Due Date
Two-Line V-Network	SCHWARZBECK	NSLK 8127	8127-00976	2026/01/07	2027/01/06
EMI Test Receiver	R&S	ESCI	101094	2025/11/19	2026/11/18

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Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

Test Results

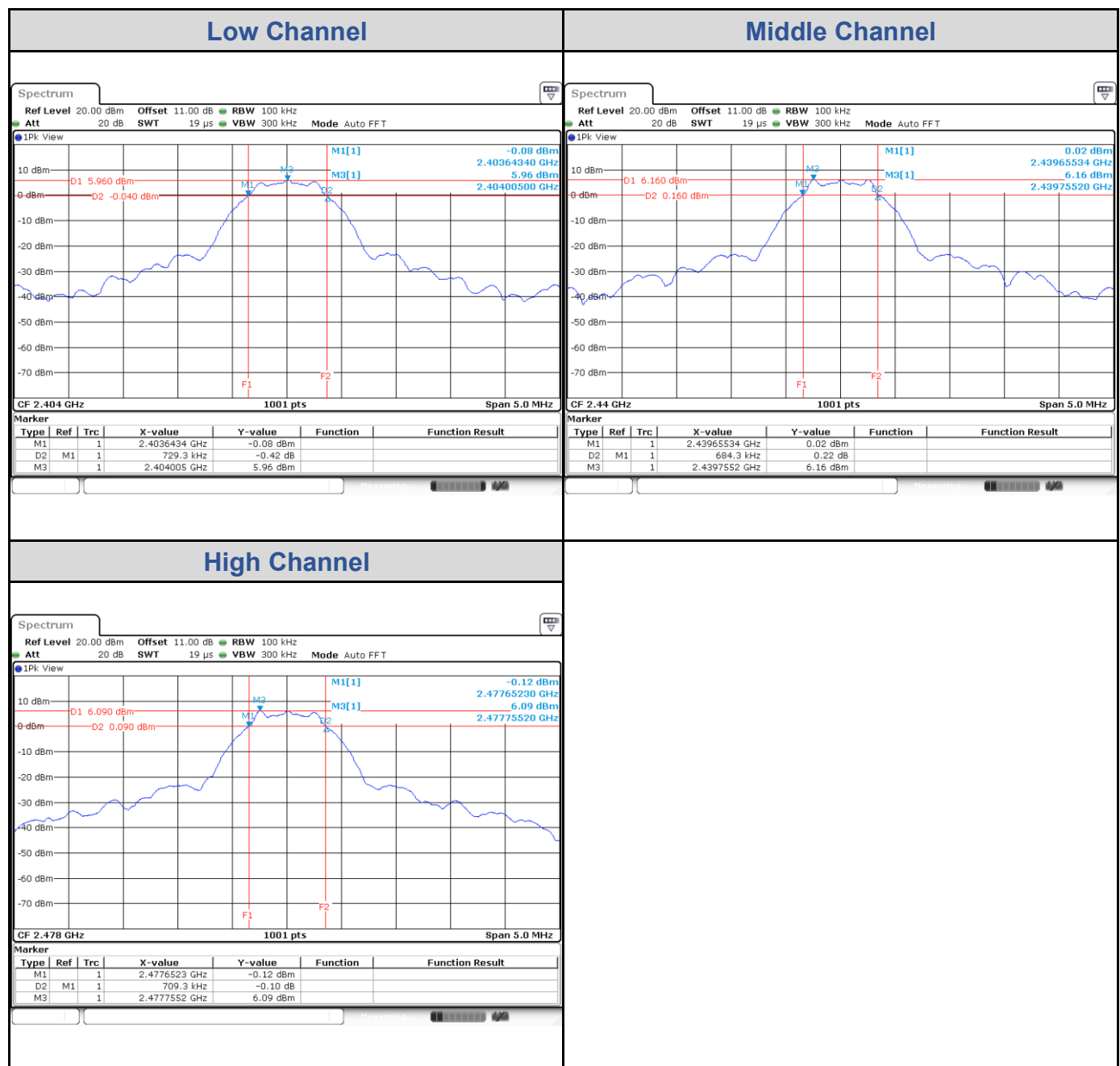
Please refer to Appendix B.

Appendix A: Test Results of Conducted Test

Test Result of 6 dB Bandwidth

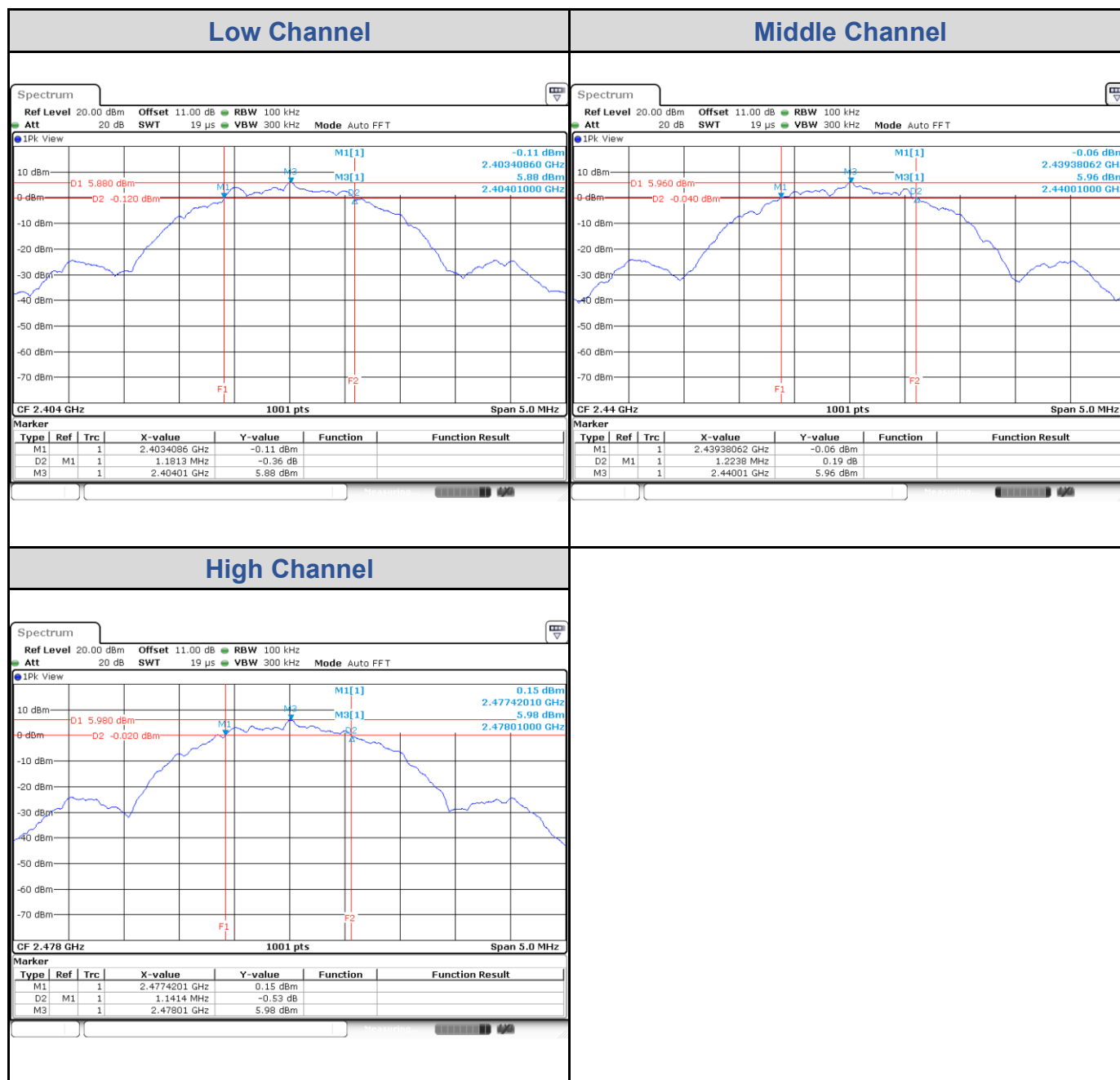
BLE_1M

Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2404	0.73	0.5	Pass
Middle Channel	2440	0.68	0.5	Pass
High Channel	2478	0.71	0.5	Pass



BLE_2M

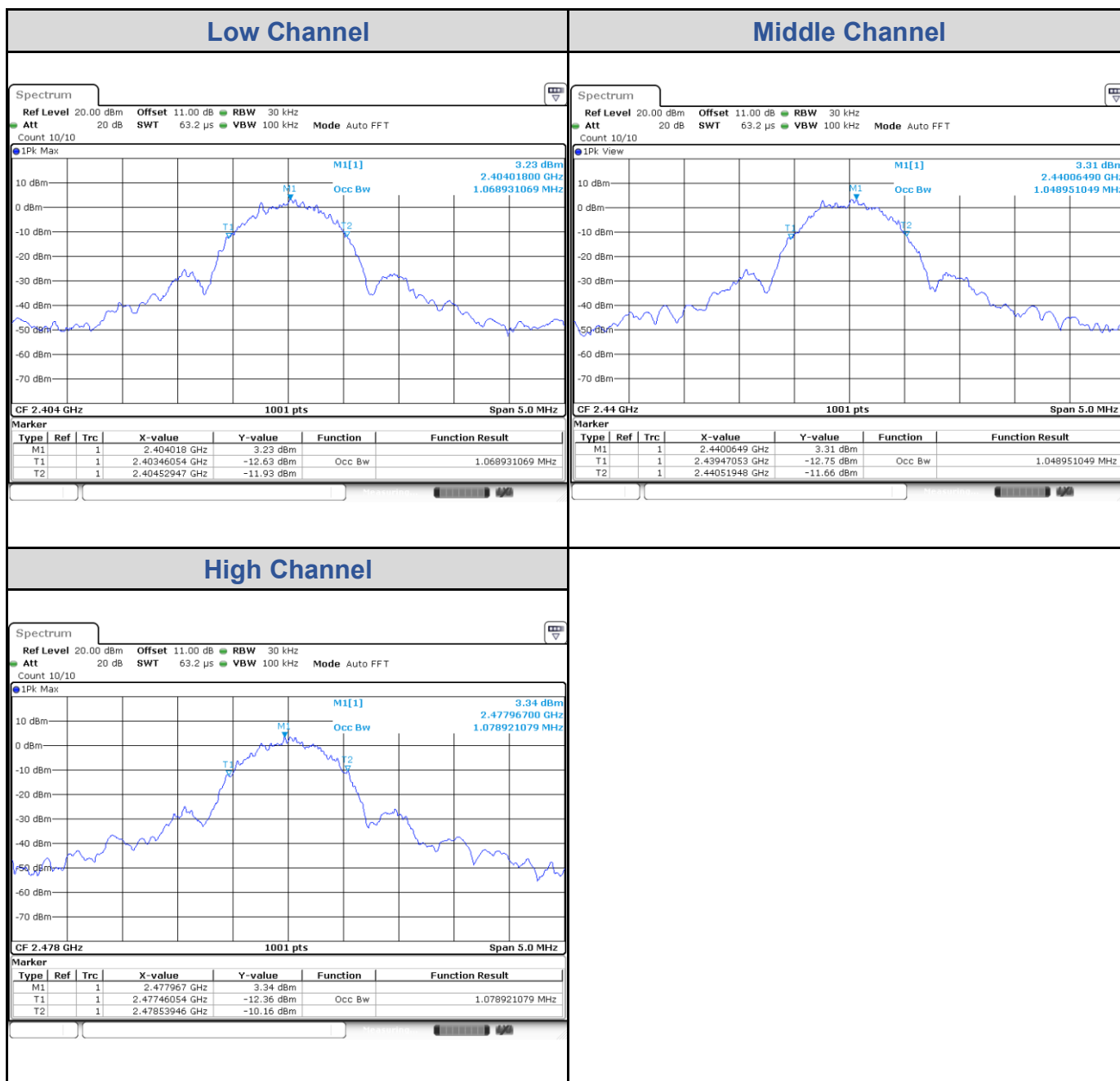
Channel	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
Low Channel	2404	1.18	0.5	Pass
Middle Channel	2440	1.22	0.5	Pass
High Channel	2478	1.14	0.5	Pass



Test Result of 99% Occupied Bandwidth

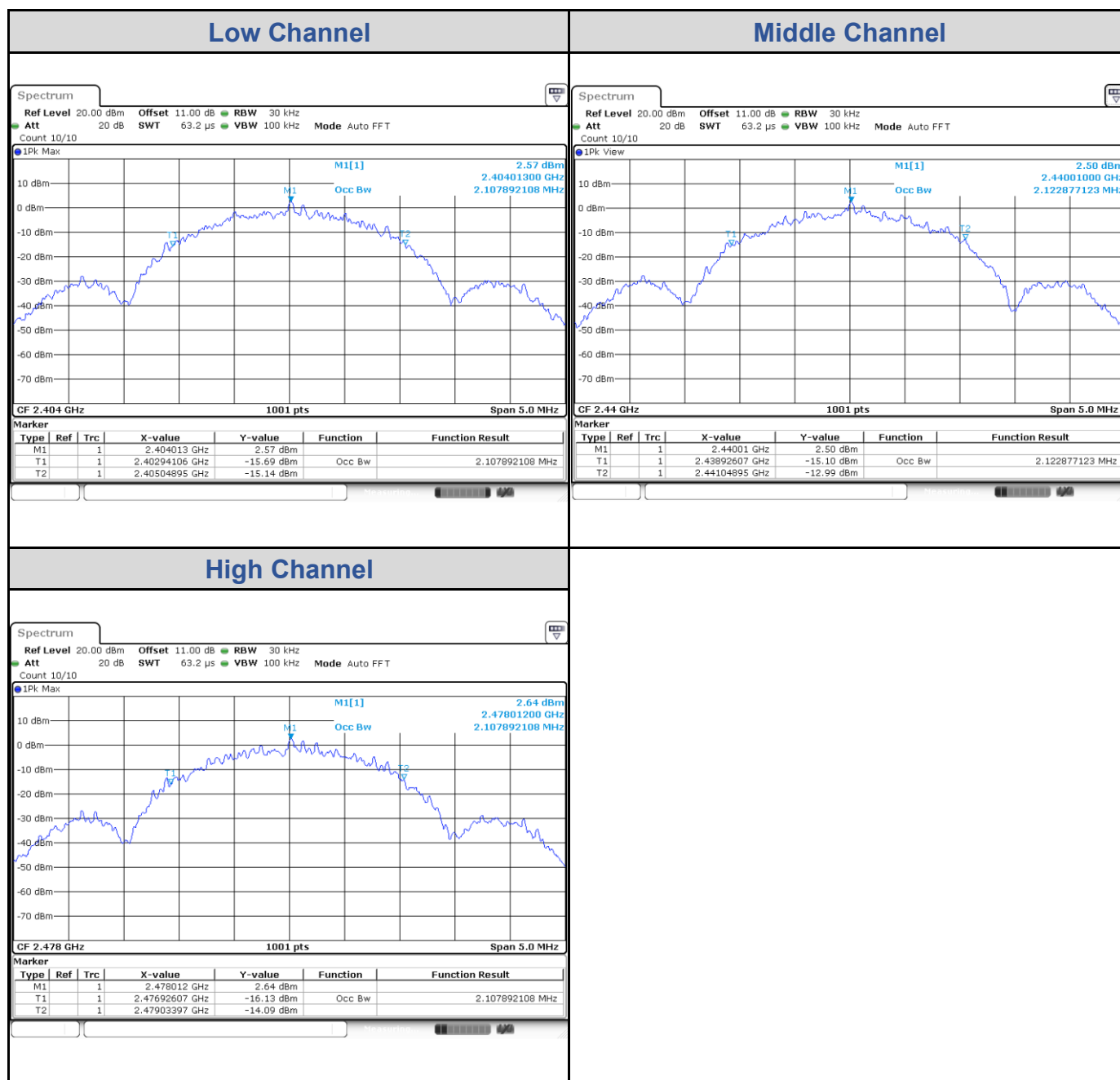
BLE_1M

Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2404	1.07
Middle Channel	2440	1.05
High Channel	2478	1.08



BLE_2M

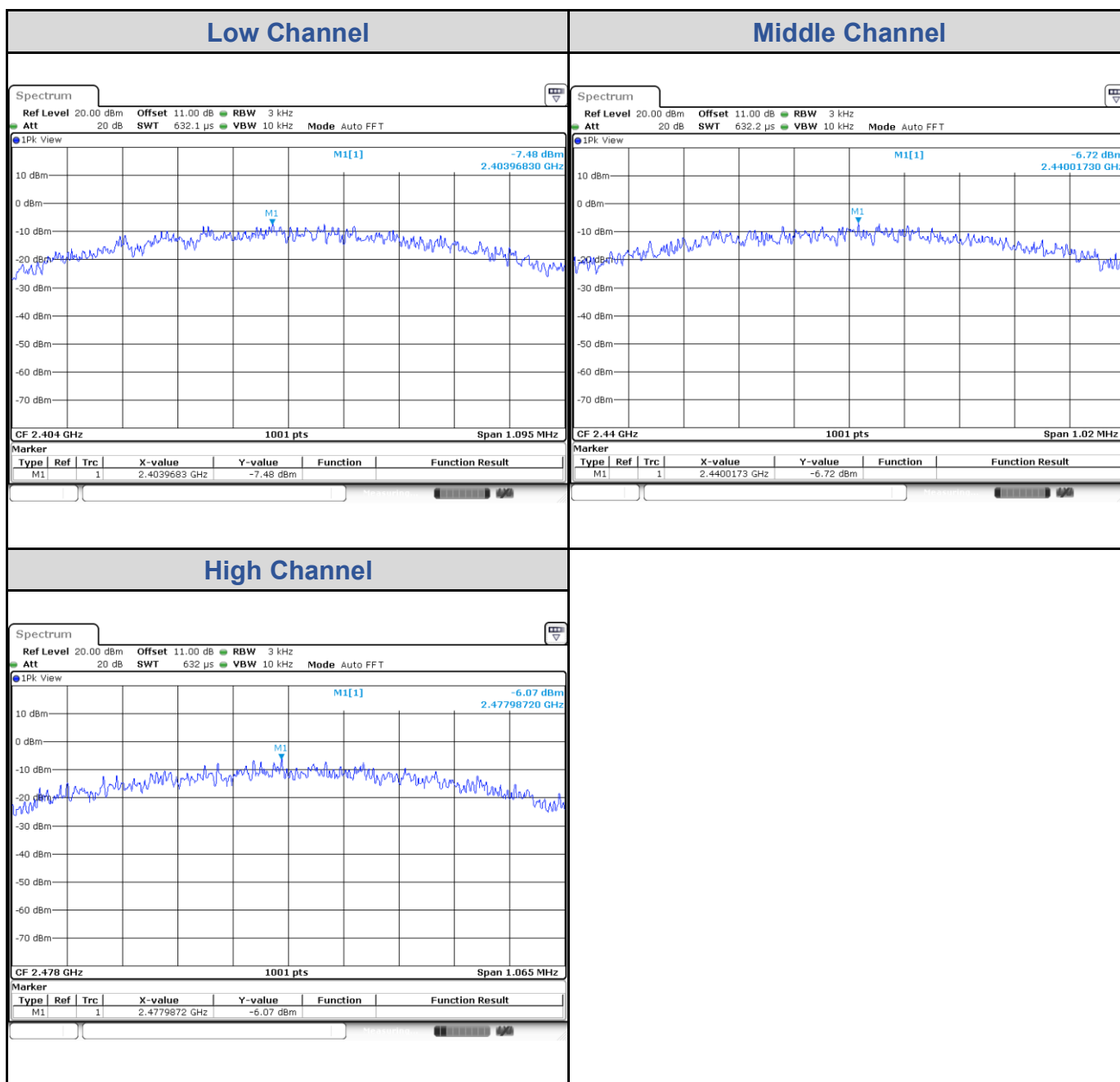
Channel	Channel Frequency (MHz)	99% Bandwidth (MHz)
Low Channel	2404	2.11
Middle Channel	2440	2.12
High Channel	2478	2.11



Test Result of Power Spectral Density

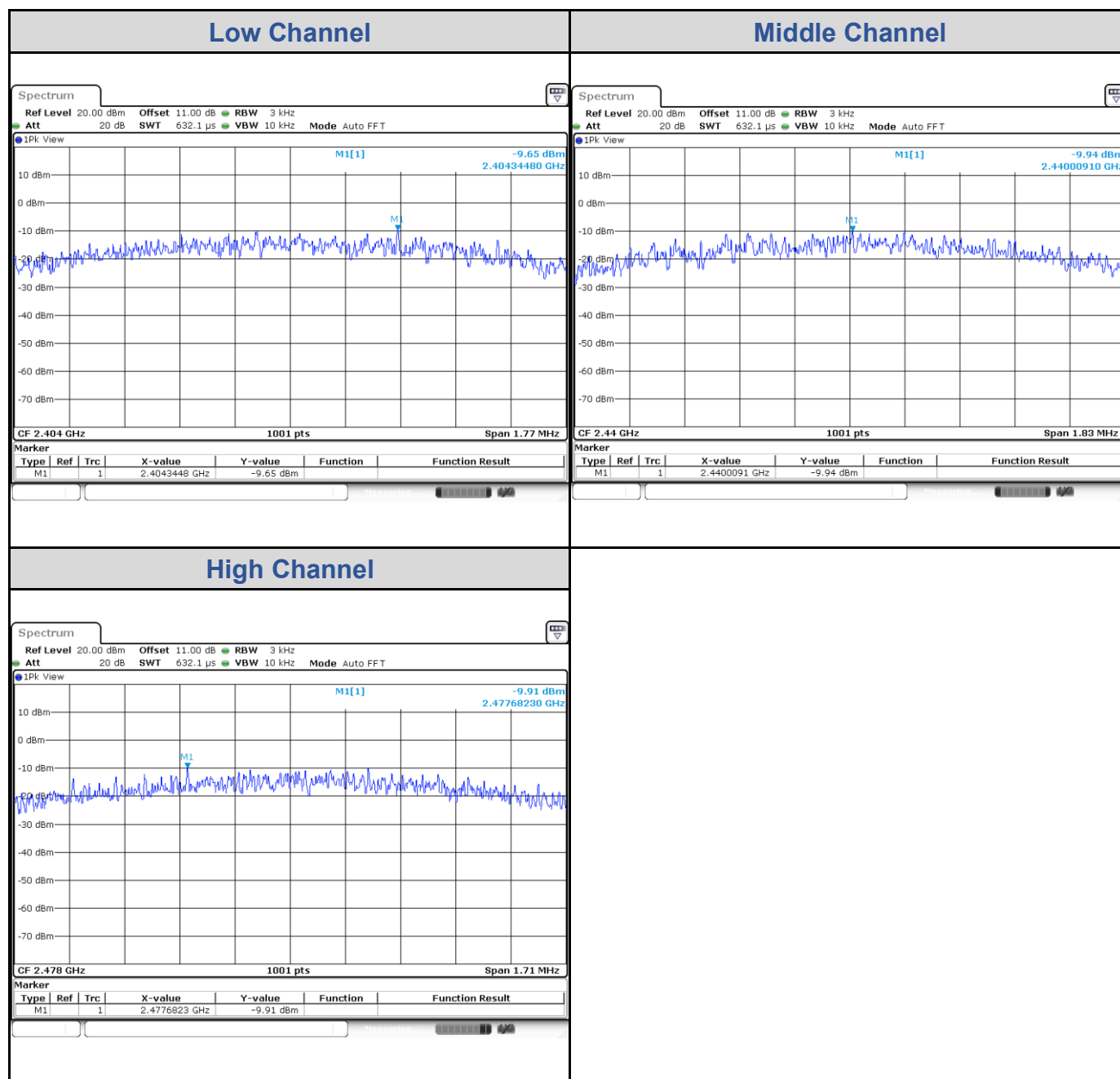
BLE_1M

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2404	-7.48	8	Pass
Middle Channel	2440	-6.72	8	Pass
High Channel	2478	-6.07	8	Pass



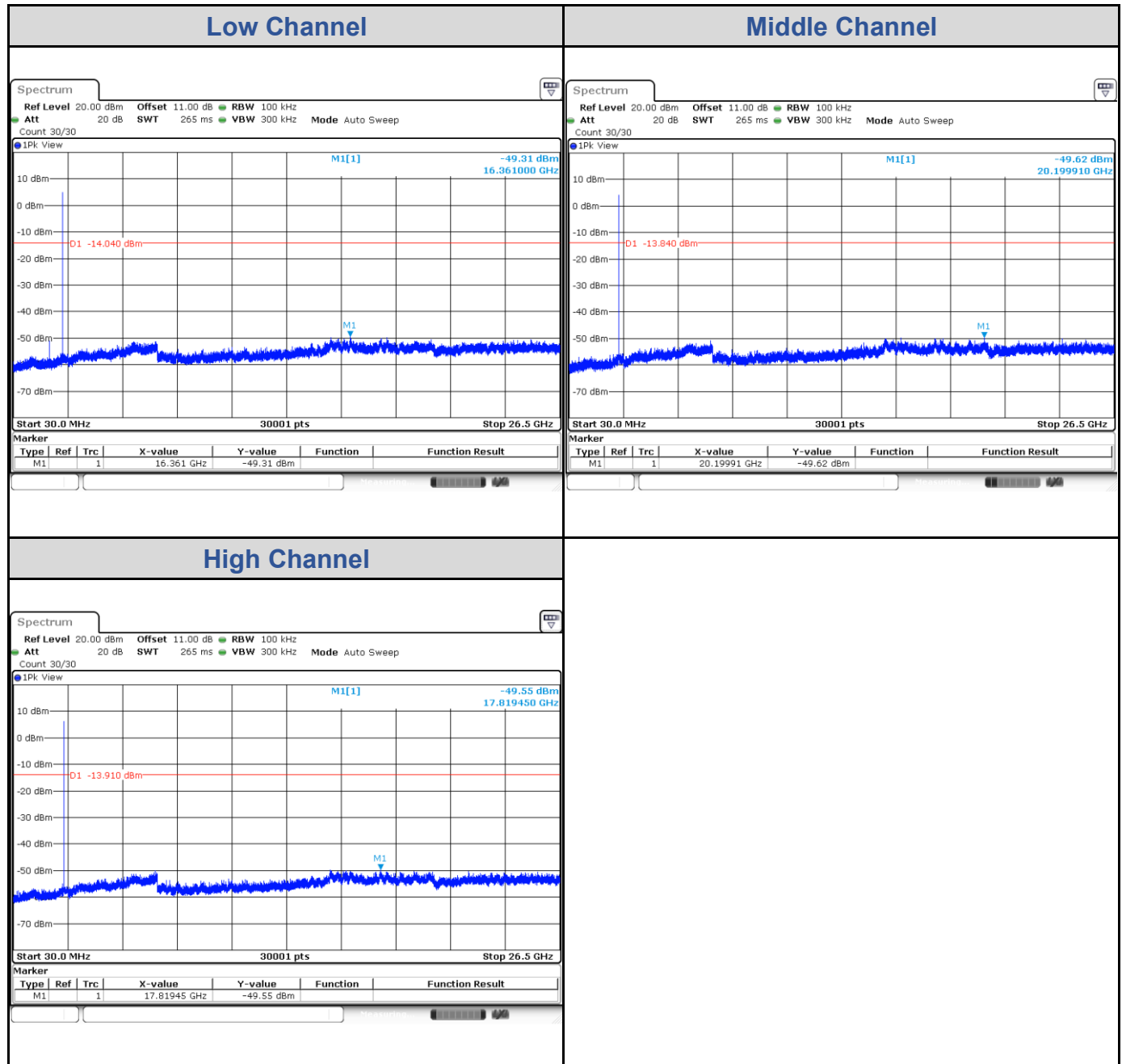
BLE_2M

Channel	Channel Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Low Channel	2404	-9.65	8	Pass
Middle Channel	2440	-9.94	8	Pass
High Channel	2478	-9.91	8	Pass

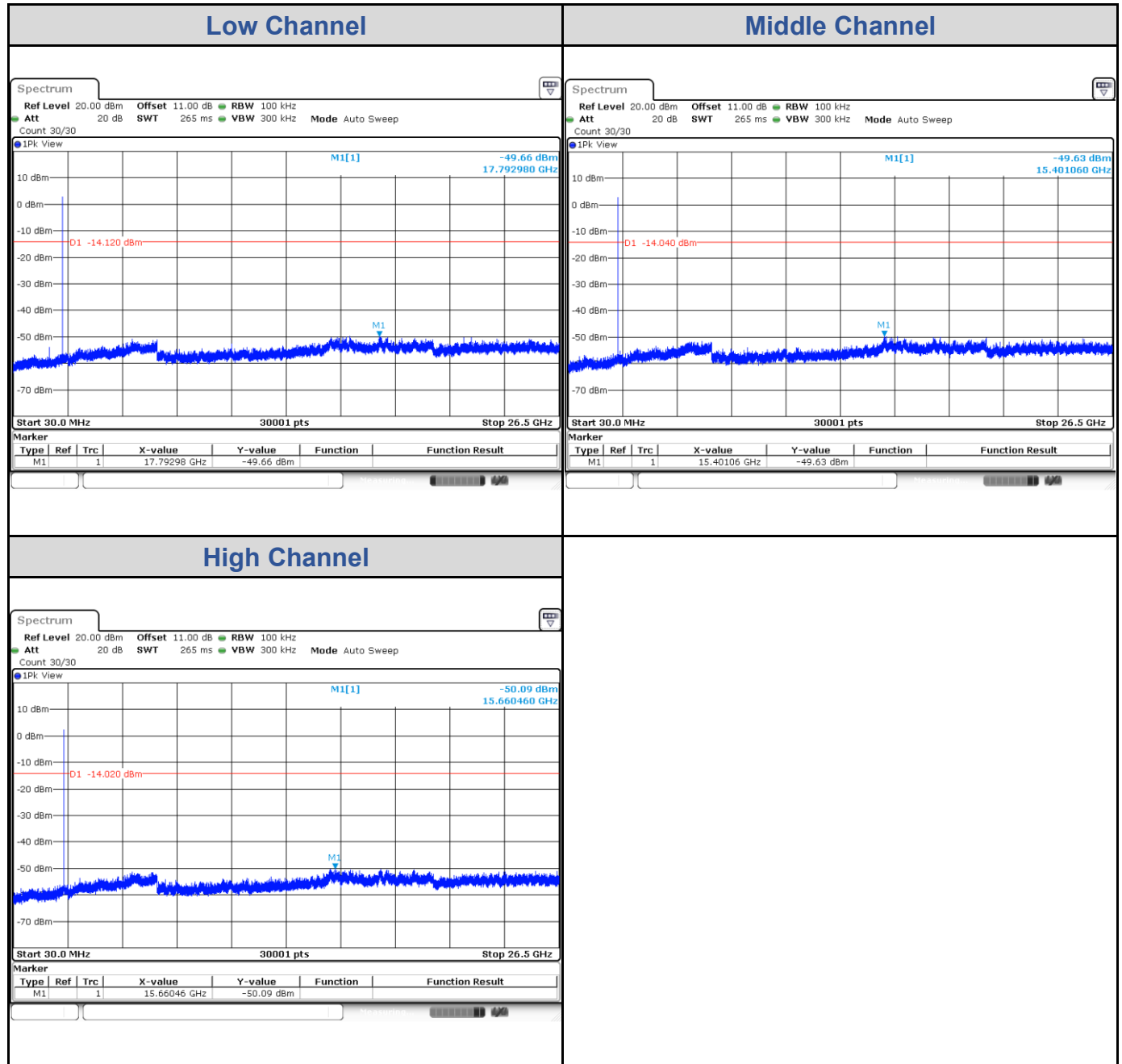


Test Result of Conducted Spurious Emissions

BLE_1M

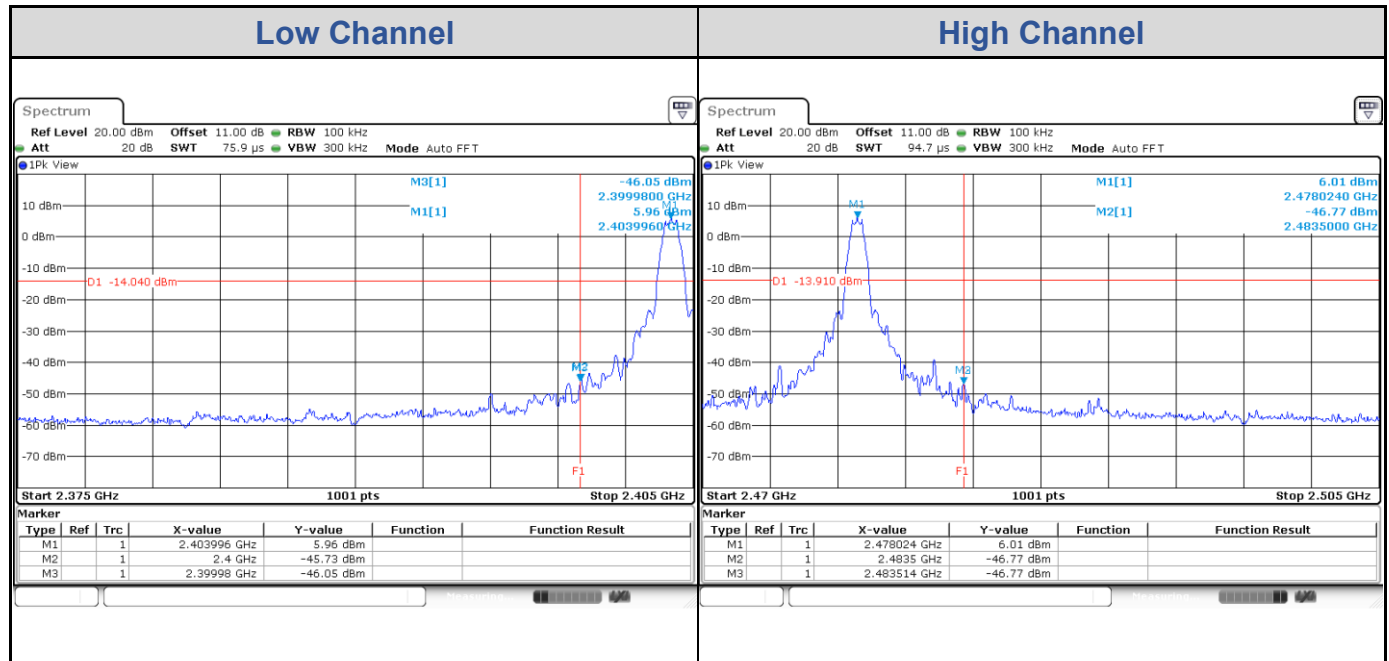


BLE_2M

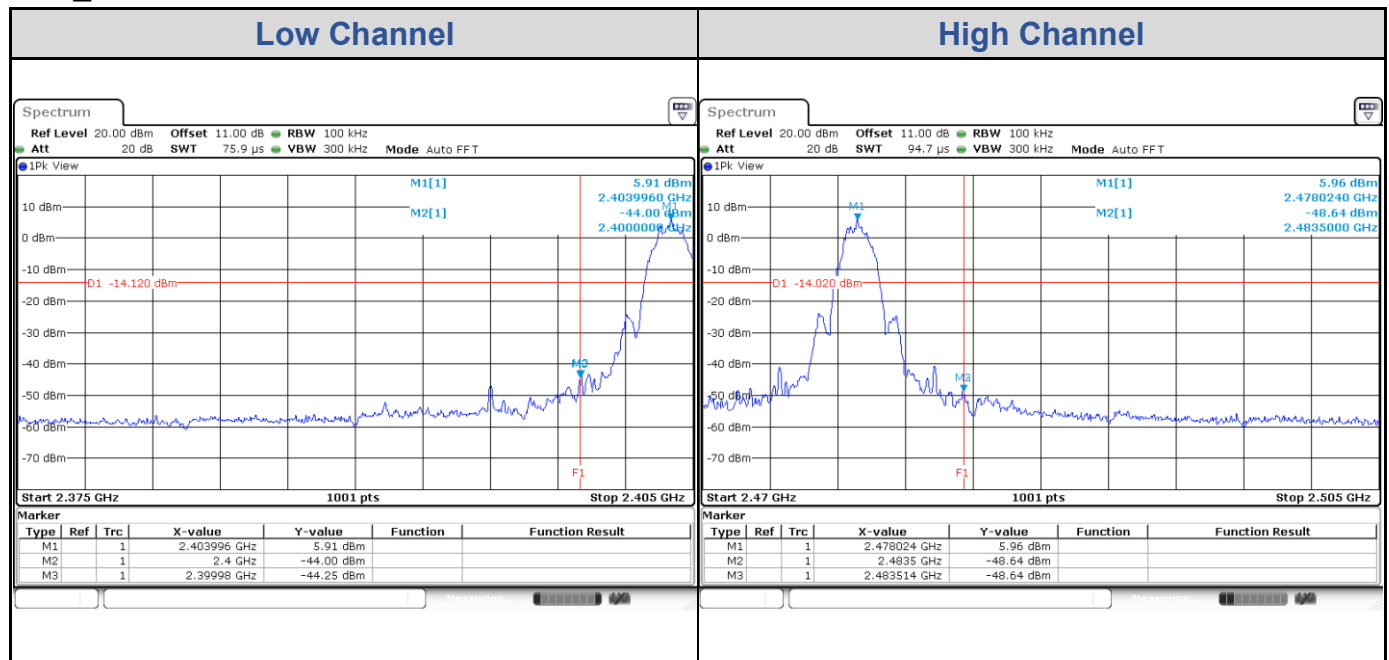


Test Result of Conducted Band Edge

BLE_1M



BLE_2M



Appendix B: Test Results of Radiated Spurious Emissions & Mains Conducted Emission Test

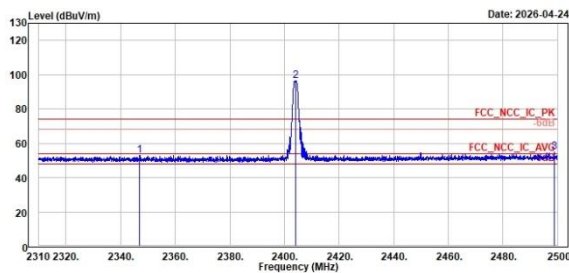
Band Edges, 2.31GHz ~ 2.5GHz

BLE CHANNEL SOUNDING_1M

Low Channel (Horizontal) Peak



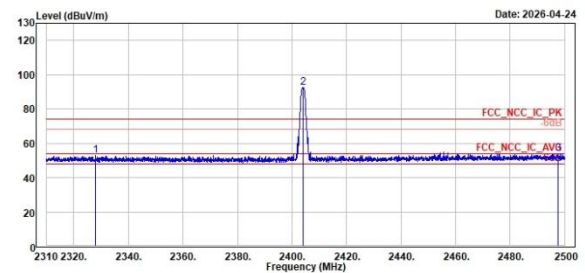
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	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2347.05	52.93	16.27	36.66	74.00	-21.07	143	275 Peak	Horizontal	
2 *	2404.00	96.56	60.81	36.55	74.00	22.56	143	275 Peak	Horizontal	
3	2498.81	54.75	17.45	37.30	74.00	-19.25	143	275 Peak	Horizontal	



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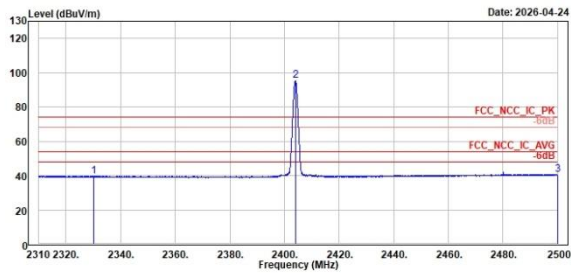
	Freq	Level	Read	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	2328.05	52.97	16.33	36.64	74.00	-21.03	130	111 Peak	Vertical	
2 *	2404.00	92.42	55.87	36.55	74.00	18.42	130	111 Peak	Vertical	
3	2497.53	53.72	16.42	37.30	74.00	-20.28	130	111 Peak	Vertical	

BLE CHANNEL SOUNDING_1M

Low Channel (Horizontal) Average



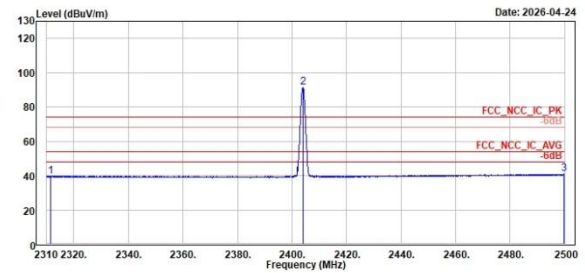
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2330.14	39.69	3.05	36.64	54.00	-14.31	143	275	Average	Horizontal		
2 *	2404.00	95.49	58.94	36.55	54.00	41.49	143	275	Average	Horizontal		
3	2499.95	40.68	3.37	37.31	54.00	-13.32	143	275	Average	Horizontal		



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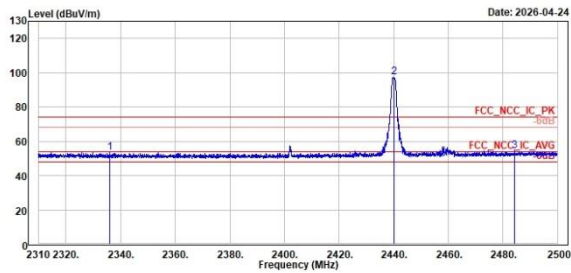
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.43	39.74	3.12	36.62	54.00	-14.26	130	111	Average	Vertical		
2 *	2404.00	91.35	54.80	36.55	54.00	37.35	130	111	Average	Vertical		
3	2499.67	40.78	3.47	37.31	54.00	-13.22	130	111	Average	Vertical		

BLE CHANNEL SOUNDING_1M

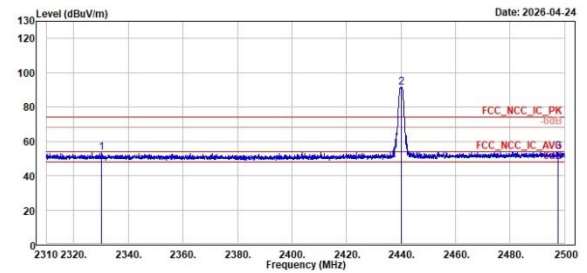
Middle Channel (Horizontal) Peak



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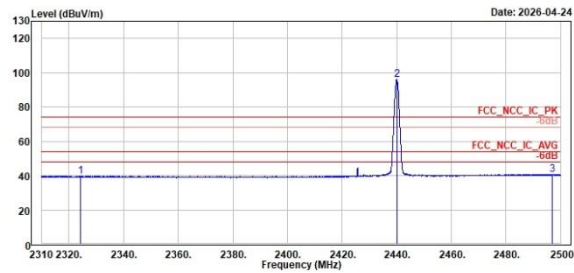


BLE CHANNEL SOUNDING_1M

Middle Channel (Horizontal) Average



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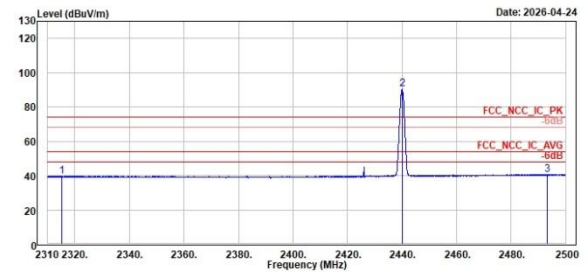


	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2324.38	39.67	3.03	36.64	54.00	-14.33	110	279	Average	Horizontal		
2 *	2440.00	96.02	59.15	36.87	54.00	42.02	110	279	Average	Horizontal		
3	2496.87	40.59	3.30	37.29	54.00	-13.41	110	279	Average	Horizontal		

Middle Channel (Vertical) Average



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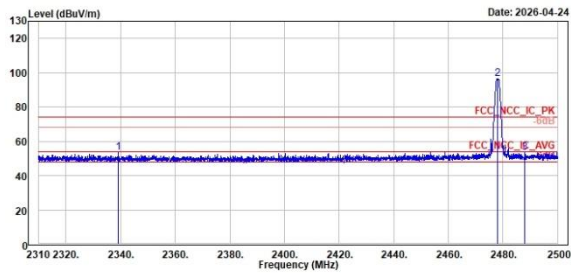
	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2315.32	39.70	3.07	36.63	54.00	-14.30	100	180	Average	Vertical		
2 *	2440.00	90.21	53.34	36.87	54.00	36.21	100	180	Average	Vertical		
3	2493.11	40.65	3.38	37.27	54.00	-13.35	100	180	Average	Vertical		

BLE CHANNEL SOUNDING_1M

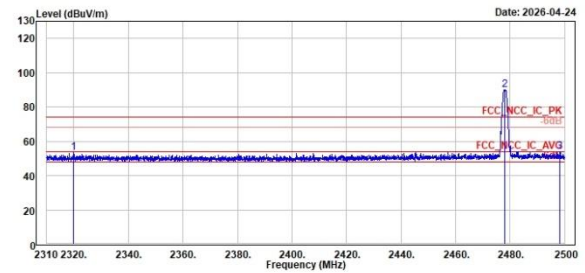
High Channel (Horizontal) Peak



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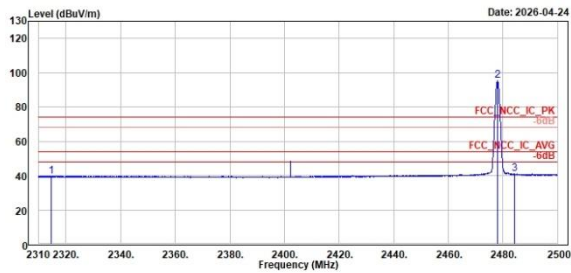


BLE CHANNEL SOUNDING_1M

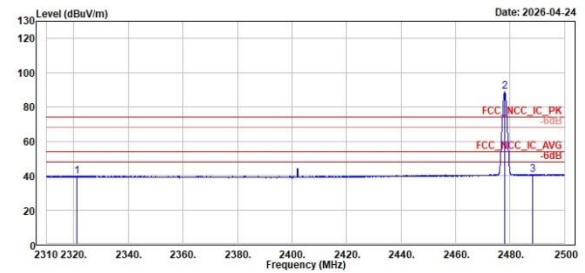
High Channel (Horizontal) Average



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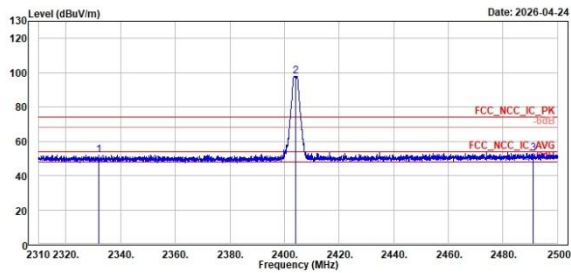


BLE CHANNEL SOUNDING_2M

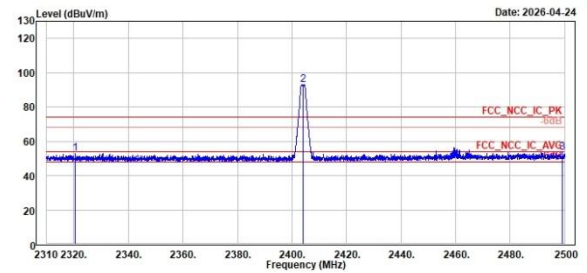
Low Channel (Horizontal) Peak



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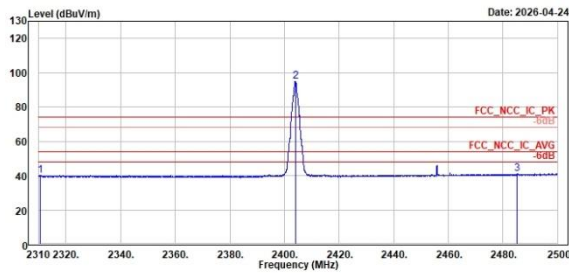


BLE CHANNEL SOUNDING_2M

Low Channel (Horizontal) Average



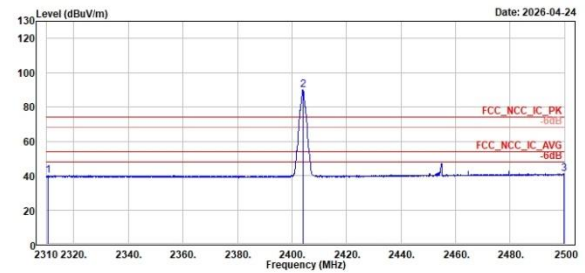
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2310.52	40.09	3.47	36.62	54.00	-13.91	302	278	Average	Horizontal		
2 *	2404.00	95.02	58.47	36.55	54.00	41.02	302	278	Average	Horizontal		
3	2495.28	40.98	3.77	37.21	54.00	-13.02	302	278	Average	Horizontal		



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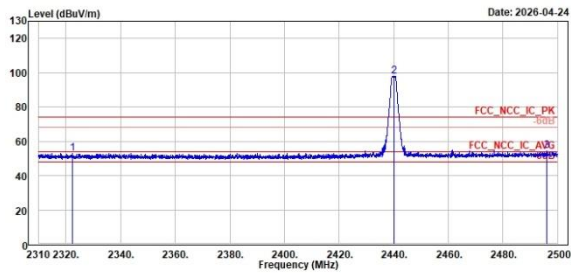
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1	2310.57	39.99	3.37	36.62	54.00	-14.01	105	169	Average	Vertical		
2 *	2404.00	90.13	53.58	36.55	54.00	36.13	105	169	Average	Vertical		
3	2499.72	41.01	3.70	37.31	54.00	-12.99	105	169	Average	Vertical		

BLE CHANNEL SOUNDING_2M

Middle Channel (Horizontal) Peak



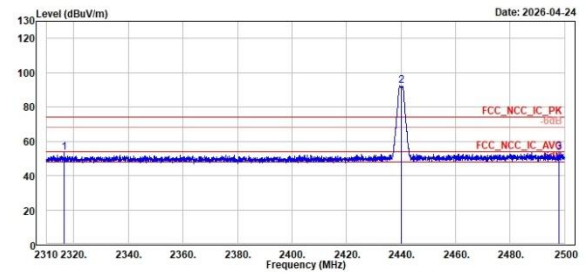
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2322.38	53.09	16.45	36.64	74.00	-20.91	269	283	Peak	Horizontal		
2 *	2440.00	97.93	61.06	36.87	74.00	23.93	269	283	Peak	Horizontal		
3	2496.15	54.14	16.85	37.29	74.00	-19.86	269	283	Peak	Horizontal		



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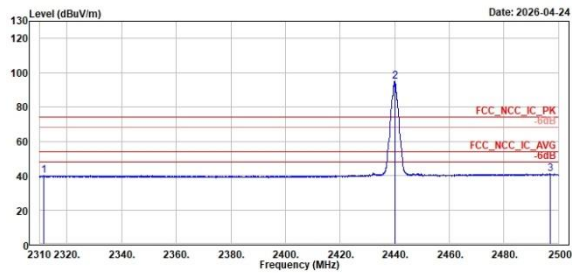
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2316.46	53.19	16.56	36.63	74.00	-20.81	100	275	Peak	Vertical		
2 *	2440.00	92.25	55.38	36.87	74.00	18.25	100	275	Peak	Vertical		
3	2497.96	53.52	16.22	37.30	74.00	-20.48	100	275	Peak	Vertical		

BLE CHANNEL SOUNDING_2M

Middle Channel (Horizontal) Average



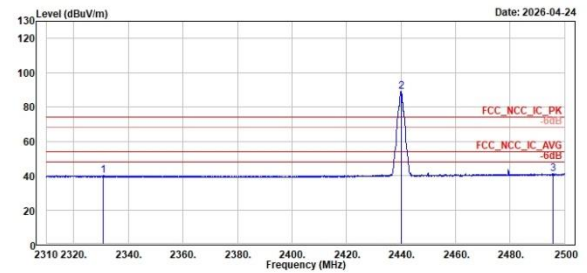
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2311.57	39.97	3.35	36.62	54.00	-14.03	269	283	Average	Horizontal		
2 *	2440.00	94.93	58.06	36.87	54.00	40.93	269	283	Average	Horizontal		
3	2496.87	40.94	3.65	37.29	54.00	-13.06	269	283	Average	Horizontal		



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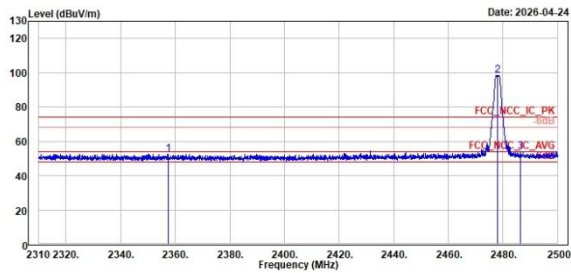
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	2330.90	39.93	3.29	36.64	54.00	-14.07	100	275	Average	Vertical		
2 *	2440.00	89.21	52.34	36.87	54.00	35.21	100	275	Average	Vertical		
3	2495.63	41.01	3.73	37.28	54.00	-12.99	100	275	Average	Vertical		

BLE CHANNEL SOUNDING_2M

High Channel (Horizontal) Peak



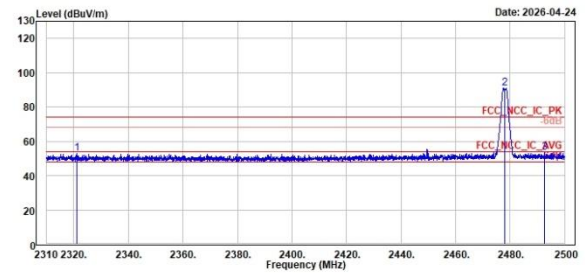
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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2357.41	52.64	16.00	36.64	74.00	-21.36	292	284 Peak	Horizontal		
2 *	2478.00	98.50	61.34	37.16	74.00	24.50	292	284 Peak	Horizontal		
3	2486.46	54.07	16.85	37.22	74.00	-19.93	292	284 Peak	Horizontal		



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Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	2321.12	52.88	16.25	36.63	74.00	-21.12	100	171 Peak	Vertical		
2 *	2478.00	90.86	53.70	37.16	74.00	16.86	100	171 Peak	Vertical		
3	2492.54	53.49	16.22	37.27	74.00	-20.51	100	171 Peak	Vertical		

	Freq	Level	Read Level	Factor	Limit	Over Limit	APos	TPos	Remark	Pol/Phase	Note
	Hz	dBu/m	dBu	dB/m	dBu/m	dB	cm	deg			
1	2313.75	40.05	3.42	36.63	54.00	-13.95	100	171	Average	Vertical	
2	2478.00	87.93	50.77	37.16	54.00	33.93	100	171	Average	Vertical	
3	2492.12	41.00	3.74	37.26	54.00	-13.00	100	171	Average	Vertical	

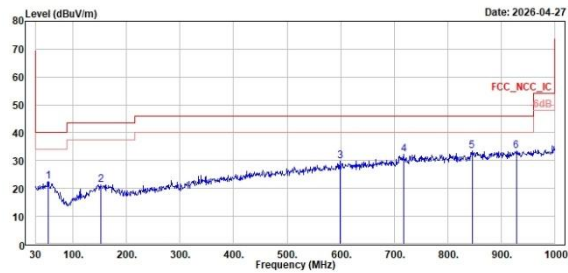
Spurious Emissions, Tx Mode, 30MHz ~ 1GHz

BLE CHANNEL SOUNDING_1M

Low Channel (Horizontal)



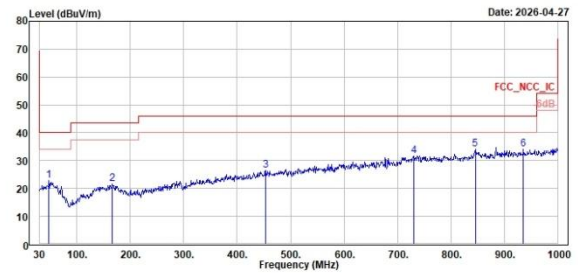
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	53.28	22.41	28.54	-6.13	40.00	-17.59	100	299	Peak	Horizontal		
2	151.25	21.42	27.96	-6.54	43.50	-22.08	100	57	Peak	Horizontal		
3	598.42	29.85	29.54	0.31	46.00	-16.15	100	88	Peak	Horizontal		
4	717.73	32.10	30.08	2.02	46.00	-13.90	100	99	Peak	Horizontal		
5	845.77	33.34	29.44	3.90	46.00	-12.66	100	121	Peak	Horizontal		
6	928.22	33.52	28.49	5.03	46.00	-12.48	100	2	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	47.46	22.70	29.02	-6.32	40.00	-17.30	100	172	Peak	Vertical		
2	166.77	21.56	27.97	-6.41	43.50	-21.94	100	342	Peak	Vertical		
3	452.92	26.38	28.82	-2.44	46.00	-19.62	100	0	Peak	Vertical		
4	730.34	31.68	29.67	2.01	46.00	-14.32	100	103	Peak	Vertical		
5	845.77	33.97	30.07	3.90	46.00	-12.03	100	155	Peak	Vertical		
6	935.98	34.08	28.98	5.10	46.00	-11.92	100	58	Peak	Vertical		

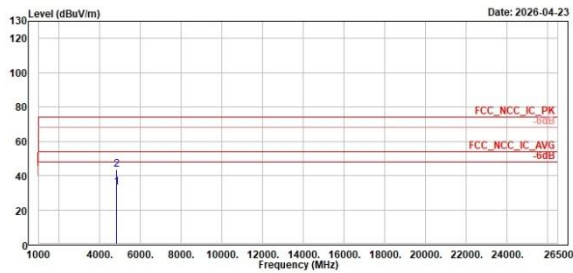
Spurious Emissions, Tx Mode, 1GHz ~ 26.5GHz

BLE CHANNEL SOUNDING_1M

Low Channel (Horizontal)



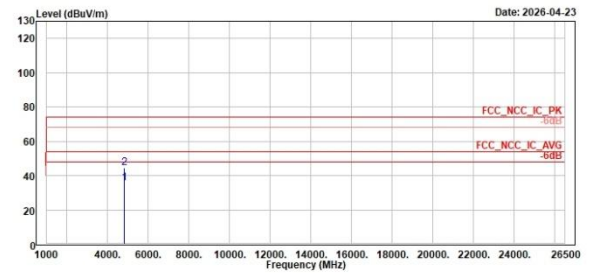
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4898.00	32.94	43.79	-10.85	54.00	-21.06	100	329	Average	Horizontal		
2	4898.00	43.58	54.43	-10.85	74.00	-30.42	100	329	Peak	Horizontal		



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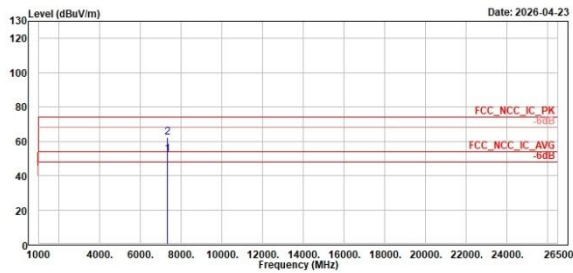
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	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	dB	cm	deg			
1	4898.00	35.52	46.37	-10.85	54.00	-18.48	100	342	Average	Vertical		
2	4898.00	44.61	55.46	-10.85	74.00	-29.39	100	342	Peak	Vertical		

BLE CHANNEL SOUNDING_1M

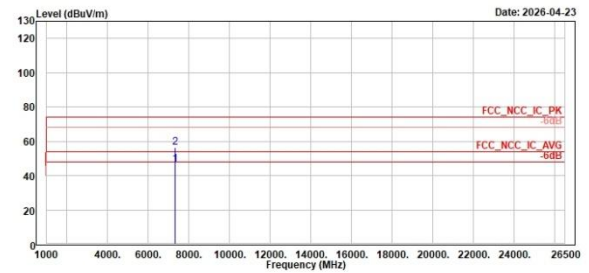
Middle Channel (Horizontal)



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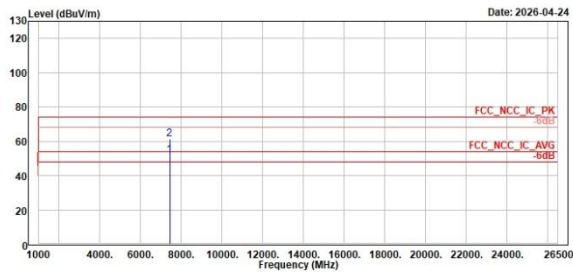


BLE CHANNEL SOUNDING_1M

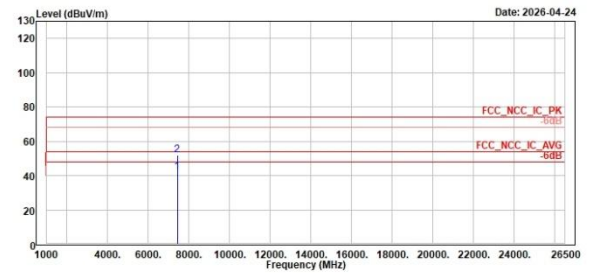
High Channel (Horizontal)



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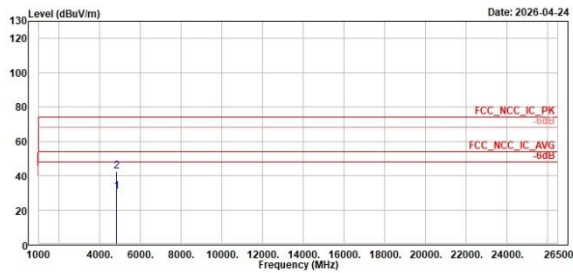


BLE CHANNEL SOUNDING_2M

Low Channel (Horizontal)



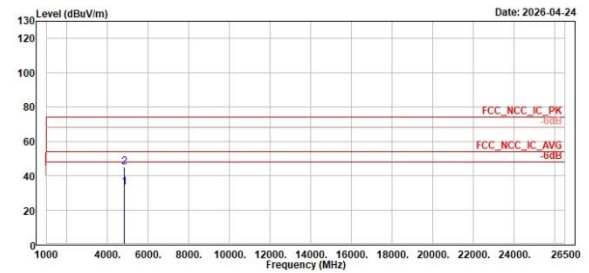
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Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Freq	Level	Factor	Line	Limit					
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4888.00	30.81	41.66	-10.85	54.00	-23.19	232	330 Average	Horizontal
2	4888.00	42.43	53.28	-10.85	74.00	-31.57	232	330 Peak	Horizontal



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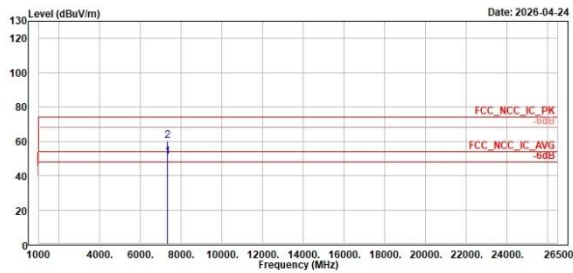
Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
Freq	Level	Factor	Line	Limit					
MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg		
1	4888.00	33.33	44.18	-10.85	54.00	-20.67	100	360 Average	Vertical
2	4888.00	44.99	55.84	-10.85	74.00	-29.01	100	360 Peak	Vertical

BLE CHANNEL SOUNDING_2M

Middle Channel (Horizontal)



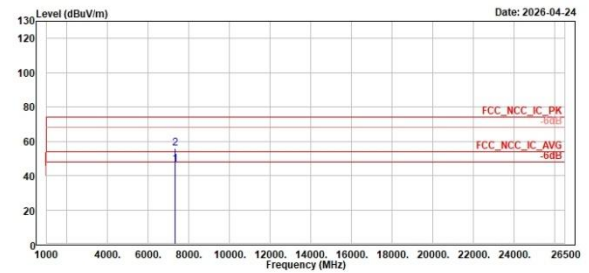
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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	51.13	59.84	-8.71	54.00	-2.87	118	293	Average	Horizontal		
2	7320.00	60.39	69.10	-8.71	74.00	-13.61	118	293	Peak	Horizontal		



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	Freq	Level	Read	Level	Factor	Limit	Over	APos	TPos	Remark	Pol/Phase	Note
	MHz	dBuV/m	dBuV	dB/m	dBuV/m	dB	cm	deg				
1	7320.00	46.51	55.22	-8.71	54.00	-7.49	270	283	Average	Vertical		
2	7320.00	55.63	64.34	-8.71	74.00	-18.37	270	283	Peak	Vertical		

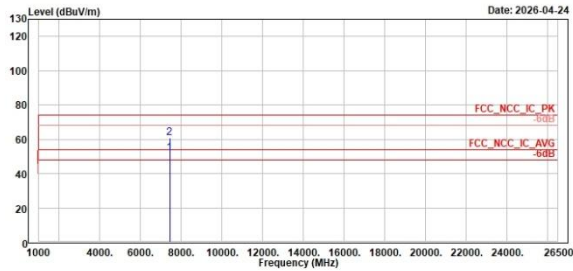
BLE CHANNEL SOUNDING_2M

High Channel (Horizontal)

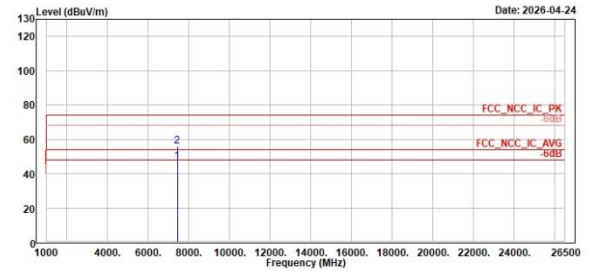
High Channel (Vertical)



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Mains Conducted Emission, TX 150kHz ~ 30MHz

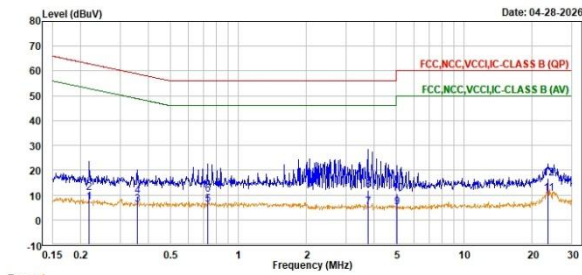
Worst Band

(Line)

(Neutral)



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