

Prüfbericht-Nr.: Test report no.:	CN24EY0Q 001	Auftrags-Nr.: Order no.:	170389116	Seite 1 von 20 Page 1 of 20
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-09-20	
Auftraggeber: Client:	ONWARD BRANDS LLC 767 5TH AVE FL 37TH NEW YORK, NY 10153 USA			
Prüfgegenstand: Test item:	Incase Ergonomic Mouse			
Bezeichnung / Typ-Nr.: Identification / Type no.:	OB1955			
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:	2024-09-20	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no:	LP24070228C01-S004			
Prüfzeitraum: Testing period:	2024-09-20 - 2024-09-30			
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:	2024-11-26	<i>Signed by: Amy Wang</i>	Ausstellungsdatum: Issue date:	2024-11-26 <i>Signed by: Storm Shu</i>
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: 2BCOY-OB1955 IC: 32736-OB1955 HVIN: OB1955			
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 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>

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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

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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 Ergonomic Mouse
Type Designation:	OB1955
FCC ID:	2BCOY-OB1955
IC:	32736-OB1955
HVIN:	OB1955
Rated Input	DC 3.0V, 50mA
Operating Voltage:	DC 3.0V (supplied by "AAA" battery x 2)
Testing Voltage:	DC 3.0V
Technical Specification of Bluetooth (Low Energy)	
Frequency Range:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1Mbps, 2Mbps
Channel Separation:	2 MHz
Antenna Type:	PCB Layout antenna
Antenna Gain:	2.71 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)

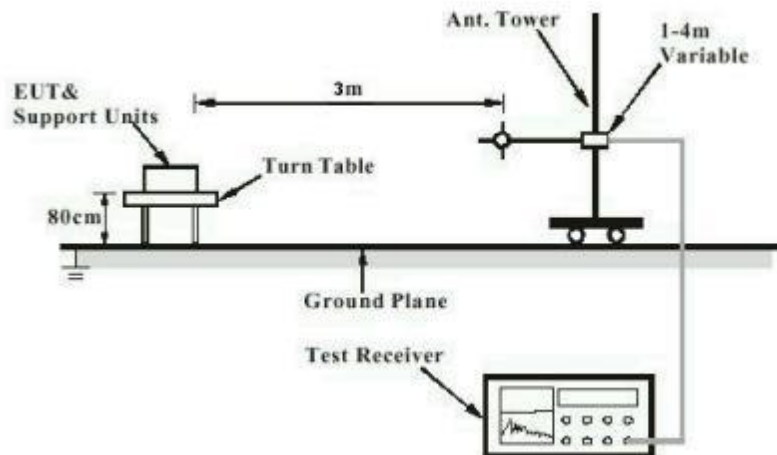
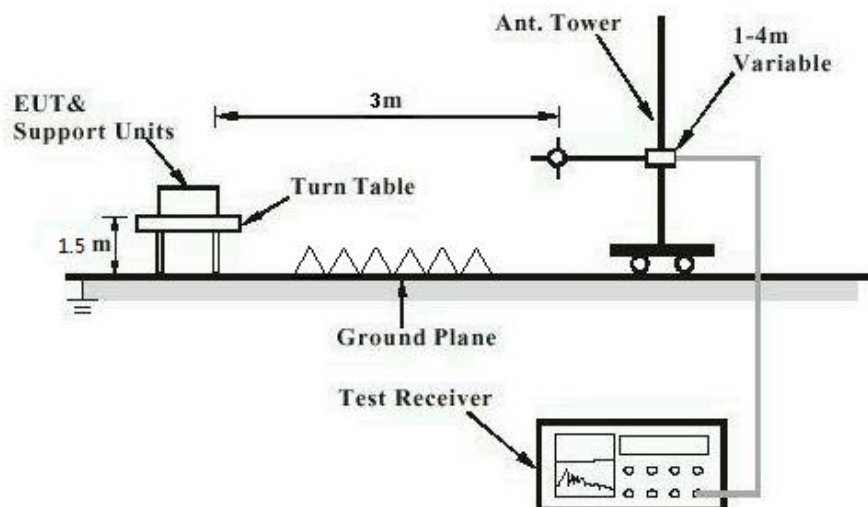


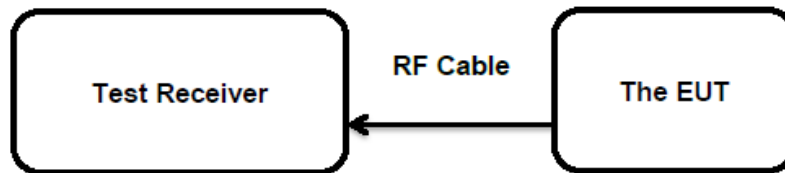
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



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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 2.71 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.

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5.1.2 Maximum Peak Conducted Output Power

RESULT:

Pass

Test Specification

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

Test Setup

Date of testing : 2024-09-22
Input voltage : DC 3.0 V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24.3 °C
Relative humidity : 50 %
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	1.018	0.0013	< 1.0
		2440	1.244	0.0013	
		2480	0.842	0.0012	
	2Mbps	2402	1.028	0.0013	
		2440	1.248	0.0013	
		2480	0.850	0.0012	
Maximum Measured Value			1.248	0.0013	

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.71 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	:	2024-09-22
Input voltage	:	DC 3.0 V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.3 °C
Relative humidity	:	50 %
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	:	2024-09-22
Input voltage	:	DC 3.0 V
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	24.3 °C
Relative humidity	:	50 %
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 : 2024-09-22
 Input voltage : DC 3.0 V
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 24.3 °C
 Relative humidity : 50 %
 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	: 2024-09-22
Input voltage	: DC 3.0 V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.3 °C
Relative humidity	: 50 %
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 : 2024-09-26
Input voltage : DC 3.0 V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101 kPa

Remark:

Testing carried out within frequency range 9kHz to the tenth harmonics. And both the IQ5-IO-8DOS-HOA-B and IQ5-IO-8DOS-B considered, only the worst-case spurious emissions configuration of each mode were reported.

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 A.

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APPENDIX B: TEST RESULTS OF BLUETOOTH (LOW ENERGY)

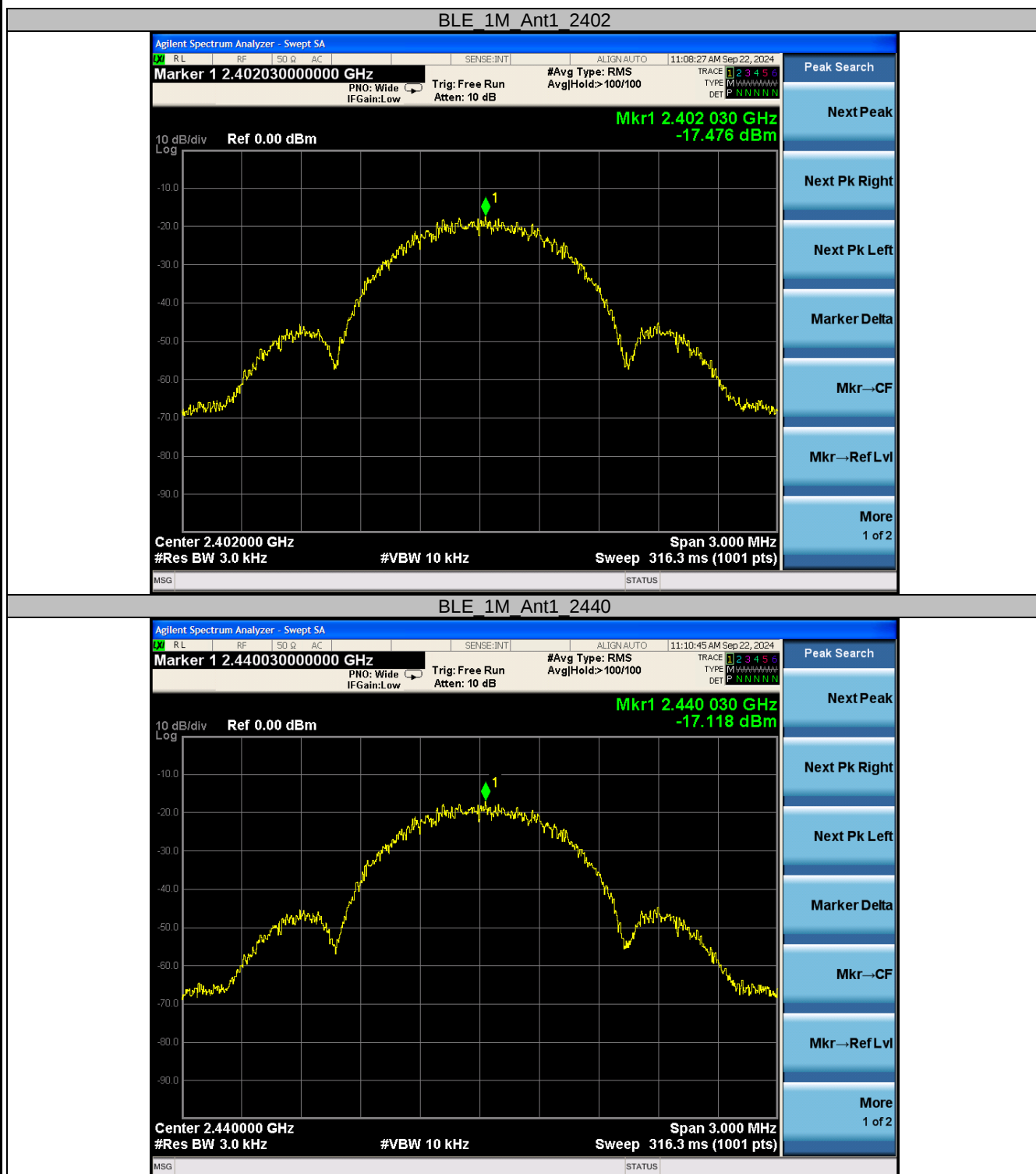
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APPENDIX B.1: CONDUCTED POWER SPECTRAL DENSITY

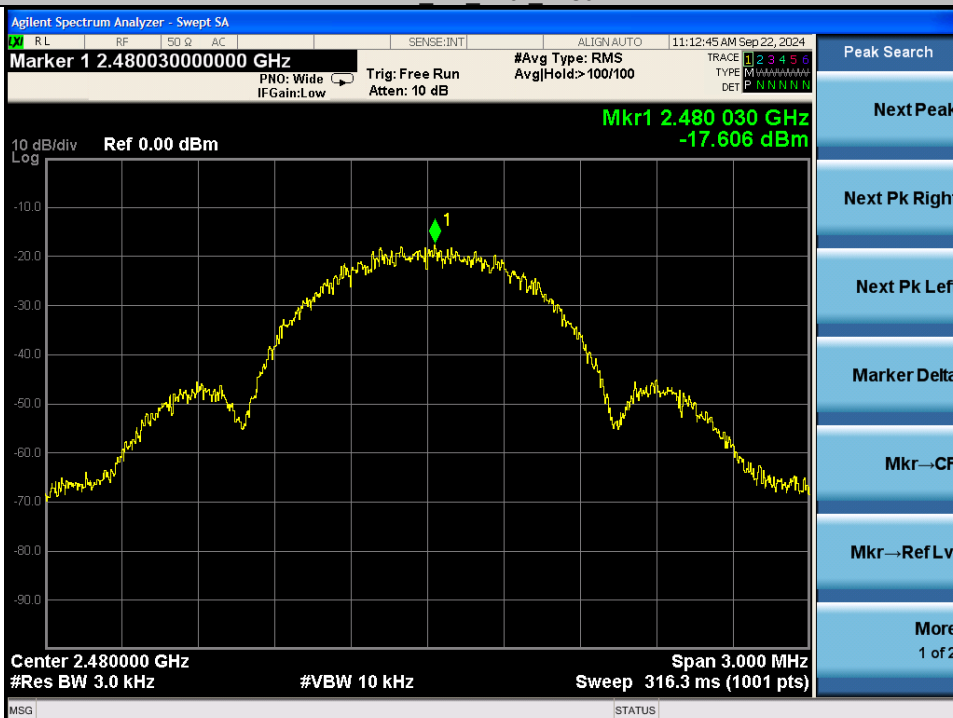
Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-17.476	≤8.00	PASS
		2440	-17.118	≤8.00	PASS
		2480	-17.606	≤8.00	PASS
BLE_2M	Ant1	2402	-19.349	≤8.00	PASS
		2440	-19.262	≤8.00	PASS
		2480	-19.583	≤8.00	PASS

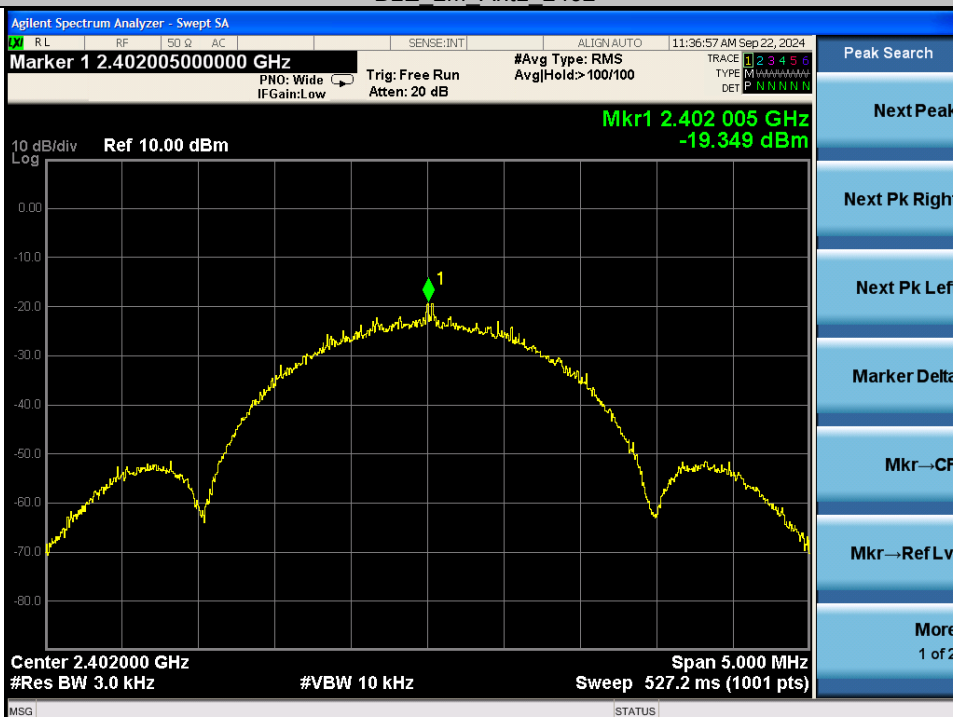
Test Graphs



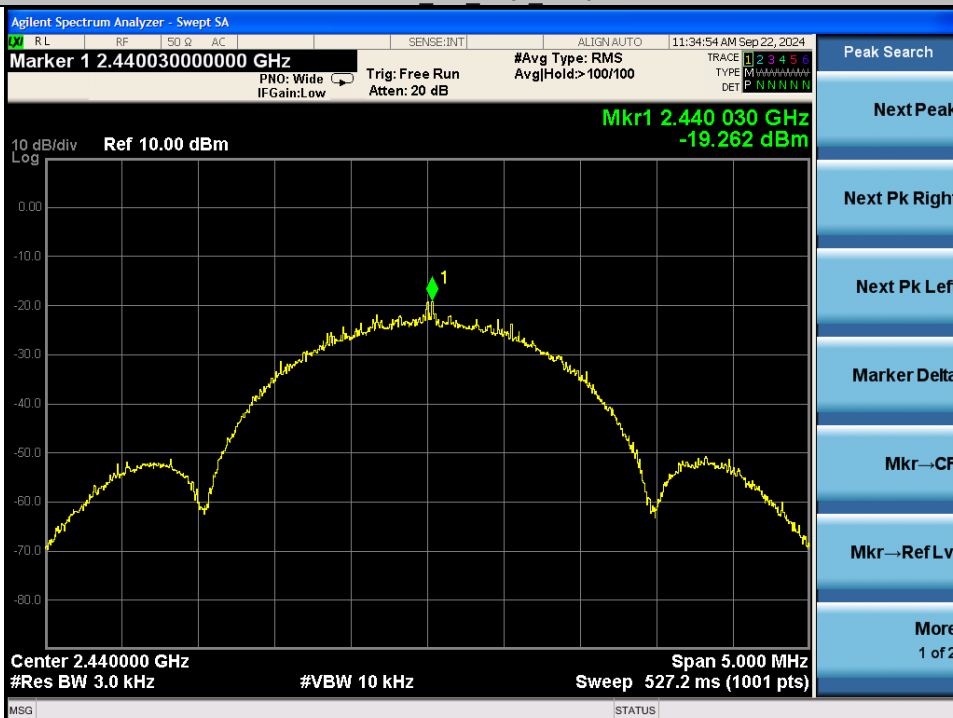
BLE 1M Ant1 2480



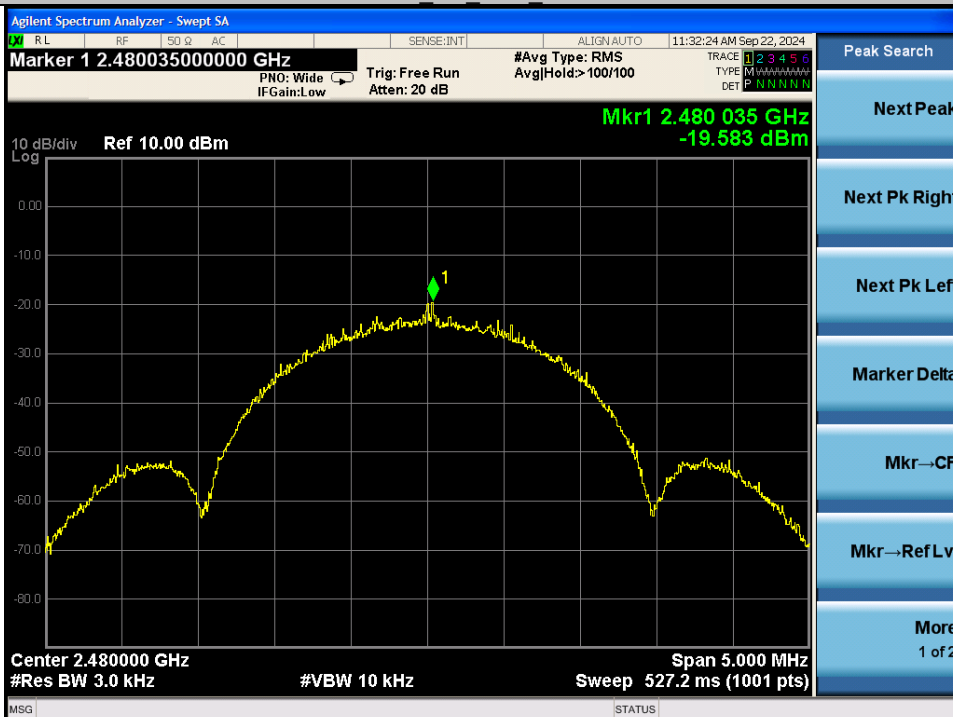
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480

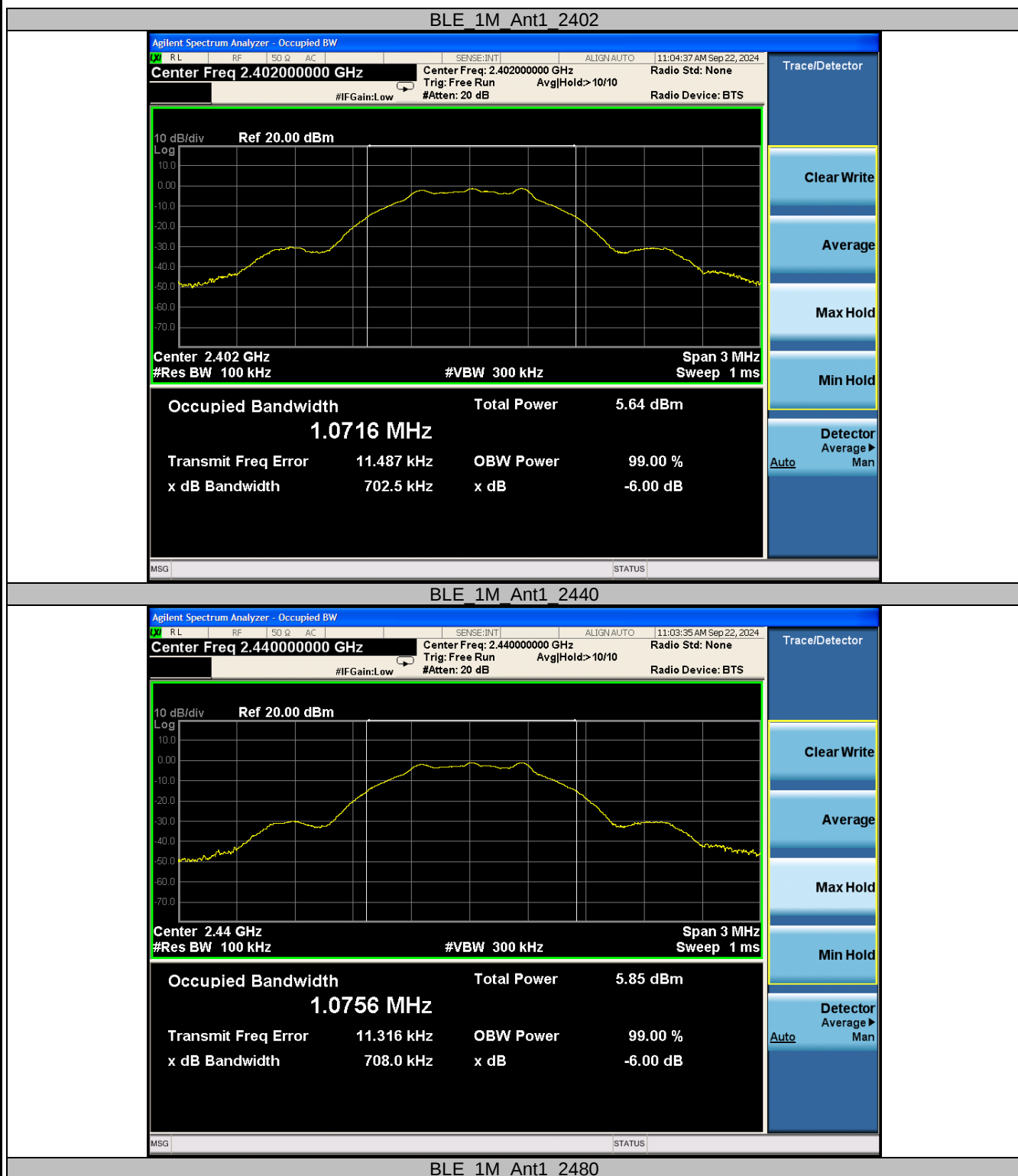


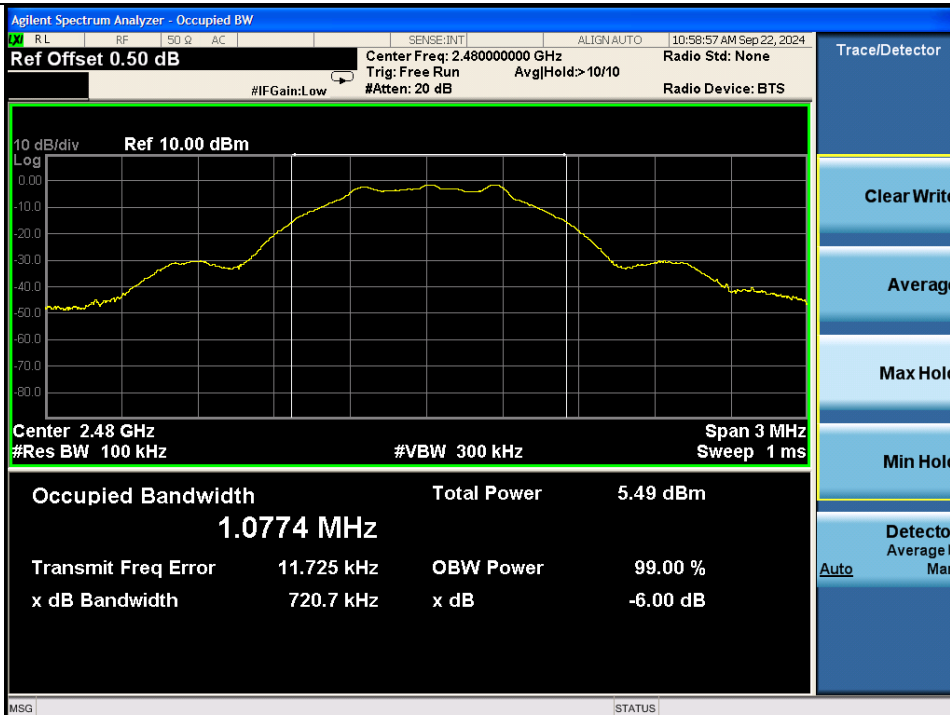
APPENDIX B.2: 6dB BANDWIDTH

Test Result

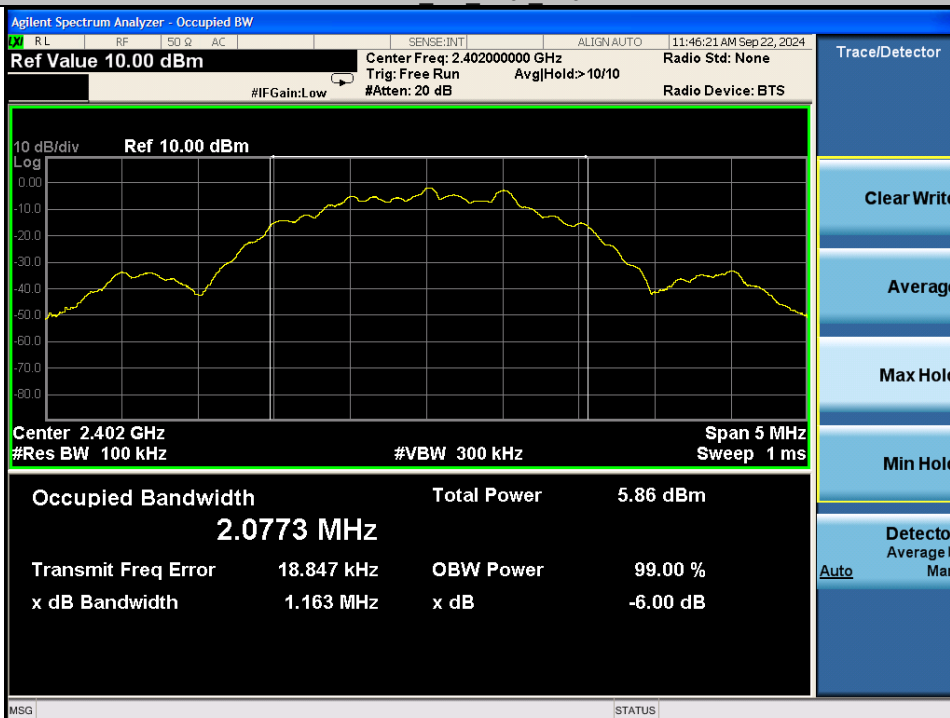
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.702	2401.663	2402.365	0.5	PASS
		2440	0.708	2439.663	2440.371	0.5	PASS
		2480	0.721	2479.644	2480.395	0.5	PASS
BLE_2M	Ant1	2402	1.163	2401.406	2402.569	0.5	PASS
		2440	1.168	2439.406	2440.574	0.5	PASS
		2480	1.170	2479.406	2480.576	0.5	PASS

Test Graphs

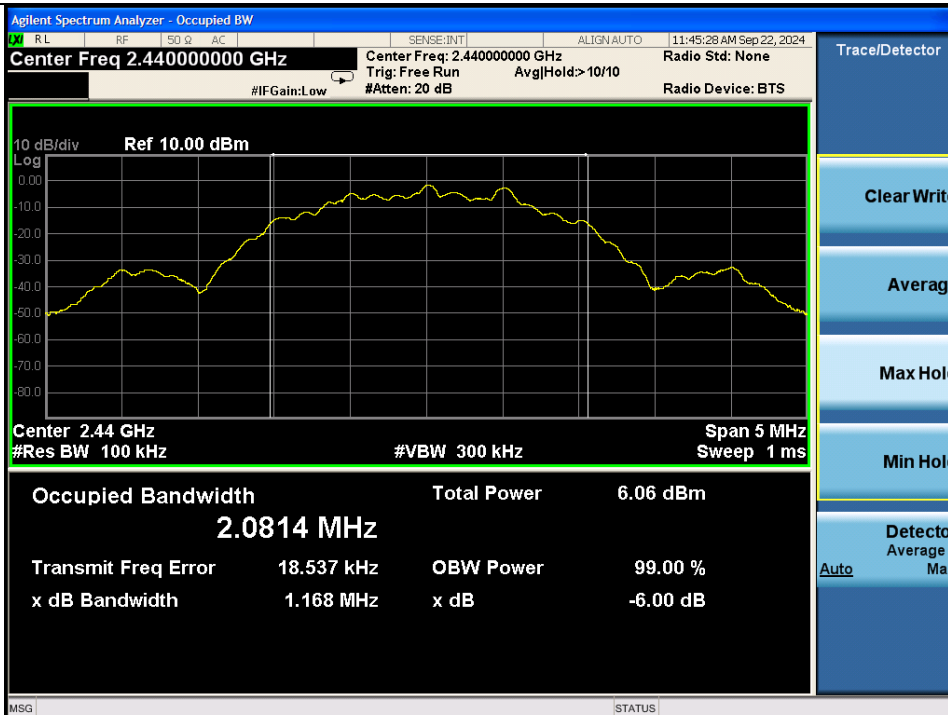




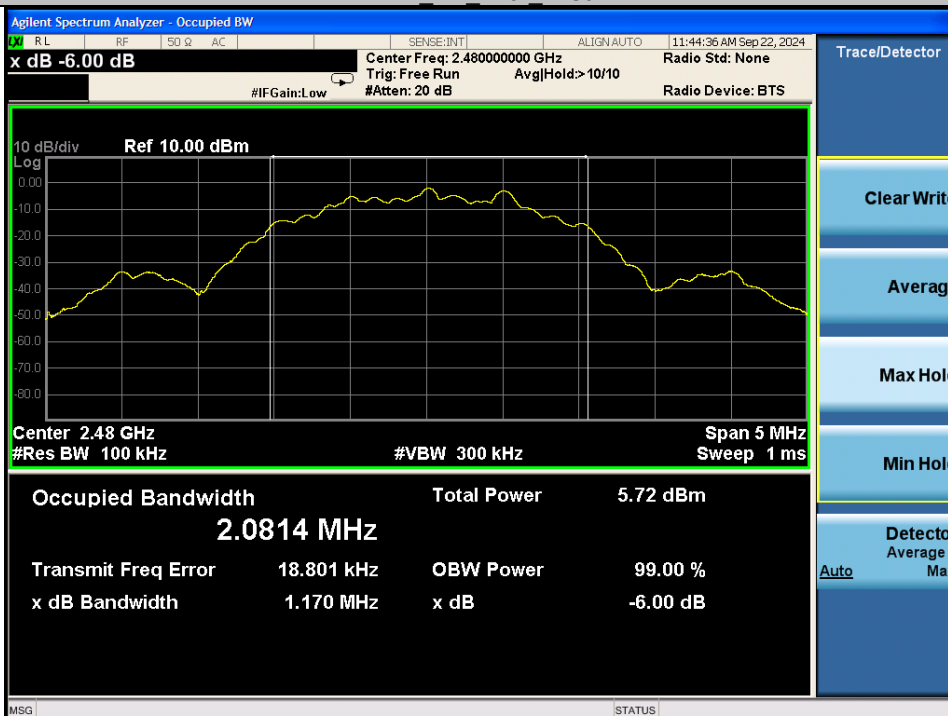
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480

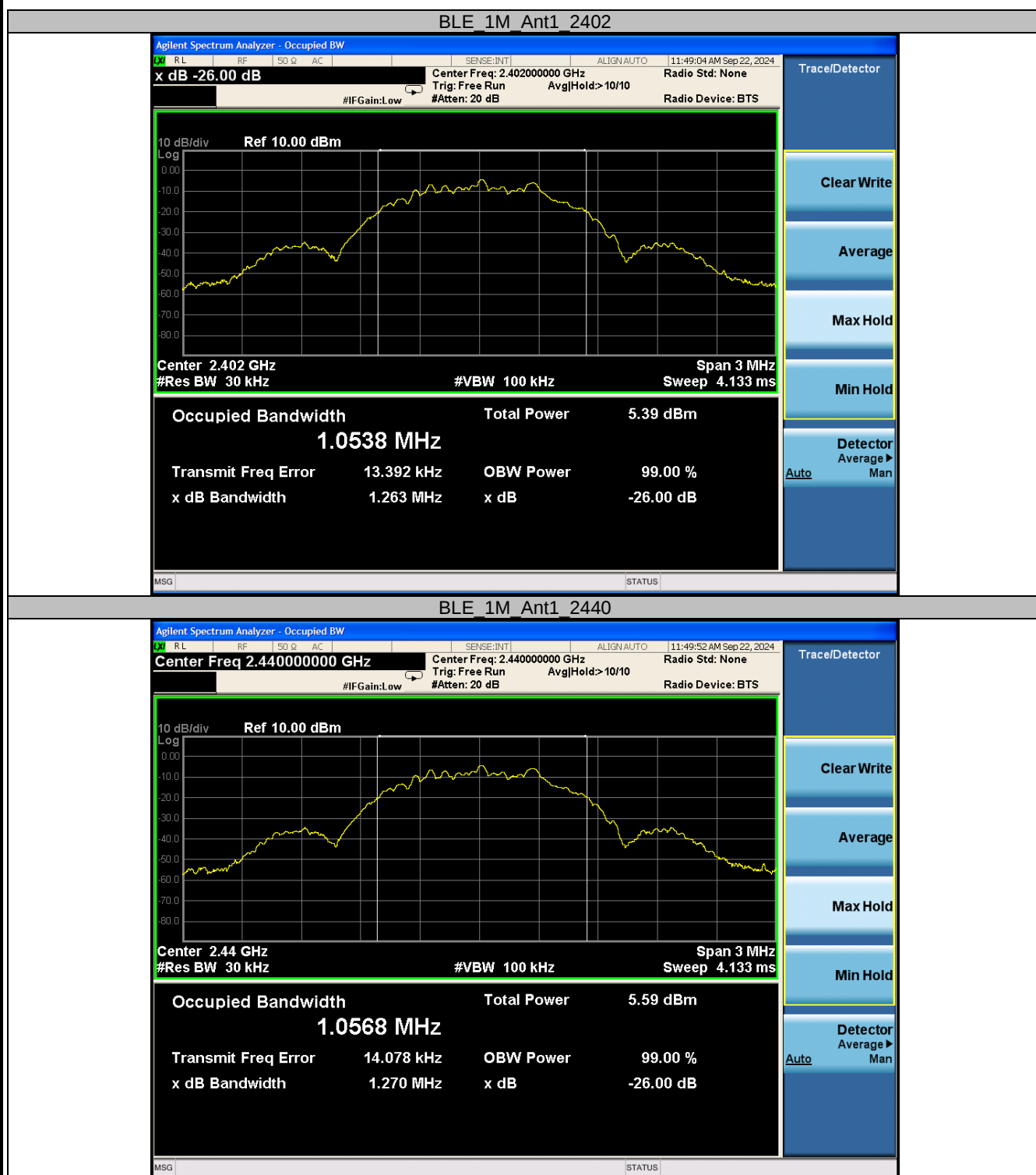


APPENDIX B.3: 99% BANDWIDTH

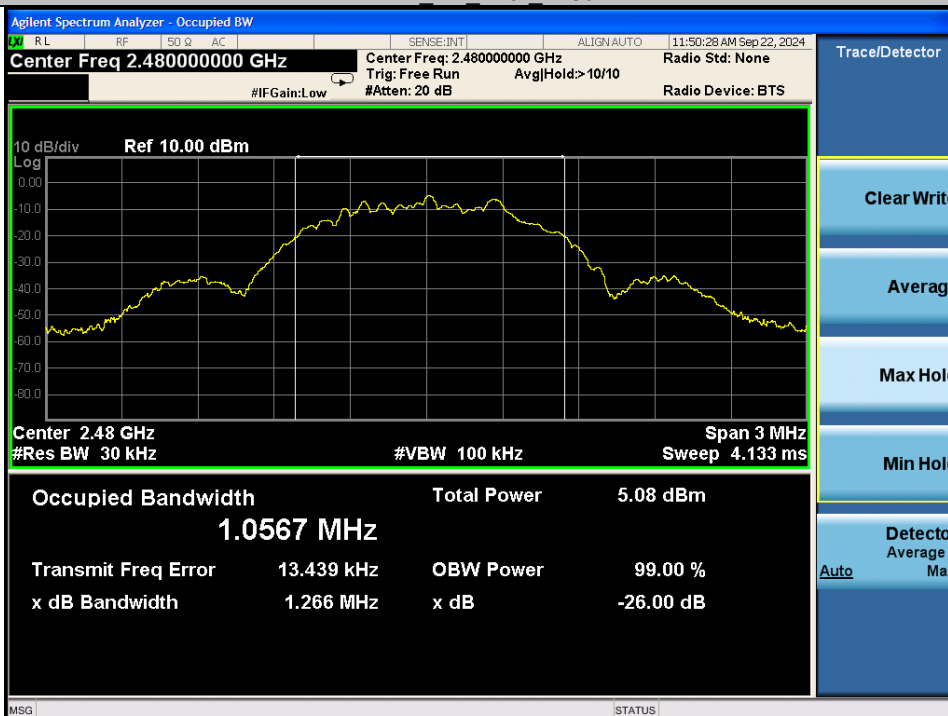
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0400	2401.5125	2402.5525	---	---
		2440	1.0400	2439.5125	2440.5525	---	---
		2480	1.0450	2479.5125	2480.5575	---	---
BLE_2M	Ant1	2402	2.0200	2401.0450	2403.0650	---	---
		2440	2.0300	2439.0350	2441.0650	---	---
		2480	2.0300	2479.0350	2481.0650	---	---

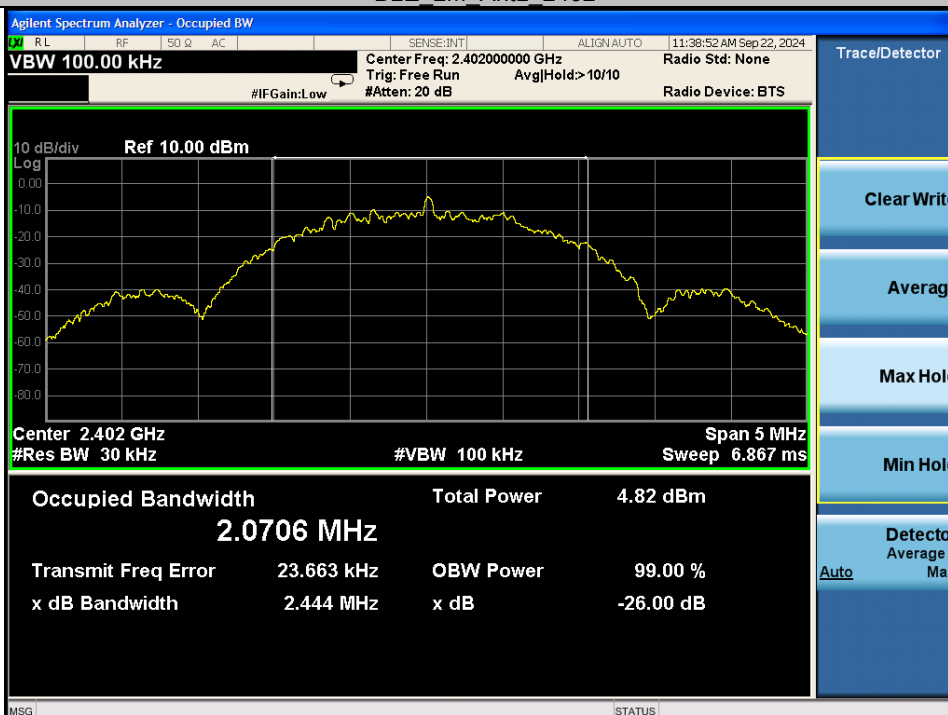
Test Graphs



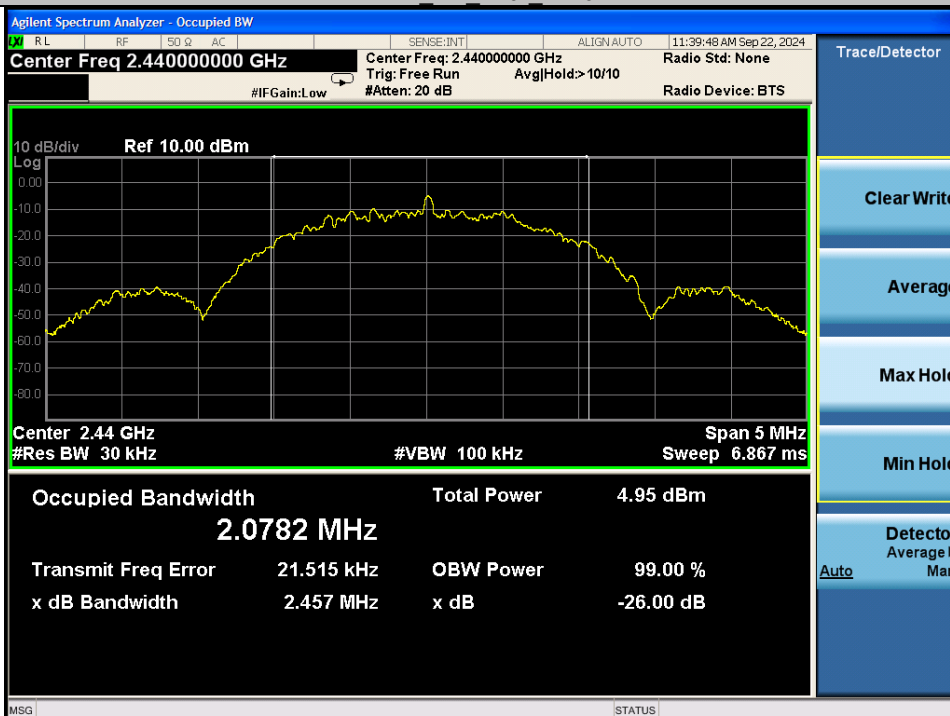
BLE 1M Ant1 2480



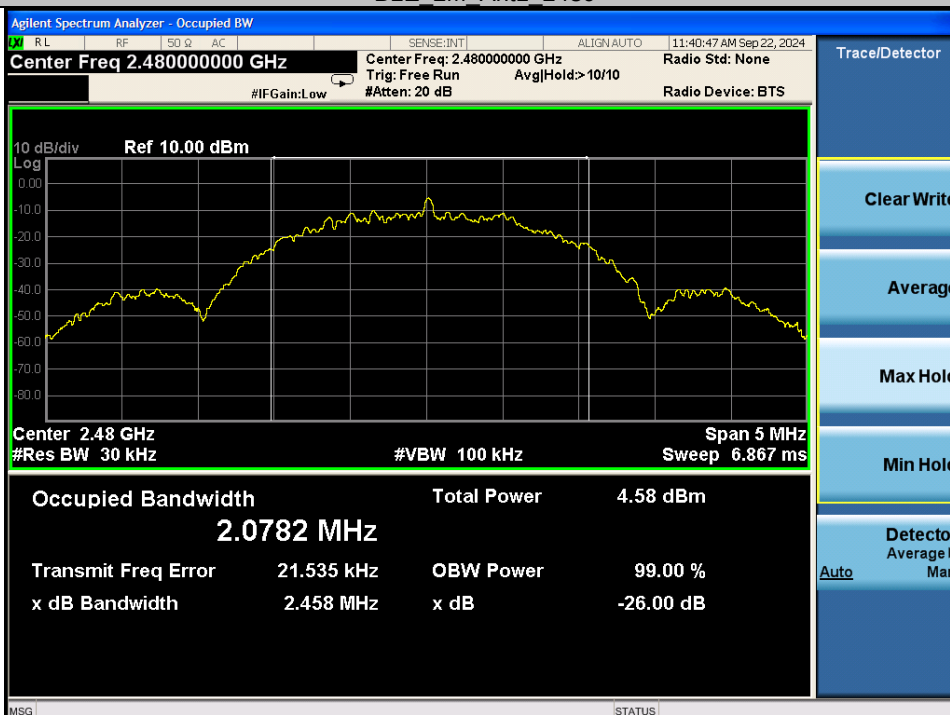
BLE 2M Ant1 2402



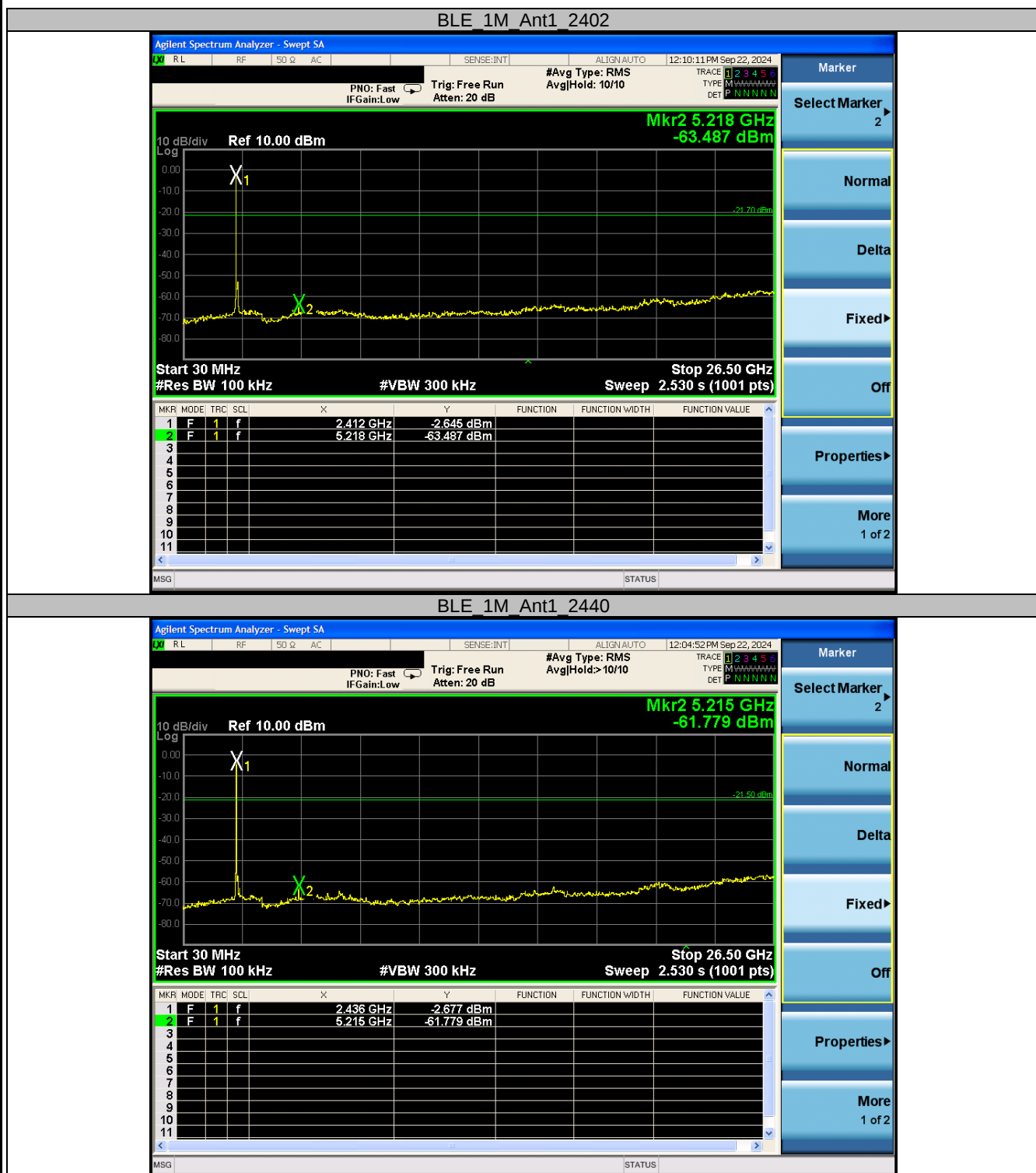
BLE 2M Ant1 2440



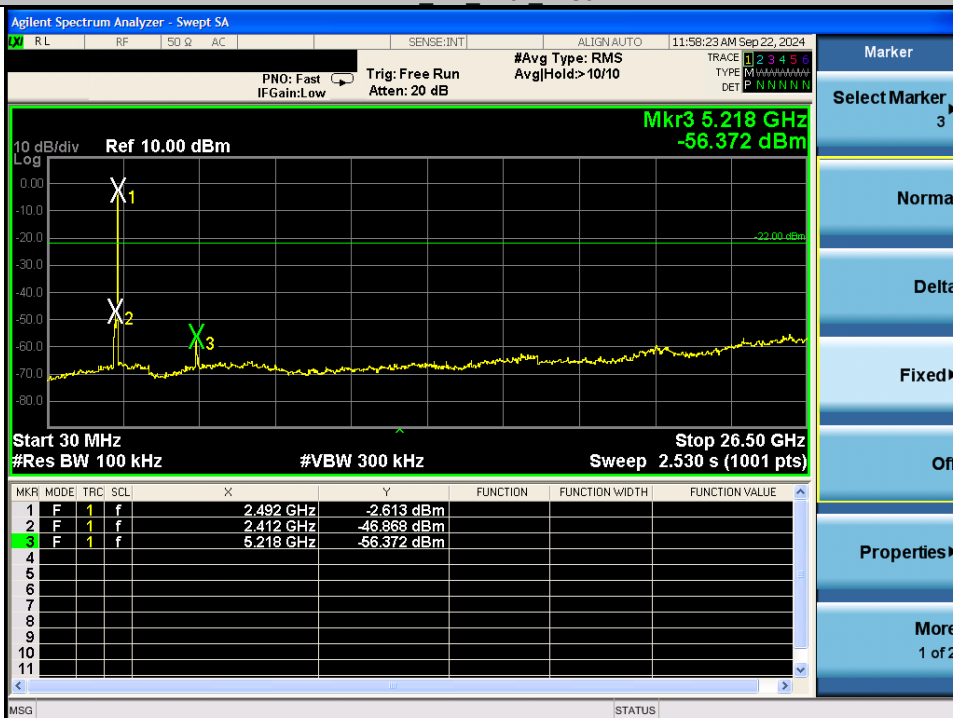
BLE 2M Ant1 2480



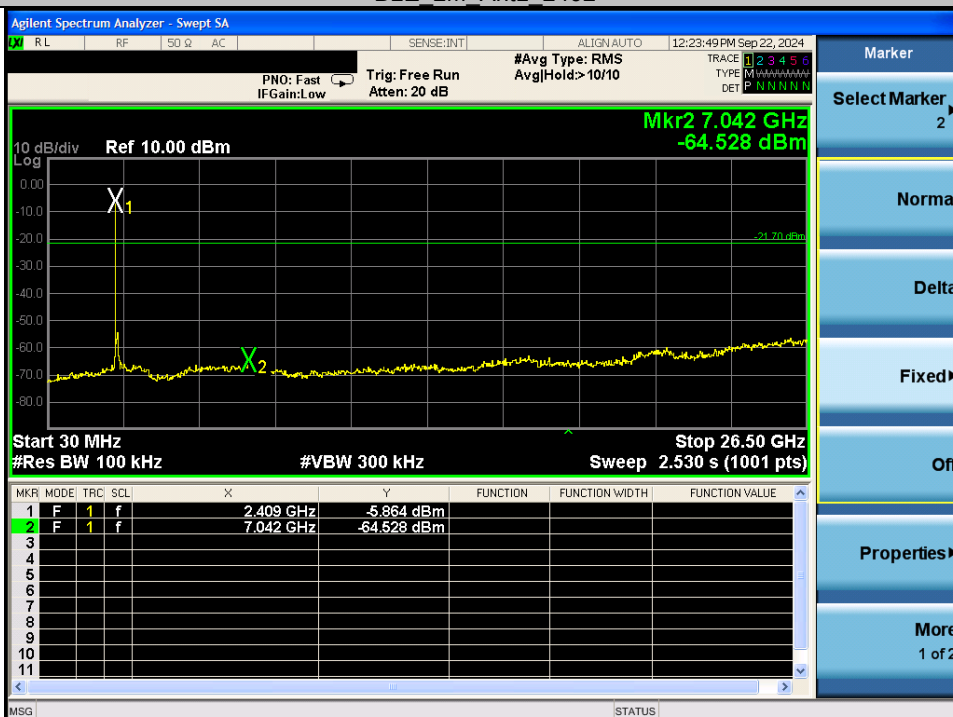
APPENDIX B.4: CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH



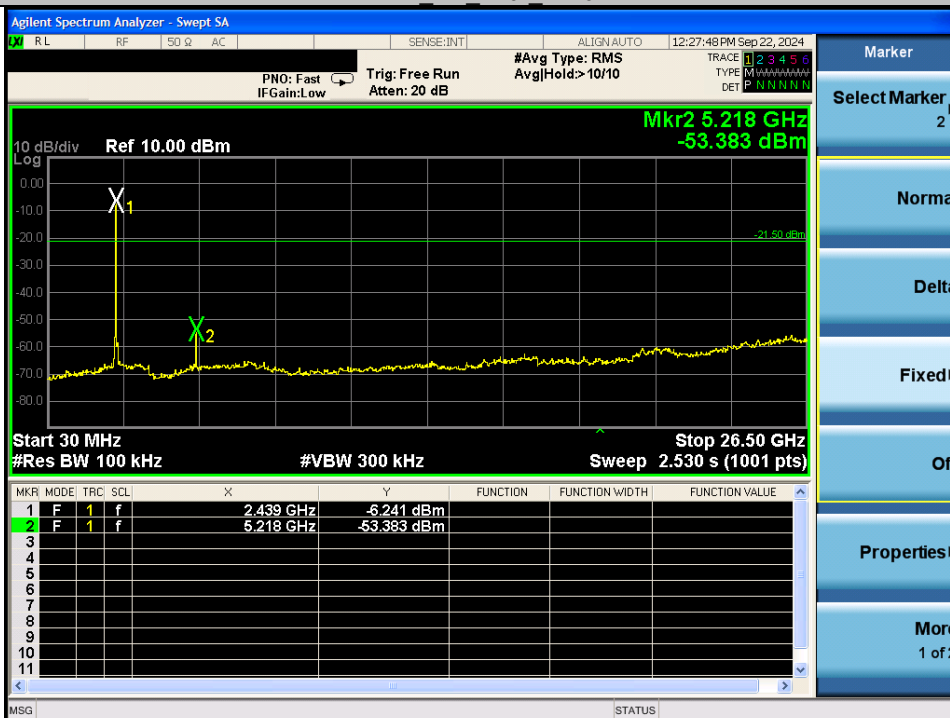
BLE 1M Ant1 2480



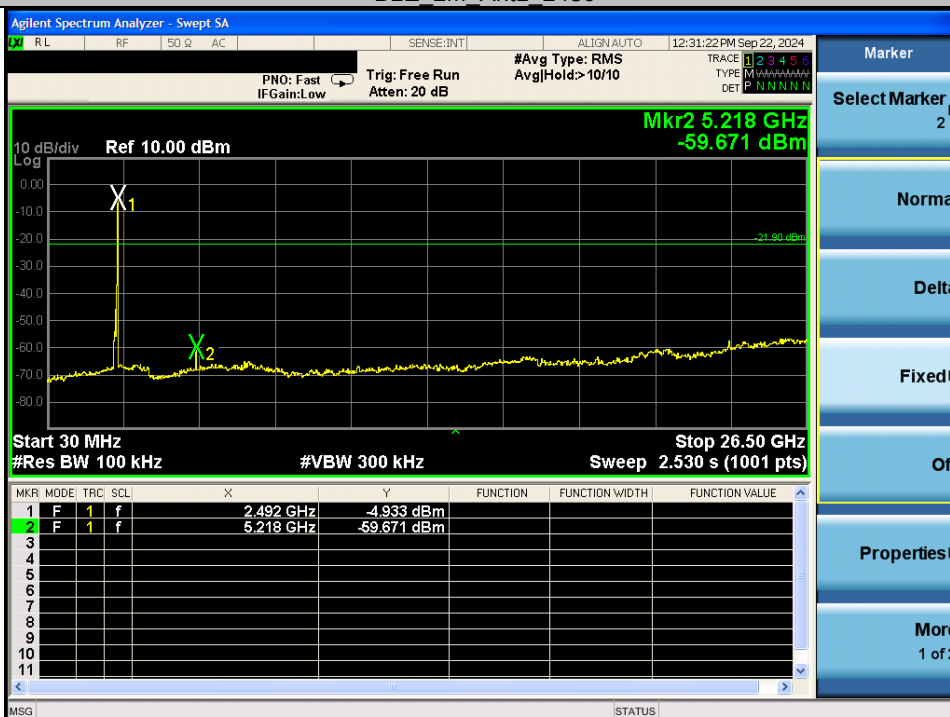
BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



APPENDIX B.5: 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



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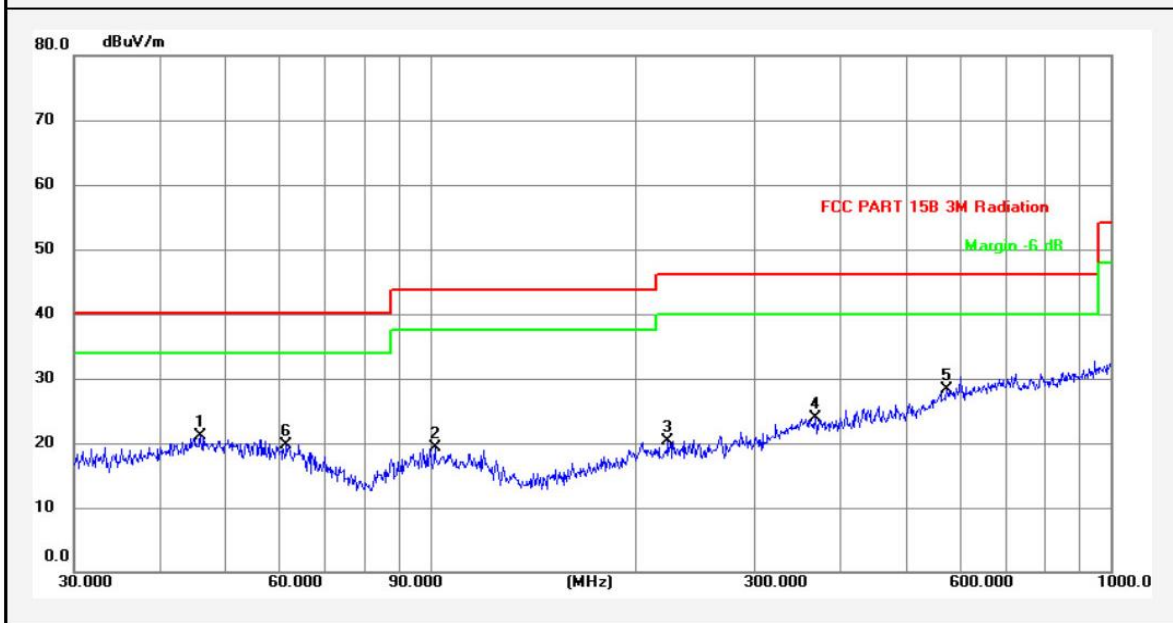
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-05	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	46.0162	12.70	8.33	21.03	40.00	-18.97	QP		
2	101.6443	10.49	8.74	19.23	43.50	-24.27	QP		
3	223.7333	11.00	9.27	20.27	46.00	-25.73	QP		
4	368.1116	14.60	9.38	23.98	46.00	-22.02	QP		
5	574.6258	18.14	10.09	28.23	46.00	-17.77	QP	*	
6	61.5618	11.00	8.76	19.76	40.00	-20.24	QP		

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

File: OB1955 30-1G\Data :#1





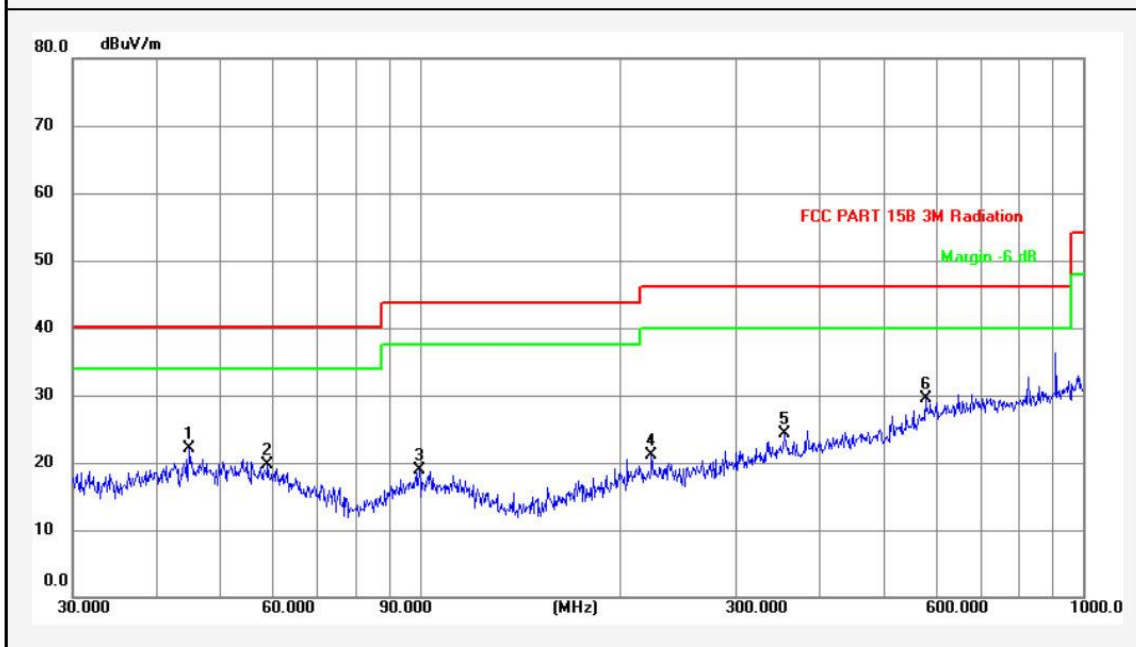
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-05	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	44.9006	12.74	9.40	22.14	40.00	-17.86	QP		
2	59.0251	11.48	8.29	19.77	40.00	-20.23	QP		
3	99.8777	10.58	8.31	18.89	43.50	-24.61	QP		
4	223.7333	11.00	10.09	21.09	46.00	-24.91	QP		
5	355.4272	14.56	9.68	24.24	46.00	-21.76	QP		
6	578.6700	18.26	11.31	29.57	46.00	-16.43	QP	*	

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

File: OB1955 30-1G\Data :#2





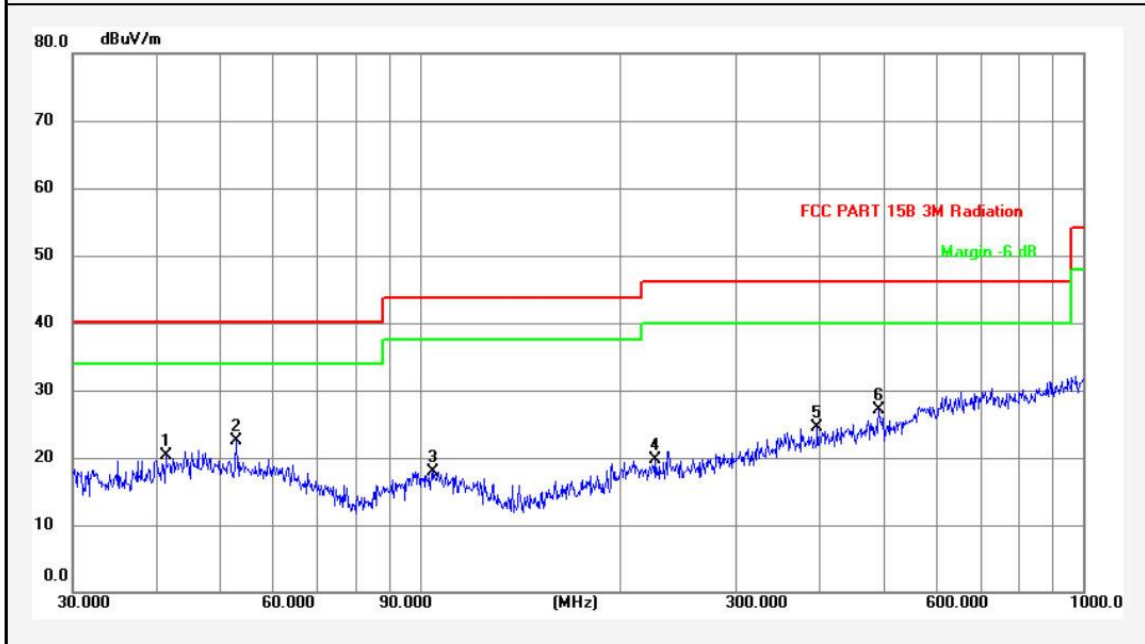
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-05	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	41.4215	11.83	8.51	20.34	40.00	-19.66	QP		
2	52.9453	12.10	10.33	22.43	40.00	-17.57	QP	*	
3	104.9031	10.28	7.72	18.00	43.50	-25.50	QP		
4	226.8935	11.01	8.67	19.68	46.00	-26.32	QP		
5	397.6333	14.66	9.79	24.45	46.00	-21.55	QP		
6	492.4685	15.87	11.31	27.18	46.00	-18.82	QP		

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

File: OB1955 30-1G\Data :#3



Appendix B

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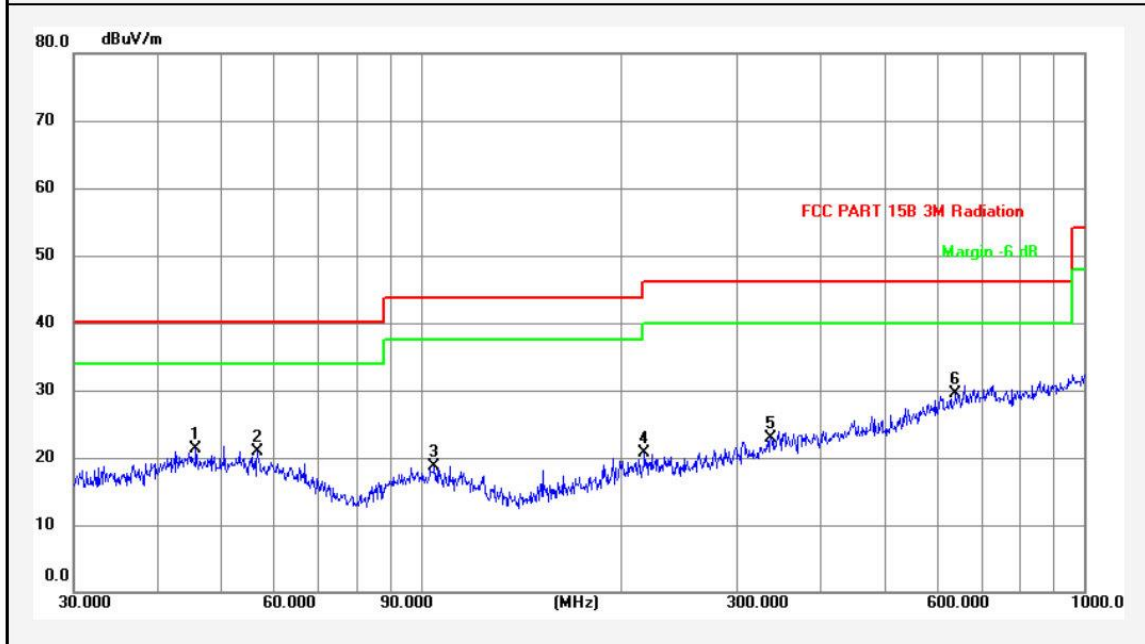
Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.: LP24070228C01-05
Test Standard: FCC PART 15B 3M Radiation
EUT: Incase Ergonomic Mouse
Model No.: OB1955
Test Mode: TX
Remark 1: 2440MHZ

Temp: 23.7 (C) / 52 %RH/ 1014
Test Engineer: Lucas
Power Rating: DC 3V
Ant. Polarization: Vertical



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	45.8551	12.71	8.67	21.38	40.00	-18.62	QP		
2	56.7916	11.70	9.17	20.87	40.00	-19.13	QP		
3	104.9031	10.28	8.34	18.62	43.50	-24.88	QP		
4	217.5442	10.95	9.77	20.72	46.00	-25.28	QP		
5	337.2155	14.01	8.99	23.00	46.00	-23.00	QP		
6	640.6109	19.34	10.25	29.59	46.00	-16.41	QP	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1955 30-1G\Data :#4





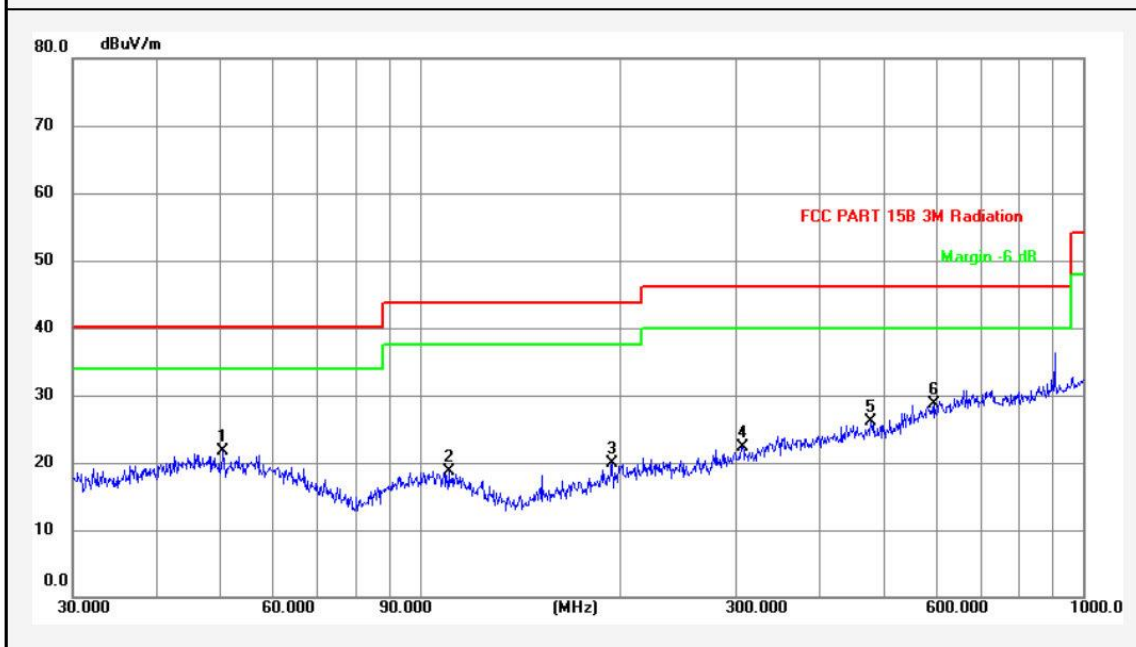
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-05	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC PART 15B 3M Radiation	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	50.5859	12.34	9.32	21.66	40.00	-18.34	QP		
2	110.5686	9.91	8.84	18.75	43.50	-24.75	QP		
3	195.1363	10.02	9.79	19.81	43.50	-23.69	QP		
4	305.6800	12.68	9.63	22.31	46.00	-23.69	QP		
5	478.8455	15.80	10.23	26.03	46.00	-19.97	QP		
6	597.2233	18.82	9.82	28.64	46.00	-17.36	QP	*	

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

File: OB1955 30-1G\Data :#5





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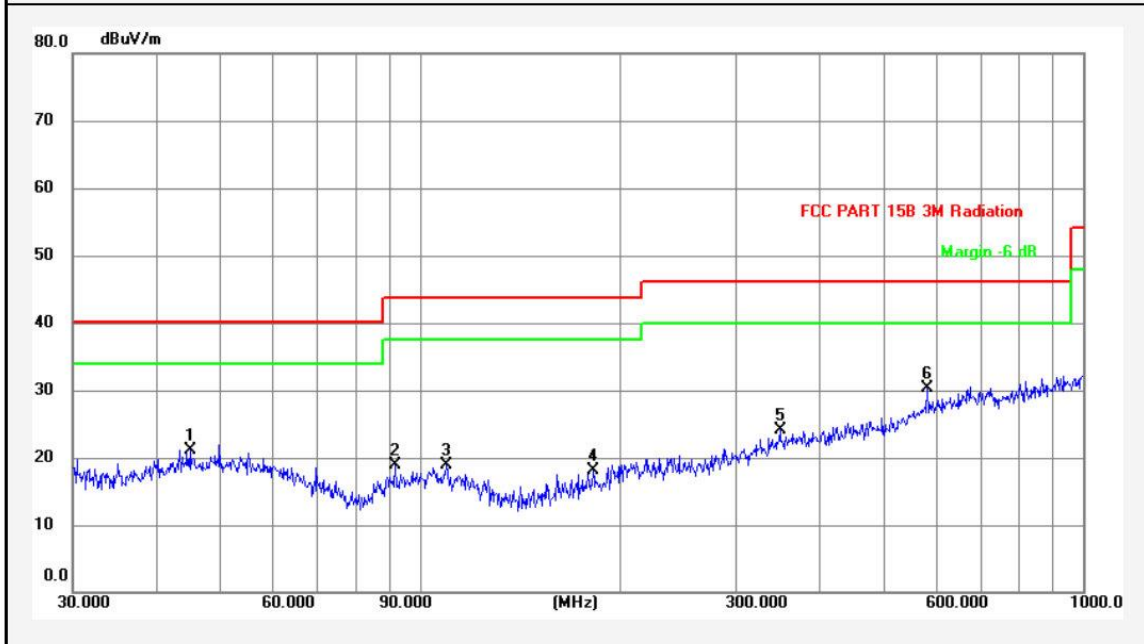
Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.: LP24070228C01-05
Test Standard: FCC PART 15B 3M Radiation
EUT: Incase Ergonomic Mouse
Model No.: OB1955
Test Mode: TX
Remark 1: 2480MHZ

Temp: 23.7 (C) / 52 %RH/ 1014
Test Engineer: Lucas
Power Rating: DC 3V
Ant. Polarization: Horizontal



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	45.0583	12.78	8.42	21.20	40.00	-18.80	QP		
2	91.8161	9.06	9.82	18.88	43.50	-24.62	QP		
3	109.7959	9.96	9.01	18.97	43.50	-24.53	QP		
4	182.5592	9.05	8.97	18.02	43.50	-25.48	QP		
5	349.2500	14.52	9.65	24.17	46.00	-21.83	QP		
6	582.7423	18.38	11.83	30.21	46.00	-15.79	QP	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1955 30-1G\Data :#6



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1GHz-18GHz

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



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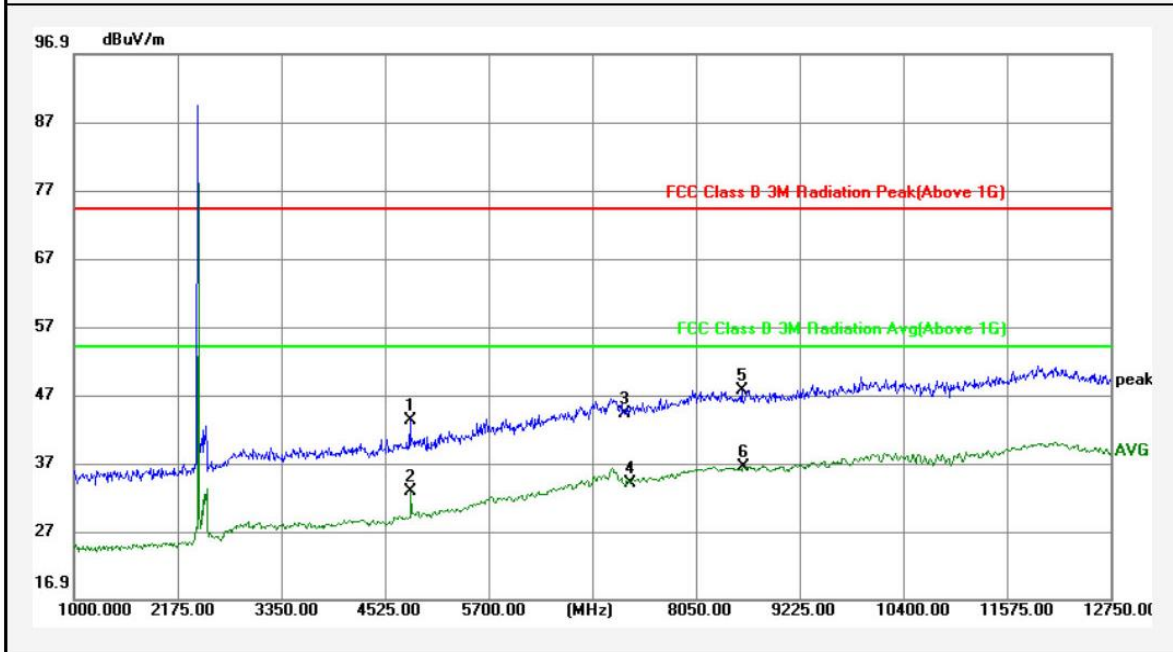
Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.: LP24070228C01-03
Test Standard: FCC Class B 3M Radiation Peak(Above 1G)
EUT: Incase Ergonomic Mouse
Model No.: OB1955
Test Mode: TX
Remark 1: 2402MHZ

Temp: 23.7 (C) / 52 %RH/ 1014
Test Engineer: Lucas
Power Rating: DC 3V
Ant. Polarization: **Horizontal**



No.	Frequency (MHz)	Factor (dBuV/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	MK.	Remark
1	4807.000	-1.02	44.14	43.12	74.00	-30.88	peak		
2	4818.750	-1.01	33.79	32.78	54.00	-21.22	AVG		
3	7239.250	5.67	38.55	44.22	74.00	-29.78	peak		
4	7298.000	5.64	28.44	34.08	54.00	-19.92	AVG		
5	8567.000	6.35	41.32	47.67	74.00	-26.33	peak		
6	8590.500	6.40	30.06	36.46	54.00	-17.54	AVG	*	

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

File: OB1955 RSEData :#1





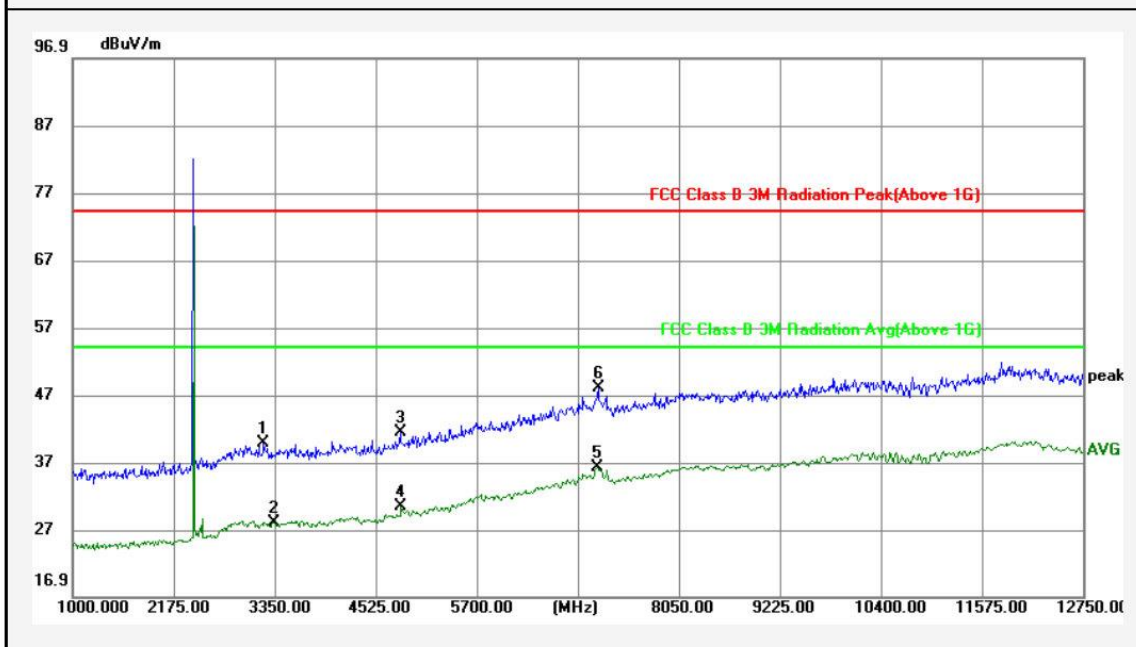
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	3220.750	-2.12	41.86	39.74	74.00	-34.26	peak		
2	3338.250	-1.91	29.92	28.01	54.00	-25.99	AVG		
3	4807.000	-1.02	42.43	41.41	74.00	-32.59	peak		
4	4818.750	-1.01	31.49	30.48	54.00	-23.52	AVG		
5	7098.250	5.73	30.52	36.25	54.00	-17.75	AVG	*	
6	7110.000	5.73	42.35	48.08	74.00	-25.92	peak		

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

File: OB1955 RSE\Data :#2





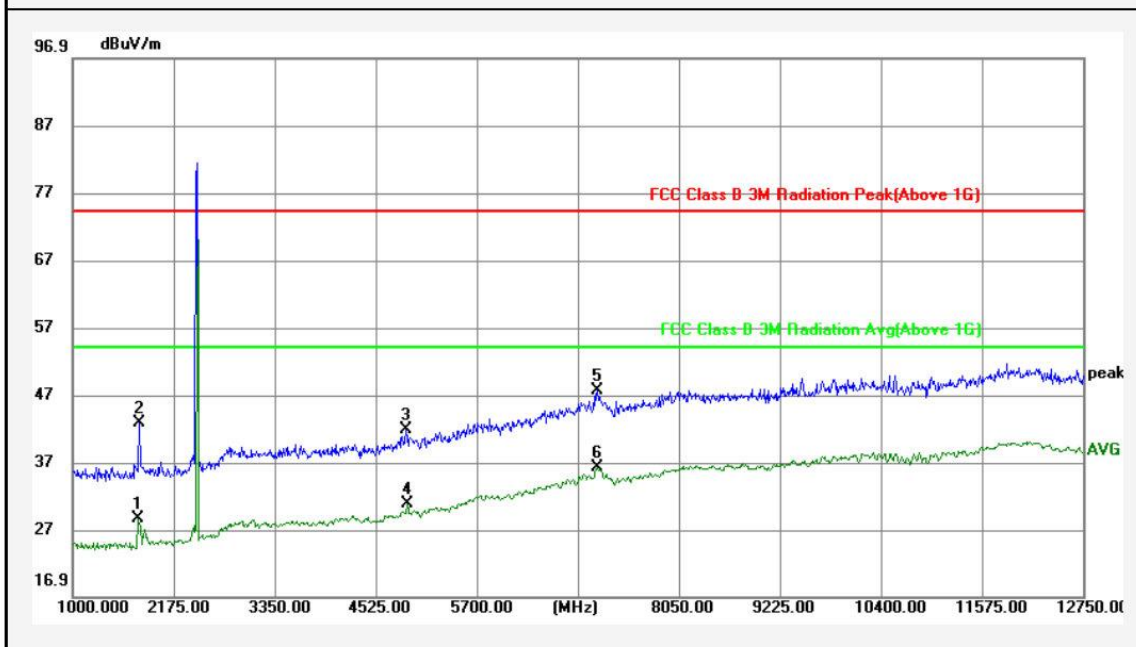
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	1763.750	-6.92	35.55	28.63	54.00	-25.37	AVG		
2	1775.500	-6.89	49.62	42.73	74.00	-31.27	peak		
3	4877.500	-1.01	42.75	41.74	74.00	-32.26	peak		
4	4889.250	-1.01	31.85	30.84	54.00	-23.16	AVG		
5	7098.250	5.73	41.82	47.55	74.00	-26.45	peak		
6	7098.250	5.73	30.49	36.22	54.00	-17.78	AVG	*	

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

File: OB1955 RSE\Data :#3





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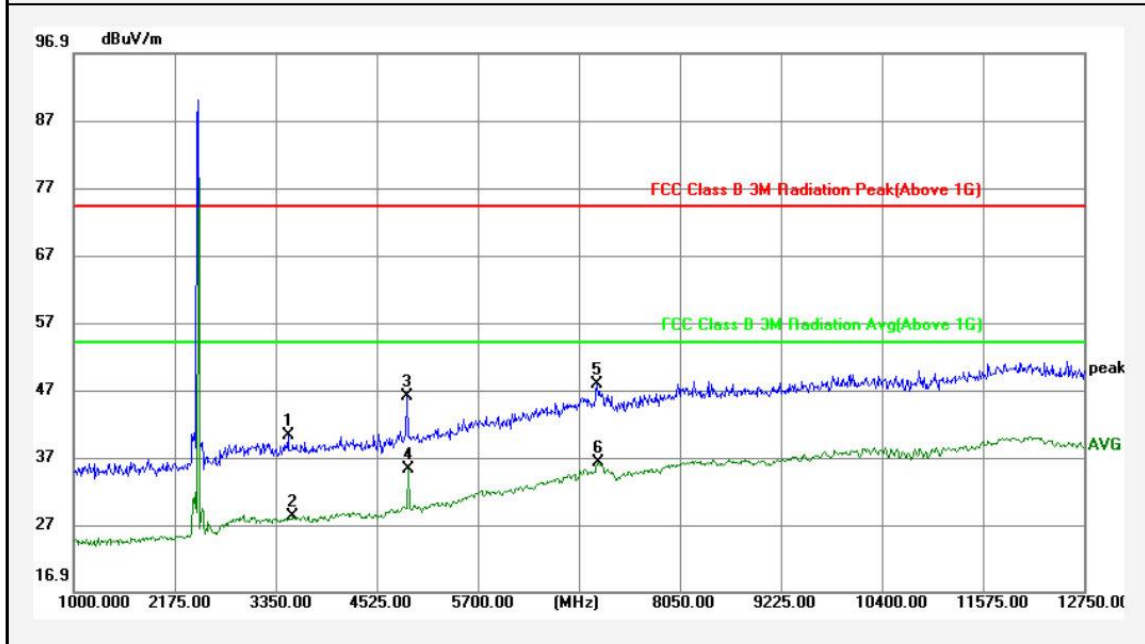
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	3491.000	-1.65	41.81	40.16	74.00	-33.84	peak		
2	3549.750	-1.54	29.66	28.12	54.00	-25.88	AVG		
3	4877.500	-1.01	46.99	45.98	74.00	-28.02	peak		
4	4889.250	-1.01	36.30	35.29	54.00	-18.71	AVG		
5	7086.500	5.73	42.15	47.88	74.00	-26.12	peak		
6	7098.250	5.73	30.42	36.15	54.00	-17.85	AVG	*	

Note: Level=Reading+Factor,Over=Level-Limit.

MK.:Maximum data x:Over limit !:Over margin

File: OB1955 RSEData :#4





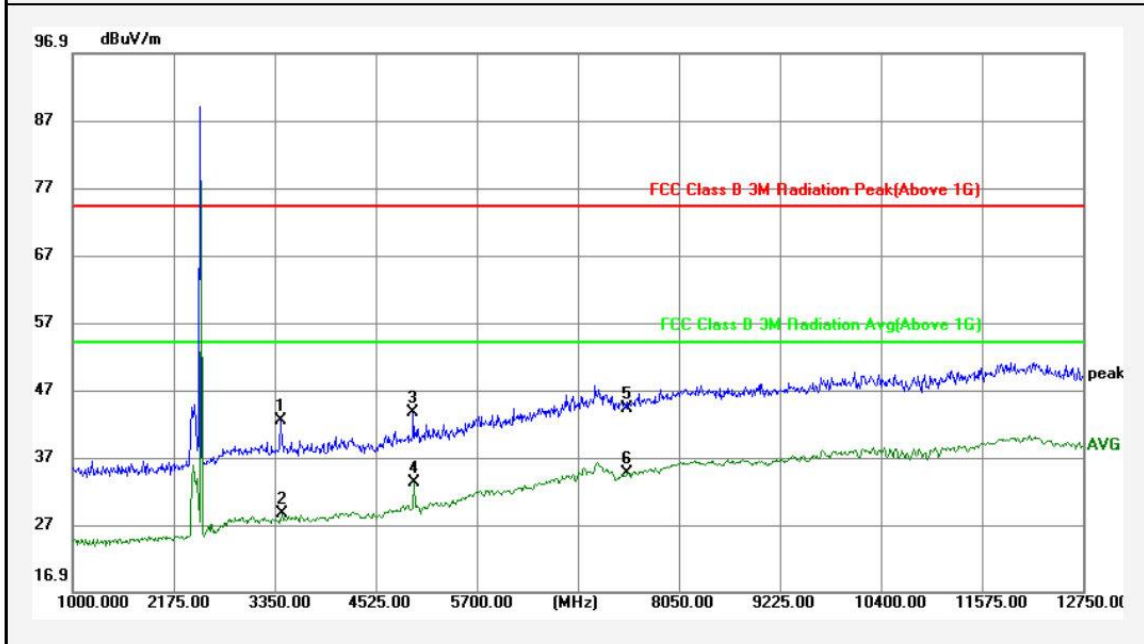
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	3420.500	-1.77	44.10	42.33	74.00	-31.67	peak		
2	3432.250	-1.74	30.34	28.60	54.00	-25.40	AVG		
3	4959.750	-1.00	44.63	43.63	74.00	-30.37	peak		
4	4971.500	-1.00	34.24	33.24	54.00	-20.76	AVG		
5	7450.750	5.57	38.72	44.29	74.00	-29.71	peak		
6	7450.750	5.57	29.11	34.68	54.00	-19.32	AVG	*	

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

File: OB1955 RSEData :#5





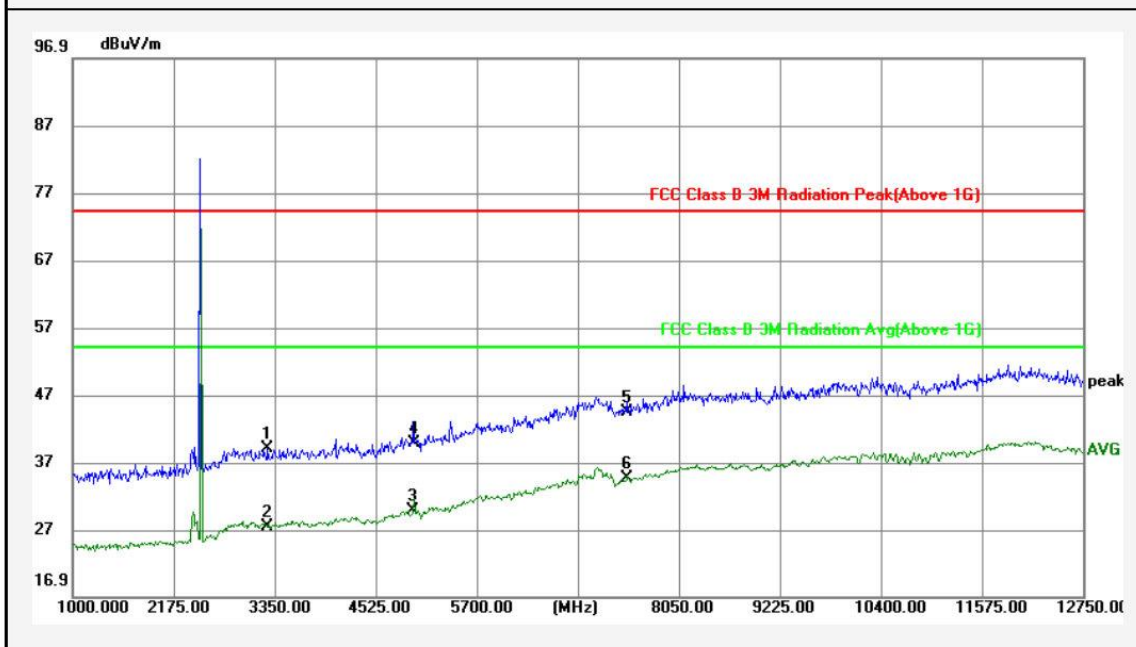
Dongguan Lepont Testing Service Co., Ltd.
Room 102, Building 11, No.7 Houjie Science And Technology
Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	3256.000	-2.06	41.05	38.99	74.00	-35.01	peak		
2	3256.000	-2.06	29.53	27.47	54.00	-26.53	AVG		
3	4959.750	-1.00	30.71	29.71	54.00	-24.29	AVG		
4	4960.000	-1.00	40.88	39.88	74.00	-34.12	peak		
5	7440.000	5.58	38.92	44.50	74.00	-29.50	peak		
6	7440.000	5.58	29.12	34.70	54.00	-19.30	AVG	*	

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

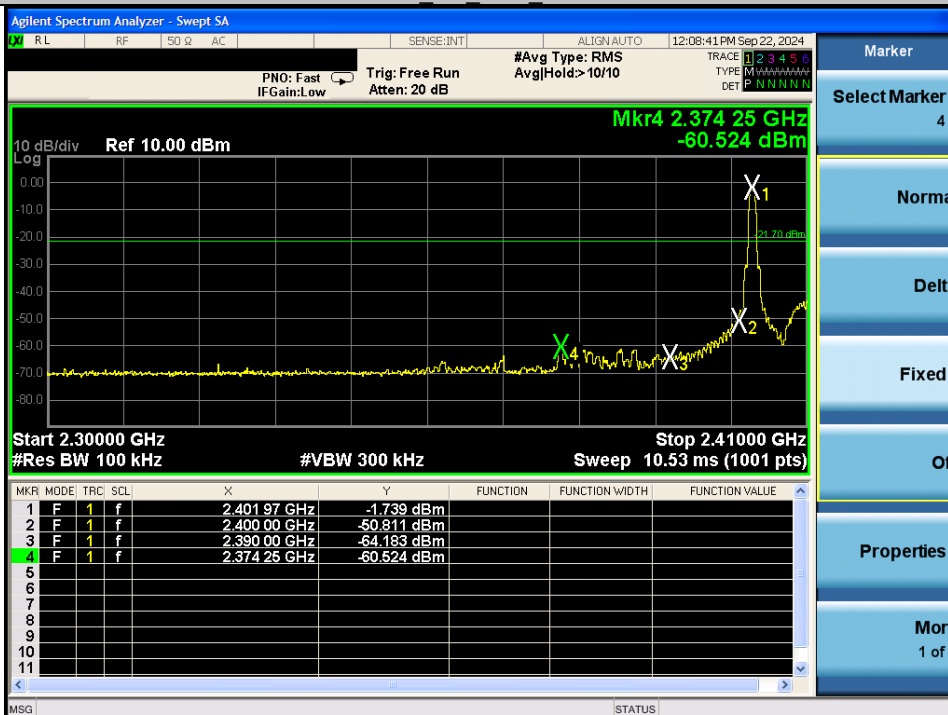
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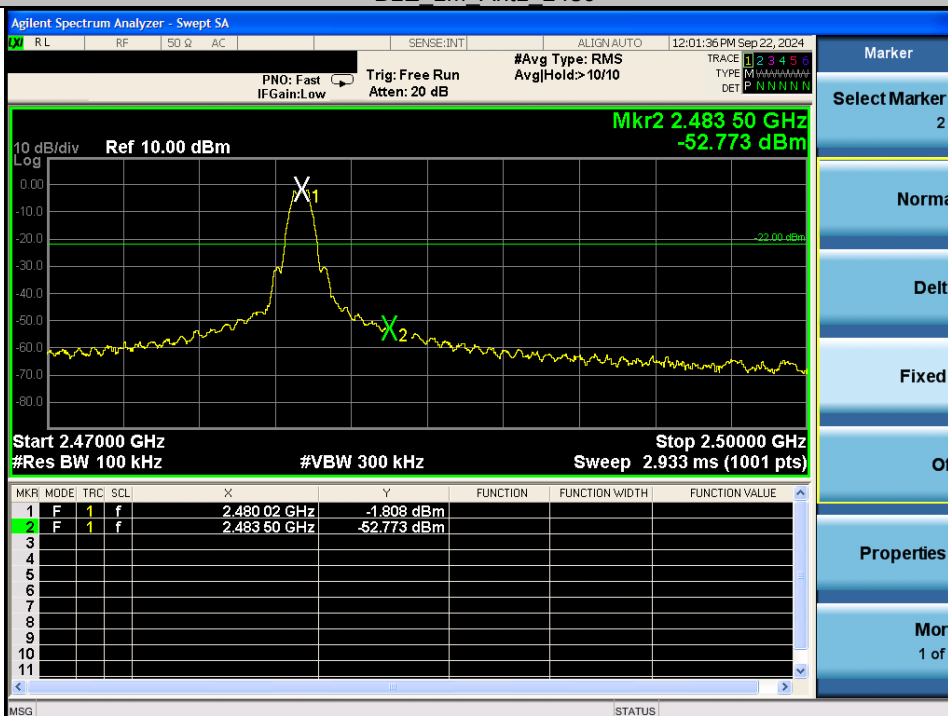
APPENDIX B.6: RADIATED EMISSIONS IN RESTRICTED BANDS

Conduction

BLE_1M_Ant1_2402



BLE_1M_Ant1_2480



BLE 2M Ant1 2402



BLE 2M Ant1 2480



Radiation



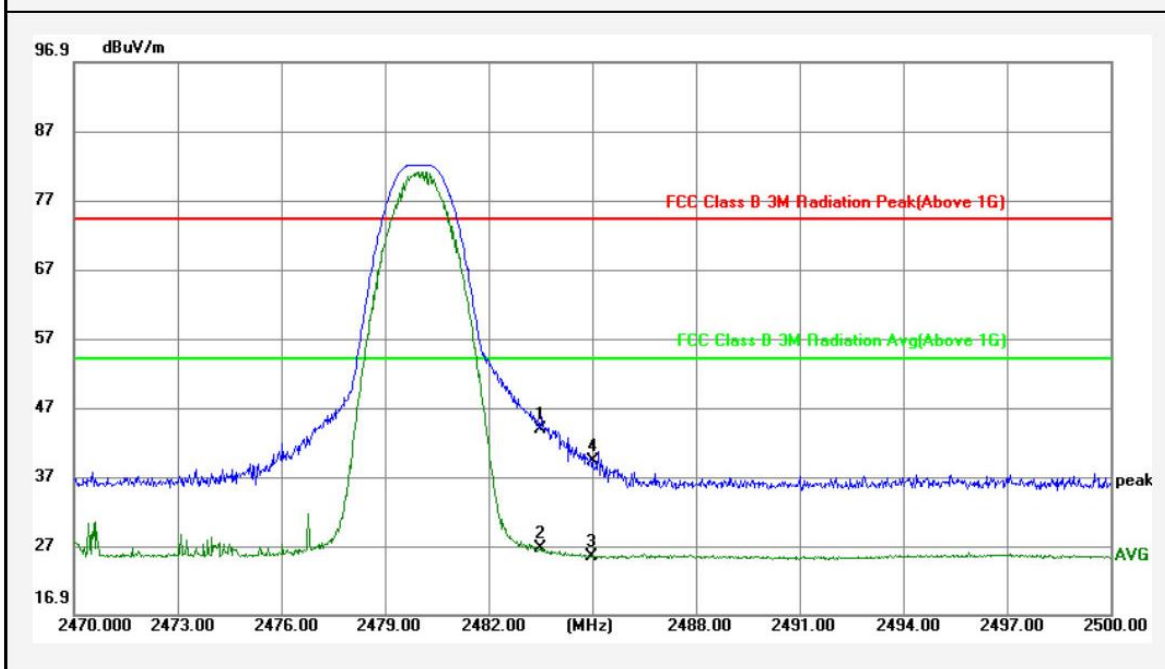
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	48.26	43.80	74.00	-30.20	peak		
2	2483.500	-4.46	31.01	26.55	54.00	-27.45	AVG	*	
3	2484.970	-4.46	29.79	25.33	54.00	-28.67	AVG		
4	2485.000	-4.46	43.69	39.23	74.00	-34.77	peak		

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

File: OB1955 BANDA\Data :#1





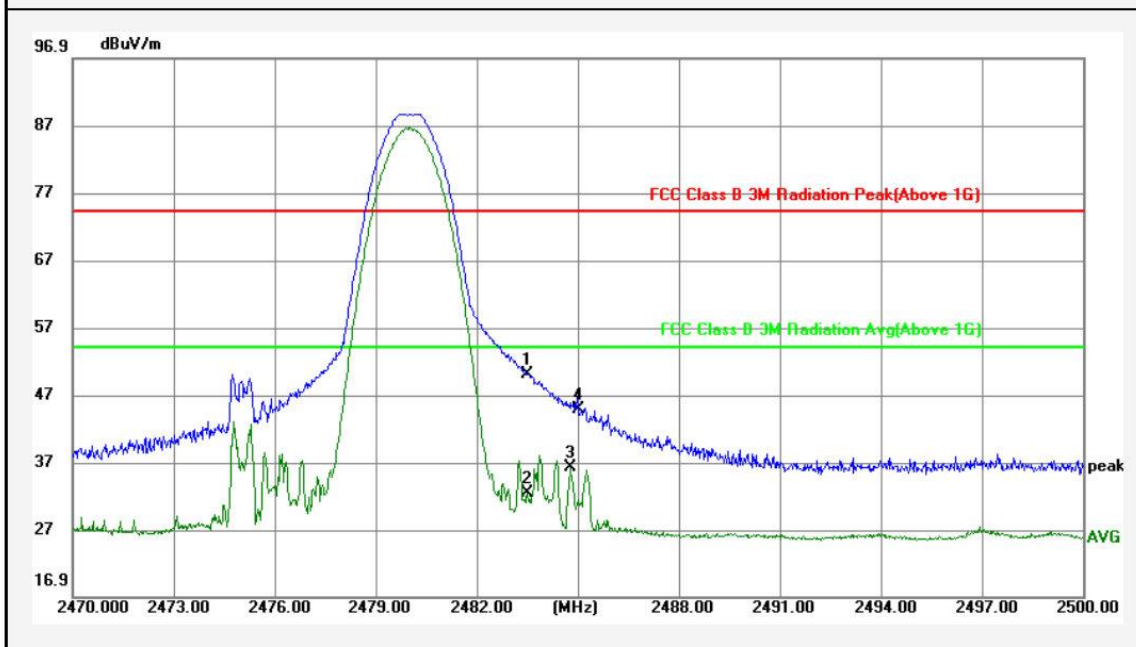
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	54.51	50.05	74.00	-23.95	peak		
2	2483.500	-4.46	36.87	32.41	54.00	-21.59	AVG		
3	2484.760	-4.46	40.63	36.17	54.00	-17.83	AVG	*	
4	2485.000	-4.46	49.36	44.90	74.00	-29.10	peak		

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

File: OB1955 BANDA\Data :#2





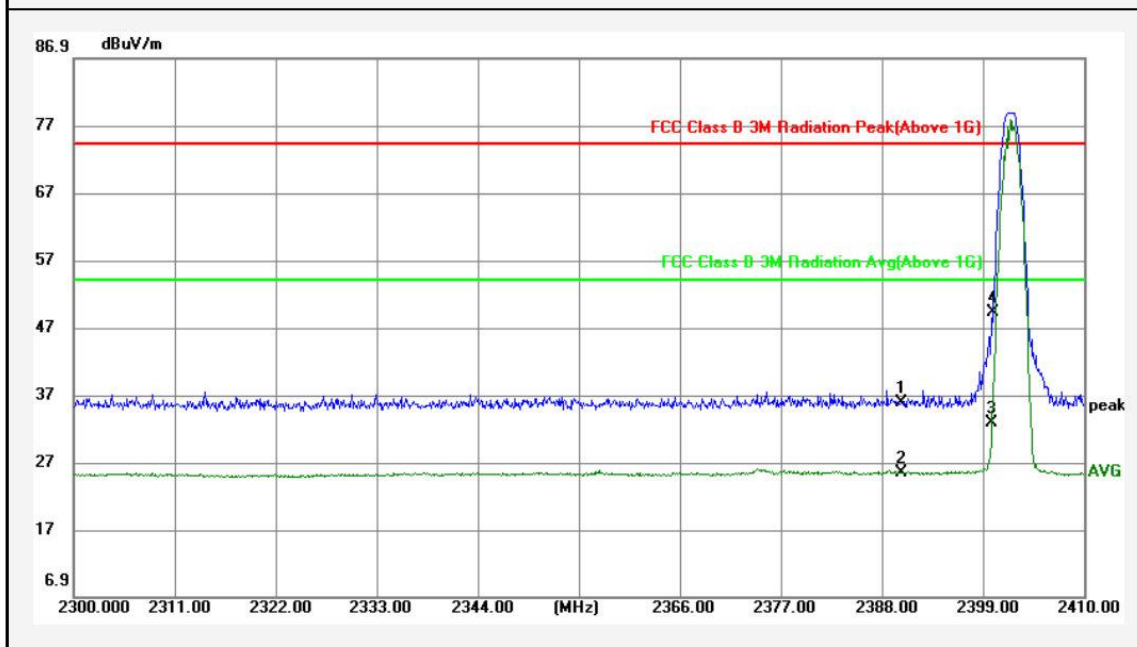
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Avenue, Houjie, Dongguan, Guangdong, China
Tel.: +86 769 8308 6888 Http://www.lepont.com.cn

Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	2390.000	-4.83	40.66	35.83	74.00	-38.17	peak		
2	2390.090	-4.83	30.17	25.34	54.00	-28.66	AVG		
3	2399.990	-4.79	37.51	32.72	54.00	-21.28	AVG	*	
4	2400.000	-4.79	53.93	49.14	74.00	-24.86	peak		

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

File: OB1955 BANDA\Data :#3





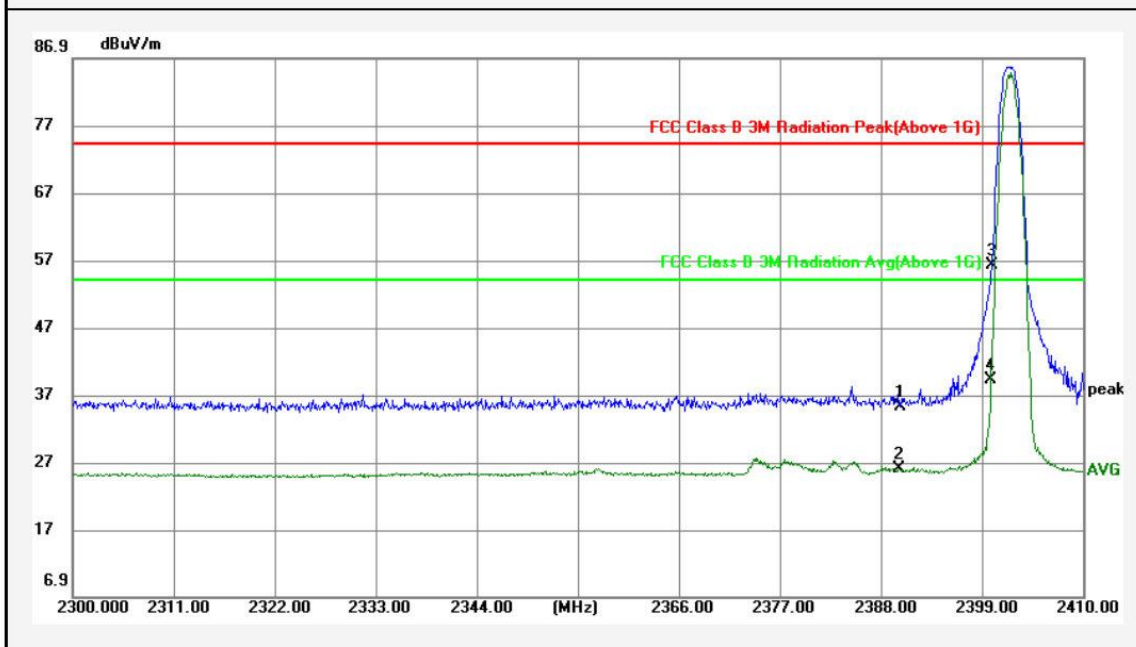
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Radiation Emission

Site: 966 Chamber 1

2024/9/26

Job No.:	LP24070228C01-03	Temp:	23.7 (C) / 52 %RH/ 1014
Test Standard:	FCC Class B 3M Radiation Peak(Above 1G)	Test Engineer:	Lucas
EUT:	Incase Ergonomic Mouse	Power Rating:	DC 3V
Model No.:	OB1955	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	40.03	35.20	74.00	-38.80	peak		
2	2389.980	-4.83	30.81	25.98	54.00	-28.02	AVG		
3	2400.000	-4.79	61.00	56.21	74.00	-17.79	peak		
4	2399.990	-4.79	43.97	39.18	54.00	-14.82	AVG	*	

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

File: OB1955 BANDA\Data :#4

