

Prüfbericht-Nr.: Test report no.:	CN24DGHY 001	Auftrags-Nr.: Order no.:	170392032	Seite 1 von 21 Page 1 of 21
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-10-25	
Auftraggeber: Client:	ONWARD BRANDS LLC 767 5TH AVE FL 37TH NEW YORK, NY 10153 USA			
Prüfgegenstand: Test item:	Incase Bluetooth Mouse			
Bezeichnung / Typ-Nr.: Identification / Type no.:	OB1929			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	FCC CFR Title 47, Part 15, Subpart C, Section 15.247 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 March 2019			
Wareneingangsdatum: Date of sample receipt:	2024-10-25	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	LP24070228C07-S033			
Prüfzeitraum: Testing period:	2024-10-20 - 2024-10-31			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Guangdong) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2024-12-05	Ausstellungsdatum: Issue date:	2024-12-05	
Stellung / Position:	Sachverständige(r)/Expert		Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: 2BCOY-OB1929 IC: 32736-OB1929 HVIN: OB1929			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable
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. 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.				

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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>
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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>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

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: Photographs of the Test Set-up

Appendix B: Test Results of Bluetooth Low energy

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

The all tests at this test 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				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Spectrum analyzer	Agilent	N9020A	MY49100060	Jan. 25, 2025
Vector source	Agilent	N5182A	MY47420382	Jan. 25, 2025
Analog signal source	Agilent	N5171B	MY51350292	Jan. 25, 2025
All instrument	Rohde & Schwarz	CMW 500	1201.002K50	Jan. 25, 2025
High and low temperature chamber	Math-mart	MT-1202-40	LEP-E041	Jan. 25, 2025
control unit	Tonscend	JS0806-2	10165	Jan. 25, 2025
Testing software	Tonscend	JSTS1120-3	Ver 2.6.77.0518	Jan. 25, 2025
Unwanted Emission Testing				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	Rohde & Schwarz	ESR 3	101849	Jan. 30, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	743	Nov. 19, 2025
Signal Amplifier	HP	8447D	1726A01222	Jan. 23, 2025
Spectrum analyzer	Agilent	N9020A	MY49100060	Nov. 19, 2025
Horn antenna	Schwarzbeck	BBHA 9120D	01875	Jan. 23, 2025
Preamplifier	Schwarzbeck	BBN 9718B	00010	Nov. 16, 2025
6dB Attenuator	RswTech	5W 6dB	LEP-E084	Jan. 23, 2025
966 Chamber 1	MR	MR-L02	LEP-E051	Nov. 16, 2025
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	$\pm 1.06\text{dB}$
Occupied Channel Bandwidth	± 1.42
RF power density, conducted	$\pm 1.06\text{dB}$
Unwanted Emissions, conducted	$\pm 2.51\text{dB}$
All emissions, radiated	$\pm 3.70\text{dB}$
Conducted Emission 150kHz to 30MHz	$\pm 2.44\text{dB}$

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 Bluetooth mouse, which supports Bluetooth (Low Energy) wireless technology.

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:	Incase Bluetooth Mouse
Type Designation:	OB1929
FCC ID:	2BCOY-OB1929
IC:	32736-OB1929
HVIN:	OB1929
Rated Input	DC 1.5V, 50mA
Operating Voltage:	DC 1.5V (supplied by "AA" battery x 1)
Testing Voltage:	DC 1.5V
Technical Specification of Bluetooth (Low Energy)	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1Mbps
Channel Separation:	2 MHz
Antenna Type:	PCB Layout antenna
Antenna Gain:	2.3 dBi

Table 4: RF Channel and Frequency of Bluetooth (Low Energy)

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

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Bluetooth Low Energy transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal Working with Bluetooth connected
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

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.

4.3 Special Accessories and Auxiliary Equipment

Table 5: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	Xiaoxin Pro IA5HR	PF490VB0	N/A

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)

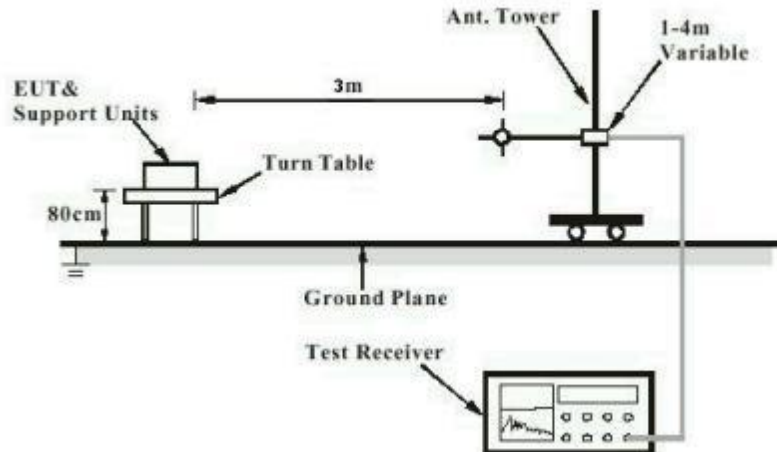
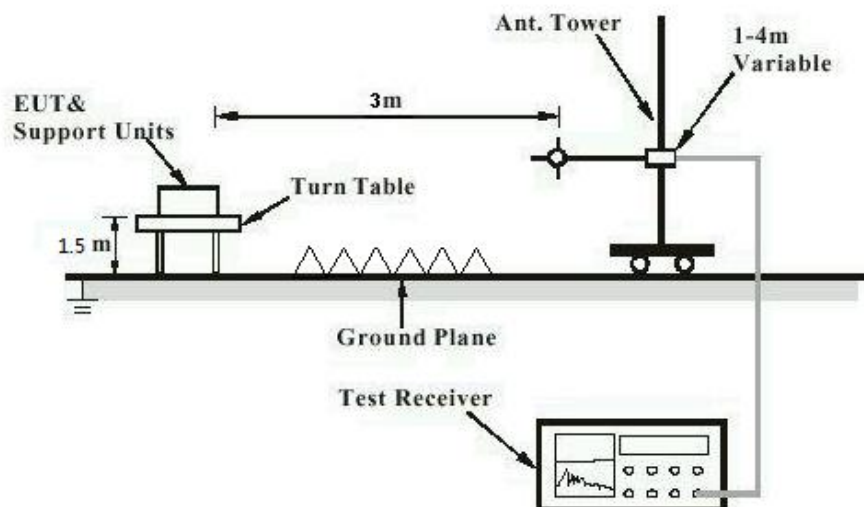


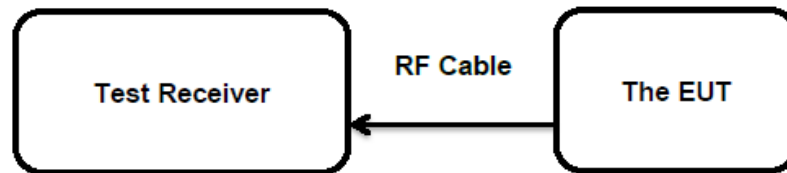
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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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 PCB antenna, the directional gain of antenna is 2.3 dBi, 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.

5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(b)(3) RSS-247 Clause 5.4(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 1.0 Watts
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-10-31
Input voltage	: DC 1.5 V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 49.2 %
Atmospheric pressure	: 101 kPa

Table 6: Test Result of Maximum Peak Conducted Output Power

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth (Low Energy)	1Mbps	2402	2.25	0.00168	< 1.0
		2440	1.86	0.00153	
		2480	1.43	0.00139	
Maximum Measured Value			2.25	0.00168	

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.3 dBi,
e.i.r.p.=P_(Peak power)+ G, which is far below the 4 W

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	:	2024-11-1
Input voltage	:	DC 1.5 V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	23.6 °C
Relative humidity	:	49.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

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	:	2024-11-1
Input voltage	:	DC 1.5 V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	23.6 °C
Relative humidity	:	49.2 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix B.

5.1.5 99% Bandwidth

RESULT: Pass

Test Specification

Test standard : RSS-Gen Clause 6.7
 Basic standard : ANSI C63.10: 2013
 Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-11-1
 Input voltage : DC 1.5 V
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 23.6 °C
 Relative humidity : 49.2 %
 Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) RSS-247 Clause 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	: 2024-11-1
Input voltage	: DC 1.5 V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 23.6 °C
Relative humidity	: 49.2 %
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 B.

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5.1.7 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 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 : 2024-10-24-2024-10-26
Input voltage : DC 1.5 V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101.3 kPa

Remark:

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

For the measurement records, refer to the appendix B.

6 Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test item	Incase Bluetooth Mouse
Identification / Type No.	OB1929
FCC ID	2BCOY-OB1929
IC	32736-OB1929
HVIN	OB1929
Test standard	CFR47 FCC Part 2: Section 2.1093 FCC KDB Publication 447498 v06 RSS-102 Issue 6 December 15, 2023

Measurement Record:

The minimum distance for the EUT is less than 5mm.

For FCC:

Since maximum peak output power of the transmitter is 2.25 dBm ≈ 1.68 mW $< \frac{3 \cdot d}{\sqrt{f}} = 9.68$ mW.

Hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01 General RF Exposure Guidance v06.

For IC:

The higher of the maximum e.i.r.p. or conducted power of the transmitter is 4.55 dBm ≈ 2.85 mW, which is below the SAR exclusion threshold level 3 mW ≈ 4.77 dBm.

Hence the EUT is exempted from routine evaluation limits (SAR Evaluation) according to clause 2.5.1 of RSS-102 Issue 5.

7 Photographs of the Test Set-Up

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

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APPENDIX B: TEST RESULTS OF BLUETOOTH (LOW ENERGY)

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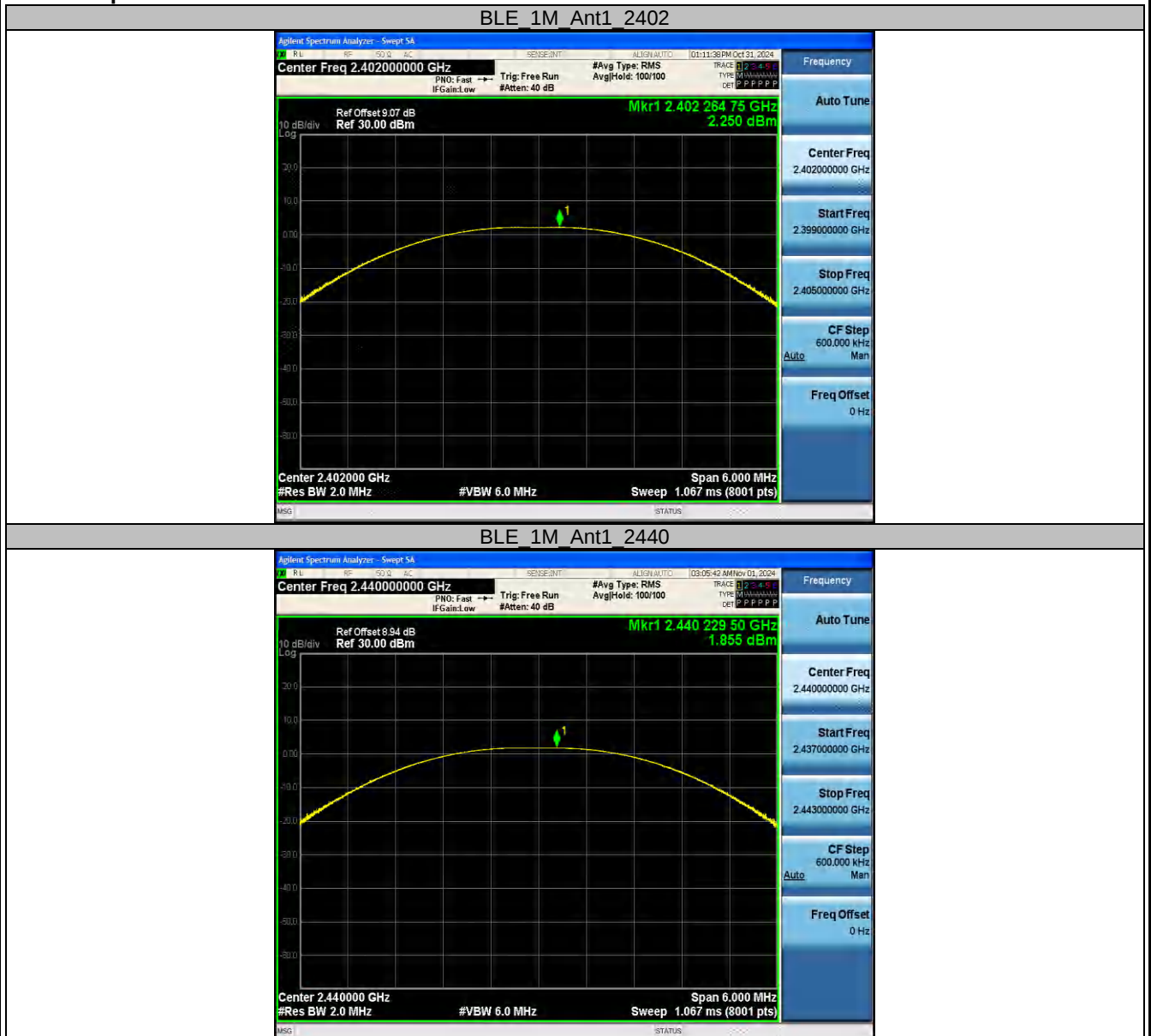
APPENDIX B.1: MAXIMUM CONDUCTED OUTPUT POWER

Test Result Peak

TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	EIRP[dBm]	EIRP Limit[dBm]	Verdict
BLE_1M	Ant1	2402	2.25	≤30	4.55	≤36	PASS
		2440	1.86	≤30	4.16	≤36	PASS
		2480	1.43	≤30	3.73	≤36	PASS

Produkte
Products

Test Graphs Peak





APPENDIX B.2: CONDUCTED POWER SPECTRAL DENSITY

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-13.21	≤8.00	PASS
		2440	-13.83	≤8.00	PASS
		2480	-14.21	≤8.00	PASS

Test Graphs

BLE_1M Ant1 2402



BLE_1M Ant1 2440



BLE_1M_Ant1_2480



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APPENDIX B.3: 6dB BANDWIDTH

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.692	2401.624	2402.316	0.5	PASS
		2440	0.676	2439.636	2440.312	0.5	PASS
		2480	0.664	2479.640	2480.304	0.5	PASS

Test Graphs



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APPENDIX B.4: 99% BANDWIDTH

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0497	2401.4554	2402.5051	---	---
		2440	1.0549	2439.4566	2440.5115	---	---
		2480	1.0532	2479.4590	2480.5122	---	---

Test Graphs

BLE_1M Ant1 2402



BLE_1M Ant1 2440



BLE_1M_Ant1_2480

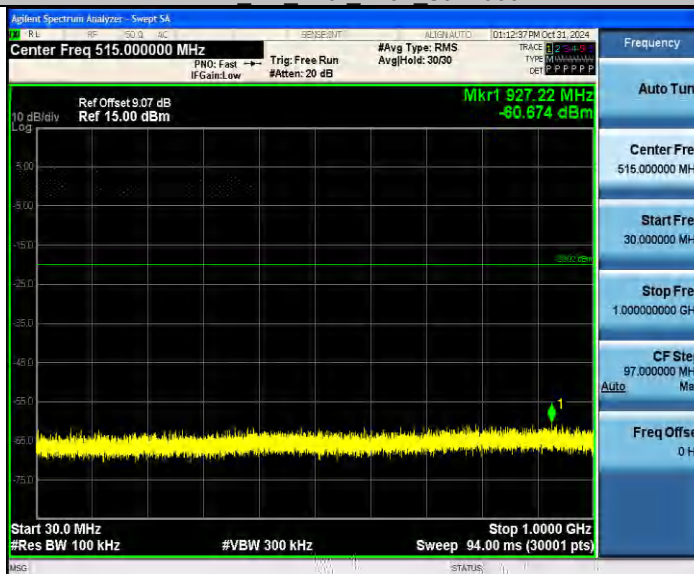


APPENDIX B.5: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

BLE 1M Ant1 2402 0-Reference



BLE 1M Ant1 2402 30-1000



Appendix B



Produkte
Products

CN24DGHY 001

Page 12 of 31

BLE 1M Ant1 2402 1000-26500



BLE 1M Ant1 2440 0~Reference



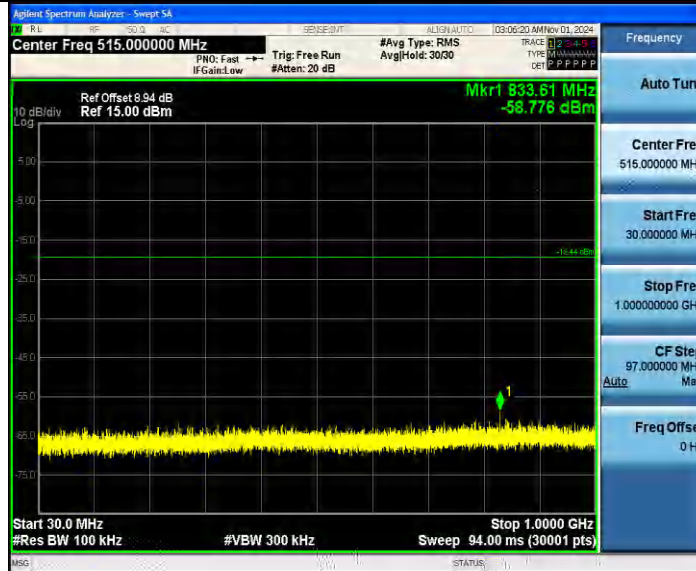
Appendix B

CN24DGHY 001

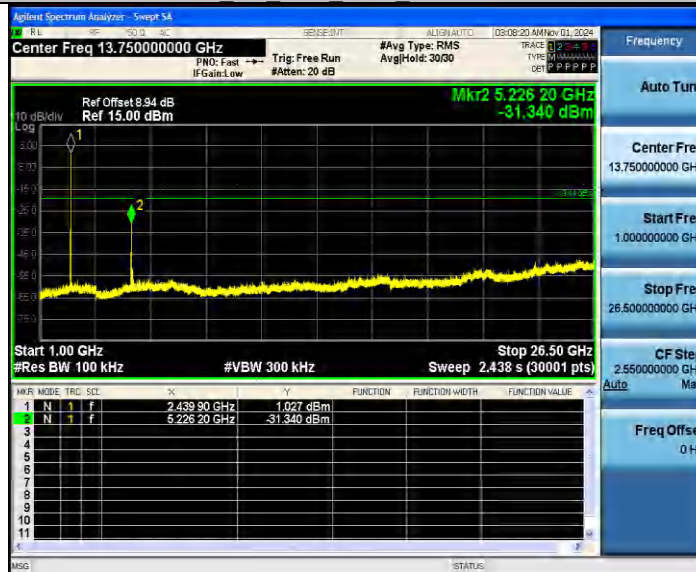
Page 13 of 31

Produkte
Products

BLE 1M Ant1 2440 30~1000



BLE 1M Ant1 2440 1000~26500



BLE 1M Ant1 2480 0~Reference



APPENDIX B.6: 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 to 1GHz



Dongguan Lepont Testing Service Co., Ltd.

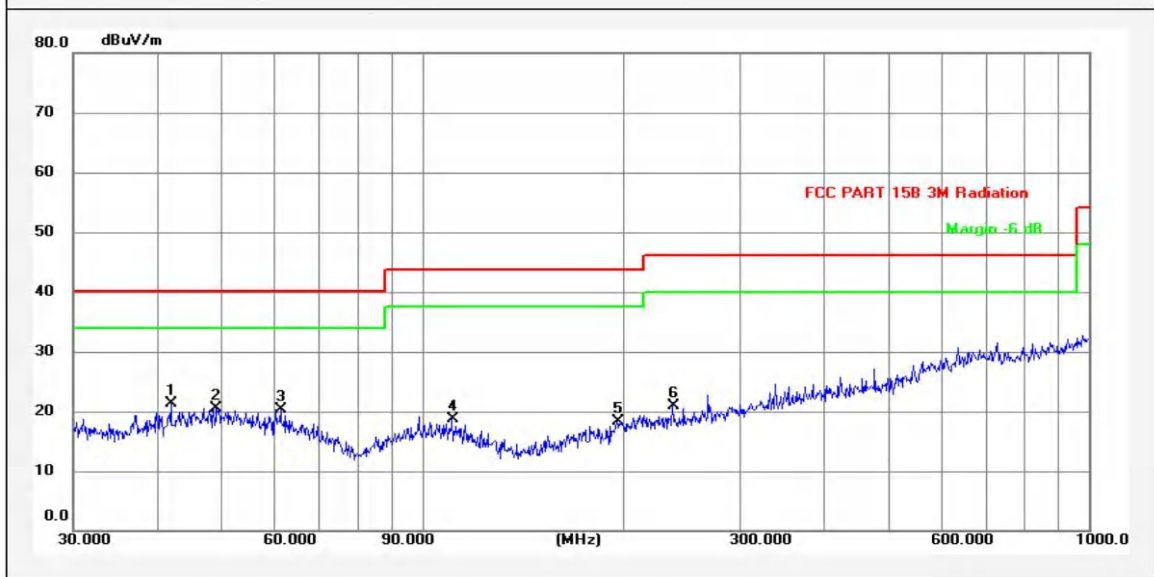
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Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2024/10/26

Job No.:	LP24070228C07-03	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	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	42.0066	11.98	9.30	21.28	40.00	-18.72	QP	*	
2	49.1865	12.47	8.10	20.57	40.00	-19.43	QP		
3	61.3463	11.05	9.25	20.30	40.00	-19.70	QP		
4	110.9571	9.89	8.78	18.67	43.50	-24.83	QP		
5	195.8220	10.13	8.25	18.38	43.50	-25.12	QP		
6	237.4760	11.01	9.86	20.87	46.00	-25.13	QP		

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

File: 30-1G-RSE\Data :#6





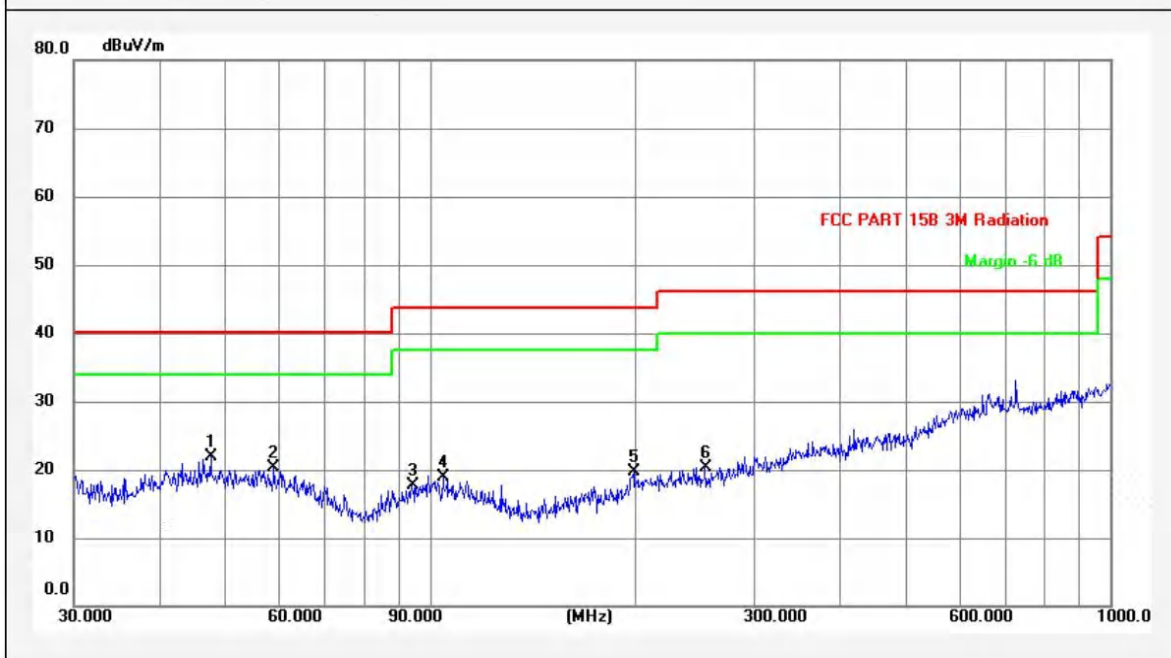
Dongguan Lepont Testing Service Co., Ltd.
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Radiation Emission

Site: 966 Chamber 1

2024/10/26

Job No.:	LP24070228C07-03	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Vertical
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	47.6586	12.58	9.28	21.86	40.00	-18.14	QP	*	
2	59.0251	11.48	8.86	20.34	40.00	-19.66	QP		
3	94.0979	9.49	8.27	17.76	43.50	-25.74	QP		
4	104.5361	10.30	8.67	18.97	43.50	-24.53	QP		
5	199.2855	10.69	8.92	19.61	43.50	-23.89	QP		
6	253.8367	11.31	8.99	20.30	46.00	-25.70	QP		

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

File: 30-1G-RSEIData :#5





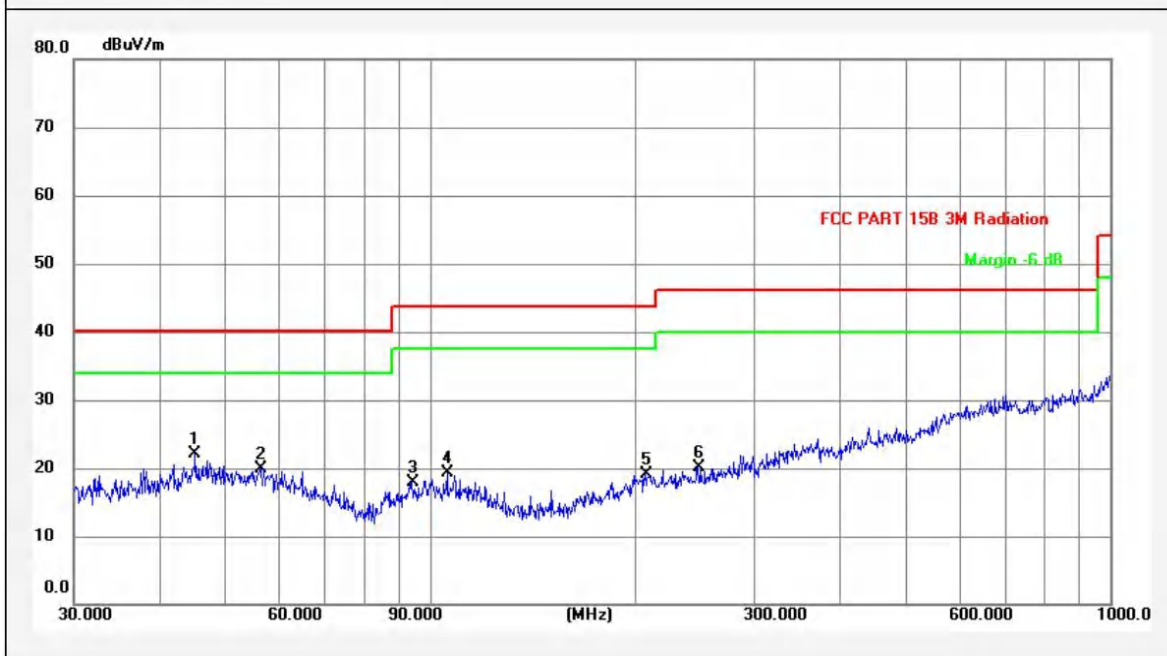
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Radiation Emission

Site: 966 Chamber 1

2024/10/26

Job No.:	LP24070228C07-03	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2440MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	45.2166	12.76	9.44	22.20	40.00	-17.80	QP	*	
2	56.5929	11.72	8.22	19.94	40.00	-20.06	QP		
3	94.0979	9.49	8.33	17.82	43.50	-25.68	QP		
4	106.0126	10.21	9.03	19.24	43.50	-24.26	QP		
5	207.1226	10.86	8.15	19.01	43.50	-24.49	QP		
6	247.6819	11.20	8.97	20.17	46.00	-25.83	QP		

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

File: 30-1G-RSE\Data :#4





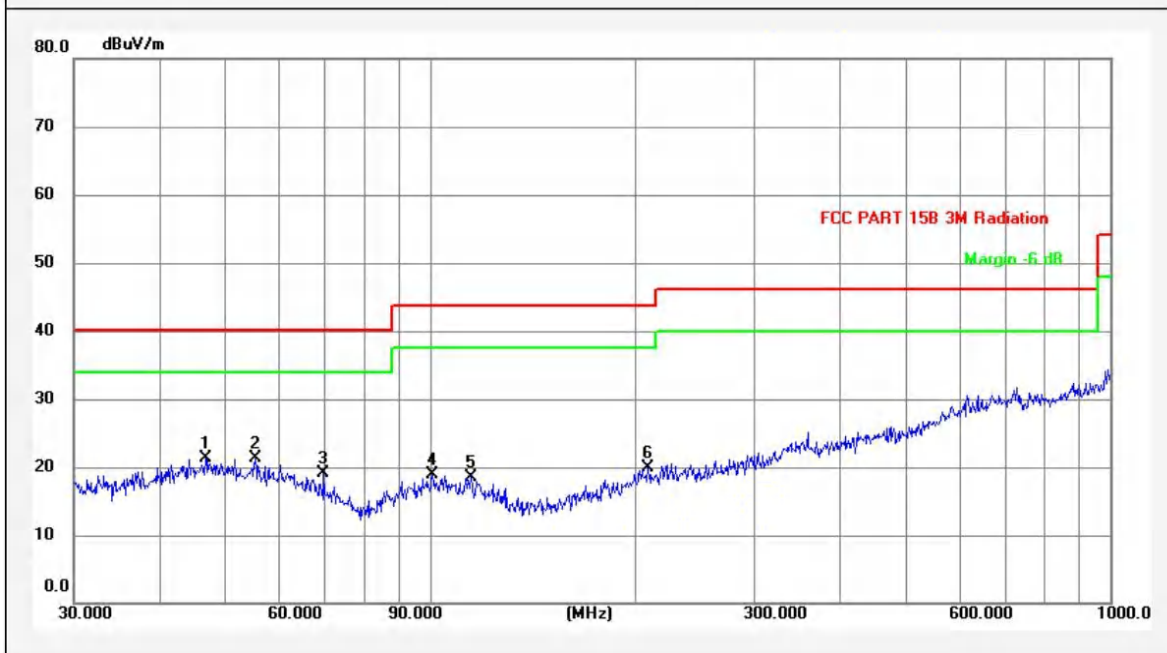
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Radiation Emission

Site: 966 Chamber 1

2024/10/26

Job No.:	LP24070228C07-03	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2440MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	46.8302	12.63	8.62	21.25	40.00	-18.75	QP	*	
2	55.4147	11.84	9.41	21.25	40.00	-18.75	QP		
3	69.8449	9.00	10.07	19.07	40.00	-20.93	QP		
4	100.9339	10.54	8.28	18.82	43.50	-24.68	QP		
5	114.9168	9.63	8.96	18.59	43.50	-24.91	QP		
6	209.3129	10.87	9.11	19.98	43.50	-23.52	QP		

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

File: 30-1G-RSE\Data :#3





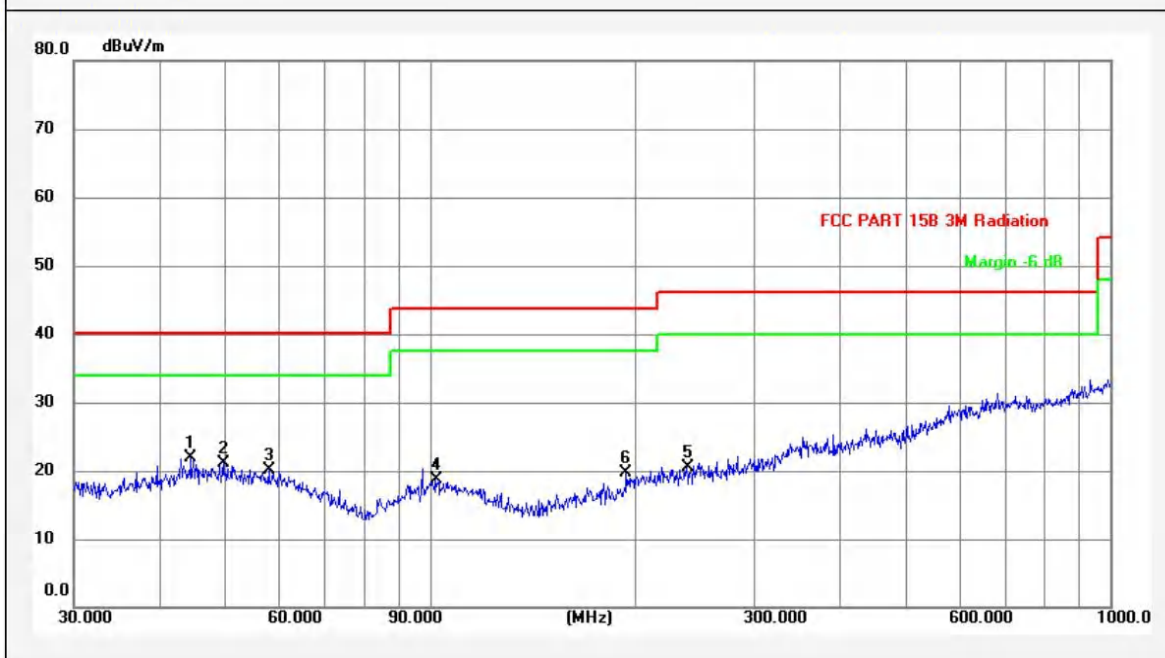
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Radiation Emission

Site: 966 Chamber 1

2024/10/26

Job No.:	LP24070228C07-03	Temp:	24.2 (C) / 57 %RH/ 1013
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	44.5868	12.66	9.23	21.89	40.00	-18.11	QP	*	
2	49.7068	12.42	8.68	21.10	40.00	-18.90	QP		
3	57.9993	11.58	8.57	20.15	40.00	-19.85	QP		
4	102.0014	10.47	8.24	18.71	43.50	-24.79	QP		
5	238.3102	11.01	9.56	20.57	46.00	-25.43	QP		
6	194.4534	9.91	9.75	19.66	43.50	-23.84	QP		

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

File: 30-1G-RSE1Data :#2





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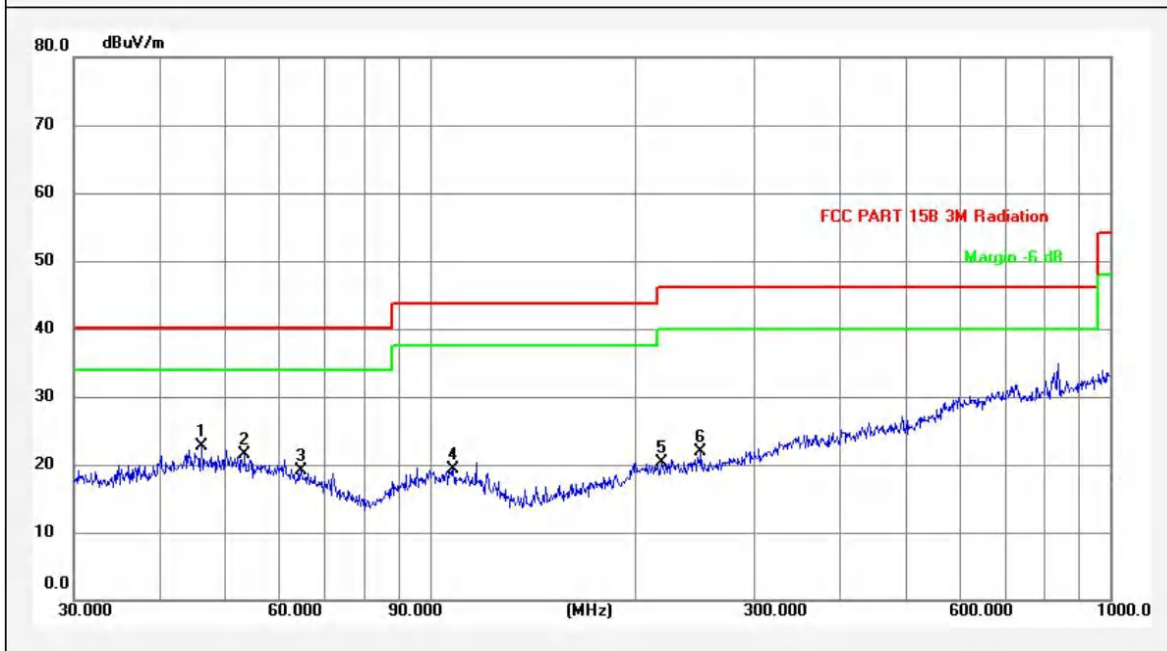
Radiation Emission

Site: 966 Chamber 1

2024/10/26

Job No.: LP24070228C07-03
Test Standard: FCC PART 15B 3M Radiation
EUT: Incase Bluetooth Mouse
Model No.: OB1929
Test Mode: TX
Remark 1: 2402MHz

Temp: 24.2 (C) / 57 %RH/ 1013
Test Engineer: Lucas
Power Rating: DC 1.5V
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	12.69	9.96	22.65	40.00	-17.35	QP	*	
2	53.5052	12.04	9.38	21.42	40.00	-18.58	QP		
3	64.6594	10.26	8.88	19.14	40.00	-20.86	QP		
4	108.2664	10.06	9.31	19.37	43.50	-24.13	QP		
5	219.0751	10.96	9.36	20.32	46.00	-25.68	QP		
6	250.3009	11.23	10.71	21.94	46.00	-24.06	QP		

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

File: 30-1G-RSEIData :#1



Produkte
Products

1GHz-18GHz

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



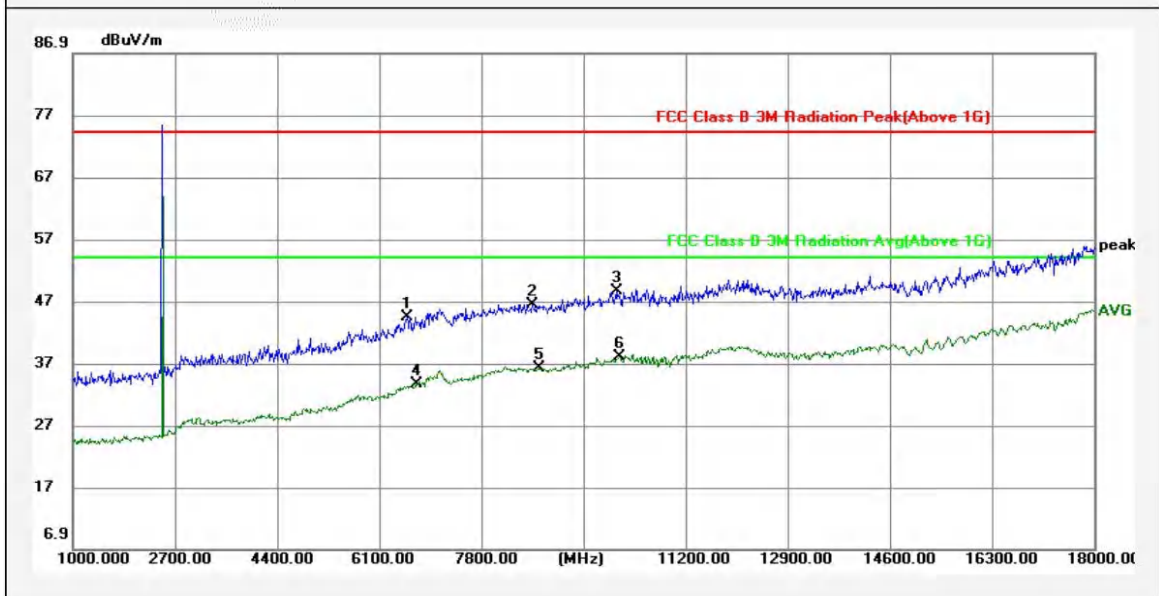
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Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	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	6559.000	4.43	40.05	44.48	74.00	-29.52	peak		
2	8650.000	6.52	39.97	46.49	74.00	-27.51	peak		
3	10061.000	7.92	40.67	48.59	74.00	-25.41	peak		
4	6712.000	4.89	28.70	33.59	54.00	-20.41	AVG		
5	8769.000	6.76	29.40	36.16	54.00	-17.84	AVG		
6	10095.000	7.98	29.93	37.91	54.00	-16.09	AVG	*	

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

File: RSEData_#6





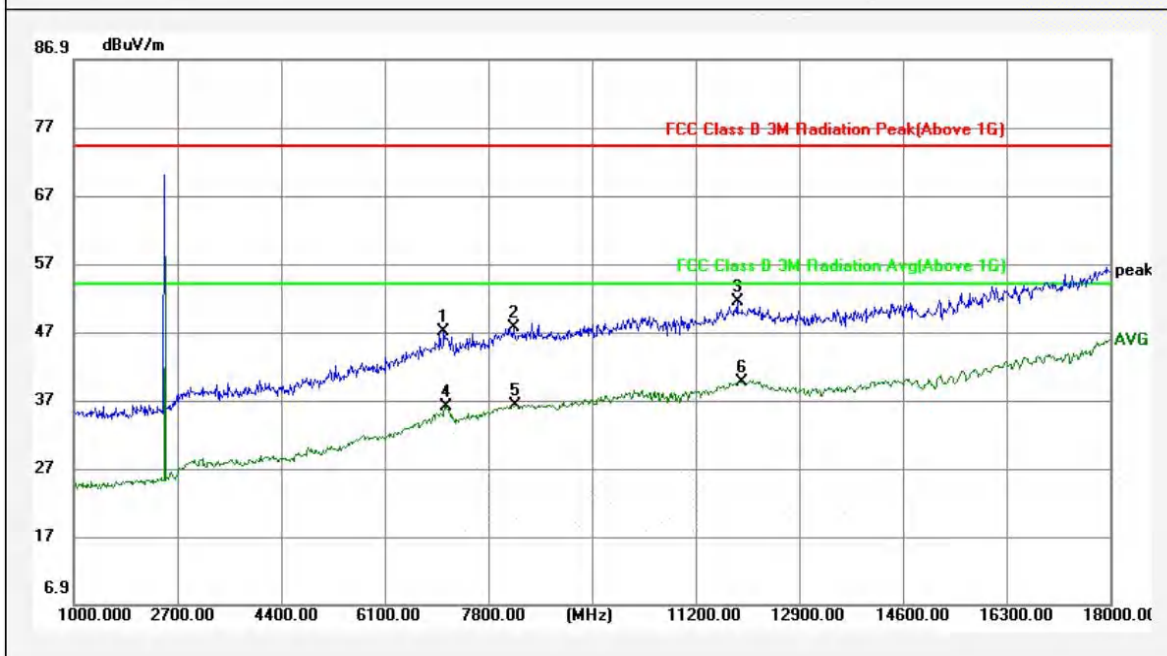
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Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Vertical
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	7069.000	5.74	41.20	46.94	74.00	-27.06	peak		
2	8208.000	5.56	42.01	47.57	74.00	-26.43	peak		
3	11880.000	11.19	40.25	51.44	74.00	-22.56	peak		
4	7103.000	5.72	30.33	36.05	54.00	-17.95	AVG		
5	8242.000	5.63	30.52	36.15	54.00	-17.85	AVG		
6	11965.000	11.34	28.34	39.68	54.00	-14.32	AVG	*	

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

File: RSE\Data :#5





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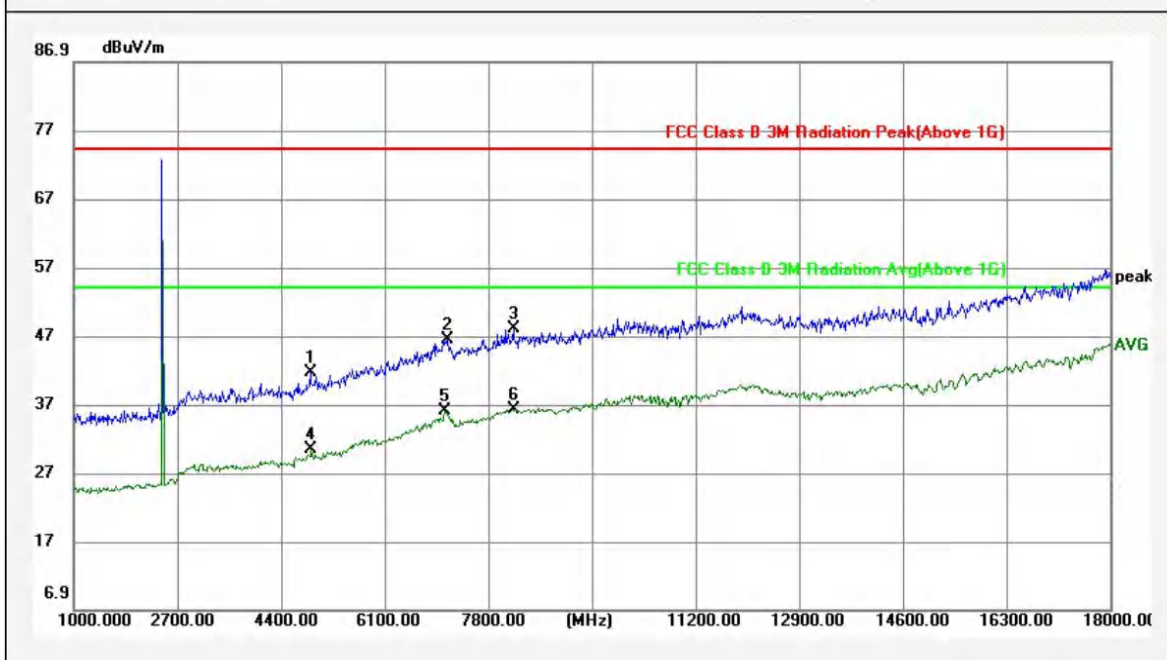
Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.: LP24070228C07-03
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Incase Bluetooth Mouse
Model No.: OB1929
Test Mode: TX
Remark 1: 2440MHz

Temp: 23.7 (C) / 57 %RH/ 983 hpa
Test Engineer: Lucas
Power Rating: DC 1.5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4876.000	-1.01	42.67	41.66	74.00	-32.34	peak		
2	7137.000	5.71	40.67	46.38	74.00	-27.62	peak		
3	8208.000	5.56	42.45	48.01	74.00	-25.99	peak		
4	4893.000	-1.00	31.33	30.33	54.00	-23.67	AVG		
5	7086.000	5.73	30.18	35.91	54.00	-18.09	AVG		
6	8208.000	5.56	30.65	36.21	54.00	-17.79	AVG	*	

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

File: RSE\Data :#4





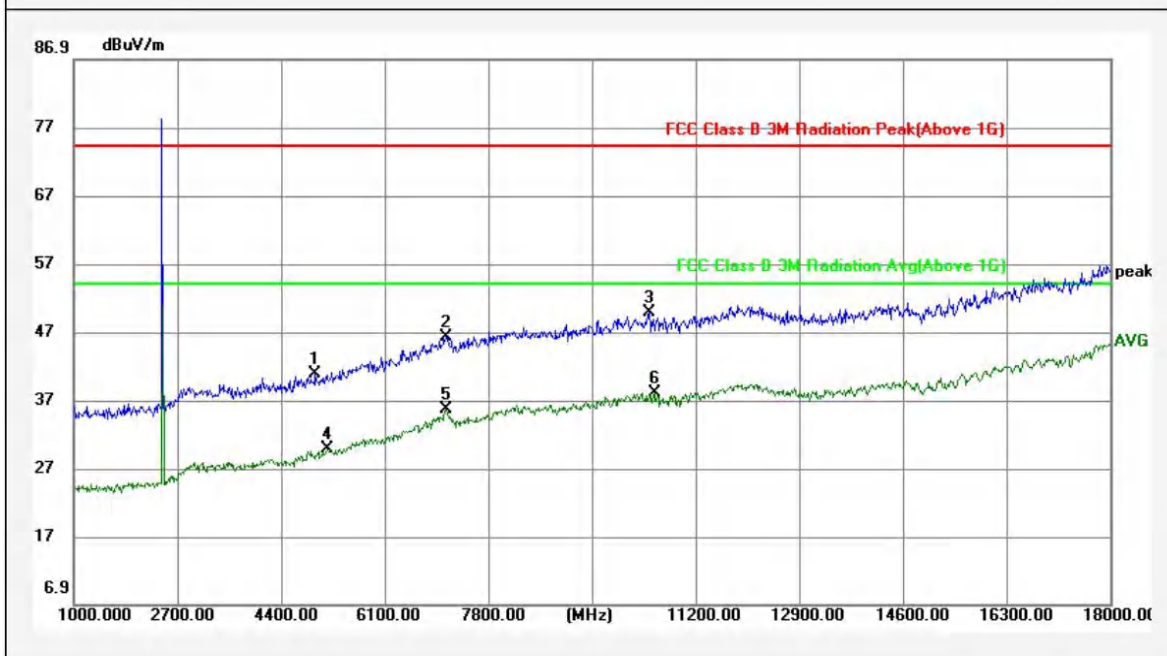
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Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2440MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4961.000	-1.00	41.89	40.89	74.00	-33.11	peak		
2	7103.000	5.72	40.49	46.21	74.00	-27.79	peak		
3	10435.000	8.59	41.29	49.88	74.00	-24.12	peak		
4	5148.000	-0.43	30.15	29.72	54.00	-24.28	AVG		
5	7103.000	5.72	29.96	35.68	54.00	-18.32	AVG		
6	10520.000	8.74	29.29	38.03	54.00	-15.97	AVG	*	

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

File: RSE\Data :#3





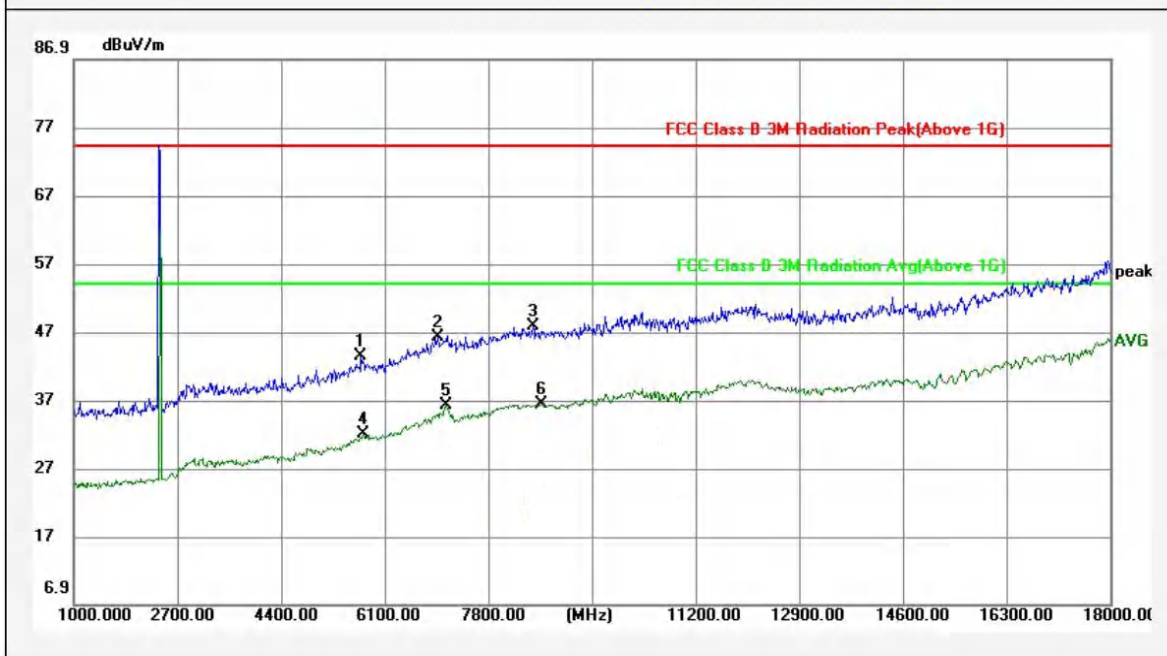
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Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	5709.000	1.64	41.73	43.37	74.00	-30.63	peak		
2	6967.000	5.67	40.59	46.26	74.00	-27.74	peak		
3	8531.000	6.27	41.60	47.87	74.00	-26.13	peak		
4	5743.000	1.75	30.16	31.91	54.00	-22.09	AVG		
5	7103.000	5.72	30.55	36.27	54.00	-17.73	AVG		
6	8667.000	6.54	29.78	36.32	54.00	-17.68	AVG	*	

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

File: RSE\Data :#2





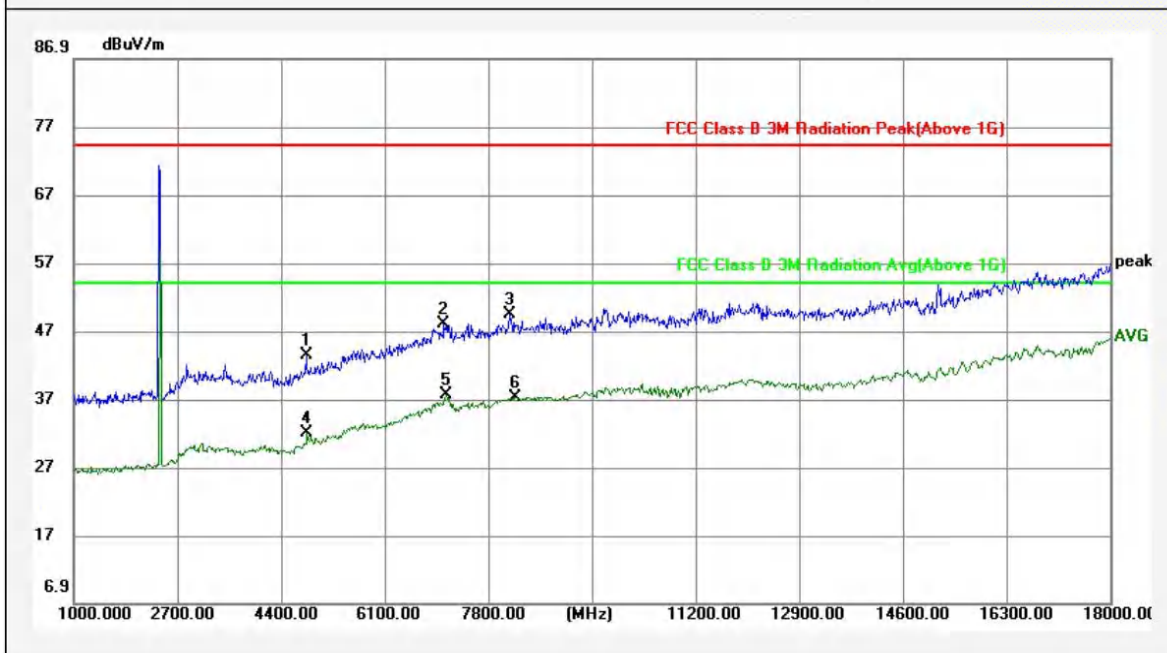
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Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Vertical
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4808.000	0.98	42.46	43.44	74.00	-30.56	peak		
2	7069.000	7.74	40.29	48.03	74.00	-25.97	peak		
3	8140.000	7.40	41.97	49.37	74.00	-24.63	peak		
4	4825.000	0.98	31.04	32.02	54.00	-21.98	AVG		
5	7103.000	7.72	29.87	37.59	54.00	-16.41	AVG	*	
6	8242.000	7.63	29.56	37.19	54.00	-16.81	AVG		

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

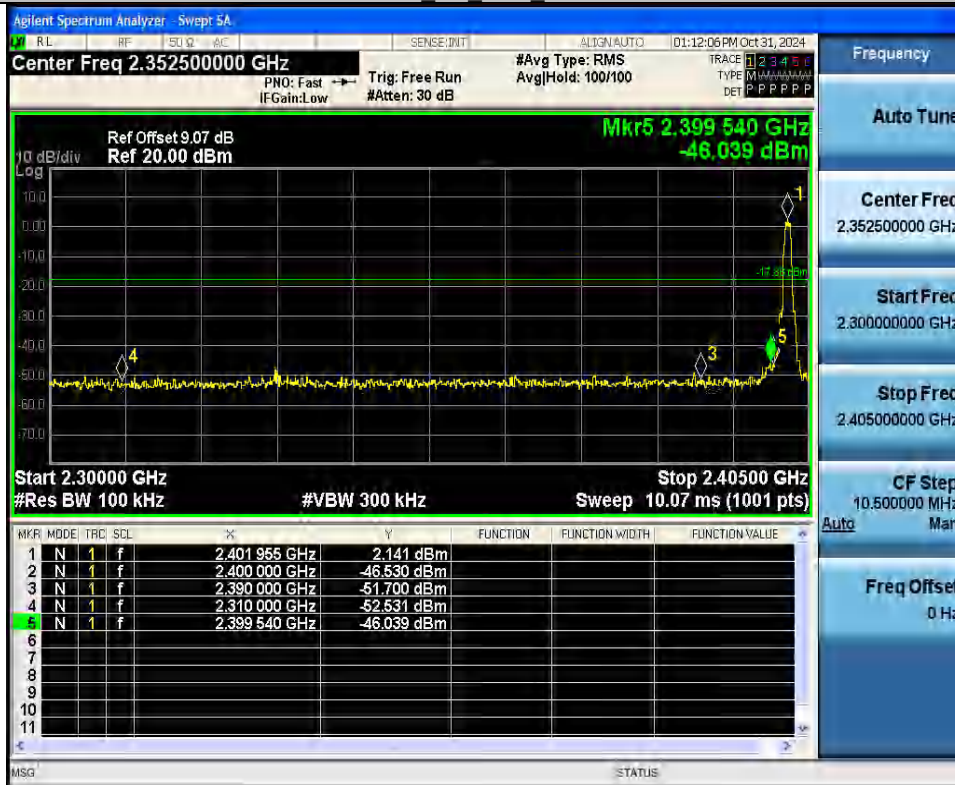
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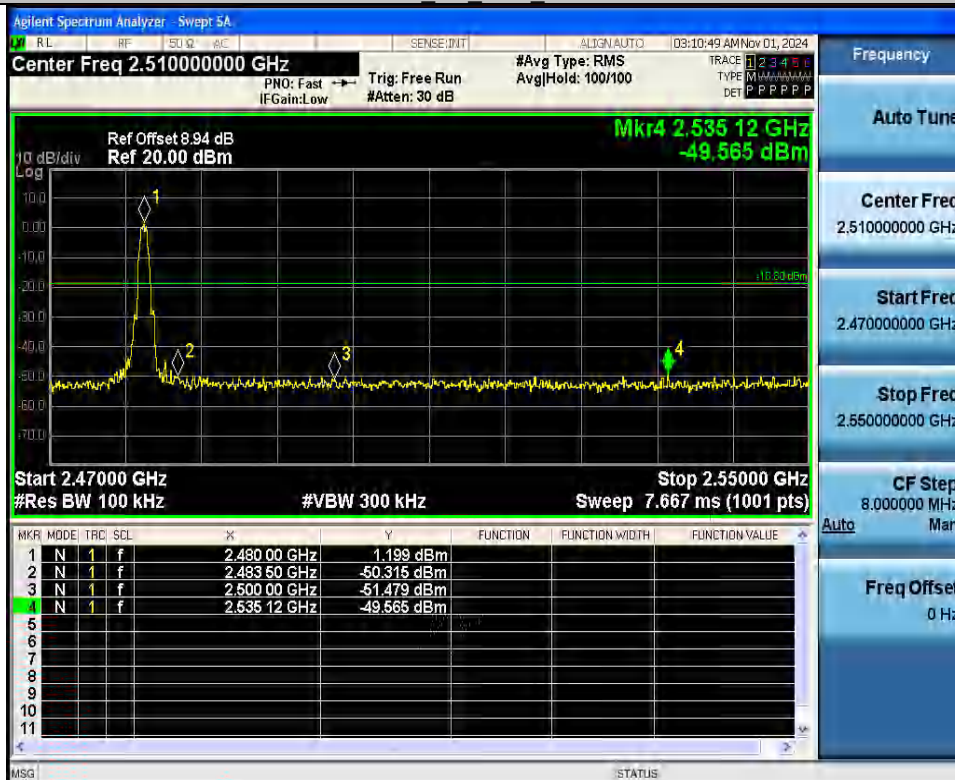
APPENDIX B.7: RADIATED EMISSIONS IN RESTRICTED BANDS

Conduction

BLE 1M Ant1 2402



BLE 1M Ant1 2480



Radiation



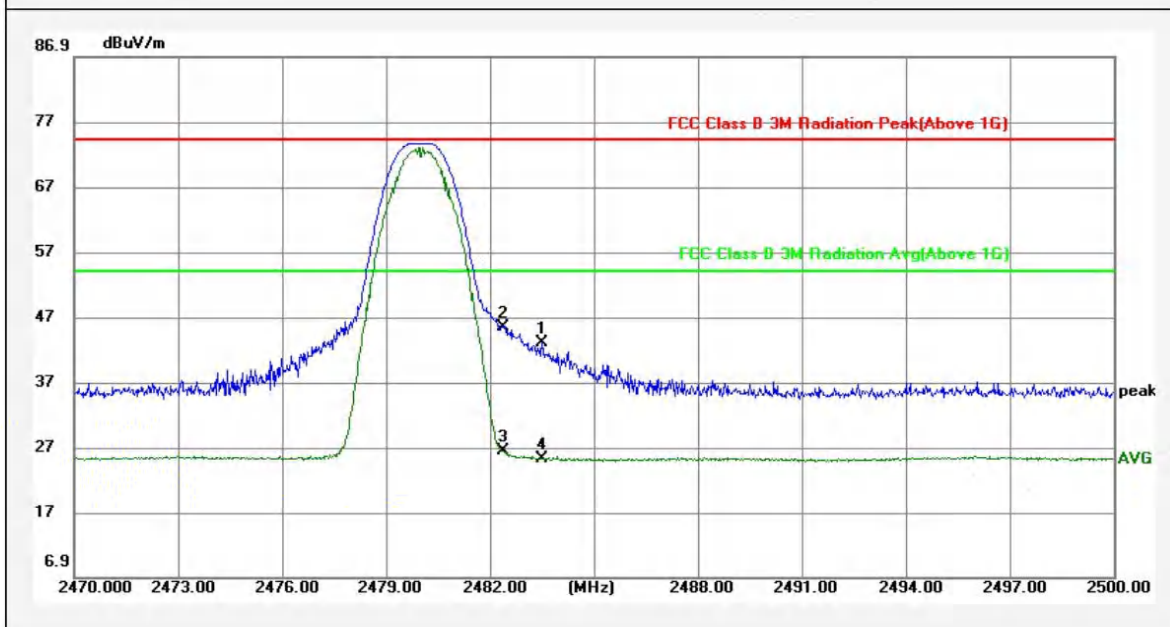
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Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Vertical
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	2483.500	-4.46	47.51	43.05	74.00	-30.95	peak		
2	2482.360	-4.48	49.93	45.45	74.00	-28.55	peak		
3	2482.390	-4.48	30.81	26.33	54.00	-27.67	AVG	*	
4	2483.500	-4.46	29.75	25.29	54.00	-28.71	AVG		

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

File: BANDA\Data :#4





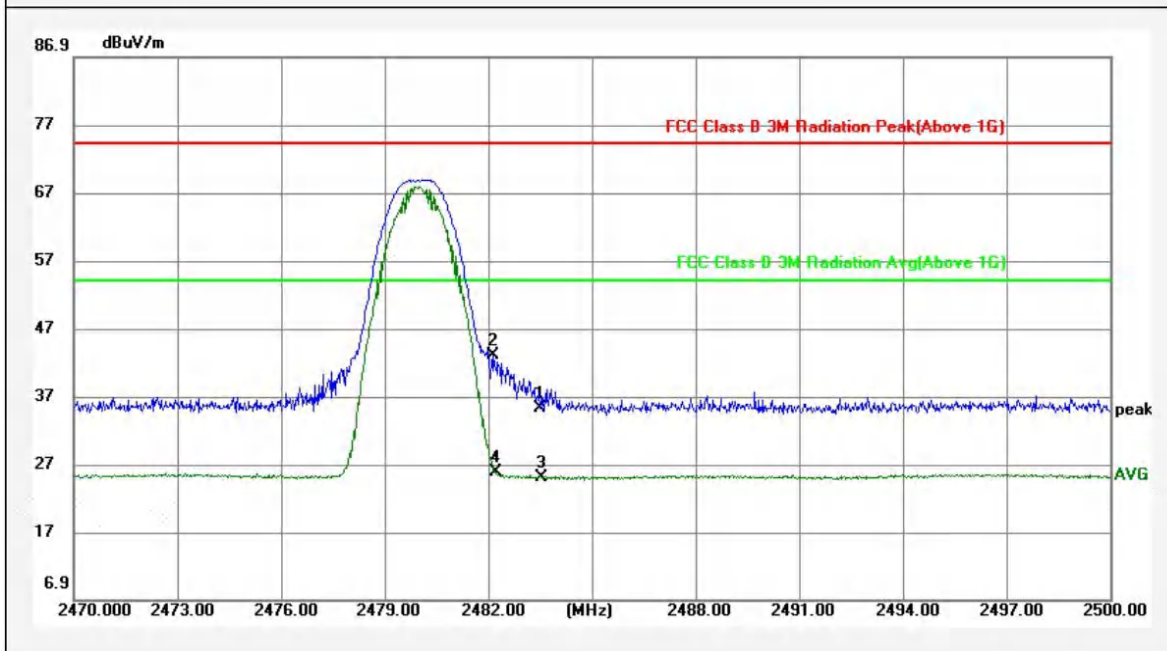
Dongguan Lepont Testing Service Co., Ltd.
Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	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	2483.500	-4.46	39.69	35.23	74.00	-38.77	peak		
2	2482.150	-4.48	47.52	43.04	74.00	-30.96	peak		
3	2483.530	-4.46	29.49	25.03	54.00	-28.97	AVG		
4	2482.210	-4.48	30.36	25.88	54.00	-28.12	AVG	*	

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

File: BANDA\Data :#3





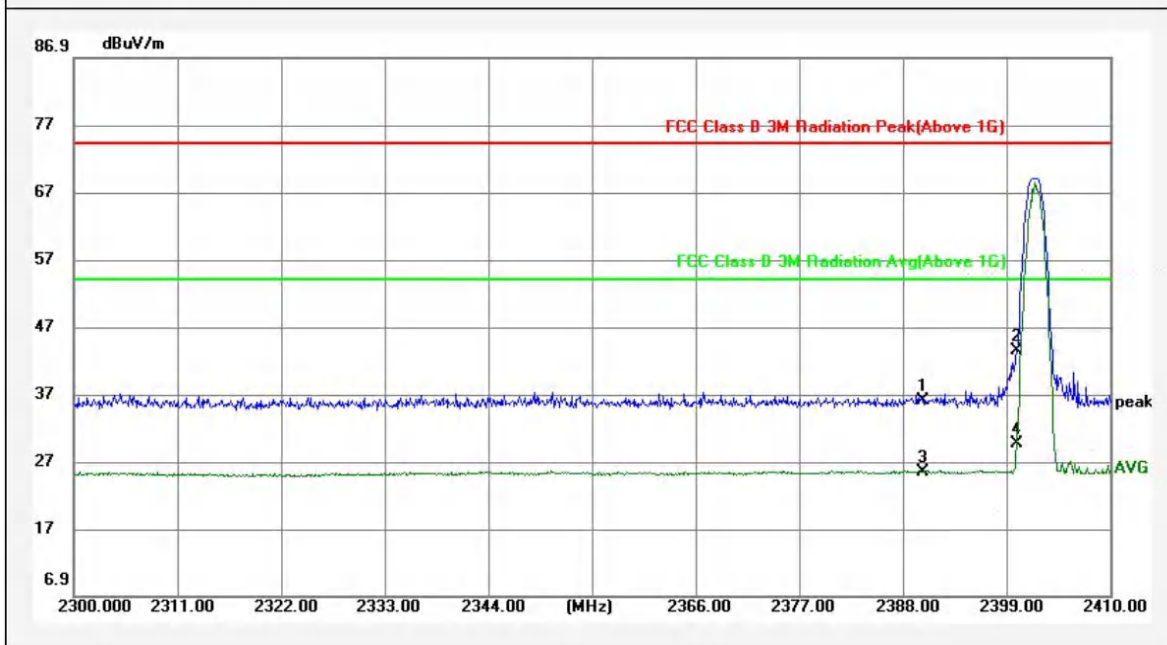
Dongguan Lepont Testing Service Co., Ltd.
Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.:	LP24070228C07-03	Temp:	23.7 (C) / 57 %RH/ 983 hpa
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Bluetooth Mouse	Power Rating:	DC 1.5V
Model No.:	OB1929	Ant. Polarization:	Horizontal
Test Mode:	TX		
Remark 1:	2402MHz		



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-4.83	40.84	36.01	74.00	-37.99	peak		
2	2400.000	-4.79	48.10	43.31	74.00	-30.69	peak		
3	2390.090	-4.83	30.31	25.48	54.00	-28.52	AVG		
4	2400.100	-4.79	34.39	29.60	54.00	-24.40	AVG	*	

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

File: BANDA\Data :#2





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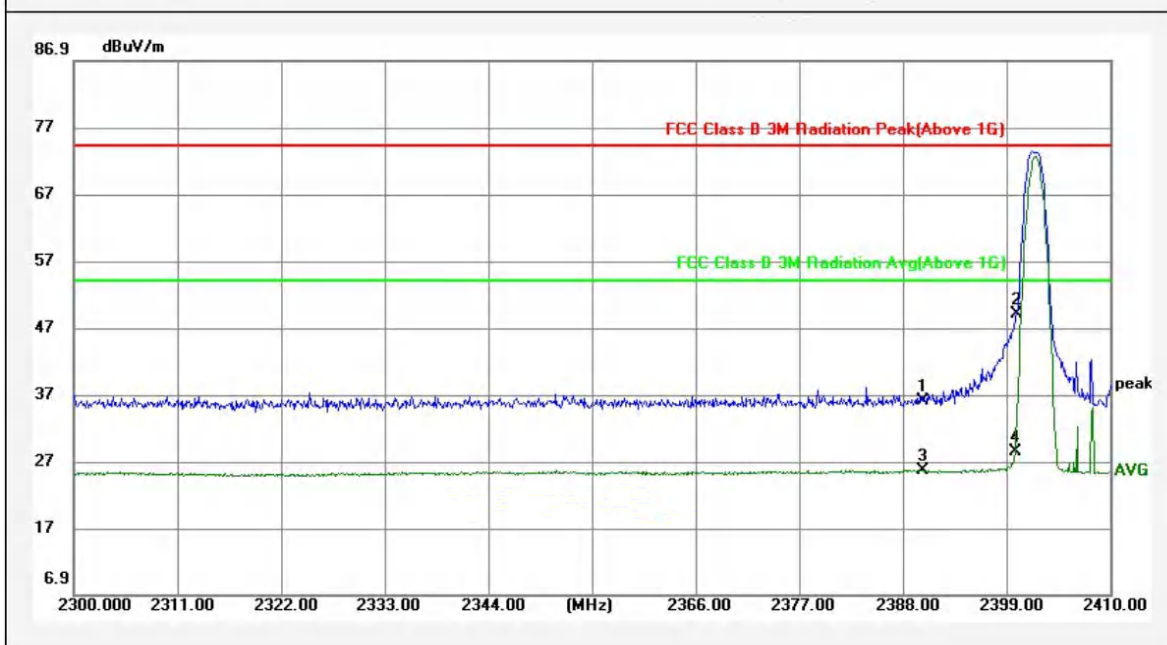
Radiation Emission

Site: 966 Chamber 1

2024/10/24

Job No.: LP24070228C07-03
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Incase Bluetooth Mouse
Model No.: OB1929
Test Mode: TX
Remark 1: 2402MHz

Temp: 23.7 (C) / 57 %RH/ 983 hpa
Test Engineer: Lucas
Power Rating: DC 1.5V
Ant. Polarization: **Vertical**



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	2390.000	-4.83	40.76	35.93	74.00	-38.07	peak		
2	2400.000	-4.79	53.77	48.98	74.00	-25.02	peak	*	
3	2390.090	-4.83	30.44	25.61	54.00	-28.39	AVG		
4	2399.880	-4.79	33.19	28.40	54.00	-25.60	AVG		

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

File: BANDA\Data :#1

