

Prüfbericht-Nr.: Test report no.:	CN26YRD3 001	Auftrags-Nr.: Order no.:	27232029	Seite 1 von 24 Page 1 of 24	
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2026-04-28		
Auftraggeber: Client:	LEEDARSON LIGHTING CO., LTD. Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China				
Prüfgegenstand: Test item:	Smart Ceiling LED Light				
Bezeichnung / Typ-Nr.: Identification / Type no.:	CE02N				
Auftrags-Inhalt: Order content:	Test Report				
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 4 July 2025 RSS-Gen Issue 5 February 2021				
Wareneingangsdatum: Date of sample receipt:	2026-05-08	Please refer to Photo Document			
Prüfmuster-Nr.: Test sample no.:	A004264923-001~002 A004264923-008				
Prüfzeitraum: Testing period:	2026-05-22 - 2026-06-01				
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: Test result*:	Pass				
geprüft von: tested by:			genehmigt von: authorized by:		
Datum: Date:	2026-06-05	Signed by: Jonathan Li		Ausstellungsdatum: Issue date:	2026-06-05
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2AB2Q-CE02N IC: 10256A-CE02N HVIN: CE02N				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged				
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet	
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	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 above mentioned 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	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. Detaillierte Informationen bezüglich Prüfbedingungen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <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>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	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. <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>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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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 Results of Bluetooth LE

Appendix B: Test Results of 2.4GHz Wi-Fi

Appendix C: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China

FCC Accreditation Designation No.: CN1260

ISED Wireless Device Testing Laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend 2)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	2025-09-23	2026-09-22
Signal Analyzer	R&S	FSV 40	101441	2025-09-23	2026-09-22
Vector Signal Generator	R&S	SMBV100A	263301	2025-10-30	2026-10-29
Signal Generator	R&S	SMB100A	115186	2025-09-23	2026-09-22
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2025-09-23	2026-09-22
Control PC	Lenovo	1HH43Q4	F807B09DD5F1	N/A	N/A
Test Software	Tonscend	JS1120-3	N/A	N/A	N/A
Power Meter	R&S	NRP2	107105	2025-10-30	2026-10-29
Power Sensor	R&S	NRP-Z81	105677	2025-09-23	2026-09-22
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2025-09-22	2026-09-21
Signal Analyzer	R&S	FSV 40	101439	2025-09-22	2026-09-21
System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2025-09-22	2026-09-21
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2025-09-22	2026-09-21
Amplifier	R&S	SCU-18F	180070	2025-09-22	2026-09-21
Amplifier	R&S	SCU40A	100475	2025-09-22	2026-09-21
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2026-09-27
Double-Ridged Antenna (1-18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2026-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2026-09-27
Active Loop	Schwarzbeck	FMZB 1513	302	2024-09-28	2026-09-27

Antenna					
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2027-02-03
Artificial Mains Network	R&S	ENV216	102333	2026-07-18
Artificial Mains Network	R&S	ENV216	101445	2027-02-03
EMC32 Test Software	R&S	EMC32(Ver.10.60.20)	N/A	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.24 dB / ± 3.24 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is Smart Ceiling LED Light which supports Bluetooth low energy and 2.4GHz Wi-Fi wireless technologies.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Smart Ceiling LED Light
Type Designation:	CE02N
FCC ID:	2AB2Q-CE02N
IC:	10256A-CE02N
HVIN:	CE02N
Operating Voltage:	AC 120V, 60Hz, 0.2A
Rated Power:	22W
Technical Specification of Bluetooth LE	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Channel Separation:	2MHz
Data Rate:	1Mbps, 2Mbps
Antenna Type:	PCB Layout Antenna
Antenna Gain:	0.52 dBi (Provided by the Client)
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462 MHz for 802.11b/g/n(HT20)/ax(HE20) 2422 - 2452 MHz for 802.11n(HT40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n MCS0 ~ MCS12 for 802.11ax* (*Only Full RU mode supported for 802.11ax.)
Channel Number:	11 channels for 802.11b/g/n(HT20)/ax(HE20) 7 channels for 802.11n(HT40)
Channel Separation:	5 MHz
Antenna Type:	PCB Layout Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	0.52 dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

Table 4: RF Channel and Frequency of Bluetooth LE

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

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Bluetooth LE

Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi

RF Channel	802.11 b/g/n(HT20)/ax(HE20)	802.11 n(HT40)
	Frequency (MHz)	Frequency (MHz)
01	2412	/
02	2417	/
03	2422	2422
04	2427	2427
05	2432	2432
06	2437	2437
07	2442	2442
08	2447	2447
09	2452	2452
10	2457	/
11	2462	/

Test frequencies are lowest channel: 2412 MHz, middle channel: 2437 MHz and highest channel: 2462 MHz for 802.11b/g/n(HT20)/ax(HE20)

Test frequencies are lowest channel: 2422 MHz, middle channel: 2437 MHz and highest channel: 2452 MHz for 802.11n(HT40)

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, 2.4GHz Wi-Fi transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Normal working
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - User Manual |
| - Operation Description | - FCC/IC Label and Location Info |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024.

According to clause 3.1, all tests were performed on model CE02N in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

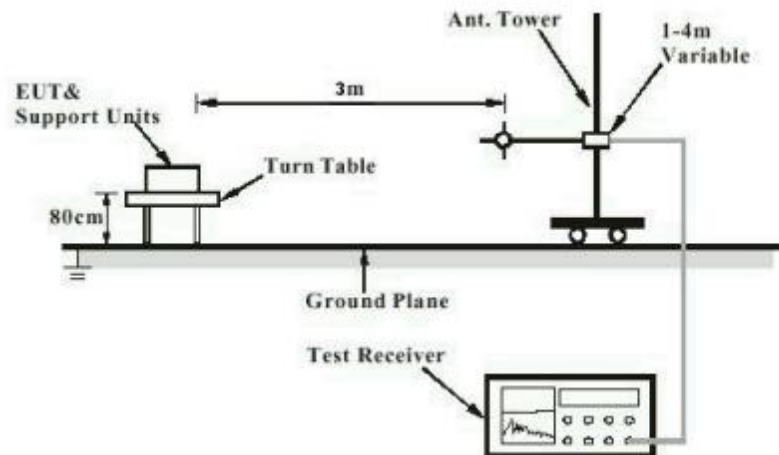


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

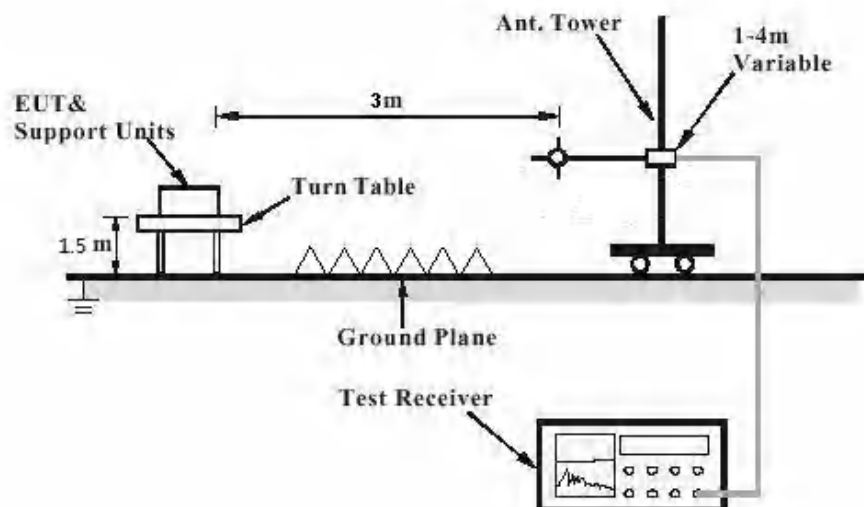


Diagram of Measurement Configuration for Mains Conduction Measurement

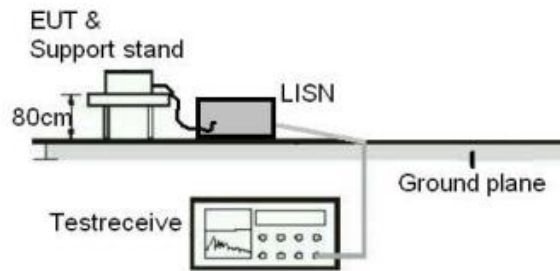
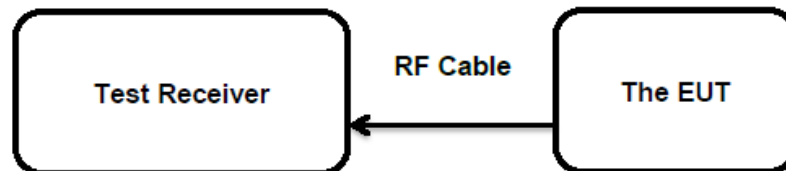


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has PCB Layout Antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(b)(3) RSS-247 Clause 6.3.2
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 1.0 W
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-29 to 2026-06-01
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.2 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(W)	
Bluetooth LE (1 Mbps)	2402	7.50	0.0056	< 1.0
	2440	8.45	0.0070	
	2480	9.02	0.0080	
Bluetooth LE (2 Mbps)	2402	4.40	0.0028	
	2440	5.78	0.0038	
	2480	6.23	0.0042	
Max. Measured Value		9.02	0.0080	

Max. e.i.r.p.=9.02dBm+0.52dBi=9.54dBm, which is less than 36dBm=4W.

Table 8: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	17.01	0.0502	< 1.0
		2437	16.87	0.0486	
		2462	17.64	0.0581	
802.11g	6 Mbps	2412	16.47	0.0444	
		2437	16.38	0.0435	
		2462	17.12	0.0515	
802.11n (HT20)	MCS0	2412	16.46	0.0443	
		2437	16.33	0.0430	
		2462	16.97	0.0498	
802.11n (HT40)	MCS0	2422	14.29	0.0269	
		2437	14.32	0.0270	
		2452	14.57	0.0286	
802.11ax (HE20)	MCS0	2412	23.90	0.2455	
		2437	24.05	0.2541	
		2462	23.81	0.2404	
Maximum Measured Value			24.05	0.2541	

Max. e.i.r.p.=24.05dBm+0.52dBi=24.57dBm, which is less than 36dBm=4W.

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 0.52dBi for Bluetooth & 2.4GHz Wi-Fi
e.i.r.p.=P_(Peak power)+ G, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(e) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-29 to 2026-06-01
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.2 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.4 6dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(2) RSS-247 Clause 6.3.1
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: > 500 kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-29 to 2026-06-01
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.2 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Within assigned band 2400-2483.5MHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-29 to 2026-06-01
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.2 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 6.6
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-29 to 2026-06-01
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.2 °C
Relative humidity	: 52 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix A, B.

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5.1.7 Radiated Spurious Emission

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 2.4
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2026-05-22 to 2026-05-25
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test results
Relative humidity	: Refer to test results
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A, B.

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Test Report No.:Seite 23 von 24
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5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	: 0.15 – 30MHz
Classification	: Class B
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2026-05-22 to 2026-05-25
Input voltage	: AC 120V, 60Hz
Operation mode	: C
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix C.

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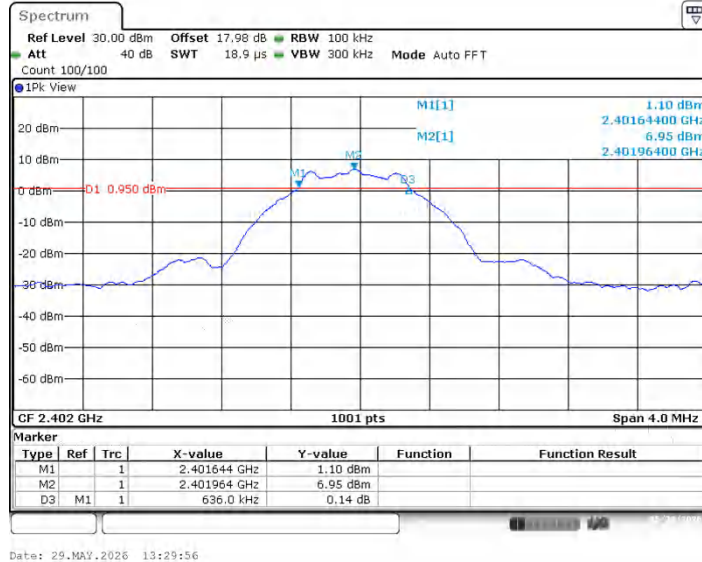
Appendix A.1: Test Results of 6dB Bandwidth

Test Result

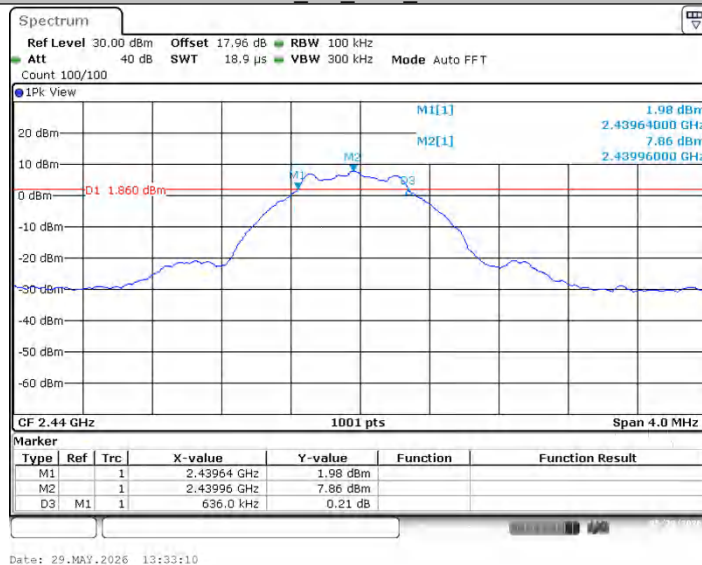
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.64	2401.64	2402.28	0.5	PASS
		2440	0.64	2439.64	2440.28	0.5	PASS
		2480	0.64	2479.64	2480.28	0.5	PASS
BLE_2M	Ant1	2402	1.11	2401.40	2402.51	0.5	PASS
		2440	1.11	2439.40	2440.51	0.5	PASS
		2480	1.11	2479.40	2480.50	0.5	PASS

Test Graphs

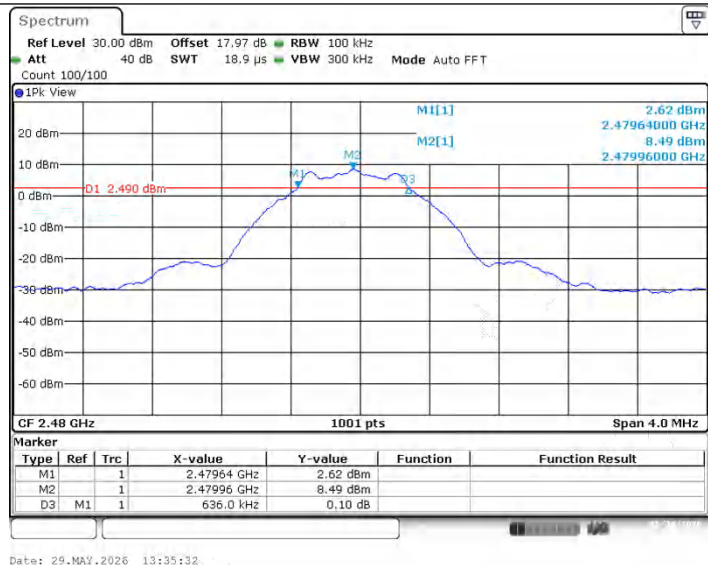
BLE_1M_Ant1_2402



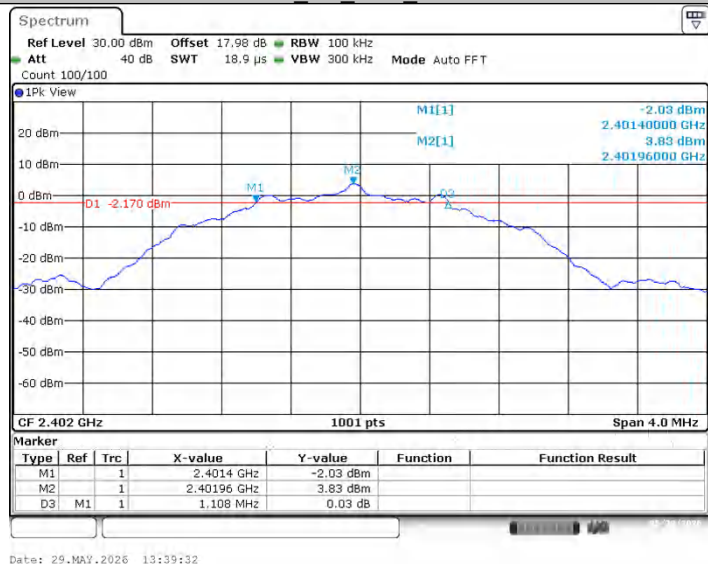
BLE_1M_Ant1_2440



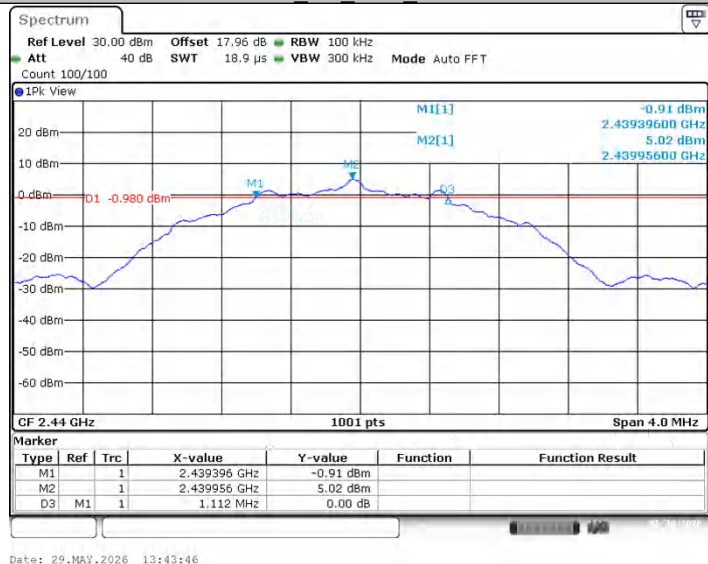
BLE_1M_Ant1_2480



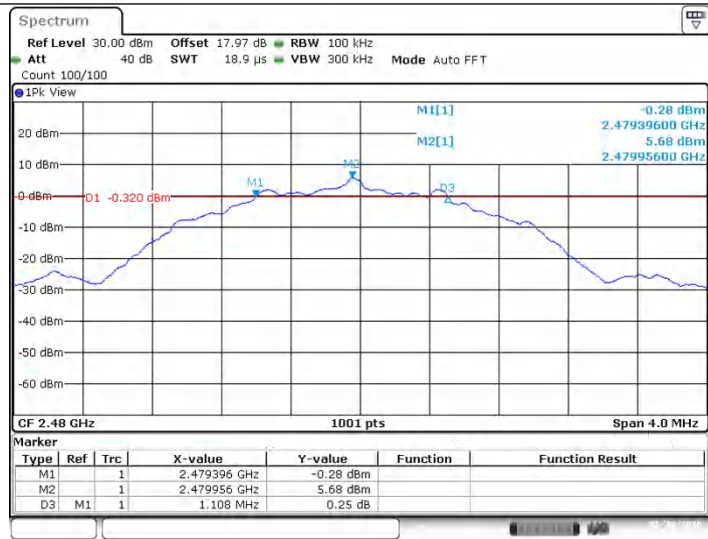
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Date: 29.MAY.2026 13:46:08

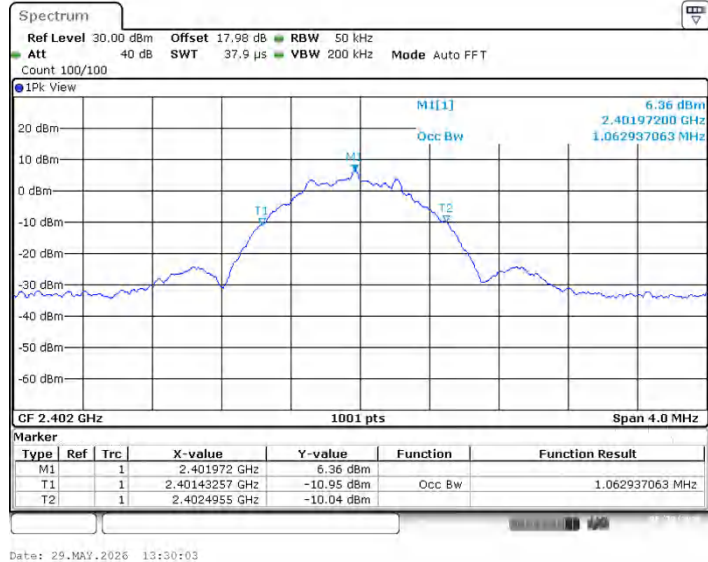
Appendix A.2: Test Results of 99% Bandwidth

Test Result

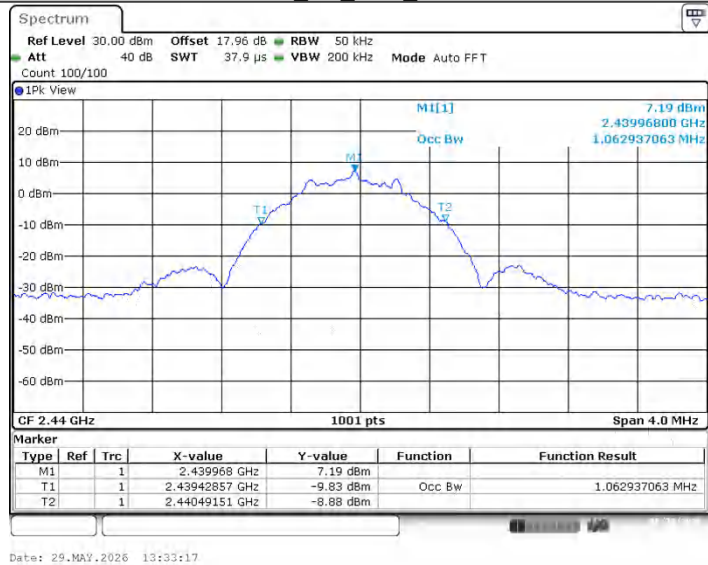
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0629	2401.4326	2402.4955	---	PASS
		2440	1.0629	2439.4286	2440.4915	---	PASS
		2480	1.0629	2479.4286	2480.4915	---	PASS
BLE_2M	Ant1	2402	2.0939	2400.9131	2403.0070	---	PASS
		2440	2.0899	2438.9131	2441.0030	---	PASS
		2480	2.0859	2478.9171	2481.0030	---	PASS

Test Graphs

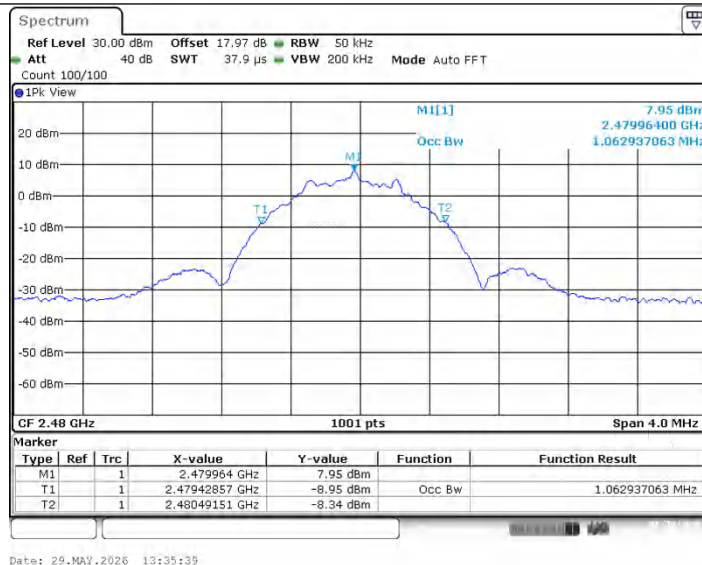
BLE_1M_Ant1_2402



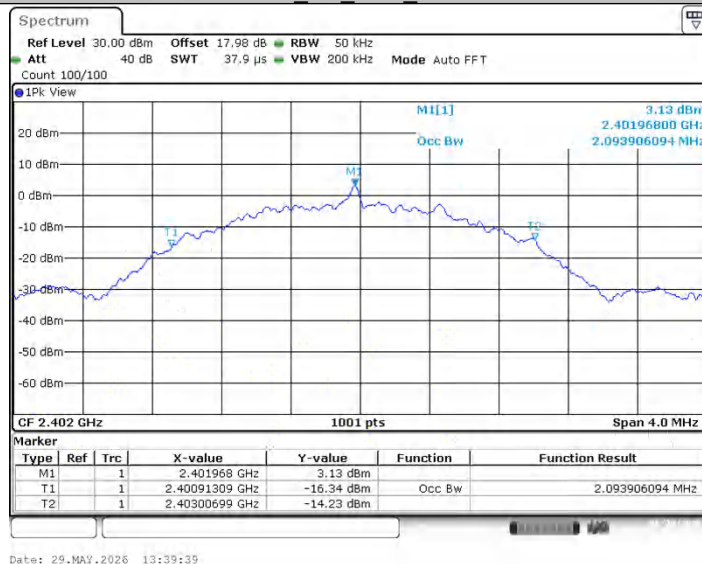
BLE_1M_Ant1_2440



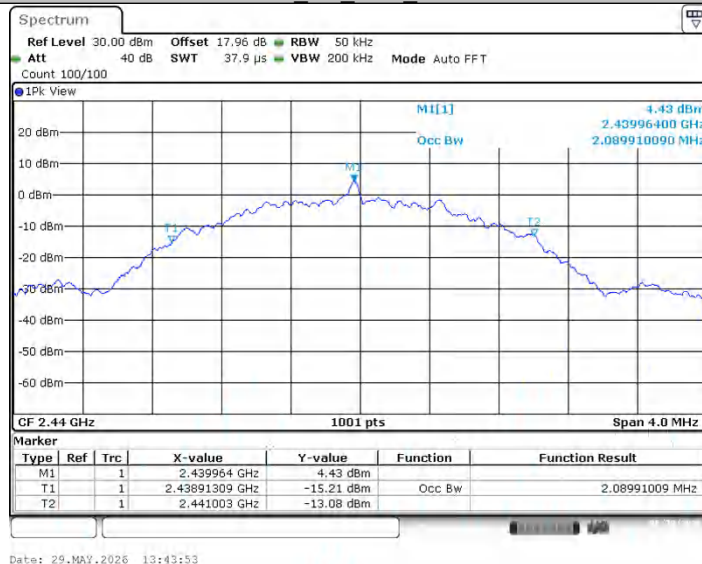
BLE_1M_Ant1_2480



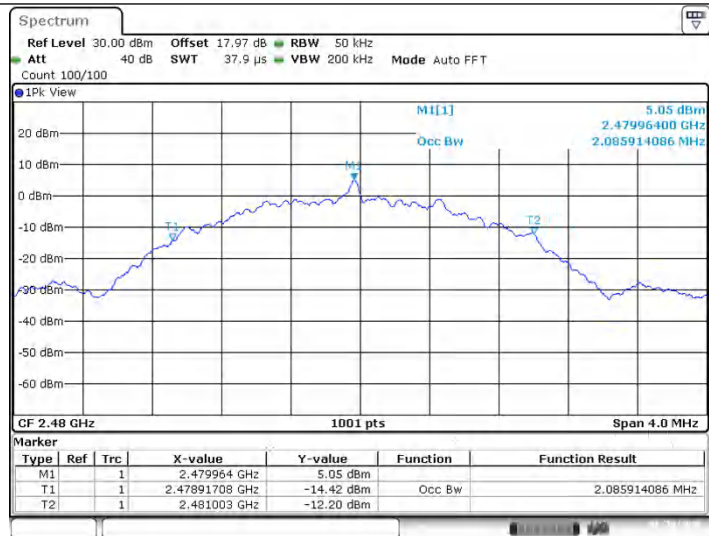
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Date: 29.MAY.2026 13:46:15

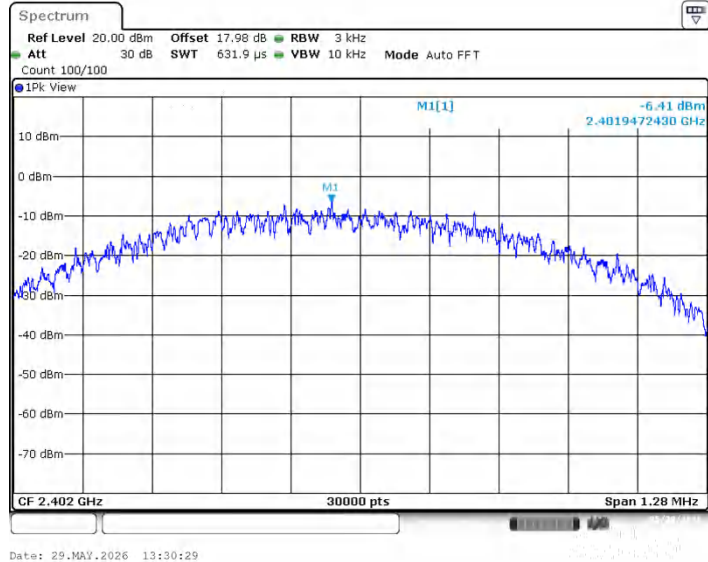
Appendix A.3: Test Results of Conducted Power Spectral Density

Test Result

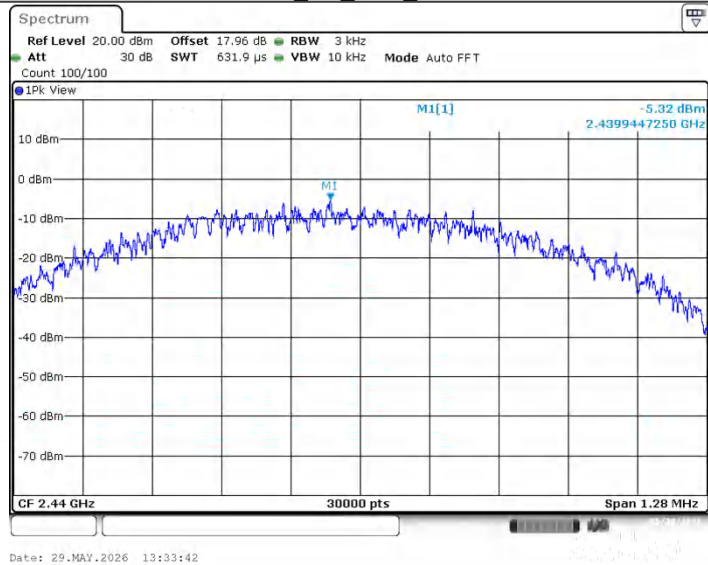
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-6.41	≤8.00	PASS
		2440	-5.32	≤8.00	PASS
		2480	-4.83	≤8.00	PASS
BLE_2M	Ant1	2402	-12.01	≤8.00	PASS
		2440	-10.85	≤8.00	PASS
		2480	-10.32	≤8.00	PASS

Test Graphs

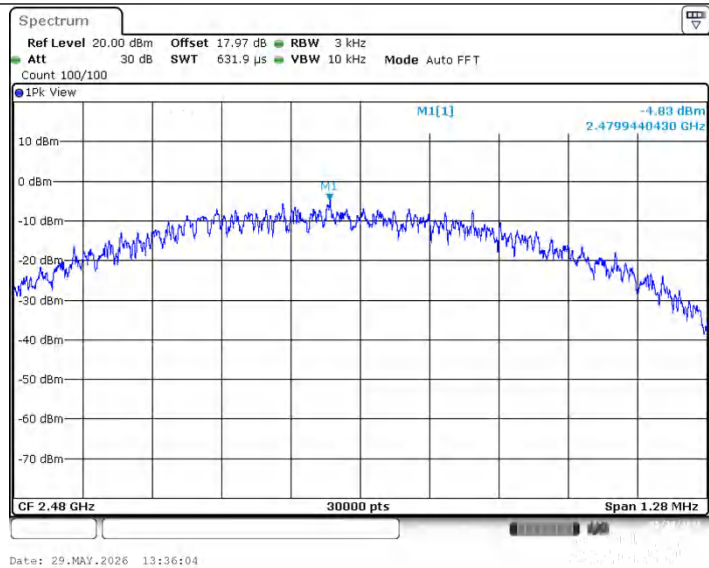
BLE_1M_Ant1_2402



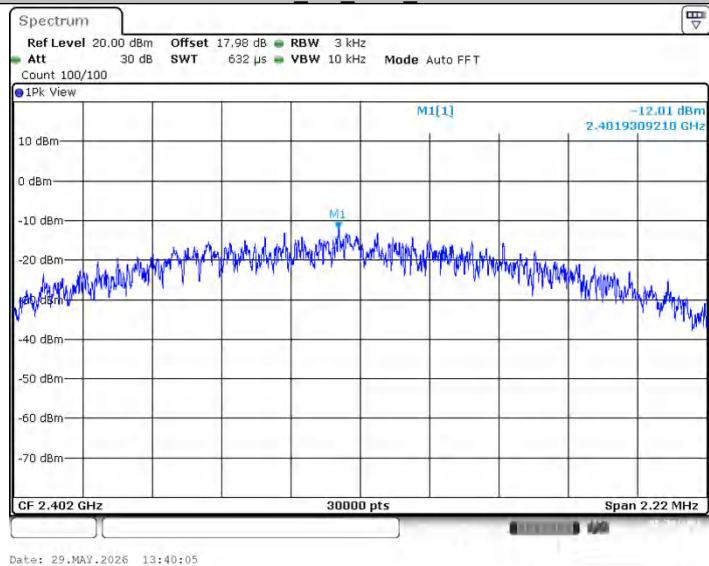
BLE_1M_Ant1_2440



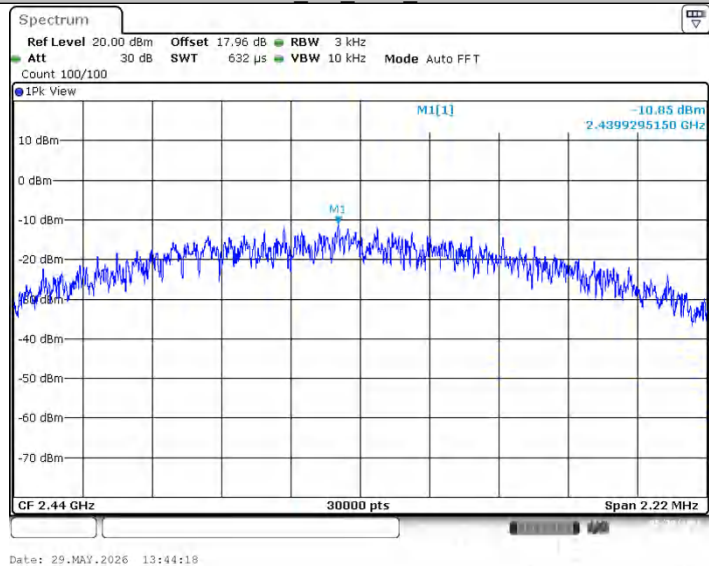
BLE_1M_Ant1_2480



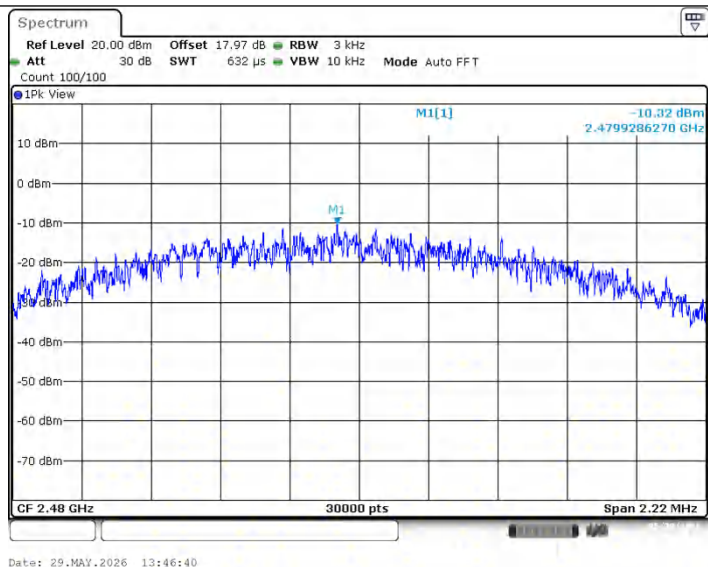
BLE 2M Ant1 2402



BLE 2M Ant1 2440



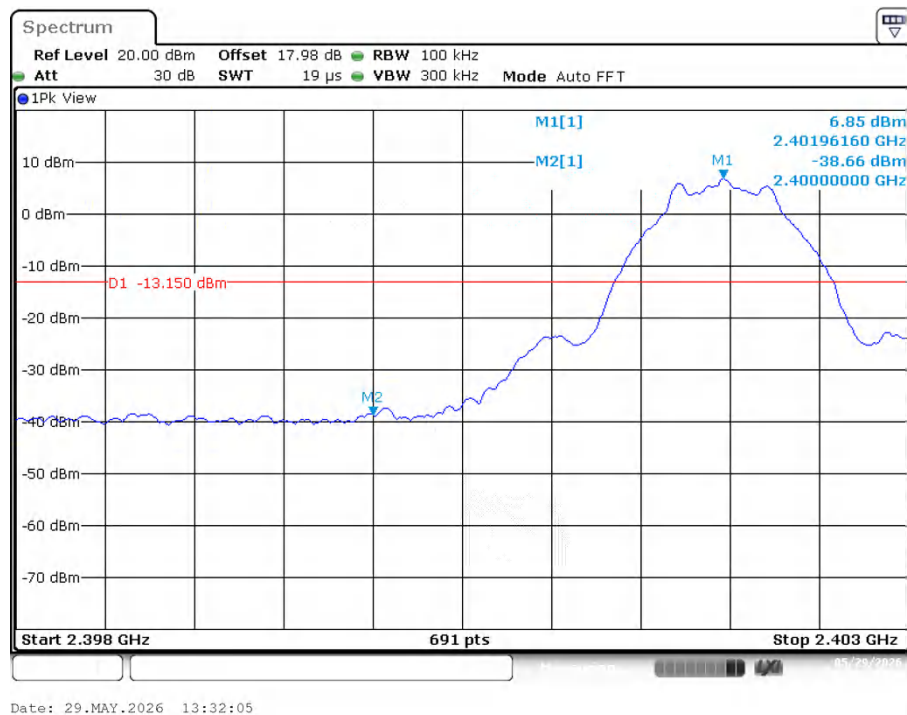
BLE 2M Ant1 2480



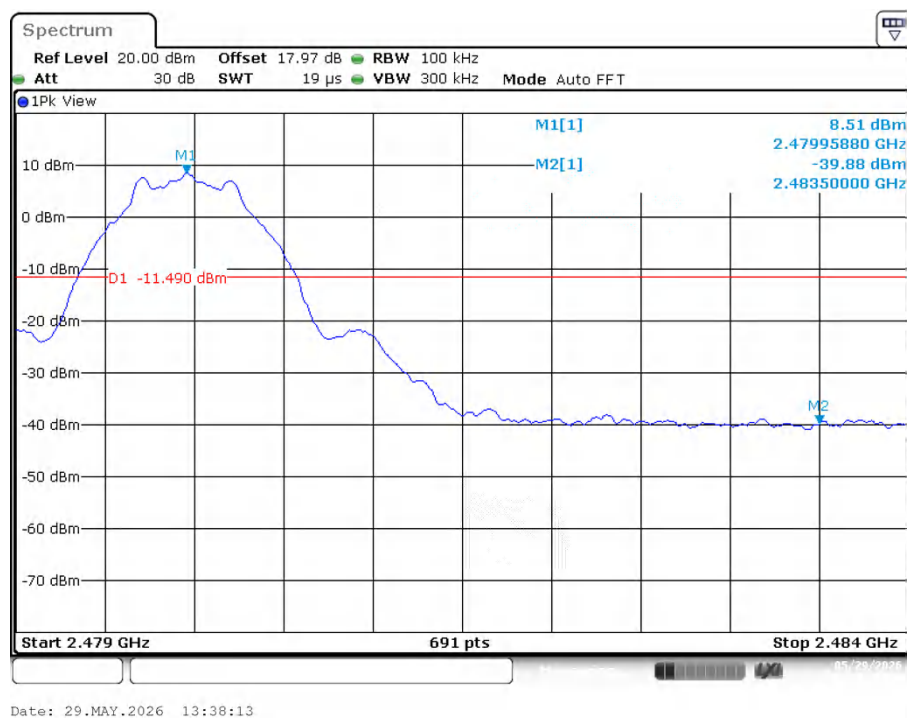
Appendix A.4: Test Results of Band Edge Measurements

Bluetooth LE, 1Mbps

Low Channel

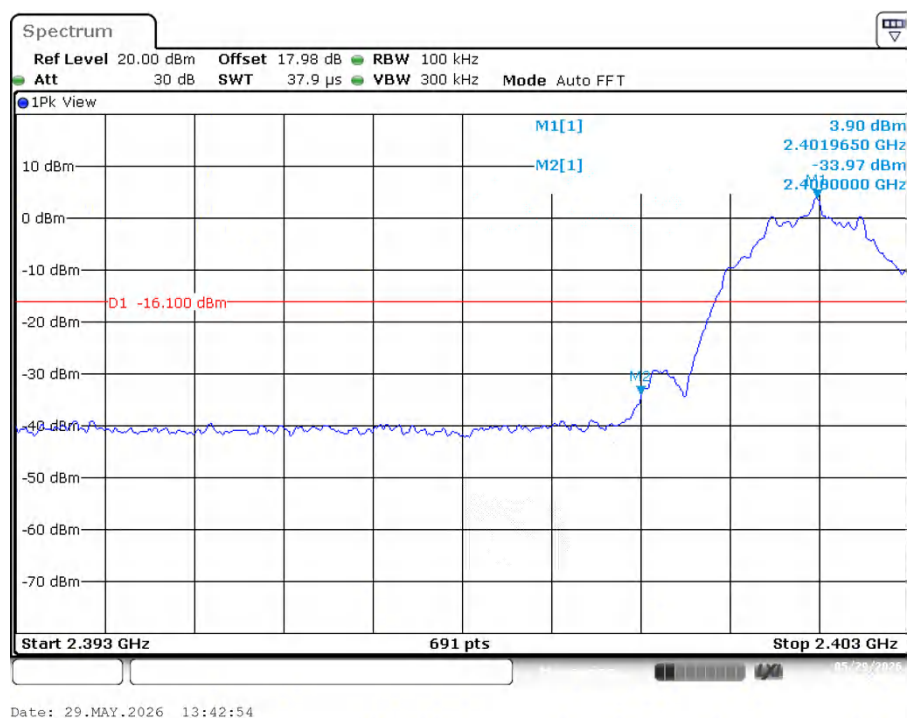


High Channel

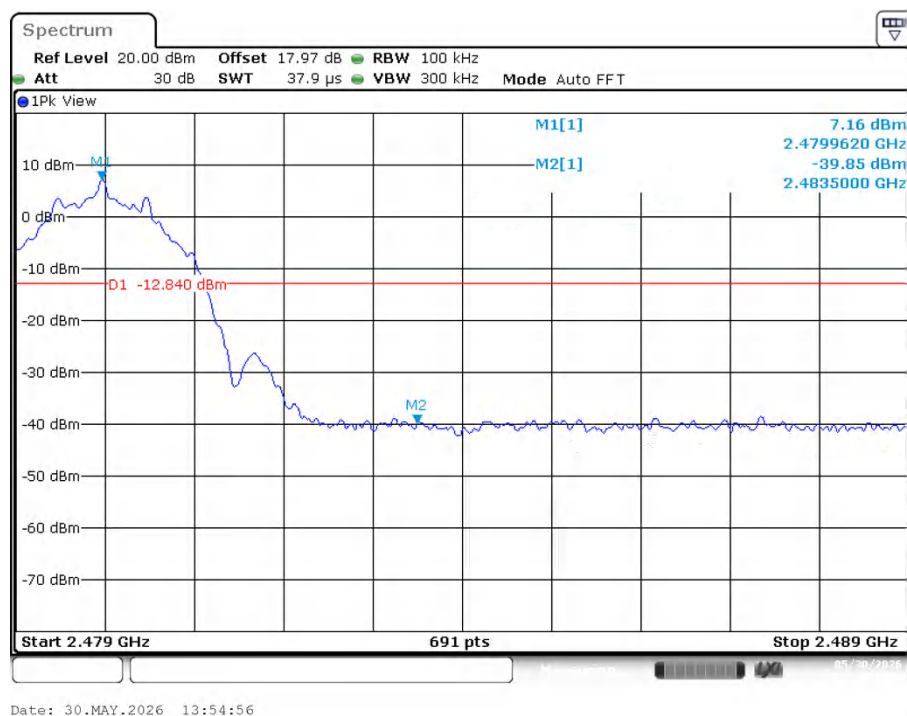


Bluetooth LE, 2Mbps

Low Channel



High Channel



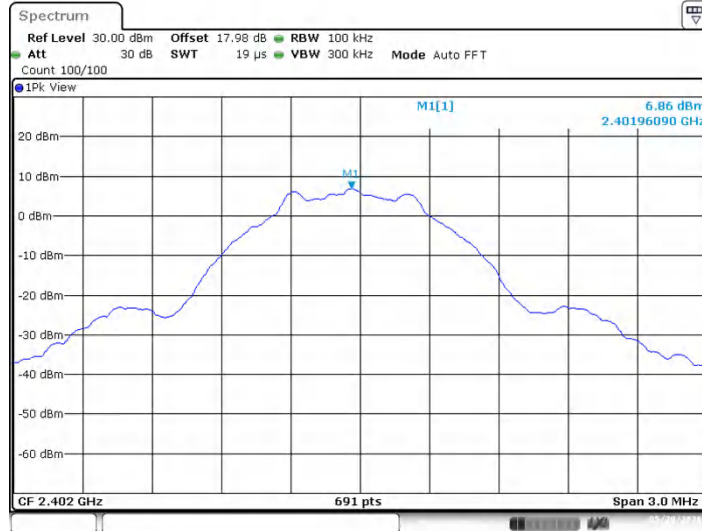
Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	6.86	6.86	---	PASS
			30~1000	6.86	-48.14	≤-13.14	PASS
			1000~26500	6.86	-41.67	≤-13.14	PASS
		2440	Reference	7.98	7.98	---	PASS
			30~1000	7.98	-48.71	≤-12.02	PASS
			1000~26500	7.98	-41.5	≤-12.02	PASS
		2480	Reference	8.49	8.49	---	PASS
			30~1000	8.49	-48.65	≤-11.51	PASS
			1000~26500	8.49	-42.67	≤-11.51	PASS
BLE_2M	Ant1	2402	Reference	4.03	4.03	---	PASS
			30~1000	4.03	-48.52	≤-15.97	PASS
			1000~26500	4.03	-42.81	≤-15.97	PASS
		2440	Reference	5.06	5.06	---	PASS
			30~1000	5.06	-48.27	≤-14.94	PASS
			1000~26500	5.06	-42.66	≤-14.94	PASS
		2480	Reference	5.63	5.63	---	PASS
			30~1000	5.63	-47.99	≤-14.37	PASS
			1000~26500	5.63	-42.97	≤-14.37	PASS

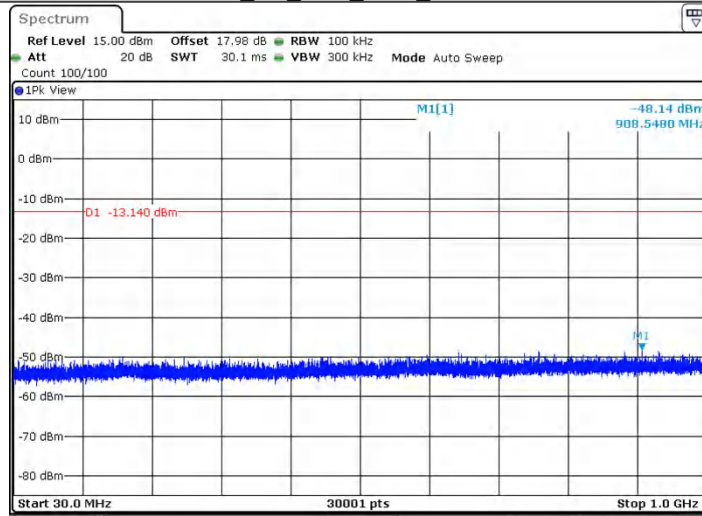
Test Graphs

BLE_1M_Ant1_2402_0~Reference



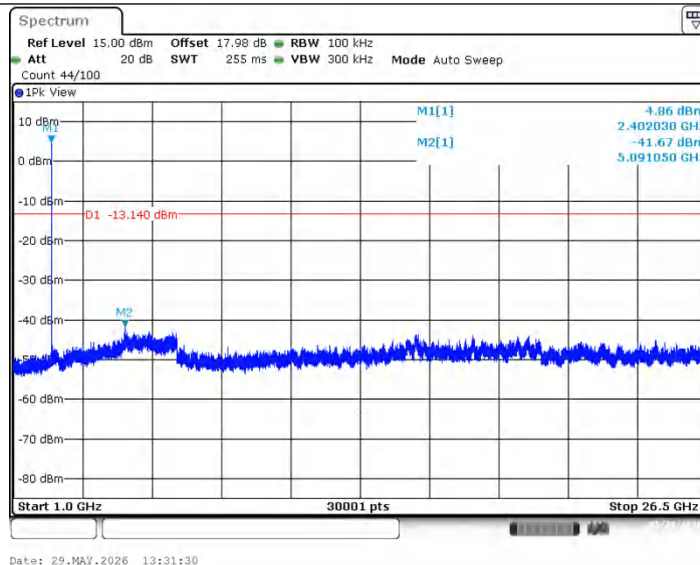
Date: 29.MAY.2026 13:30:37

BLE_1M_Ant1_2402_30~1000

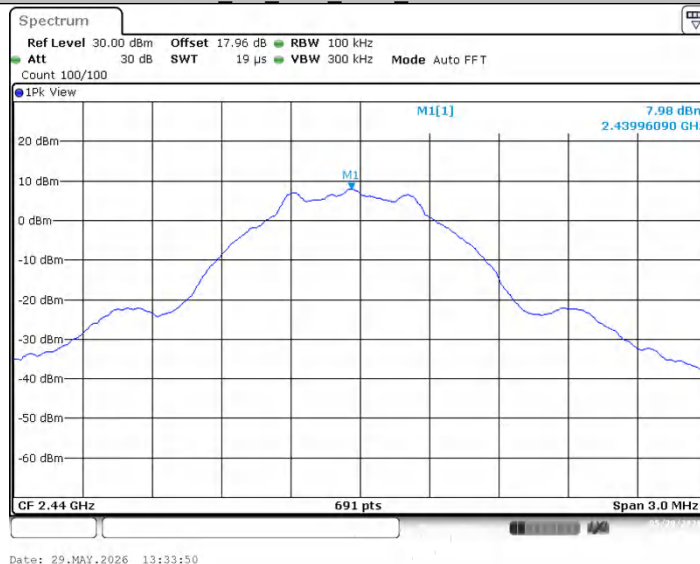


Date: 29.MAY.2026 13:30:51

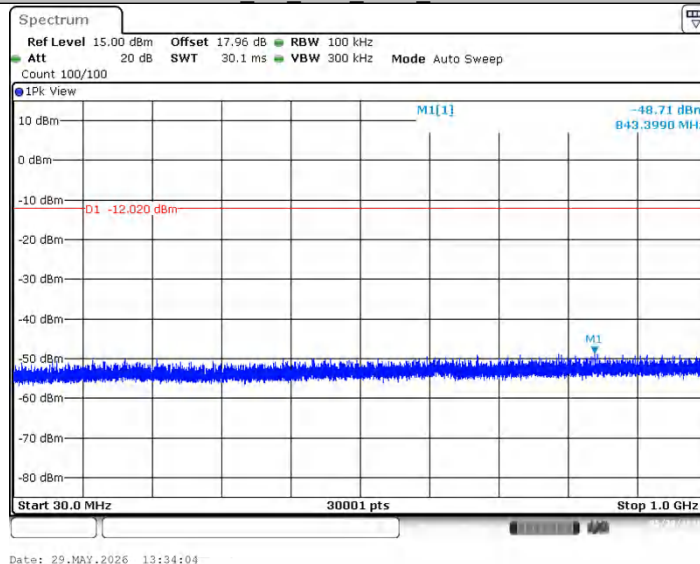
BLE_1M_Ant1_2402_1000~26500



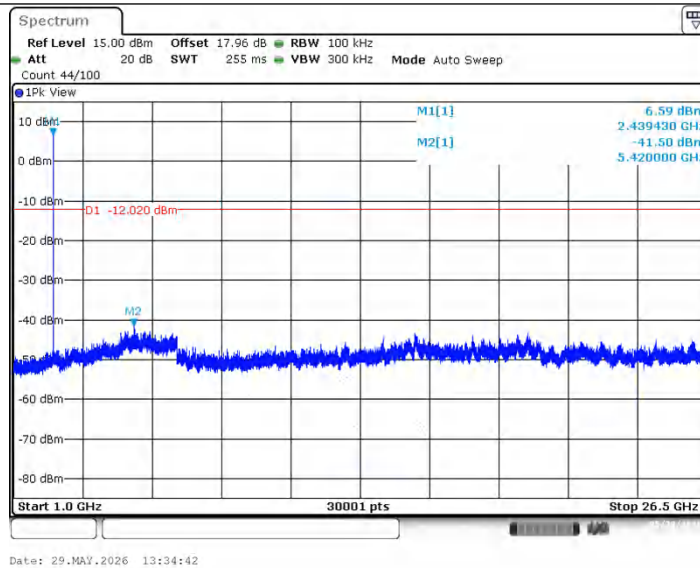
BLE 1M_Ant1_2440_0~Reference



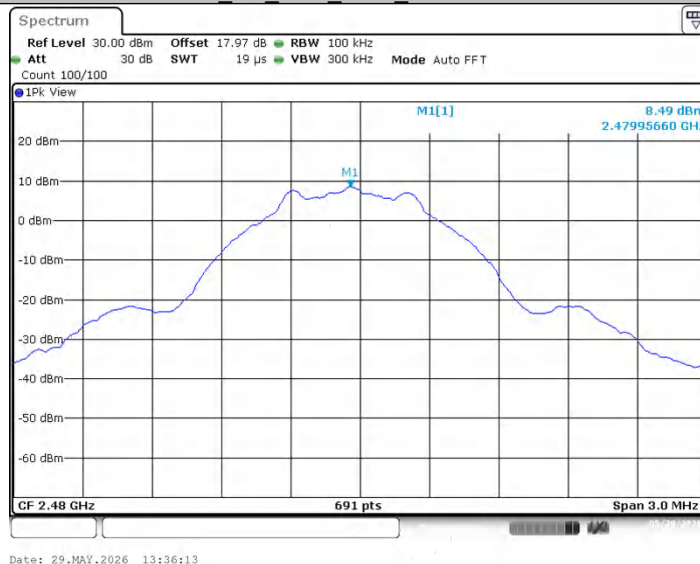
BLE 1M_Ant1_2440_30~1000



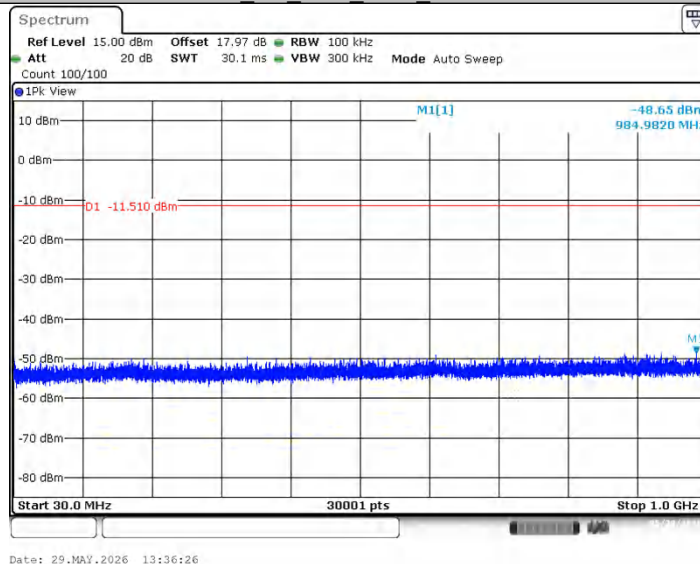
BLE 1M_Ant1_2440_1000~26500



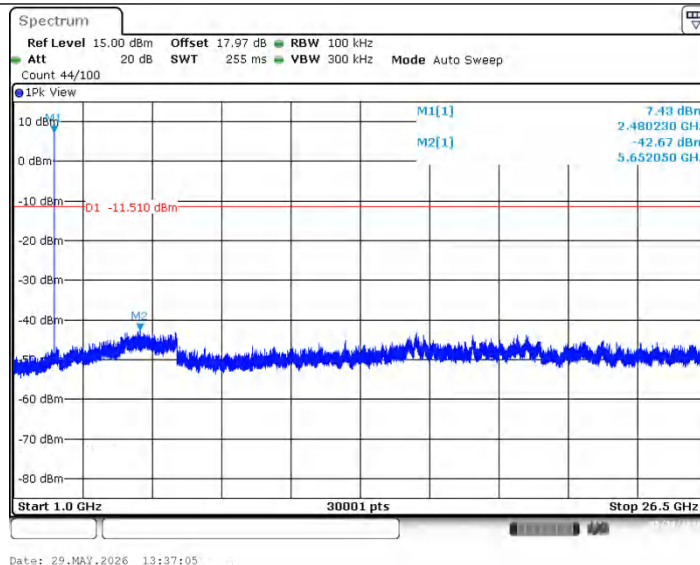
BLE 1M_Ant1_2480_0~Reference



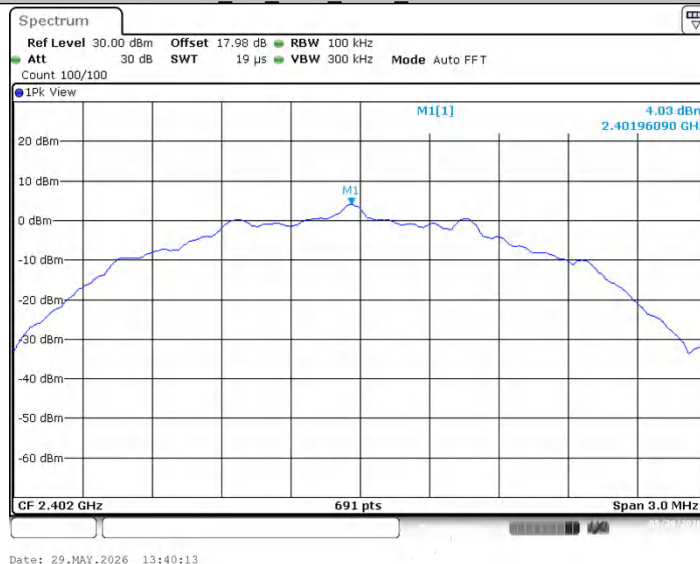
BLE 1M_Ant1_2480_30~1000



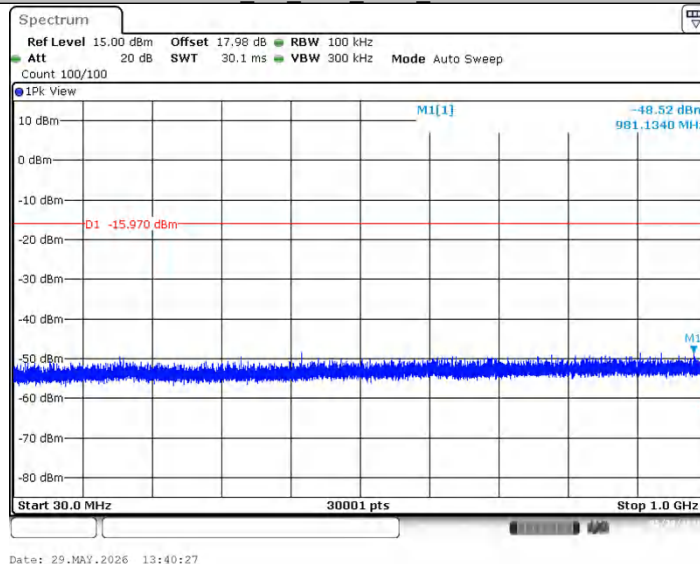
BLE 1M_Ant1_2480_1000~26500



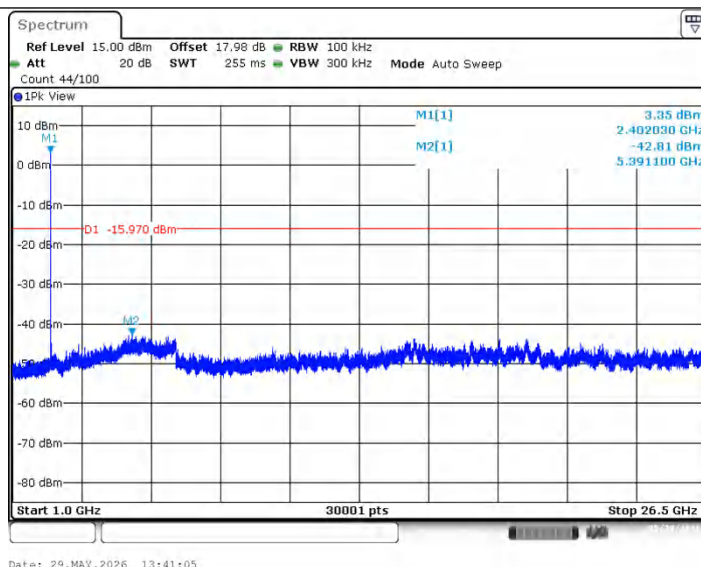
BLE 2M_Ant1_2402_0~Reference



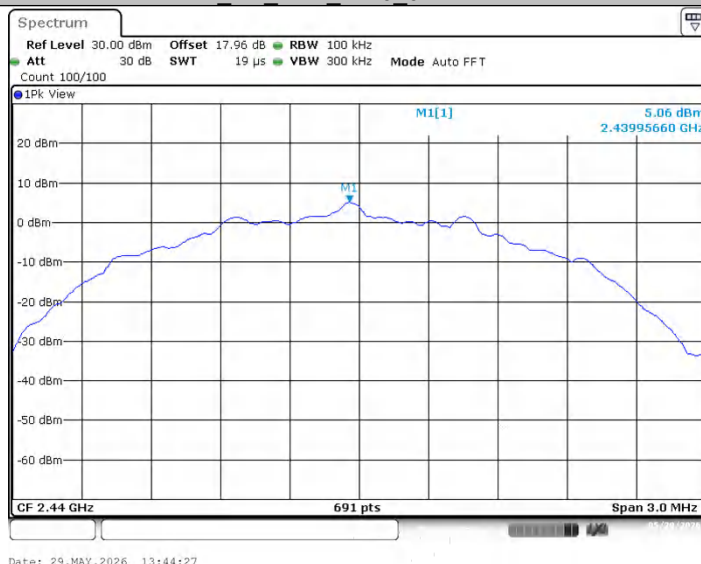
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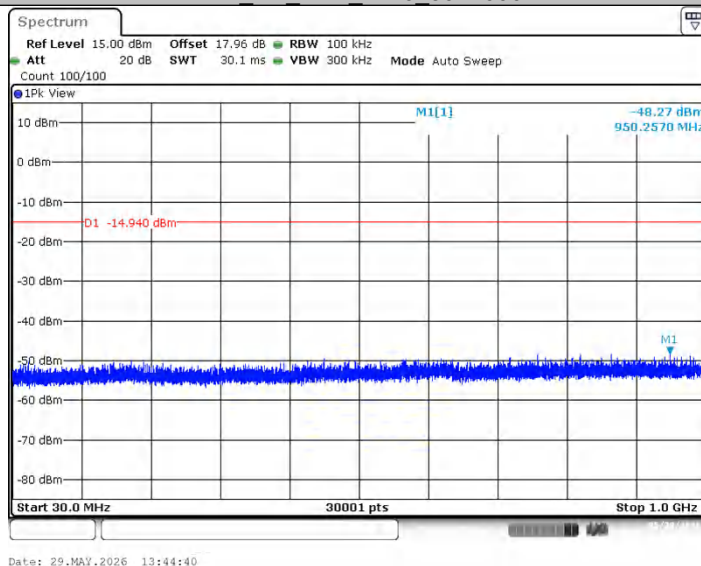
BLE 2M_Ant1_2402_1000~26500



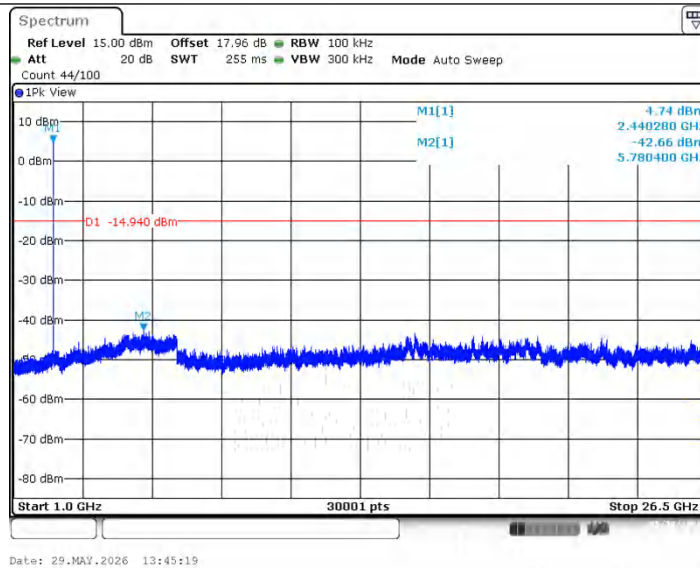
BLE 2M_Ant1_2440_0~Reference



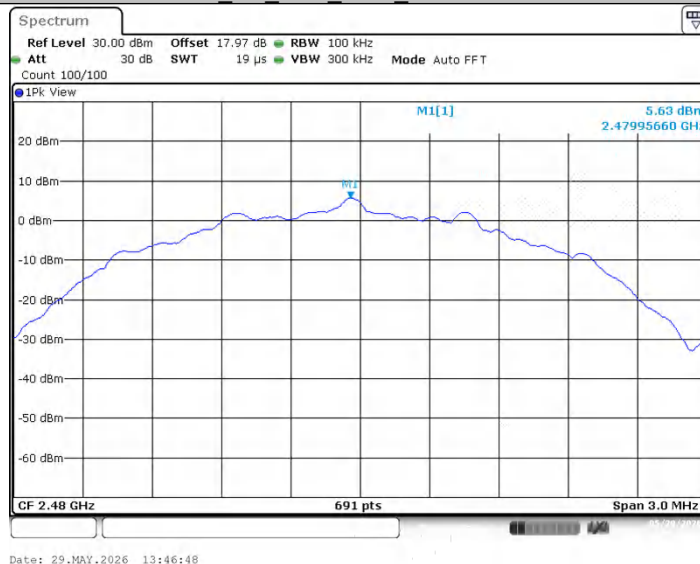
BLE 2M_Ant1_2440_30~1000



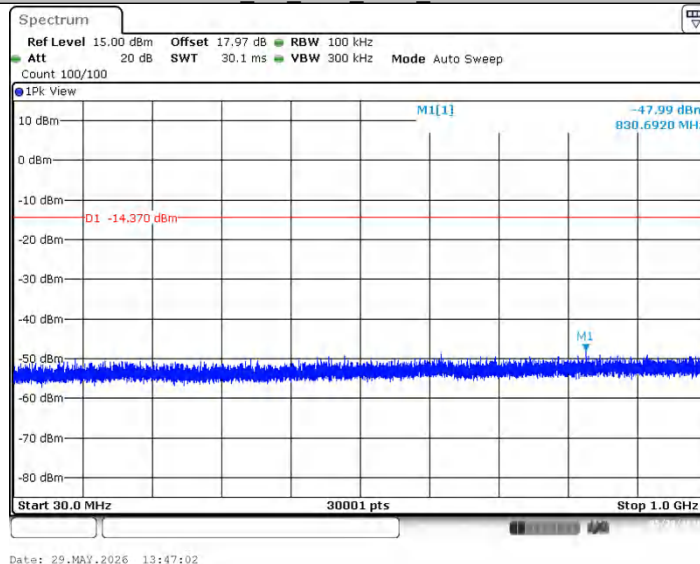
BLE 2M_Ant1_2440_1000~26500



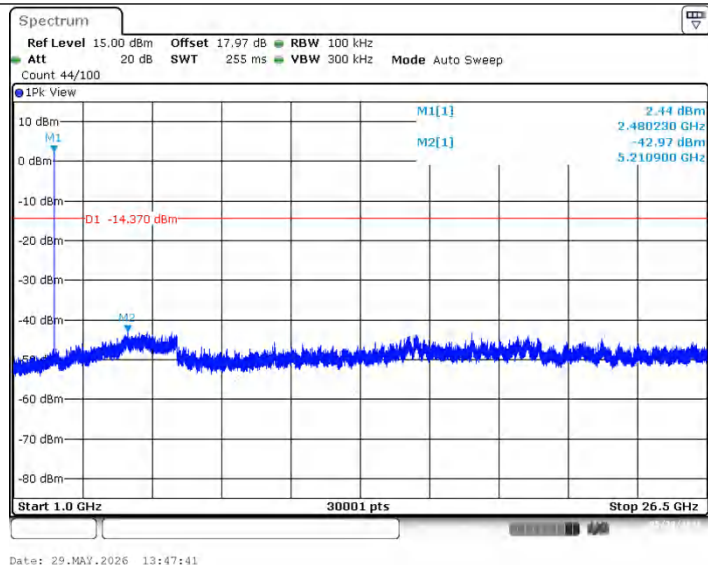
BLE 2M_Ant1_2480_0~Reference



BLE 2M_Ant1_2480_30~1000



BLE_2M_Ant1_2480_1000~26500



Appendix A.6: Test Results of Radiated Spurious Emissions

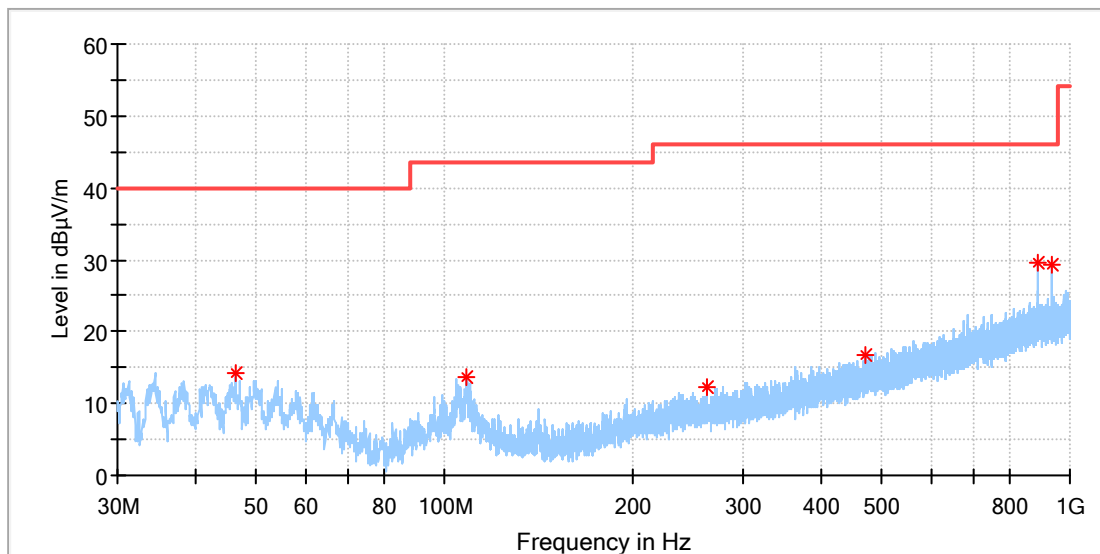
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

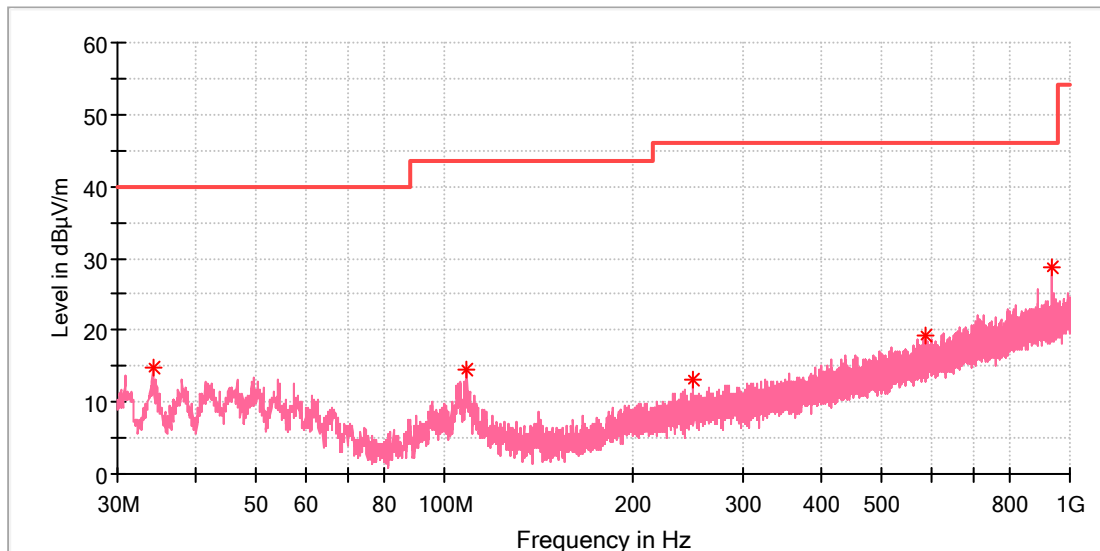
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
46.328333	14.10	40.00	25.90	100.0	H	164.0	-18.7
108.785556	13.58	43.50	29.92	100.0	H	148.0	-19.1
263.500556	12.37	46.00	33.63	100.0	H	120.0	-17.1
469.410000	16.87	46.00	29.13	100.0	H	164.0	-12.4
890.982778	29.61	46.00	16.39	100.0	H	340.0	-4.9
936.950000	29.23	46.00	16.77	100.0	H	104.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Smart Ceiling LED Light
Model: CE02N
Test Mode: BLE 1M_Mid channel
Order No/Sample No: 27232029/A004264923-002
Test Voltage: 120V/60Hz
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

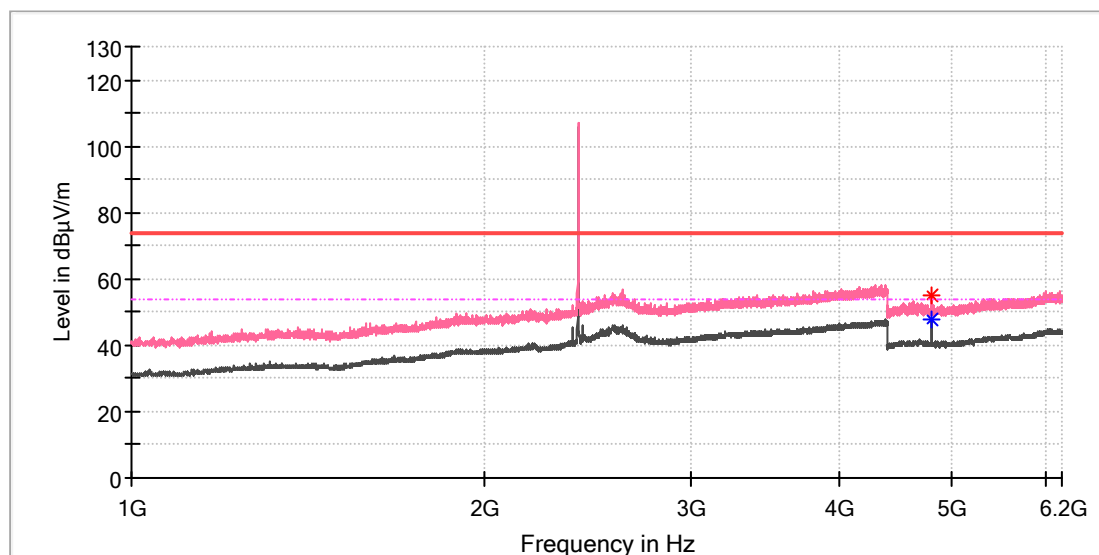
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
34.149444	14.91	40.00	25.09	100.0	V	334.0	-22.3
108.785556	14.43	43.50	29.07	100.0	V	0.0	-19.1
250.028333	12.99	46.00	33.01	100.0	V	163.0	-17.4
586.564444	19.22	46.00	26.78	100.0	V	155.0	-10.0
936.950000	28.72	46.00	17.28	100.0	V	210.0	-4.4

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

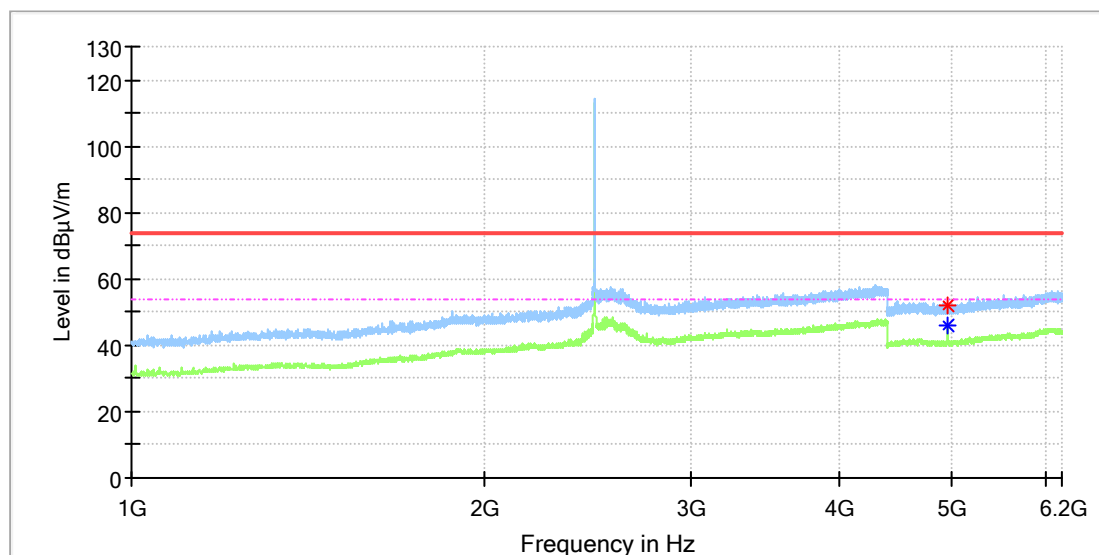
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	54.86	---	74.00	19.14	150.0	V	344.0	13.3
4804.000000	---	47.48	54.00	6.52	150.0	V	57.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

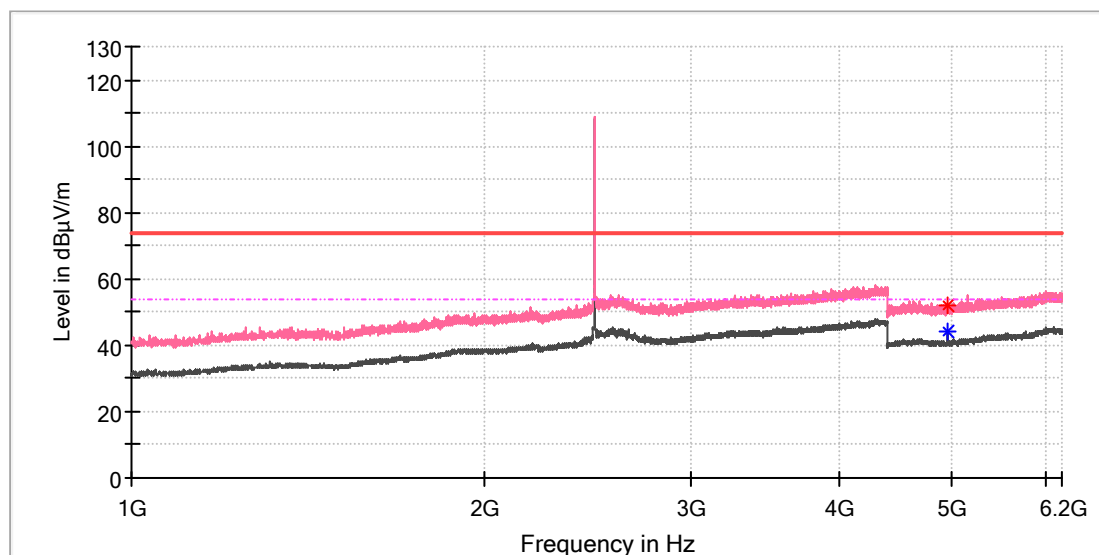
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4960.000000	52.30	---	74.00	21.70	150.0	H	13.0	13.3
4960.000000	---	45.69	54.00	8.31	150.0	H	13.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 1M_High channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	51.87	---	74.00	22.13	150.0	V	37.0	13.3
4960.000000	---	44.06	54.00	9.94	150.0	V	206.0	13.3

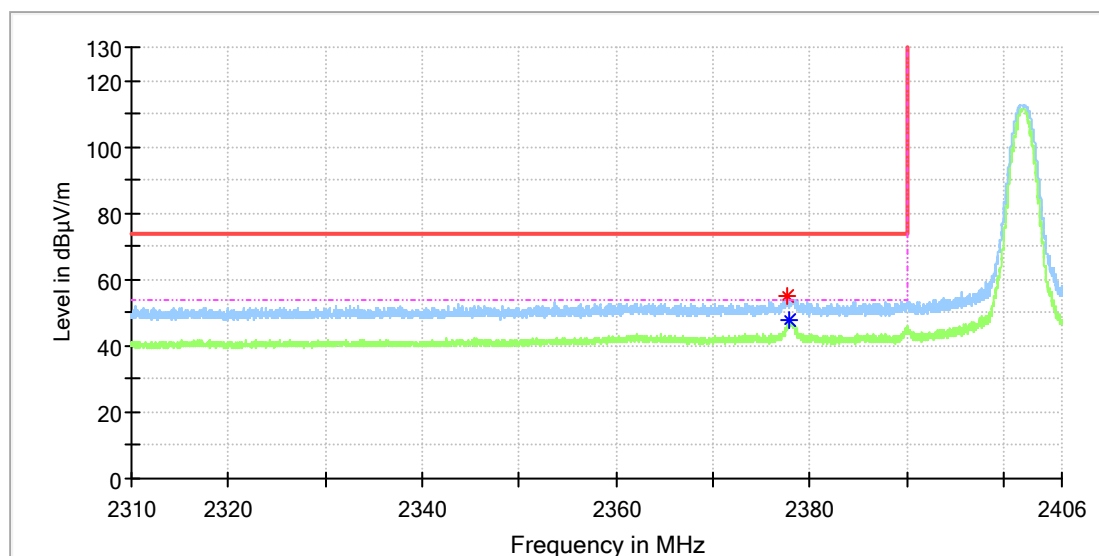
Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

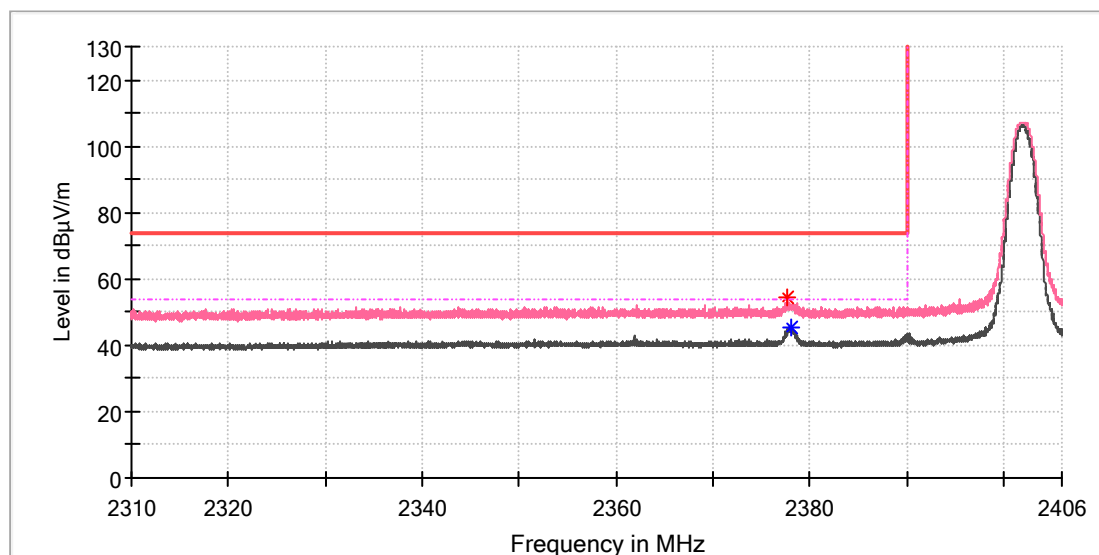
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.749706	54.75	---	74.00	19.25	150.0	H	230.0	8.5
2377.821765	---	47.72	54.00	6.28	150.0	H	307.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 1M_Low channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

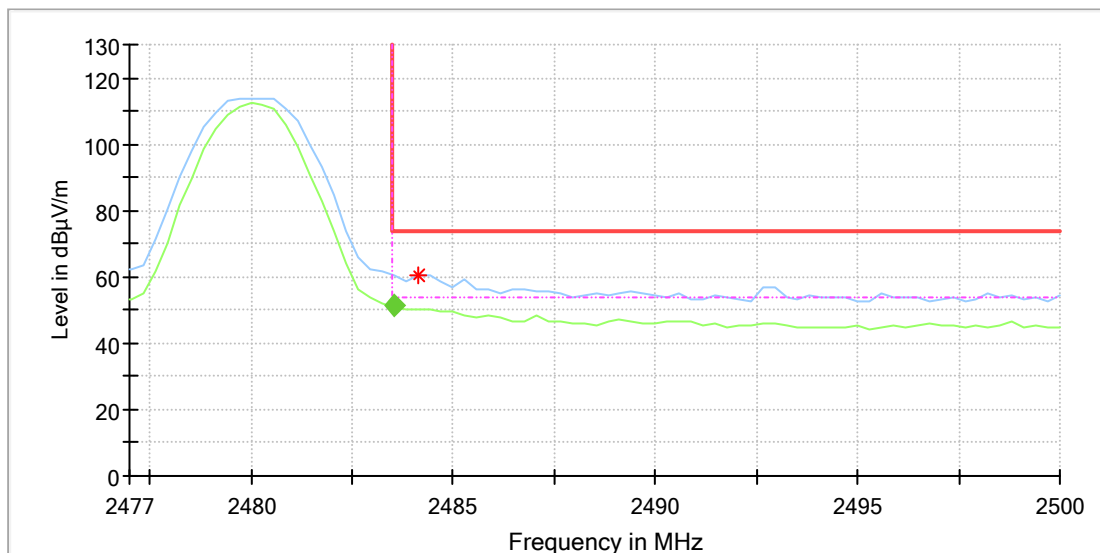
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.735294	54.36	---	74.00	19.64	150.0	V	112.0	8.5
2377.965882	---	45.59	54.00	8.41	150.0	V	120.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name: Smart Ceiling LED Light
Model: CE02N
Test Mode: BLE 1M_High channel
Order No/Sample No: 27232029/A004264923-002
Test Voltage: 120V/60Hz
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

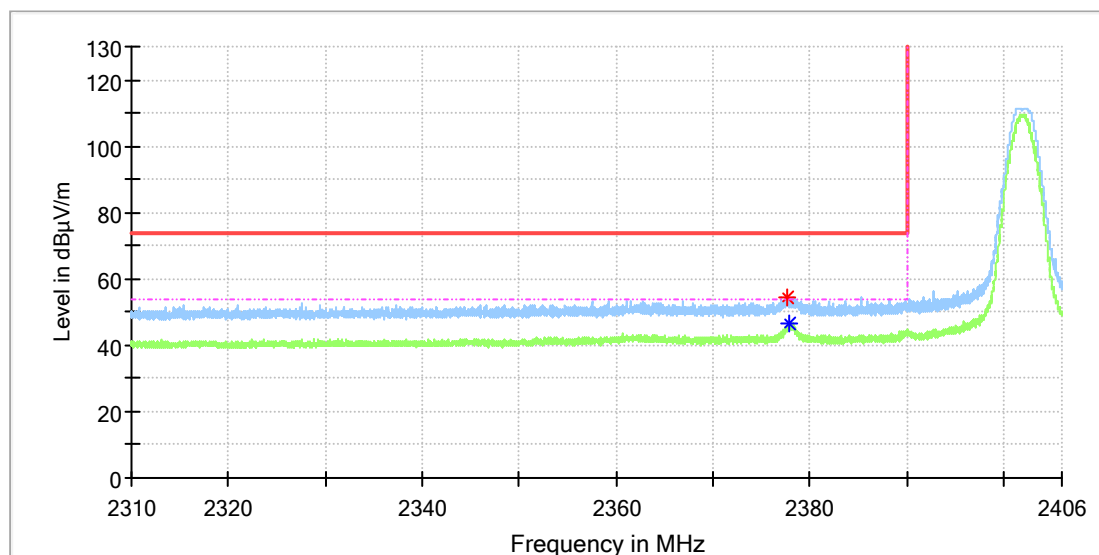
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	60.75	---	74.00	13.25	150.0	H	306.0	9.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	51.42	54.00	2.58	150.0	H	350.0	9.0

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

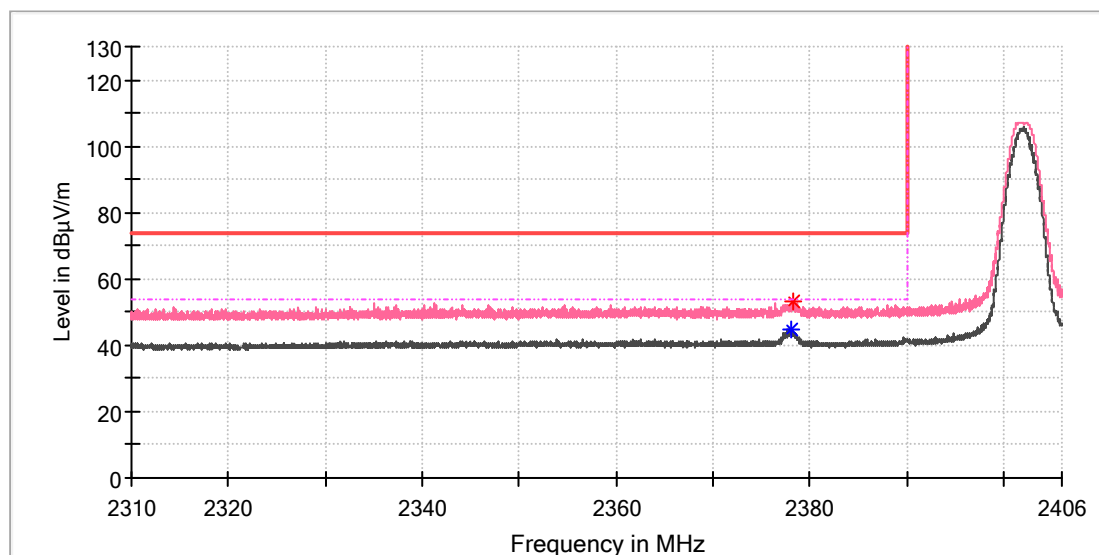
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2377.663235	54.53	---	74.00	19.47	150.0	H	304.0	8.5
2377.951471	---	46.71	54.00	7.29	150.0	H	311.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.00	100.00	100.00	100.00	100.00	100.00		100.00	100.00

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

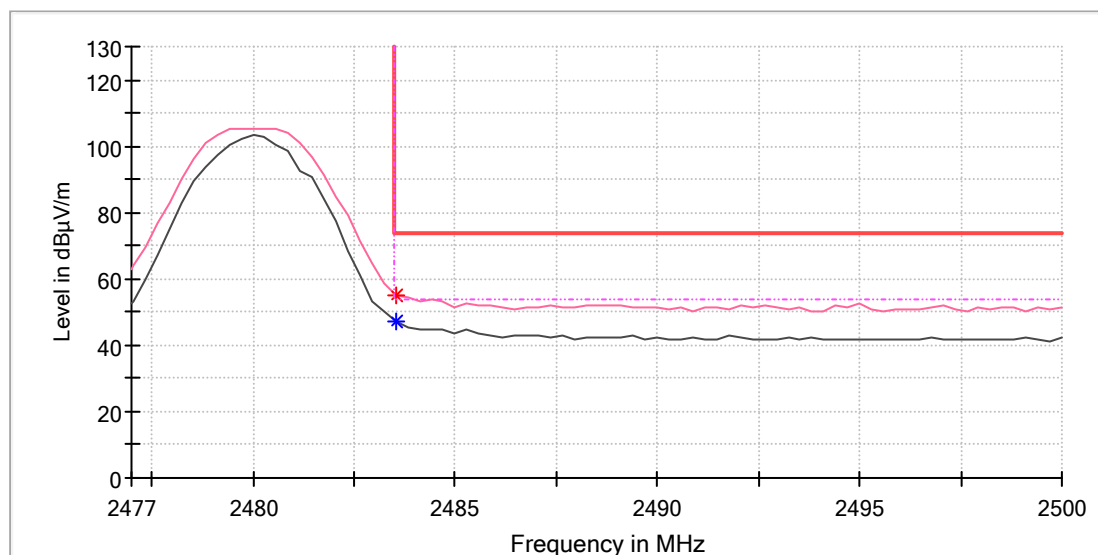
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2378.110000	---	44.94	54.00	9.06	150.0	V	119.0	8.5
2378.254118	52.94	---	74.00	21.06	150.0	V	55.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	BLE 2M_High channel
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	55.32	---	74.00	18.68	150.0	V	2.0	9.0
2483.529412	---	47.16	54.00	6.84	150.0	V	2.0	9.0

Final Result

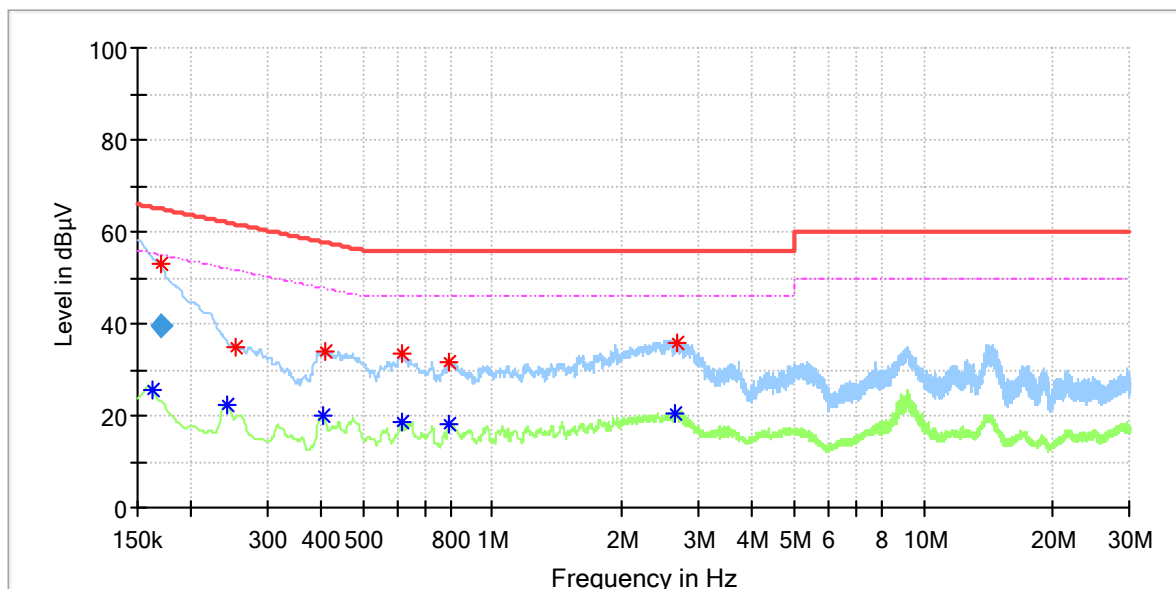
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
100.000000	100.000000	100.000000	100.000000	100.000000	100.000000		100.000000	100.000000

Appendix A.8: Test Results of Conducted Emission on AC Mains

Test Report

EUT Information

EUT Name: Smart Ceiling LED Light
Order Number: P02404351-27232029
Model: CE02N
Test Mode: Normal Working+Lighting+BLE/2.4G wifi
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Kai Chen/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.2%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.16	---	25.46	55.38	29.92	L1	10.24
0.17	53.00	---	65.64	12.64	L1	10.24
0.24	---	22.19	52.00	29.80	L1	10.24
0.25	34.84	---	61.61	26.77	L1	10.24
0.40	---	19.86	47.78	27.92	L1	10.25
0.41	33.80	---	57.64	23.85	L1	10.25
0.62	33.39	---	56.00	22.61	L1	10.27
0.62	---	18.83	46.00	27.17	L1	10.27
0.79	31.59	---	56.00	24.41	L1	10.28
0.80	---	18.25	46.00	27.75	L1	10.28
2.65	---	20.49	46.00	25.51	L1	10.32
2.67	35.91	---	56.00	20.09	L1	10.33

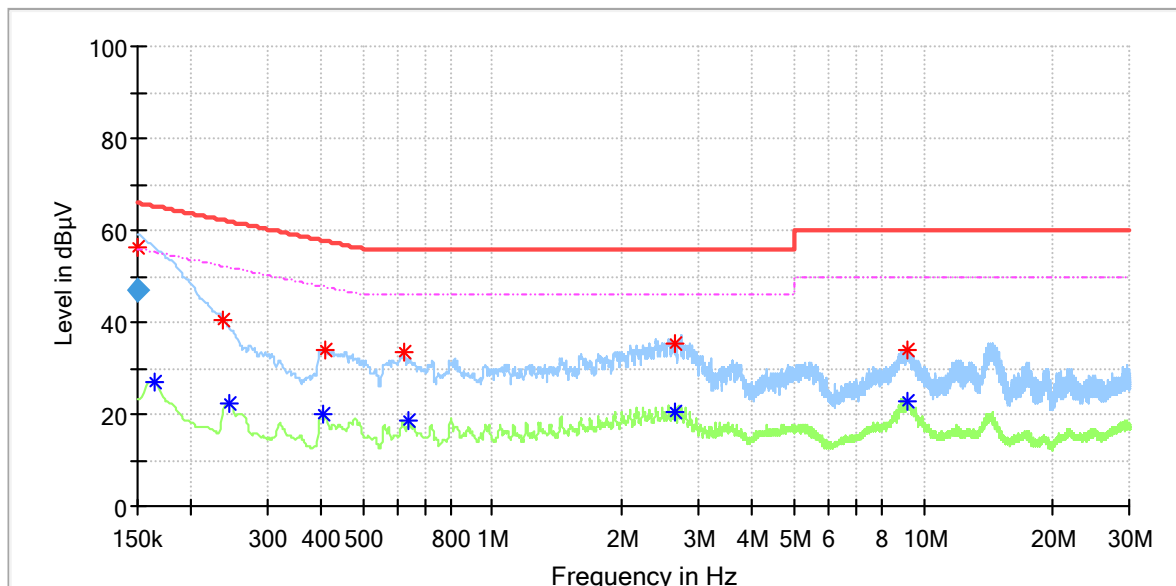
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.17	39.34	---	64.96	25.62	1000.00	9.00	L1	10.24

Test Report

EUT Information

EUT Name: Smart Ceiling LED Light
Order Number: P02404351-27232029
Model: CE02N
Test Mode: Normal Working+Lighting+BLE/2.4G wifi
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Kai Chen/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	56.29	---	65.21	8.92	N	10.25
0.16	---	26.95	55.21	28.26	N	10.25
0.24	40.62	---	62.17	21.55	N	10.25
0.25	---	22.37	51.89	29.52	N	10.25
0.40	---	20.13	47.81	27.68	N	10.26
0.41	33.72	---	57.68	23.95	N	10.26
0.62	33.41	---	56.00	22.59	N	10.28
0.64	---	18.78	46.00	27.22	N	10.28
2.63	---	20.34	46.00	25.66	N	10.32
2.65	35.47	---	56.00	20.53	N	10.32
9.13	33.96	---	60.00	26.04	N	10.62
9.16	---	22.85	50.00	27.15	N	10.62

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	47.10	---	66.00	18.90	1000.00	9.00	N	10.25

Appendix B: Test Results of 2.4GHz Wi-Fi

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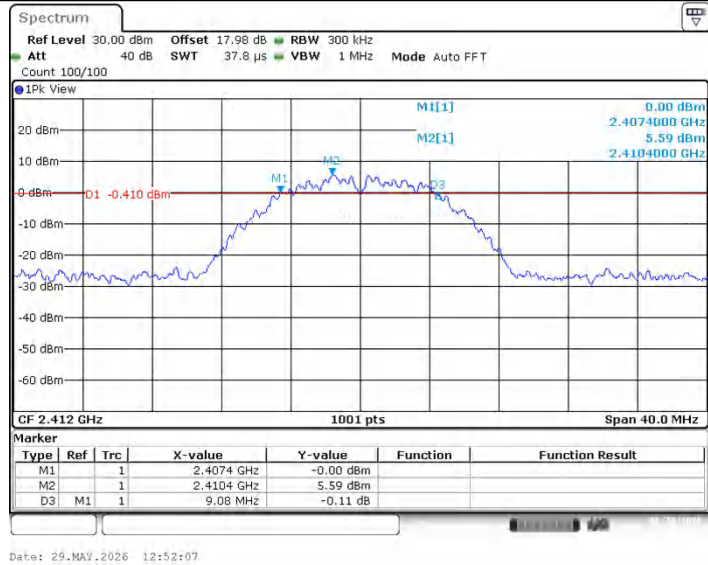
Appendix B.1: Test Results of 6dB Bandwidth

Test Result

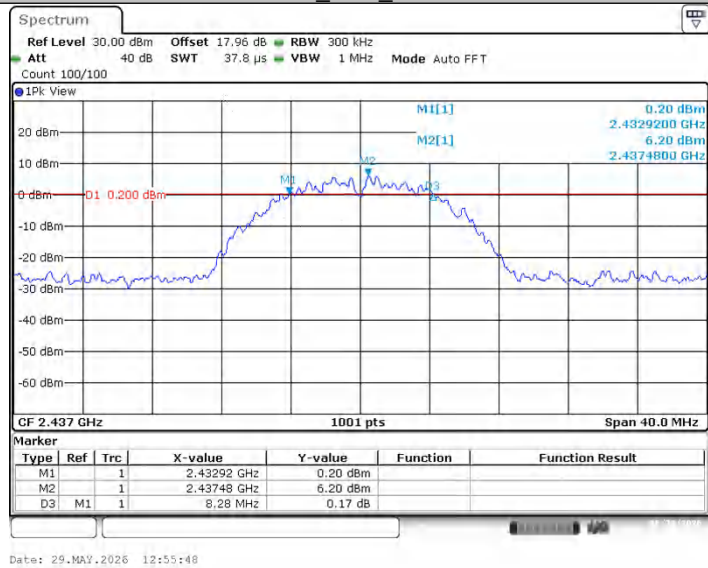
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.40	2416.48	0.5	PASS
		2437	8.28	2432.92	2441.20	0.5	PASS
		2462	8.92	2457.40	2466.32	0.5	PASS
11G	Ant1	2412	16.32	2403.80	2420.12	0.5	PASS
		2437	16.32	2428.80	2445.12	0.5	PASS
		2462	16.32	2453.80	2470.12	0.5	PASS
11N20SISO	Ant1	2412	17.52	2403.20	2420.72	0.5	PASS
		2437	17.52	2428.20	2445.72	0.5	PASS
		2462	17.44	2453.28	2470.72	0.5	PASS
11N40SISO	Ant1	2422	36.32	2403.92	2440.24	0.5	PASS
		2437	35.68	2419.16	2454.84	0.5	PASS
		2452	36.24	2433.92	2470.16	0.5	PASS
11AX20SISO	Ant1	2412	18.96	2402.48	2421.44	0.5	PASS
		2437	18.96	2427.48	2446.44	0.5	PASS
		2462	18.92	2452.48	2471.40	0.5	PASS

Test Graphs

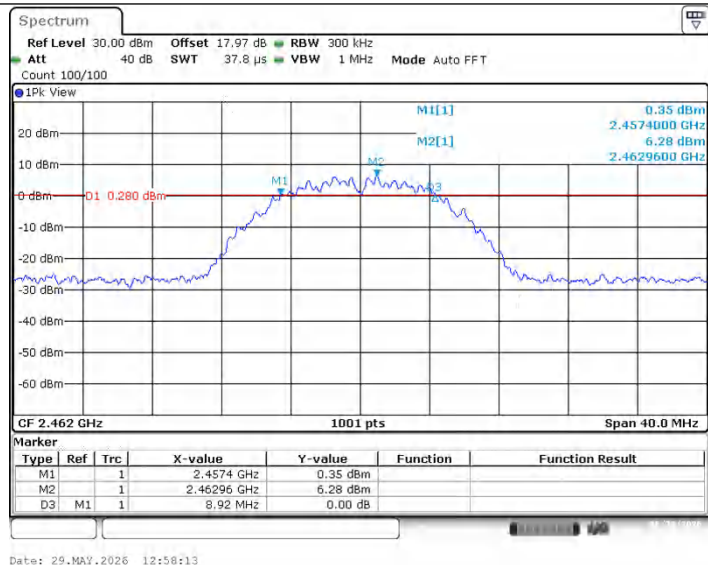
11B_Ant1_2412



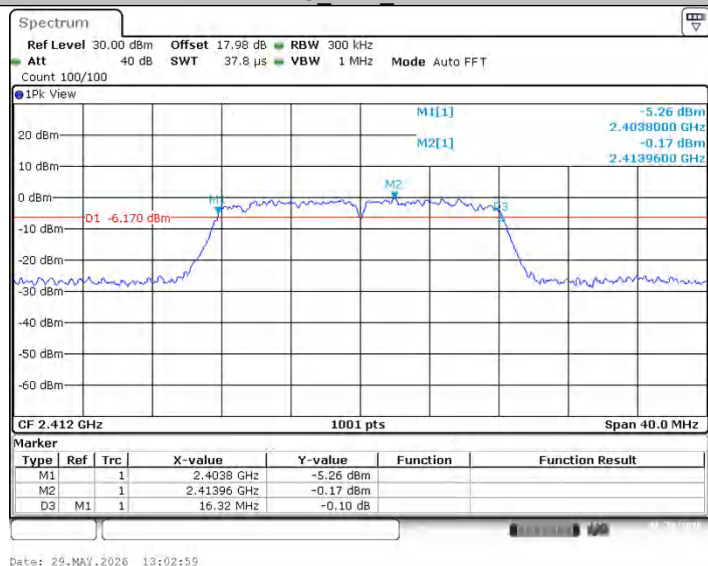
11B_Ant1_2437



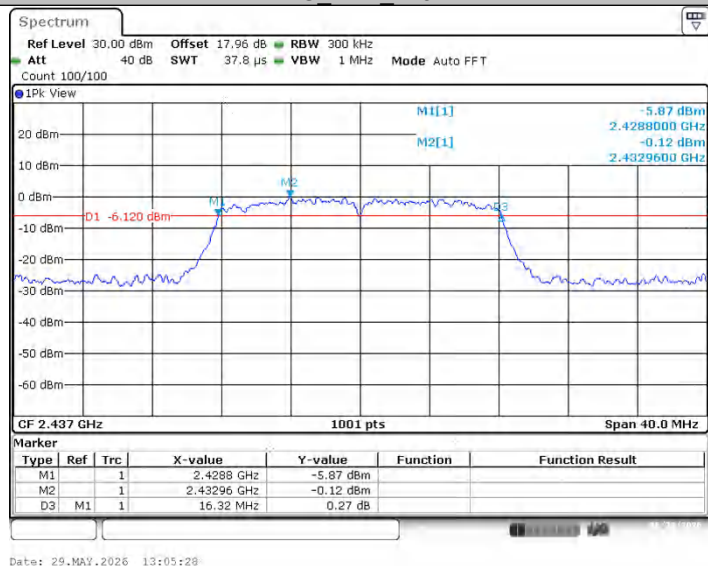
11B_Ant1_2462



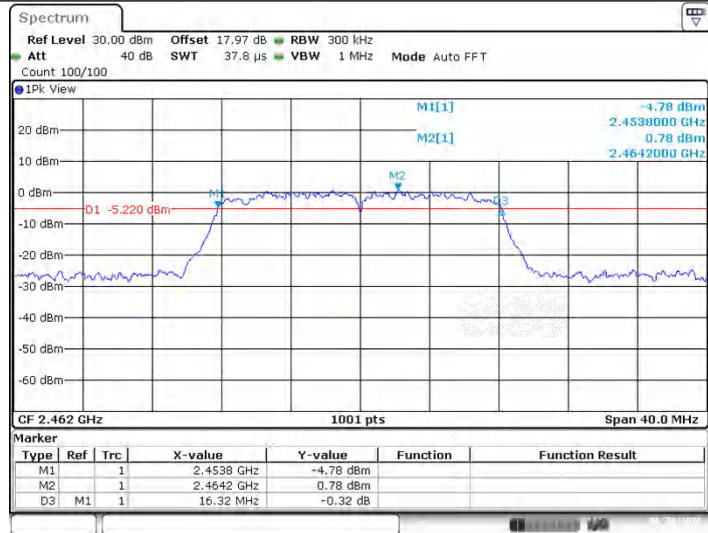
11G Ant1 2412



11G Ant1 2437

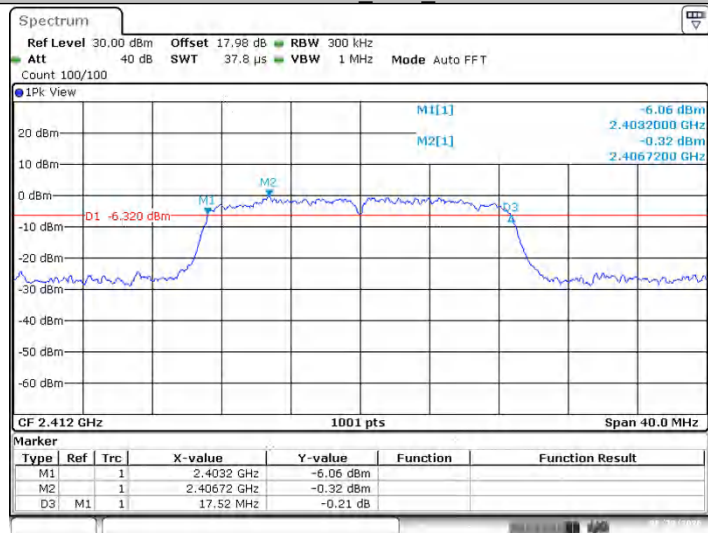


11G_Ant1_2462



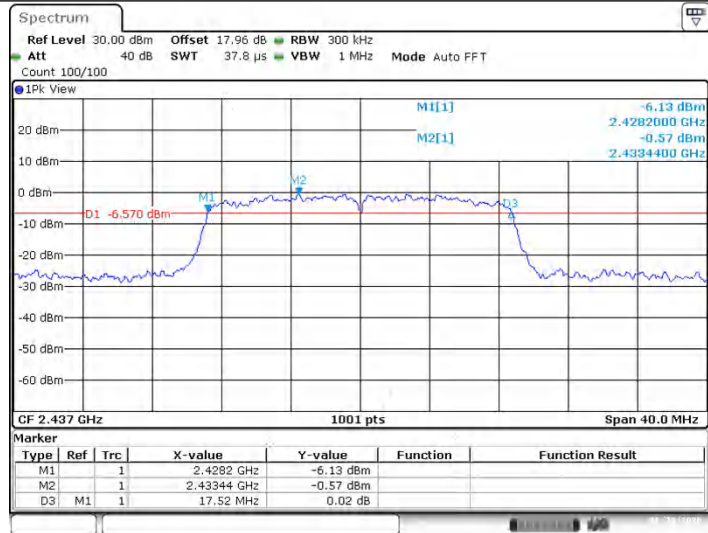
Date: 29.MAY.2026 13:07:43

11N20SISO Ant1_2412



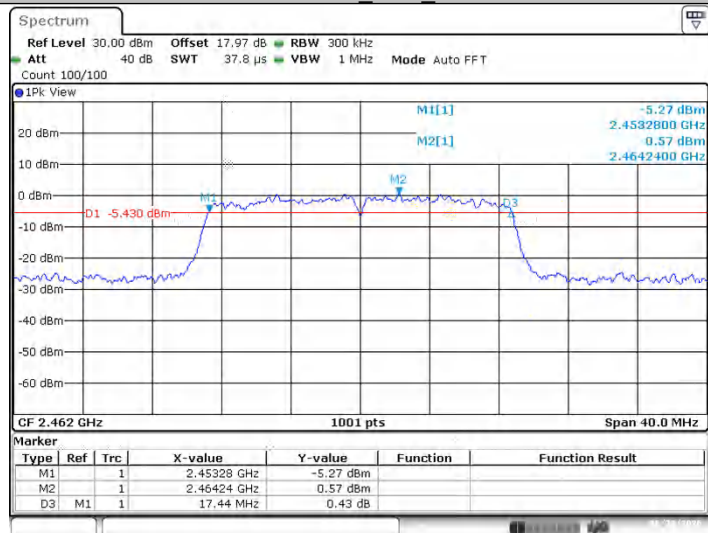
Date: 29.MAY.2026 13:10:18

11N20SISO Ant1_2437



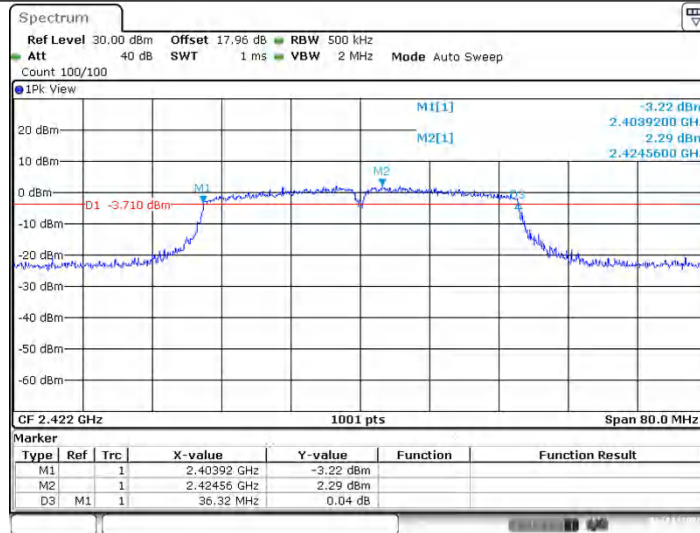
Date: 29.MAY.2026 13:12:51

11N20SISO Ant1_2462



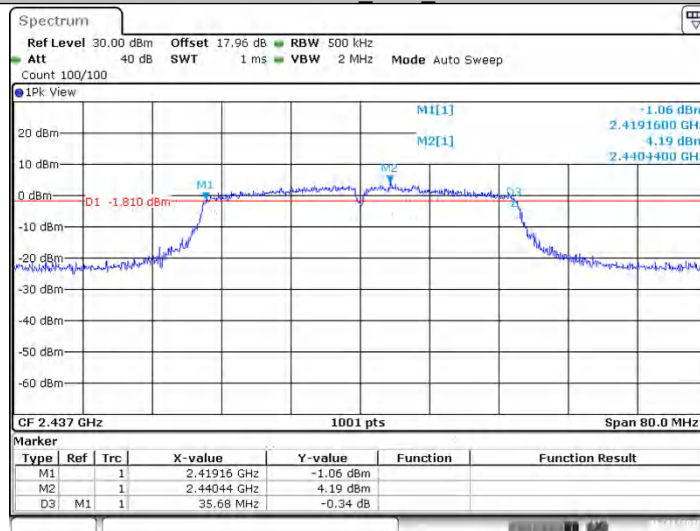
Date: 29.MAY.2026 13:15:24

11N40SISO Ant1_2422



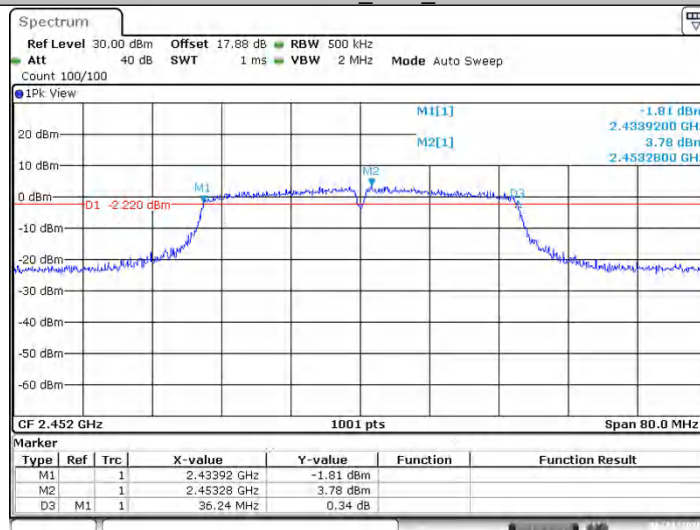
Date: 11.JUN.2026 10:14:17

11N40SISO Ant1_2437



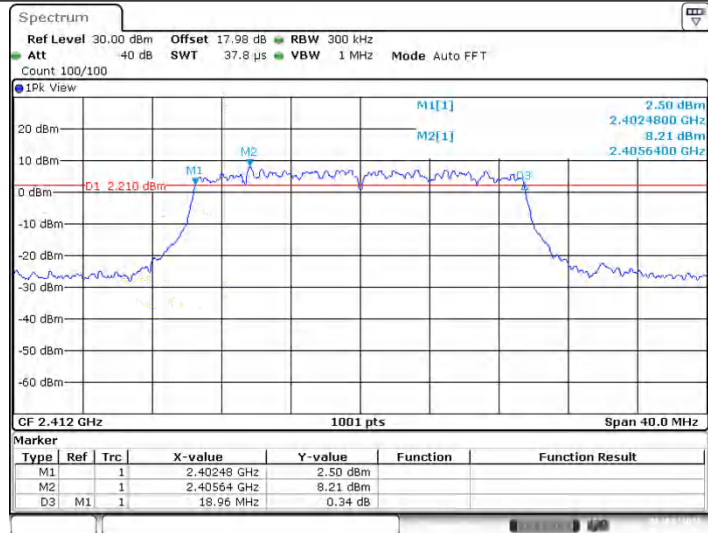
Date: 11.JUN.2026 10:17:53

11N40SISO Ant1_2452



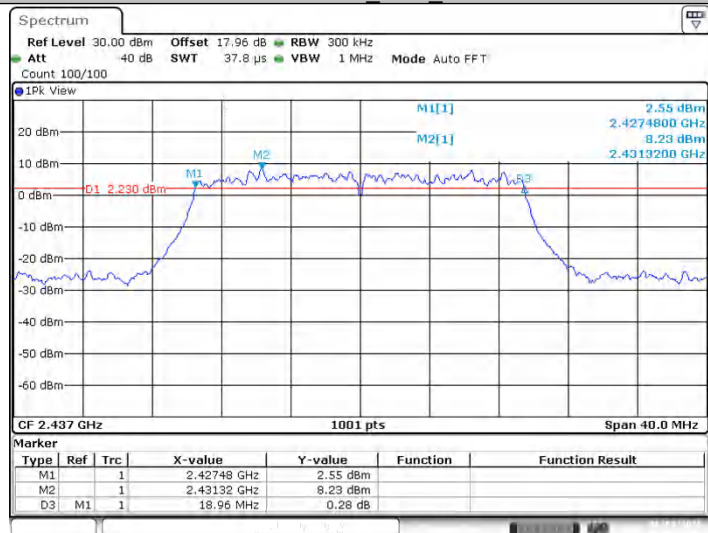
Date: 11.JUN.2026 10:20:47

11AX20SISO_Ant1_2412



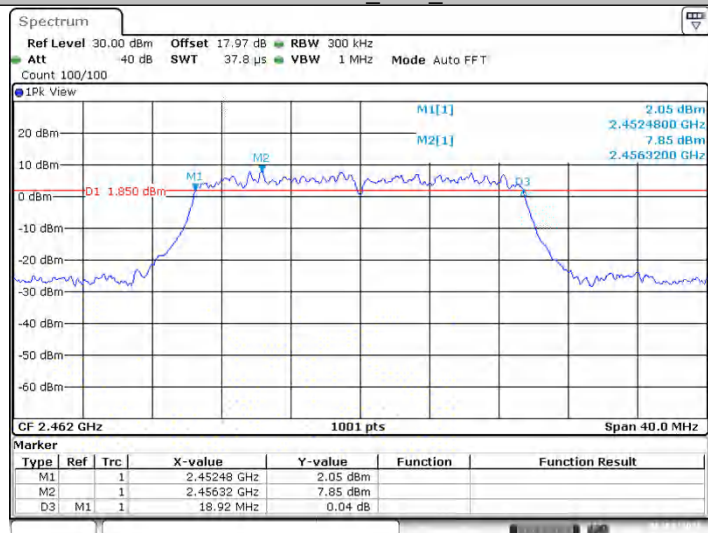
Date: 1.JUN.2026 13:32:24

11AX20SISO_Ant1_2437



Date: 1.JUN.2026 13:35:17

11AX20SISO_Ant1_2462



Date: 1.JUN.2026 13:38:01

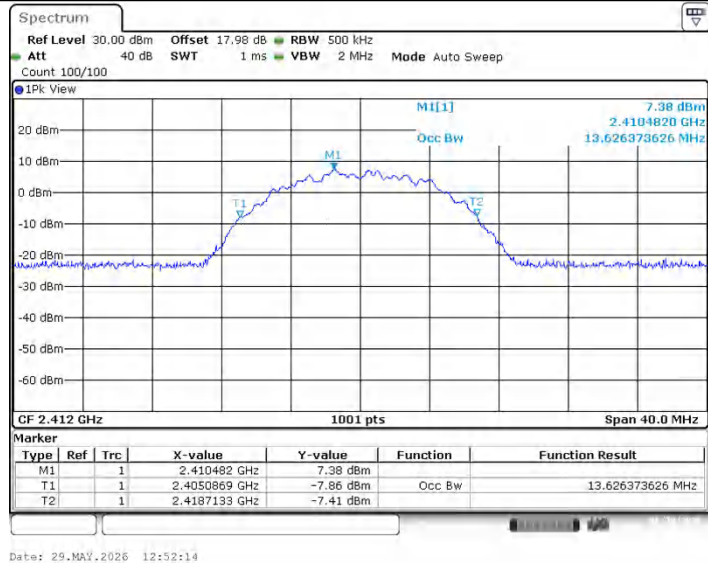
Appendix B.2: Test Results of 99% Bandwidth

Test Result

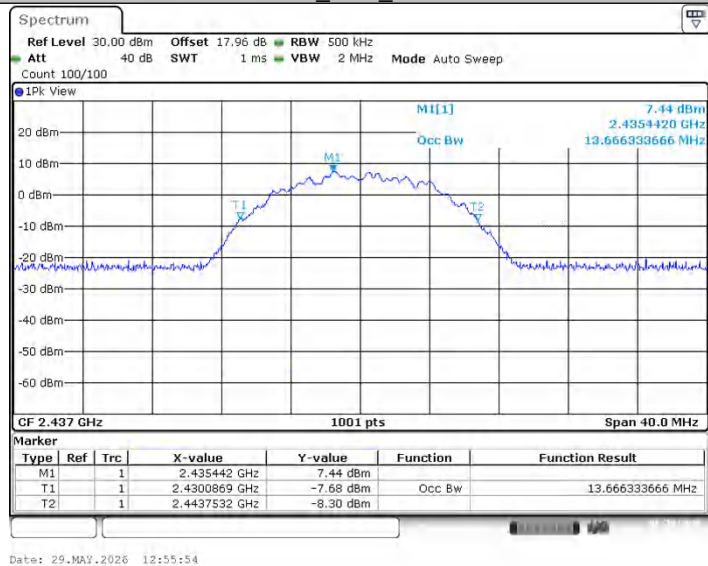
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.626	2405.0869	2418.7133	---	PASS
		2437	13.666	2430.0869	2443.7532	---	PASS
		2462	13.546	2455.1269	2468.6733	---	PASS
11G	Ant1	2412	17.502	2403.2088	2420.7113	---	PASS
		2437	17.502	2428.2488	2445.7512	---	PASS
		2462	17.463	2453.2488	2470.7113	---	PASS
11N20SISO	Ant1	2412	18.222	2402.8492	2421.0709	---	PASS
		2437	18.222	2427.8891	2446.1109	---	PASS
		2462	18.182	2452.8891	2471.0709	---	PASS
11N40SISO	Ant1	2422	36.364	2403.8581	2440.2218	---	PASS
		2437	36.364	2423.8581	2460.2218	---	PASS
		2452	36.364	2443.7782	2480.1419	---	PASS
11AX20SISO	Ant1	2412	19.301	2402.3297	2421.6304	---	PASS
		2437	19.301	2427.3297	2446.6304	---	PASS
		2462	19.301	2452.3297	2471.6304	---	PASS

Test Graphs

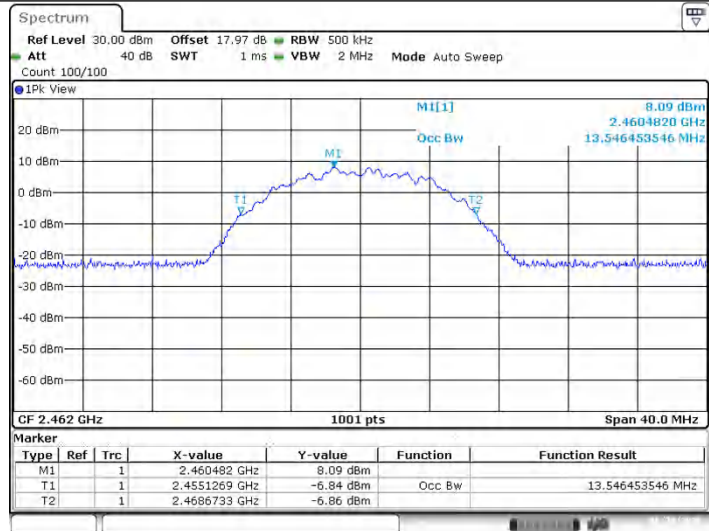
11B_Ant1_2412



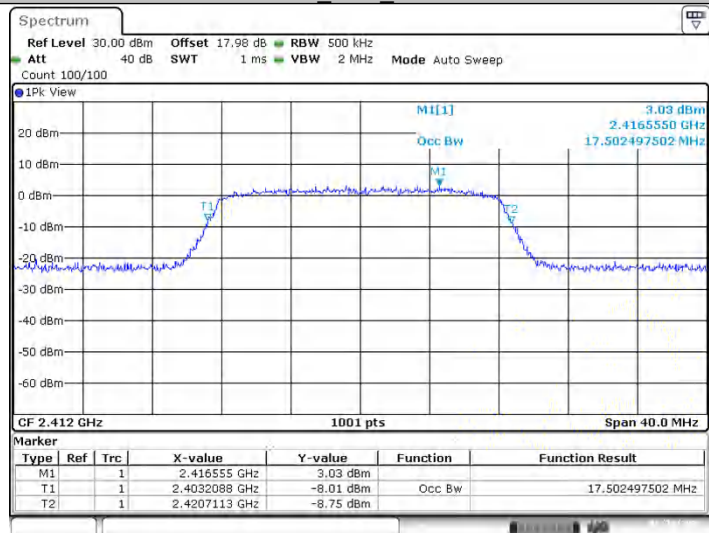
11B_Ant1_2437



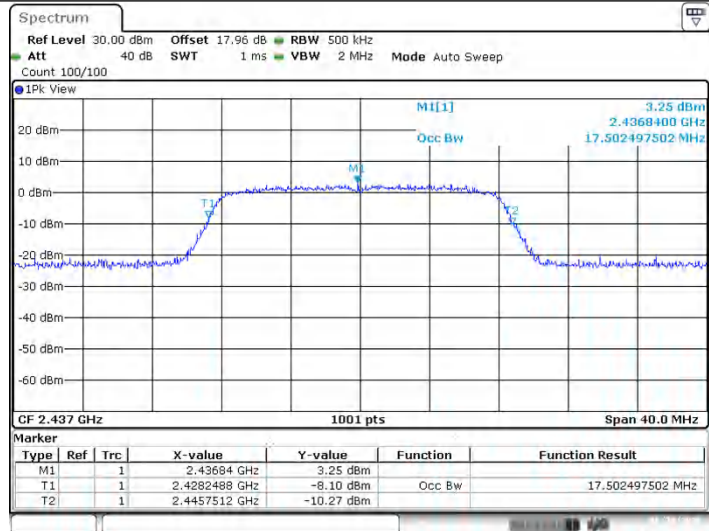
11B Ant1 2462



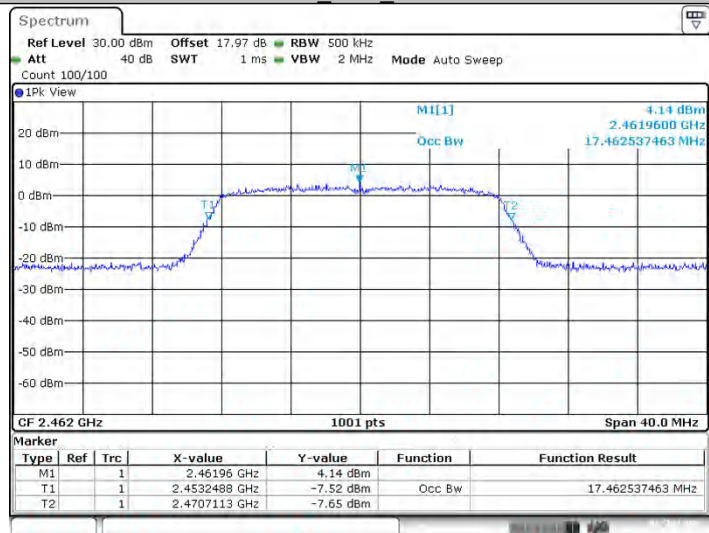
11G Ant1 2412



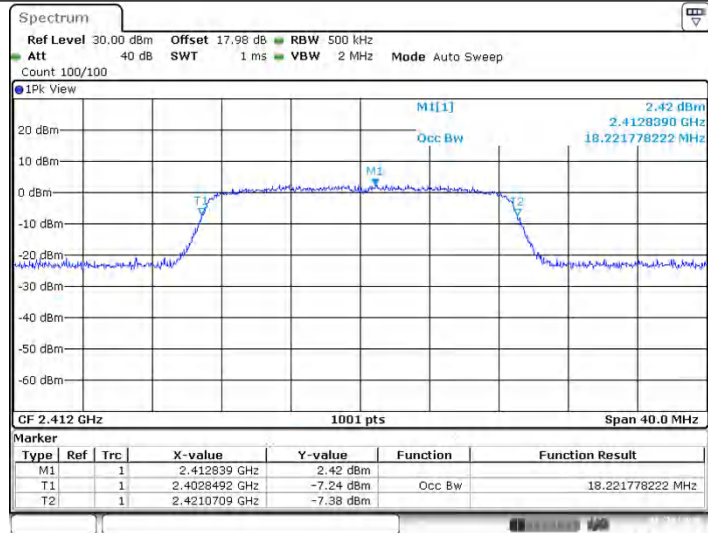
11G_Ant1_2437



11G_Ant1_2462

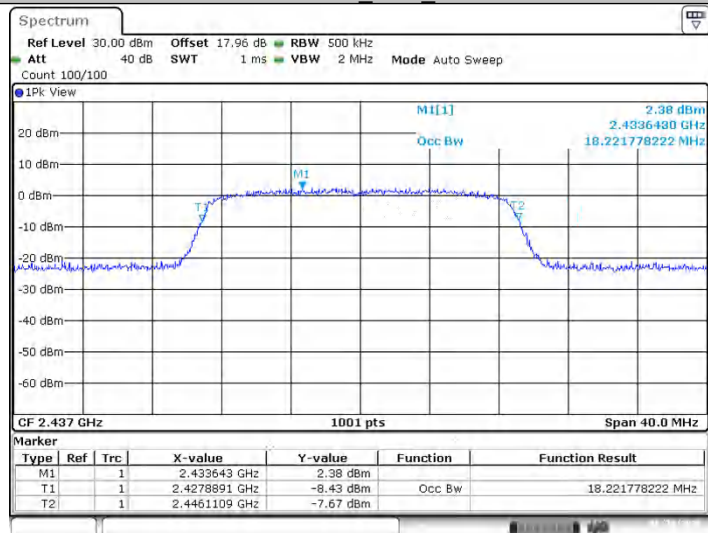


11N20SISO Ant1_2412



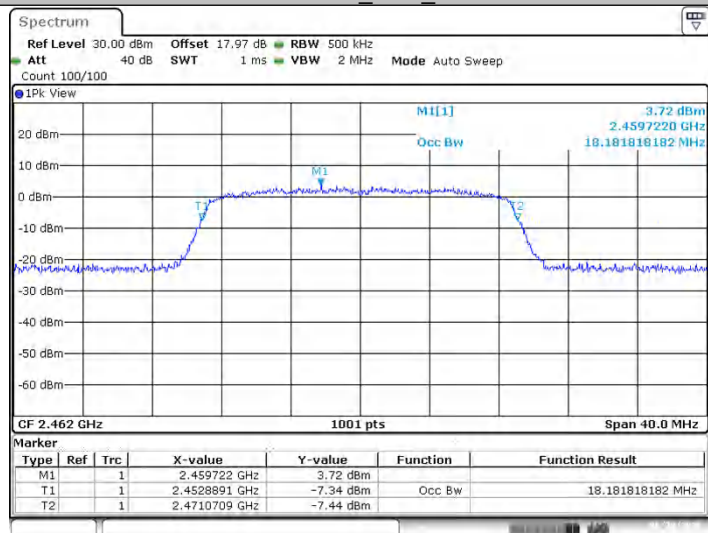
Date: 29.MAY.2026 13:10:25

11N20SISO Ant1_2437



Date: 29.MAY.2026 13:12:57

11N20SISO Ant1_2462



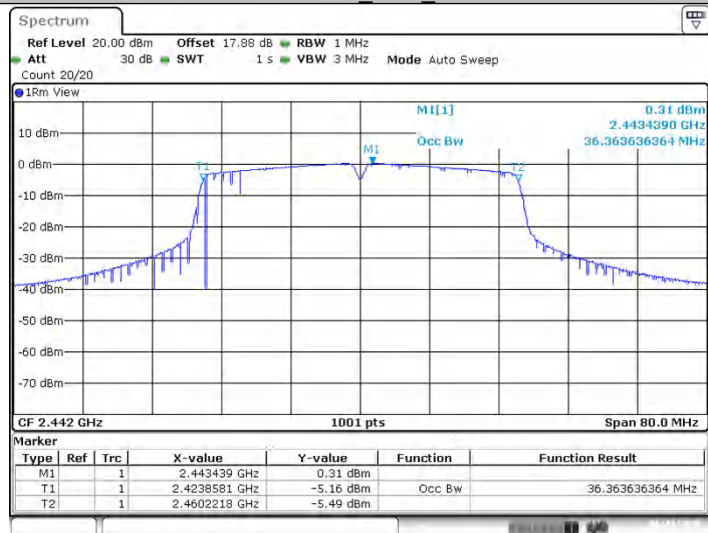
Date: 29.MAY.2026 13:15:31

11N40SISO Ant1_2422



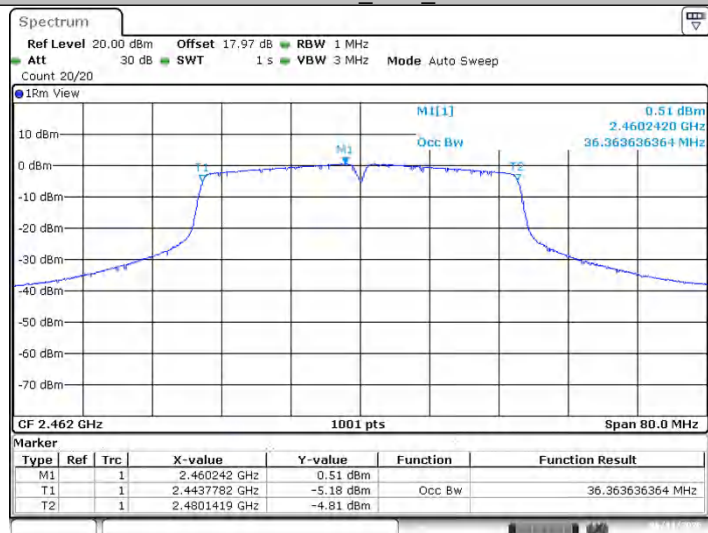
Date: 11.JUN.2026 06:53:21

11N40SISO Ant1_2437



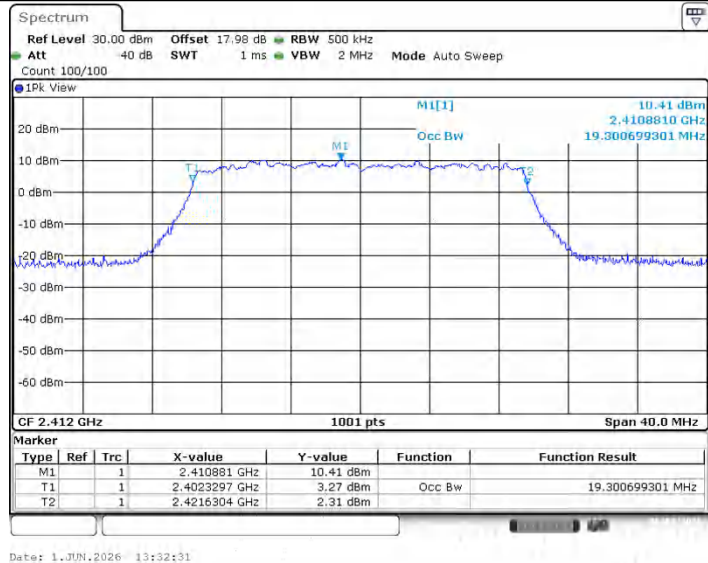
Date: 11.JUN.2026 07:00:26

11N40SISO Ant1_2452

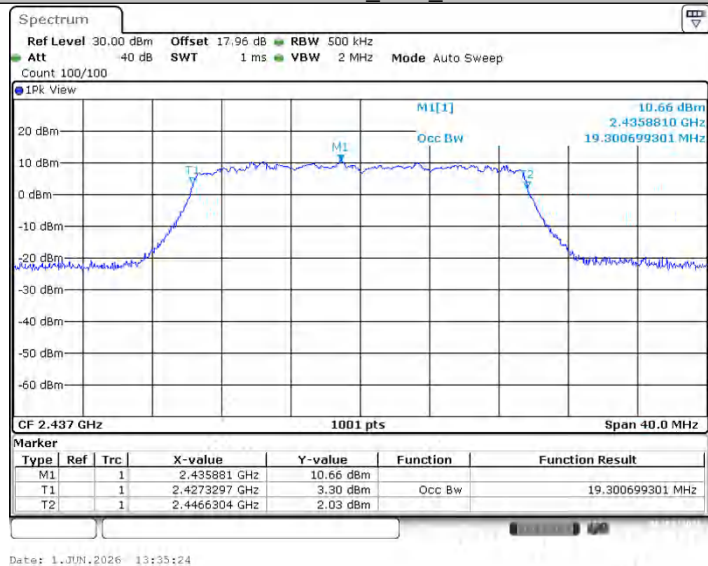


Date: 11.JUN.2026 07:03:08

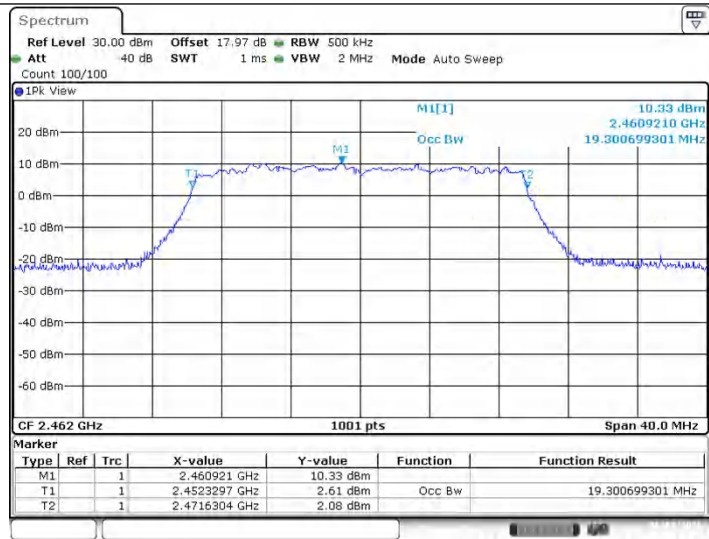
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Date: 1.JUN.2026 13:38:08

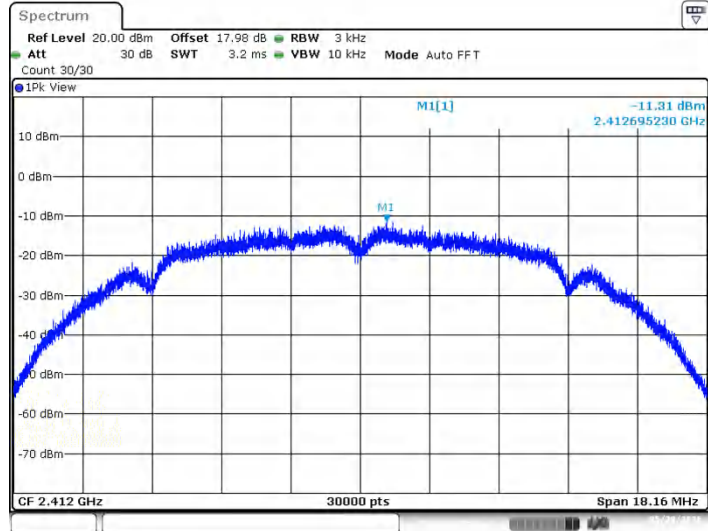
Appendix B.3: Test Results of Conducted Power Spectral Density

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.31	≤8.00	PASS
		2437	-11.42	≤8.00	PASS
		2462	-11.14	≤8.00	PASS
11G	Ant1	2412	-15.81	≤8.00	PASS
		2437	-15.58	≤8.00	PASS
		2462	-15.23	≤8.00	PASS
11N20SISO	Ant1	2412	-16.25	≤8.00	PASS
		2437	-15.61	≤8.00	PASS
		2462	-14.66	≤8.00	PASS
11N40SISO	Ant1	2422	-20.07	≤8.00	PASS
		2437	-20.00	≤8.00	PASS
		2452	-19.67	≤8.00	PASS
11AX20SISO	Ant1	2412	-11.54	≤8.00	PASS
		2437	-11.41	≤8.00	PASS
		2462	-11.42	≤8.00	PASS

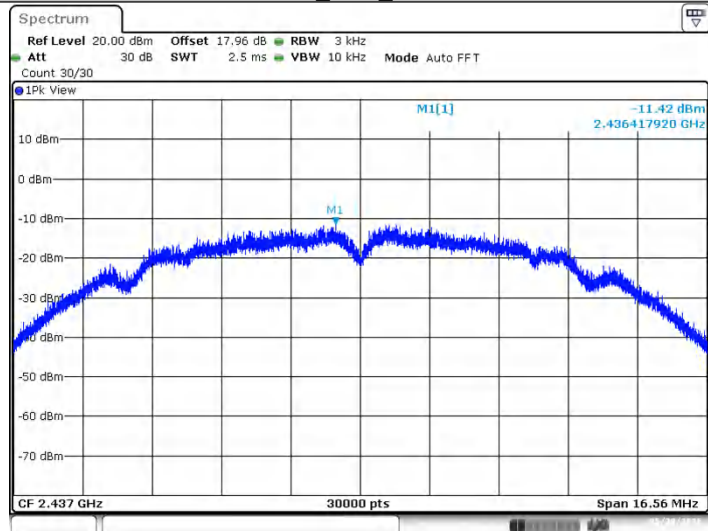
Test Graphs

11B_Ant1_2412



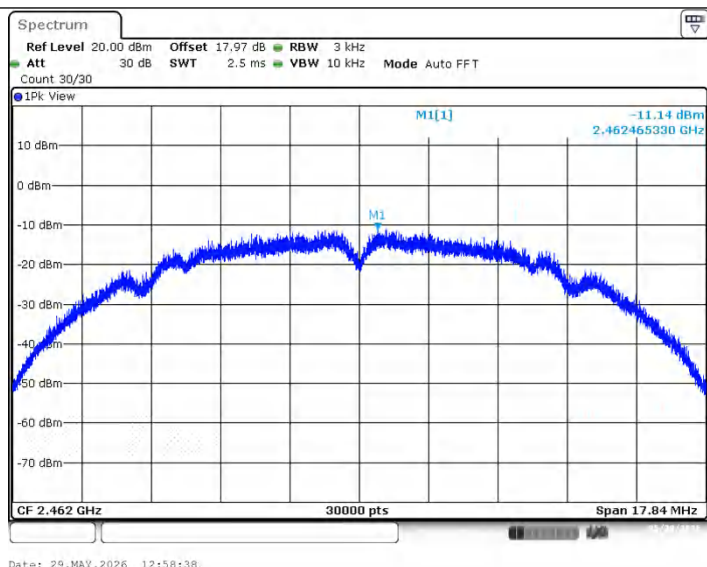
Date: 29.MAY.2026 12:52:59

11B_Ant1_2437

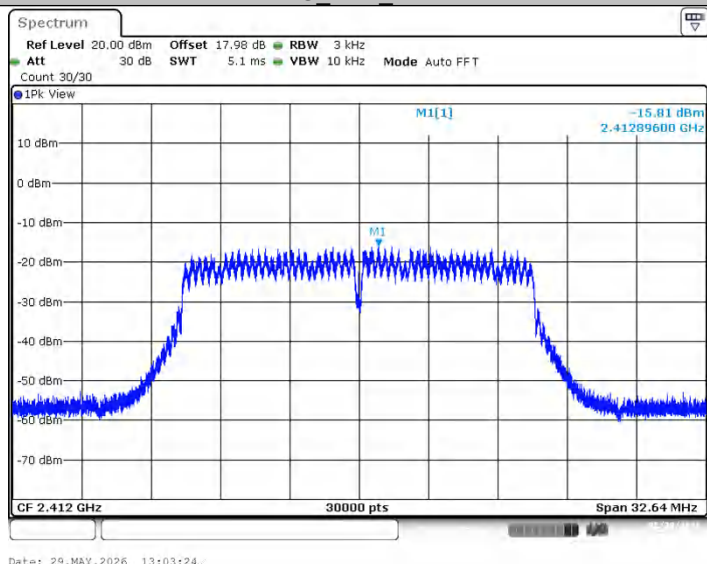


Date: 29.MAY.2026 12:56:11

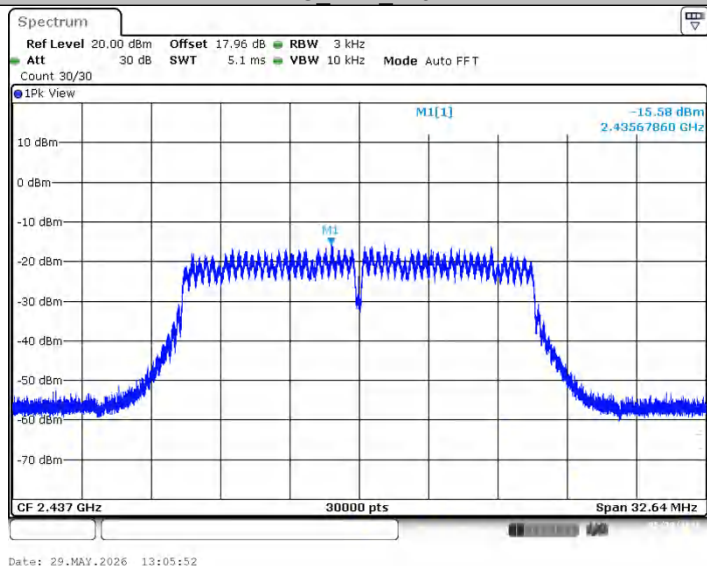
11B_Ant1_2462



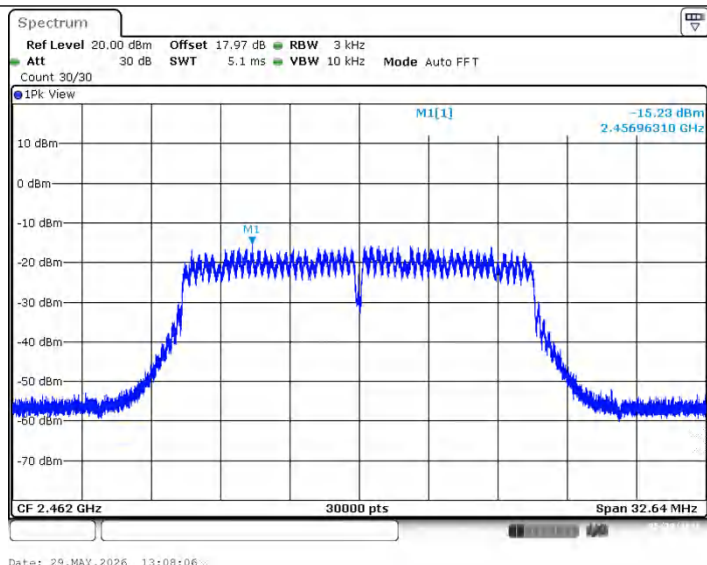
11G_Ant1_2412



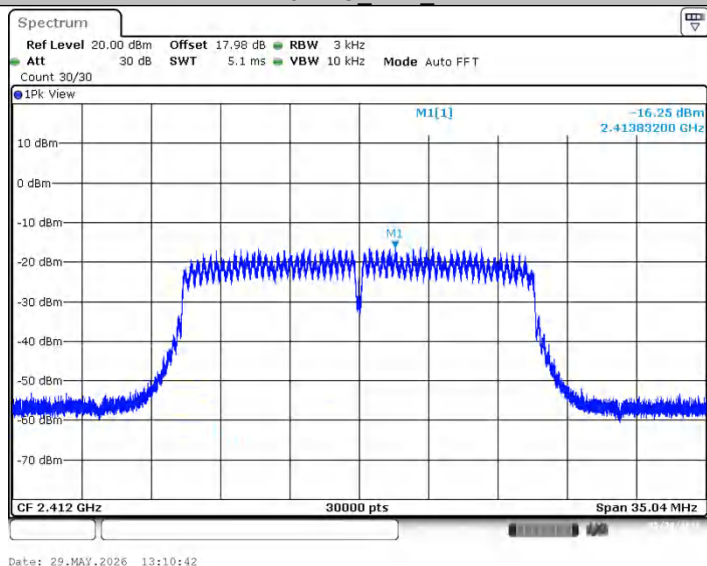
11G_Ant1_2437



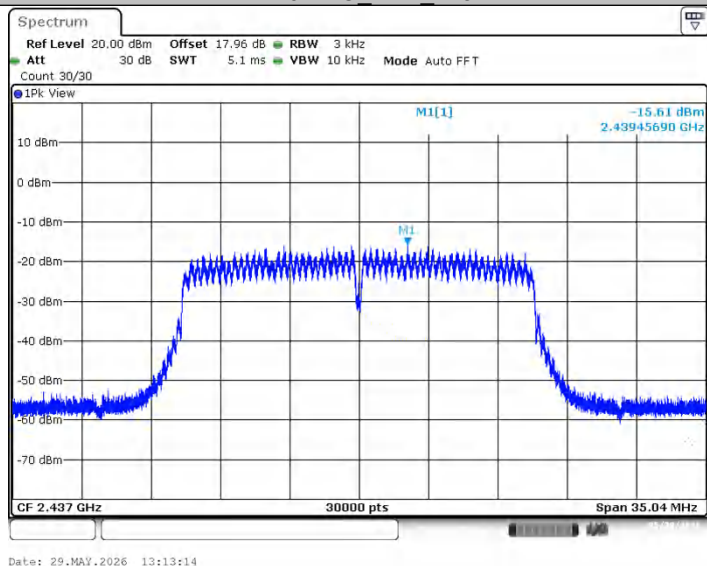
11G_Ant1_2462



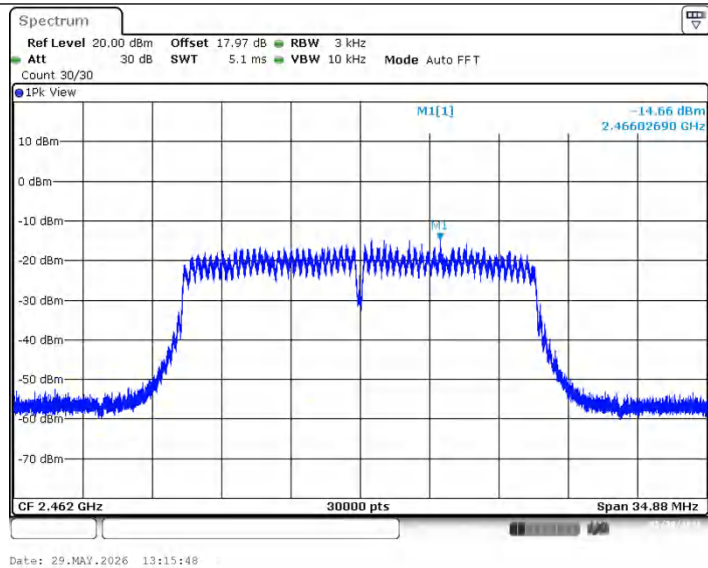
11N20SISO Ant1_2412



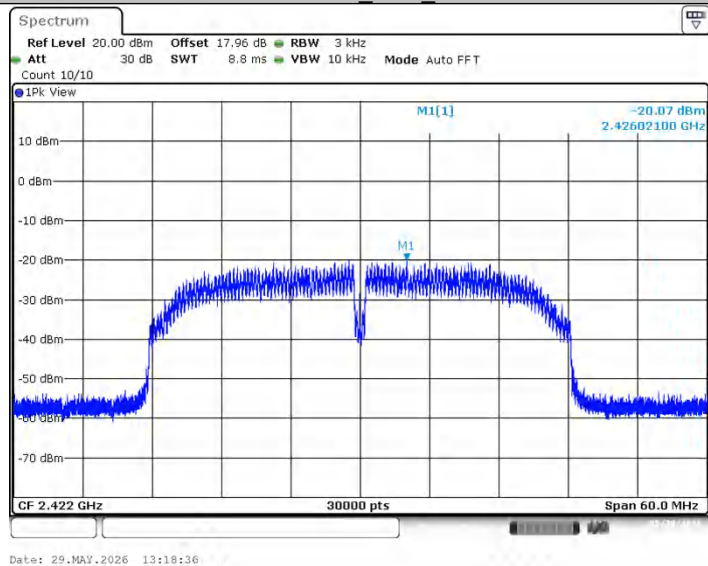
11N20SISO Ant1_2437



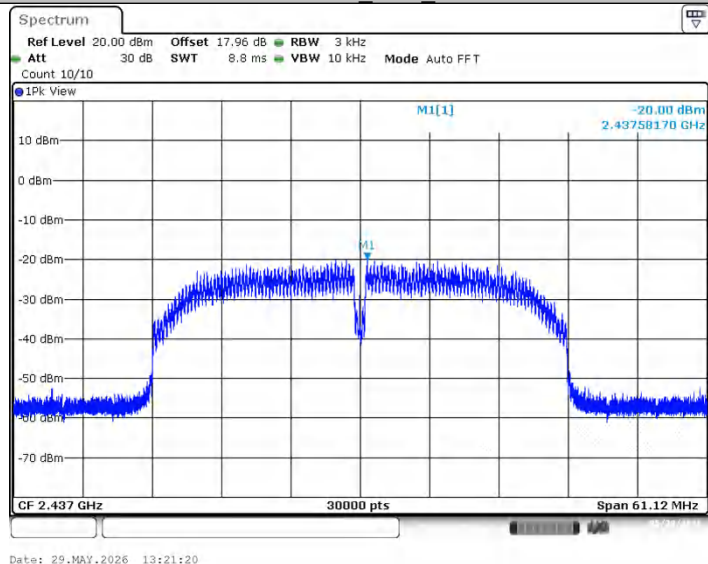
11N20SISO Ant1_2462



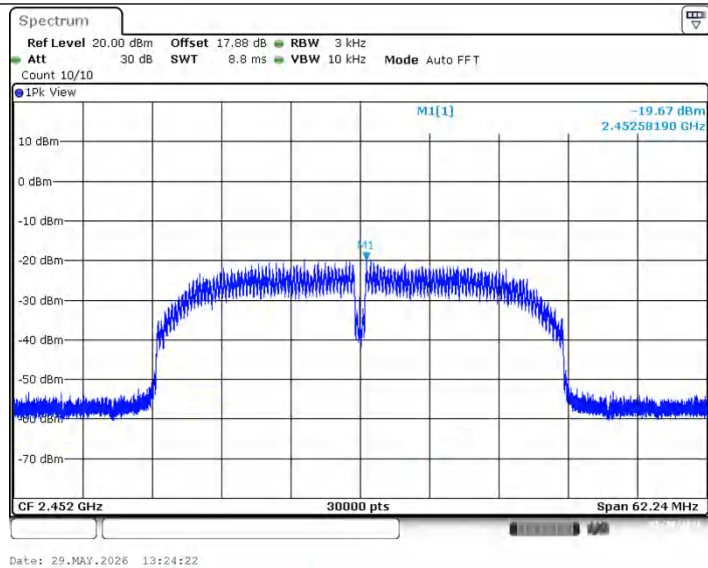
11N40SISO Ant1_2422



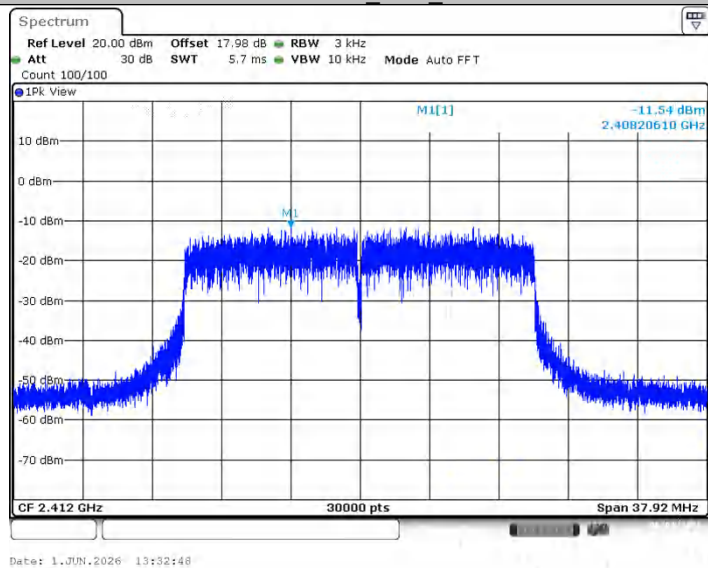
11N40SISO Ant1_2437



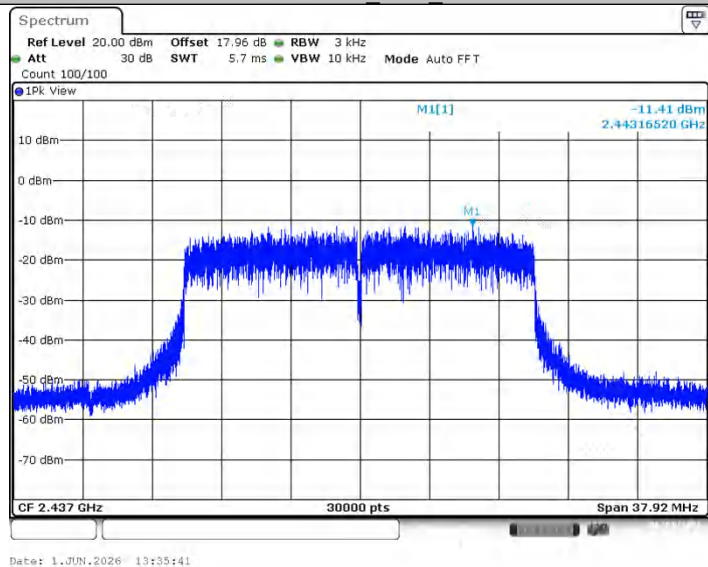
11N40SISO Ant1_2452



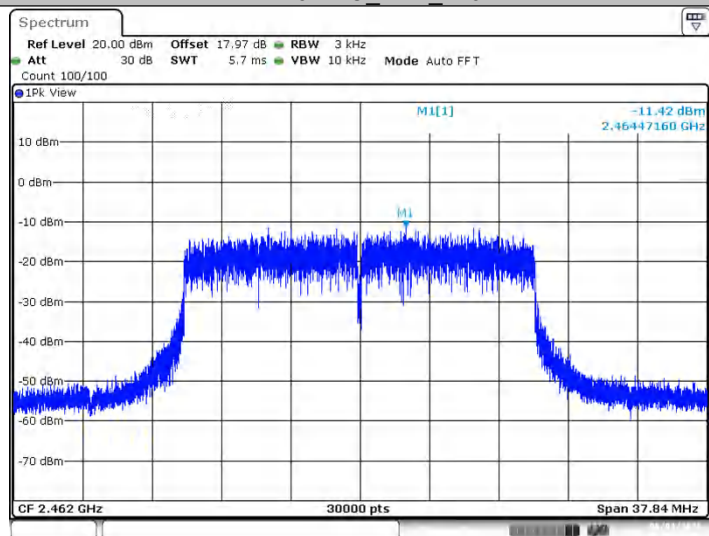
11AX20SISO_Ant1_2412



11AX20SISO_Ant1_2437



11AX20SISO_Ant1_2462



Date: 1.JUN.2026 13:38:25

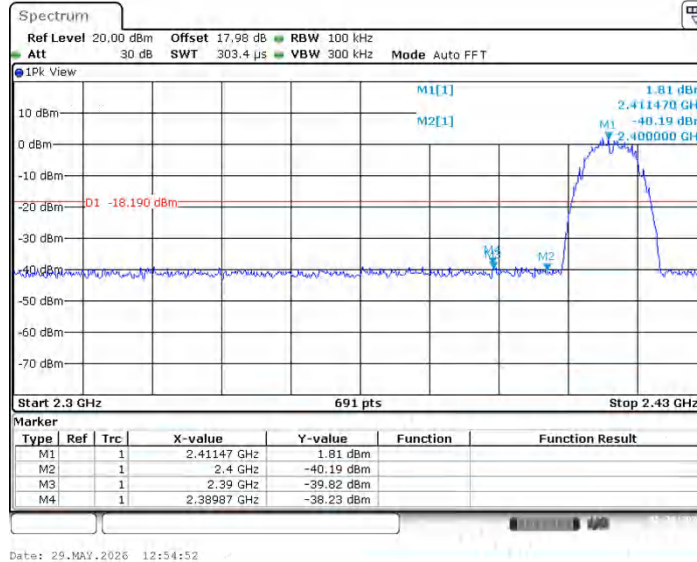
Appendix B.4: Test Results of Band Edge Measurements

Test Result

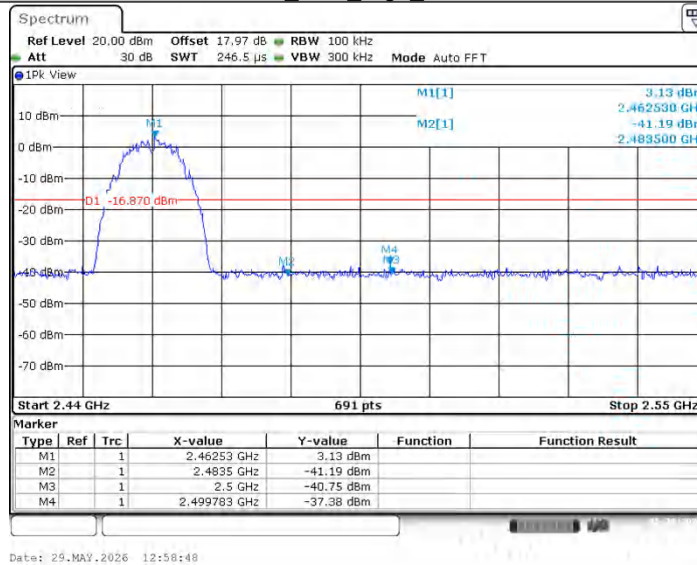
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	1.81	-38.23	≤-18.19	PASS
		High	2462	3.13	-37.38	≤-16.87	PASS
11G	Ant1	Low	2412	-3.70	-38.86	≤-23.7	PASS
		High	2462	-2.24	-37.46	≤-22.24	PASS
11N20SISO	Ant1	Low	2412	-3.13	-37.96	≤-23.13	PASS
		High	2462	-1.88	-38.09	≤-21.88	PASS
11N40SISO	Ant1	Low	2422	-6.78	-38.87	≤-26.78	PASS
		High	2452	-6.73	-37.52	≤-26.73	PASS
11AX20SISO	Ant1	Low	2412	4.09	-32.6	≤-15.91	PASS
		High	2462	4.31	-37.37	≤-15.69	PASS

Test Graphs

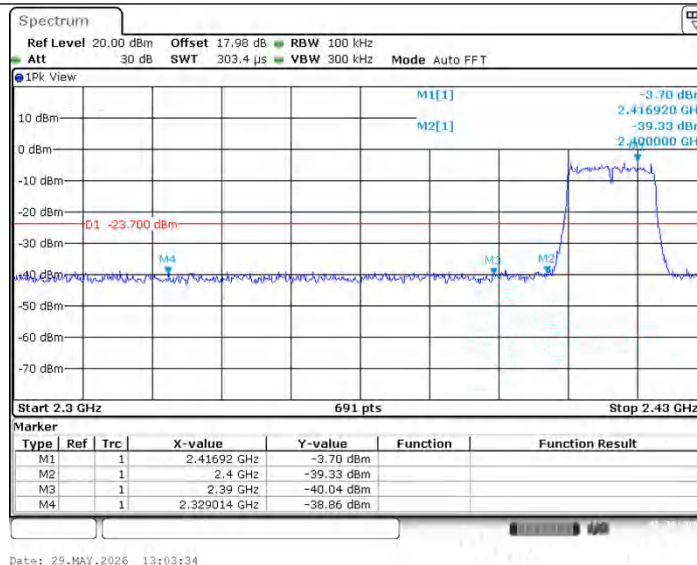
11B_Ant1_Low_2412



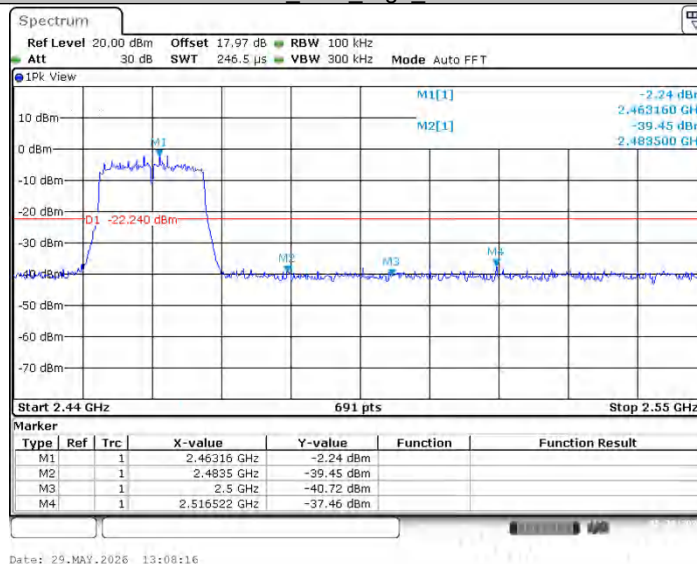
11B_Ant1_High_2462



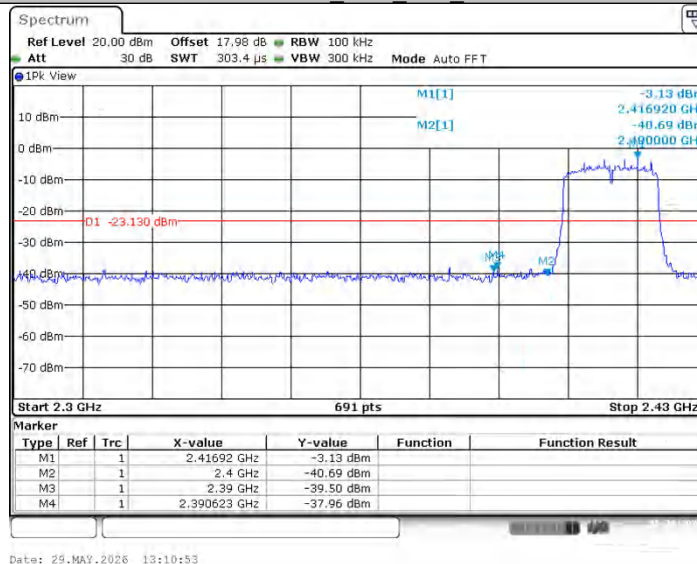
11G_Ant1_Low_2412



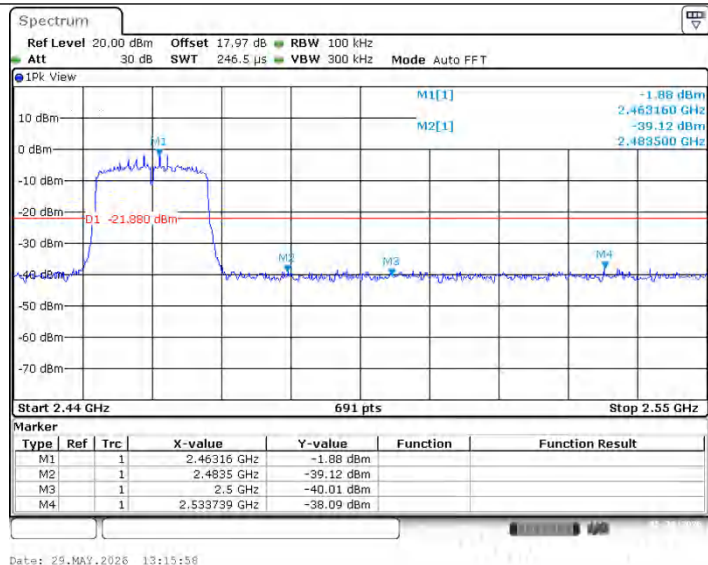
11G Ant1 High 2462



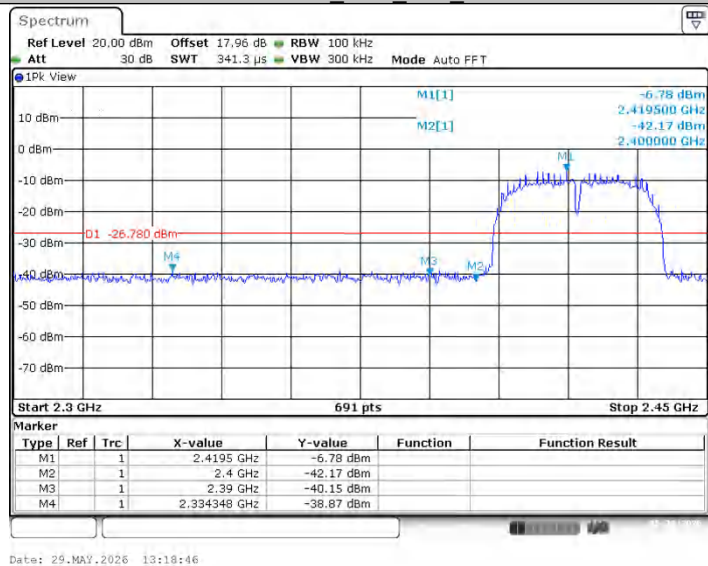
11N20SISO Ant1 Low 2412



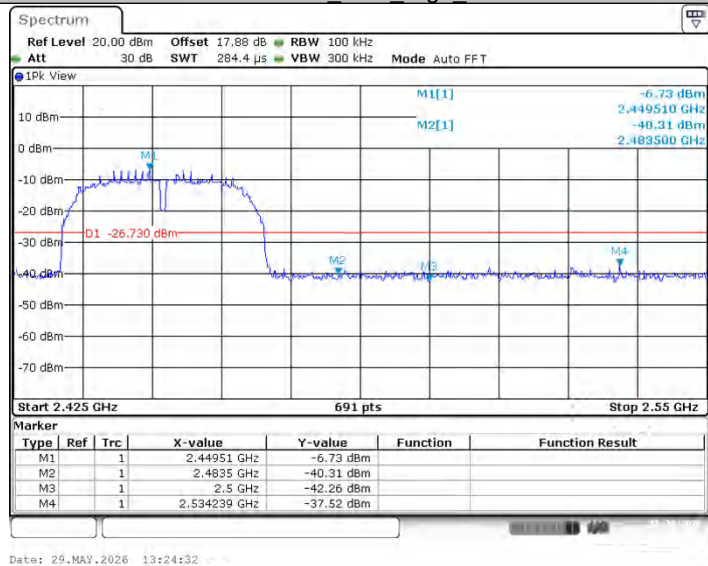
11N20SISO Ant1 High 2462



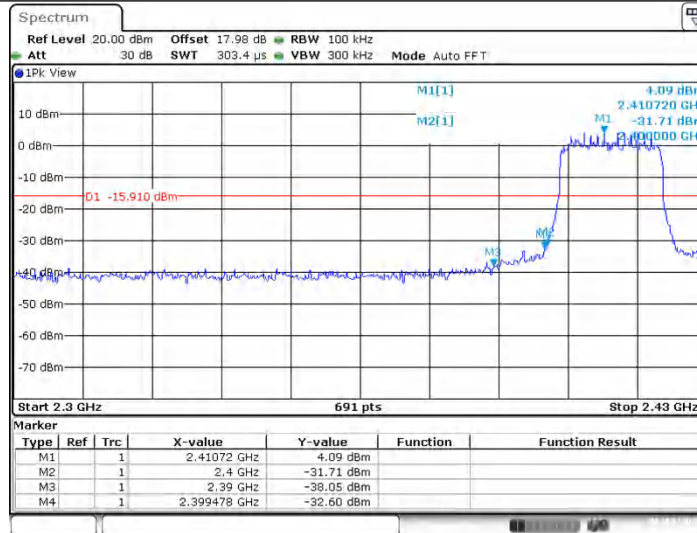
11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452

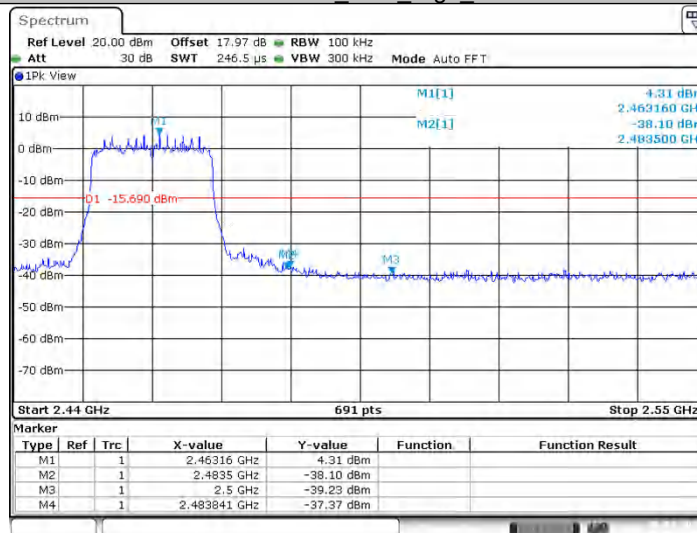


11AX20SISO_Ant1_Low 2412



Date: 1.JUN.2026 13:32:58

11AX20SISO_Ant1_High 2462



Date: 1.JUN.2026 13:38:36

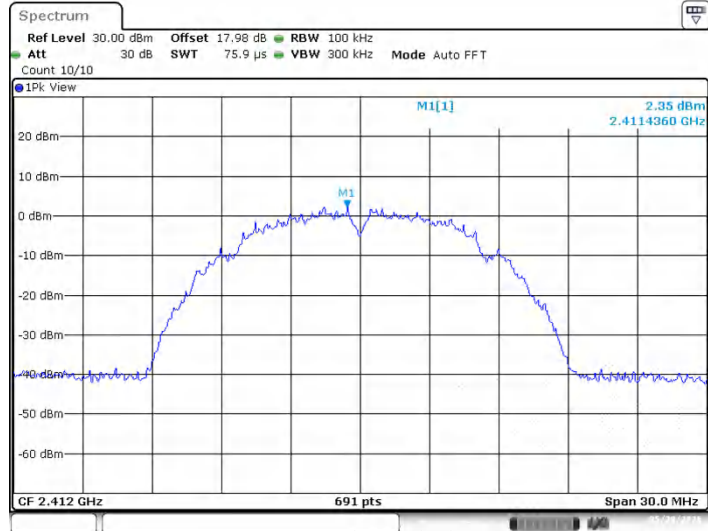
Appendix B.5: Test Results of Conducted Spurious Emissions

Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-48.15	≤-17.65	PASS
			1000~26500	2.35	-42.9	≤-17.65	PASS
		2437	Reference	2.65	2.65	---	PASS
			30~1000	2.65	-48.71	≤-17.35	PASS
			1000~26500	2.65	-42.79	≤-17.35	PASS
		2462	Reference	3.49	3.49	---	PASS
			30~1000	3.49	-48.45	≤-16.51	PASS
			1000~26500	3.49	-42.51	≤-16.51	PASS
11G	Ant1	2412	Reference	-2.83	-2.83	---	PASS
			30~1000	-2.83	-48.16	≤-22.83	PASS
			1000~26500	-2.83	-42.55	≤-22.83	PASS
		2437	Reference	-2.67	-2.67	---	PASS
			30~1000	-2.67	-48.62	≤-22.67	PASS
			1000~26500	-2.67	-42.92	≤-22.67	PASS
		2462	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-48.59	≤-22.13	PASS
			1000~26500	-2.13	-42.19	≤-22.13	PASS
11N20SISO	Ant1	2412	Reference	-3.36	-3.36	---	PASS
			30~1000	-3.36	-48.74	≤-23.36	PASS
			1000~26500	-3.36	-43.23	≤-23.36	PASS
		2437	Reference	-4.48	-4.48	---	PASS
			30~1000	-4.48	-48.52	≤-24.48	PASS
			1000~26500	-4.48	-42.44	≤-24.48	PASS
		2462	Reference	-1.97	-1.97	---	PASS
			30~1000	-1.97	-48.74	≤-21.97	PASS
			1000~26500	-1.97	-42.58	≤-21.97	PASS
11N40SISO	Ant1	2422	Reference	-6.66	-6.66	---	PASS
			30~1000	-6.66	-48.67	≤-26.66	PASS
			1000~26500	-6.66	-42.08	≤-26.66	PASS
		2437	Reference	-6.62	-6.62	---	PASS
			30~1000	-6.62	-48.72	≤-26.62	PASS
			1000~26500	-6.62	-42.65	≤-26.62	PASS
		2452	Reference	-6.53	-6.53	---	PASS
			30~1000	-6.53	-48.6	≤-26.53	PASS
			1000~26500	-6.53	-43.28	≤-26.53	PASS
11AX20SISO	Ant1	2412	Reference	4.14	4.14	---	PASS
			30~1000	4.14	-48.42	≤-15.86	PASS
			1000~26500	4.14	-42.26	≤-15.86	PASS
		2437	Reference	4.34	4.34	---	PASS
			30~1000	4.34	-48.97	≤-15.66	PASS
			1000~26500	4.34	-42.82	≤-15.66	PASS
		2462	Reference	4.23	4.23	---	PASS
			30~1000	4.23	-48.5	≤-15.77	PASS
			1000~26500	4.23	-42.62	≤-15.77	PASS

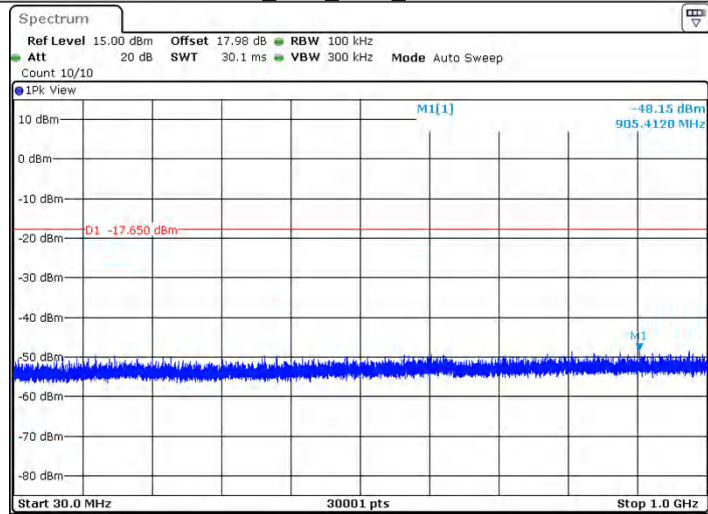
Test Graphs

11B_Ant1_2412_0~Reference



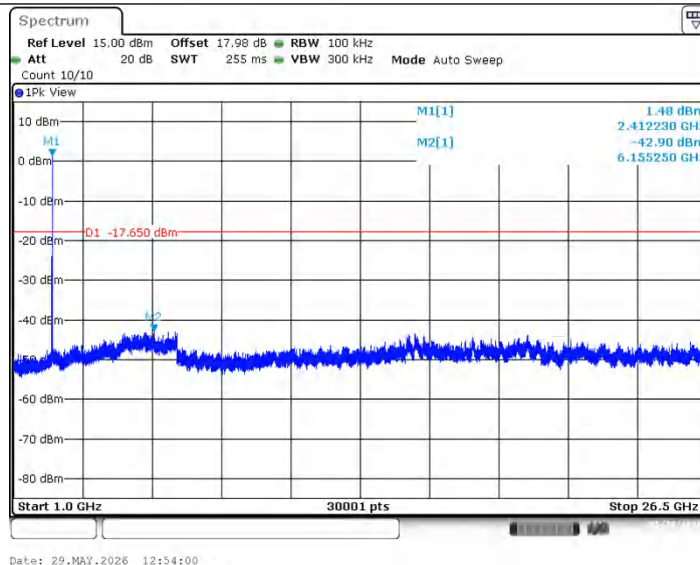
Date: 29.MAY.2026 12:53:08

11B_Ant1_2412_30~1000

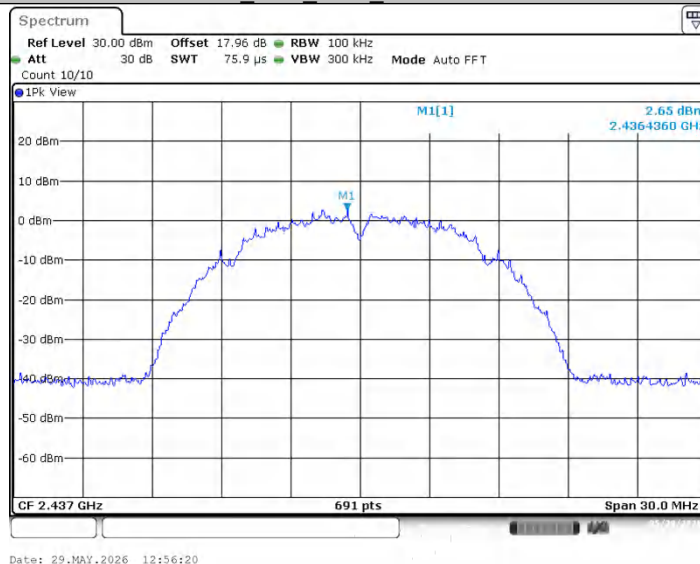


Date: 29.MAY.2026 12:53:22

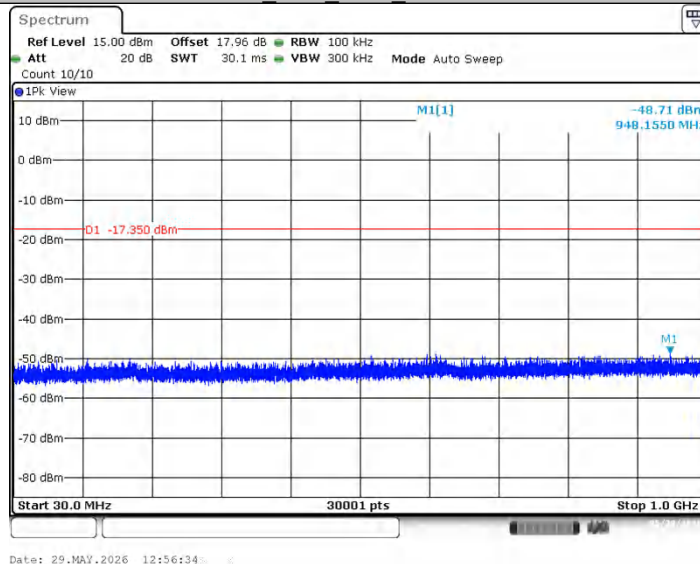
11B_Ant1_2412_1000~26500



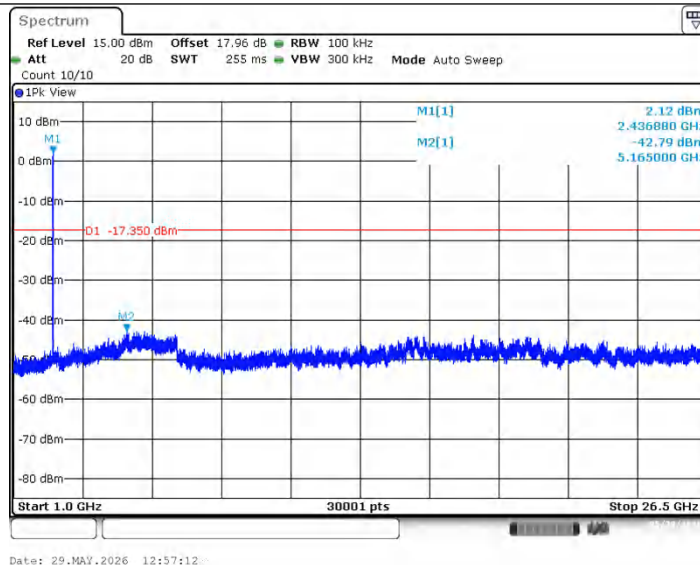
11B_Ant1_2437_0~Reference



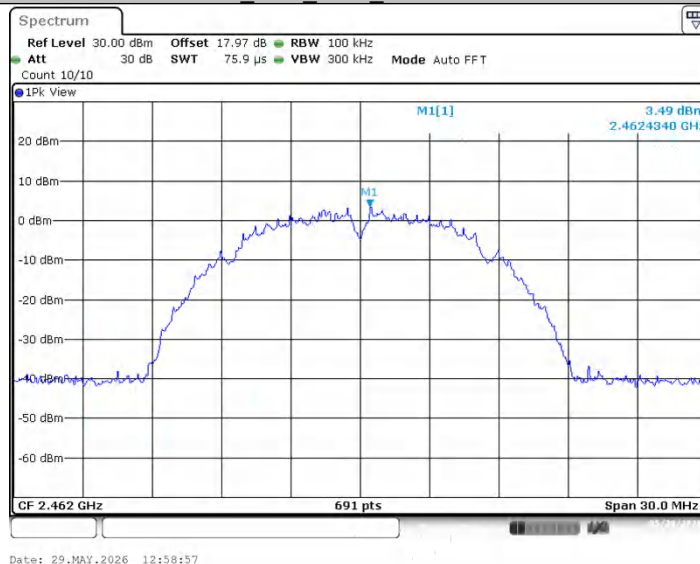
11B_Ant1_2437_30~1000



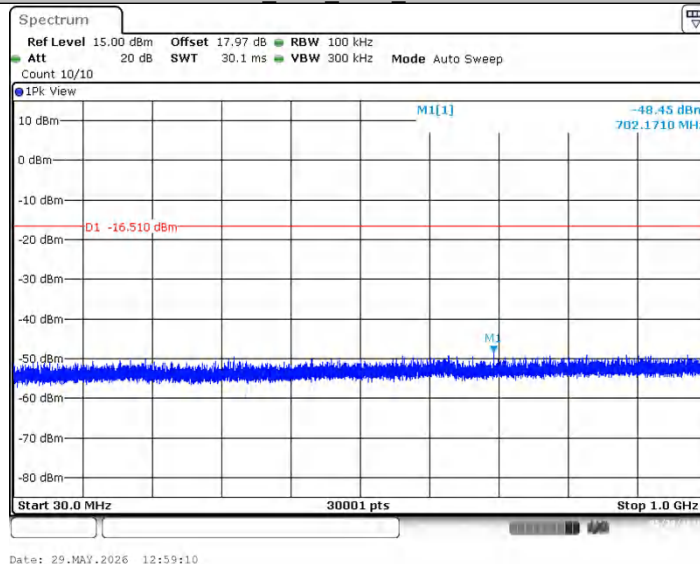
11B_Ant1_2437_1000~26500



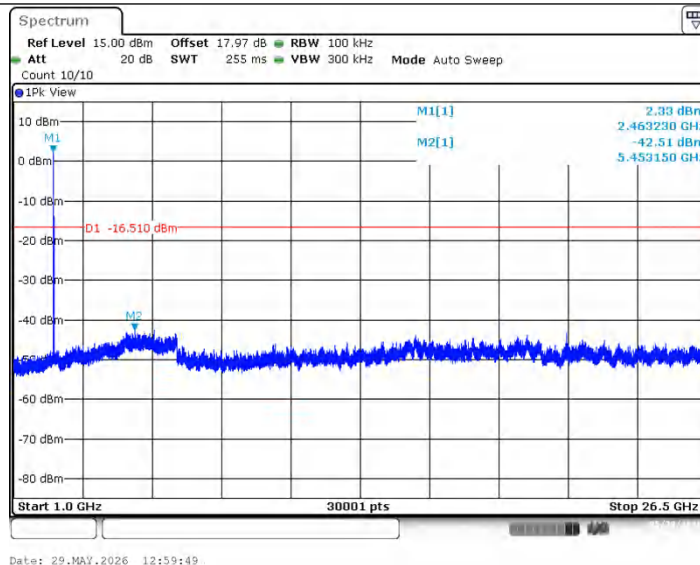
11B_Ant1_2462_0~Reference



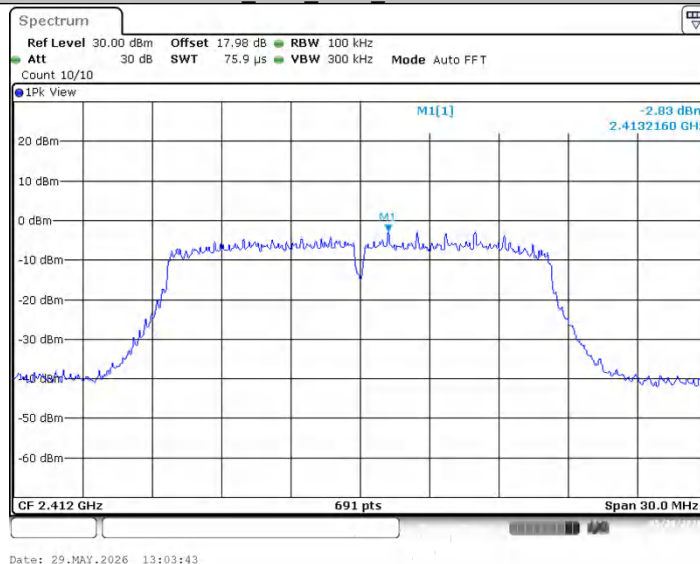
11B_Ant1_2462_30~1000



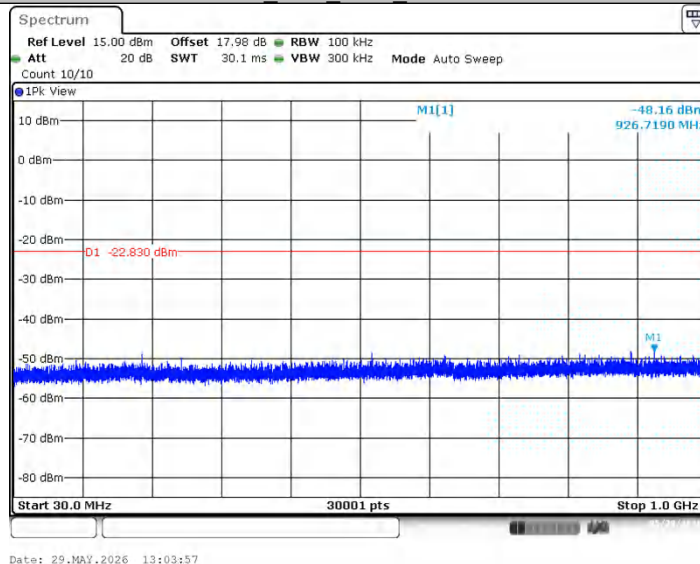
11B_Ant1_2462_1000~26500



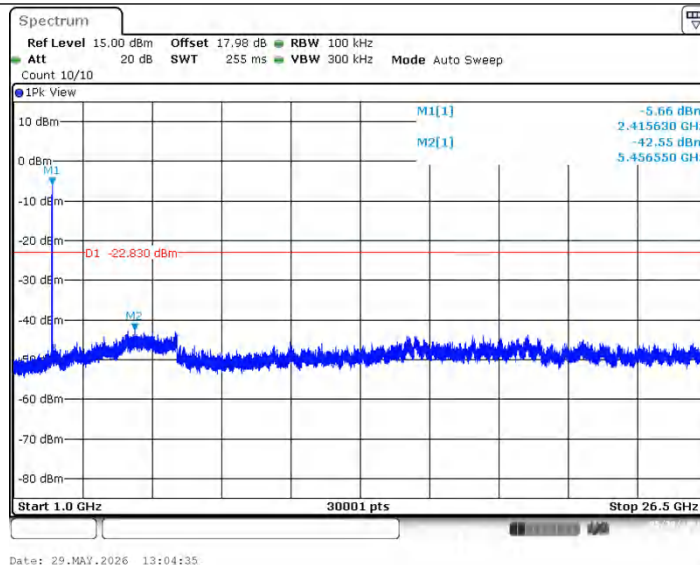
11G_Ant1_2412_0~Reference



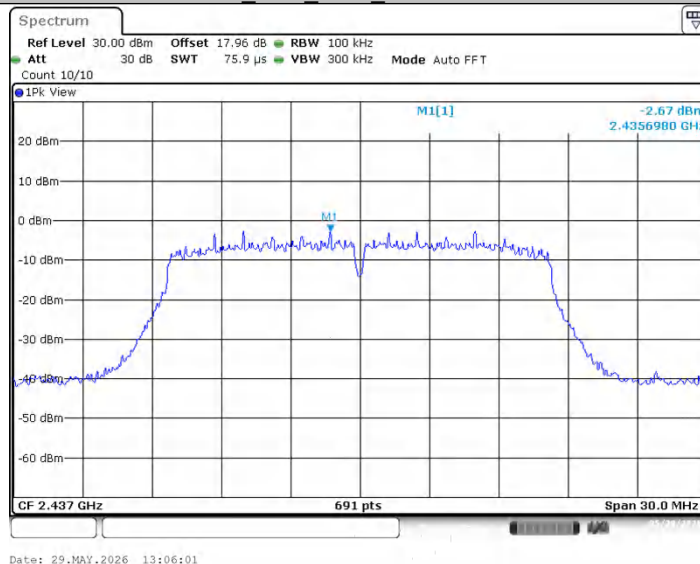
11G_Ant1_2412_30~1000



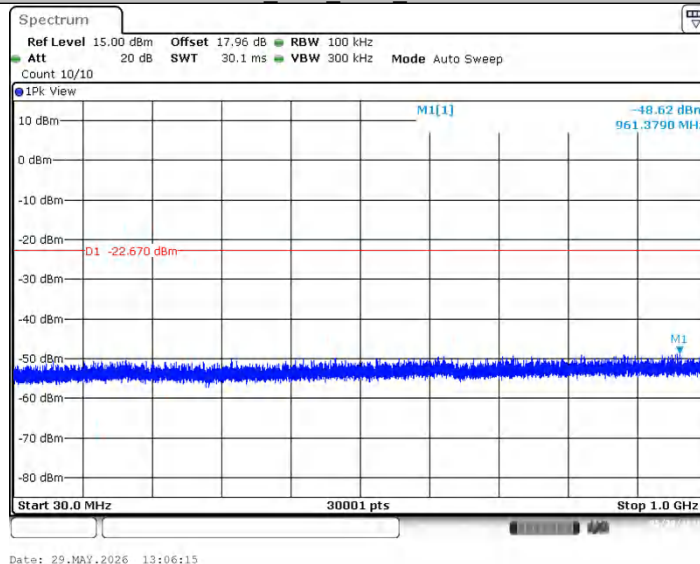
11G_Ant1_2412_1000~26500



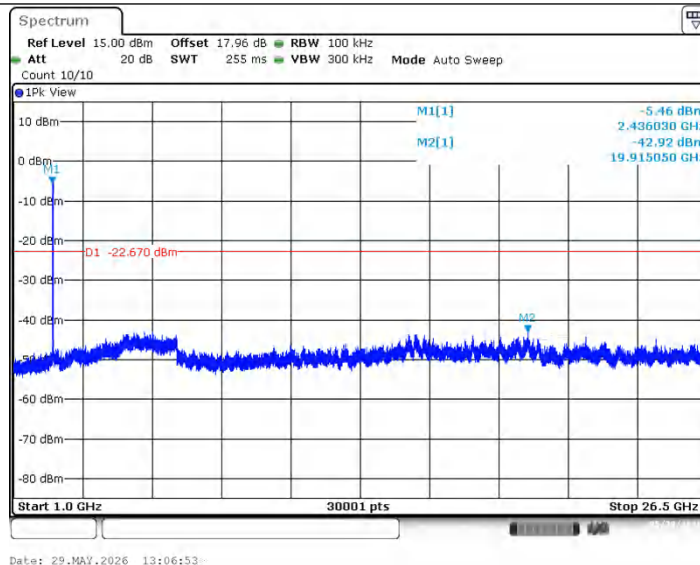
11G_Ant1_2437_0~Reference



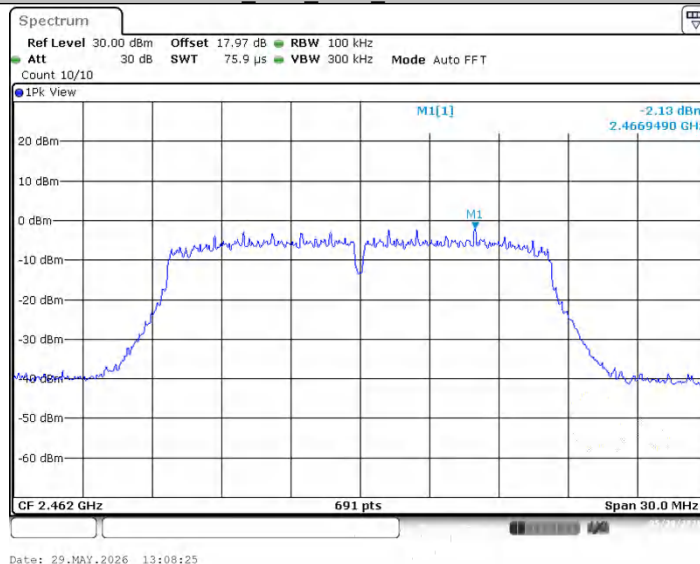
11G_Ant1_2437_30~1000



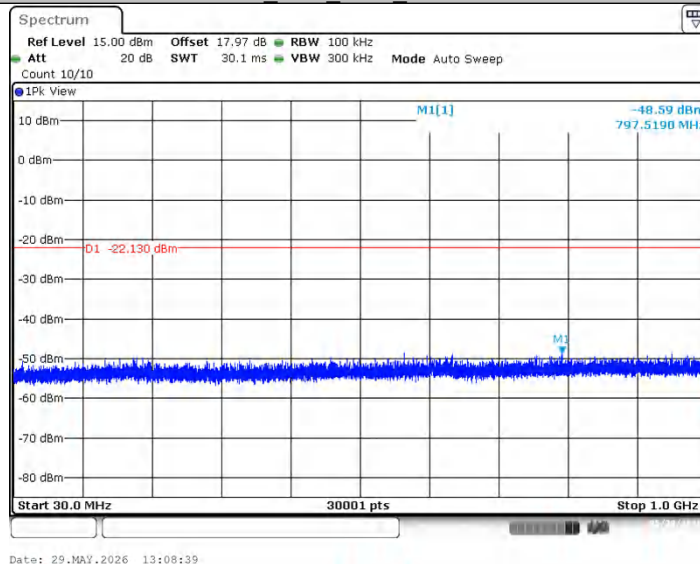
11G_Ant1_2437_1000~26500



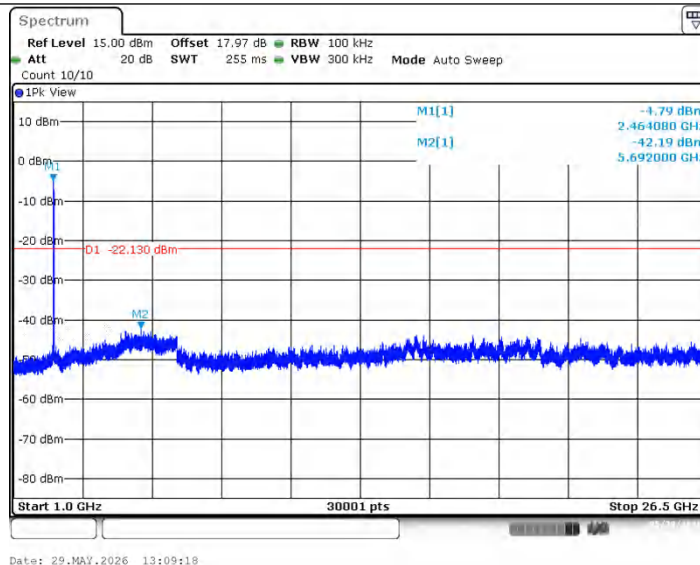
11G_Ant1_2462_0~Reference



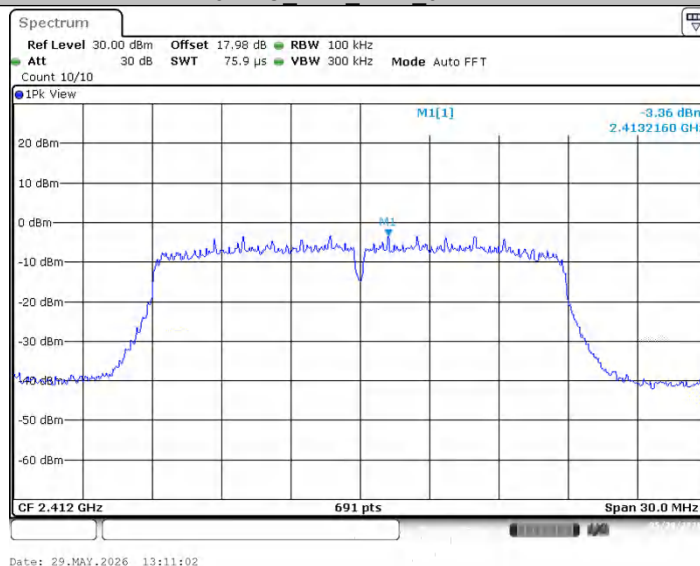
11G_Ant1_2462_30~1000



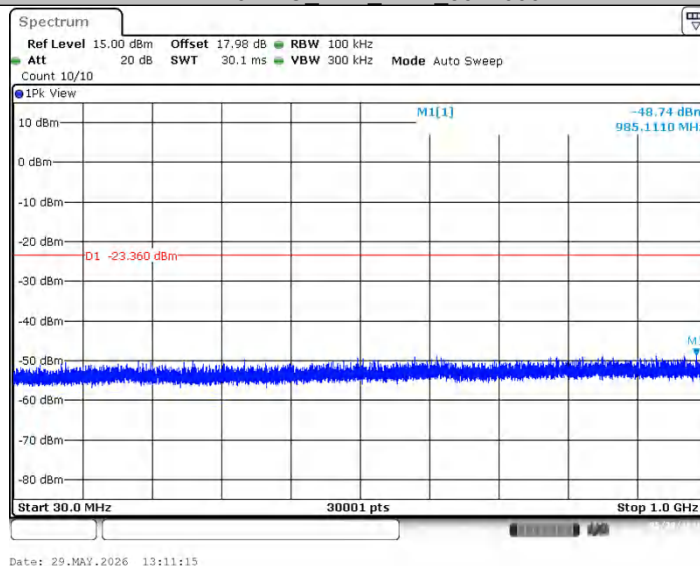
11G_Ant1_2462_1000~26500



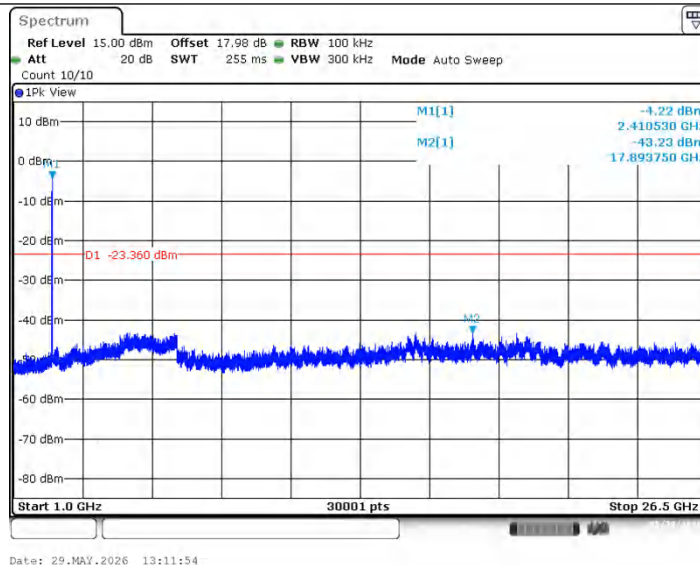
11N20SISO_Ant1_2412_0~Reference



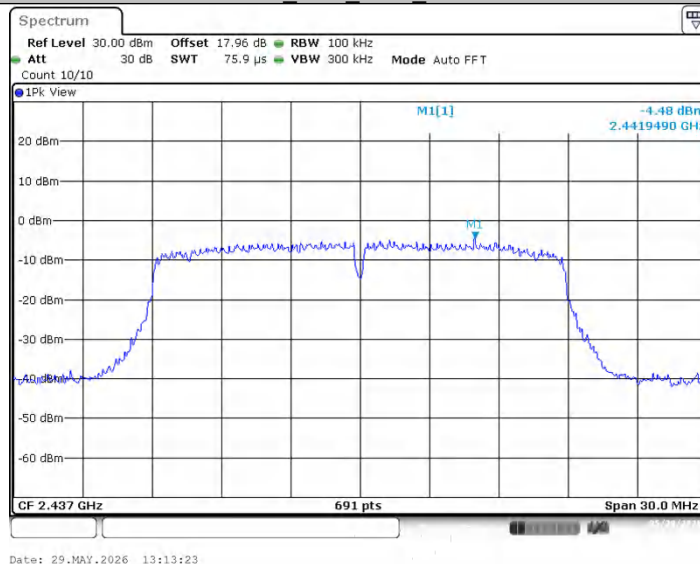
11N20SISO_Ant1_2412_30~1000



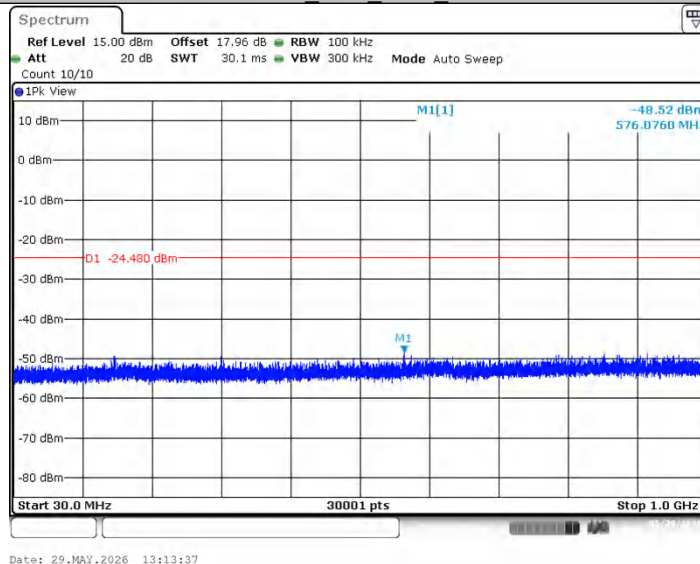
11N20SISO_Ant1_2412_1000~26500



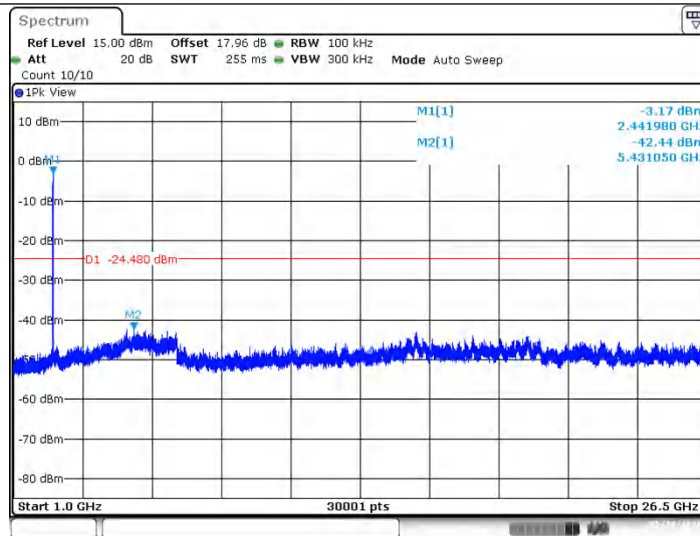
11N20SISO_Ant1_2437_0~Reference



11N20SISO_Ant1_2437_30~1000

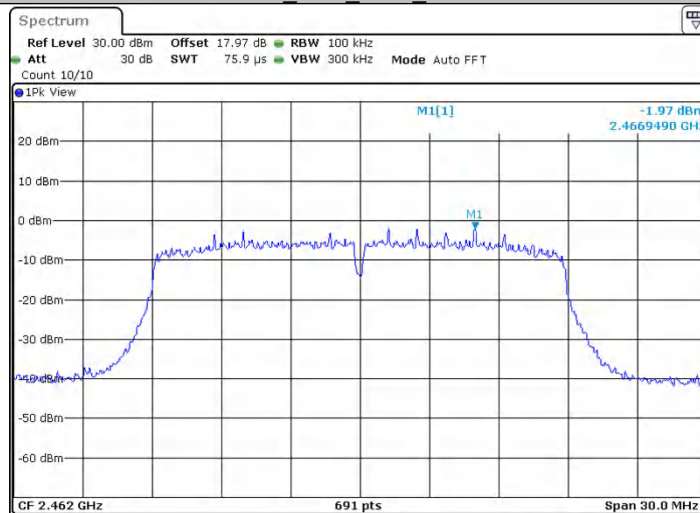


11N20SISO_Ant1_2437_1000~26500



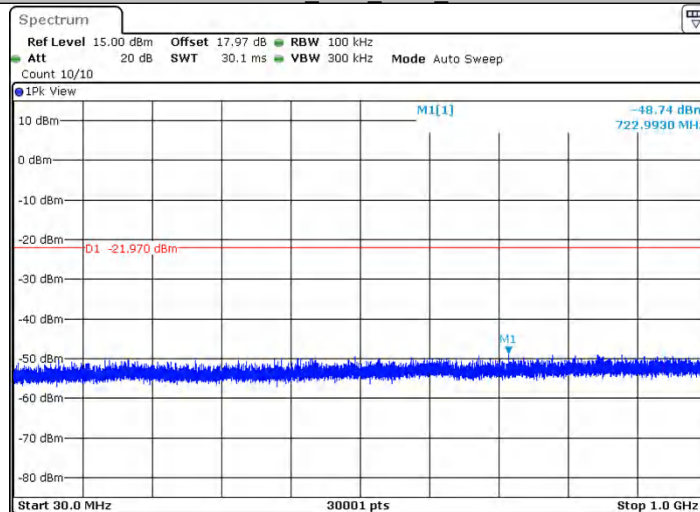
Date: 29.MAY.2026 13:14:15

11N20SISO_Ant1_2462_0~Reference



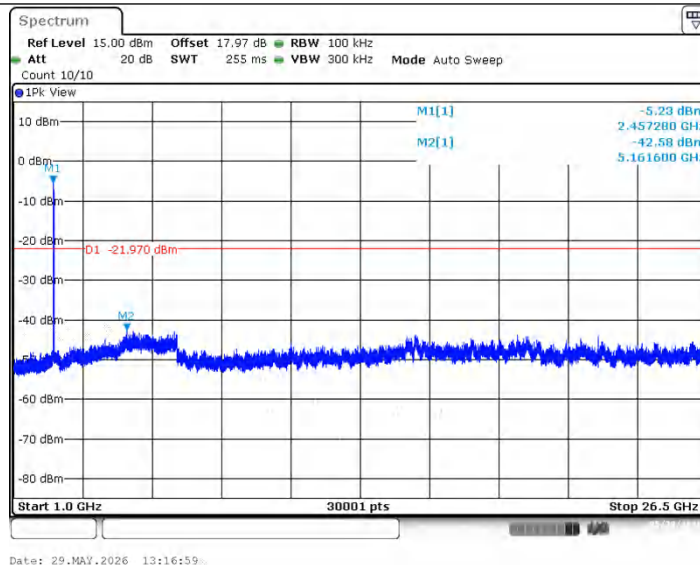
Date: 29.MAY.2026 13:16:07

11N20SISO_Ant1_2462_30~1000

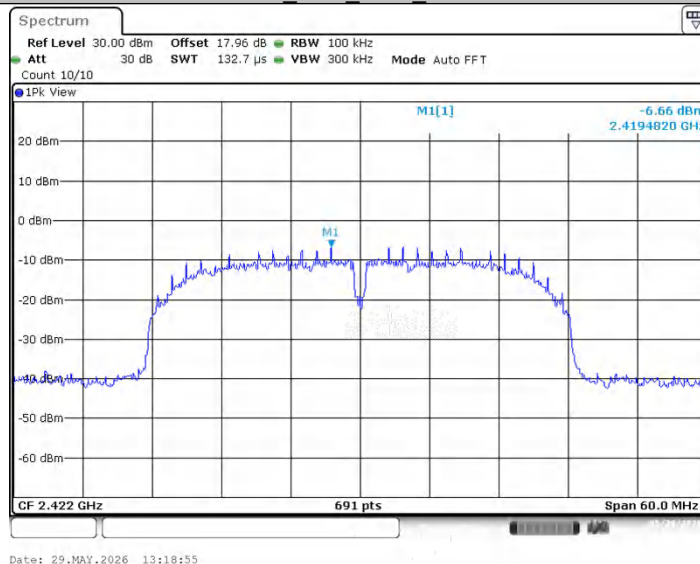


Date: 29.MAY.2026 13:16:21

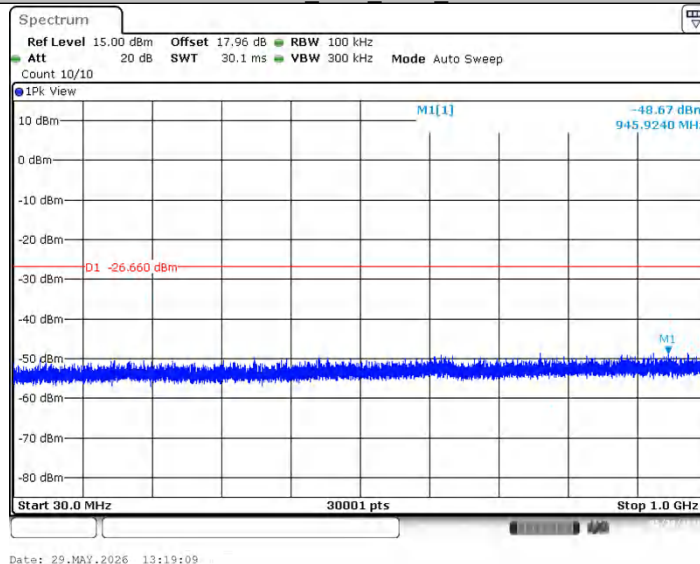
11N20SISO_Ant1_2462_1000~26500



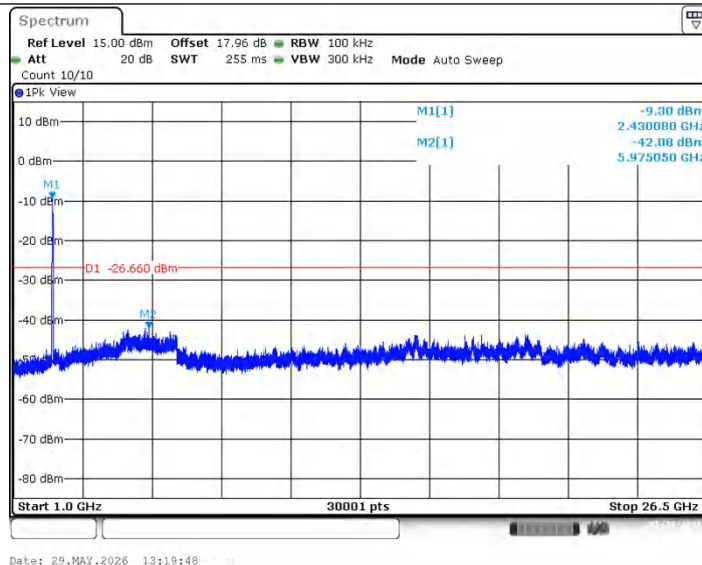
11N40SISO_Ant1_2422_0~Reference



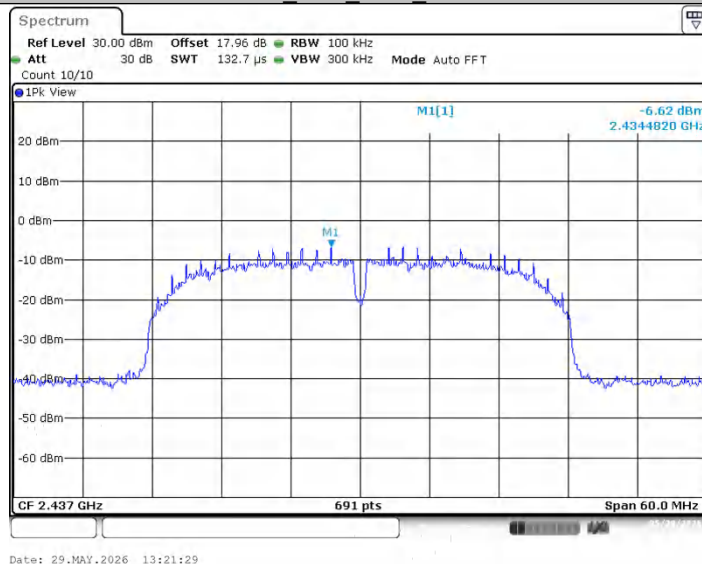
11N40SISO_Ant1_2422_30~1000



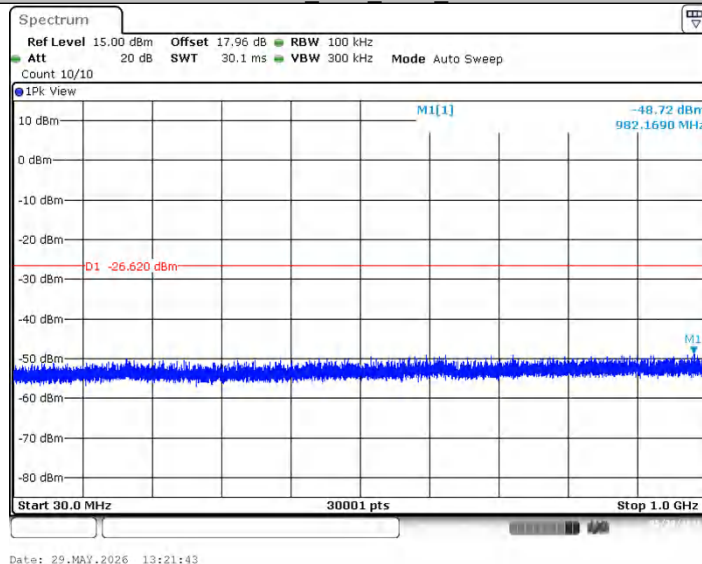
11N40SISO_Ant1_2422_1000~26500



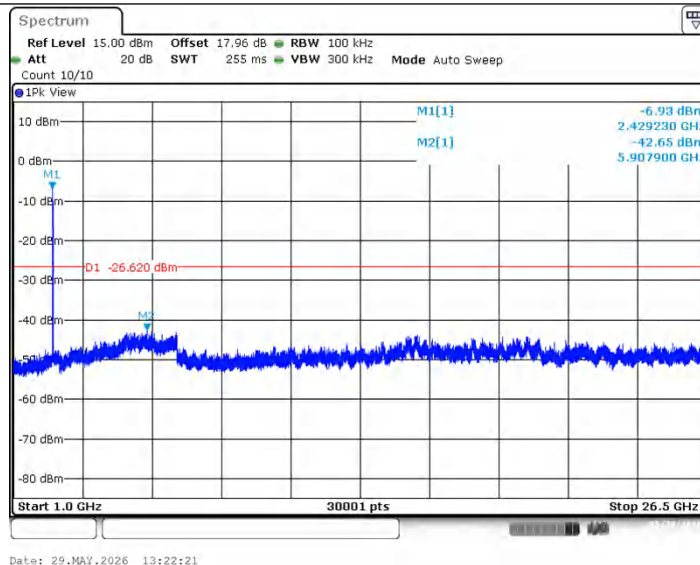
11N40SISO_Ant1_2437_0~Reference



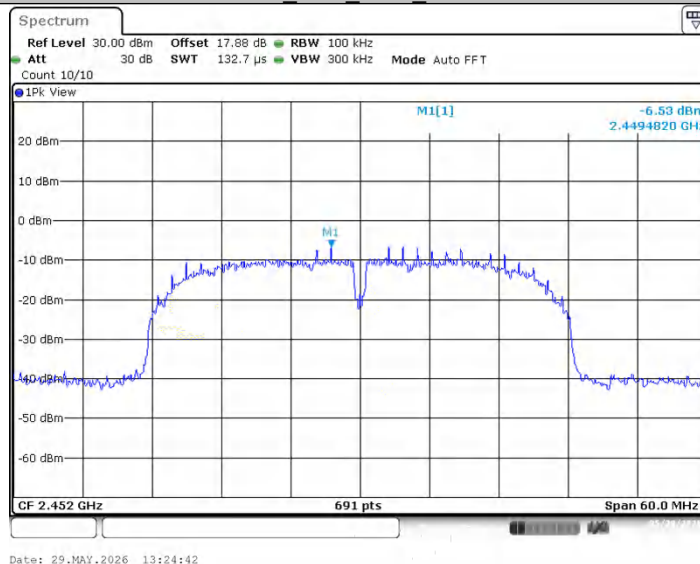
11N40SISO_Ant1_2437_30~1000



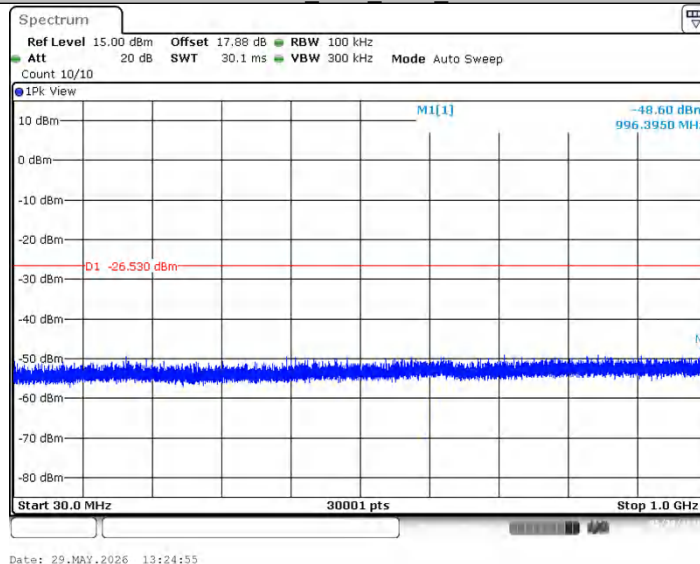
11N40SISO_Ant1_2437_1000~26500



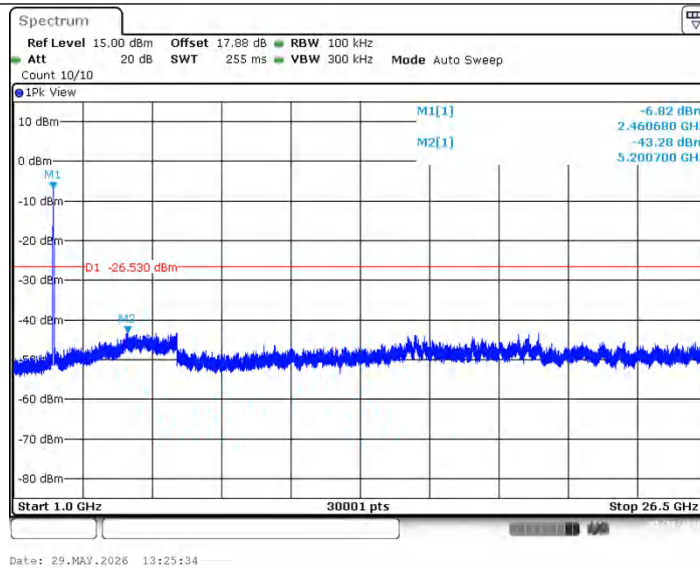
11N40SISO_Ant1_2452_0~Reference



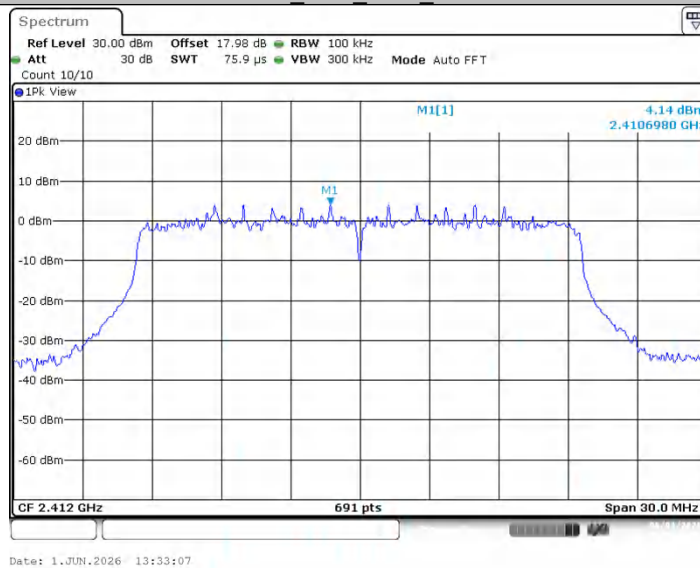
11N40SISO_Ant1_2452_30~1000



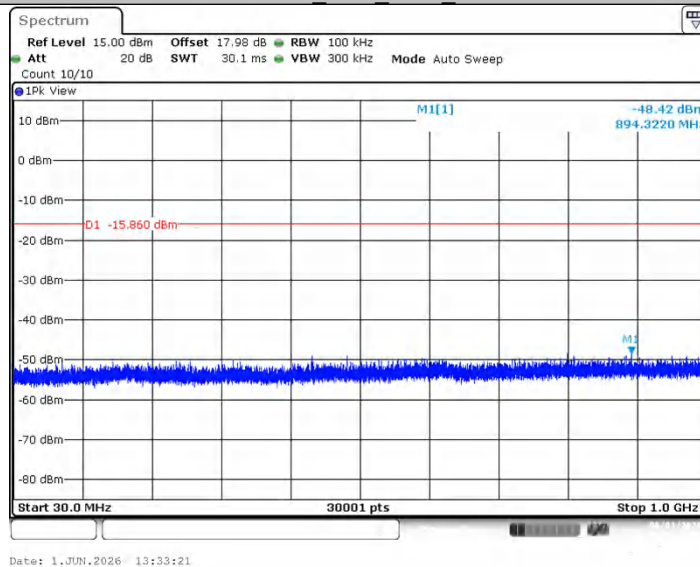
11N40SISO_Ant1_2452_1000~26500



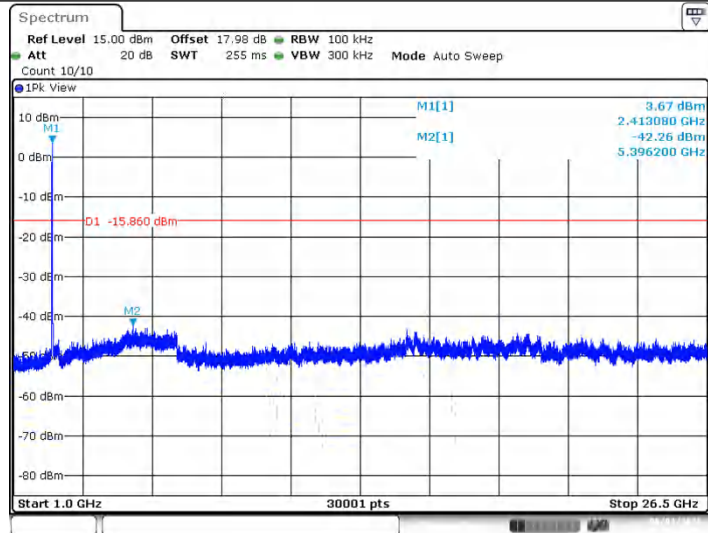
11AX20SISO_Ant1_2412_0~Reference



11AX20SISO_Ant1_2412_30~1000

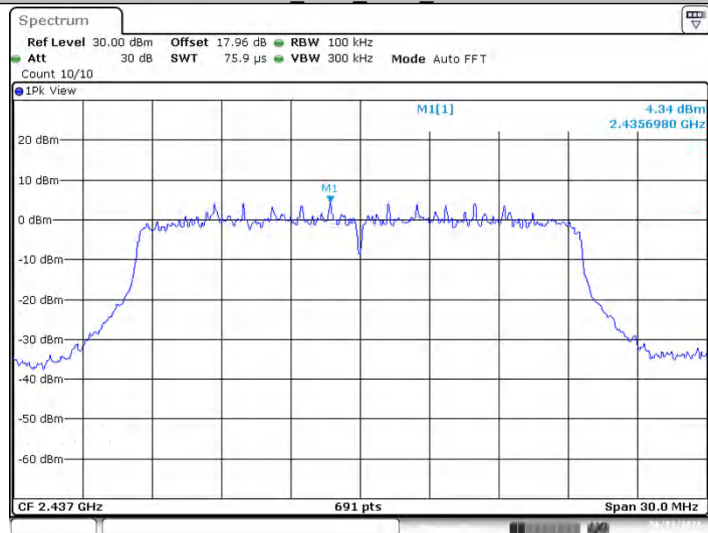


11AX20SISO_Ant1_2412_1000~26500



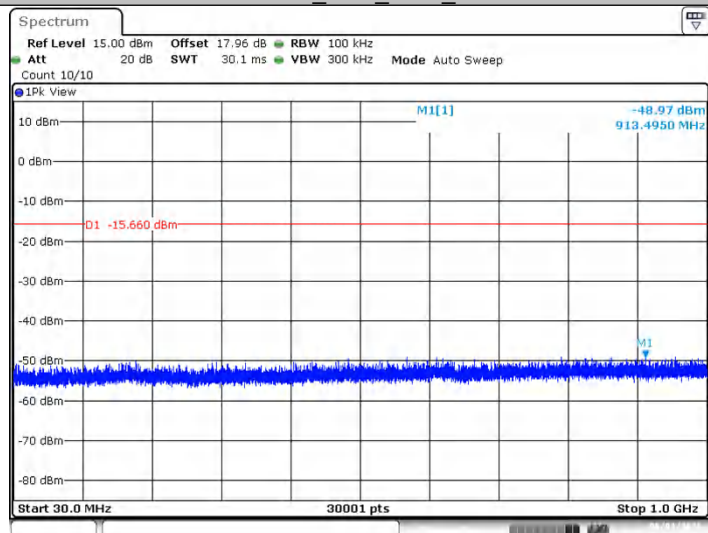
Date: 1.JUN.2026 13:34:00

11AX20SISO_Ant1_2437_0~Reference



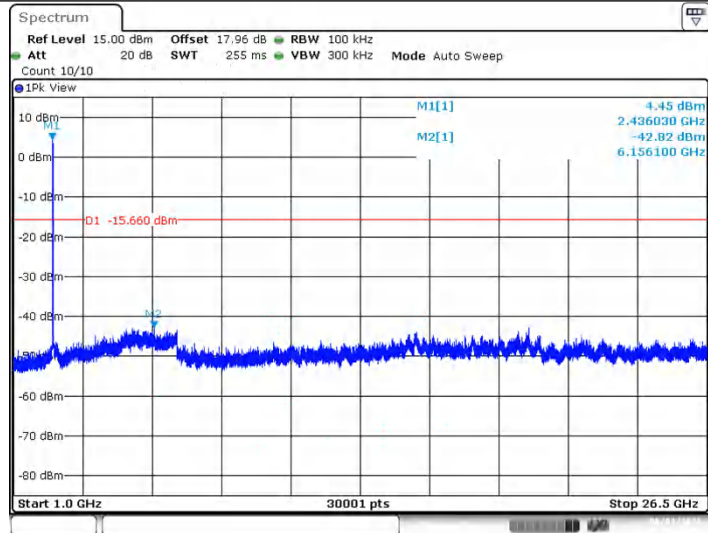
Date: 1.JUN.2026 13:35:50

11AX20SISO_Ant1_2437_30~1000



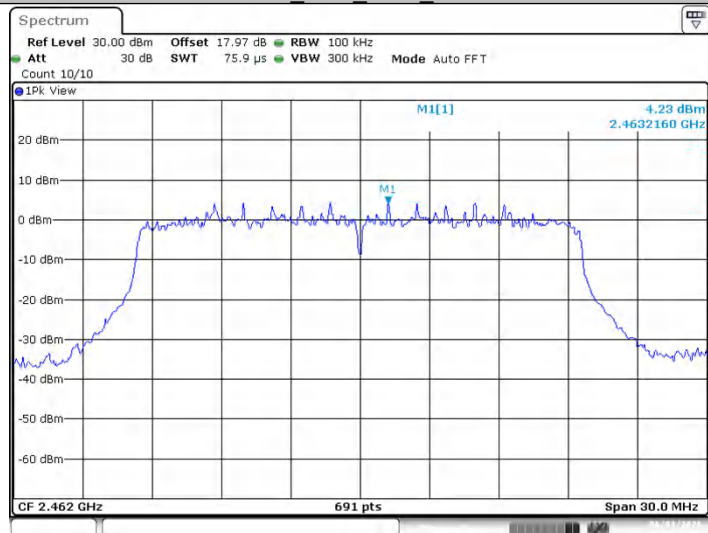
Date: 1.JUN.2026 13:36:04

11AX20SISO_Ant1_2437_1000~26500



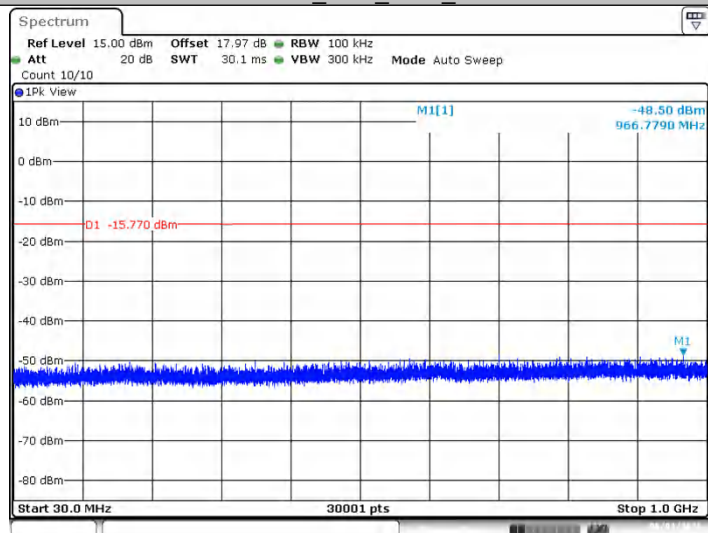
Date: 1.JUN.2026 13:36:42

11AX20SISO_Ant1_2462_0~Reference



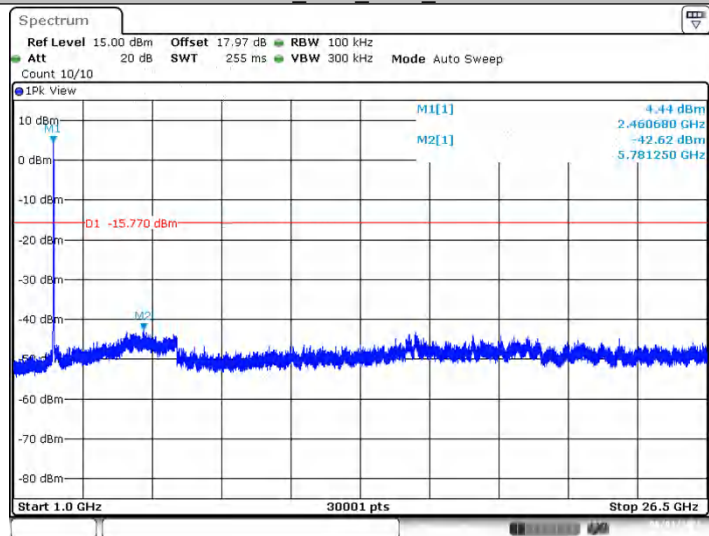
Date: 1.JUN.2026 13:38:45

11AX20SISO_Ant1_2462_30~1000



Date: 1.JUN.2026 13:38:58

11AX20SISO_Ant1_2462_1000~26500



Date: 1.JUN.2026 13:39:37

Appendix B.6: Test Results of Radiated Spurious Emissions

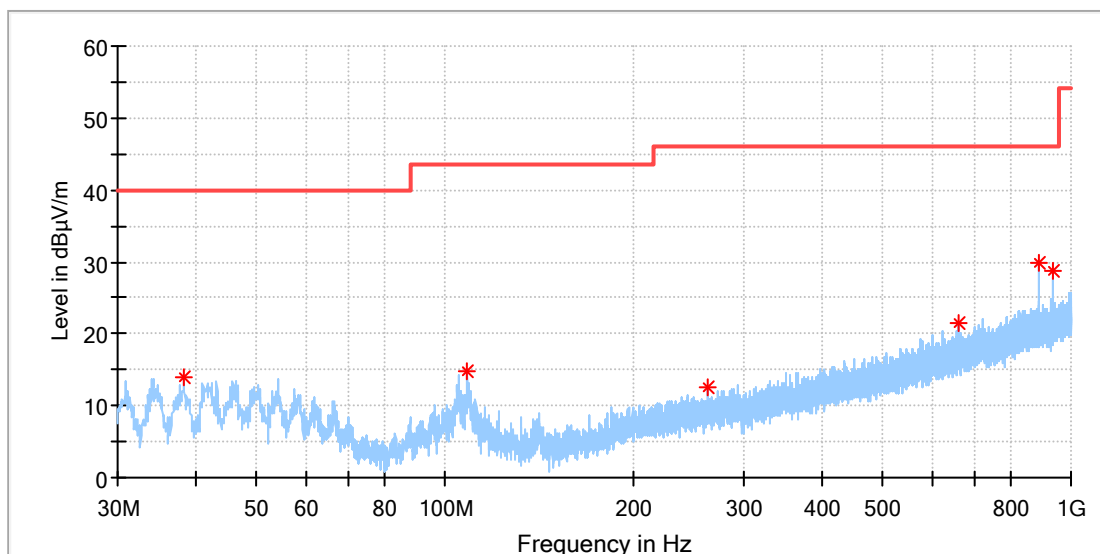
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

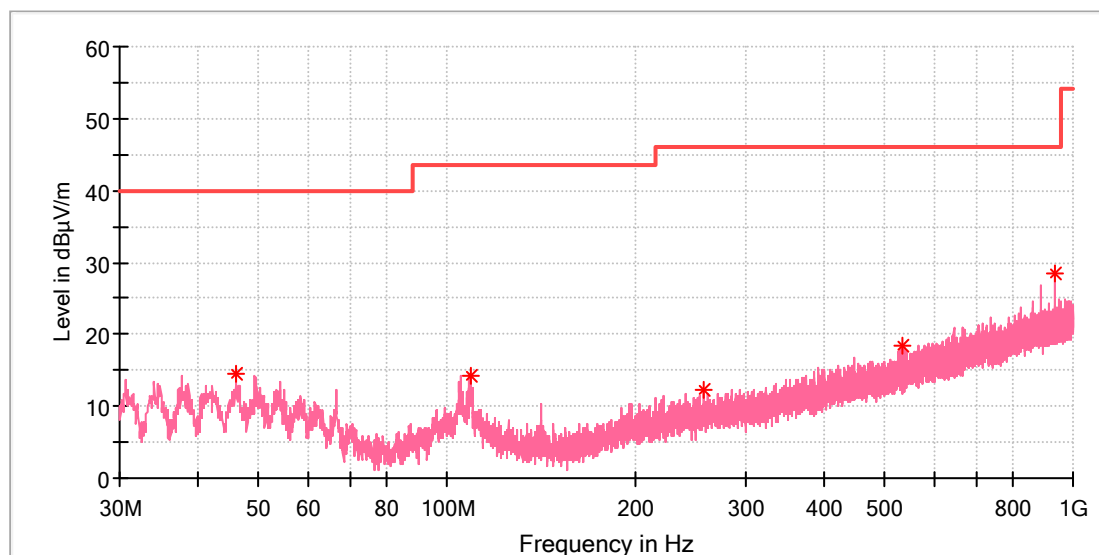
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
38.298889	13.90	40.00	26.10	100.0	H	355.0	-20.7
108.731667	14.74	43.50	28.76	100.0	H	230.0	-19.1
262.530556	12.61	46.00	33.39	100.0	H	192.0	-17.1
663.248333	21.49	46.00	24.51	100.0	H	81.0	-8.6
890.982778	29.93	46.00	16.07	100.0	H	22.0	-4.9
938.405000	28.87	46.00	17.13	100.0	H	31.0	-4.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Smart Ceiling LED Light
Model: CE02N
Test Mode: WIFI 2.4G_11b_Ch6
Order No/Sample No: 27232029/A004264923-002
Test Voltage: 120V/60Hz
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.951111	14.45	40.00	25.55	100.0	V	290.0	-18.8
108.839444	14.33	43.50	29.17	100.0	V	125.0	-19.1
257.357222	12.19	46.00	33.81	100.0	V	156.0	-17.2
532.136667	18.55	46.00	27.45	100.0	V	330.0	-11.2
938.405000	28.42	46.00	17.58	100.0	V	0.0	-4.4

Final Result

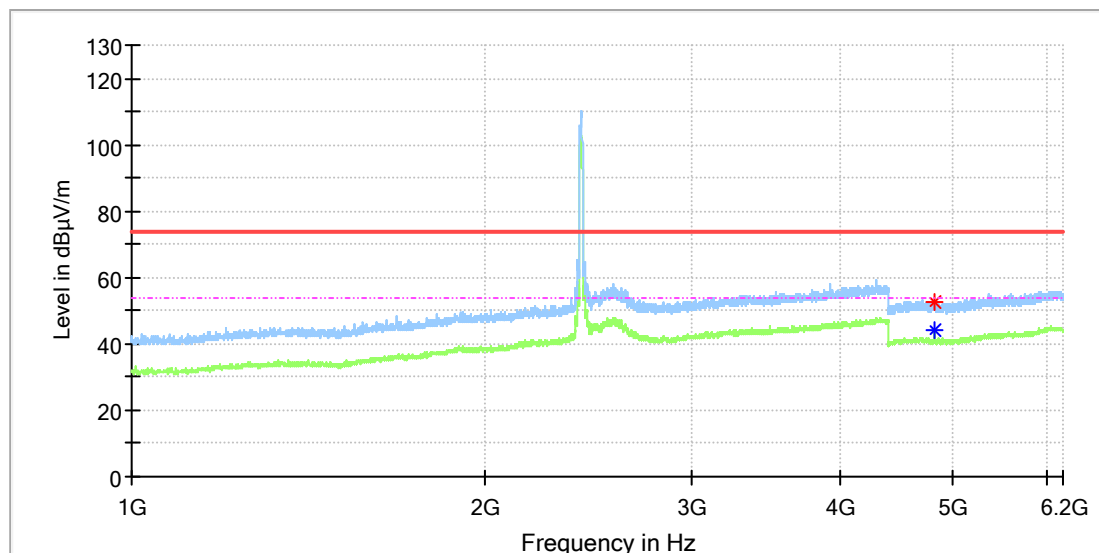
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

Note: The highest waveform in the figure is Wi-Fi Fundamental.

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

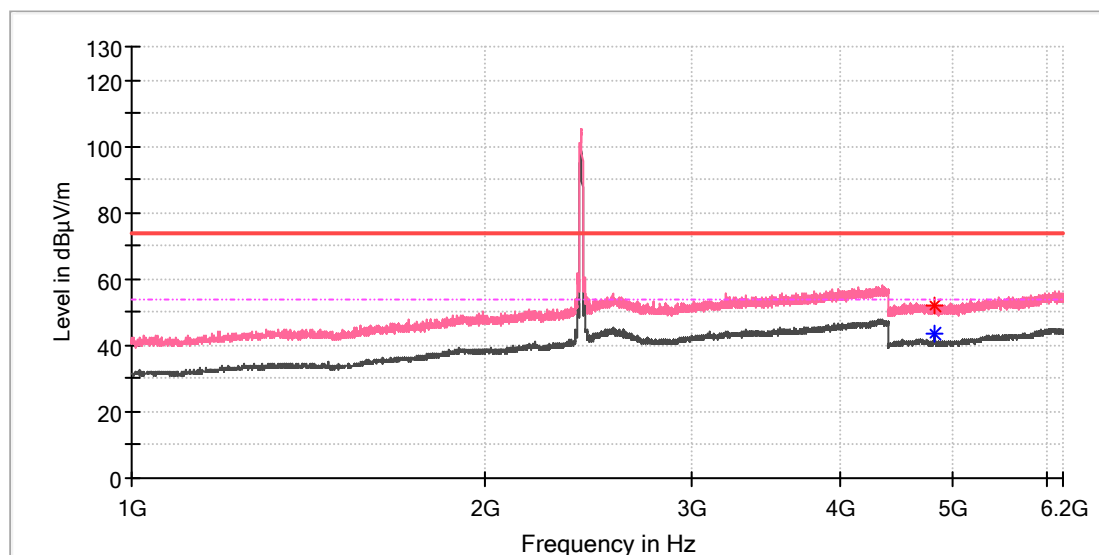
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4823.500000	52.71	---	74.00	21.29	150.0	H	348.0	13.3
4823.500000	---	44.34	54.00	9.66	150.0	H	348.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

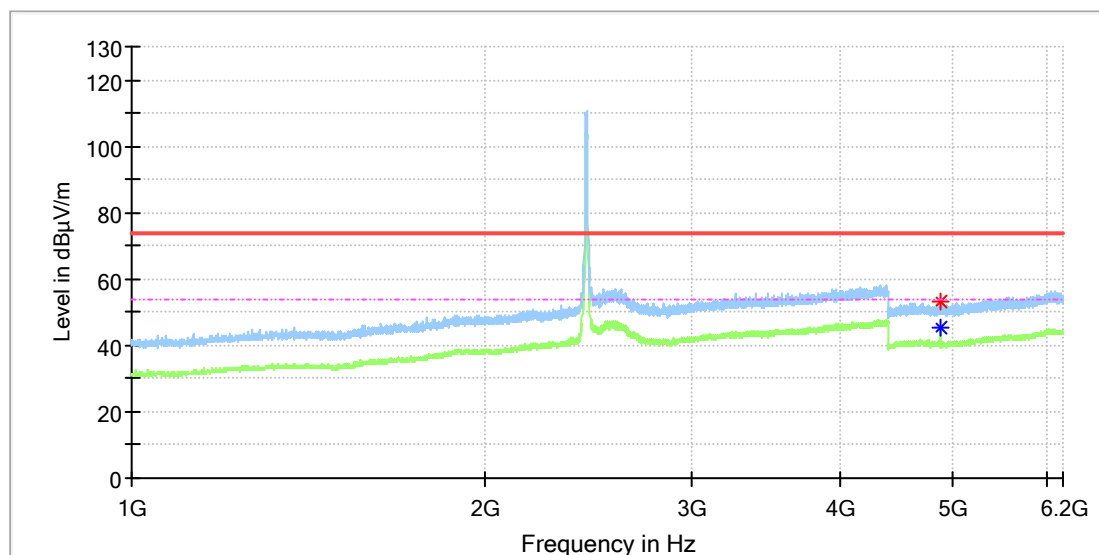
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4824.000000	52.21	---	74.00	21.79	150.0	V	156.0	13.3
4824.000000	---	43.82	54.00	10.18	150.0	V	156.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

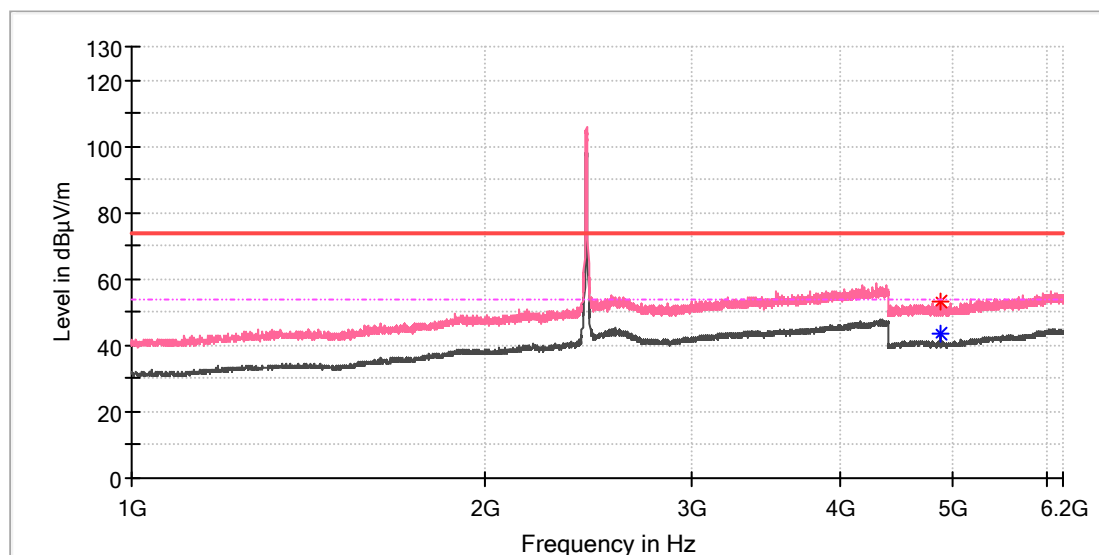
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	53.02	---	74.00	20.98	150.0	H	352.0	13.3
4874.000000	---	45.56	54.00	8.44	150.0	H	352.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

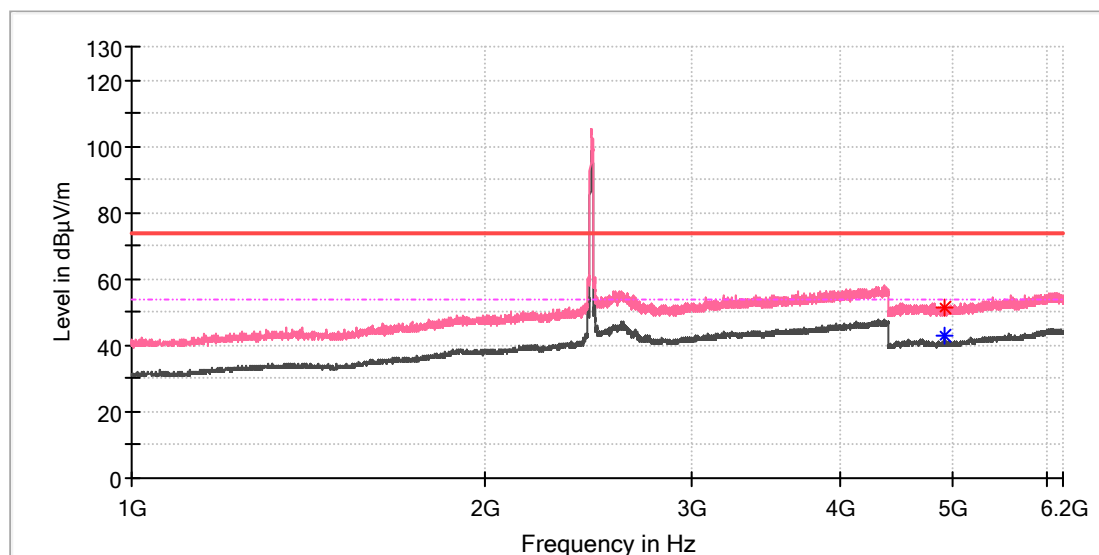
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4874.000000	53.42	---	74.00	20.58	150.0	V	202.0	13.3
4874.000000	---	43.63	54.00	10.37	150.0	V	202.0	13.3

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4923.500000	---	43.23	54.00	10.77	150.0	V	165.0	13.3
4924.000000	51.59	---	74.00	22.41	150.0	V	225.0	13.3

Final Result

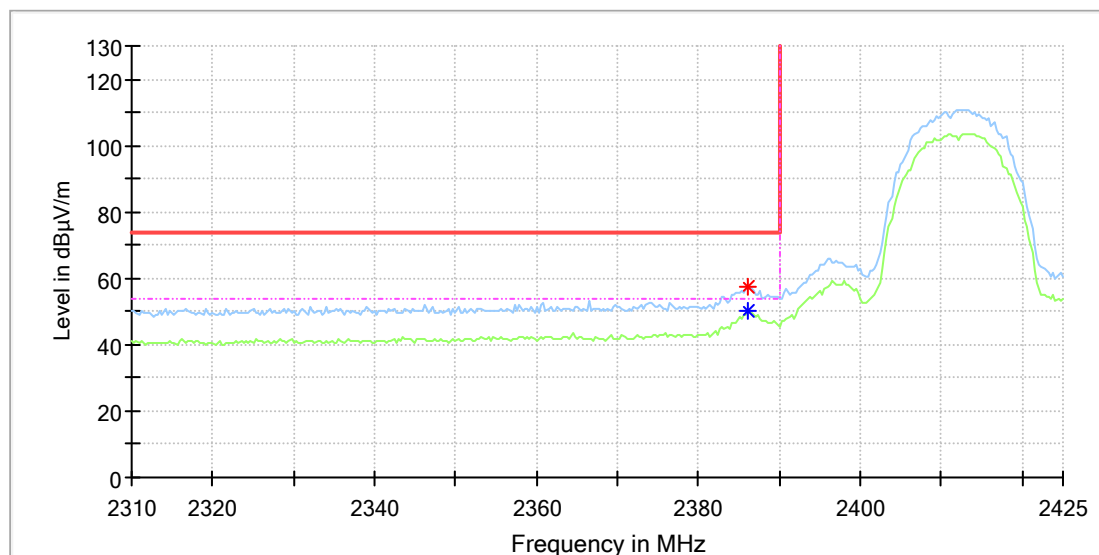
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B.7: Test Results of Radiated Emissions in Restricted Bands

Wi-Fi 802.11 b mode

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

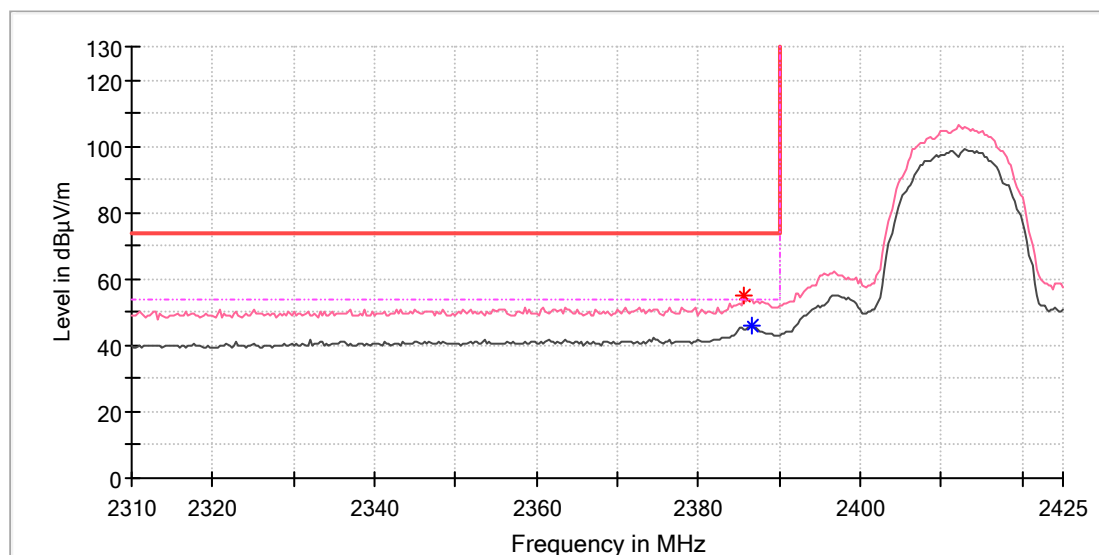
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2386.176471	57.25	---	74.00	16.75	150.0	H	297.0	8.5
2386.176471	---	50.15	54.00	3.85	150.0	H	297.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

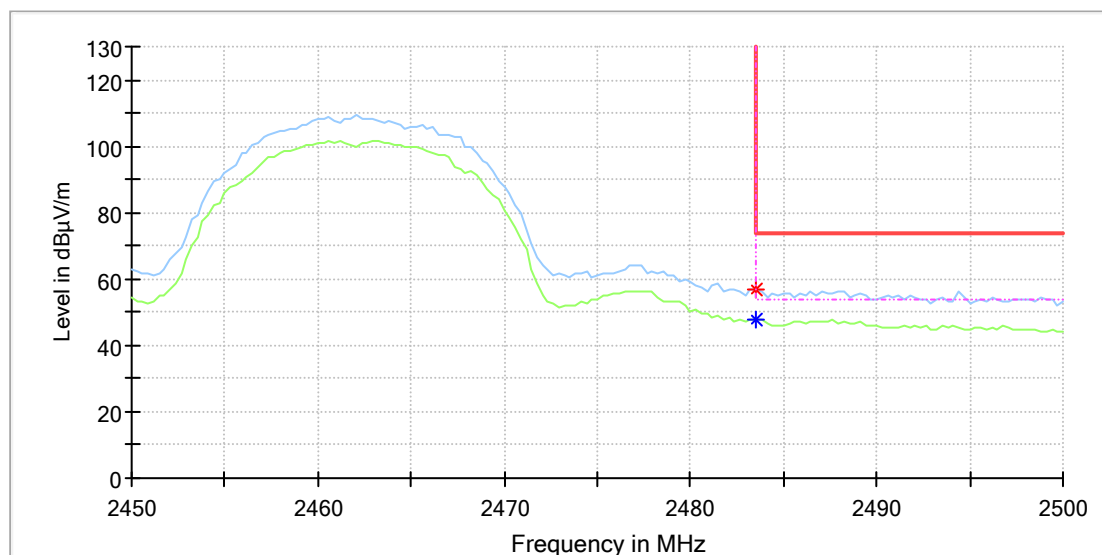
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2385.588235	54.98	---	74.00	19.02	150.0	V	359.0	8.5
2386.470588	---	45.87	54.00	8.13	150.0	V	0.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

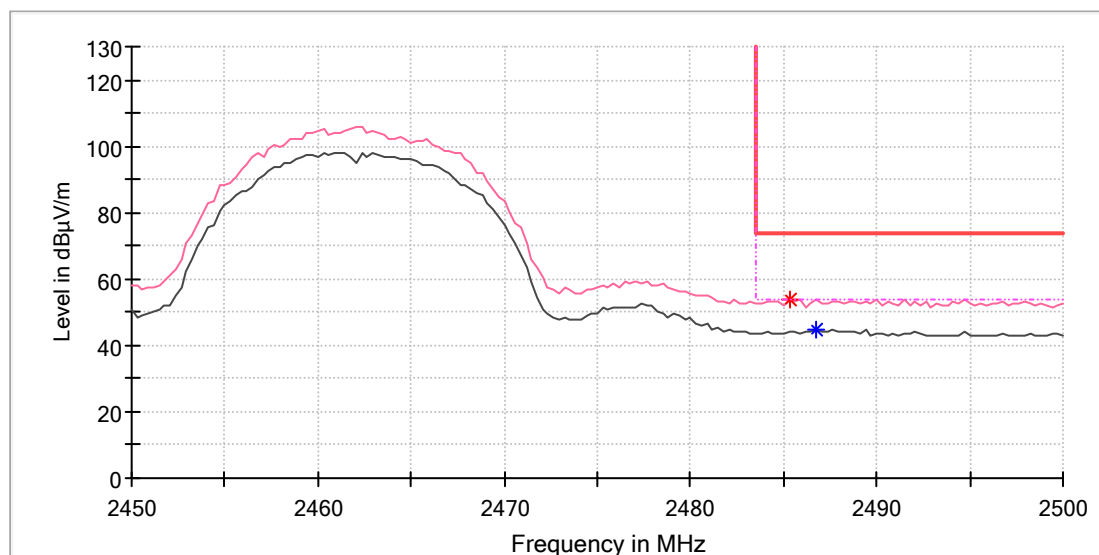
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	47.89	54.00	6.11	150.0	H	355.0	9.0
2483.529412	56.79	---	74.00	17.21	150.0	H	355.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11b_Ch11
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.294118	53.93	---	74.00	20.07	150.0	V	0.0	9.0
2486.764706	---	44.55	54.00	9.45	150.0	V	171.0	9.0

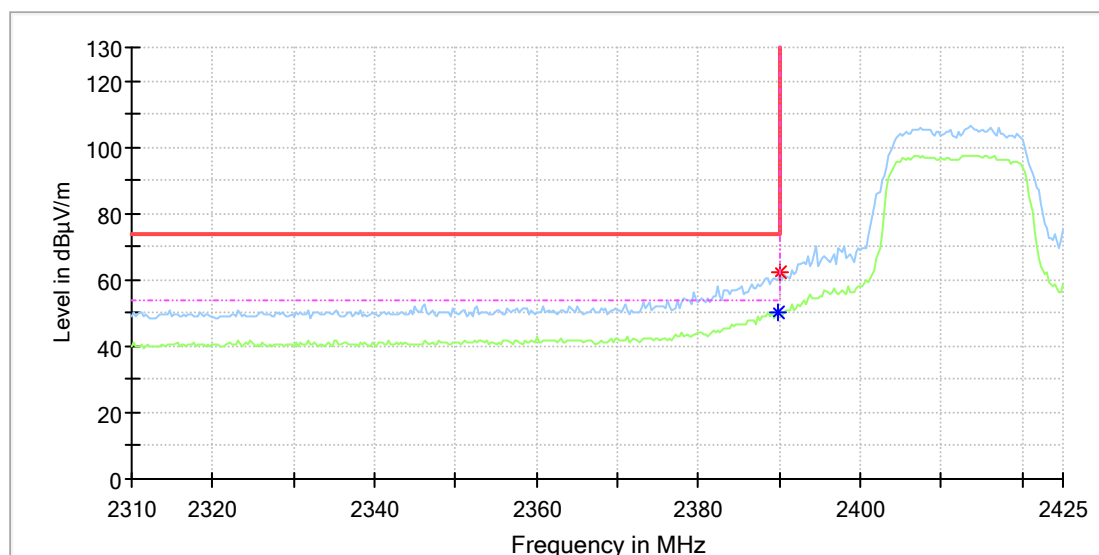
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Wi-Fi 802.11 g mode

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

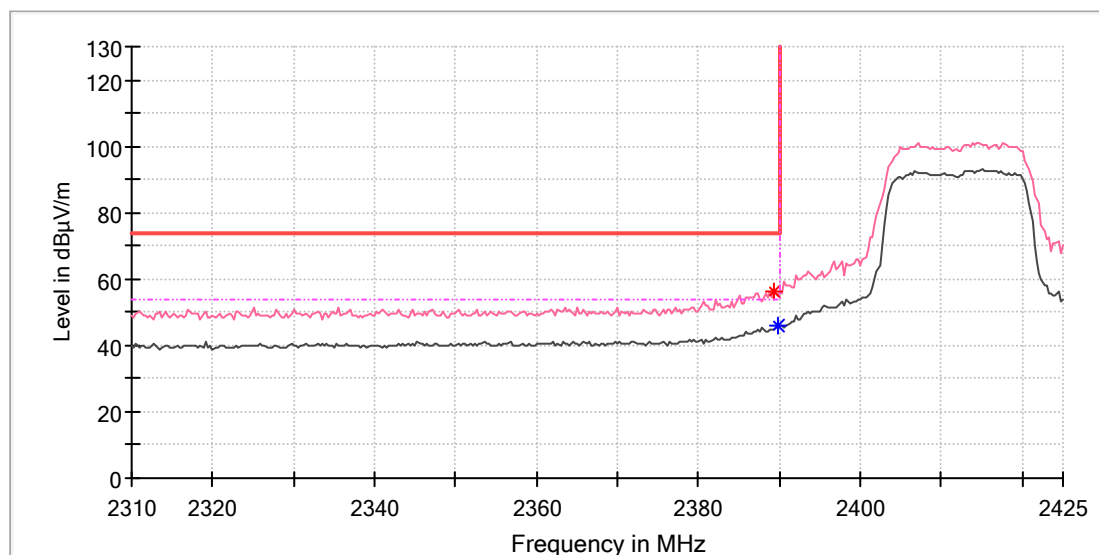
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.705882	---	50.47	54.00	3.53	150.0	H	303.0	8.5
2390.000000	62.00	---	74.00	12.00	150.0	H	303.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11g_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

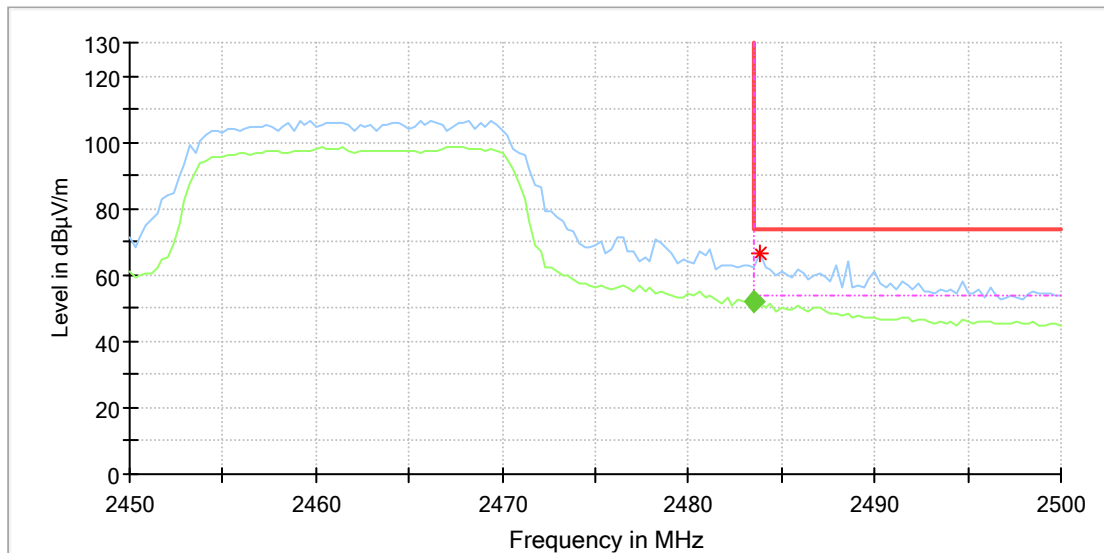
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	56.10	---	74.00	17.90	150.0	V	73.0	8.5
2389.705882	---	45.69	54.00	8.31	150.0	V	236.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: Smart Ceiling LED Light
Model: CE02N
Test Mode: WIFI 2.4G_11g_Ch11
Order No/Sample No: 27232029/A004264923-002
Test Voltage: 120V/60Hz
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

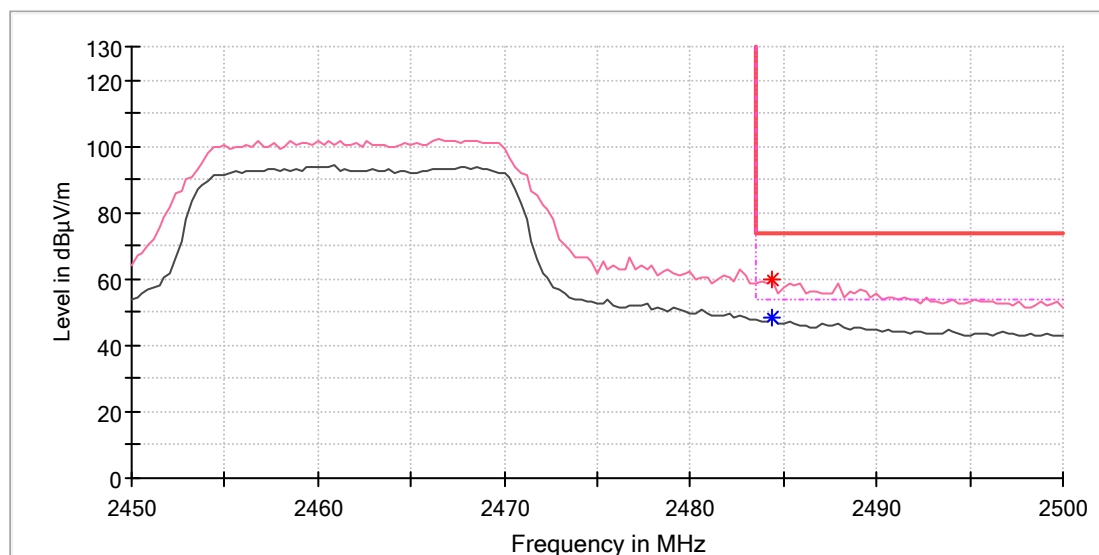
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	66.53	---	74.00	7.47	150.0	H	307.0	9.0

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	---	51.77	54.00	2.23	150.0	H	345.0	9.0

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11g_Ch11
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.411765	60.09	---	74.00	13.91	150.0	V	176.0	9.0
2484.411765	---	48.11	54.00	5.89	150.0	V	176.0	9.0

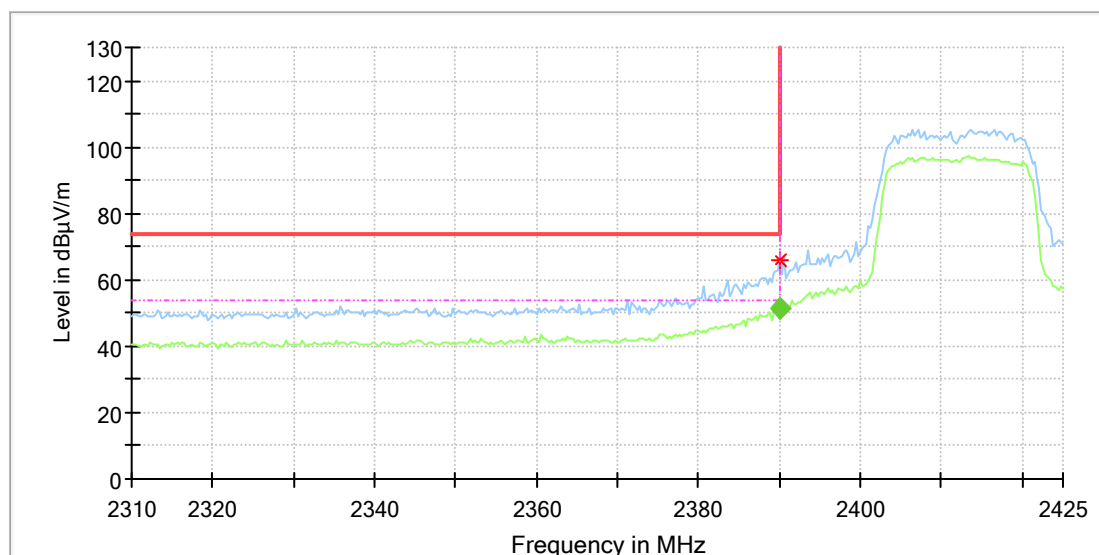
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Wi-Fi 802.11 n(HT20) mode

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

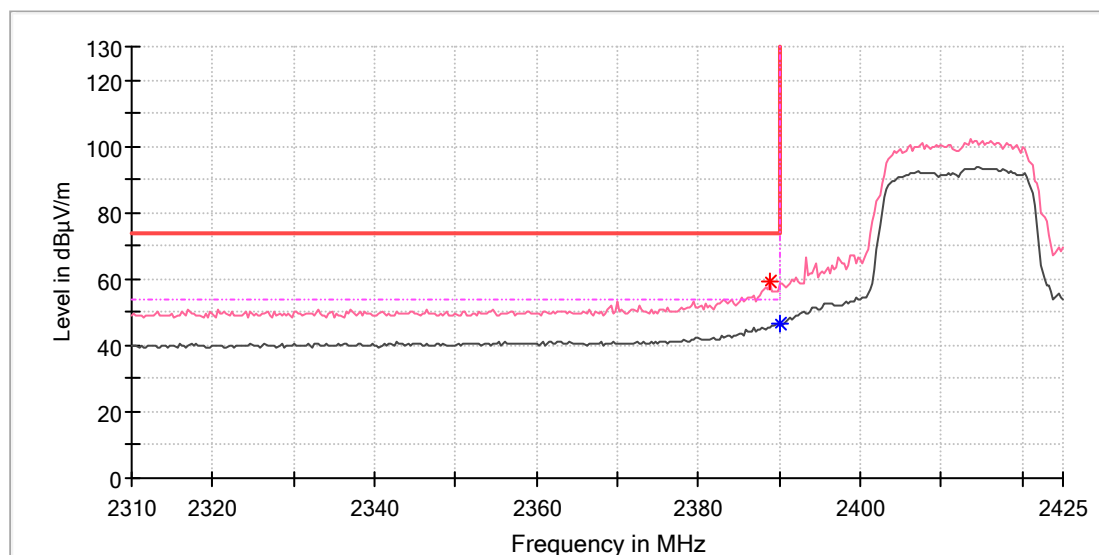
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	66.17	---	74.00	7.83	150.0	H	306.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	---	51.59	54.00	2.41	150.0	H	306.0	8.5

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

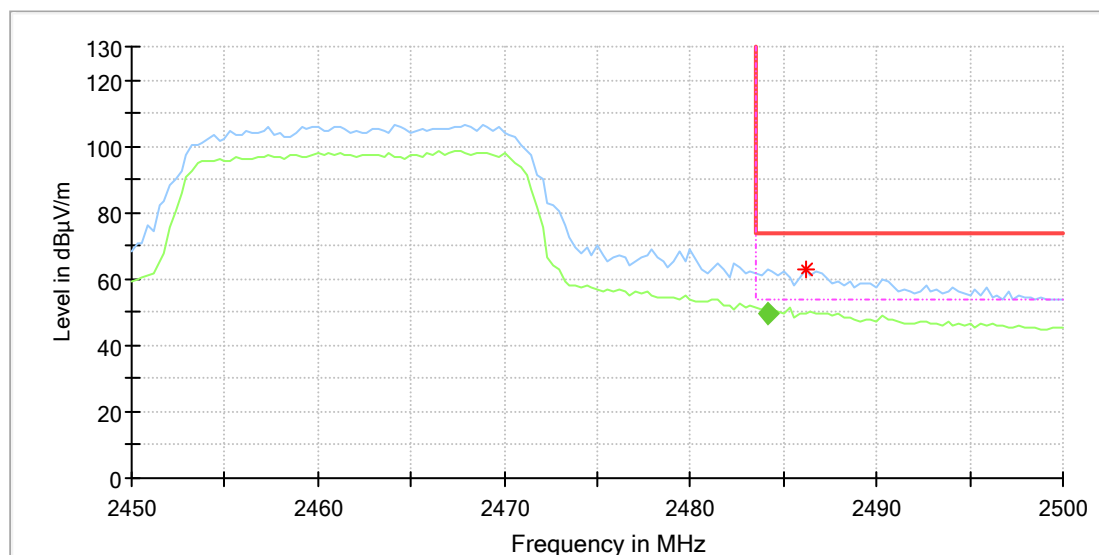
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2388.823529	59.24	---	74.00	14.76	150.0	V	78.0	8.5
2390.000000	---	46.80	54.00	7.20	150.0	V	55.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name: Smart Ceiling LED Light
Model: CE02N
Test Mode: WIFI 2.4G_11n20_Ch11
Order No/Sample No: 27232029/A004264923-002
Test Voltage: 120V/60Hz
Remark: Temp 23.2°C Humi:51%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.176471	62.75	---	74.00	11.25	150.0	H	344.0	9.0

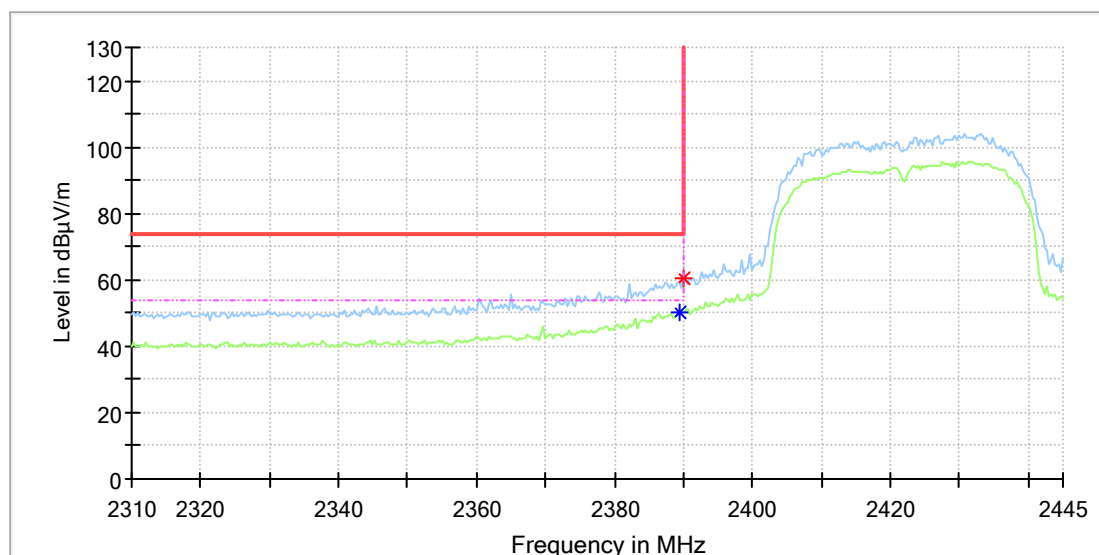
Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	---	49.80	54.00	4.20	150.0	H	312.0	9.0

Wi-Fi 802.11 n(HT40) mode

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

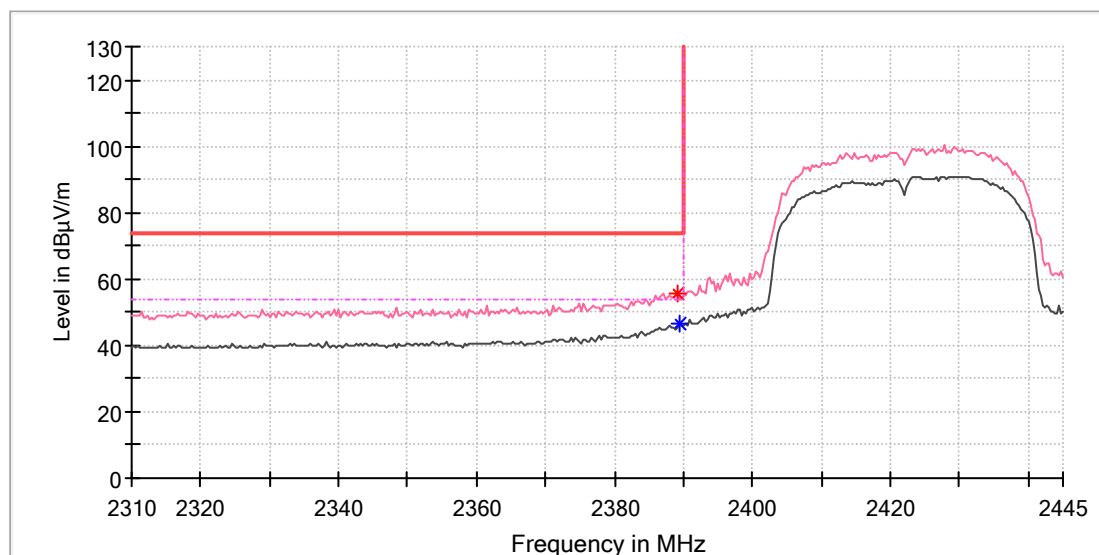
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	---	50.26	54.00	3.74	150.0	H	299.0	8.5
2390.000000	60.22	---	74.00	13.78	150.0	H	304.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

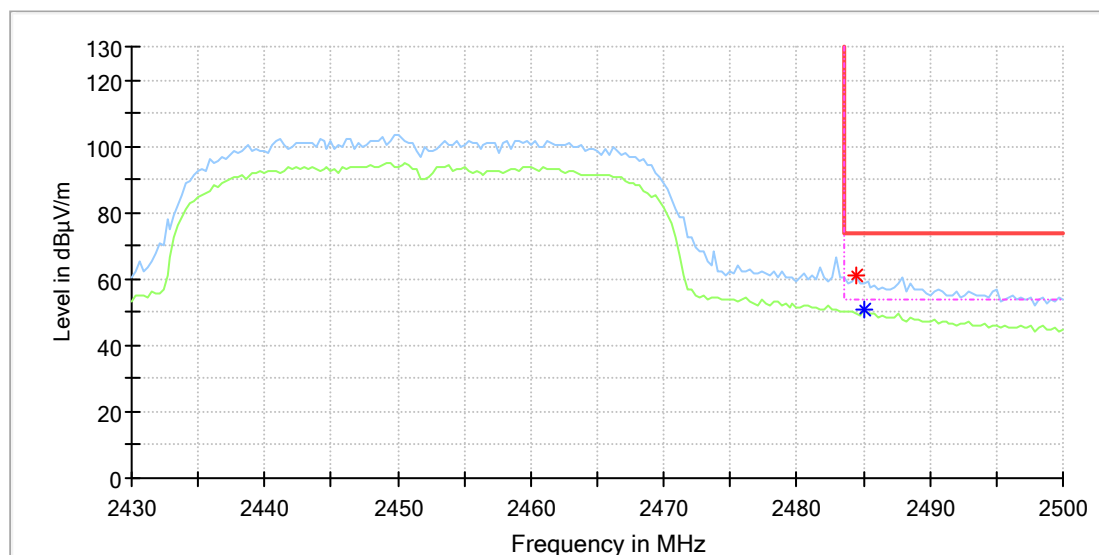
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.117647	55.37	---	74.00	18.63	150.0	V	45.0	8.5
2389.411765	---	46.68	54.00	7.32	150.0	V	226.0	8.5

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

EUT Information

EUT Name:	Smart Ceiling LED Light
Model:	CE02N
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	27232029/A004264923-002
Test Voltage:	120V/60Hz
Remark:	Temp 23.2°C Humi:51%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.411765	61.06	---	74.00	12.94	150.0	H	348.0	9.0
2485.000000	---	50.63	54.00	3.37	150.0	H	348.0	9.0

Final Result

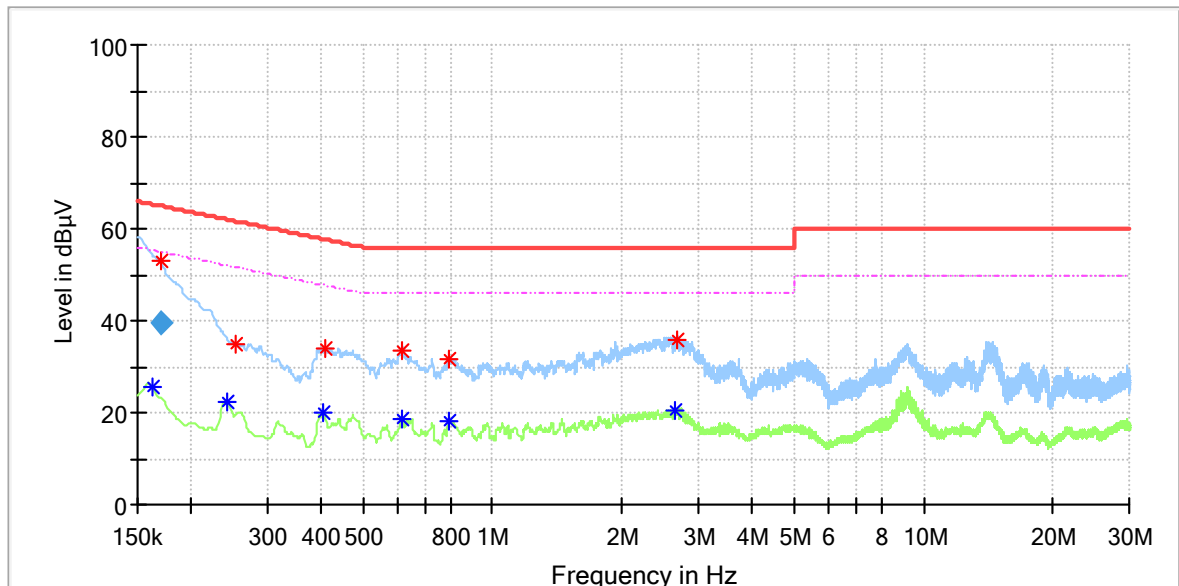
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Appendix B.8: Test Results of Conducted Emission on AC Mains

Test Report

EUT Information

EUT Name: Smart Ceiling LED Light
Order Number: P02404351-27232029
Model: CE02N
Test Mode: Normal Working+Lighting+BLE/2.4G wifi
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Kai Chen/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.2%/101kPa
Remark: SR2



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.16	---	25.46	55.38	29.92	L1	10.24
0.17	53.00	---	65.64	12.64	L1	10.24
0.24	---	22.19	52.00	29.80	L1	10.24
0.25	34.84	---	61.61	26.77	L1	10.24
0.40	---	19.86	47.78	27.92	L1	10.25
0.41	33.80	---	57.64	23.85	L1	10.25
0.62	33.39	---	56.00	22.61	L1	10.27
0.62	---	18.83	46.00	27.17	L1	10.27
0.79	31.59	---	56.00	24.41	L1	10.28
0.80	---	18.25	46.00	27.75	L1	10.28
2.65	---	20.49	46.00	25.51	L1	10.32
2.67	35.91	---	56.00	20.09	L1	10.33

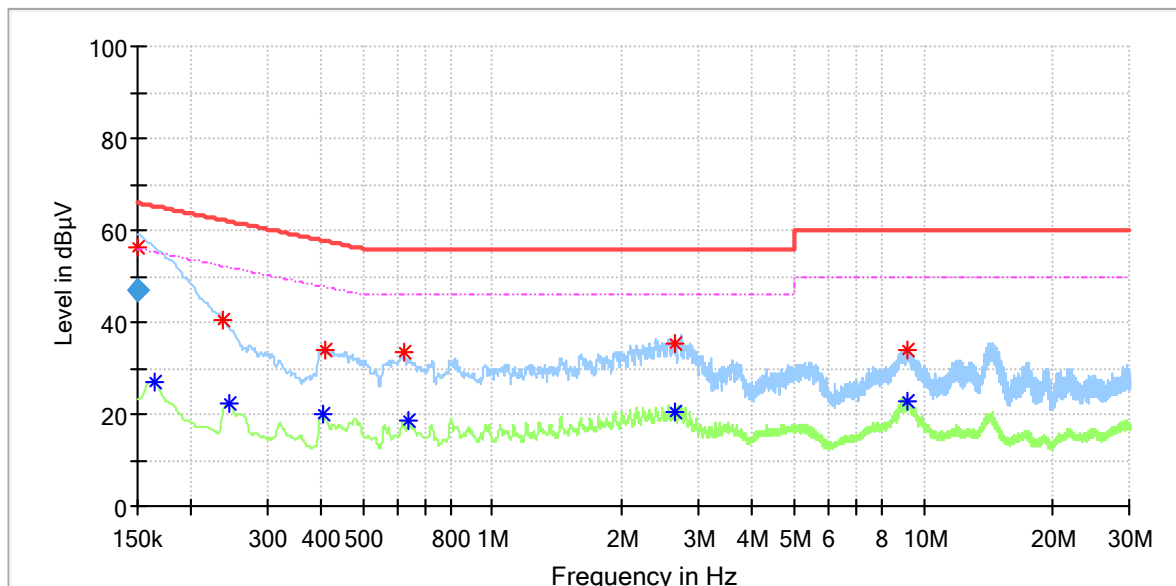
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.17	39.34	---	64.96	25.62	1000.00	9.00	L1	10.24

Test Report

EUT Information

EUT Name: Smart Ceiling LED Light
Order Number: P02404351-27232029
Model: CE02N
Test Mode: Normal Working+Lighting+BLE/2.4G wifi
Test Voltage: AC 120V/60Hz
Standard: FCC Part 15
Test By:/Review By: Kai Chen/ Charlie Zha
Tem./Hum./Pressure: 24.3°C/51.2%/101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.15	56.29	---	65.21	8.92	N	10.25
0.16	---	26.95	55.21	28.26	N	10.25
0.24	40.62	---	62.17	21.55	N	10.25
0.25	---	22.37	51.89	29.52	N	10.25
0.40	---	20.13	47.81	27.68	N	10.26
0.41	33.72	---	57.68	23.95	N	10.26
0.62	33.41	---	56.00	22.59	N	10.28
0.64	---	18.78	46.00	27.22	N	10.28
2.63	---	20.34	46.00	25.66	N	10.32
2.65	35.47	---	56.00	20.53	N	10.32
9.13	33.96	---	60.00	26.04	N	10.62
9.16	---	22.85	50.00	27.15	N	10.62

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.15	47.10	---	66.00	18.90	1000.00	9.00	N	10.25