

Prüfbericht-Nr.: <i>Test report no.:</i>	CN24XU7 001	Auftrags-Nr.: <i>Order no.:</i>	170390856	Seite 1 von 27 <i>Page 1 of 27</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024.10.14	
Auftraggeber: <i>Client:</i>	ONWARD BRANDS LLC 767 5TH AVE FL 37TH NEW YORK, NY 10153, USA			
Prüfgegenstand: <i>Test item:</i>	Dongle (Trademark: Incase)			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	OB1970			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR Title 47, Part 15, Subpart C, Section 15.247 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-03-06	Please refer to Photo Document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	LP24070228C05-S119			
Prüfzeitraum: <i>Testing period:</i>	2025-03-20 to 2025-05-09			
Ort der Prüfung: <i>Place of testing:</i>	Refer to section 2.1			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Guangdong) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>			genehmigt von: <i>authorized by:</i>	
Datum: <i>Date:</i>	2025-06-23	<i>Signed by: Amy Wang</i>	Ausstellungsdatum: <i>Issue date:</i>	2025-06-23 <i>Signed by: Storm Shu</i>
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BCOY-OB1970 IC: 32736-OB1970 HVIN: OB1970			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	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>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.</i> <i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i>
2	As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. <i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i>
3	Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report. <i>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>
4	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 115:2021, 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>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 115:2021, 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>

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 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

RESULT: Pass

5.1.10 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.11 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.12 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 (BR & EDR) Operation(OB1970).

Appendix B: Test Results of Bluetooth (Low Energy) Operation(OB1970).

Appendix C: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

Dongguan Lepont Testing Service Co., Ltd.

Room 102, Building 11, No.7, Houjie Science And Technology Avenue, Houjie, Dongguan, Guangdong, China.

FCC Accreditation Designation No.: CN1351

ISED wireless device testing laboratory: 20133

TÜV Rheinland (Guangdong) Co., Ltd. subcontract all test to Dongguan Lepont Testing Service Co., Ltd. And all tests at this site have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Spectrum analyzer	Agilent	N9020A	MY49100060	Jan. 06, 2026
Vector source	Agilent	N5182A	MY47420382	Jan. 06, 2026
Analog signal source	Agilent	N5171B	MY51350292	Jan. 06, 2026
All instrument	Rohde & Schwarz	CMW 500	1201.002K50	Jan. 06, 2026
High and low temperature chamber	Math-mart	MT-1202-40	LEP-E041	Jan. 06, 2026
control unit	Tonscend	JS0806-2	10165	Jan. 06, 2026
Testing software	Tonscend	JSTS1120-3	Ver 2.6.77.0518	N/A
Unwanted Emission Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	Rohde & Schwarz	ESR 3	101849	Dec. 22, 2025
TRILOG Broadband Antenna (30-1000MHz)	Schwarzbeck	VULB 9163	743	Nov. 19, 2025
Signal Amplifier	HP	8447D	1726A01222	Jan. 06, 2026
Spectrum analyzer	Agilent	N9020A	MY49100060	Jan. 06, 2026
Horn antenna	Schwarzbeck	BBHA 9120D	01875	Jan. 23, 2026
Preamplifier	Schwarzbeck	BBN 9718B	00010	Jan. 06, 2026
Test software	EZ-EMC	Fala	EMEC-3A1	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	± 1.06 dB
Occupied Channel Bandwidth	± 1.42%
Unwanted Emissions, conducted	± 2.51 dB
Radiated Emission of Transmitter, valid up to 26.5 GHz	± 3.70 dB
Radiated Emission of Receiver, valid up to 26.5 GHz	± 3.70 dB
Power Spectral Density, conducted	±1.06dB
Time	±5%
Duty cycle	±5%

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

Dongguan Lepont Testing Service Co., Ltd. Test facility located at Room 102, Building 11, No.7, Houjie Science and Technology Avenue, Houjie, Dongguan, Guangdong, 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 EUT is a USB dongle, which supports Classic Bluetooth and Bluetooth low energy 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:	Dongle
Type Designation:	OB1970
Trademark:	Incase
FCC ID:	2BCOY-OB1970
IC:	32736-OB1970
HVIN:	OB1970
Operating Voltage:	Supplied by PC USB Port (PC input voltage 120Vac, 60Hz)
Test Voltage:	DC5V, supplied by PC USB Port
Operating Temperature Range:	0 °C ~ +40 °C
Technical Specification of Bluetooth (dual mode)	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Channel Number:	BR & EDR mode:79 channels, Low Energy mode:40 channels
Channel Separation:	BR & EDR mode:1MHz, Low Energy mode:2MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps Low Energy mode: 1Mbps, 2Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	4.0 dBi (Provided by the Client)

Table 4: RF Channel and Frequency of Bluetooth BR & EDR

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	2402.00	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00		

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR

Table 5: 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

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth transmitting mode (BR & EDR mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Bluetooth transmitting mode (Bluetooth LE mode)
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- C. On, Transmitting on Hopping channel
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-------------------------|
| - Application Form | - Operation Description |
| - ID Label and Location Info | - Block Diagram |
| - Schematics | - PCB Layout |

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: 2013.

According to clause 3.1, all tests were performed on model **OB1970** 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	Xiaoxin Pro IA5HR	PF490VB0

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)

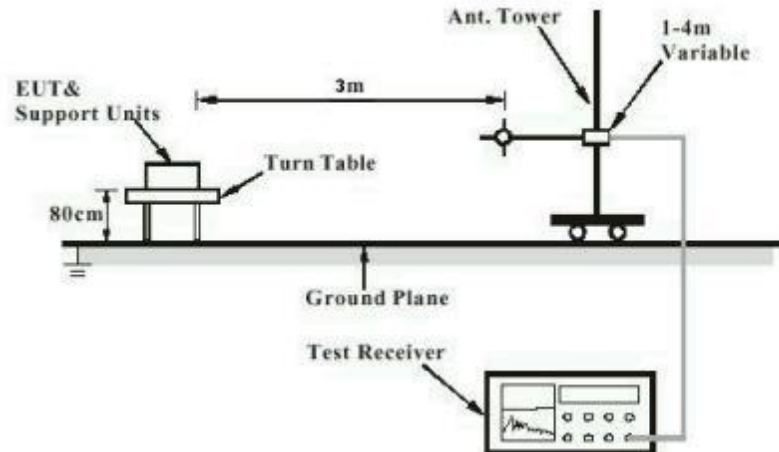


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



Diagram of Measurement Configuration for Mains Conduction Measurement

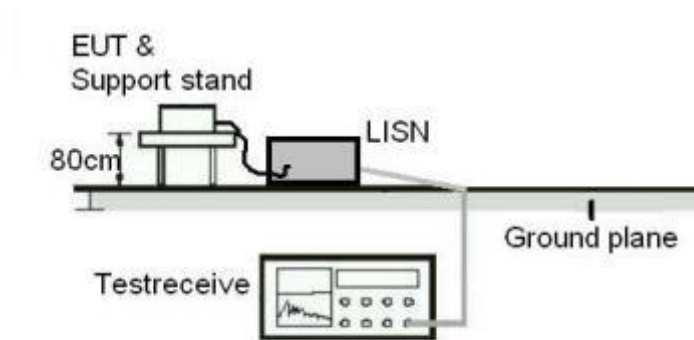
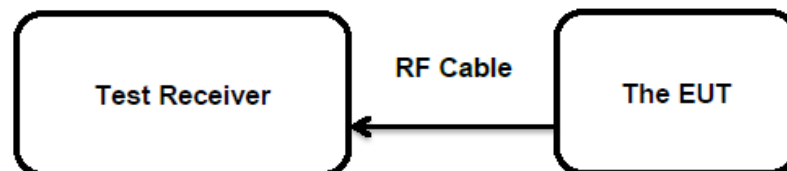


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

The EUT has an FPC Antenna, the directional gain of antenna is 4.0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

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)(1)&(3) RSS-247 Clause 5.4(b)&(d)
Basic standard	: ANSI C63.10: 2013
Limits	: FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-03-20 to 2025-03-27
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 22.8 °C
Relative humidity	: 35 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

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Table 7: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

Test Mode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	2402	3.37	≤30	PASS
DH5	2441	3.30	≤30	PASS
DH5	2480	3.11	≤30	PASS
2DH5	2402	5.06	≤30	PASS
2DH5	2441	5.22	≤30	PASS
2DH5	2480	4.97	≤30	PASS
3DH5	2402	5.72	≤30	PASS
3DH5	2441	5.78	≤30	PASS
3DH5	2480	5.43	≤30	PASS

Table 8: Test Result of Maximum Peak Conducted Output Power, Bluetooth LE

TestMode	Frequency[MHz]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	2402	-4.00	≤30	0.00	≤36	PASS
BLE_1M	2440	-4.55	≤30	-0.55	≤36	PASS
BLE_1M	2480	-4.23	≤30	-0.23	≤36	PASS
BLE_2M	2402	-4.61	≤30	-0.61	≤36	PASS
BLE_2M	2440	-4.32	≤30	-0.32	≤36	PASS
BLE_2M	2480	-4.56	≤30	-0.56	≤36	PASS

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 4.0 dBi

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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 5.2(b)
Basic standard	: ANSI C63.10: 2013
Limits	: < 8 dBm / 3kHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 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 5.2(a)
Basic standard	: ANSI C63.10: 2013
Limits	: > 500 KHz
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix 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: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2025-04-28 to 2025-05-09
Input voltage : DC 5V, Supplied by PC USB Port
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 23.6 °C
Relative humidity : 46%
Atmospheric pressure : 101 kPa

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

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5.1.6 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(1) RSS-247 Clause 5.1(a)
Basic standard	: ANSI C63.10: 2013
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.7 Carrier Frequency Separation

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(a)(1) RSS-247 Clause 5.1(b)
Basic standard	: ANSI C63.10: 2013
Limits	: $\geq 25\text{kHz}$ or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: C
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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5.1.8 Number of Hopping Frequency

RESULT:

Pass

Test Specification

Test standard	: FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	: ANSI C63.10: 2013
Limits	: ≥ 15 non-overlapping channels
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: C
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.9 Time of Occupancy

RESULT:

Pass

Test Specification

Test standard	: FCC part 15.247(a)(1)(iii) RSS-247 Clause 5.1(d)
Basic standard	: ANSI C63.10: 2013
Limits	: < 0.4s
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: C
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

5.1.10 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

Test standard	: FCC Part 15.247(d) RSS-247 Clause 5.5
Basic standard	: ANSI C63.10: 2013
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	: 2025-04-28 to 2025-05-09
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 46%
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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5.1.11 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
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	: 2025-05-17
Input voltage	: DC 5V, Supplied by PC USB Port
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
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 26 von 27
Page 26 of 27**5.1.12 Conducted Emission on AC Mains****RESULT:****Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	: ANSI C63.4:2014
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	: 2025-05-17
Input voltage	: Supplied by PC USB Port (PC input voltage 120Vac, 60Hz)
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 23.9 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

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

7 List of Tables

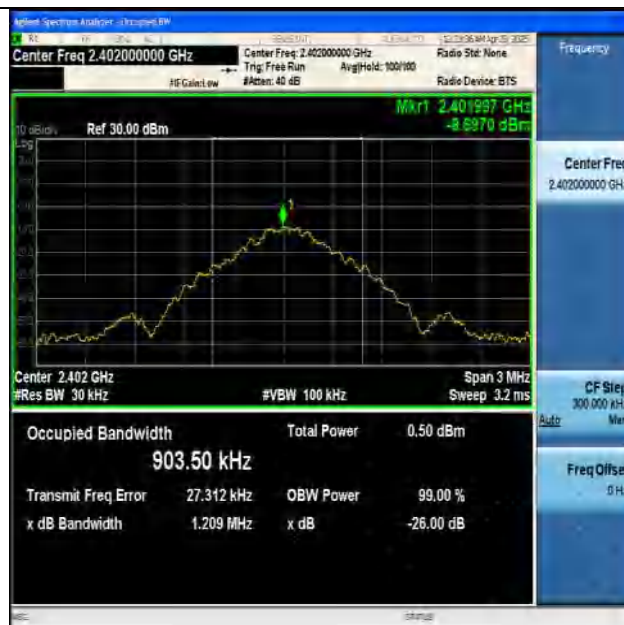
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Appendix A: Test Results of Bluetooth BR & EDR mode

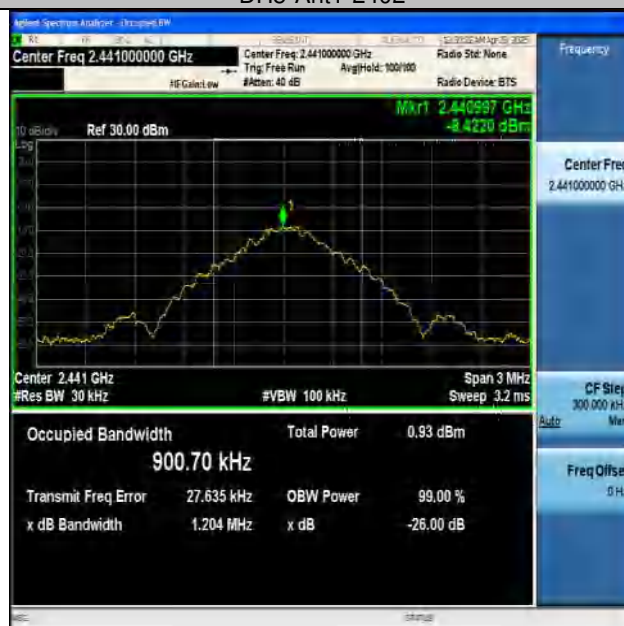
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Appendix A.1: Test Results of 99% Bandwidth

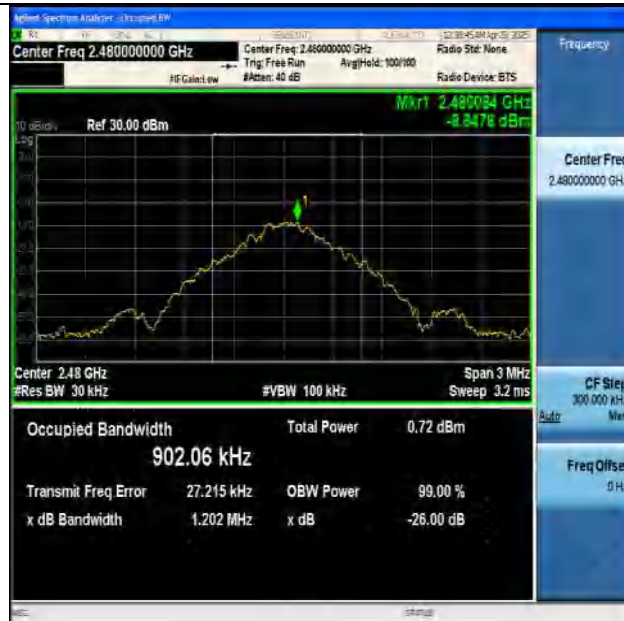
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.90350	2401.5756	2402.4791	---	---
DH5	Ant1	2441	0.90070	2440.5773	2441.4780	---	---
DH5	Ant1	2480	0.90206	2479.5762	2480.4783	---	---
2DH5	Ant1	2402	1.2023	2401.4211	2402.6234	---	---
2DH5	Ant1	2441	1.2023	2440.4220	2441.6243	---	---
2DH5	Ant1	2480	1.1997	2479.4233	2480.6230	---	---
3DH5	Ant1	2402	1.2124	2401.4132	2402.6256	---	---
3DH5	Ant1	2441	1.2034	2440.4210	2441.6244	---	---
3DH5	Ant1	2480	1.2089	2479.4120	2480.6209	---	---



DH5-Ant1-2402



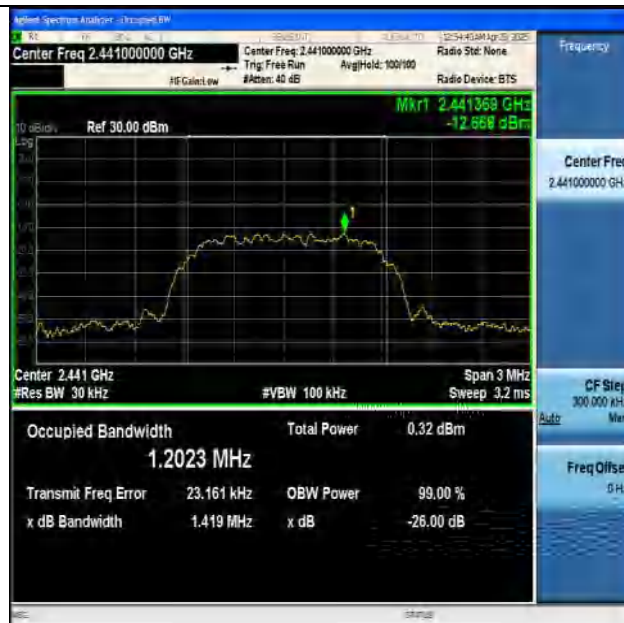
DH5-Ant1-2441



DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



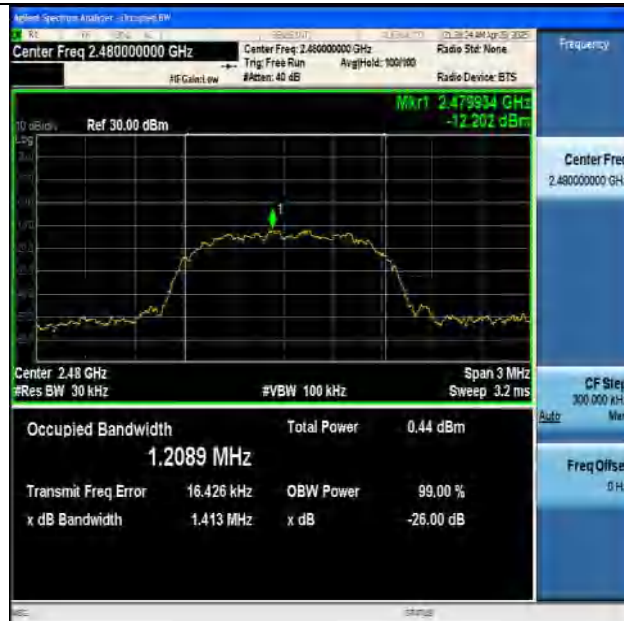
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

Appendix A.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.969	2401.553	2402.522	---	---
DH5	Ant1	2441	0.963	2440.556	2441.519	---	---
DH5	Ant1	2480	0.969	2479.550	2480.519	---	---
2DH5	Ant1	2402	1.371	2401.340	2402.711	---	---
2DH5	Ant1	2441	1.374	2440.337	2441.711	---	---
2DH5	Ant1	2480	1.377	2479.334	2480.711	---	---
3DH5	Ant1	2402	1.356	2401.343	2402.699	---	---
3DH5	Ant1	2441	1.359	2440.343	2441.702	---	---
3DH5	Ant1	2480	1.356	2479.343	2480.699	---	---



DH5-Ant1-2402



DH5-Ant1-2441



DH5-Ant1-2480



2DH5-Ant1-2402



2DH5-Ant1-2441



2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

Appendix A.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.008	≥ 0.969	PASS
2DH5	Ant1	Hop	1.374	≥ 0.918	PASS
3DH5	Ant1	Hop	1.04	≥ 0.906	PASS



DH5-Ant1-Hop-PASS



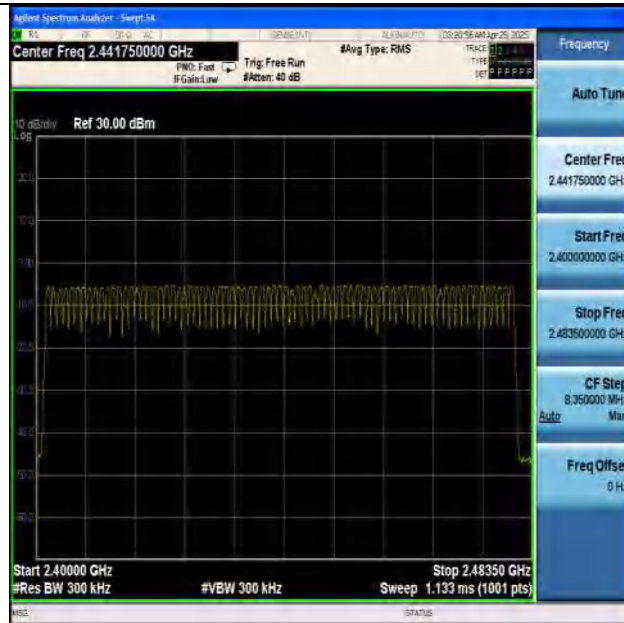
2DH5-Ant1-Hop-PASS



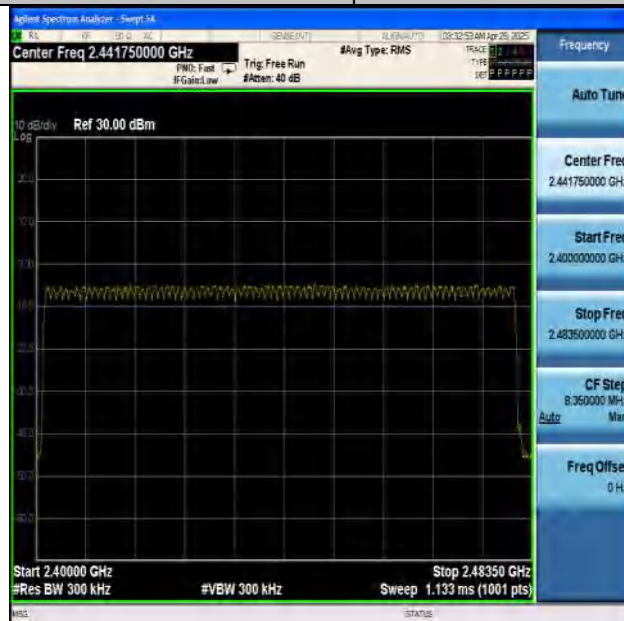
3DH5-Ant1-Hop-PASS

Appendix A.4: Test Results of Number of Hopping Frequency

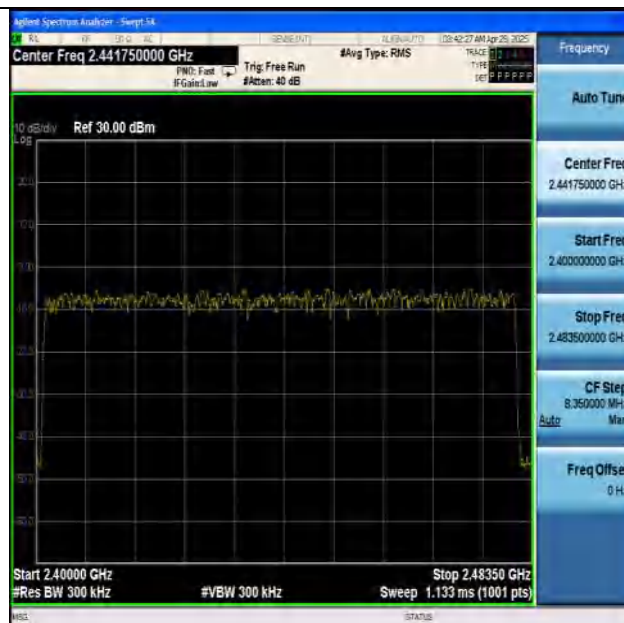
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS



DH5-Ant1-Hop-PASS



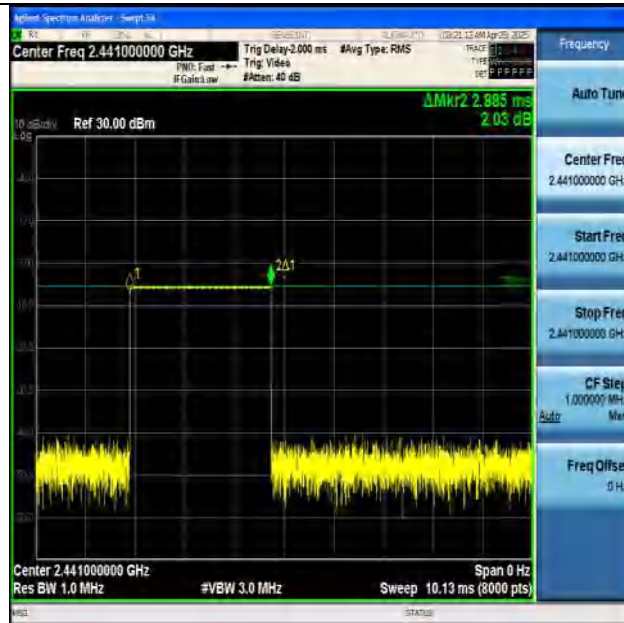
2DH5-Ant1-Hop-PASS



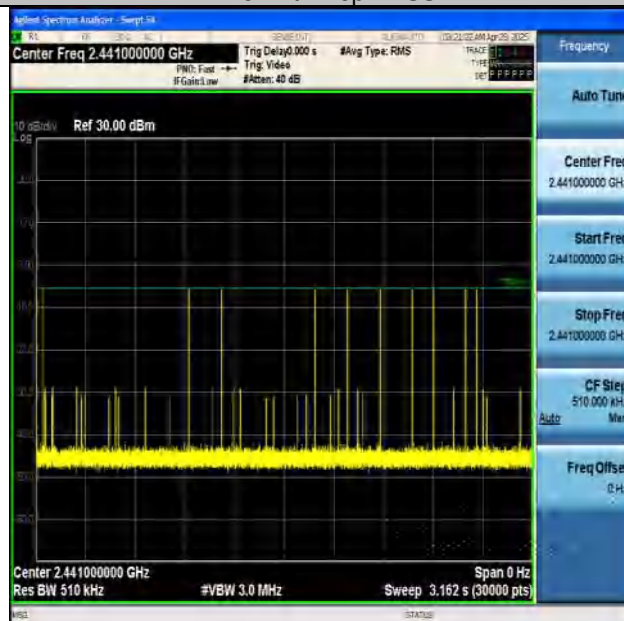
3DH5-Ant1-Hop-PASS

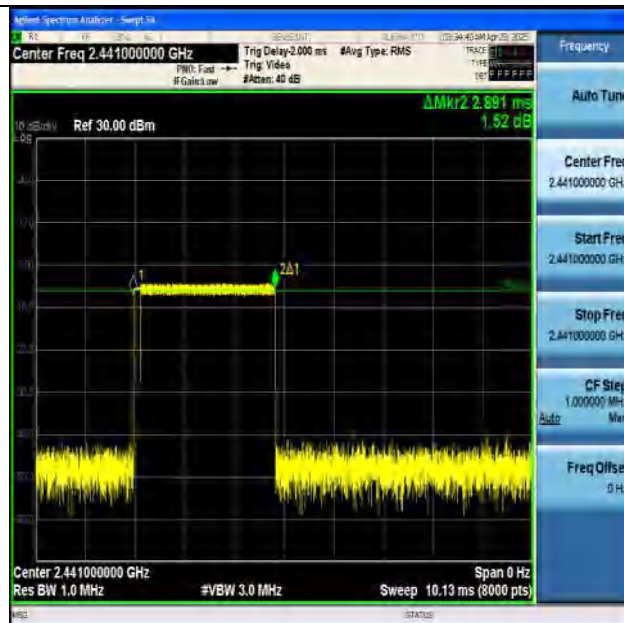
Appendix A.5: Test Results of Time of Occupancy

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.885	110	0.317	≤0.4	PASS
2DH5	Ant1	Hop	2.891	120	0.347	≤0.4	PASS
3DH5	Ant1	Hop	2.892	70	0.202	≤0.4	PASS

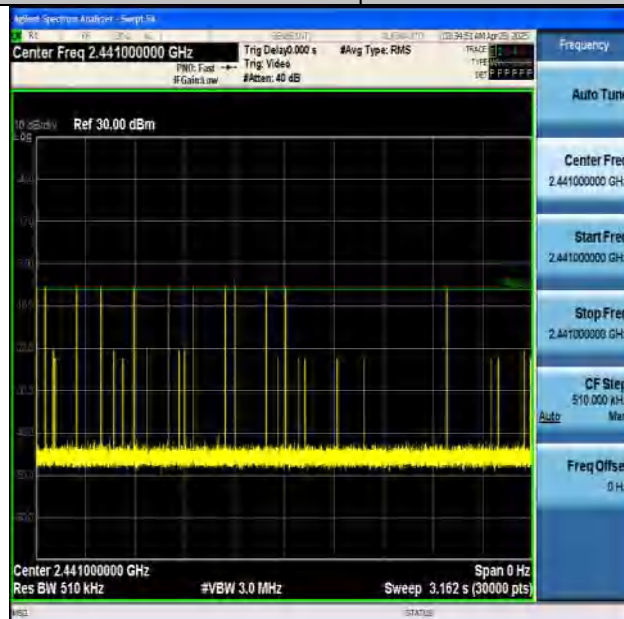


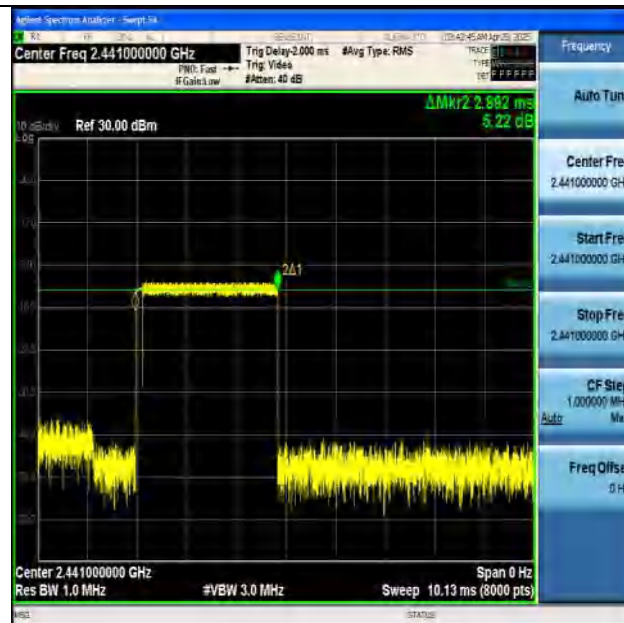
DH5-Ant1-Hop-PASS



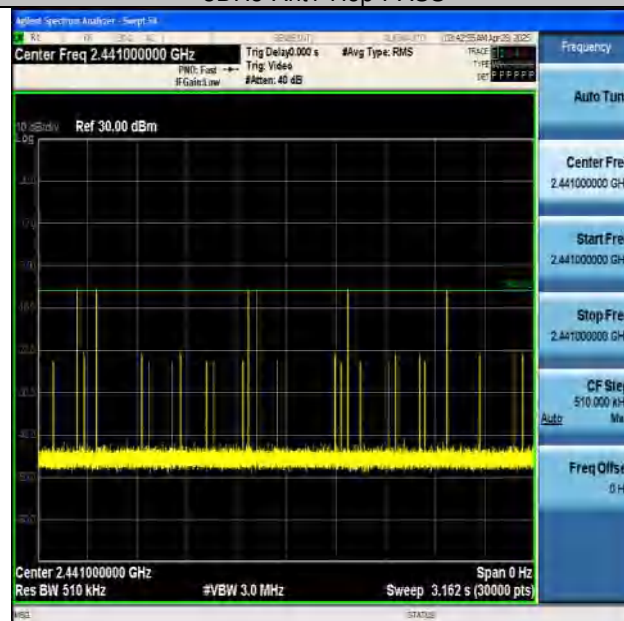


2DH5-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



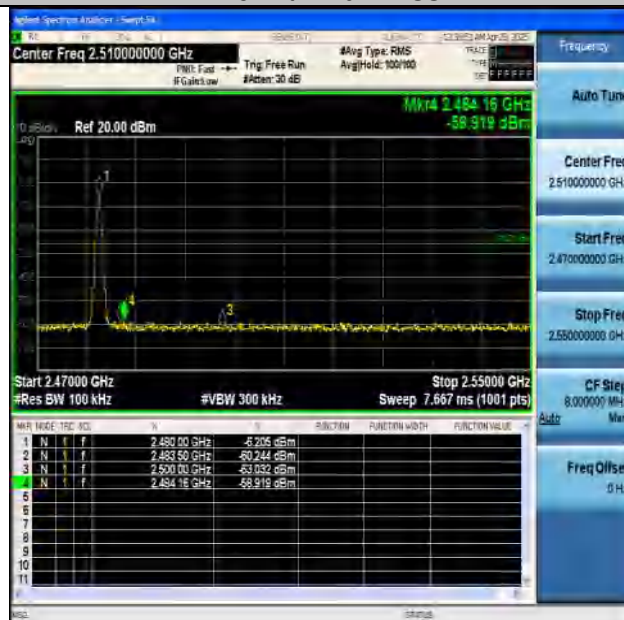
Appendix A.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-6.36	-57.96	≤-26.36	PASS
DH5	Ant1	High	2480	-6.21	-58.92	≤-26.21	PASS
DH5	Ant1	Low	Hop_2402	-6.99	-58.33	≤-26.99	PASS
DH5	Ant1	High	Hop_2480	-6.35	-58.1	≤-26.35	PASS
2DH5	Ant1	Low	2402	-8.48	-58.56	≤-28.48	PASS
2DH5	Ant1	High	2480	-7.91	-57.85	≤-27.91	PASS
2DH5	Ant1	Low	Hop_2402	-8.38	-58.73	≤-28.38	PASS
2DH5	Ant1	High	Hop_2480	-6.01	-58.27	≤-26.01	PASS
3DH5	Ant1	Low	2402	-8.69	-58.2	≤-28.69	PASS
3DH5	Ant1	High	2480	-8.38	-58.31	≤-28.38	PASS
3DH5	Ant1	Low	Hop_2402	-9.17	-58.61	≤-29.17	PASS
3DH5	Ant1	High	Hop_2480	-6.81	-58.44	≤-26.81	PASS



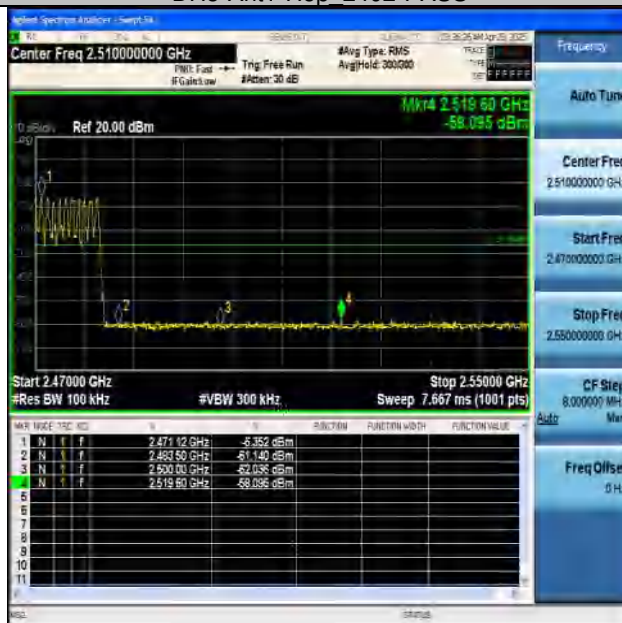
DH5-Ant1-2402-PASS



DH5-Ant1-2480-PASS



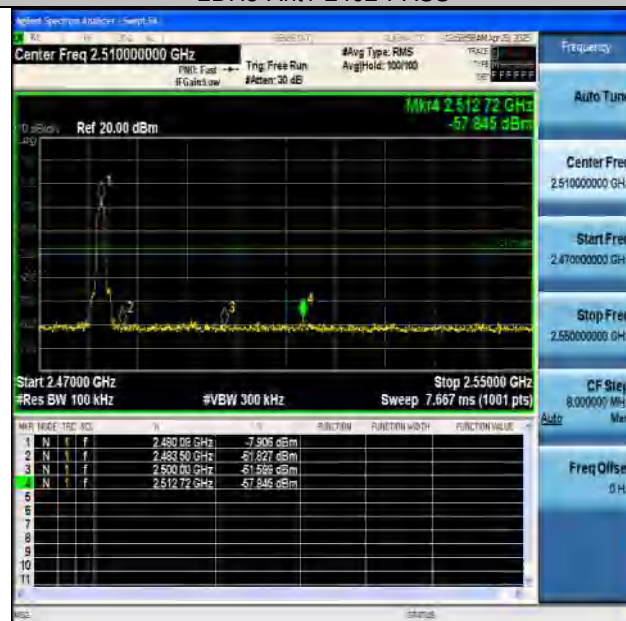
DH5-Ant1-Hop_2402-PASS



DH5-Ant1-Hop_2480-PASS



2DH5-Ant1-2402-PASS



2DH5-Ant1-2480-PASS



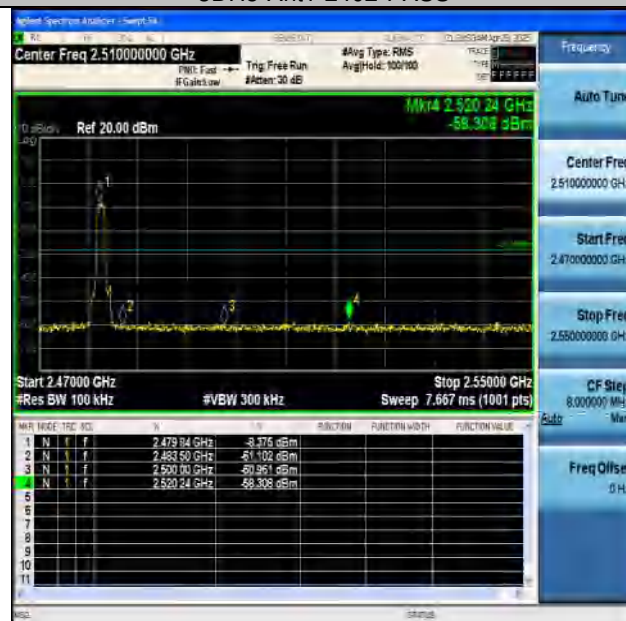
2DH5-Ant1-Hop 2402-PASS



2DH5-Ant1-Hop 2480-PASS



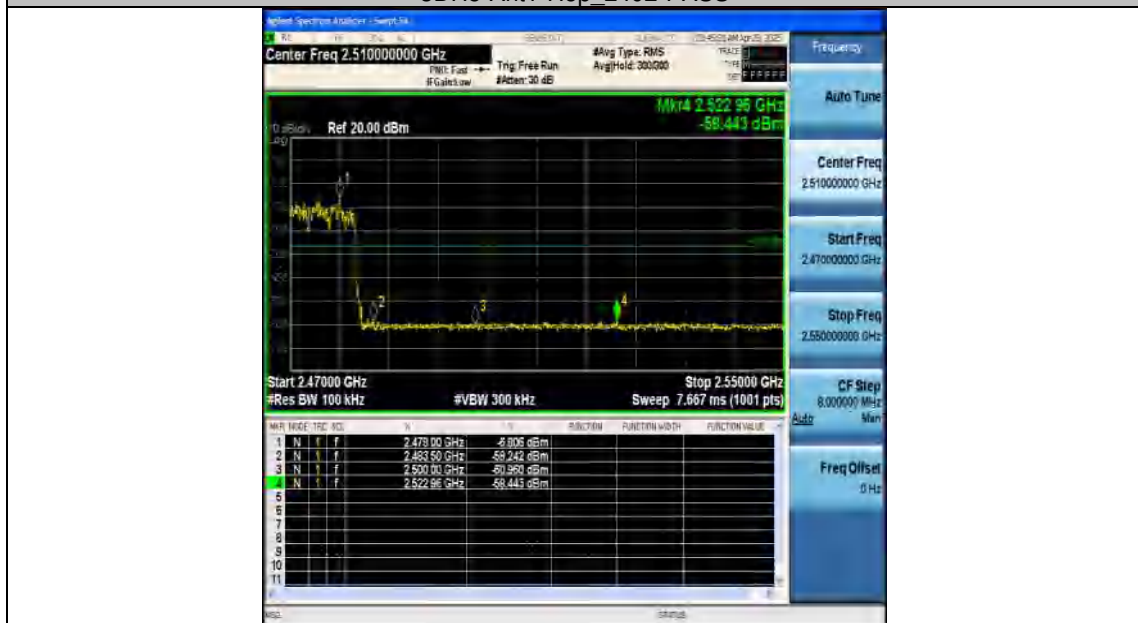
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS



3DH5-Ant1-Hop_2402-PASS



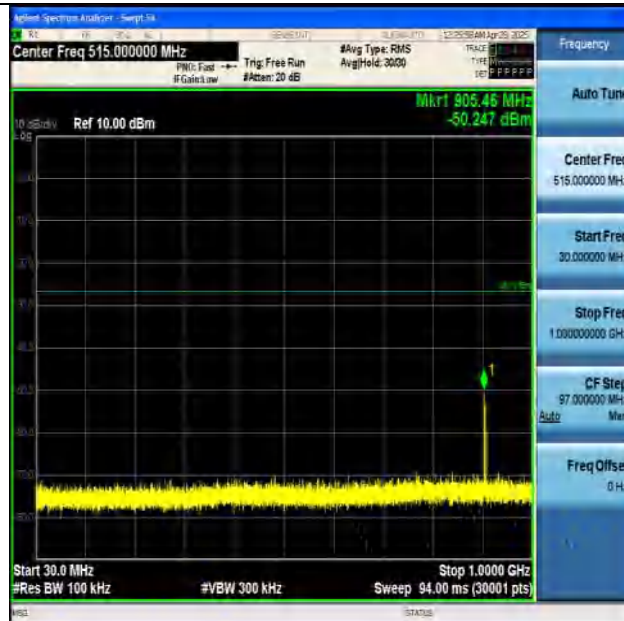
3DH5-Ant1-Hop_2480-PASS

Conducted Spurious Emission

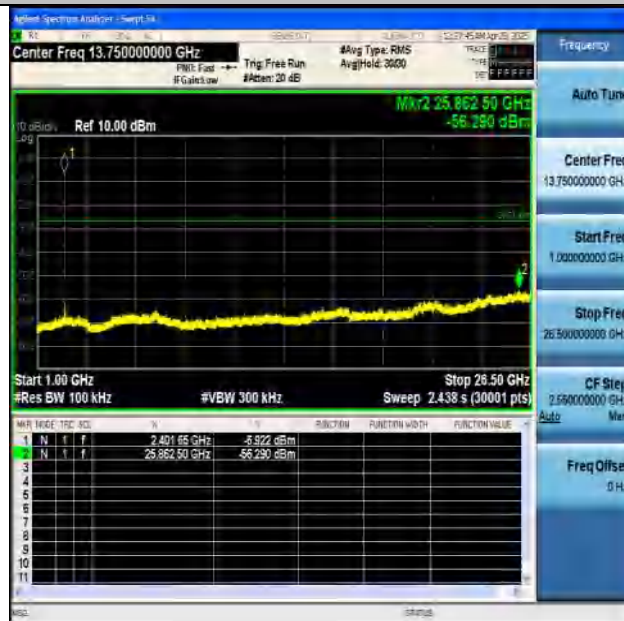
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-6.79	-6.79	---	PASS
DH5	Ant1	2402	30~1000	-6.79	-50.25	≤-26.79	PASS
DH5	Ant1	2402	1000~26500	-6.79	-56.29	≤-26.79	PASS
DH5	Ant1	2441	0~Reference	-6.55	-6.55	---	PASS
DH5	Ant1	2441	30~1000	-6.55	-40.03	≤-26.55	PASS
DH5	Ant1	2441	1000~26500	-6.55	-55.53	≤-26.55	PASS
DH5	Ant1	2480	0~Reference	-6.77	-6.77	---	PASS
DH5	Ant1	2480	30~1000	-6.77	-40.1	≤-26.77	PASS
DH5	Ant1	2480	1000~26500	-6.77	-34.93	≤-26.77	PASS
2DH5	Ant1	2402	0~Reference	-9.61	-9.61	---	PASS
2DH5	Ant1	2402	30~1000	-9.61	-55.25	≤-29.61	PASS
2DH5	Ant1	2402	1000~26500	-9.61	-55.43	≤-29.61	PASS
2DH5	Ant1	2441	0~Reference	-8.24	-8.24	---	PASS
2DH5	Ant1	2441	30~1000	-8.24	-54.28	≤-28.24	PASS
2DH5	Ant1	2441	1000~26500	-8.24	-56.55	≤-28.24	PASS
2DH5	Ant1	2480	0~Reference	-8.12	-8.12	---	PASS
2DH5	Ant1	2480	30~1000	-8.12	-55.47	≤-28.12	PASS
2DH5	Ant1	2480	1000~26500	-8.12	-56.19	≤-28.12	PASS
3DH5	Ant1	2402	0~Reference	-8.70	-8.70	---	PASS
3DH5	Ant1	2402	30~1000	-8.70	-46.95	≤-28.7	PASS
3DH5	Ant1	2402	1000~26500	-8.70	-56.21	≤-28.7	PASS
3DH5	Ant1	2441	0~Reference	-8.41	-8.41	---	PASS
3DH5	Ant1	2441	30~1000	-8.41	-46.51	≤-28.41	PASS
3DH5	Ant1	2441	1000~26500	-8.41	-55.45	≤-28.41	PASS
3DH5	Ant1	2480	0~Reference	-8.19	-8.19	---	PASS
3DH5	Ant1	2480	30~1000	-8.19	-48.59	≤-28.19	PASS
3DH5	Ant1	2480	1000~26500	-8.19	-56.38	≤-28.19	PASS



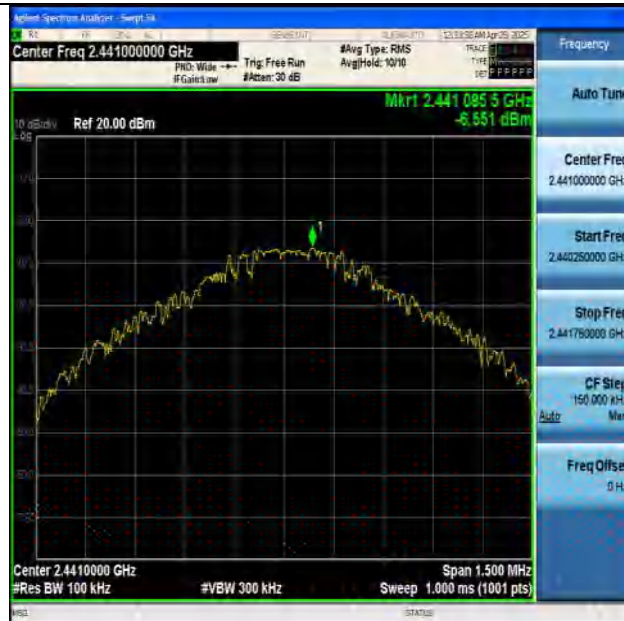
DH5-Ant1-2402-0~Reference-PASS



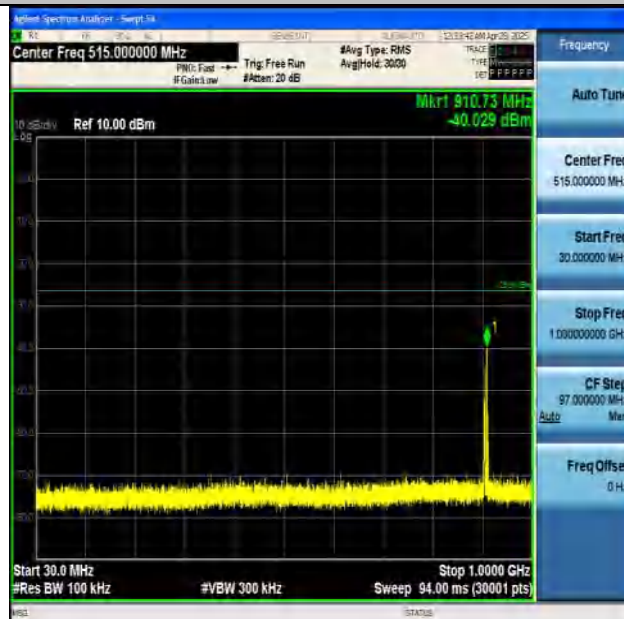
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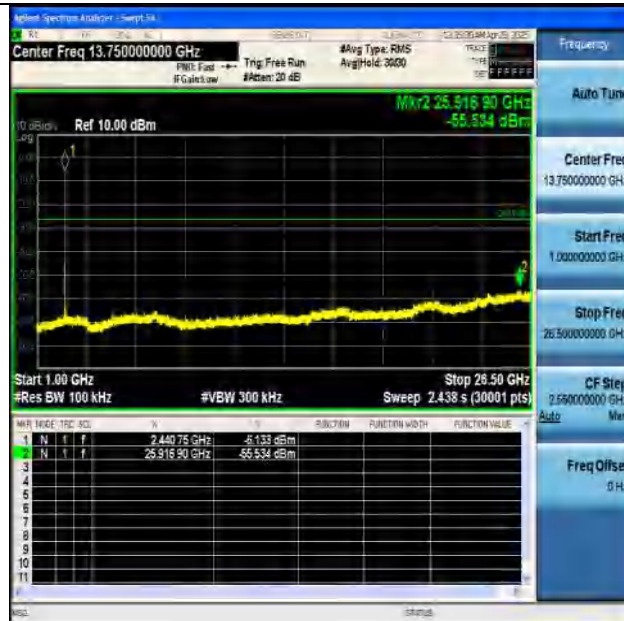
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DH5-Ant1-2441-0~Reference-PASS



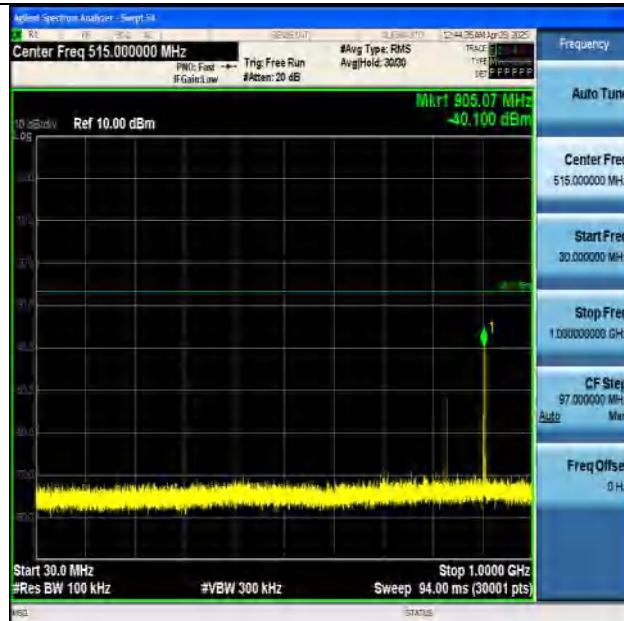
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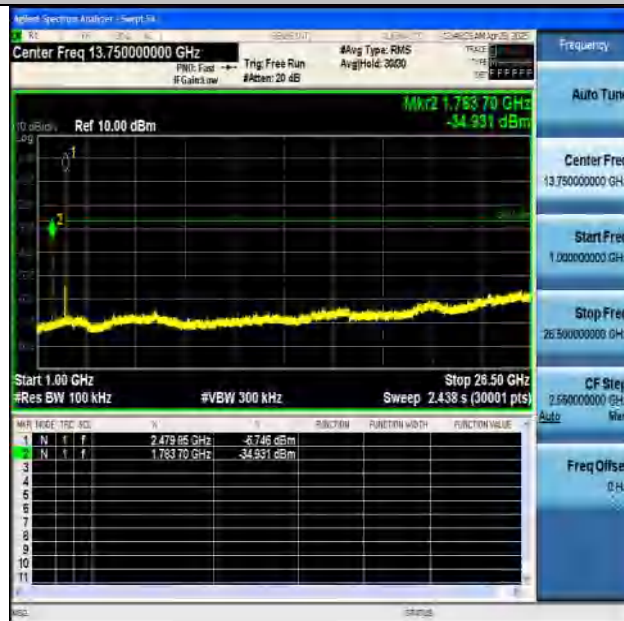
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DH5-Ant1-2480-0~Reference-PASS



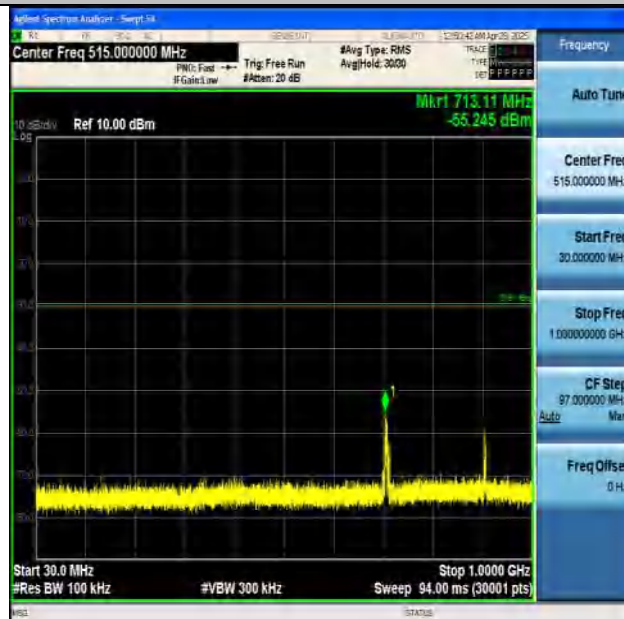
DH5-Ant1-2480-30~1000-PASS



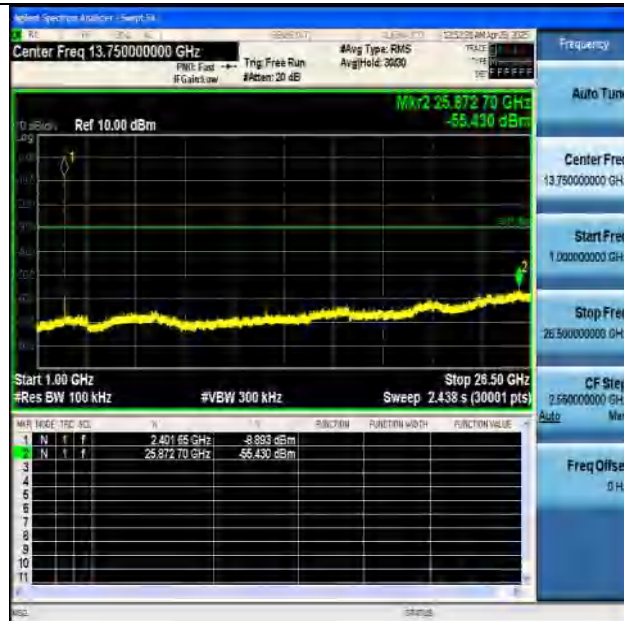
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2DH5-Ant1-2402-0~Reference-PASS



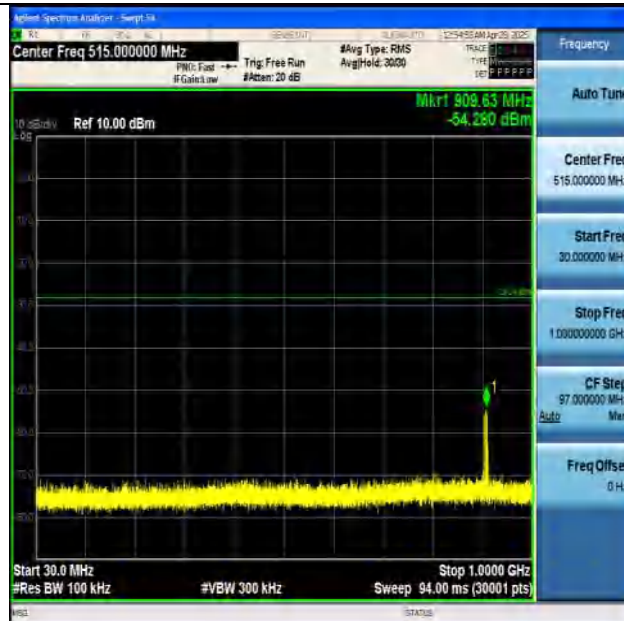
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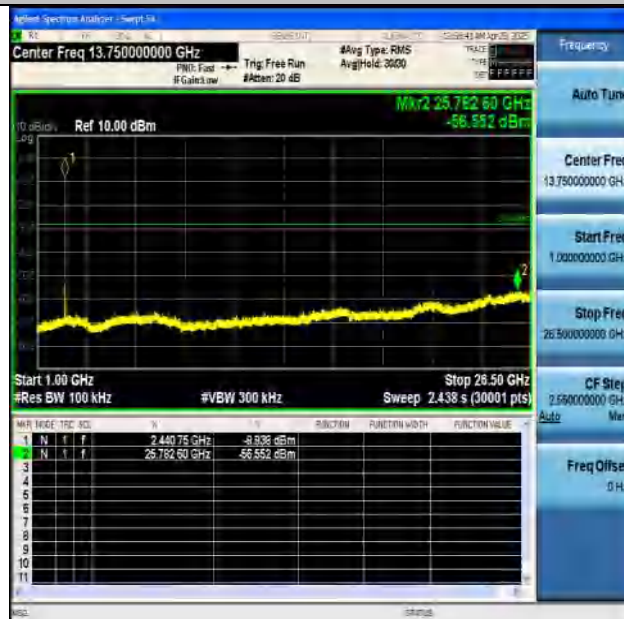
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2DH5-Ant1-2441-30~1000-PASS



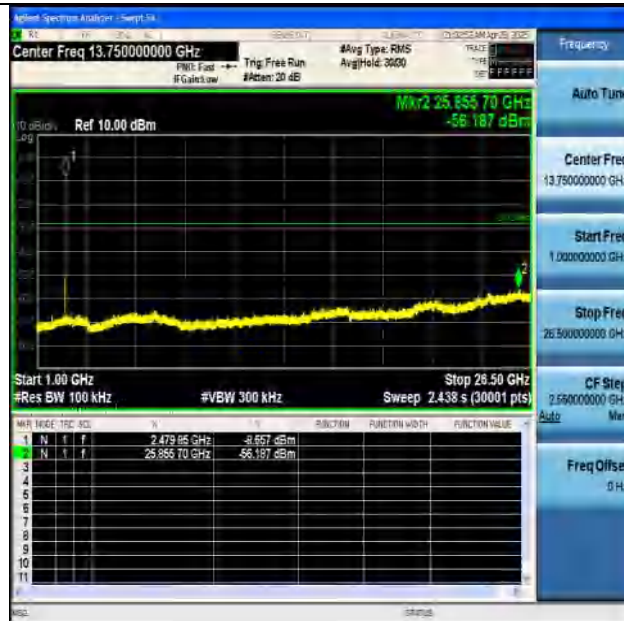
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2DH5-Ant1-2480-0~Reference-PASS



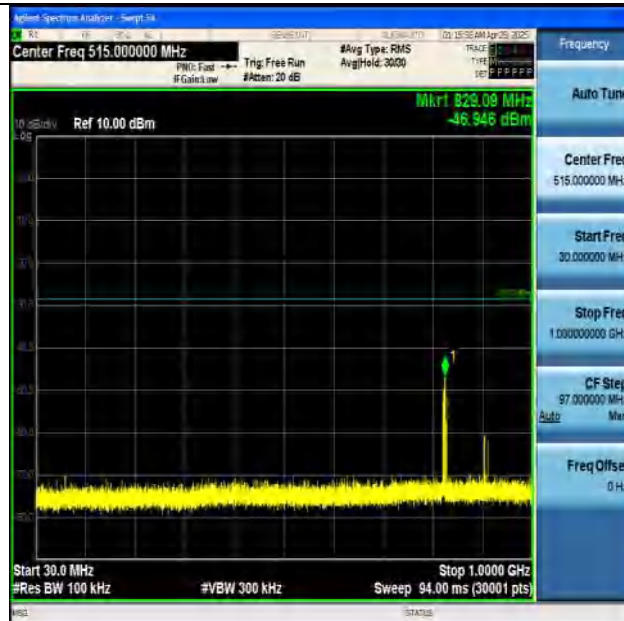
2DH5-Ant1-2480-30~1000-PASS



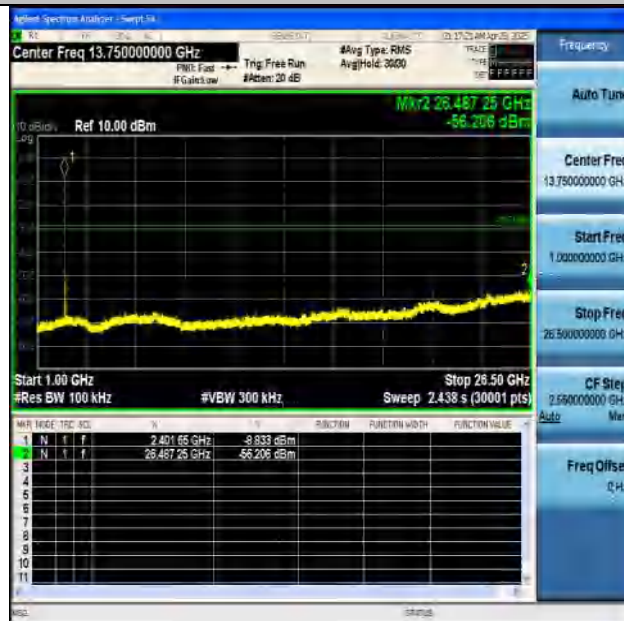
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3DH5-Ant1-2402-0~Reference-PASS



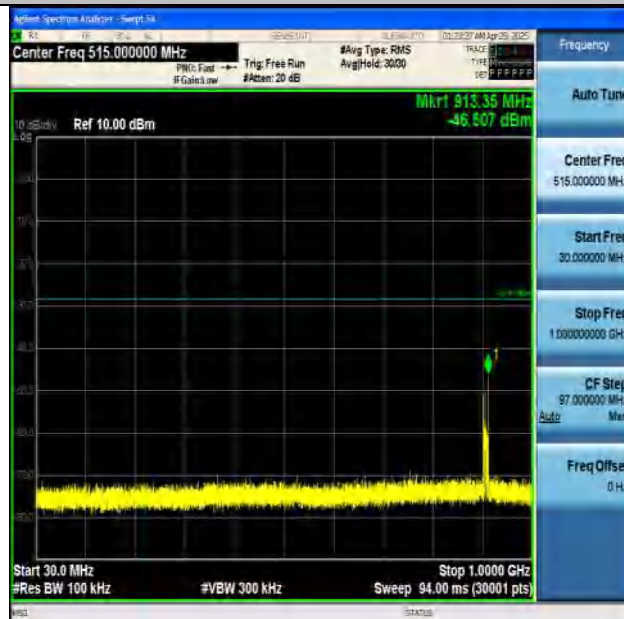
3DH5-Ant1-2402-30~1000-PASS



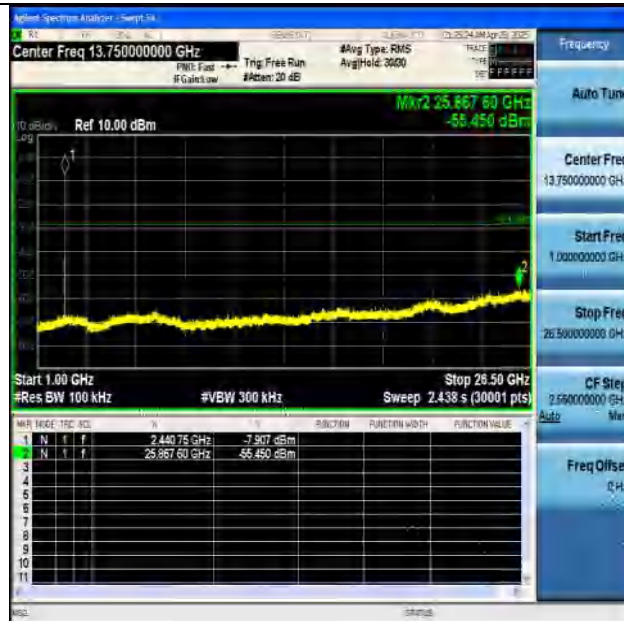
3DH5-Ant1-2402-1000~26500-PASS



3DH5-Ant1-2441-0~Reference-PASS



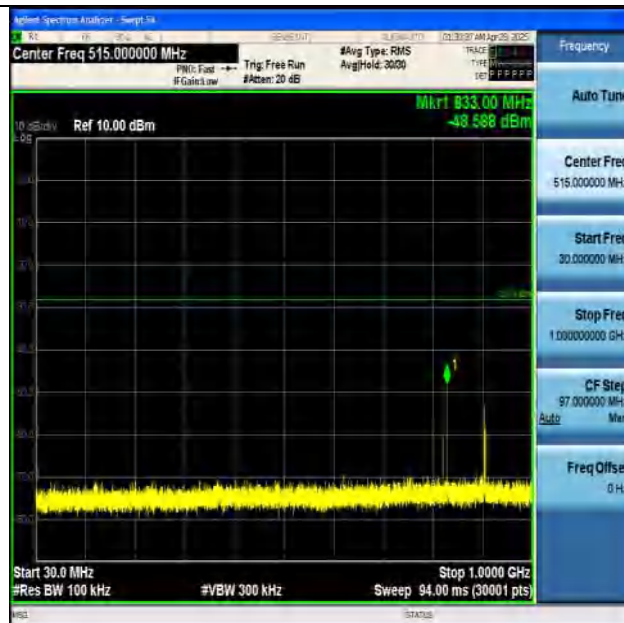
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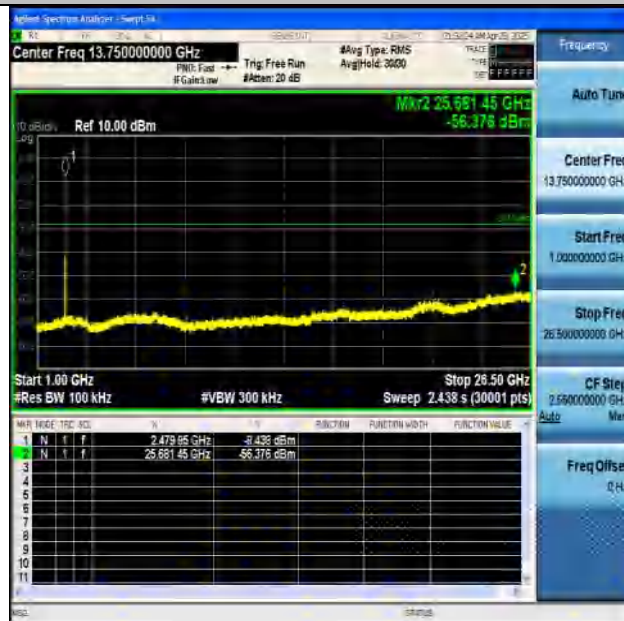
3DH5-Ant1-2441-1000~26500-PASS



3DH5-Ant1-2480-0~Reference-PASS



3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~26500-PASS

Appendix A.7: 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.

30 MHz - 1GHz



Dongguan Lepont Testing Service Co., Ltd.

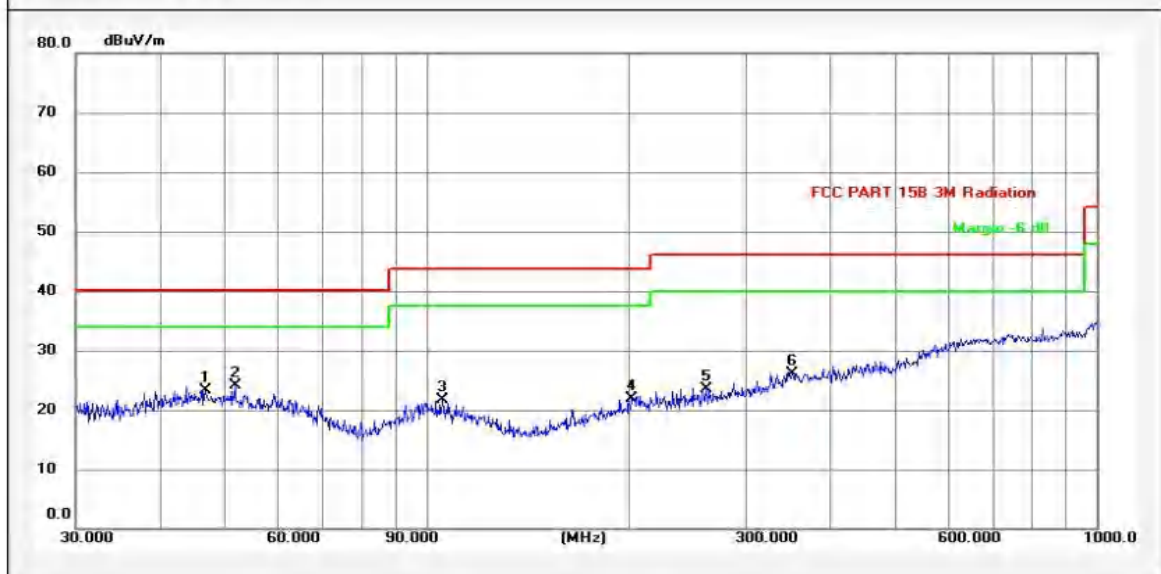
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.2 (C) / 55 %RH/ 1014
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 3DH5-2480MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.8301	14.65	8.67	23.32	40.00	-16.68	QP		
2	51.8430	14.23	9.79	24.02	40.00	-15.98	QP	*	
3	105.6414	12.27	9.43	21.70	43.50	-21.80	QP		
4	202.1004	13.07	8.79	21.86	43.50	-21.64	QP		
5	261.9751	13.79	9.81	23.60	46.00	-22.40	QP		
6	351.7078	16.87	9.22	26.09	46.00	-19.91	QP		

Note: Level=Reading+Factor, Over=Level-Limit.
MK.: * Maximum data x: Over limit !: Over margin

File: 30-1GData :#18





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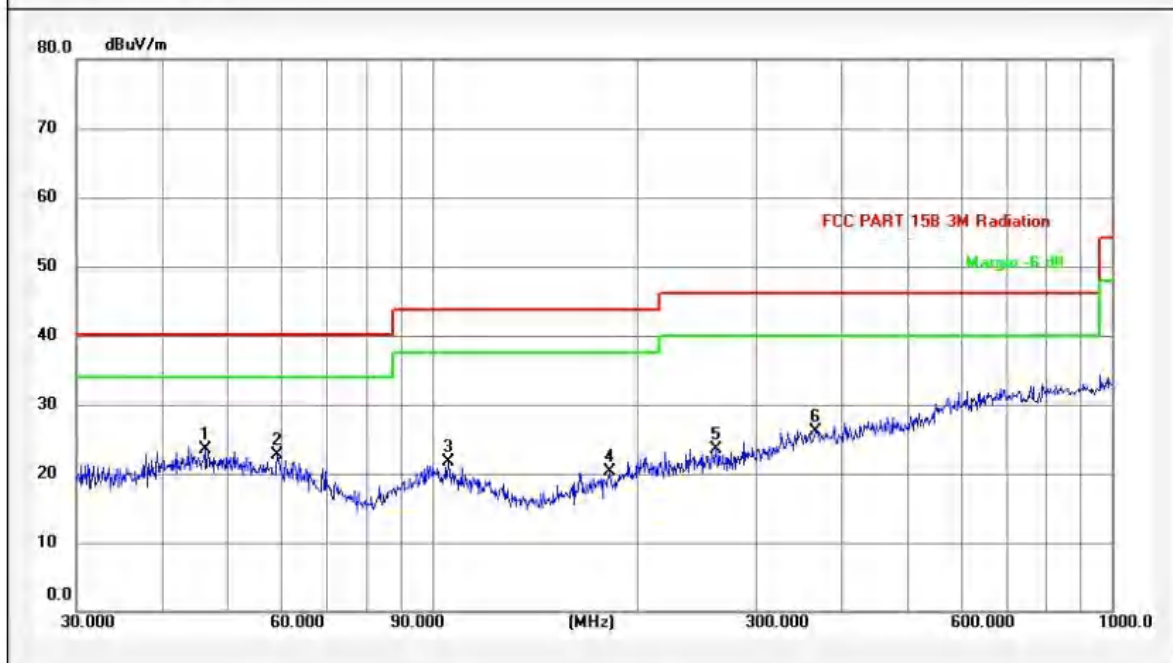
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2480MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.3402	14.68	8.74	23.42	40.00	-16.58	QP	*	
2	59.2323	13.47	9.32	22.79	40.00	-17.21	QP		
3	105.6414	12.27	9.43	21.70	43.50	-21.80	QP		
4	182.5592	11.26	8.96	20.22	43.50	-23.28	QP		
5	261.9750	13.79	9.81	23.60	46.00	-22.40	QP		
6	366.8231	16.91	9.18	26.09	46.00	-19.91	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1G\data :#17





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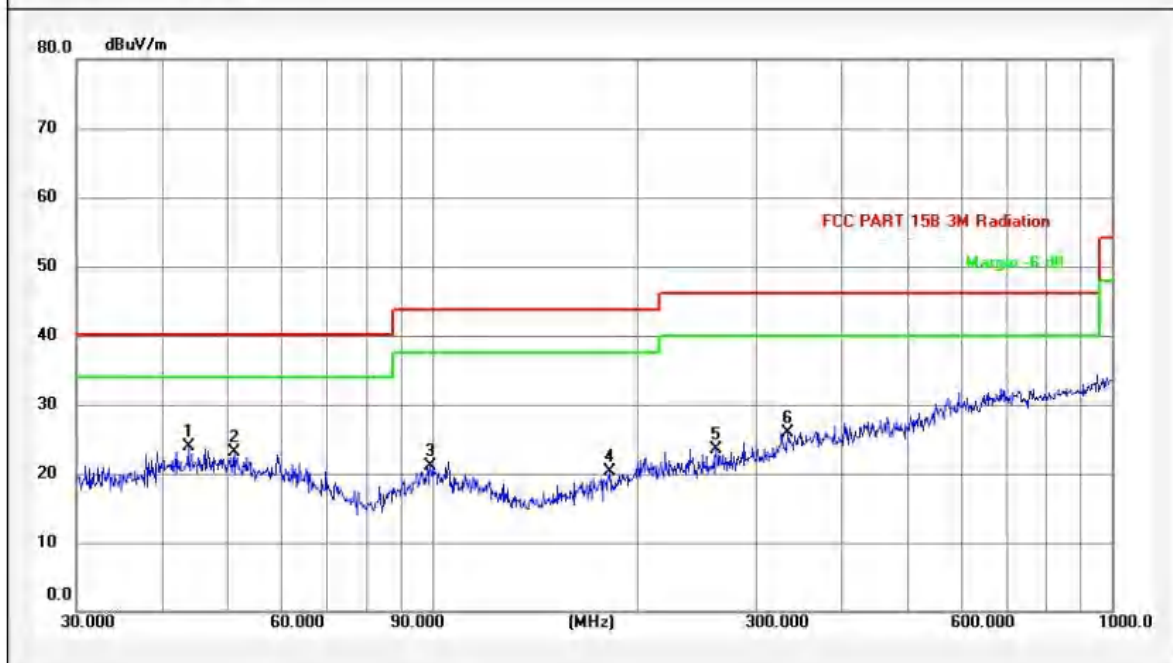
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2441MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	43.8119	14.47	9.35	23.82	40.00	-16.18	QP	*	
2	51.3004	14.28	8.81	23.09	40.00	-16.91	QP		
3	99.5279	12.54	8.64	21.18	43.50	-22.32	QP		
4	182.5592	11.26	8.96	20.22	43.50	-23.28	QP		
5	261.9750	13.79	9.81	23.60	46.00	-22.40	QP		
6	333.6865	16.17	9.66	25.83	46.00	-20.17	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1G\data :#16





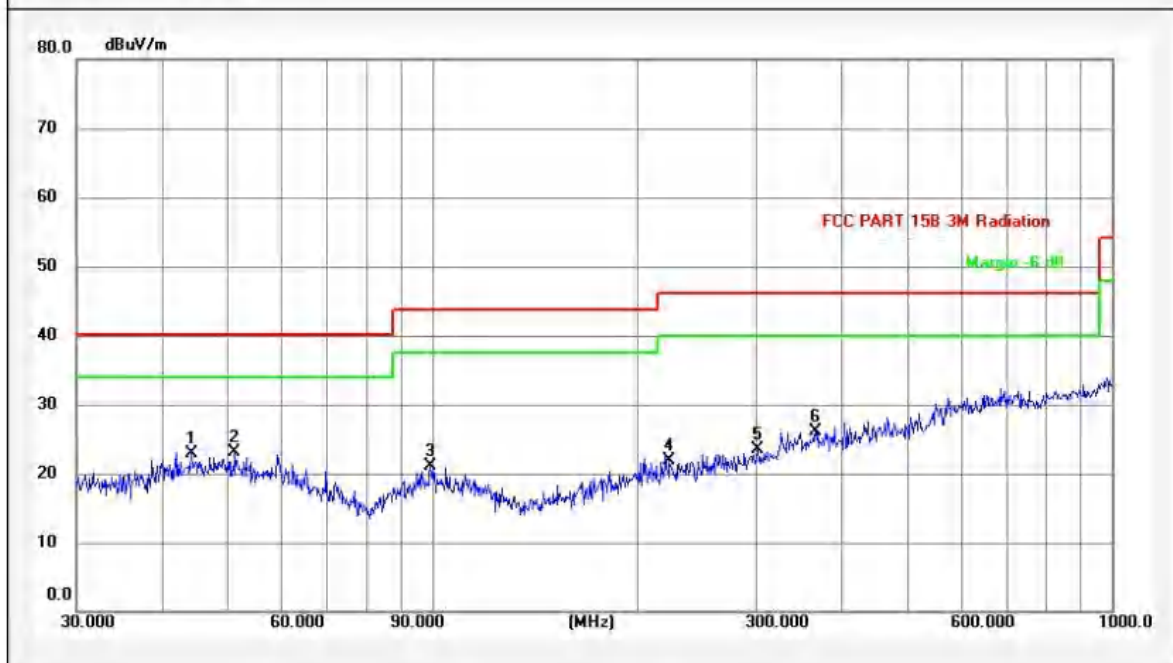
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.2 (C) / 55 %RH/ 1014
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 3DH5-2441MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	44.2751	14.60	8.21	22.81	40.00	-17.19	QP		
2	51.3004	14.28	8.81	23.09	40.00	-16.91	QP	*	
3	99.5279	12.54	8.64	21.18	43.50	-22.32	QP		
4	223.7333	13.26	8.68	21.94	46.00	-24.06	QP		
5	301.4223	14.79	8.64	23.43	46.00	-22.57	QP		
6	366.8231	16.91	9.18	26.09	46.00	-19.91	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#15





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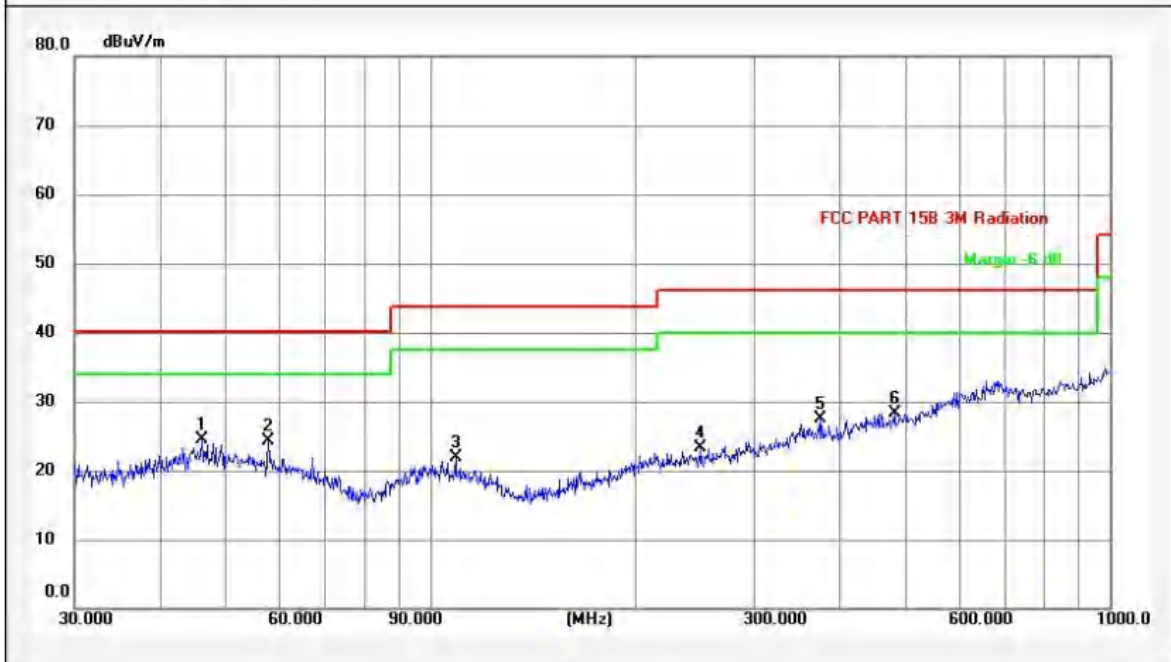
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.1779	14.70	9.87	24.57	40.00	-15.43	QP	*	
2	57.7961	13.62	10.62	24.24	40.00	-15.76	QP		
3	109.0284	12.06	9.91	21.97	43.50	-21.53	QP		
4	250.3009	13.50	9.76	23.26	46.00	-22.74	QP		
5	375.9384	16.94	10.49	27.43	46.00	-18.57	QP		
6	482.2155	18.21	10.09	28.30	46.00	-17.70	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK: *:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#14





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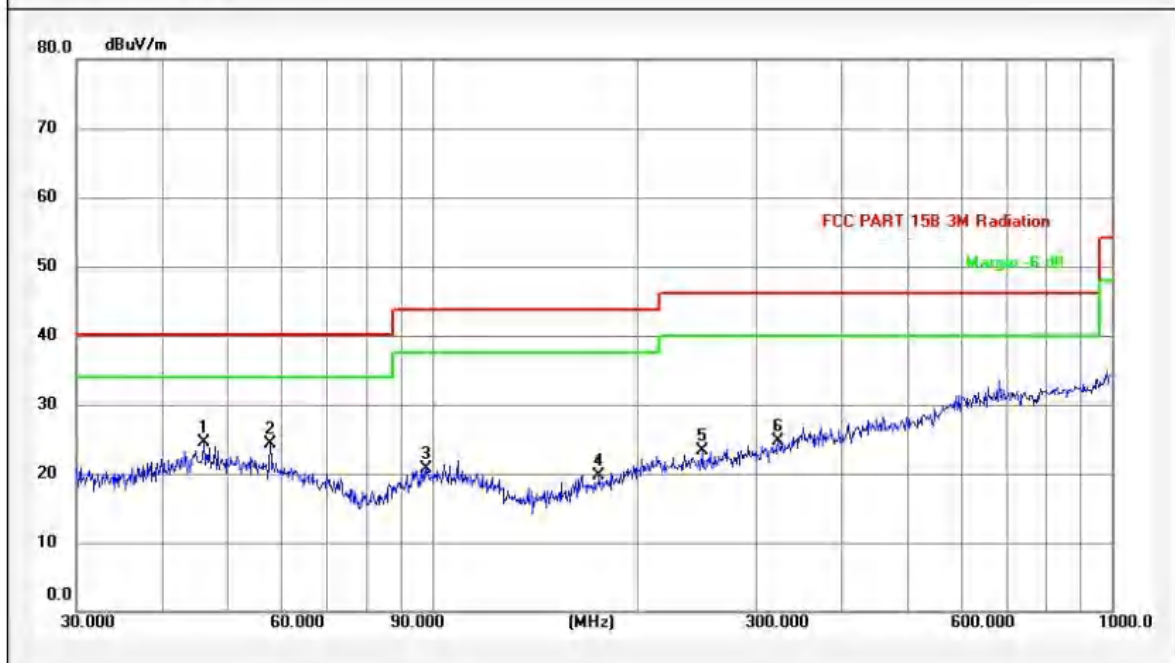
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.1779	14.70	9.87	24.57	40.00	-15.43	QP	*	
2	57.7961	13.62	10.62	24.24	40.00	-15.76	QP		
3	98.1418	12.28	8.40	20.68	43.50	-22.82	QP		
4	176.2684	11.05	8.57	19.62	43.50	-23.88	QP		
5	250.3009	13.50	9.76	23.26	46.00	-22.74	QP		
6	323.3201	15.73	8.89	24.62	46.00	-21.38	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#13





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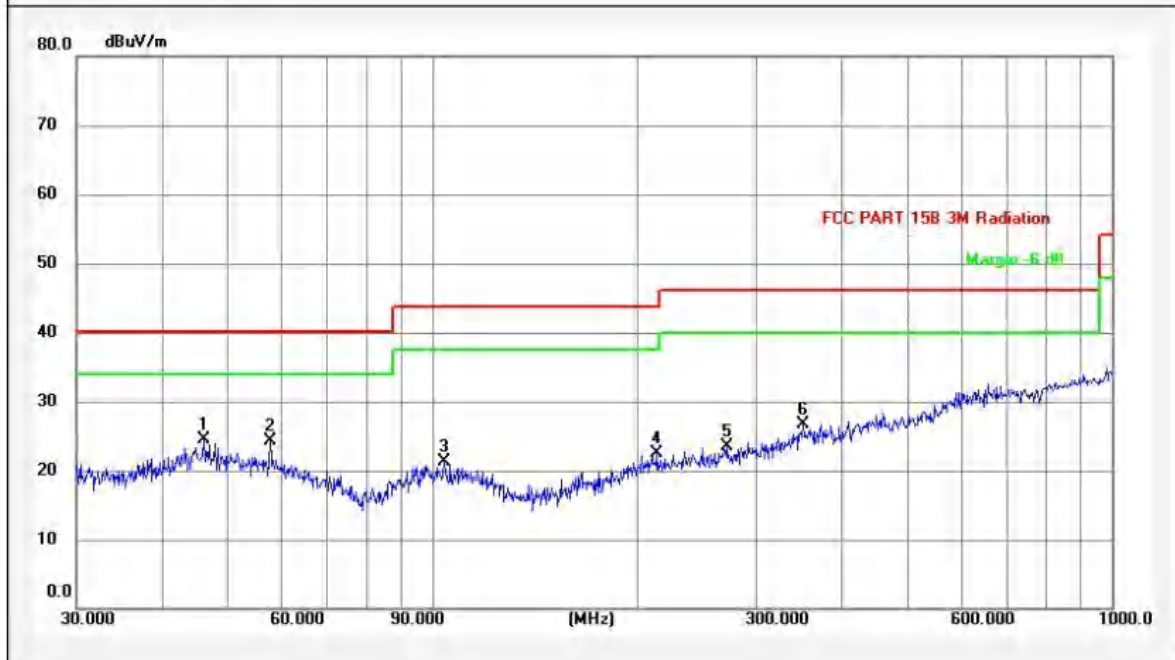
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2480MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.1779	14.70	9.87	24.57	40.00	-15.43	QP	*	
2	57.7961	13.62	10.62	24.24	40.00	-15.76	QP		
3	104.1701	12.37	8.92	21.29	43.50	-22.21	QP		
4	214.5141	13.18	9.35	22.53	43.50	-20.97	QP		
5	271.3245	14.02	9.46	23.48	46.00	-22.52	QP		
6	351.7078	16.87	9.83	26.70	46.00	-19.30	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK: *:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#12





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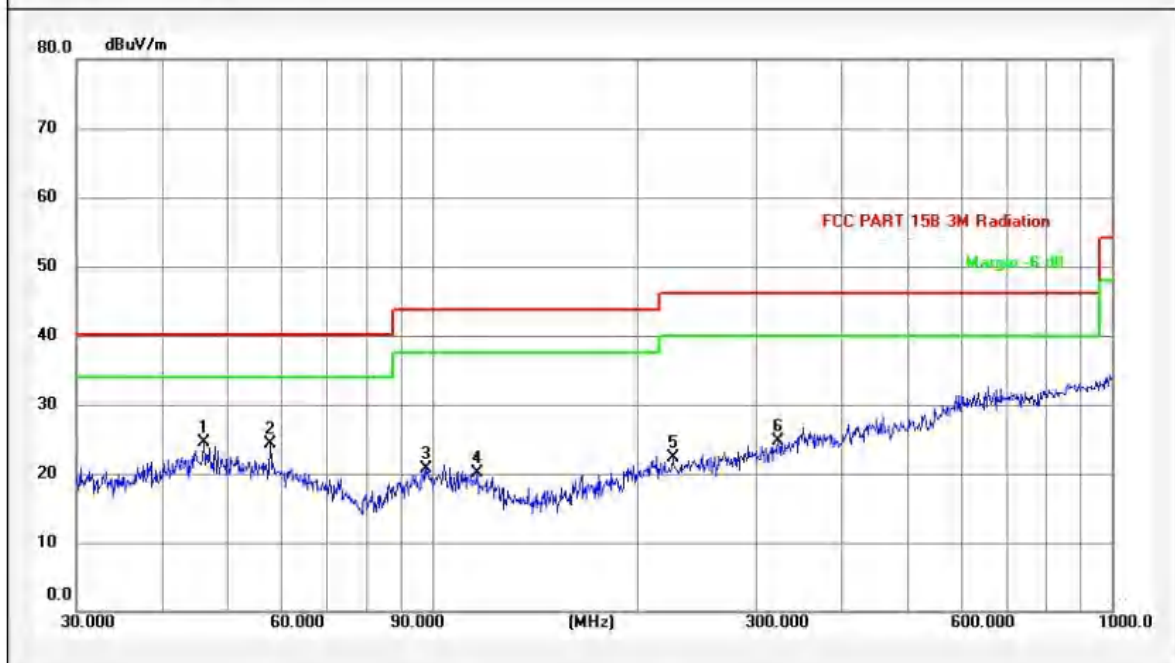
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2480MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.1779	14.70	9.87	24.57	40.00	-15.43	QP	*	
2	57.7961	13.62	10.62	24.24	40.00	-15.76	QP		
3	98.1418	12.28	8.40	20.68	43.50	-22.82	QP		
4	116.5400	11.59	8.42	20.01	43.50	-23.49	QP		
5	226.0994	13.28	8.99	22.27	46.00	-23.73	QP		
6	323.3201	15.73	8.89	24.62	46.00	-21.38	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#11





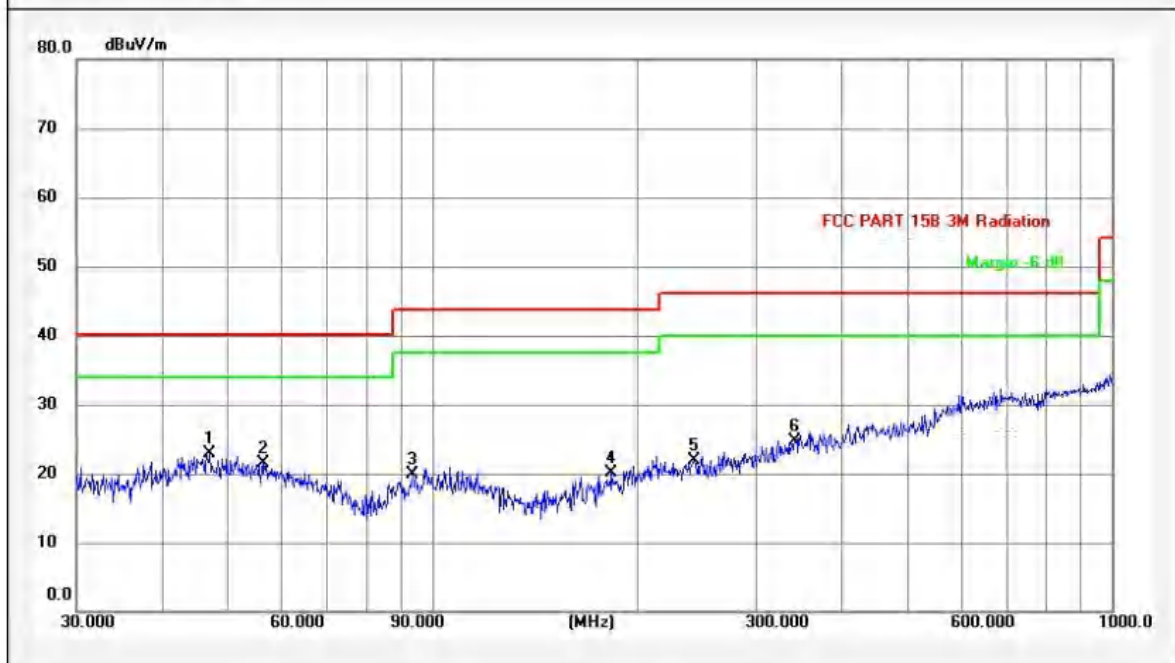
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.2 (C) / 55 %RH/ 1014
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2DH5-2441MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	47.1597	14.63	8.24	22.87	40.00	-17.13	QP	*	
2	56.3947	13.76	7.79	21.55	40.00	-18.45	QP		
3	93.4402	11.39	8.52	19.91	43.50	-23.59	QP		
4	183.8438	11.29	8.73	20.02	43.50	-23.48	QP		
5	242.5252	13.42	8.42	21.84	46.00	-24.16	QP		
6	341.9786	16.52	8.27	24.79	46.00	-21.21	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK: *:Maximum data x:Over limit !:Over margin

File: 30-1G\data :#10





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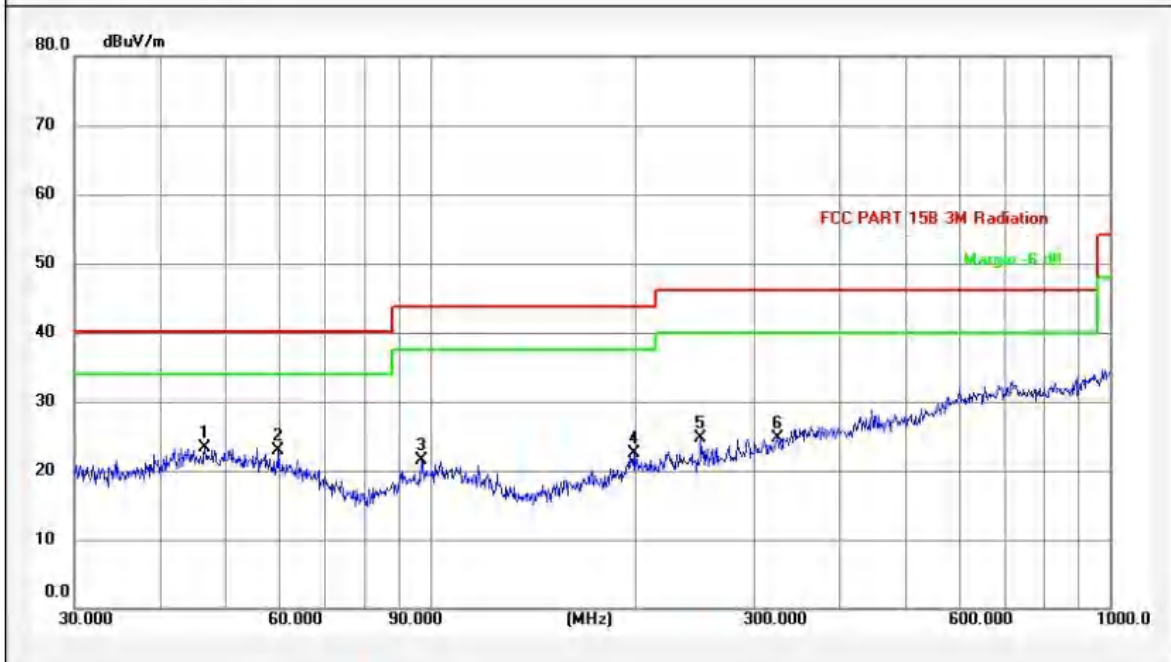
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2441MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.6662	14.67	8.59	23.26	40.00	-16.74	QP	*	
2	59.8588	13.41	9.52	22.93	40.00	-17.07	QP		
3	97.1148	12.09	9.41	21.50	43.50	-22.00	QP		
4	199.2855	12.94	9.55	22.49	43.50	-21.01	QP		
5	250.3009	13.50	11.29	24.79	46.00	-21.21	QP		
6	324.4560	15.78	9.00	24.78	46.00	-21.22	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#9





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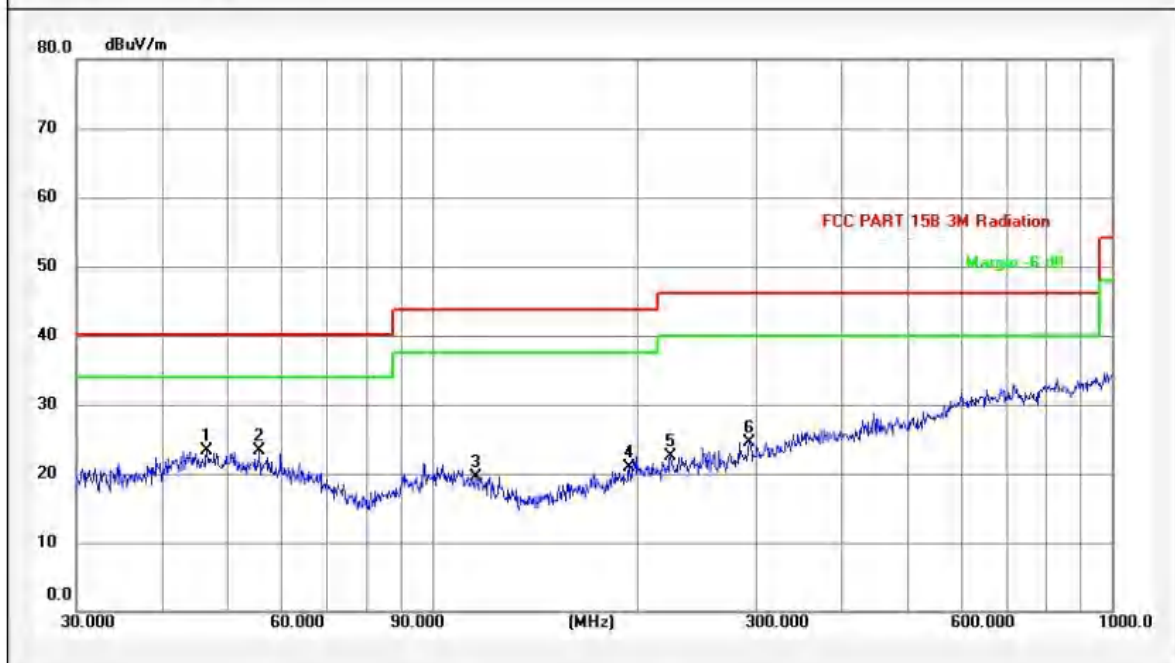
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.6662	14.67	8.59	23.26	40.00	-16.74	QP		
2	55.8046	13.82	9.49	23.31	40.00	-16.69	QP	*	
3	116.1320	11.61	7.92	19.53	43.50	-23.97	QP		
4	195.1363	12.26	8.69	20.95	43.50	-22.55	QP		
5	224.5192	13.27	9.33	22.60	46.00	-23.40	QP		
6	293.0842	14.55	10.03	24.58	46.00	-21.42	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#8





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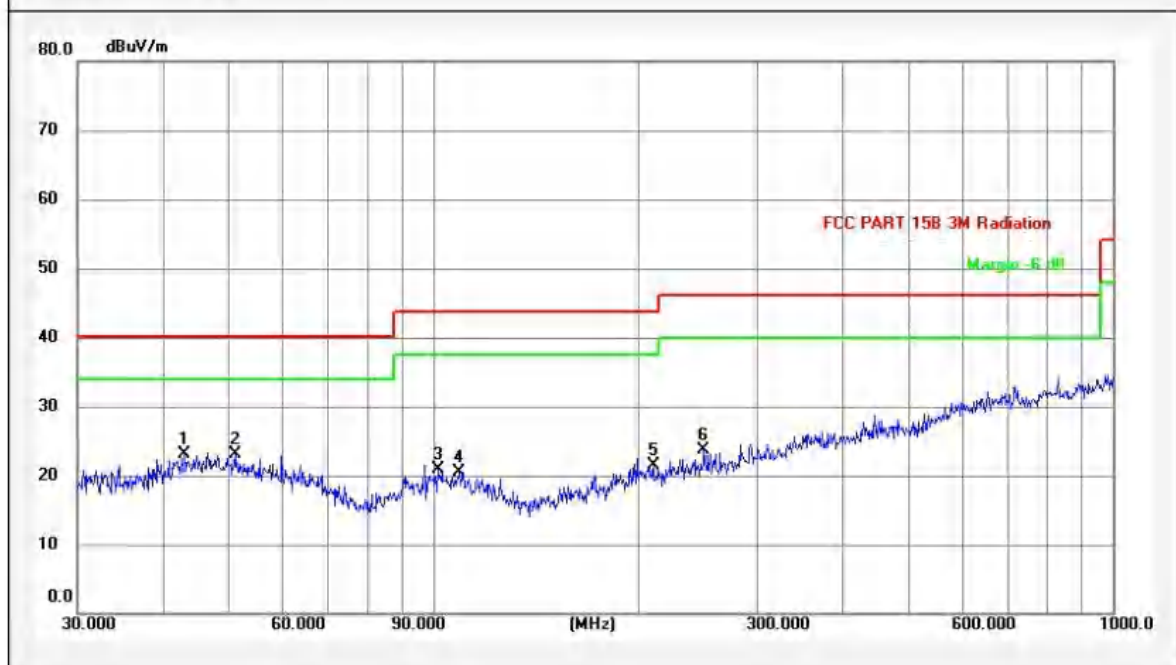
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	43.0504	14.27	8.80	23.07	40.00	-16.93	QP		
2	51.1208	14.30	8.81	23.11	40.00	-16.89	QP	*	
3	101.6443	12.52	8.40	20.92	43.50	-22.58	QP		
4	109.4116	12.04	8.52	20.56	43.50	-22.94	QP		
5	210.7860	13.15	8.32	21.47	43.50	-22.03	QP		
6	250.3009	13.50	10.27	23.77	46.00	-22.23	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#7





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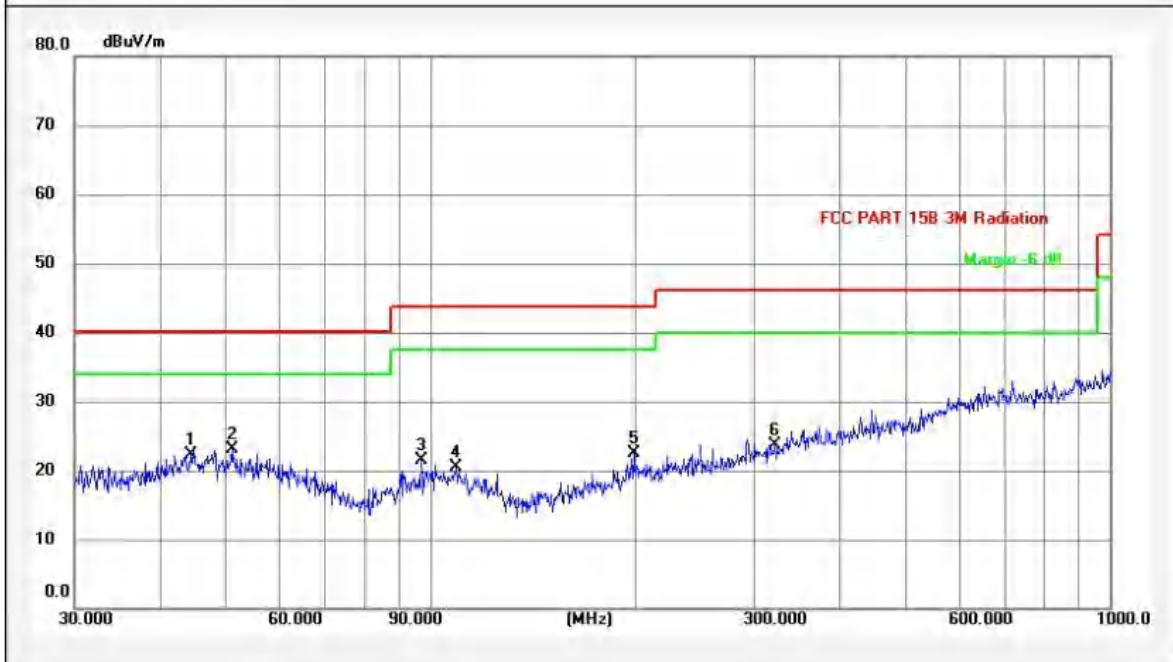
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2480MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	44.4307	14.64	7.67	22.31	40.00	-17.69	QP		
2	51.1208	14.30	8.81	23.11	40.00	-16.89	QP	*	
3	97.1148	12.09	9.41	21.50	43.50	-22.00	QP		
4	109.4116	12.04	8.52	20.56	43.50	-22.94	QP		
5	199.2855	12.94	9.55	22.49	43.50	-21.01	QP		
6	322.1884	15.68	8.12	23.80	46.00	-22.20	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#6





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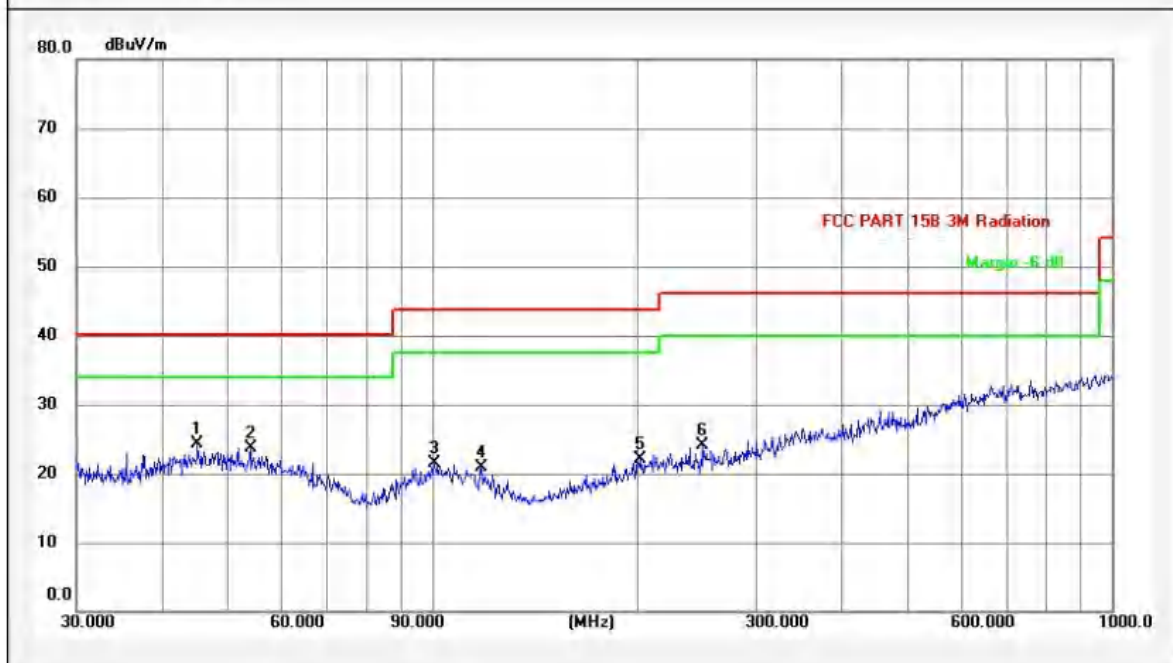
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2480MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	45.2165	14.77	9.45	24.22	40.00	-15.78	QP	*	
2	54.0709	13.99	9.78	23.77	40.00	-16.23	QP		
3	100.9338	12.57	9.02	21.59	43.50	-21.91	QP		
4	118.1860	11.49	9.50	20.99	43.50	-22.51	QP		
5	202.1004	13.07	8.97	22.04	43.50	-21.46	QP		
6	250.3009	13.50	10.70	24.20	46.00	-21.80	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: 30-1GIData :#5





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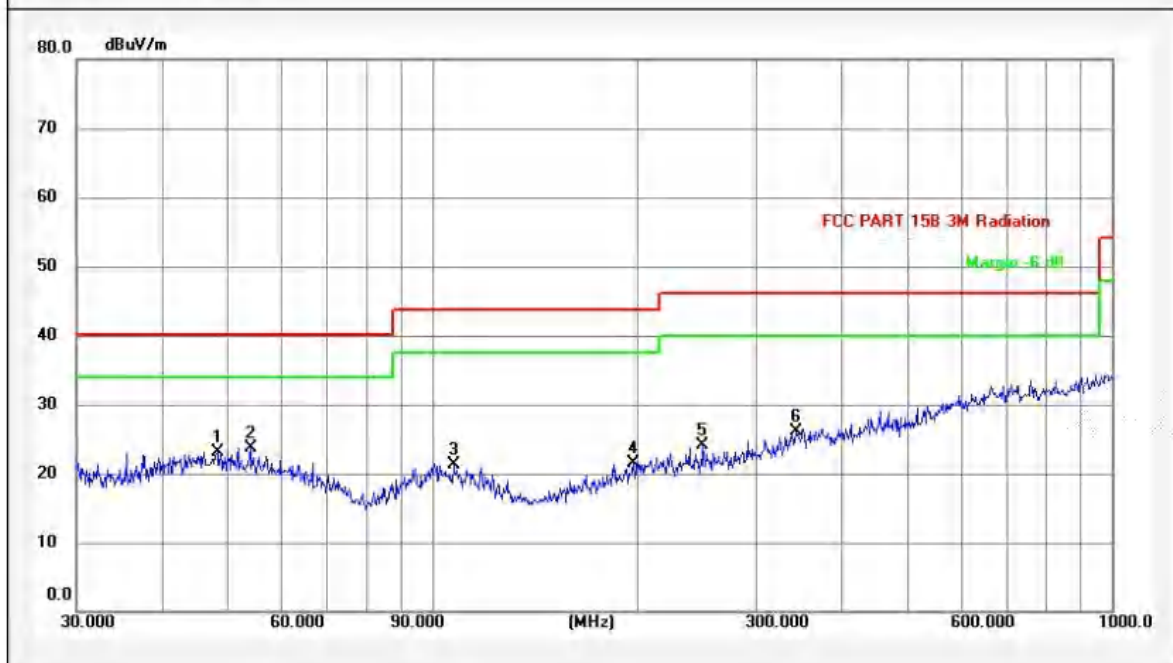
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2441MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	48.3316	14.53	8.52	23.05	40.00	-16.95	QP		
2	54.0709	13.99	9.78	23.77	40.00	-16.23	QP	*	
3	107.5100	12.16	9.10	21.26	43.50	-22.24	QP		
4	197.8926	12.70	8.85	21.55	43.50	-21.95	QP		
5	250.3009	13.50	10.70	24.20	46.00	-21.80	QP		
6	343.1800	16.57	9.60	26.17	46.00	-19.83	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#4





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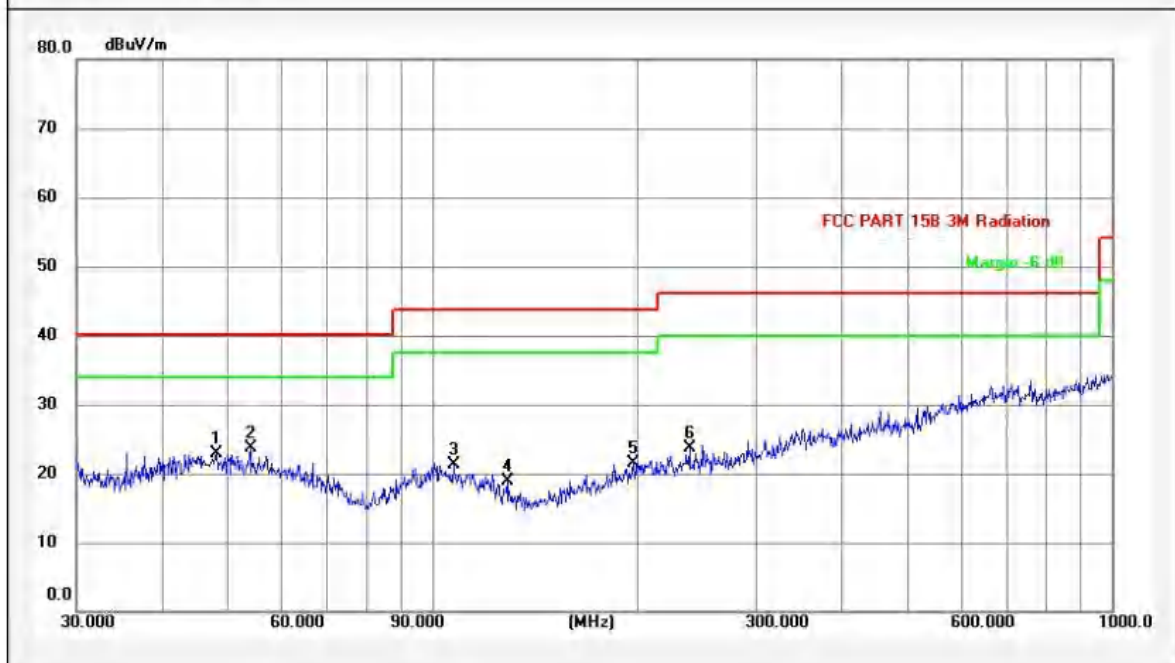
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2441MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	48.1625	14.55	8.31	22.86	40.00	-17.14	QP		
2	54.0709	13.99	9.78	23.77	40.00	-16.23	QP	*	
3	107.5100	12.16	9.10	21.26	43.50	-22.24	QP		
4	129.0144	9.86	8.97	18.83	43.50	-24.67	QP		
5	197.8926	12.70	8.85	21.55	43.50	-21.95	QP		
6	239.1471	13.39	10.28	23.67	46.00	-22.33	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#3





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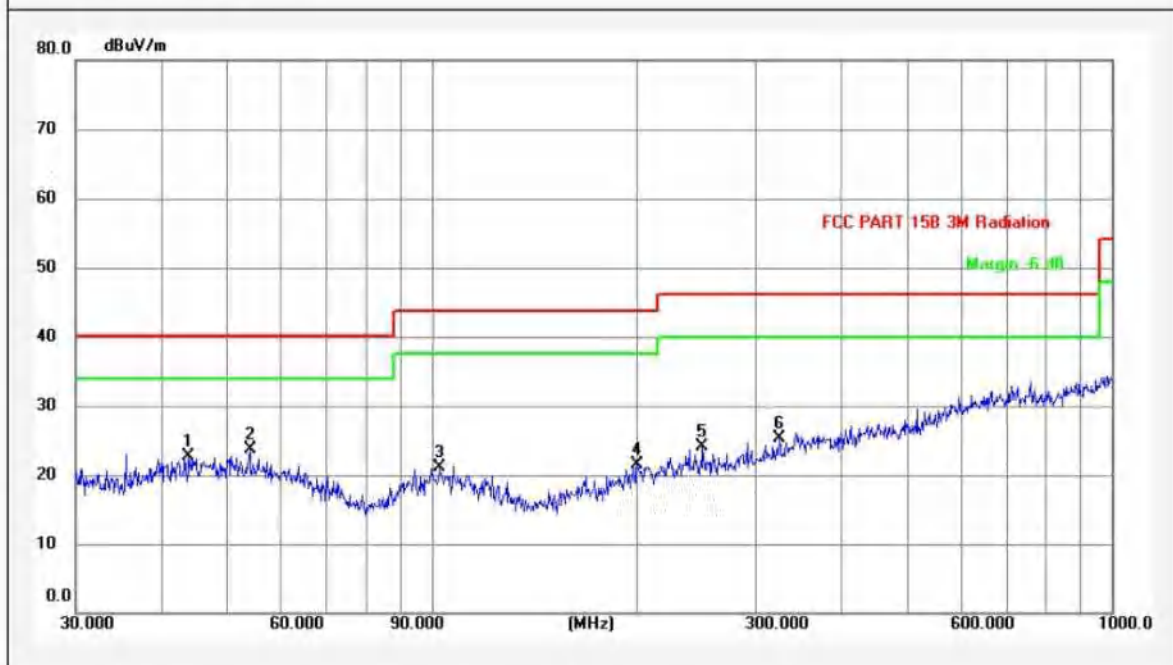
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	43.9658	14.51	8.23	22.74	40.00	-17.26	QP		
2	54.0710	13.99	9.78	23.77	40.00	-16.23	QP	*	
3	102.7192	12.46	8.58	21.04	43.50	-22.46	QP		
4	200.6880	13.06	8.37	21.43	43.50	-22.07	QP		
5	250.3011	13.50	10.70	24.20	46.00	-21.80	QP		
6	324.4560	15.78	9.57	25.35	46.00	-20.65	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin
File: 30-1GIData :#2





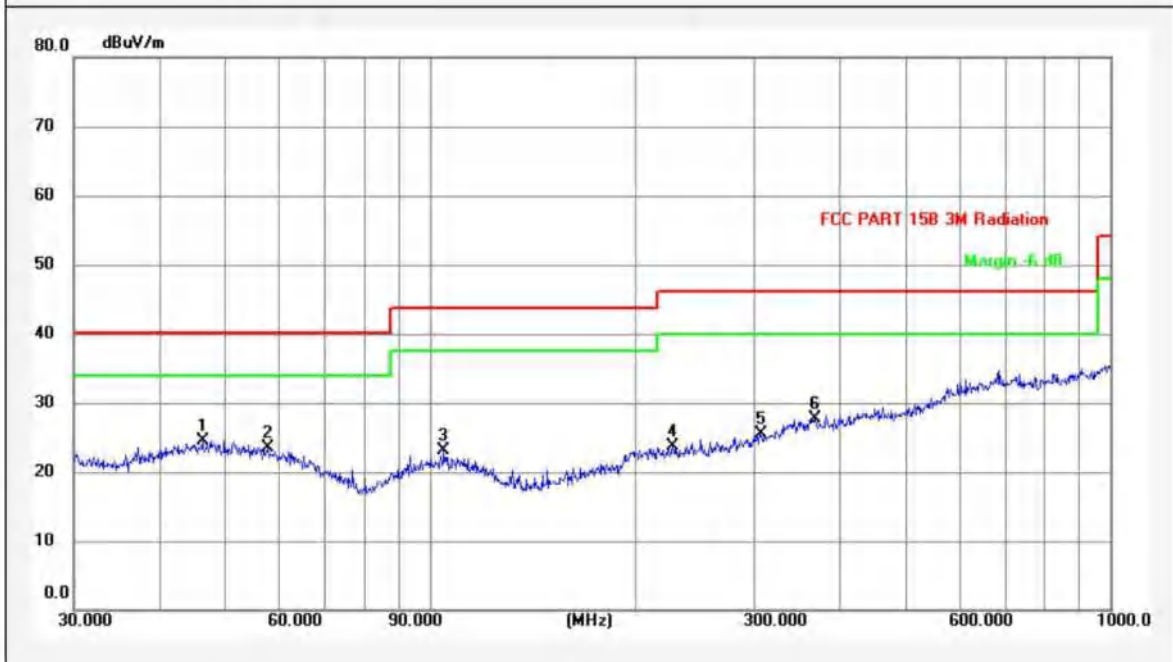
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.2 (C) / 55 %RH/ 1014
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.3402	14.68	9.76	24.44	40.00	-15.56	QP	*	
2	57.7961	13.62	9.79	23.41	40.00	-16.59	QP		
3	104.9031	12.32	10.85	23.17	43.50	-20.33	QP		
4	227.6905	13.29	10.47	23.76	46.00	-22.24	QP		
5	305.6800	14.97	10.54	25.51	46.00	-20.49	QP		
6	368.1116	16.92	10.86	27.78	46.00	-18.22	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin
File: 30-1G\data :#1



1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental



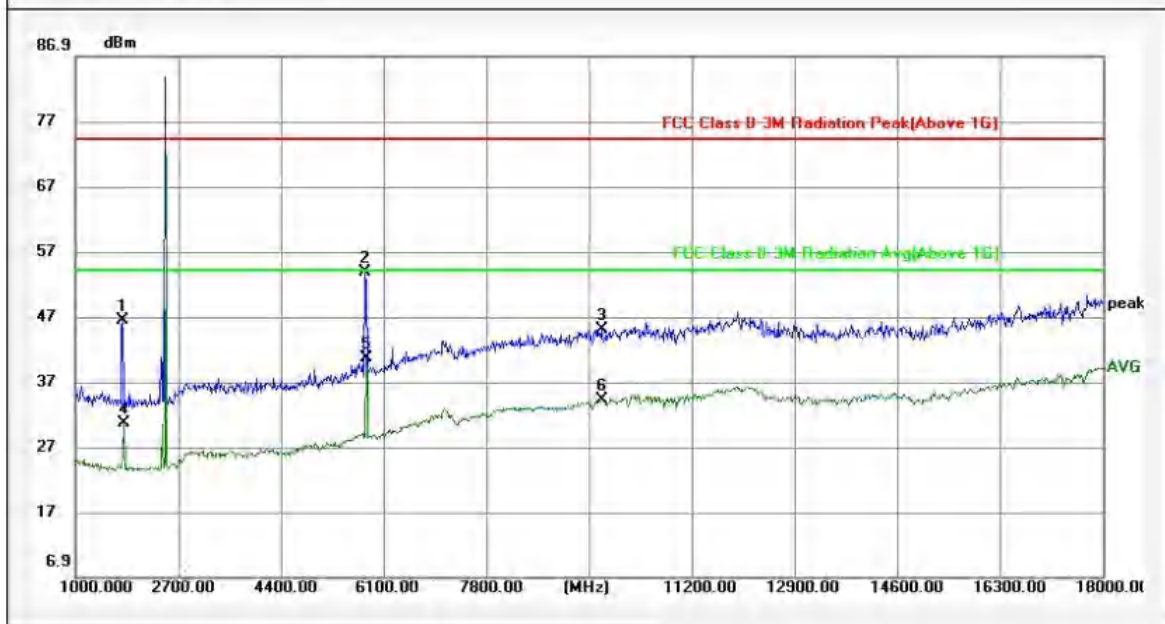
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:		Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1970	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	3DH5-2480MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	1782.000	-7.93	54.41	46.48	74.00	-27.52	peak		
2	5794.000	-0.69	54.49	53.80	74.00	-20.20	peak		
3	9704.000	4.33	40.67	45.00	74.00	-29.00	peak		
4	1799.000	-7.91	38.49	30.58	54.00	-23.42	AVG		
5	5811.000	-0.63	41.15	40.52	54.00	-13.48	AVG	*	
6	9704.000	4.33	29.80	34.13	54.00	-19.87	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#18





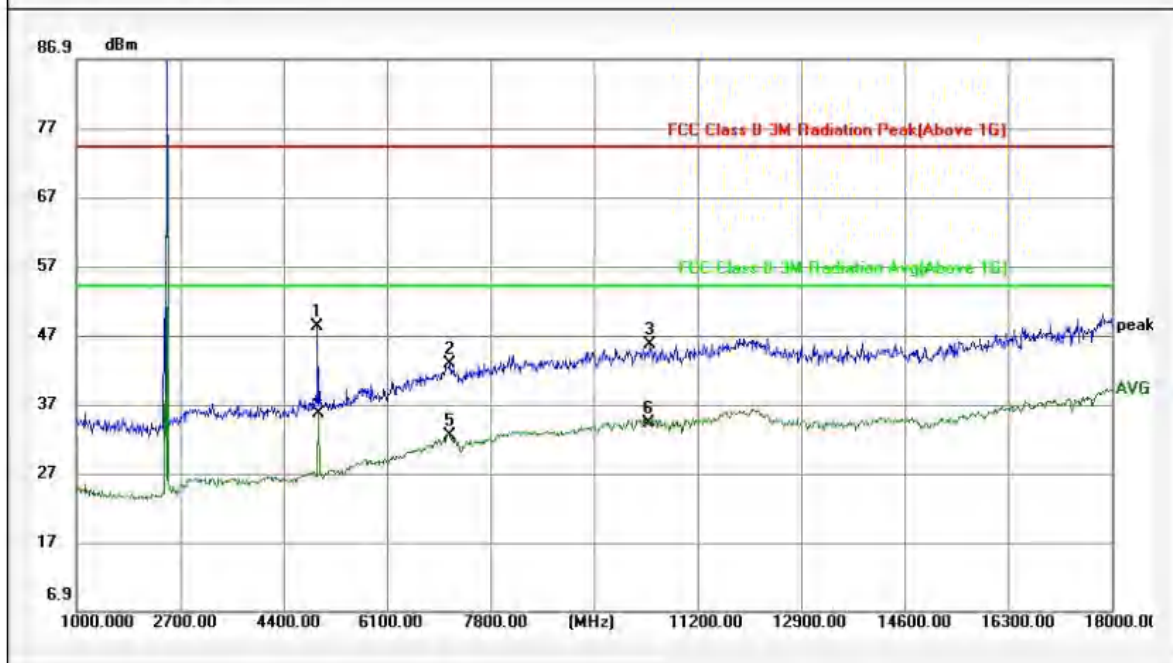
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:		Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1970	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	3DH5-2480MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	4961.000	-3.39	51.58	48.19	74.00	-25.81	peak		
2	7137.000	2.74	40.07	42.81	74.00	-31.19	peak		
3	10418.000	5.06	40.59	45.65	74.00	-28.35	peak		
4	4978.000	-3.40	38.92	35.52	54.00	-18.48	AVG	*	
5	7137.000	2.74	29.71	32.45	54.00	-21.55	AVG		
6	10384.000	5.01	29.29	34.30	54.00	-19.70	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#17





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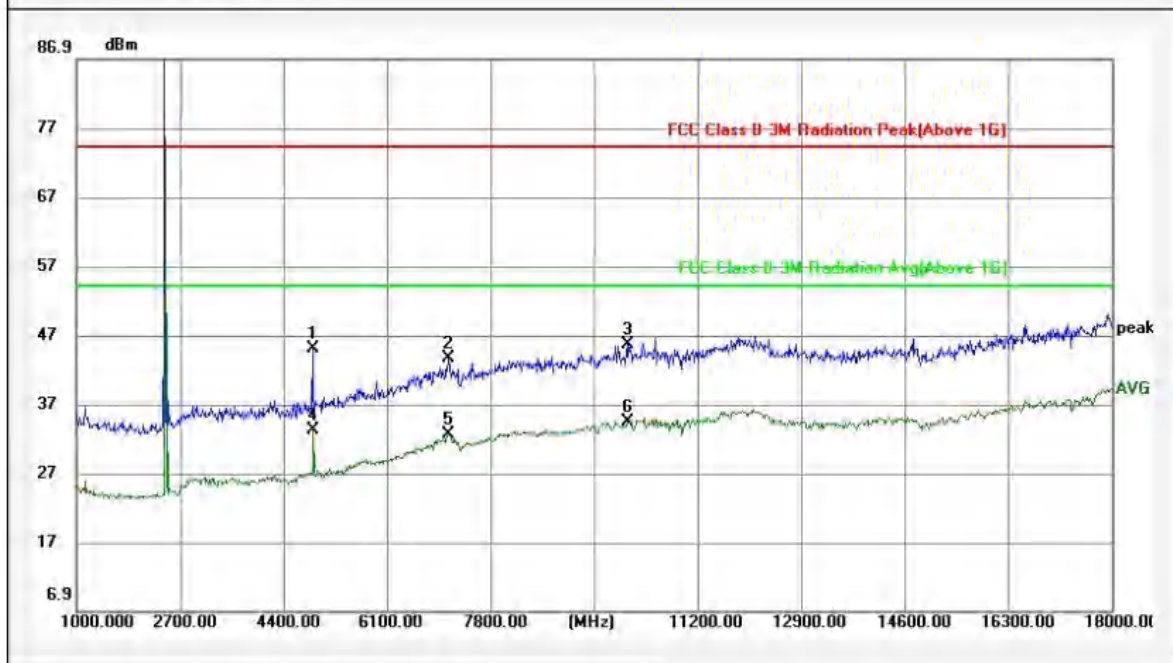
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2441MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	4876.000	-3.34	48.44	45.10	74.00	-28.90	peak		
2	7103.000	2.74	40.82	43.56	74.00	-30.44	peak		
3	10044.000	4.52	41.00	45.52	74.00	-28.48	peak		
4	4893.000	-3.34	36.45	33.11	54.00	-20.89	AVG		
5	7103.000	2.74	29.96	32.70	54.00	-21.30	AVG		
6	10061.000	4.55	29.86	34.41	54.00	-19.59	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#16





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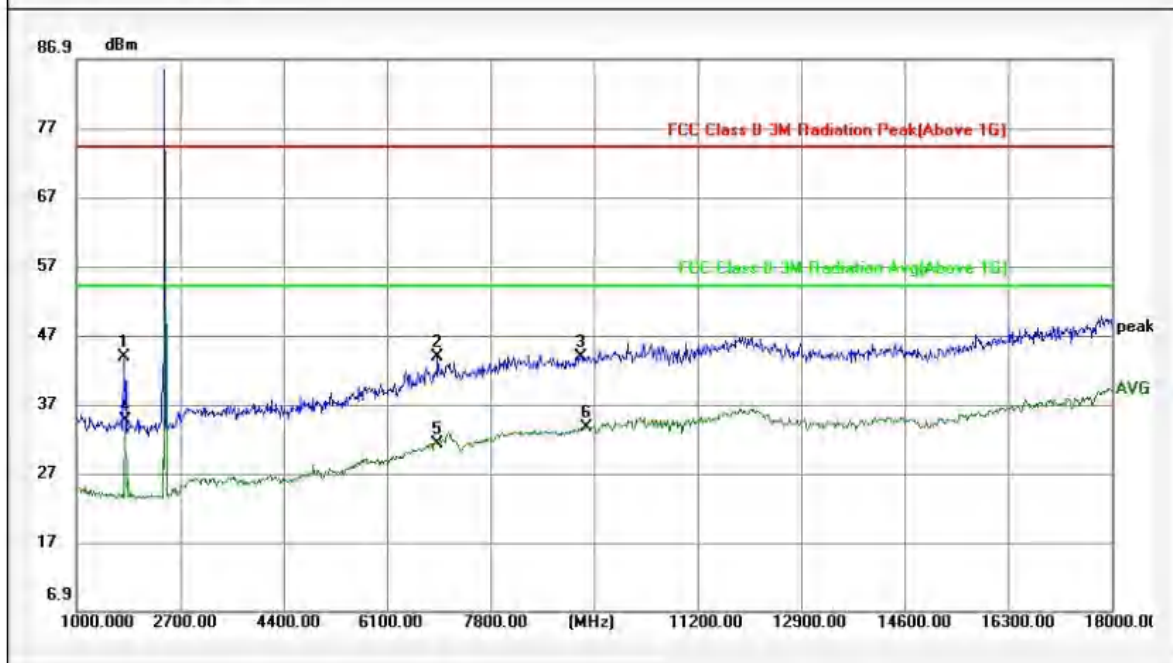
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2441MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	1782.000	-7.93	51.71	43.78	74.00	-30.22	peak		
2	6933.000	2.62	41.15	43.77	74.00	-30.23	peak		
3	9279.000	4.15	39.67	43.82	74.00	-30.18	peak		
4	1799.000	-7.91	42.42	34.51	54.00	-19.49	AVG	*	
5	6916.000	2.57	28.56	31.13	54.00	-22.87	AVG		
6	9364.000	4.18	29.37	33.55	54.00	-20.45	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#15





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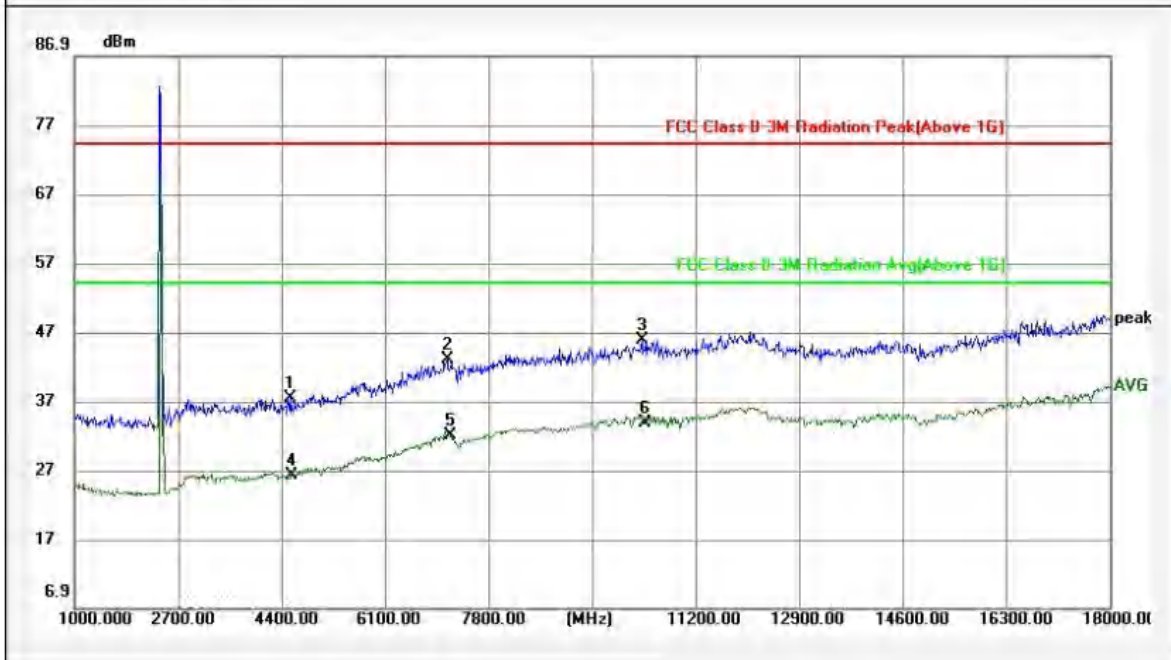
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	4553.000	-3.11	40.59	37.48	74.00	-36.52	peak		
2	7120.000	2.74	40.22	42.96	74.00	-31.04	peak		
3	10316.000	4.91	40.88	45.79	74.00	-28.21	peak		
4	4570.000	-3.12	29.24	26.12	54.00	-27.88	AVG		
5	7171.000	2.72	29.19	31.91	54.00	-22.09	AVG		
6	10367.000	4.98	28.73	33.71	54.00	-20.29	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#14





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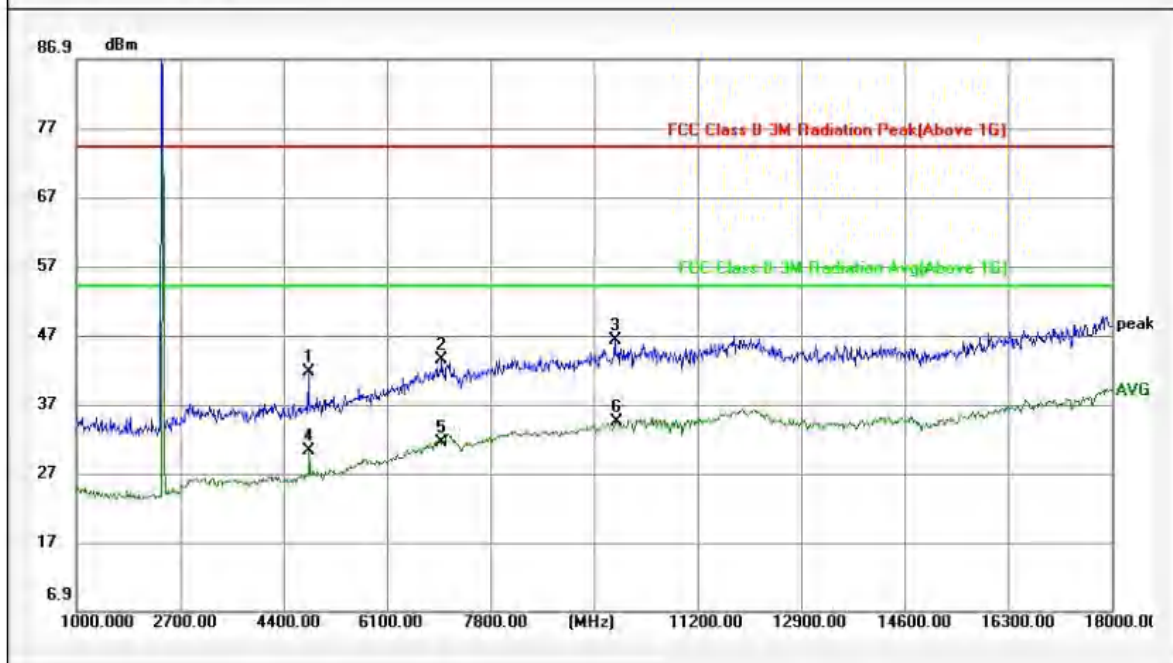
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	4808.000	-3.28	44.97	41.69	74.00	-32.31	peak		
2	7001.000	2.80	40.55	43.35	74.00	-30.65	peak		
3	9840.000	4.39	41.74	46.13	74.00	-27.87	peak		
4	4825.000	-3.29	33.51	30.22	54.00	-23.78	AVG		
5	7001.000	2.80	28.59	31.39	54.00	-22.61	AVG		
6	9874.000	4.41	29.98	34.39	54.00	-19.61	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK: *:Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#13





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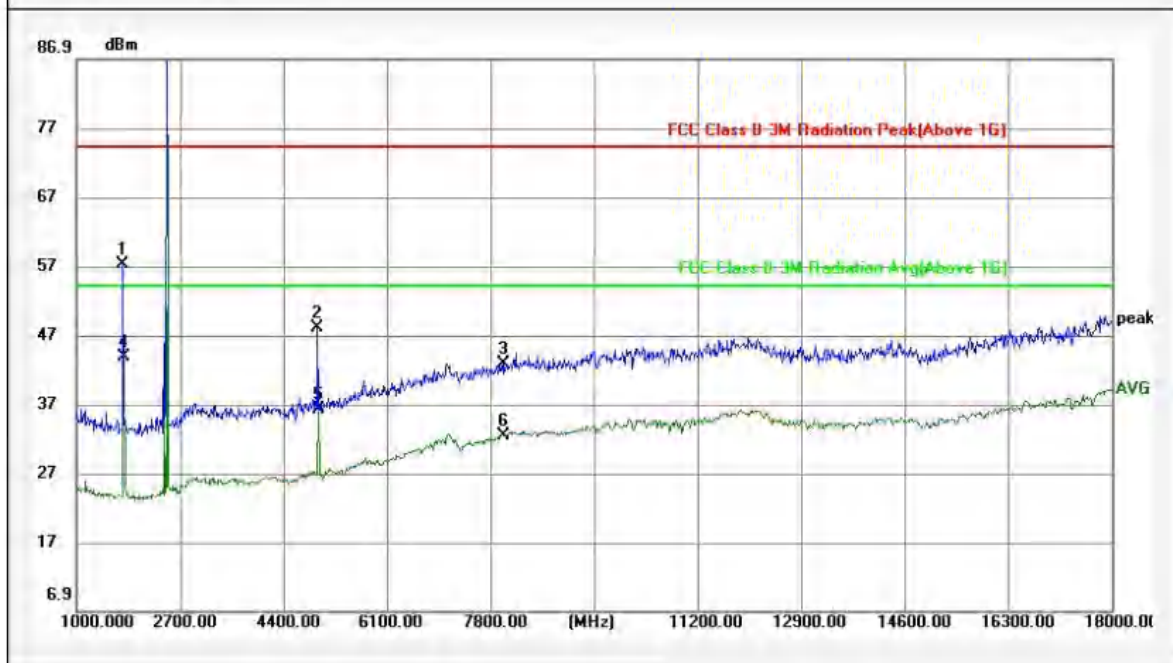
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	1765.000	-7.95	65.14	57.19	74.00	-16.81	peak		
2	4961.000	-3.39	51.34	47.95	74.00	-26.05	peak		
3	8021.000	2.09	40.63	42.72	74.00	-31.28	peak		
4	1782.000	-7.93	51.64	43.71	54.00	-10.29	AVG	*	
5	4978.000	-3.40	39.67	36.27	54.00	-17.73	AVG		
6	8004.000	2.05	30.30	32.35	54.00	-21.65	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#12





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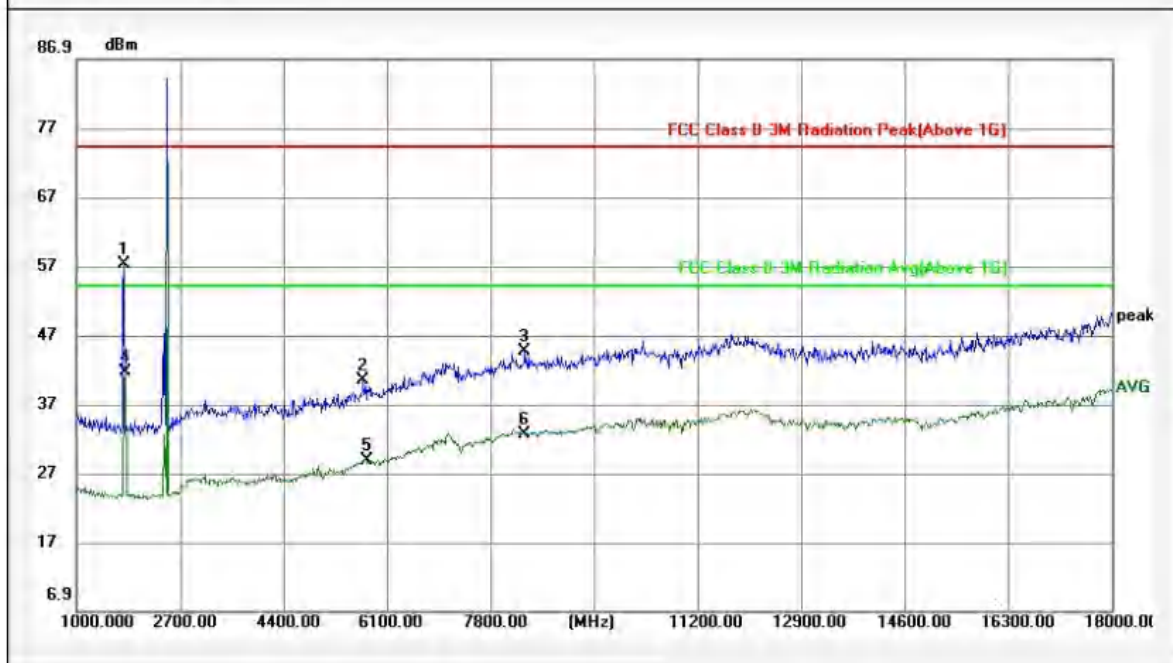
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	1782.000	-7.93	65.06	57.13	74.00	-16.87	peak		
2	5709.000	-0.97	41.43	40.46	74.00	-33.54	peak		
3	8361.000	2.81	41.70	44.51	74.00	-29.49	peak		
4	1799.000	-7.91	49.51	41.60	54.00	-12.40	AVG	*	
5	5760.000	-0.80	29.63	28.83	54.00	-25.17	AVG		
6	8361.000	2.81	29.87	32.68	54.00	-21.32	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#11





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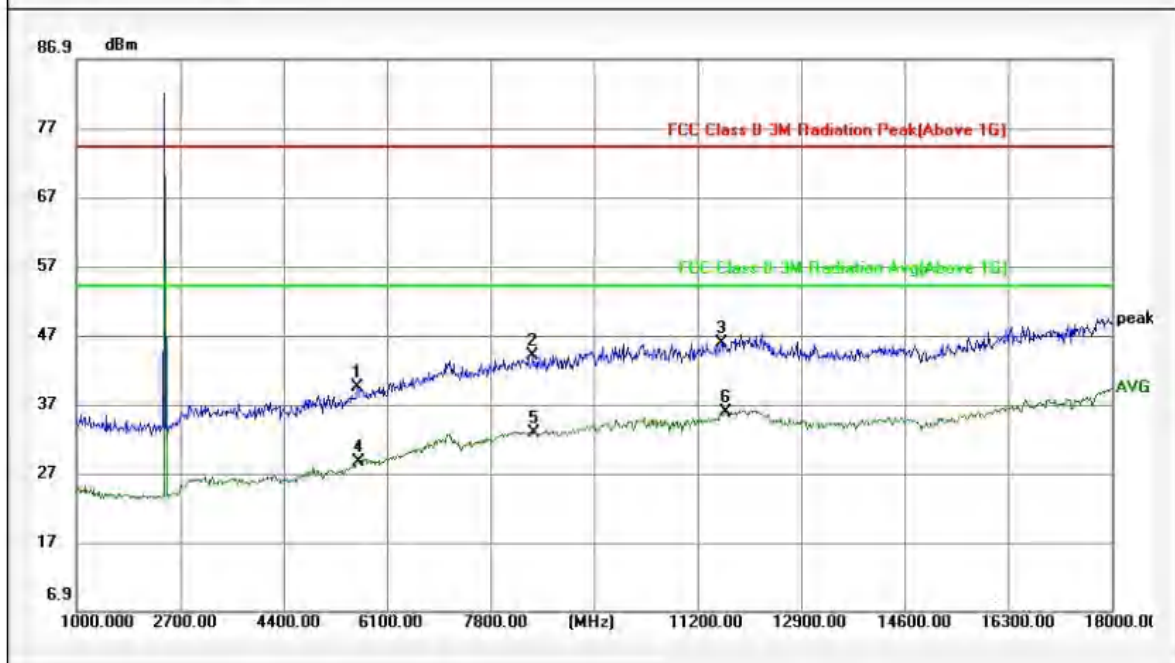
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2441MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	5607.000	-1.31	40.79	39.48	74.00	-34.52	peak		
2	8497.000	3.10	40.97	44.07	74.00	-29.93	peak		
3	11591.000	7.03	38.85	45.88	74.00	-28.12	peak		
4	5624.000	-1.25	29.84	28.59	54.00	-25.41	AVG		
5	8514.000	3.14	29.70	32.84	54.00	-21.16	AVG		
6	11659.000	7.16	28.55	35.71	54.00	-18.29	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#10





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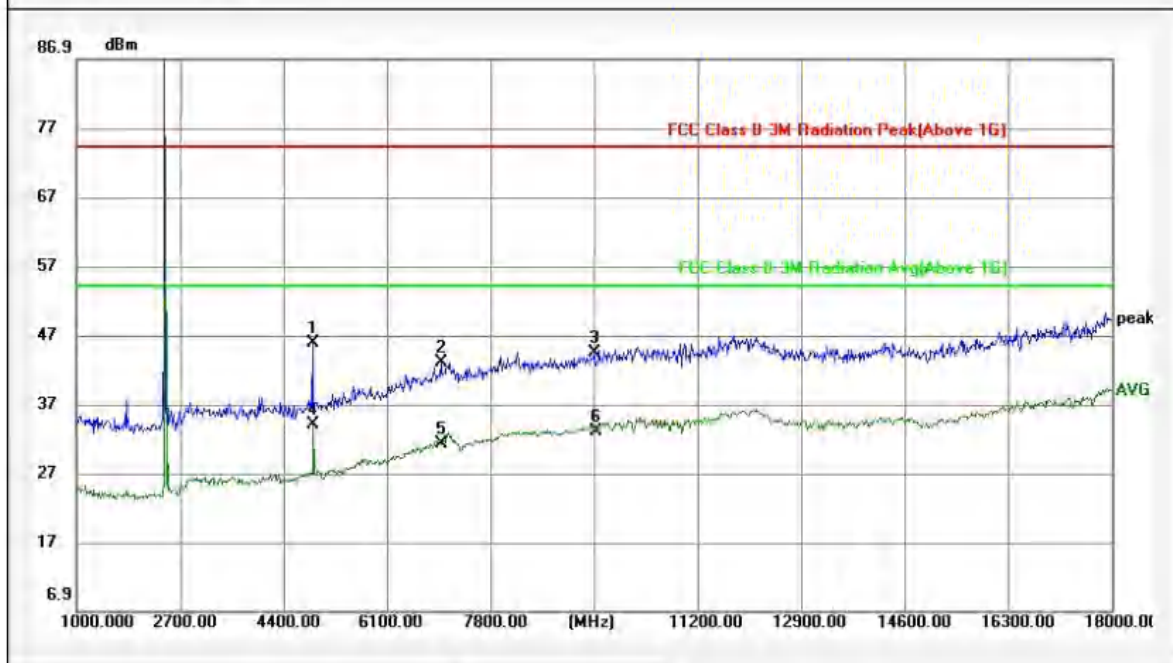
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2441MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	4876.000	-3.34	49.17	45.83	74.00	-28.17	peak		
2	6984.000	2.76	40.32	43.08	74.00	-30.92	peak		
3	9500.000	4.24	40.07	44.31	74.00	-29.69	peak		
4	4893.000	-3.34	37.37	34.03	54.00	-19.97	AVG	*	
5	6984.000	2.76	28.42	31.18	54.00	-22.82	AVG		
6	9534.000	4.26	28.84	33.10	54.00	-20.90	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#9





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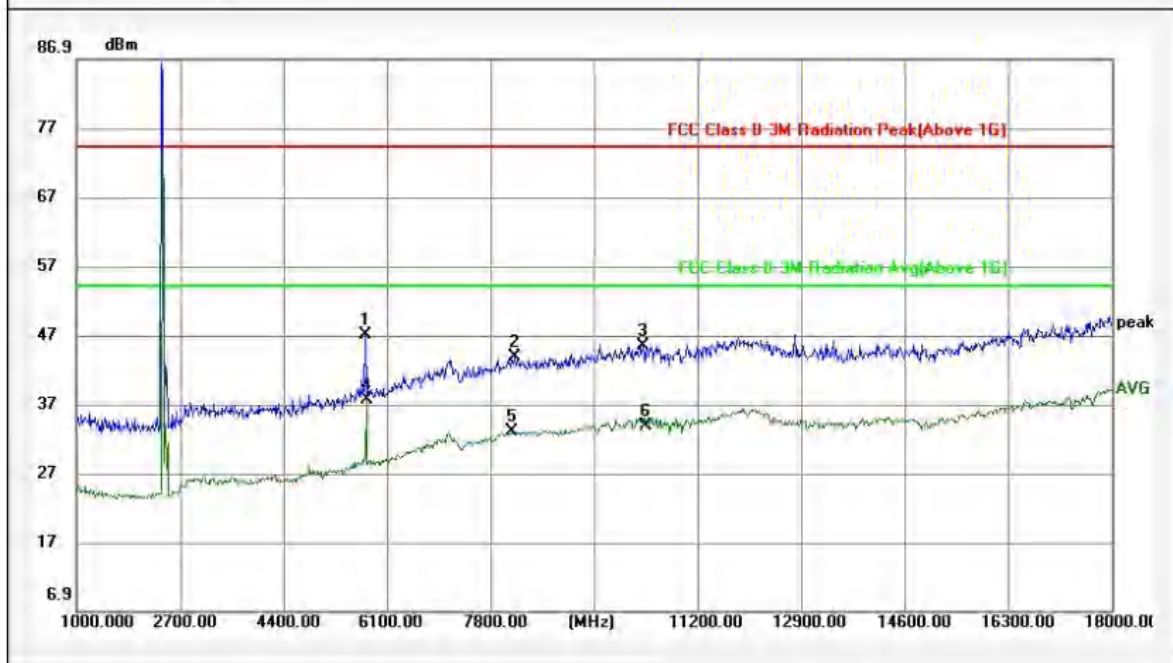
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	5743.000	-0.86	47.89	47.03	74.00	-26.97	peak		
2	8191.000	2.45	41.36	43.81	74.00	-30.19	peak		
3	10299.000	4.89	40.52	45.41	74.00	-28.59	peak		
4	5760.000	-0.80	38.42	37.62	54.00	-16.38	AVG	*	
5	8157.000	2.38	30.69	33.07	54.00	-20.93	AVG		
6	10350.000	4.96	28.84	33.80	54.00	-20.20	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#8





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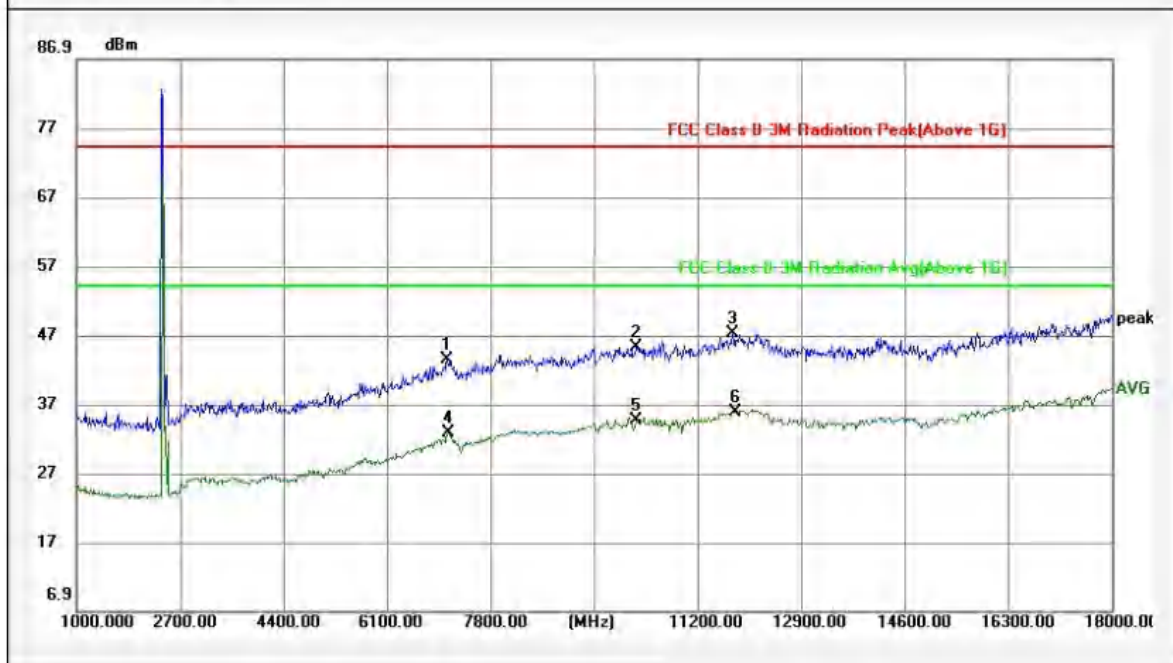
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7086.000	2.76	40.63	43.39	74.00	-30.61	peak		
2	10197.000	4.75	40.46	45.21	74.00	-28.79	peak		
3	11778.000	7.39	39.91	47.30	74.00	-26.70	peak		
4	7103.000	2.74	30.06	32.80	54.00	-21.20	AVG		
5	10197.000	4.75	29.95	34.70	54.00	-19.30	AVG		
6	11829.000	7.49	28.35	35.84	54.00	-18.16	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE1Data :#7





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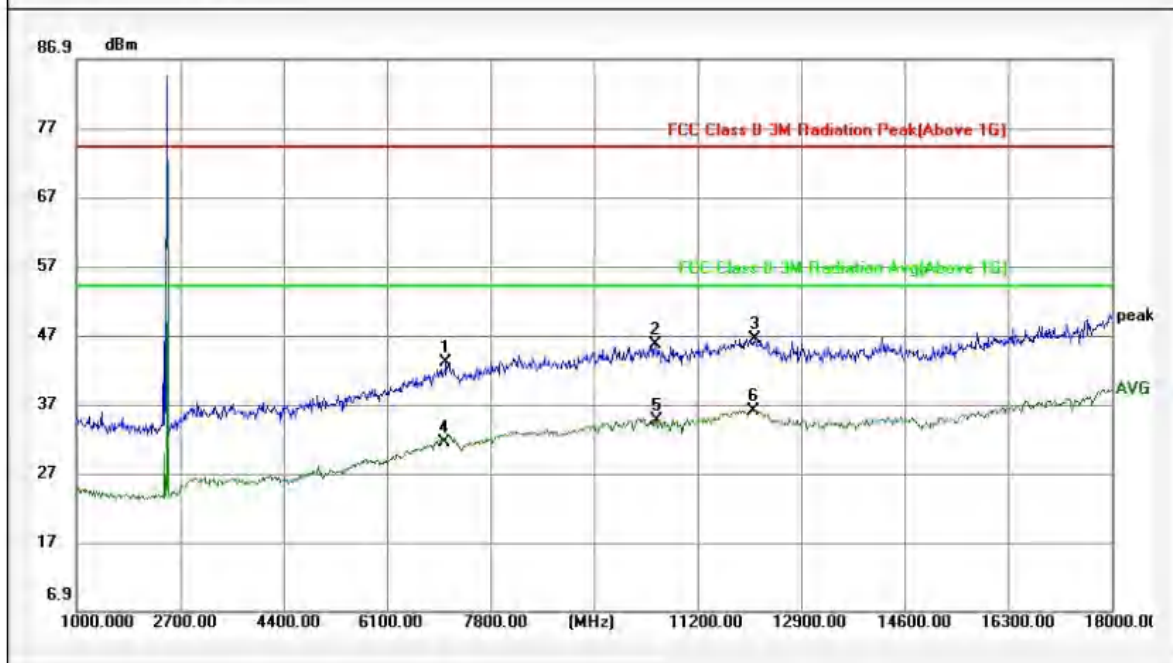
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7069.000	2.76	40.18	42.94	74.00	-31.06	peak		
2	10503.000	5.18	40.45	45.63	74.00	-28.37	peak		
3	12135.000	7.85	38.62	46.47	74.00	-27.53	peak		
4	7035.000	2.78	28.72	31.50	54.00	-22.50	AVG		
5	10520.000	5.21	29.45	34.66	54.00	-19.34	AVG		
6	12118.000	7.84	28.18	36.02	54.00	-17.98	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#6





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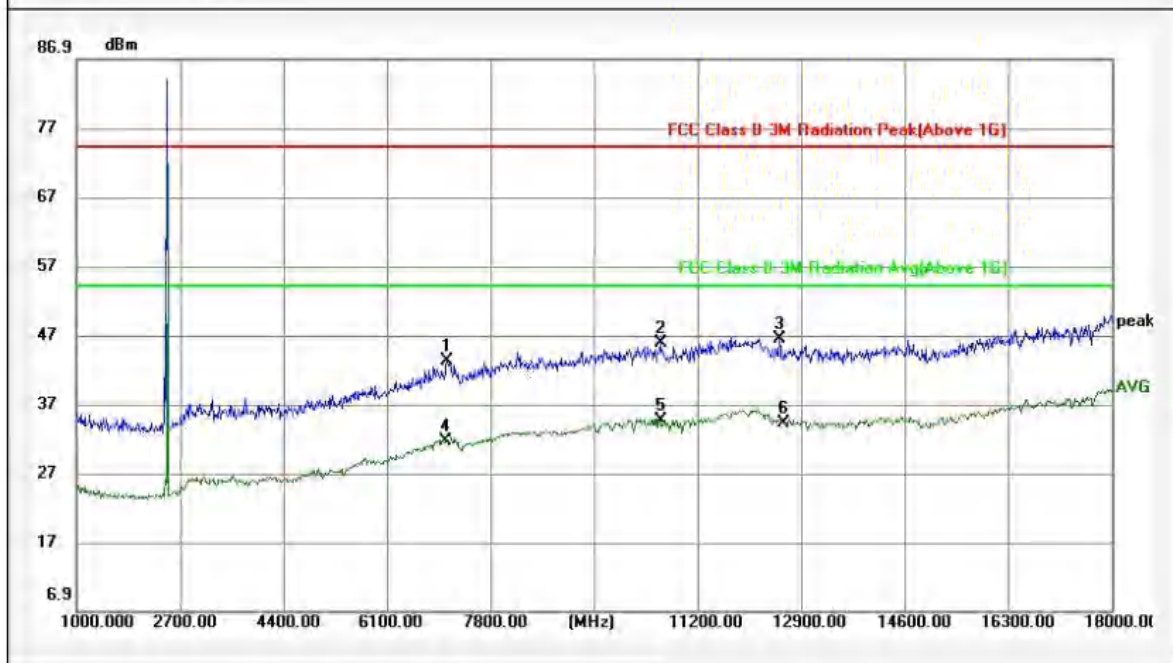
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7086.000	2.76	40.39	43.15	74.00	-30.85	peak		
2	10588.000	5.30	40.47	45.77	74.00	-28.23	peak		
3	12543.000	7.96	38.52	46.48	74.00	-27.52	peak		
4	7069.000	2.76	28.90	31.66	54.00	-22.34	AVG		
5	10588.000	5.30	29.23	34.53	54.00	-19.47	AVG	*	
6	12611.000	7.98	26.15	34.13	54.00	-19.87	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK: *:Maximum data x:Over limit !:Over margin

File: OB1970-RSE1Data :#5





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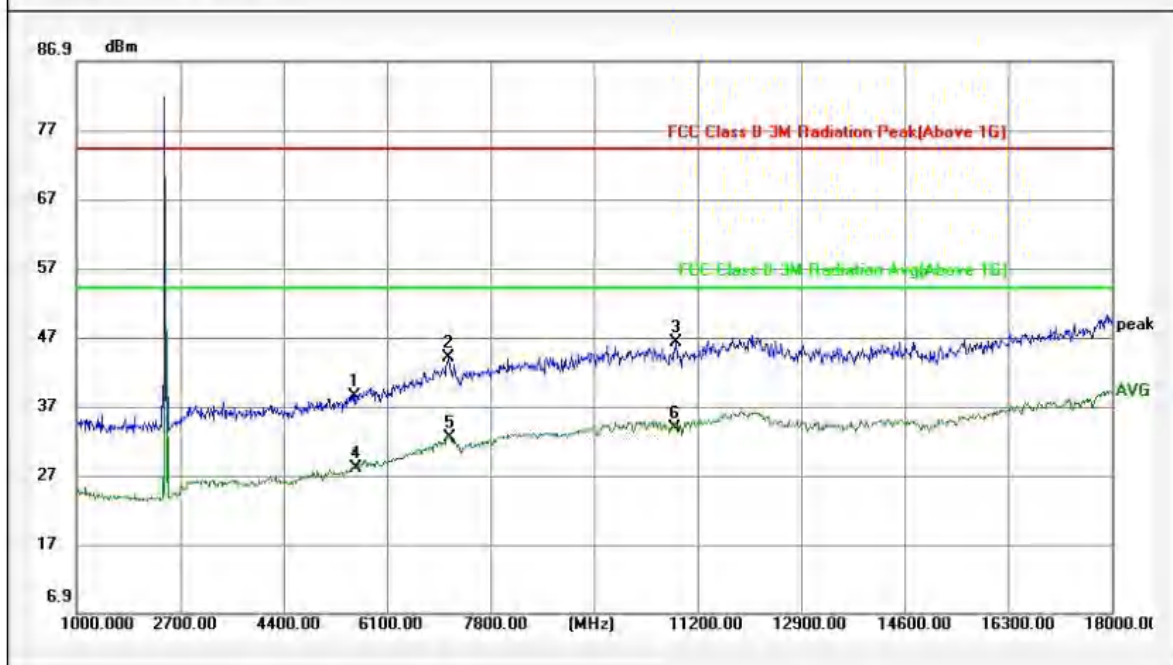
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2441MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	5573.000	-1.42	39.92	38.50	74.00	-35.50	peak		
2	7103.000	2.74	41.28	44.02	74.00	-29.98	peak		
3	10843.000	5.67	40.48	46.15	74.00	-27.85	peak		
4	5590.000	-1.37	29.36	27.99	54.00	-26.01	AVG		
5	7137.000	2.74	29.64	32.38	54.00	-21.62	AVG		
6	10826.000	5.64	28.22	33.86	54.00	-20.14	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#4





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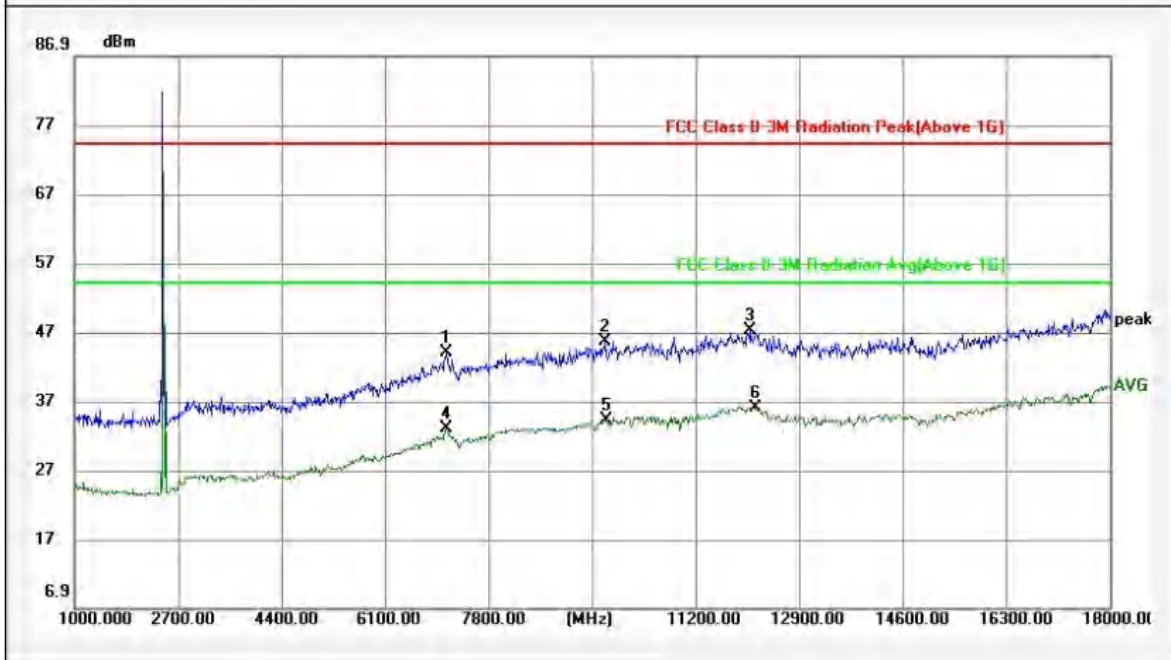
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2441MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7103.000	2.74	41.28	44.02	74.00	-29.98	peak		
2	9721.000	4.34	41.29	45.63	74.00	-28.37	peak		
3	12101.000	7.85	39.36	47.21	74.00	-26.79	peak		
4	7103.000	2.74	30.18	32.92	54.00	-21.08	AVG		
5	9738.000	4.35	29.95	34.30	54.00	-19.70	AVG		
6	12186.000	7.86	28.24	36.10	54.00	-17.90	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#3





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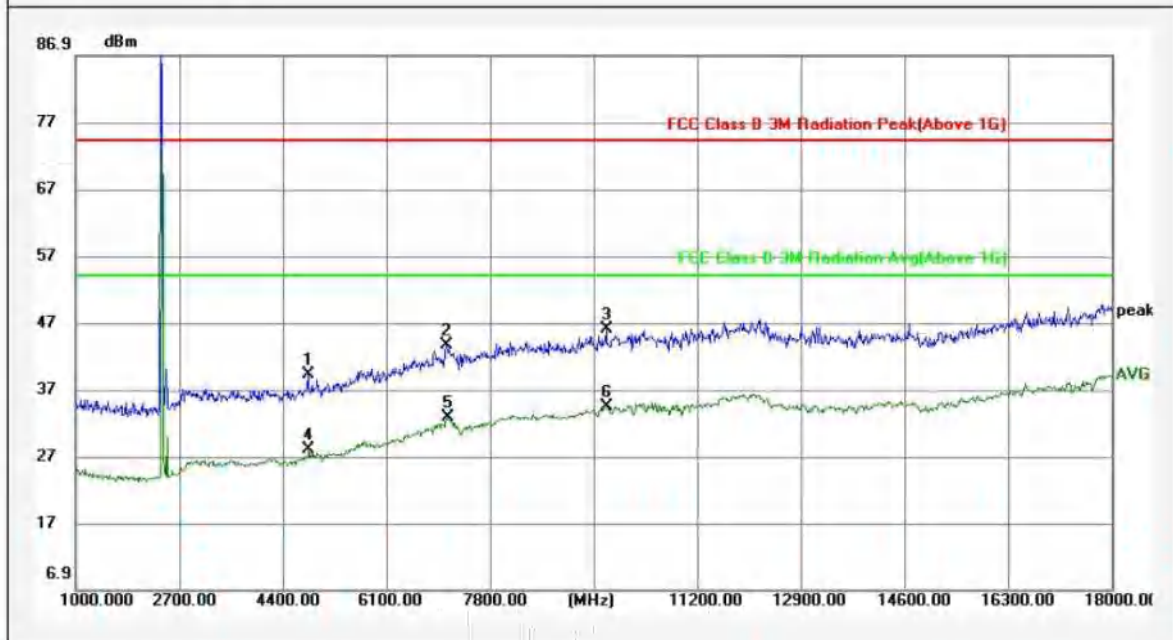
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	4808.000	-3.28	42.48	39.20	74.00	-34.80	peak		
2	7086.000	2.76	40.84	43.60	74.00	-30.40	peak		
3	9704.000	4.33	41.62	45.95	74.00	-28.05	peak		
4	4825.000	-3.29	31.31	28.02	54.00	-25.98	AVG		
5	7103.000	2.74	30.09	32.83	54.00	-21.17	AVG		
6	9721.000	4.34	30.15	34.49	54.00	-19.51	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*:Maximum data x:Over limit !:Over margin

File: OB1970-RSE\data :#2





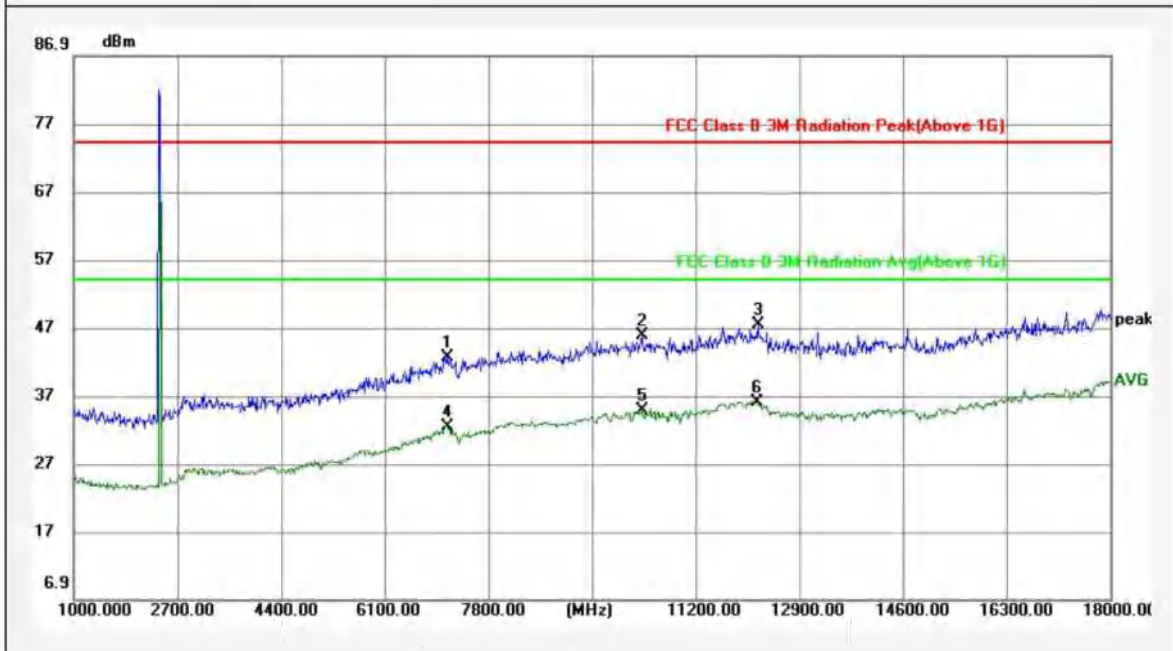
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7120.000	2.74	39.92	42.66	74.00	-31.34	peak		
2	10316.000	4.91	40.93	45.84	74.00	-28.16	peak		
3	12220.000	7.87	39.44	47.31	74.00	-26.69	peak		
4	7137.000	2.74	29.60	32.34	54.00	-21.66	AVG		
5	10316.000	4.91	29.94	34.85	54.00	-19.15	AVG		
6	12203.000	7.87	28.14	36.01	54.00	-17.99	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#1



Appendix A.8: Test Results of Radiated Emissions in Restricted Bands



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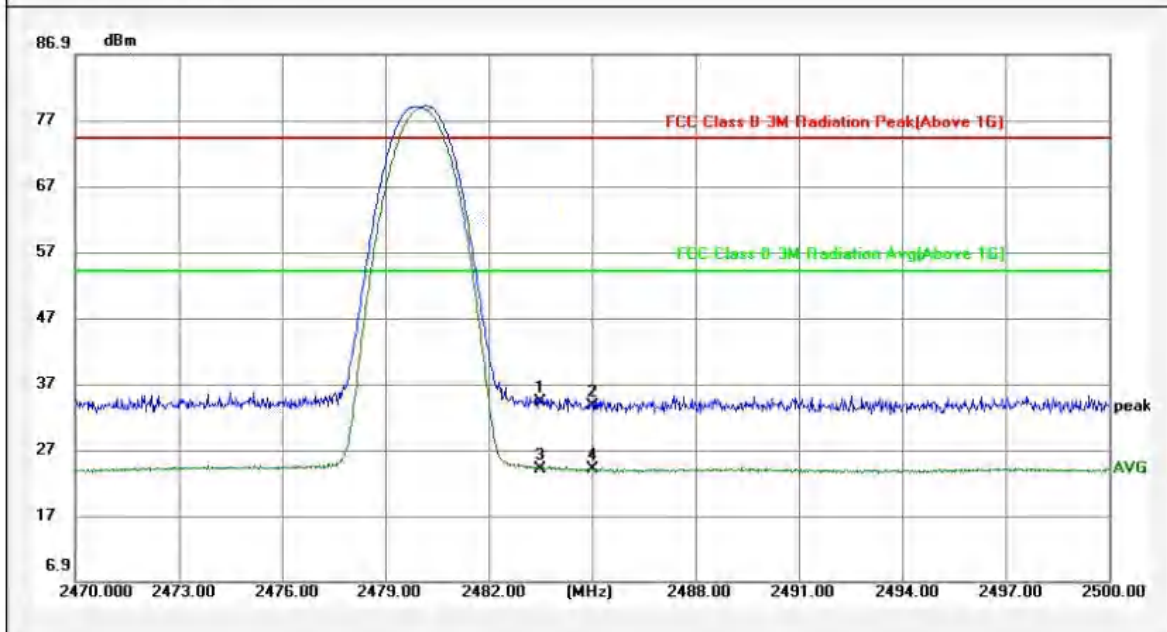
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 3DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	40.15	34.16	74.00	-39.84	peak		
2	2485.000	-5.99	39.59	33.60	74.00	-40.40	peak		
3	2483.500	-5.99	30.05	24.06	54.00	-29.94	AVG		
4	2485.000	-5.99	30.08	24.09	54.00	-29.91	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-Band\Data :#12





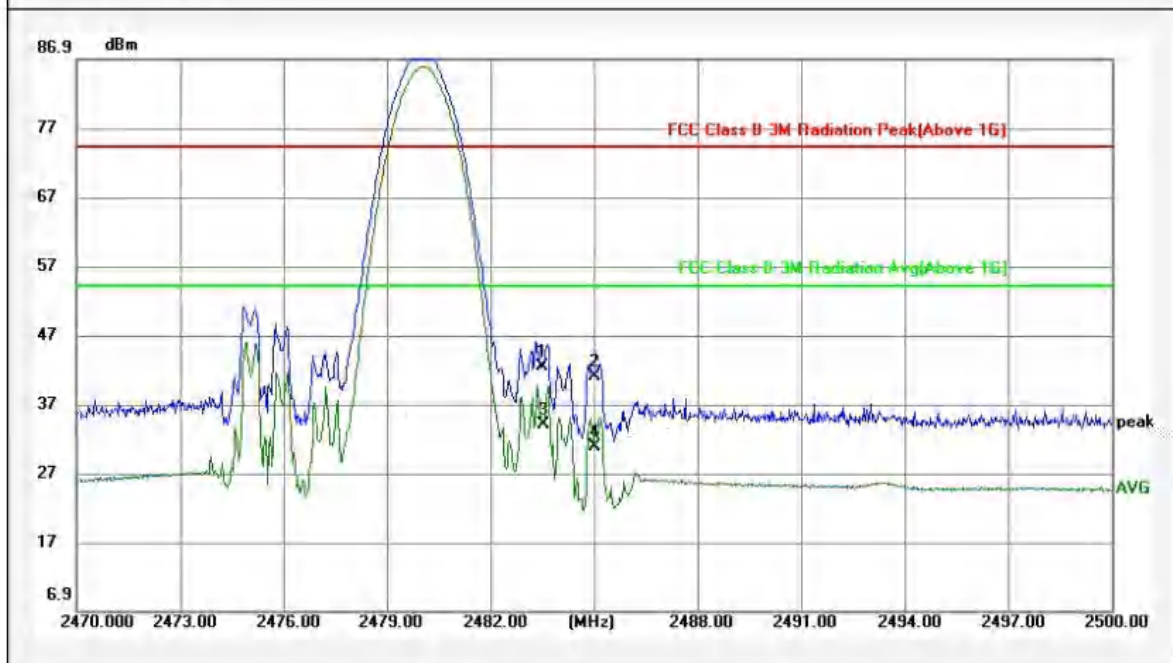
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 3DH5-2480MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	48.47	42.48	74.00	-31.52	peak		
2	2485.000	-5.99	47.01	41.02	74.00	-32.98	peak		
3	2483.530	-5.99	40.09	34.10	54.00	-19.90	AVG	*	
4	2485.000	-5.99	36.84	30.85	54.00	-23.15	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#11





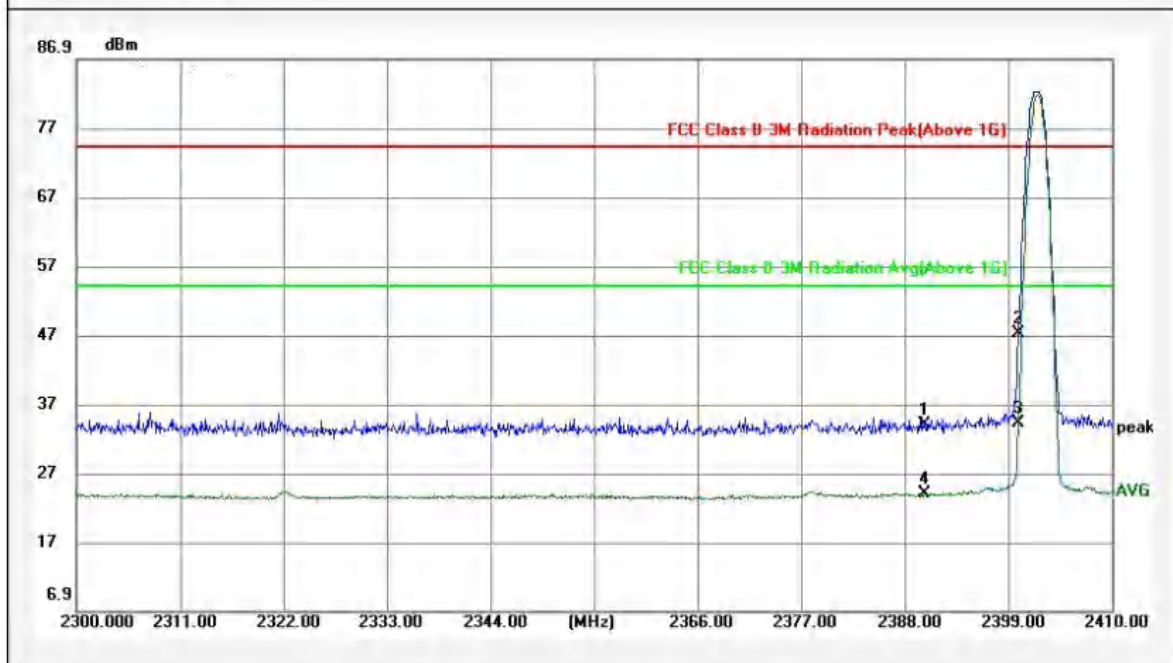
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 3DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	40.31	33.98	74.00	-40.02	peak		
2	2400.000	-6.29	53.46	47.17	74.00	-26.83	peak		
3	2400.100	-6.29	40.58	34.29	54.00	-19.71	AVG	*	
4	2390.090	-6.33	30.29	23.96	54.00	-30.04	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#10





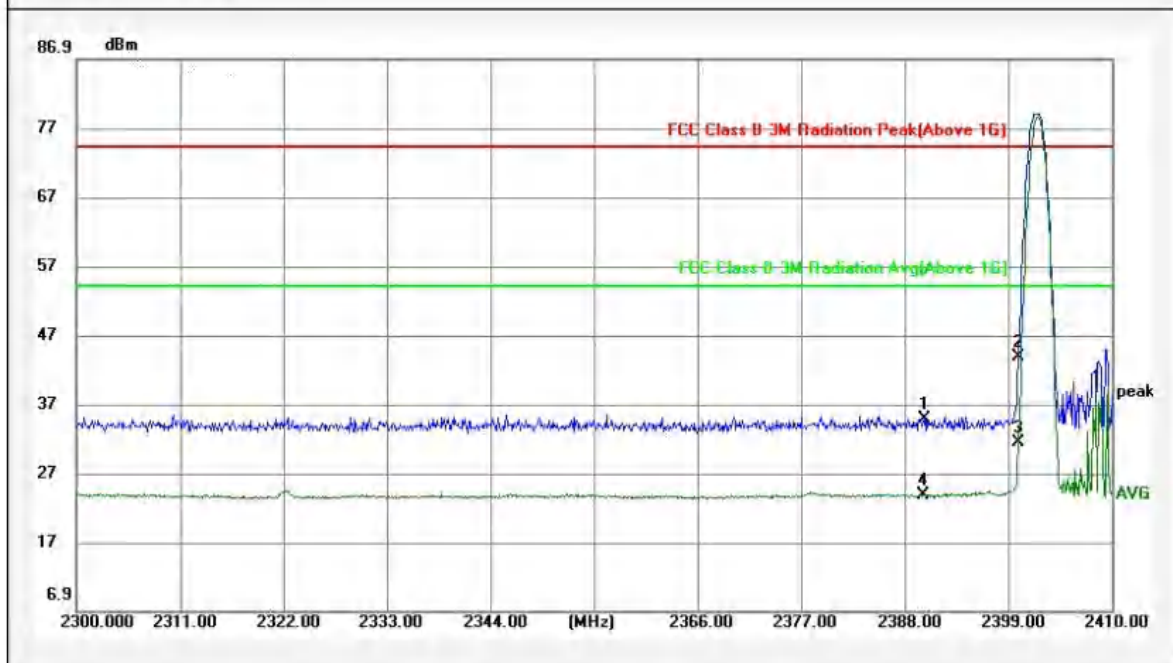
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:		Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT:	Dongle	Power Rating:	DC 5V
Model No.:	OB1970	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	3DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	41.06	34.73	74.00	-39.27	peak		
2	2400.000	-6.29	50.02	43.73	74.00	-30.27	peak		
3	2400.100	-6.29	37.60	31.31	54.00	-22.69	AVG	*	
4	2389.980	-6.33	30.19	23.86	54.00	-30.14	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#9





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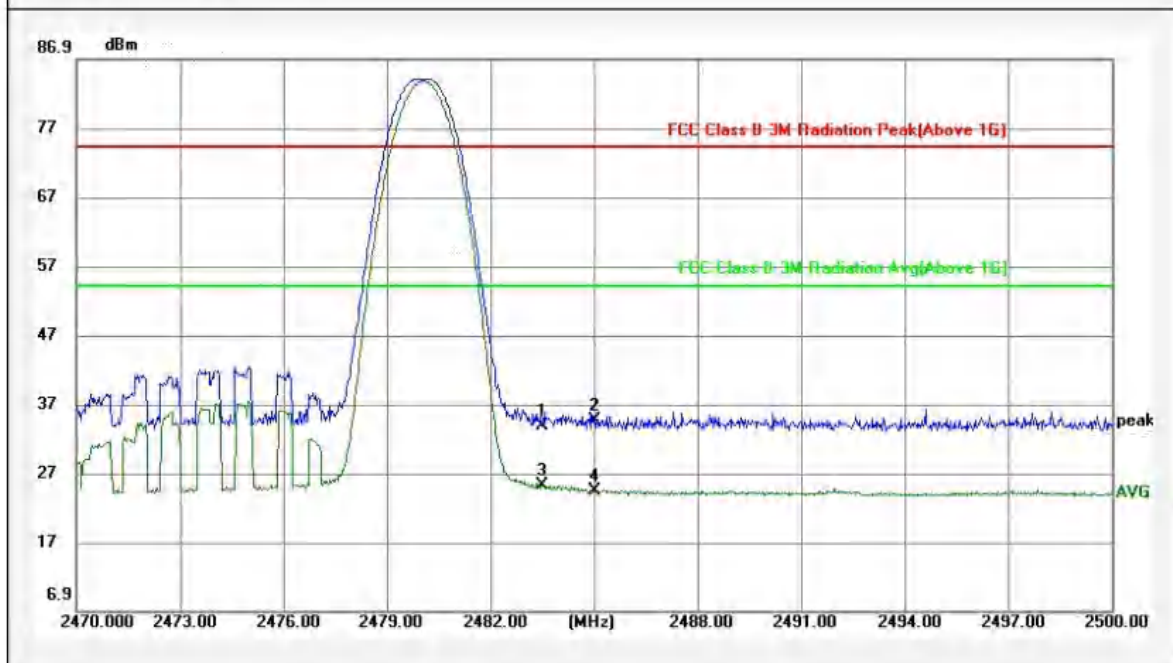
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	39.82	33.83	74.00	-40.17	peak		
2	2485.000	-5.99	40.63	34.64	74.00	-39.36	peak		
3	2483.500	-5.99	31.21	25.22	54.00	-28.78	AVG	*	
4	2485.000	-5.99	30.44	24.45	54.00	-29.55	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#8





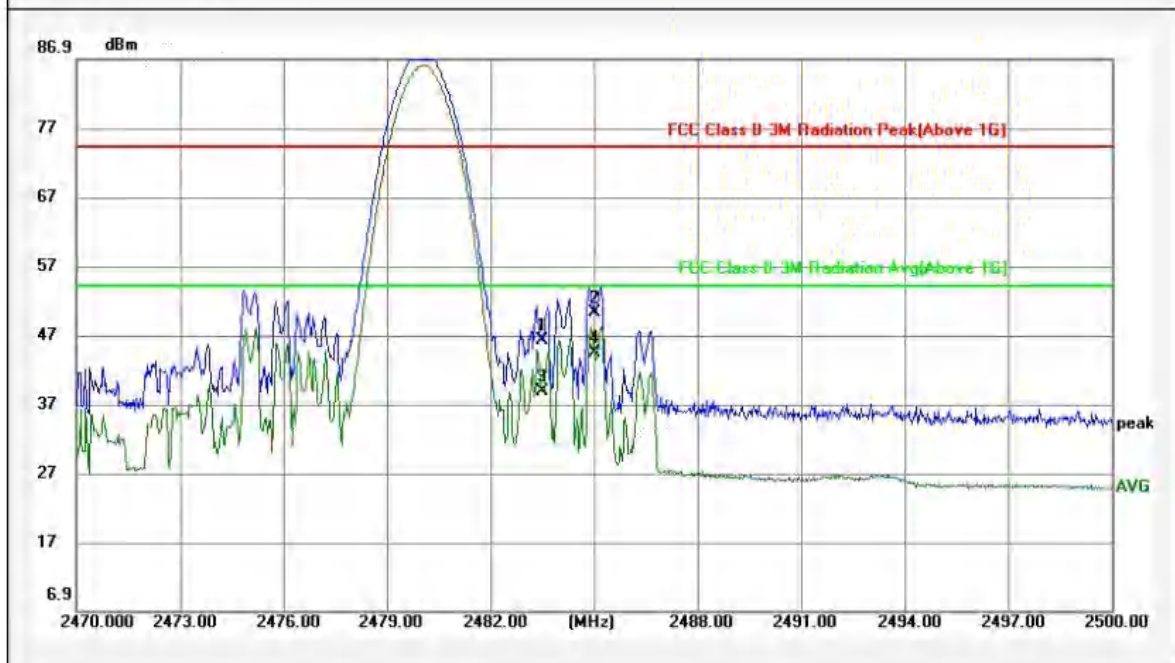
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 2DH5-2480MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	52.12	46.13	74.00	-27.87	peak		
2	2485.000	-5.99	56.24	50.25	74.00	-23.75	peak		
3	2483.500	-5.99	44.88	38.89	54.00	-15.11	AVG		
4	2485.000	-5.99	50.38	44.39	54.00	-9.61	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#7





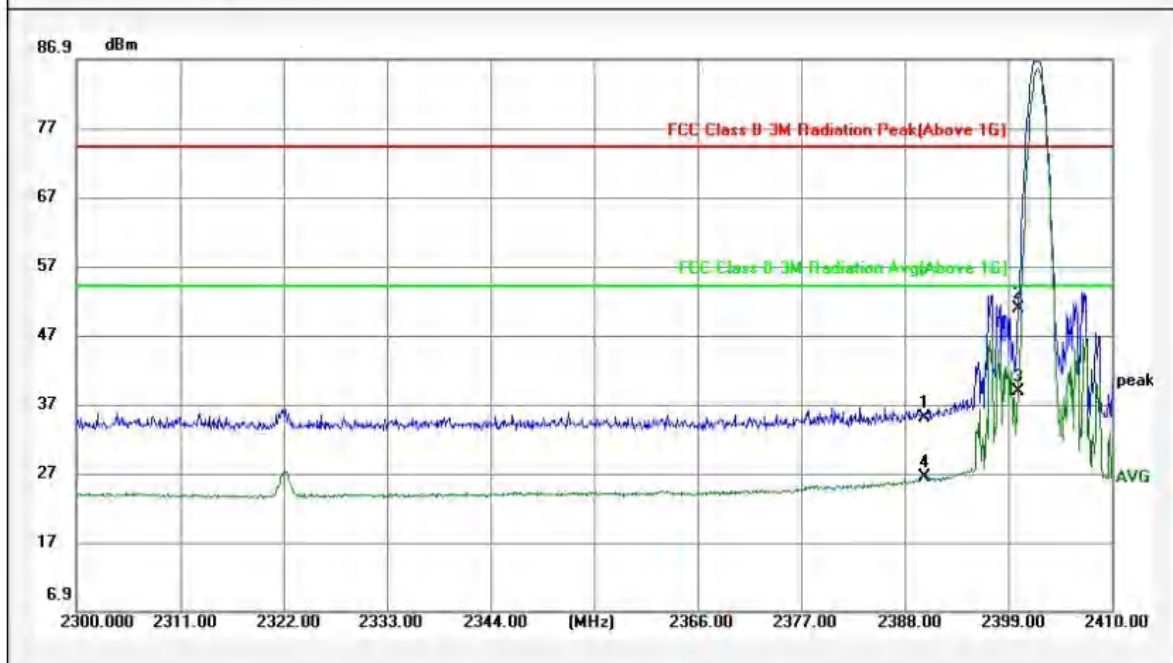
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 2DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	41.41	35.08	74.00	-38.92	peak		
2	2400.000	-6.29	57.13	50.84	74.00	-23.16	peak		
3	2400.100	-6.29	45.03	38.74	54.00	-15.26	AVG	*	
4	2390.090	-6.33	32.66	26.33	54.00	-27.67	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#6





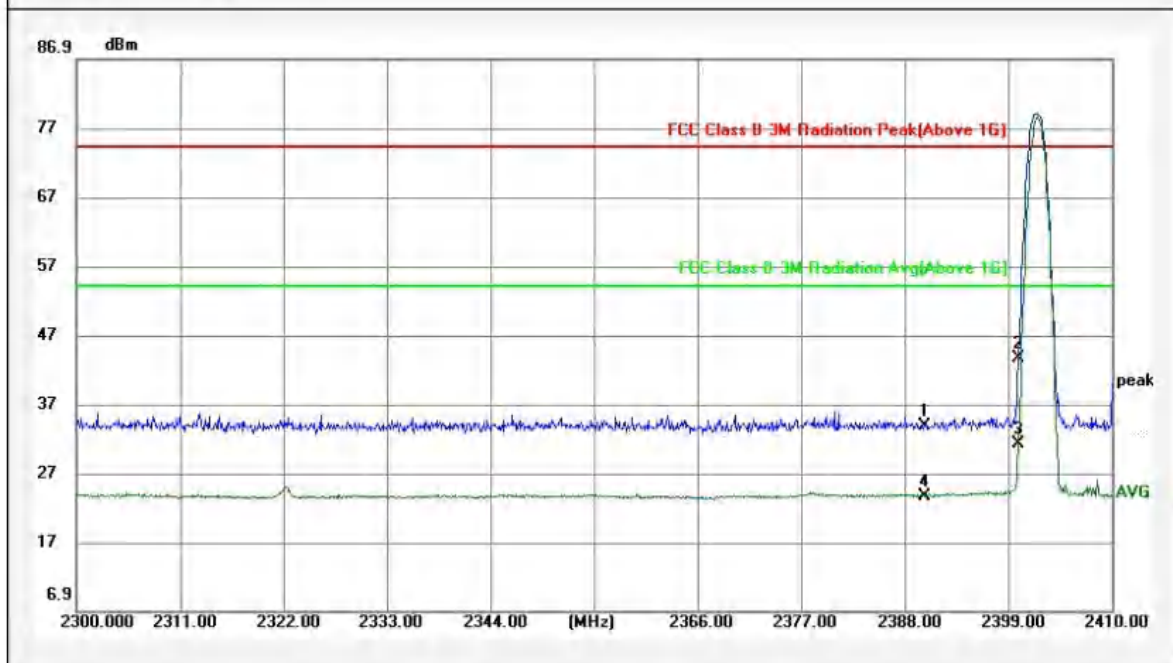
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	40.13	33.80	74.00	-40.20	peak		
2	2400.000	-6.29	49.96	43.67	74.00	-30.33	peak		
3	2400.100	-6.29	37.59	31.30	54.00	-22.70	AVG	*	
4	2390.090	-6.33	29.99	23.66	54.00	-30.34	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#5





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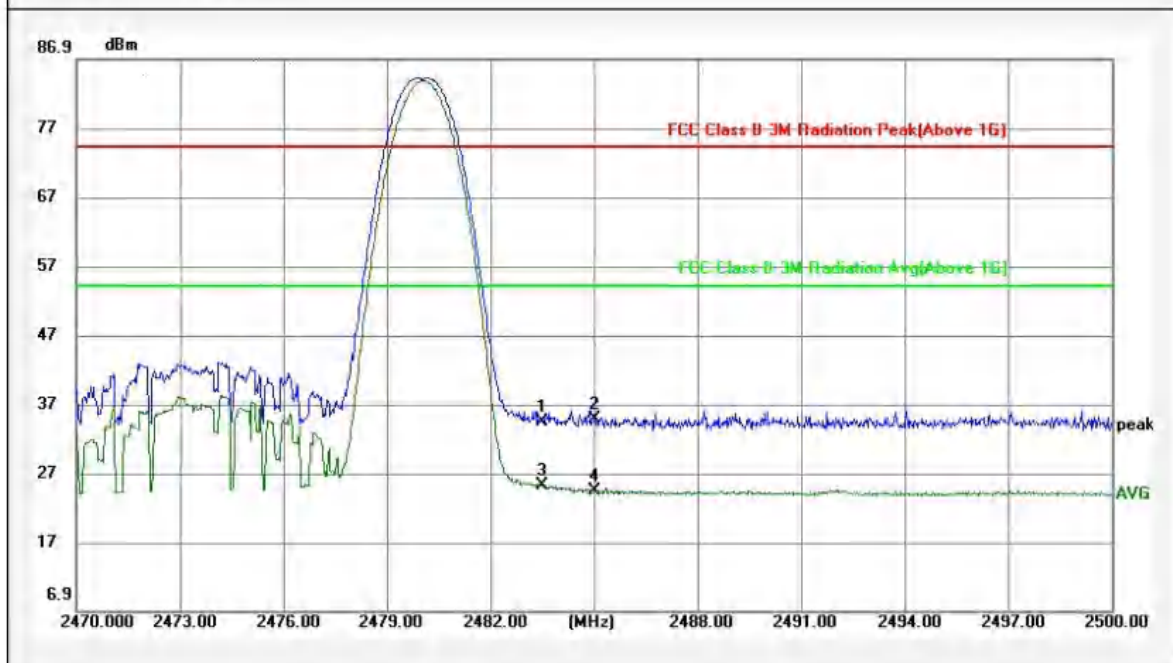
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	40.44	34.45	74.00	-39.55	peak		
2	2485.000	-5.99	40.75	34.76	74.00	-39.24	peak		
3	2483.500	-5.99	31.25	25.26	54.00	-28.74	AVG	*	
4	2485.000	-5.99	30.30	24.31	54.00	-29.69	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#4





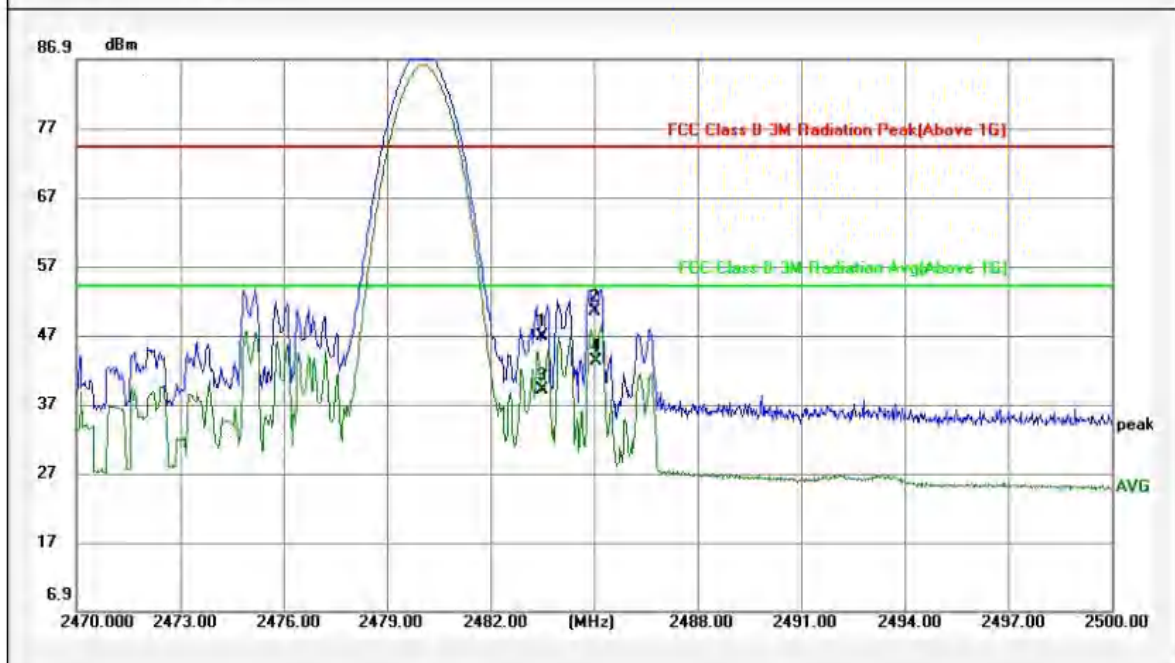
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: DH5-2480MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	52.81	46.82	74.00	-27.18	peak		
2	2485.000	-5.99	56.32	50.33	74.00	-23.67	peak		
3	2483.500	-5.99	45.07	39.08	54.00	-14.92	AVG		
4	2485.060	-5.99	49.20	43.21	54.00	-10.79	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#3





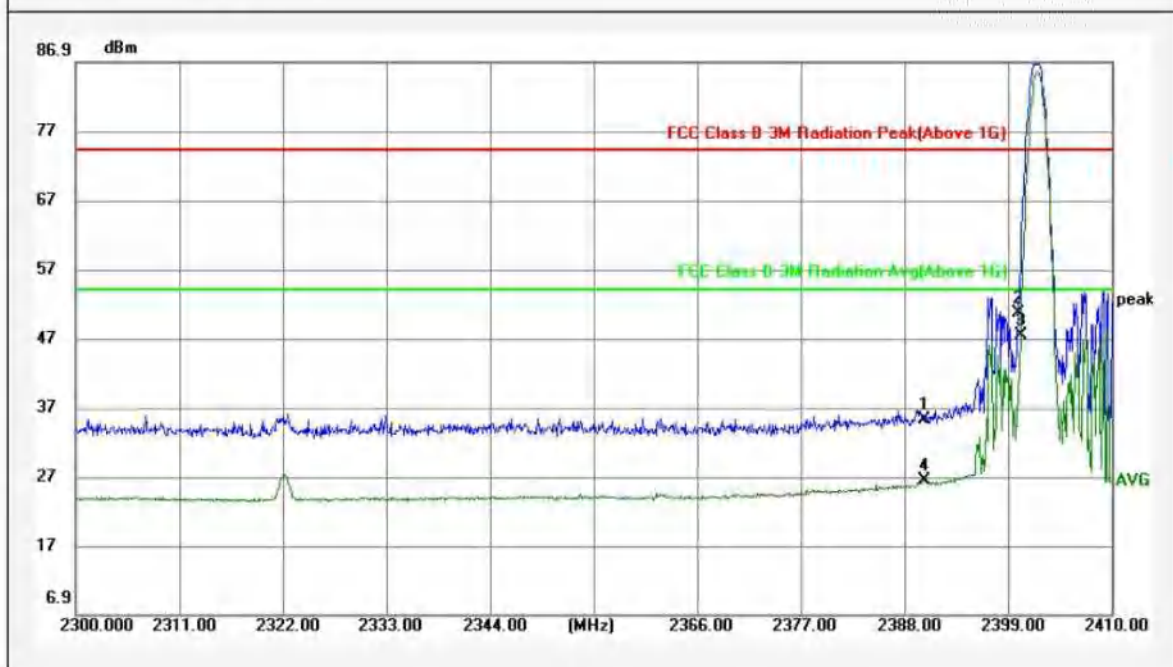
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: DH5-2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	41.56	35.23	74.00	-38.77	peak		
2	2400.000	-6.29	56.82	50.53	74.00	-23.47	peak		
3	2400.320	-6.29	53.74	47.45	54.00	-6.55	AVG	*	
4	2390.090	-6.33	32.83	26.50	54.00	-27.50	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#2





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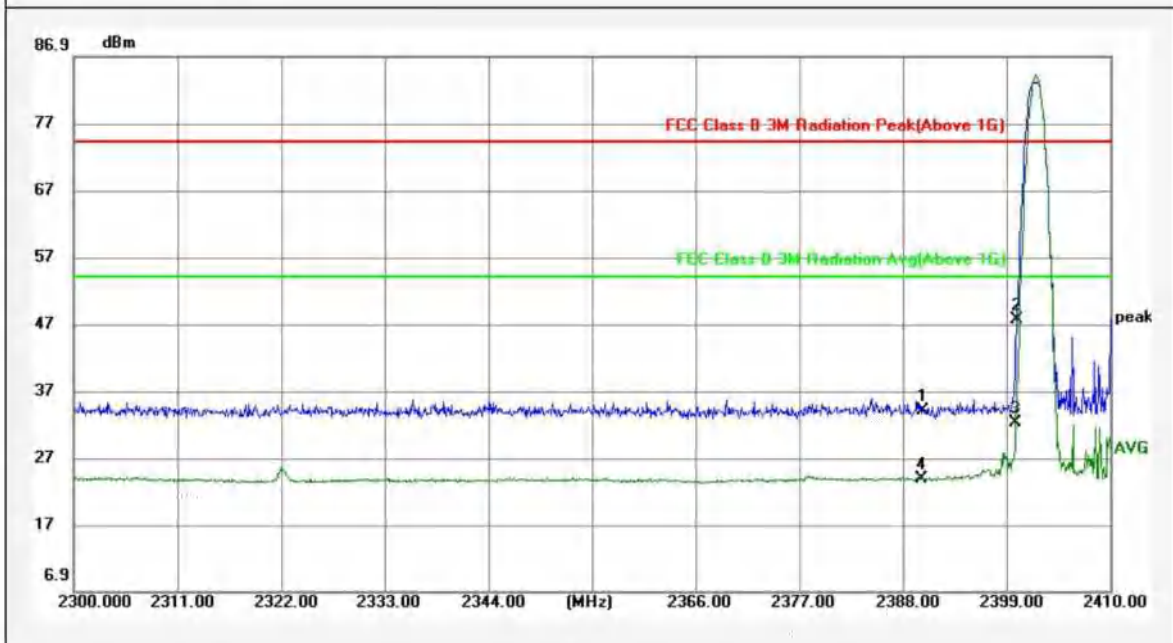
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: DH5-2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	40.29	33.96	74.00	-40.04	peak		
2	2400.000	-6.29	53.93	47.64	74.00	-26.36	peak		
3	2399.990	-6.29	38.55	32.26	54.00	-21.74	AVG	*	
4	2389.980	-6.33	30.16	23.83	54.00	-30.17	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-Band1Data :#1



Appendix B: Test Results of Bluetooth Low Energy

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Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-18.69	≤8.00	PASS
		2440	-20.15	≤8.00	PASS
		2480	-19.01	≤8.00	PASS
BLE_2M	Ant1	2402	-21.36	≤8.00	PASS
		2440	-21.89	≤8.00	PASS
		2480	-22.20	≤8.00	PASS

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 B.2: Test Results of 6dB Bandwidth

TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.676	2401.696	2402.372	0.5	PASS
BLE_1M	Ant1	2440	0.648	2439.720	2440.368	0.5	PASS
BLE_1M	Ant1	2480	0.704	2479.676	2480.380	0.5	PASS
BLE_2M	Ant1	2402	1.164	2401.460	2402.624	0.5	PASS
BLE_2M	Ant1	2440	1.112	2439.472	2440.584	0.5	PASS
BLE_2M	Ant1	2480	1.124	2479.492	2480.616	0.5	PASS



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2440-PASS



BLE 1M-Ant1-2480-PASS



BLE 2M-Ant1-2402-PASS



BLE 2M-Ant1-2440-PASS



BLE 2M-Ant1-2480-PASS

Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0525	2401.5095	2402.5620	---	---
BLE_1M	Ant1	2440	1.0444	2439.5146	2440.5590	---	---
BLE_1M	Ant1	2480	1.0435	2479.5199	2480.5634	---	---
BLE_2M	Ant1	2402	2.0949	2400.9972	2403.0921	---	---
BLE_2M	Ant1	2440	2.0909	2439.0002	2441.0911	---	---
BLE_2M	Ant1	2480	2.0944	2478.9991	2481.0935	---	---



BLE_1M-Ant1-2402



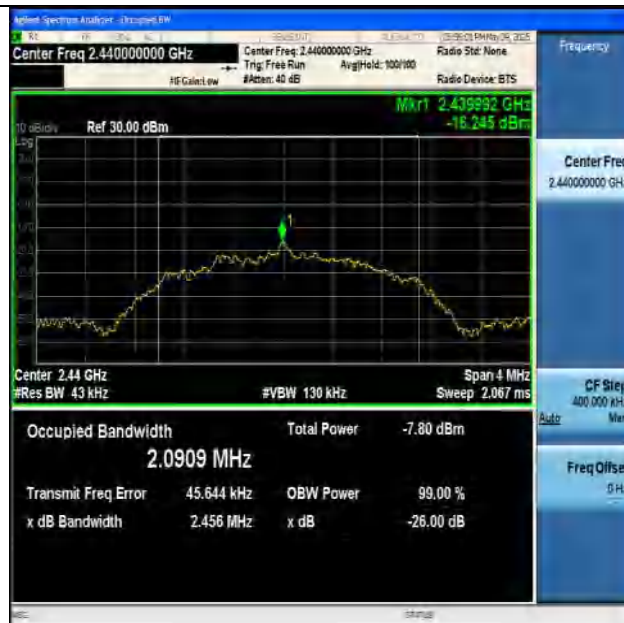
BLE_1M-Ant1-2440



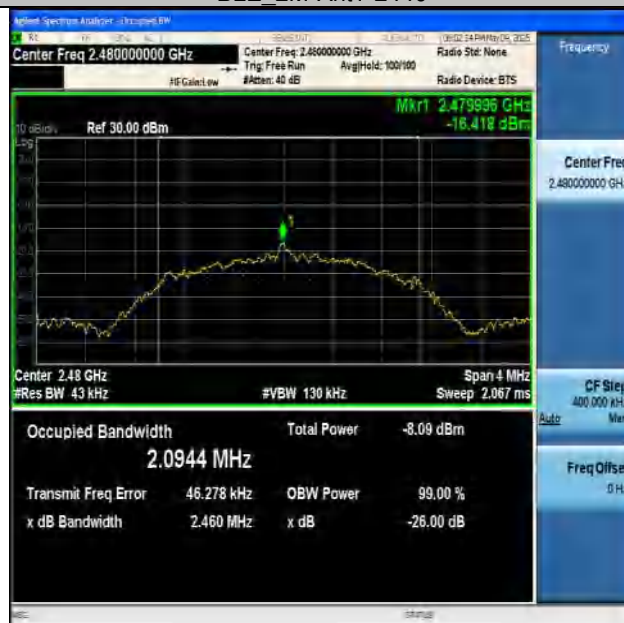
BLE 1M-Ant1-2480



BLE 2M-Ant1-2402



BLE 2M-Ant1-2440



BLE 2M-Ant1-2480

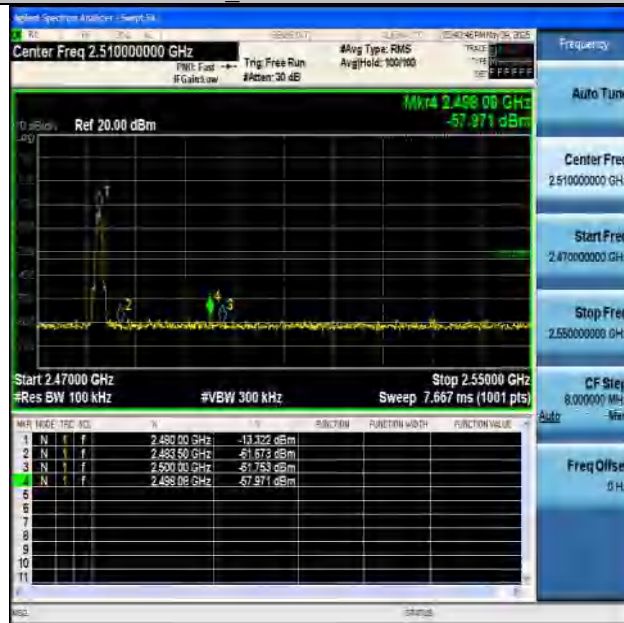
Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

Band Edge

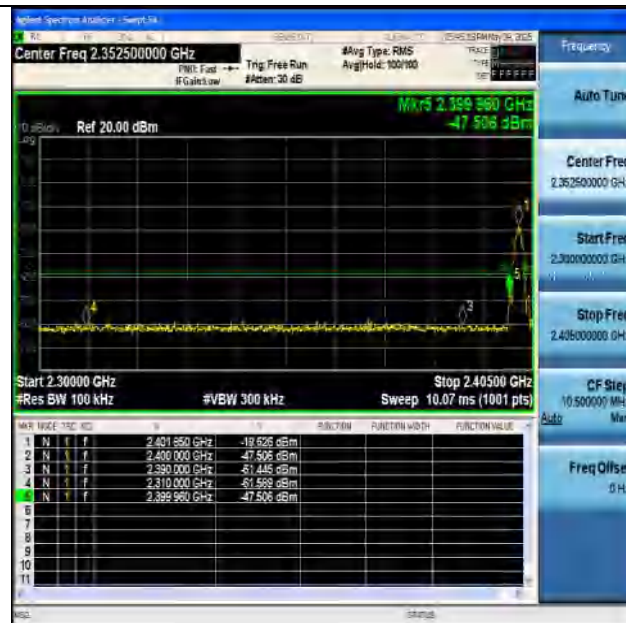
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	-14.25	-58.24	≤-34.25	PASS
BLE_1M	Ant1	High	2480	-13.32	-57.97	≤-33.32	PASS
BLE_2M	Ant1	Low	2402	-18.63	-47.51	≤-38.63	PASS
BLE_2M	Ant1	High	2480	-17.67	-58.88	≤-37.67	PASS



BLE_1M-Ant1-2402-PASS



BLE_1M-Ant1-2480-PASS



BLE 2M-Ant1-2402-PASS



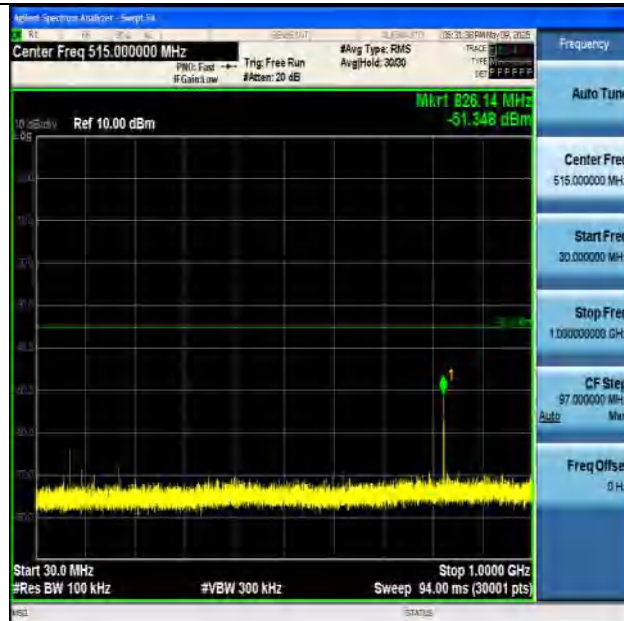
BLE 2M-Ant1-2480-PASS

Conducted Spurious Emission

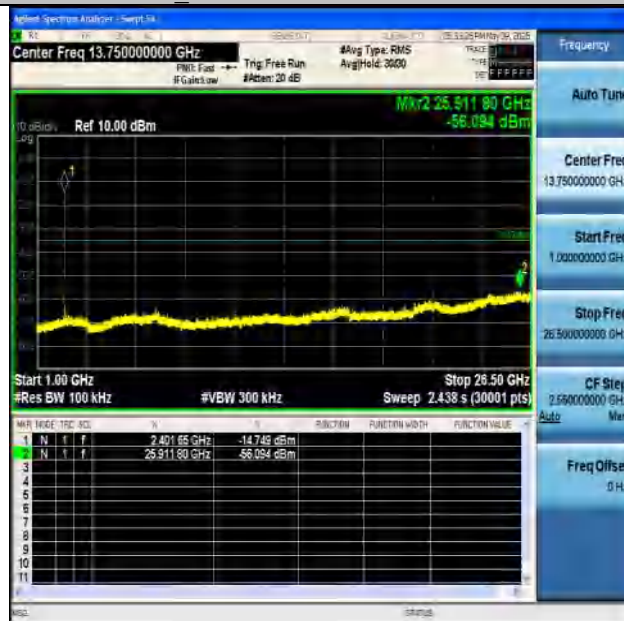
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	0~Reference	-15.18	-15.18	---	PASS
BLE_1M	Ant1	2402	30~1000	-15.18	-51.35	≤-35.18	PASS
BLE_1M	Ant1	2402	1000~26500	-15.18	-56.09	≤-35.18	PASS
BLE_1M	Ant1	2440	0~Reference	-15.03	-15.03	---	PASS
BLE_1M	Ant1	2440	30~1000	-15.03	-60.4	≤-35.03	PASS
BLE_1M	Ant1	2440	1000~26500	-15.03	-55.64	≤-35.03	PASS
BLE_1M	Ant1	2480	0~Reference	-15.31	-15.31	---	PASS
BLE_1M	Ant1	2480	30~1000	-15.31	-45.96	≤-35.31	PASS
BLE_1M	Ant1	2480	1000~26500	-15.31	-55.84	≤-35.31	PASS
BLE_2M	Ant1	2402	0~Reference	-17.44	-17.44	---	PASS
BLE_2M	Ant1	2402	30~1000	-17.44	-62.59	≤-37.44	PASS
BLE_2M	Ant1	2402	1000~26500	-17.44	-56.46	≤-37.44	PASS
BLE_2M	Ant1	2440	0~Reference	-15.69	-15.69	---	PASS
BLE_2M	Ant1	2440	30~1000	-15.69	-62.56	≤-35.69	PASS
BLE_2M	Ant1	2440	1000~26500	-15.69	-56.11	≤-35.69	PASS
BLE_2M	Ant1	2480	0~Reference	-13.97	-13.97	---	PASS
BLE_2M	Ant1	2480	30~1000	-13.97	-49.22	≤-33.97	PASS
BLE_2M	Ant1	2480	1000~26500	-13.97	-43.99	≤-33.97	PASS



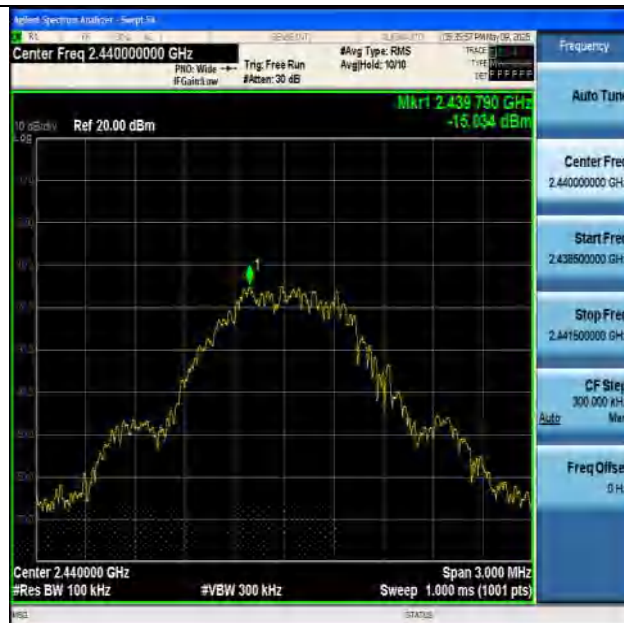
BLE_1M-Ant1-2402-0~Reference-PASS



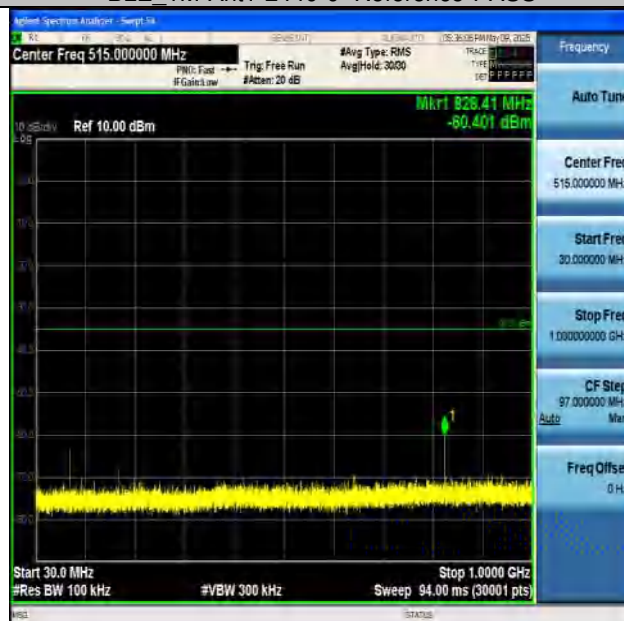
BLE_1M-Ant1-2402-30~1000-PASS



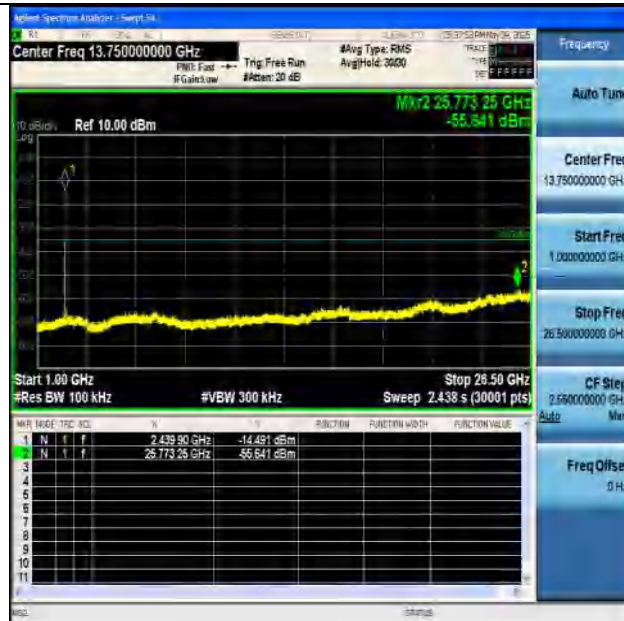
BLE_1M-Ant1-2402-1000~26500-PASS



BLE_1M-Ant1-2440-0~Reference-PASS



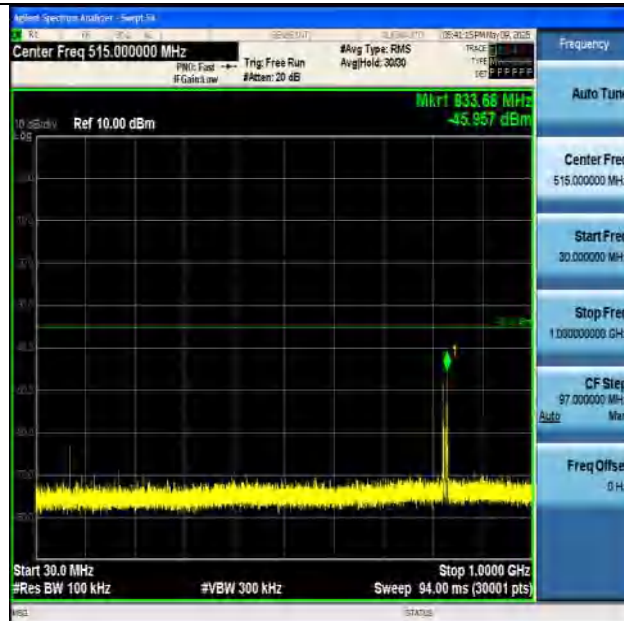
BLE_1M-Ant1-2440-30~1000-PASS



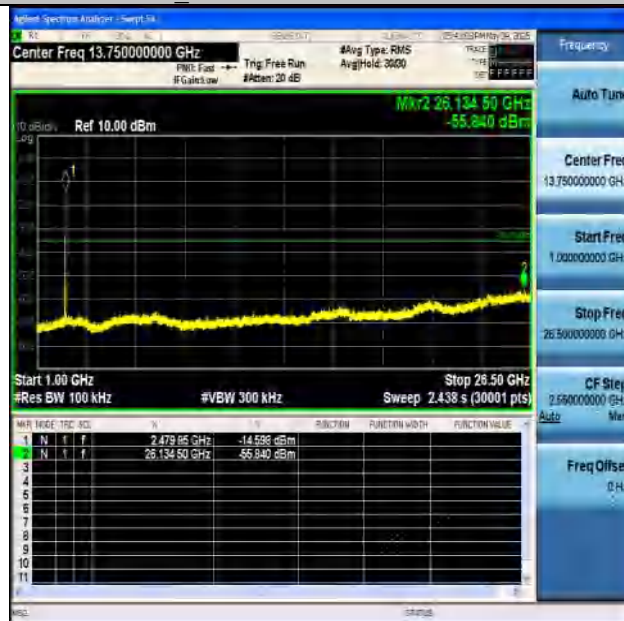
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BLE_1M-Ant1-2480-0~Reference-PASS



BLE_1M-Ant1-2480-30~1000-PASS



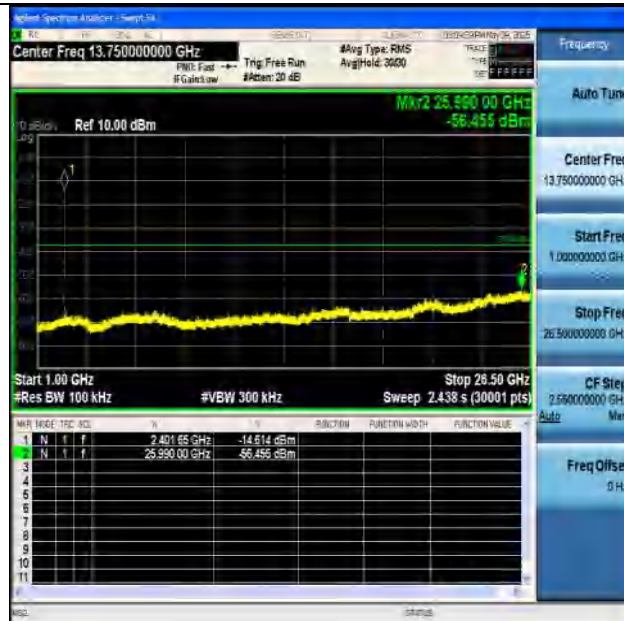
BLE_1M-Ant1-2480-1000~26500-PASS



BLE_2M-Ant1-2402-0~Reference-PASS



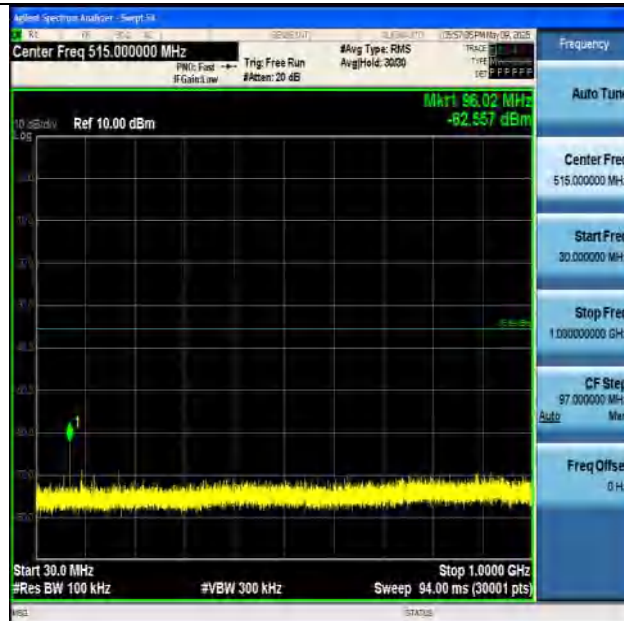
BLE_2M-Ant1-2402-30~1000-PASS



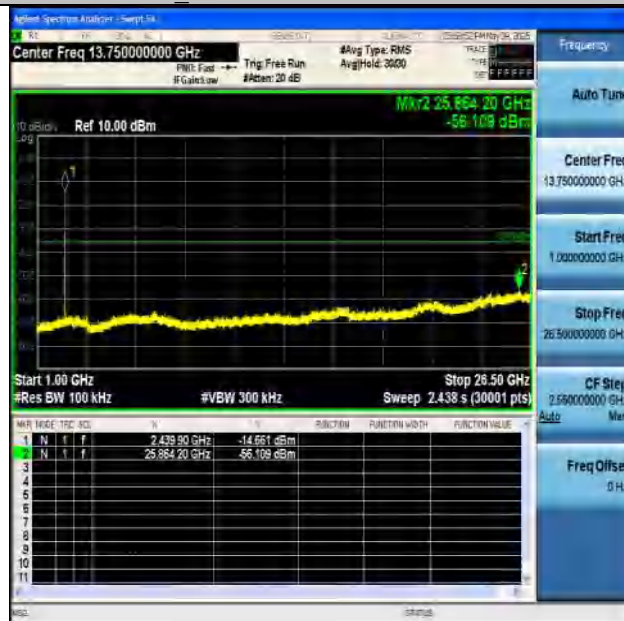
BLE_2M-Ant1-2402-1000~26500-PASS



BLE_2M-Ant1-2440-0~Reference-PASS



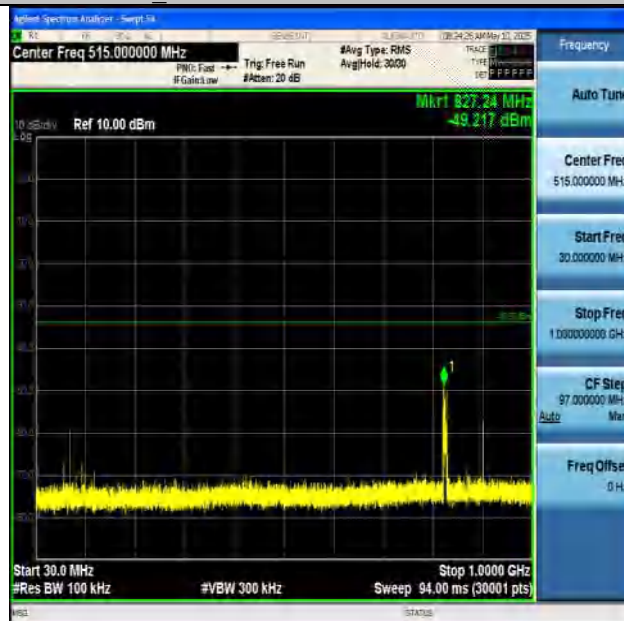
BLE_2M-Ant1-2440-30~1000-PASS



BLE_2M-Ant1-2440-1000~26500-PASS



BLE_2M-Ant1-2480-0~Reference-PASS



BLE_2M-Ant1-2480-30~1000-PASS



BLE_2M-Ant1-2480-1000~26500-PASS

Appendix B.5: 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.

30 MHz - 1GHz



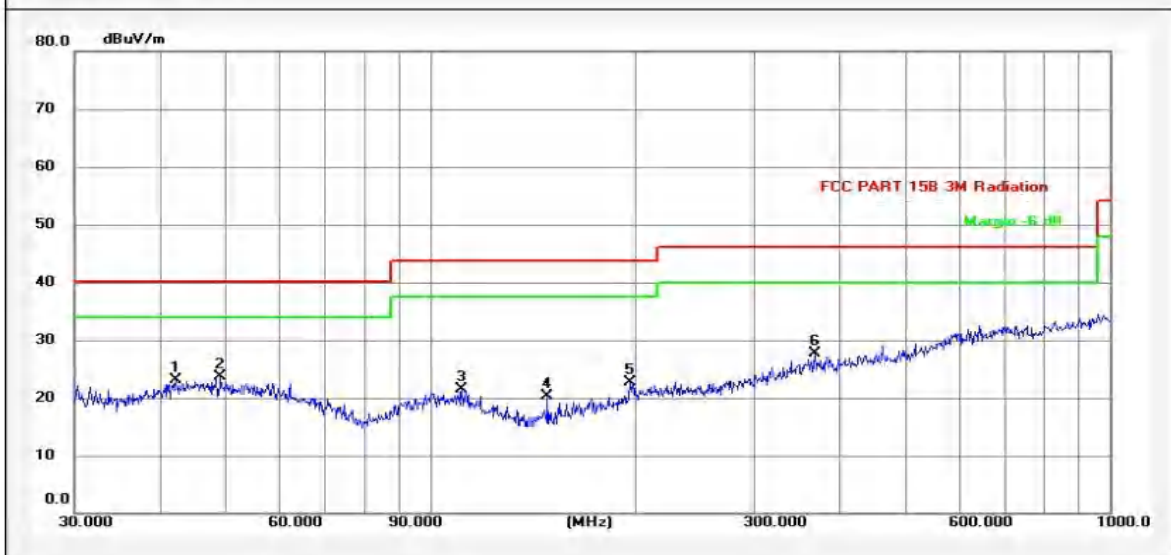
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.2 (C) / 55 %RH/ 1014
Test Standard: FCC PART 15B 3M Radiation	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2480MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	42.3021	14.08	9.04	23.12	40.00	-16.88	QP		
2	49.1865	14.48	9.22	23.70	40.00	-16.30	QP	*	
3	111.3468	11.91	9.53	21.44	43.50	-22.06	QP		
4	148.9624	9.38	11.01	20.39	43.50	-23.11	QP		
5	196.5098	12.48	10.27	22.75	43.50	-20.75	QP		
6	368.1116	16.92	10.86	27.78	46.00	-18.22	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: 30-1GIData :#6





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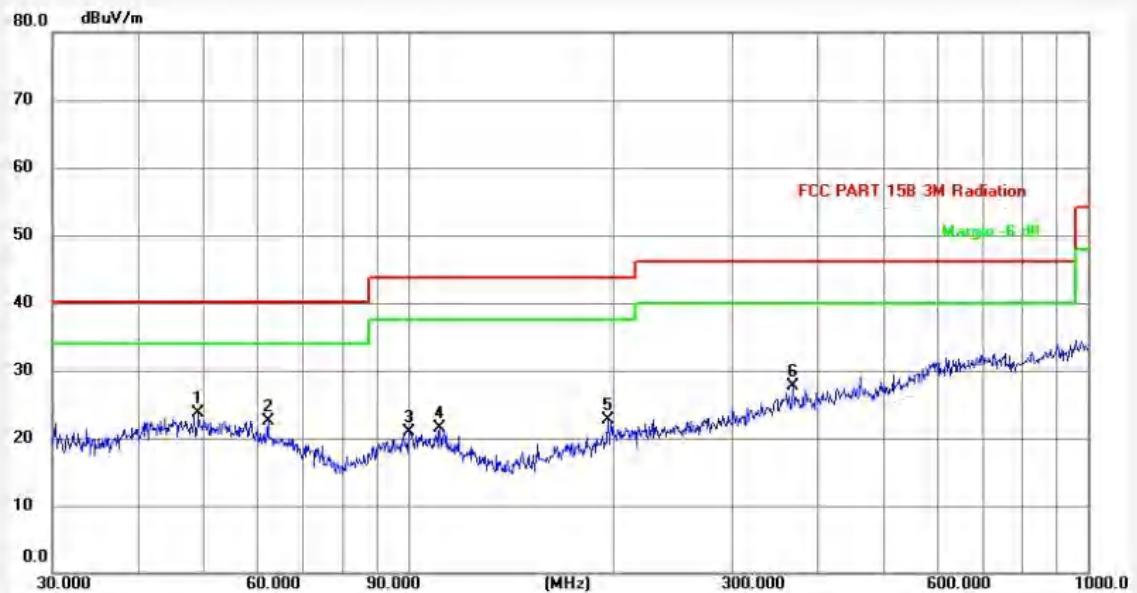
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2480MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	49.1865	14.48	9.22	23.70	40.00	-16.30	QP	*	
2	62.2128	12.86	9.68	22.54	40.00	-17.46	QP		
3	100.2284	12.61	8.34	20.95	43.50	-22.55	QP		
4	111.3468	11.91	9.53	21.44	43.50	-22.06	QP		
5	196.5098	12.48	10.27	22.75	43.50	-20.75	QP		
6	368.1116	16.92	10.86	27.78	46.00	-18.22	QP		

Note: Level=Reading+Factor, Over=Level-Limit.
MK.: *Maximum data x: Over limit !: Over margin

File: 30-1G\Data :#5





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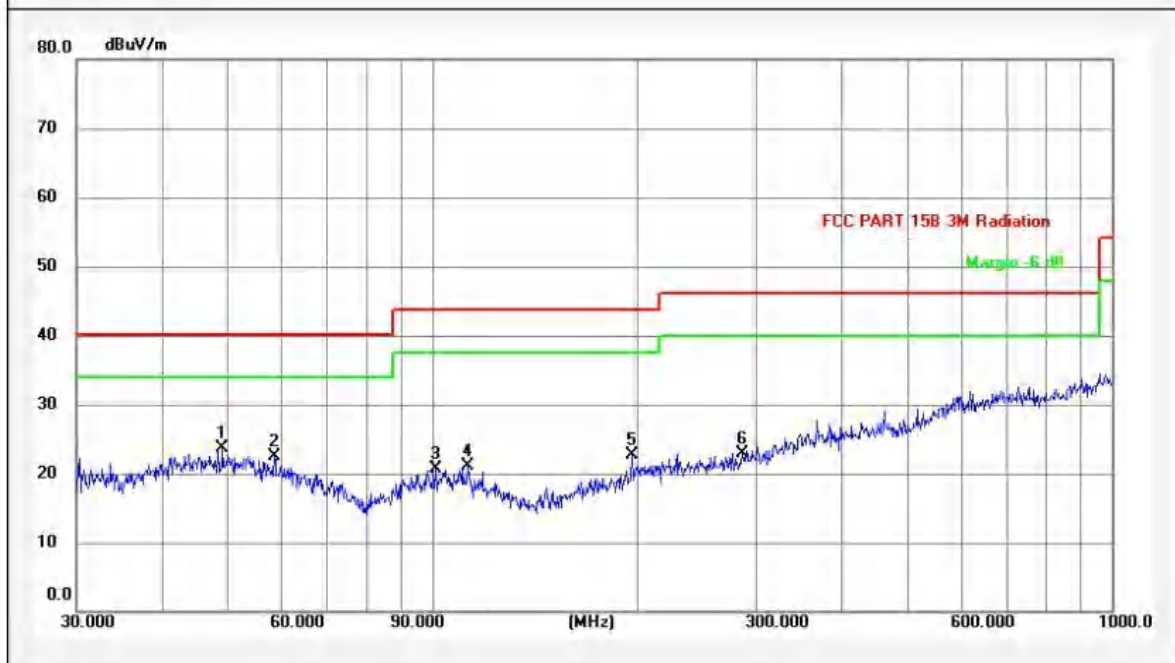
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2440MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	49.1865	14.48	9.22	23.70	40.00	-16.30	QP	*	
2	58.6126	13.53	8.97	22.50	40.00	-17.50	QP		
3	101.2883	12.55	8.14	20.69	43.50	-22.81	QP		
4	112.9196	11.82	9.24	21.06	43.50	-22.44	QP		
5	196.5098	12.48	10.27	22.75	43.50	-20.75	QP		
6	285.9777	14.38	8.51	22.89	46.00	-23.11	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.*:Maximum data x:Over limit !:Over margin

File: 30-1GIData :#4





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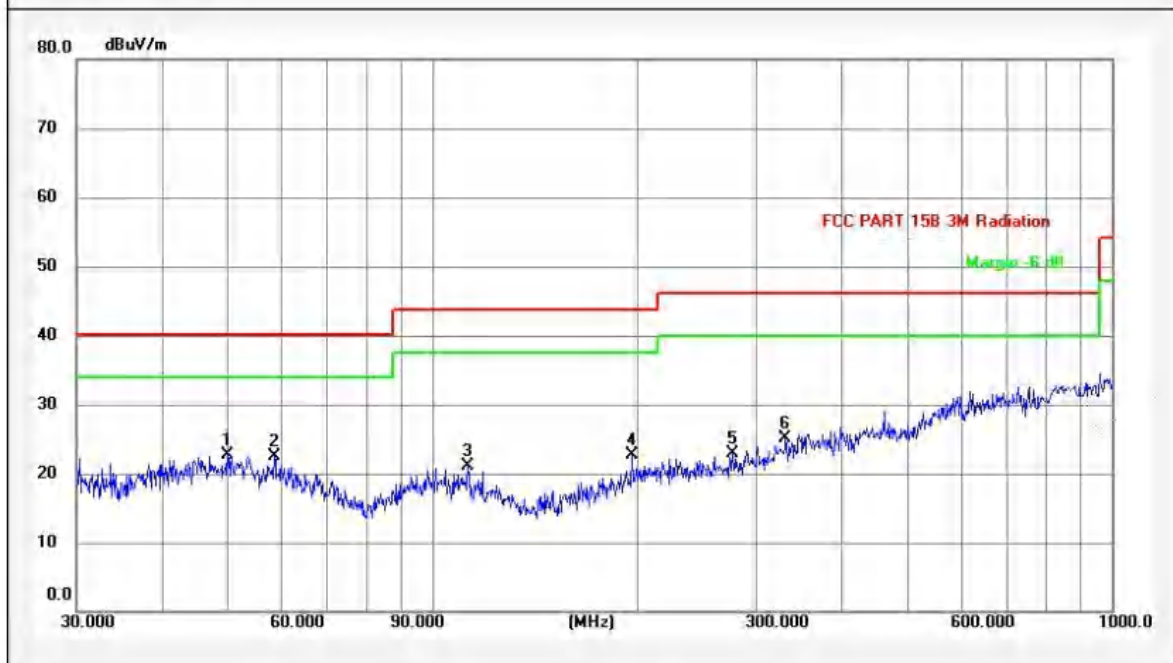
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2440MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	50.0566	14.40	8.26	22.66	40.00	-17.34	QP	*	
2	58.6126	13.53	8.97	22.50	40.00	-17.50	QP		
3	112.9196	11.82	9.24	21.06	43.50	-22.44	QP		
4	196.5098	12.48	10.27	22.75	43.50	-20.75	QP		
5	277.0935	14.16	8.70	22.86	46.00	-23.14	QP		
6	331.3546	16.07	9.01	25.08	46.00	-20.92	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: 30-1GIData :#3





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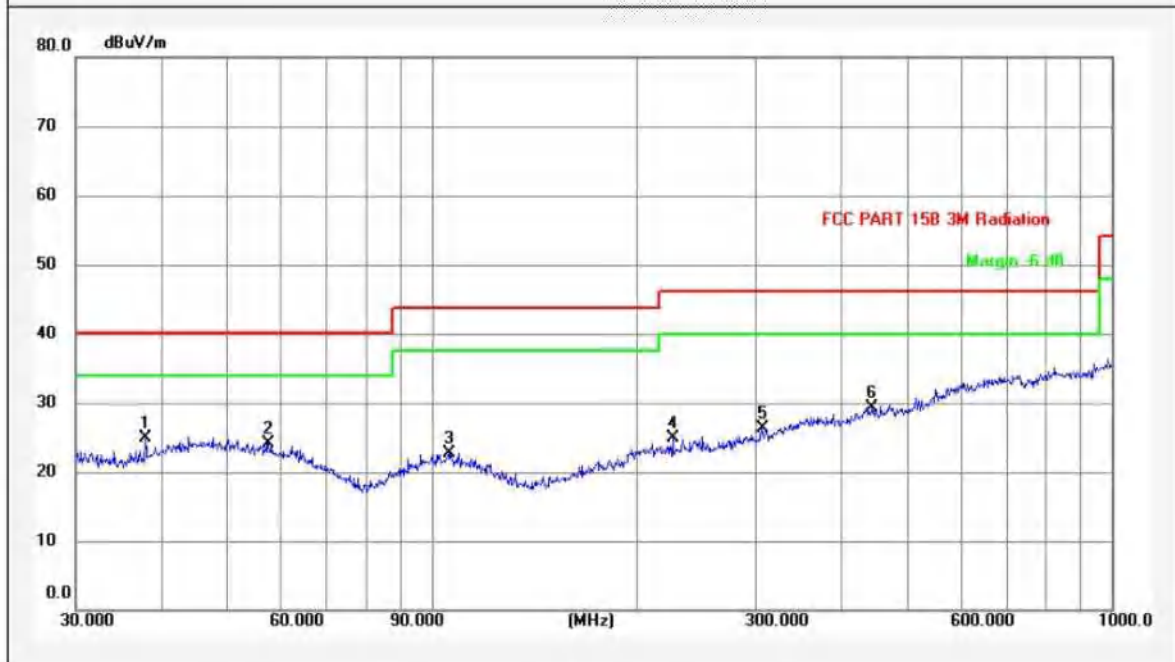
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	37.9448	12.80	12.06	24.86	40.00	-15.14	QP	*	
2	57.5938	13.63	10.57	24.20	40.00	-15.80	QP		
3	106.3850	12.22	10.42	22.64	43.50	-20.86	QP		
4	226.0994	13.28	11.65	24.93	46.00	-21.07	QP		
5	305.6800	14.97	11.32	26.29	46.00	-19.71	QP		
6	444.8514	17.95	11.30	29.25	46.00	-16.75	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: 30-1GIData :#2





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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC PART 15B 3M Radiation
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2402MHz

Temp: 23.2 (C) / 55 %RH/ 1014
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	43.9658	14.51	10.50	25.01	40.00	-14.99	QP	*	
2	47.6584	14.59	10.23	24.82	40.00	-15.18	QP		
3	106.3850	12.22	10.42	22.64	43.50	-20.86	QP		
4	197.2000	12.59	10.75	23.34	43.50	-20.16	QP		
5	250.3010	13.50	11.61	25.11	46.00	-20.89	QP		
6	354.1831	16.88	10.65	27.53	46.00	-18.47	QP		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: 30-1G\Data :#1



1GHz - 18GHz

Note: The highest waveform in the figure is Bluetooth Fundamental.



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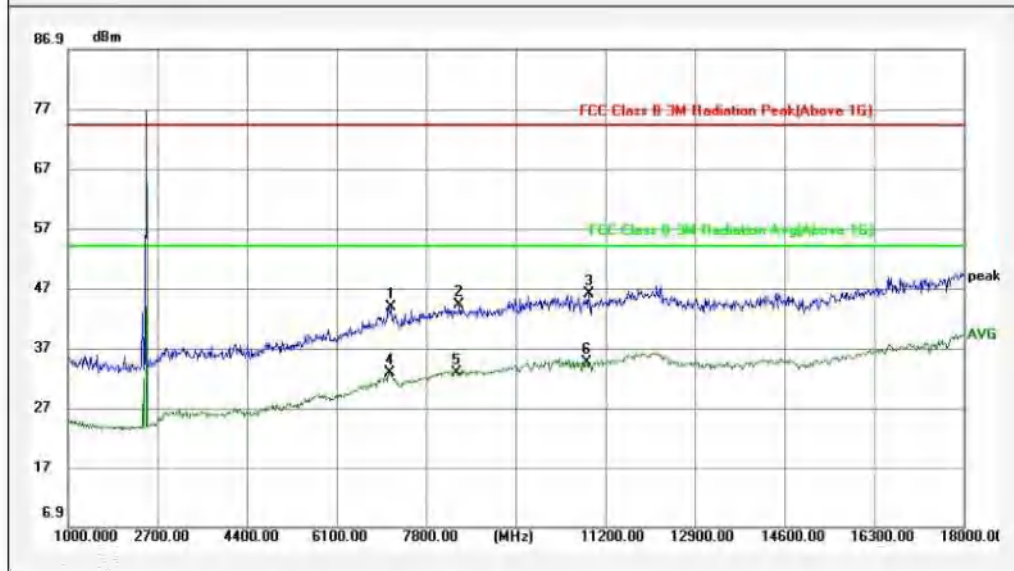
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7120.000	2.74	41.06	43.80	74.00	-30.20	peak		
2	8429.000	2.95	41.23	44.18	74.00	-29.82	peak		
3	10894.000	5.74	40.32	46.06	74.00	-27.94	peak		
4	7103.000	2.74	30.11	32.85	54.00	-21.15	AVG		
5	8378.000	2.85	30.00	32.85	54.00	-21.15	AVG		
6	10843.000	5.67	28.87	34.54	54.00	-19.46	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#6





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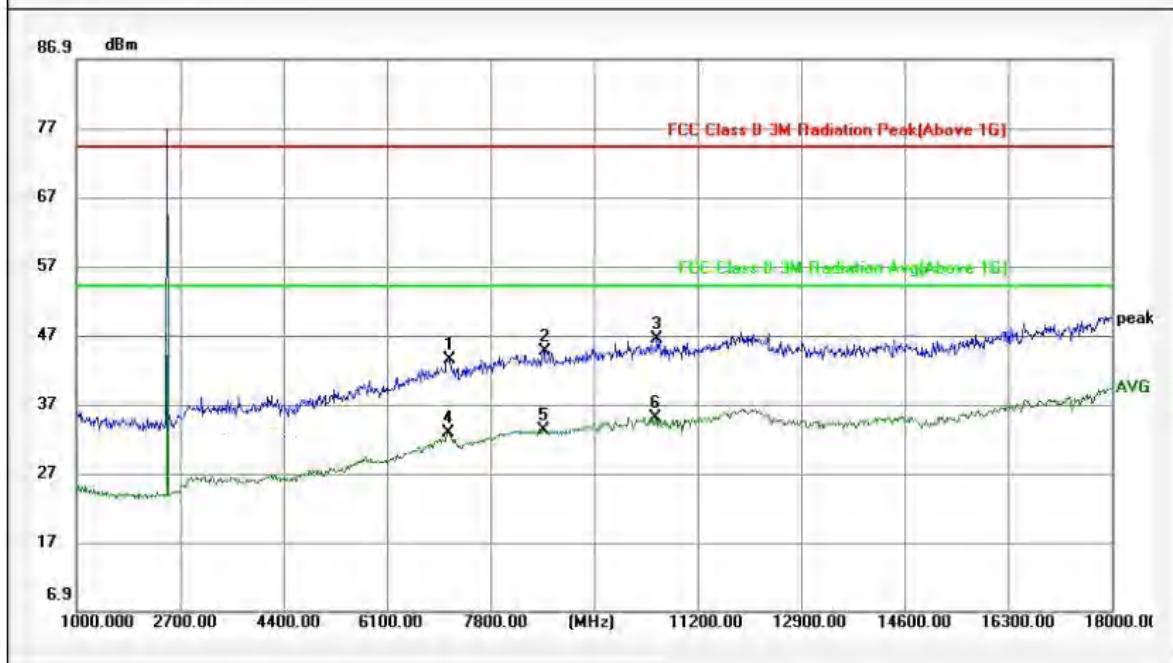
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7137.000	2.74	40.67	43.41	74.00	-30.59	peak		
2	8684.000	3.44	41.26	44.70	74.00	-29.30	peak		
3	10537.000	5.23	41.27	46.50	74.00	-27.50	peak		
4	7103.000	2.74	30.14	32.88	54.00	-21.12	AVG		
5	8667.000	3.41	29.83	33.24	54.00	-20.76	AVG		
6	10503.000	5.18	29.85	35.03	54.00	-18.97	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#5





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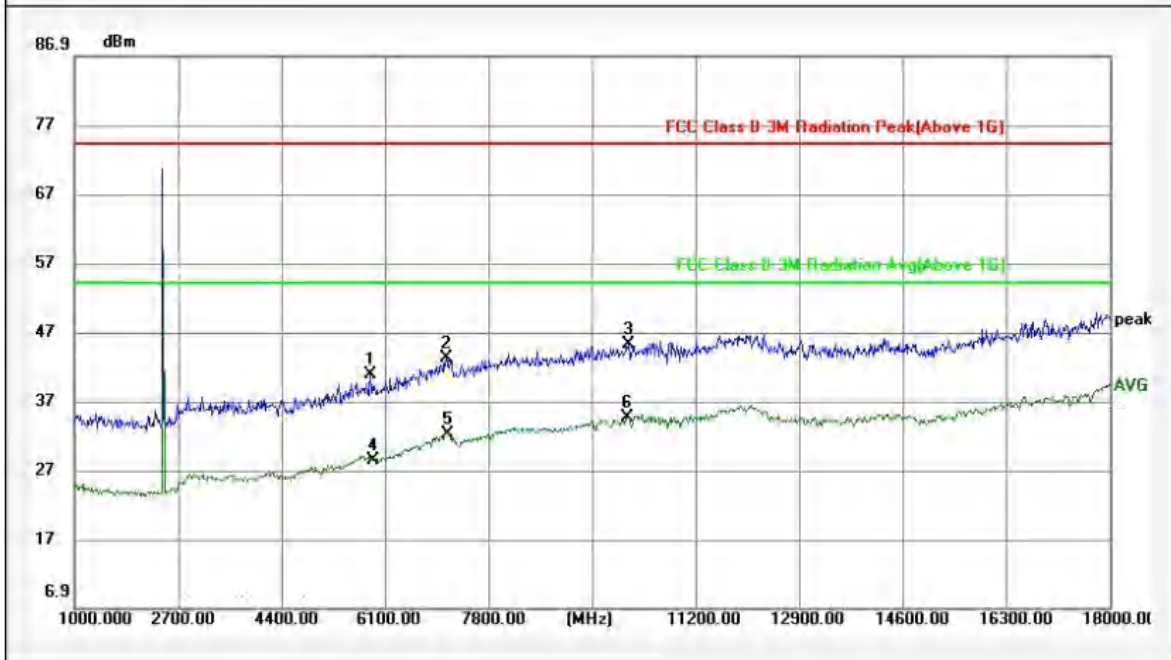
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2440MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	5862.000	-0.46	41.22	40.76	74.00	-33.24	peak		
2	7103.000	2.74	40.56	43.30	74.00	-30.70	peak		
3	10095.000	4.59	40.69	45.28	74.00	-28.72	peak		
4	5896.000	-0.36	28.83	28.47	54.00	-25.53	AVG		
5	7120.000	2.74	29.50	32.24	54.00	-21.76	AVG		
6	10078.000	4.57	29.94	34.51	54.00	-19.49	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\Data :#4





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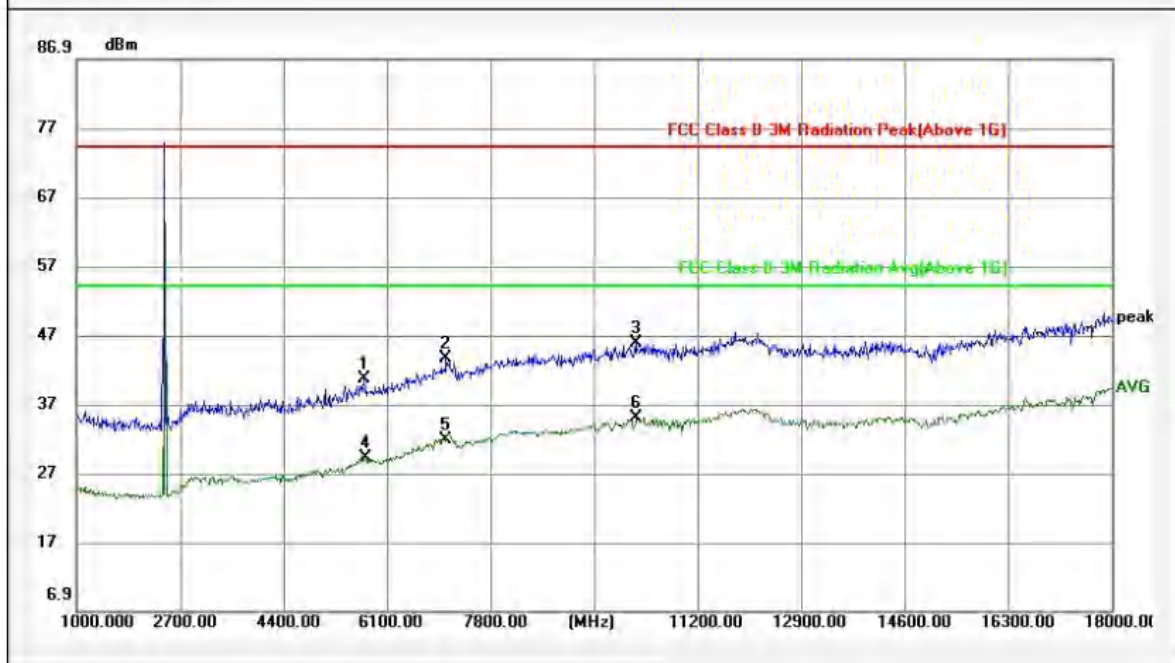
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2440MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	5726.000	-0.92	41.49	40.57	74.00	-33.43	peak		
2	7069.000	2.76	40.82	43.58	74.00	-30.42	peak		
3	10180.000	4.72	41.12	45.84	74.00	-28.16	peak		
4	5743.000	-0.86	30.14	29.28	54.00	-24.72	AVG		
5	7069.000	2.76	29.06	31.82	54.00	-22.18	AVG		
6	10197.000	4.75	30.16	34.91	54.00	-19.09	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-RSE\data :#3





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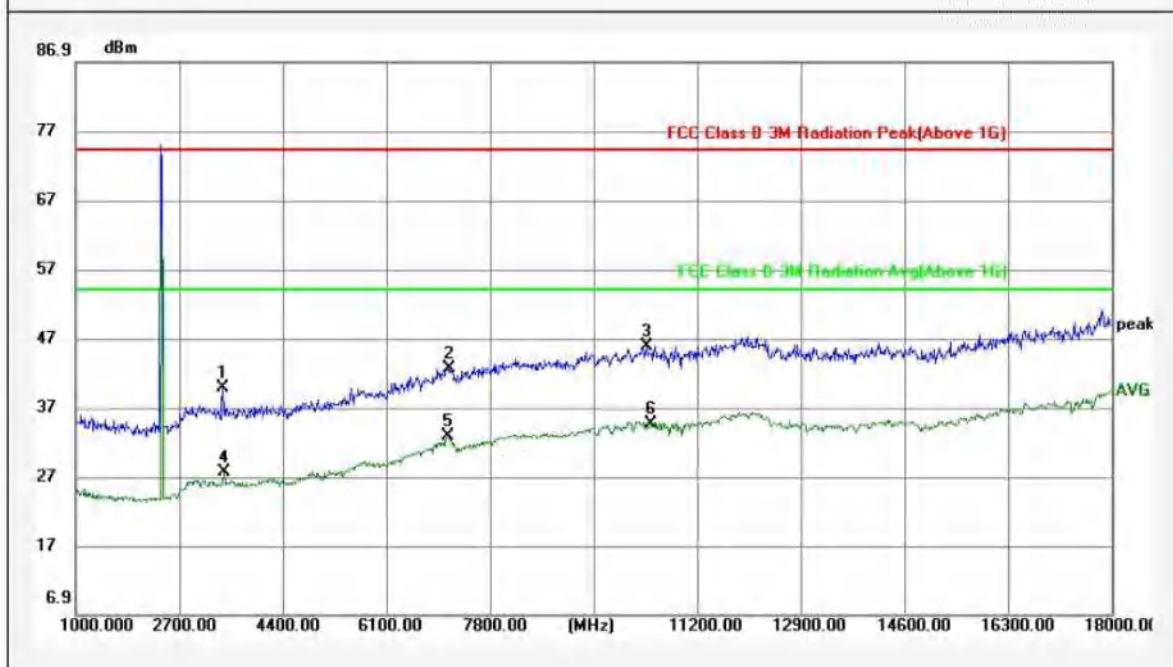
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2402MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	3414.000	-3.55	43.33	39.78	74.00	-34.22	peak		
2	7120.000	2.74	39.77	42.51	74.00	-31.49	peak		
3	10367.000	4.98	40.87	45.85	74.00	-28.15	peak		
4	3431.000	-3.53	31.08	27.55	54.00	-26.45	AVG		
5	7103.000	2.74	30.02	32.76	54.00	-21.24	AVG		
6	10435.000	5.08	29.51	34.59	54.00	-19.41	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin
File: OB1970-RSEldata :#2





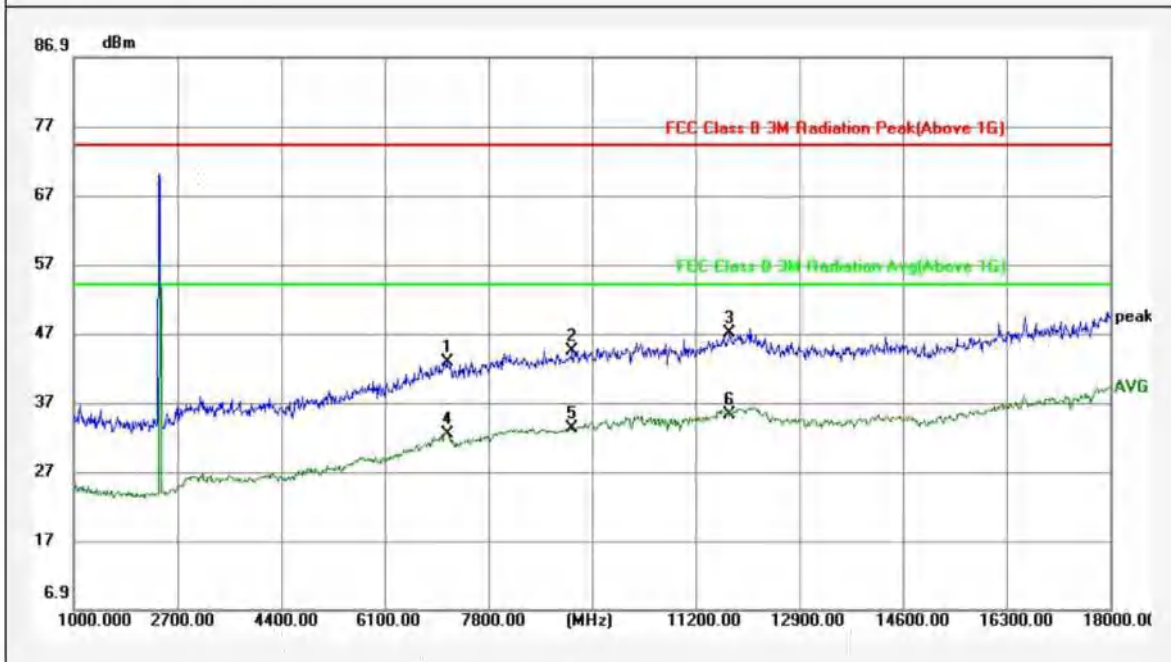
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	7120.000	2.74	40.03	42.77	74.00	-31.23	peak		
2	9177.000	4.11	40.27	44.38	74.00	-29.62	peak		
3	11761.000	7.36	39.58	46.94	74.00	-27.06	peak		
4	7120.000	2.74	29.68	32.42	54.00	-21.58	AVG		
5	9177.000	4.11	29.15	33.26	54.00	-20.74	AVG		
6	11744.000	7.32	27.82	35.14	54.00	-18.86	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin
File: OB1970-RSEIData :#1



Appendix B.6: Test Results of Radiated Emissions in Restricted Bands



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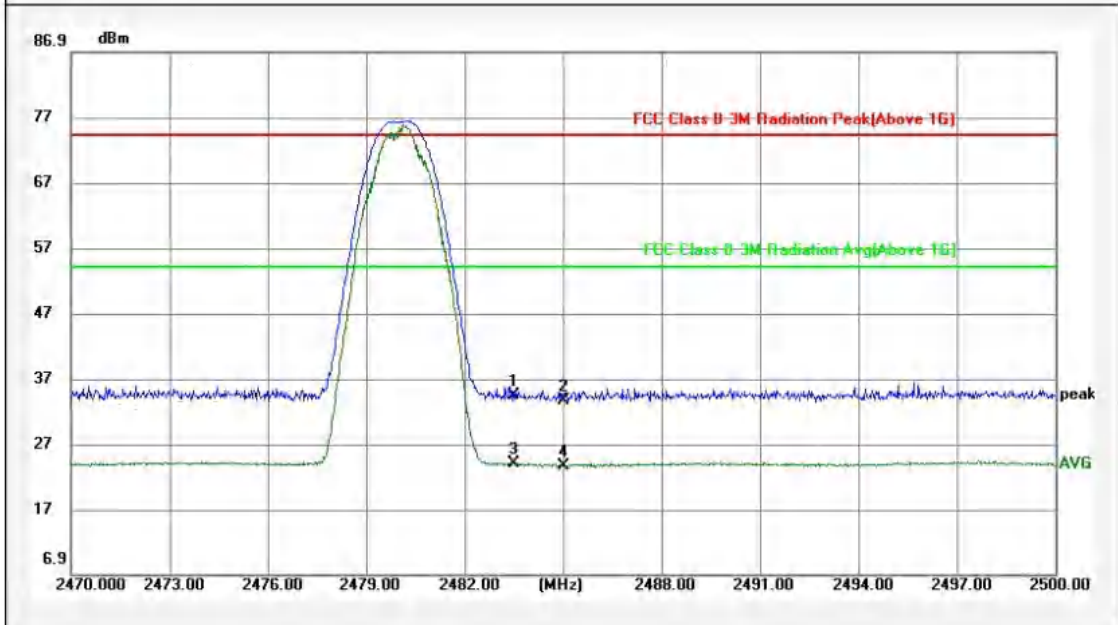
Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Dongle
Model No.: OB1970
Test Mode: TX
Remark 1: 2480MHz

Temp: 23.7 (C) / 52 %RH/ 1026
Test Engineer: Claire
Power Rating: DC 5V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	40.38	34.39	74.00	-39.61	peak		
2	2485.000	-5.99	39.67	33.68	74.00	-40.32	peak		
3	2483.500	-5.99	29.99	24.00	54.00	-30.00	AVG	*	
4	2485.000	-5.99	29.68	23.69	54.00	-30.31	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-BAND\Data :#4





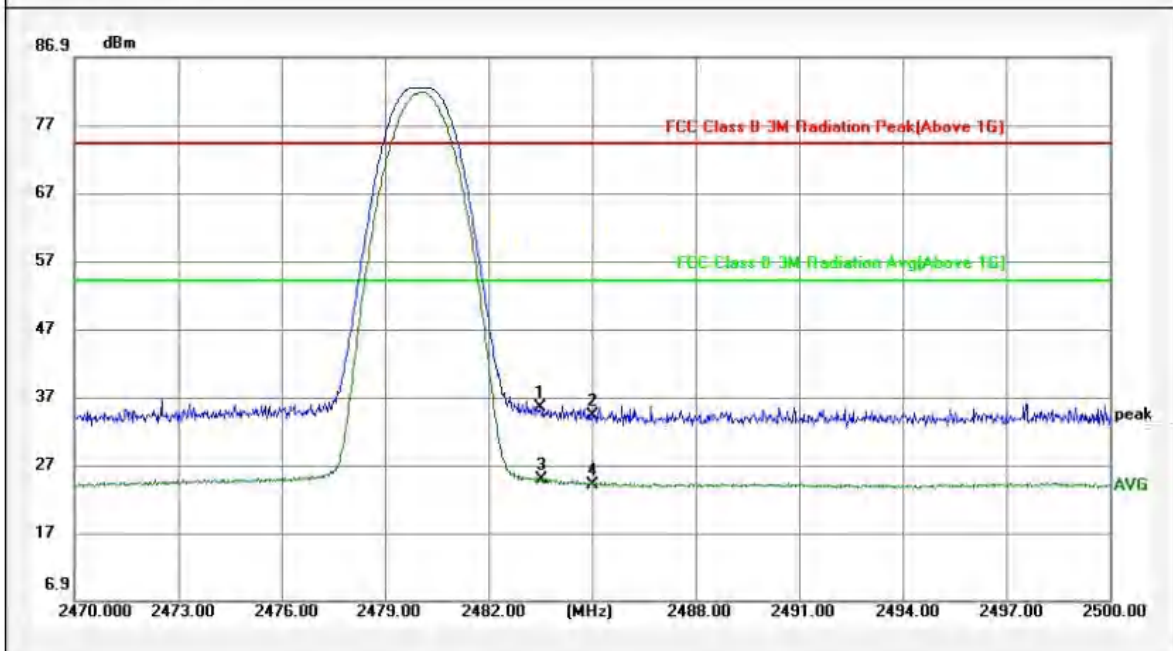
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 2480MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2483.500	-5.99	41.36	35.37	74.00	-38.63	peak		
2	2485.000	-5.99	40.23	34.24	74.00	-39.76	peak		
3	2483.530	-5.99	30.79	24.80	54.00	-29.20	AVG	*	
4	2485.000	-5.99	30.04	24.05	54.00	-29.95	AVG		

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-BAND\Data :#3





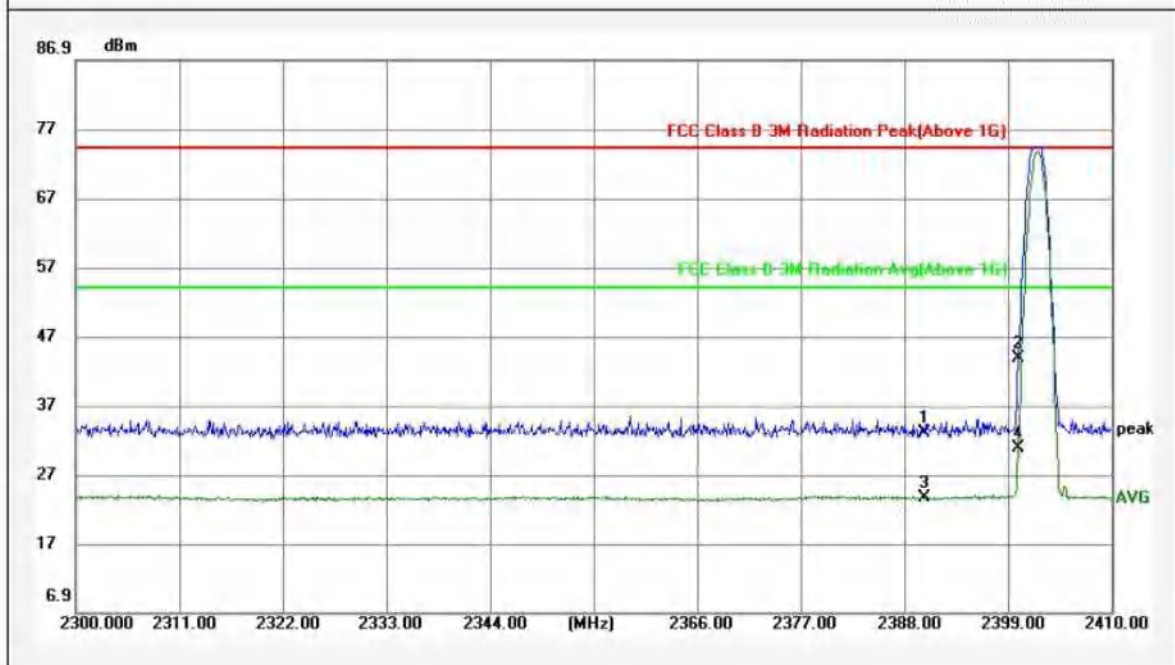
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Vertical
Test Mode: TX		
Remark 1: 2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	39.25	32.92	74.00	-41.08	peak		
2	2400.000	-6.29	50.09	43.80	74.00	-30.20	peak		
3	2390.090	-6.33	30.01	23.68	54.00	-30.32	AVG		
4	2400.100	-6.29	37.17	30.88	54.00	-23.12	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:*Maximum data x:Over limit !:Over margin

File: OB1970-BAND1Data :#2





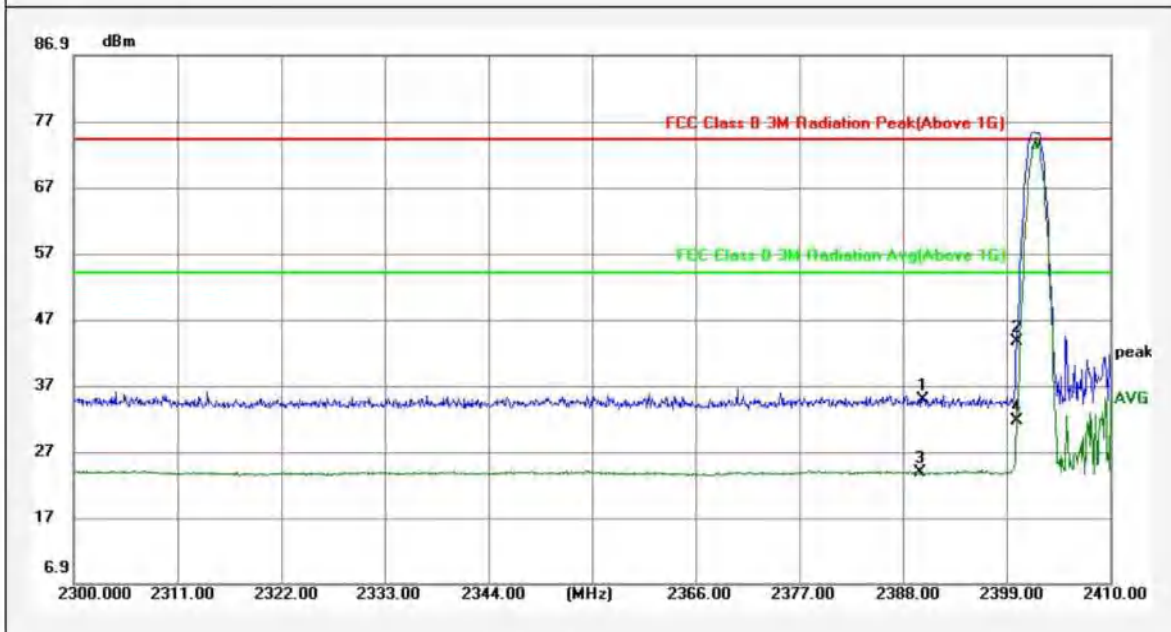
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Radiation Emission

Site: 966 Chamber 1

2025/5/17

Job No.:	Temp:	23.7 (C) / 52 %RH/ 1026
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Claire
EUT: Dongle	Power Rating:	DC 5V
Model No.: OB1970	Ant. Polarization:	Horizontal
Test Mode: TX		
Remark 1: 2402MHz		



No.	Frequency (MHz)	Factor (dBm)	Reading (dBuV)	Level (dBm)	Limit (dBm)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-6.33	41.19	34.86	74.00	-39.14	peak		
2	2400.000	-6.29	49.81	43.52	74.00	-30.48	peak		
3	2389.760	-6.33	30.11	23.78	54.00	-30.22	AVG		
4	2400.100	-6.29	37.89	31.60	54.00	-22.40	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.
MK.:Maximum data x:Over limit !:Over margin

File: OB1970-BAND\Data :#1





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Conduction Emission

Site:Shielded Room 1

2025/3/13

Job No.: LP24070228C05-01
Test Standard: Conduction(QP)
EUT: Modern Wireless Headset
Model No.: 1) OB1998, 2) OB1970
Test Mode: Working
Remark: 1) Modern Wireless Headset, 2) Dongle

Temp: 21.5(C) / 48 % / 1015 hpa
Test Engineer: Lucas
Power Rating: DC 5V
Phase: N



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1785	10.23	35.02	45.25	64.56	-19.31	QP	P	
2	0.1785	10.23	27.69	37.92	54.56	-16.64	AVG	P	
3	0.2516	10.25	32.40	42.65	61.70	-19.05	QP	P	
4	0.2516	10.25	25.19	35.44	51.70	-16.26	AVG	P	
5	0.3632	10.29	28.70	38.99	58.65	-19.66	QP	P	
6	0.3632	10.29	18.60	28.89	48.65	-19.76	AVG	P	
7	0.7322	10.38	30.28	40.66	56.00	-15.34	QP	P	
8	0.7322	10.38	18.19	28.57	46.00	-17.43	AVG	P	
9	6.7622	10.66	29.71	40.37	60.00	-19.63	QP	P	
10	6.7622	10.66	23.67	34.33	50.00	-15.67	AVG	P	
11	9.3007	10.75	29.49	40.24	60.00	-19.76	QP	P	
12	9.3007	10.75	23.68	34.43	50.00	-15.57	AVG	P	

Note: Level=Reading+Factor.

Margin=Level-Limit.

File:1) OB1998, 2) OB1970\#6





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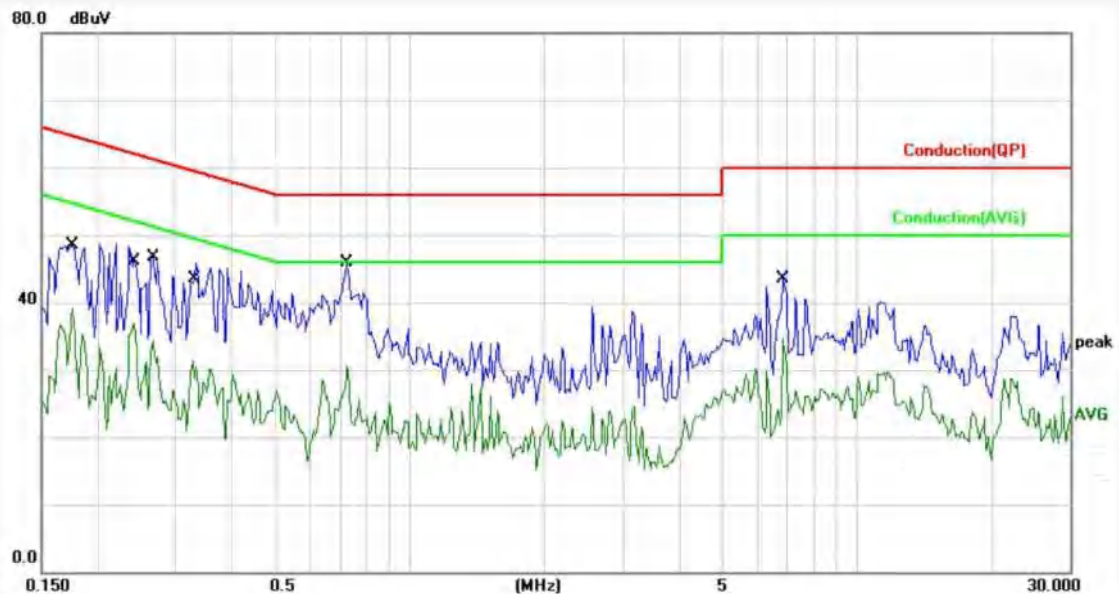
Conduction Emission

Site:Shielded Room 1

2025/3/13

Job No.: LP24070228C05-01
Test Standard: Conduction(QP)
EUT: Modern Wireless Headset
Model No.: 1) OB1998, 2) OB1970
Test Mode: Working
Remark: 1) Modern Wireless Headset, 2) Dongle

Temp: 21.5(C) / 48 %/ 1015 hpa
Test Engineer: Lucas
Power Rating: DC 5V
Phase: L1



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1760	10.18	35.40	45.58	64.67	-19.09	QP	P	
2	0.1760	10.18	28.93	39.11	54.67	-15.56	AVG	P	
3	0.2420	10.21	35.00	45.21	62.03	-16.82	QP	P	
4	0.2420	10.21	26.60	36.81	52.03	-15.22	AVG	P	
5	0.2661	10.21	33.58	43.79	61.24	-17.45	QP	P	
6	0.2661	10.21	24.11	34.32	51.24	-16.92	AVG	P	
7	0.3274	10.24	32.68	42.92	59.52	-16.60	QP	P	
8	0.3274	10.24	21.03	31.27	49.52	-18.25	AVG	P	
9	0.7265	10.36	32.64	43.00	56.00	-13.00	QP	P	
10	0.7265	10.36	20.17	30.53	46.00	-15.47	AVG	P	
11	6.8163	10.68	29.91	40.59	60.00	-19.41	QP	P	
12	6.8163	10.68	24.01	34.69	50.00	-15.31	AVG	P	

Note: Level=Reading+Factor.

Margin=Level-Limit.

File:1) OB1998, 2) OB1970/#5

