

Prüfbericht-Nr.: Test report no.:	CN25KBBR 001	Auftrags-Nr.: Order no.:	168531160	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2025-01-16	
Auftraggeber: Client:	FUJIAN LANDI COMMERCIAL EQUIPMENT CO., LTD. Building 17, Section A, Software Park, No 89 Software Road, Gulou District, Fuzhou, Fujian 350003, P.R. China			
Prüfgegenstand: Test item:	POS Terminal			
Bezeichnung / Typ-Nr.: Identification / Type no.:	C20DS (Trademark: N/A)			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	CFR Title 47 FCC Part 15, Subpart C, Section 15.247 CFR Title 47 FCC Part 15, Subpart C, Section 15.207 CFR Title 47 FCC Part 15, Subpart C, Section 15.209 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: Date of sample receipt:	2025-01-23	Please refer to Photo Document		
Prüfmuster-Nr.: Test sample no.:	A003911736-001~005 A003913858-001~016			
Prüfzeitraum: Testing period:	2025-02-13 - 2025-03-29			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	 Bell Hu		genehmigt von: authorized by:	 Hardy Suo
Datum: Date:	2025-04-03		Ausstellungsdatum: Issue date:	2025-04-03
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	This report is for Bluetooth LE and 2.4GHz Wi-Fi. FCC ID: 2AG6N-C20DS IC: 23725-C20DS HVIN: C20DS			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.				

Prüfbericht-Nr.: CN25KBBR 001
Test report no.:

Seite 2 von 23
Page 2 of 23

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
2	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. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature <i>As contractually agreed, this document has been signed digitally only. TUV 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, TUV 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. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature</i>
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report.</i> <i>Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, 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>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>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES.....	5
2.1	TEST FACILITIES.....	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	7
2.4	CALIBRATION	7
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	7
2.7	STATUS OF FACILITY USED FOR TESTING	7
3	GENERAL PRODUCT INFORMATION	8
3.1	PRODUCT FUNCTION AND INTENDED USE	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS.....	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	14
5.1.1	<i>Antenna Requirement.....</i>	<i>14</i>
5.1.2	<i>Maximum Conducted Output Power</i>	<i>15</i>
5.1.3	<i>Conducted Power Spectral Density.....</i>	<i>17</i>
5.1.4	<i>6dB Bandwidth</i>	<i>18</i>
5.1.5	<i>99% Bandwidth</i>	<i>19</i>
5.1.6	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth</i>	<i>20</i>
5.1.7	<i>Radiated Spurious Emission.....</i>	<i>21</i>
5.1.8	<i>Conducted Emission on AC Mains.....</i>	<i>22</i>
6	PHOTOGRAPHS OF THE TEST SET-UP	23
7	LIST OF TABLES	23

1 General Remarks

1.1 Complementary Materials

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

Appendix A: Test Results of Bluetooth LE;

Appendix B: Test Results of 2.4GHz Wi-Fi;

Appendix C: Photographs of Test Set-up.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

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

A2LA Certificate Number: 5162.01

FCC Registration No.: 694916

ISED Wireless Device Testing Laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
Signal Analyzer	R&S	FSV 40	101441	2024-09-26	2025-09-25
OSP	R&S	OSP 150	101017	2024-10-31	2025-10-30
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A	N/A
Power Meter	R&S	NRP2	107105	2024-10-31	2025-10-30
Wideband Power Sensor	R&S	NRP-Z81	105677	2024-09-26	2025-09-25
Shielding Room	Albatross	SR1	APC17151-SR1	2024-09-14	2027-09-13
Unwanted Emission Testing (TS9975)					
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2024-09-29	2025-09-28
Signal Analyzer	R&S	FSV 40	101439	2024-09-29	2025-09-28

Prüfbericht - Nr.: CN25KBBR 001
Test Report No.:

Seite 6 von 23
Page 6 of 23

System Controller Interface	R&S	SCI-100	S10010038	N/A	N/A
Filterbank	R&S	Wlan	100759	2024-09-29	2025-09-28
OSP	R&S	OSP 120	102040	N/A	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2024-09-29	2025-09-28
Amplifier	R&S	SCU-18F	180070	2024-09-29	2025-09-28
Amplifier	R&S	SCU40A	100475	2024-09-29	2025-09-28
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2024-09-28	2025-09-27
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2024-09-28	2025-09-27
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2024-09-28	2025-09-27
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2024-09-28	2025-09-27
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-09-14	2027-09-13

Conducted Emission

Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR3	102680	2026-02-09
Artificial Mains Network	R&S	ENV216	102333	2025-07-22
Artificial Mains Network	R&S	ENV216	101445	2026-02-09
LISN ENV216-Receiver cable in SR3	Calibration frequency range: 9 kHz~30 MHz			2025-12-20
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

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

3 General Product Information

3.1 Product Function and Intended Use

The Product is a POS Terminal which supports Bluetooth dual mode, 2.4 GHz Wi-Fi, 5GHz Wi-Fi and NFC functions.

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:	POS Terminal
Type Designation:	C20DS
Trademark:	N/A
Operating Voltage:	AC/DC adapter (120V AC/60Hz) or Powered by POE port
Operating Temperature Range:	0 °C ~ +40 °C
AC/DC Adapter 1#:	Model: PA-1400-76 Input: 100-240V, 50/60Hz Output: DC 19V, 2.1A
AC/DC Adapter 2#:	Model: PA-1450-26 Input: 100-240V, 50/60Hz Output: DC 19V, 2.37A
Technical Specification of Bluetooth LE	
Operating Frequency:	2402-2480MHz
Type of Modulation:	GFSK
Channel Number:	40 channels
Data Rate:	1Mbps, 2Mbps
Channel Separation:	2 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	5.89 dBi (Provided by the Client)
The type of wideband data transmission equipment:	DTS
Technical Specification of 2.4GHz Wi-Fi	
Operating Frequency:	2412 - 2462MHz for 802.11b/g/n/ax(HT20/HE20) 2422 - 2452MHz for 802.11n/ax(HT40/HE40)
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)
Data Rate:	1/2/5.5/11 Mbps for 802.11b 6/9/12/18/24/36/48/54 Mbps for 802.11g MCS0 ~ MCS7 for 802.11n(HT20)/n(HT40) MCS0 ~ MCS11 for 802.11ax(HT20)/ax(HT40)
Channel Number:	11 channels for 802.11b/g/n/ax(HT20/HE20) 7 channels for 802.11n/ax(HT40/HE40)
Channel Separation:	5 MHz

Antenna Type:	Integral Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	5.89 dBi (Provided by the Client)
The type of wideband data transmission equipment:	DTS

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

Table 4: RF Channel and Frequency of Bluetooth LE

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

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

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

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

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

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

3.3 Independent Operation Modes

The basic operation modes are:

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

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|------------------------------|-------------------------|
| - Application Form | - User Manual |
| - ID Label and Location Info | - Operation Description |

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 C20DS in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8
Portable Laptop	Lenovo	ThinkPad T480	10Q67059
POE Gigabit Unmanaged Switch	NETGEAR INTERNATIONAL LTD	GS108PP	5WT119D3511DC
POE Adapter	Ruijie Networks Co., Ltd.	RG-POE-50-60W-MG	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)

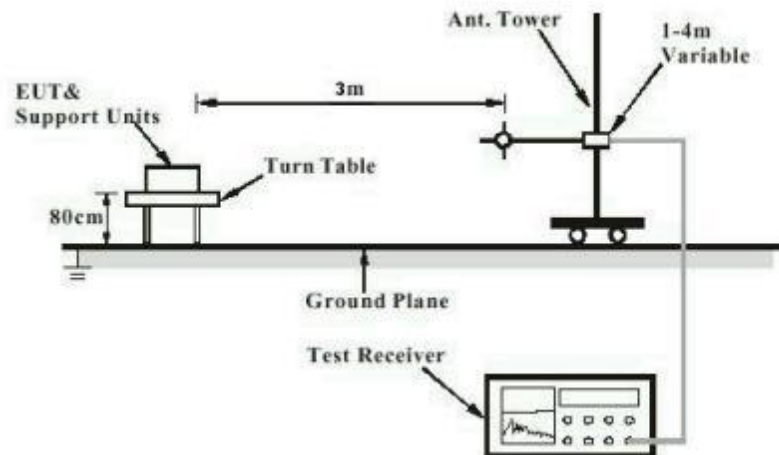


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



Diagram of Measurement Configuration for Mains Conduction Measurement

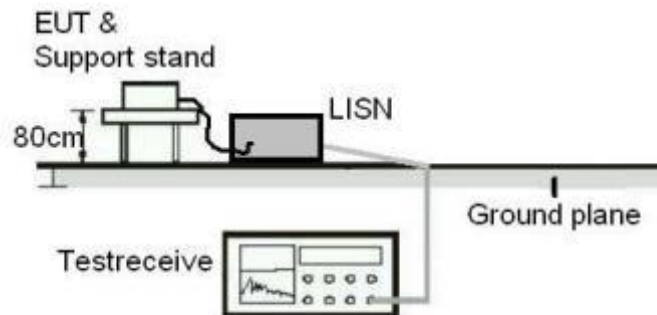
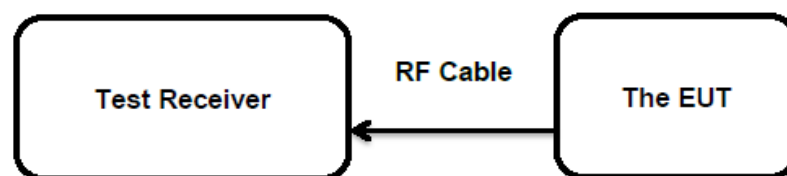


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

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

According to the manufacturer declared, the EUT has an Integral antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

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

Refer to EUT Photo for further details.

Prüfbericht - Nr.: CN25KBBR 001
Test Report No.:Seite 15 von 23
Page 15 of 23

5.1.2 Maximum 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	: 2025-02-21
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

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

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
Bluetooth LE	1 Mbps	2402	3.88	0.0024	< 1.0
		2440	2.26	0.0017	
		2480	0.72	0.0012	
	2 Mbps	2402	3.87	0.0024	
		2440	2.12	0.0016	
		2480	0.81	0.0012	
Maximum Measured Value			3.88	0.0024	

Max. e.i.r.p.=3.88dBm+5.89dBi=9.77dBm, which is less than 36dBm=4W.

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

Test Mode	Data Rate	Test Channel (MHz)	Measured Peak Power		Limit (W)
			(dBm)	(W)	
802.11b	1 Mbps	2412	13.90	0.0245	< 1.0
		2437	13.83	0.0242	
		2462	12.12	0.0163	
802.11g	6 Mbps	2412	18.84	0.0766	
		2437	16.69	0.0467	
		2462	17.74	0.0594	
802.11n (HT20)	MCS0	2412	19.82	0.0959	
		2437	18.11	0.0647	
		2462	18.75	0.0750	
802.11n (HT40)	MCS0	2422	19.57	0.0906	
		2437	17.91	0.0618	
		2452	18.03	0.0635	
802.11ax (HE20)	MCS0	2412	18.4	0.0692	
		2437	17.07	0.0509	
		2462	17.72	0.0592	
802.11ax (HE40)	MCS0	2422	18.34	0.0682	
		2437	17.06	0.0508	
		2452	17.37	0.0546	
Maximum Measured Value			19.82	0.0959	

Max. e.i.r.p.=19.82dBm+5.89dBi=25.71dBm, which is less than 36dBm=4W.

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 5.89dBi for Bluetooth & 2.4GHz Wi-Fi
e.i.r.p.=P_(Conducted power)+ G, which is far below the 4 W

Prüfbericht - Nr.: CN25KBBR 001
Test Report No.:

Seite 17 von 23
Page 17 of 23

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	: 2025-02-21
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A, 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	: 2025-02-21
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
Atmospheric pressure	: 101 kPa

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

Prüfbericht - Nr.: CN25KBBR 001
Test Report No.:

Seite 19 von 23
Page 19 of 23

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 : 2025-02-21
Input voltage : AC 120V, 60Hz
Operation mode : A, B
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

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

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	: 2025-02-21
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Test channel	: Low / Middle / High
Ambient temperature	: 24.8 °C
Relative humidity	: 55 %
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.

Prüfbericht - Nr.: CN25KBBR 001
Test Report No.:Seite 21 von 23
Page 21 of 23

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	: 2025-02-18 to 2025-02-21
Input voltage	: AC 120V, 60Hz
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.

Prüfbericht - Nr.: CN25KBBR 001
Test Report No.:Seite 22 von 23
Page 22 of 23

5.1.8 Conducted Emission on AC Mains

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

Test standard	: FCC Part 15.207(a) RSS-Gen Section 8.8
Basic standard	: ANSI C63.10: 2013
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2025-02-13
Input voltage	: AC 120V, 60Hz
Operation mode	: A, B
Ambient temperature	: 24.0 °C
Relative humidity	: 50.4 %
Atmospheric pressure	: 101 kPa

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

6 Photographs of the Test Set-Up

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

7 List of Tables

Table 1: List of Test and Measurement Equipment.....	5
Table 2: Measurement Uncertainty	7
Table 3: Technical Specification of EUT	8
Table 4: RF Channel and Frequency of Bluetooth LE	9
Table 5: RF Channel and Frequency of 2.4GHz Wi-Fi.....	9
Table 6: List of Accessories and Auxiliary Equipment.....	11
Table 7: Test Result of Maximum Conducted Output Power, Bluetooth LE	16
Table 8: Test Result of Maximum Conducted Output Power, 2.4GHz Wi-Fi.....	16

Appendix A: Test Results of Bluetooth LE

APPENDIX A: TEST RESULTS OF BLUETOOTH LE	1
APPENDIX A.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
Test Result	2
Test Graphs	3
APPENDIX A.2: TEST RESULTS OF 6dB BANDWIDTH	5
Test Result	5
Test Graphs	6
APPENDIX A.3: TEST RESULTS OF 99% BANDWIDTH	8
Test Result	8
Test Graphs	9
APPENDIX A.4: TEST RESULTS OF BAND EDGE MEASUREMENTS	11
Test Result	11
Test Graphs	12
APPENDIX A.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSION	14
Test Result	14
Test Graphs	15
APPENDIX A.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	21
30 MHz - 1GHz	21
1GHz - 18GHz	23
APPENDIX A.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	27
APPENDIX A.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	31

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

Test Result

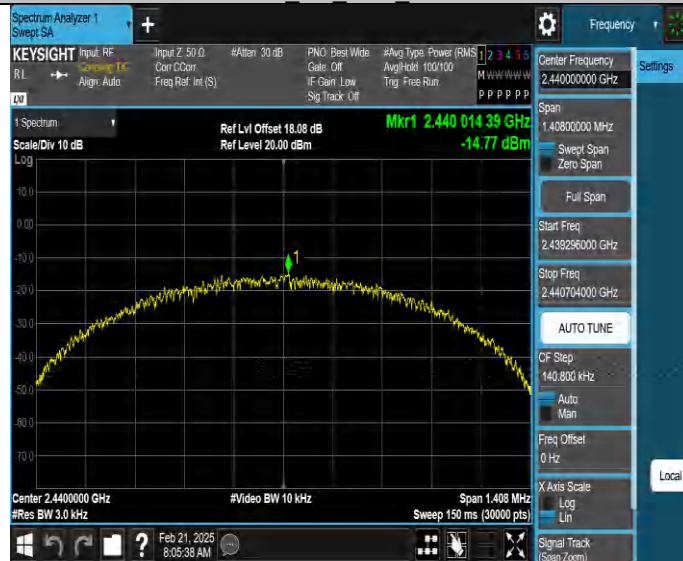
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-12.94	≤8.00	PASS
		2440	-14.77	≤8.00	PASS
		2480	-16.38	≤8.00	PASS
BLE_2M	Ant1	2402	-16.31	≤8.00	PASS
		2440	-18.08	≤8.00	PASS
		2480	-19.83	≤8.00	PASS

Test Graphs

BLE 1M Ant1 2402

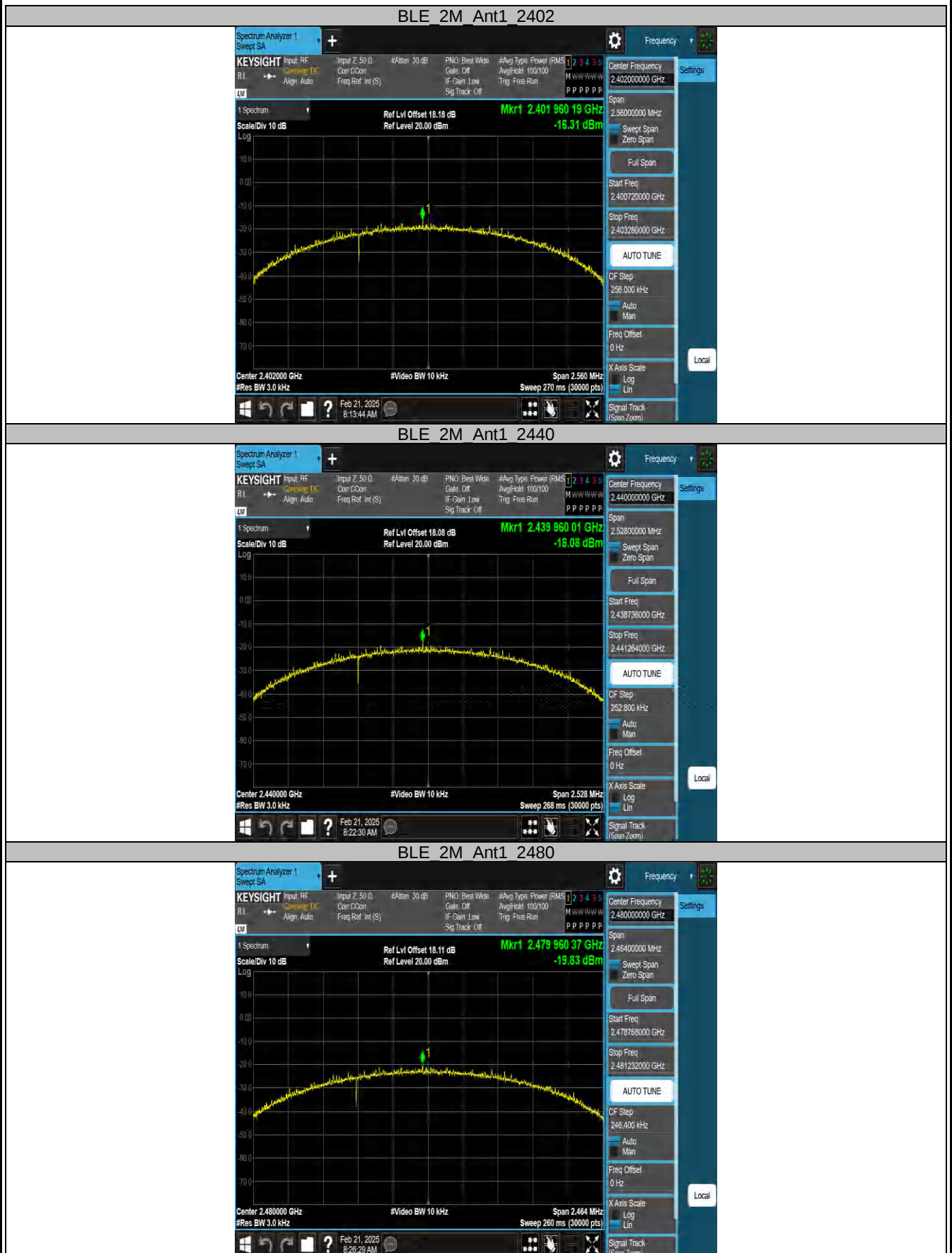


BLE 1M Ant1 2440



BLE 1M Ant1 2480





Appendix A.2: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.644	2402.344	0.5	PASS
		2440	0.704	2439.640	2440.344	0.5	PASS
		2480	0.724	2479.624	2480.348	0.5	PASS
BLE_2M	Ant1	2402	1.280	2401.328	2402.608	0.5	PASS
		2440	1.264	2439.332	2440.596	0.5	PASS
		2480	1.232	2479.352	2480.584	0.5	PASS

Prüfbericht - Produkte

Test Report - Products

Test Graphs

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.3: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0400	2401.4768	2402.5168	---	PASS
		2440	1.0554	2439.4704	2440.5258	---	PASS
		2480	1.0732	2479.4575	2480.5307	---	PASS
BLE_2M	Ant1	2402	2.1310	2400.9305	2403.0615	---	PASS
		2440	2.1511	2438.9300	2441.0811	---	PASS
		2480	2.1494	2478.9214	2481.0708	---	PASS

Test Graphs

BLE 1M Ant1 2402



BLE 1M Ant1 2440



BLE 1M Ant1 2480



BLE 2M Ant1 2402



BLE 2M Ant1 2440



BLE 2M Ant1 2480



Appendix A.4: Test Results of Band Edge Measurements

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	3.20	-45.87	≤-16.80	PASS
		High	2480	-1.47	-46.15	≤-21.47	PASS
BLE_2M	Ant1	Low	2402	0.20	-30.99	≤-19.80	PASS
		High	2480	-3.25	-45.22	≤-23.25	PASS

Test Graphs

BLE 1M Ant1 Low 2402



BLE 1M Ant1 High 2480



BLE 2M Ant1 Low 2402





Appendix A.5: Test Results of Conducted Spurious Emission

Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.07	3.07	---	PASS
			30~1000	3.07	-41.51	≤-16.93	PASS
			1000~26500	3.07	-31.78	≤-16.93	PASS
		2440	Reference	0.63	0.63	---	PASS
			30~1000	0.63	-41.25	≤-19.37	PASS
			1000~26500	0.63	-32.98	≤-19.37	PASS
		2480	Reference	-1.26	-1.26	---	PASS
			30~1000	-1.26	-40.98	≤-21.26	PASS
			1000~26500	-1.26	-32.27	≤-21.26	PASS
BLE_2M	Ant1	2402	Reference	2.12	2.12	---	PASS
			30~1000	2.12	-41.37	≤-17.88	PASS
			1000~26500	2.12	-32.11	≤-17.88	PASS
		2440	Reference	-0.11	-0.11	---	PASS
			30~1000	-0.11	-41.51	≤-20.11	PASS
			1000~26500	-0.11	-31.93	≤-20.11	PASS
		2480	Reference	-2.18	-2.18	---	PASS
			30~1000	-2.18	-41.52	≤-22.18	PASS
			1000~26500	-2.18	-33.03	≤-22.18	PASS

Test Graphs

BLE 1M Ant1 2402 0-Reference



BLE 1M Ant1 2402 30-1000



BLE 1M Ant1 2402 1000-26500



BLE 1M Ant1 2440 0-Reference



BLE 1M Ant1 2440 30-1000



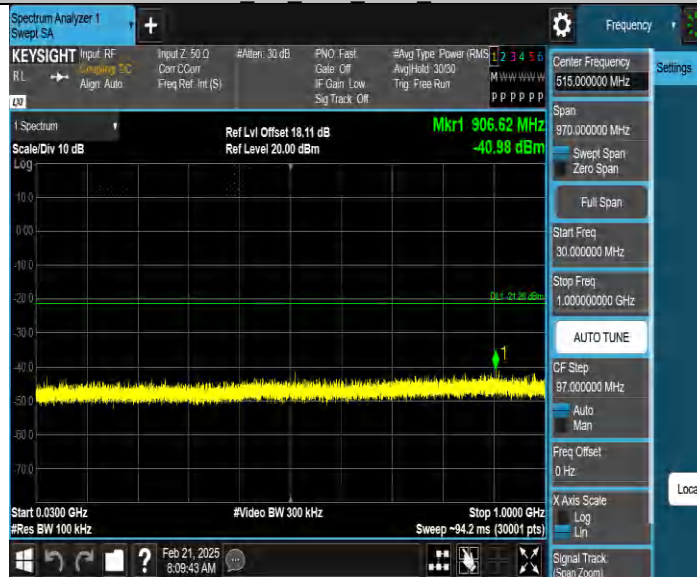
BLE 1M Ant1 2440 1000-26500



BLE 1M Ant1 2480 0-Reference



BLE 1M Ant1 2480 30-1000



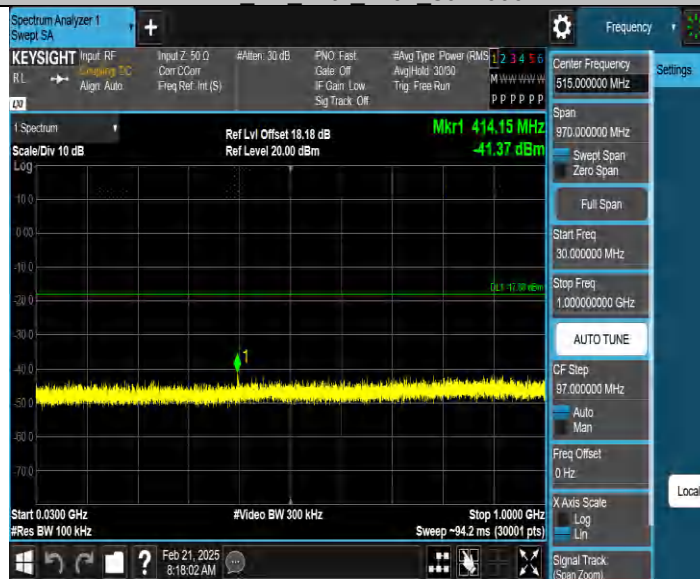
BLE 1M Ant1 2480 1000-26500



BLE 2M Ant1 2402 0-Reference



BLE 2M Ant1 2402 30-1000



BLE 2M Ant1 2402 1000-26500



BLE 2M Ant1 2440 0-Reference



BLE 2M Ant1 2440 30-1000



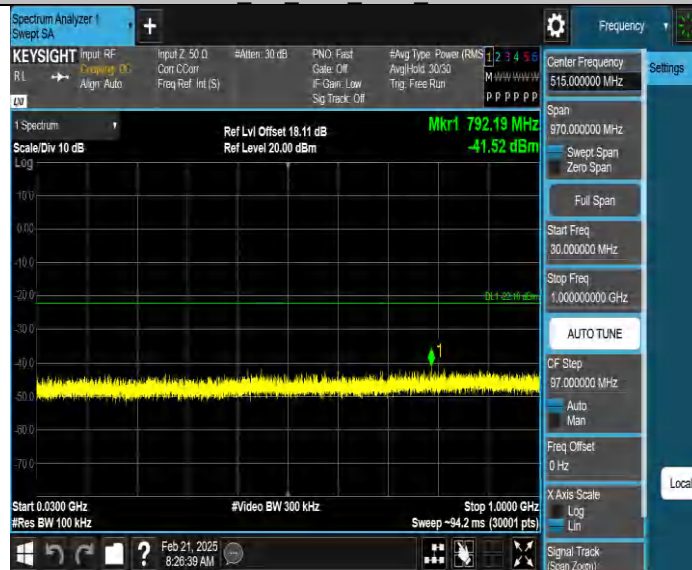
BLE 2M Ant1 2440 1000-26500



BLE 2M Ant1 2480 0-Reference



BLE 2M Ant1 2480 30-1000



BLE 2M Ant1 2480 1000-26500



Appendix A.6: Test Results of Radiated Spurious Emissions

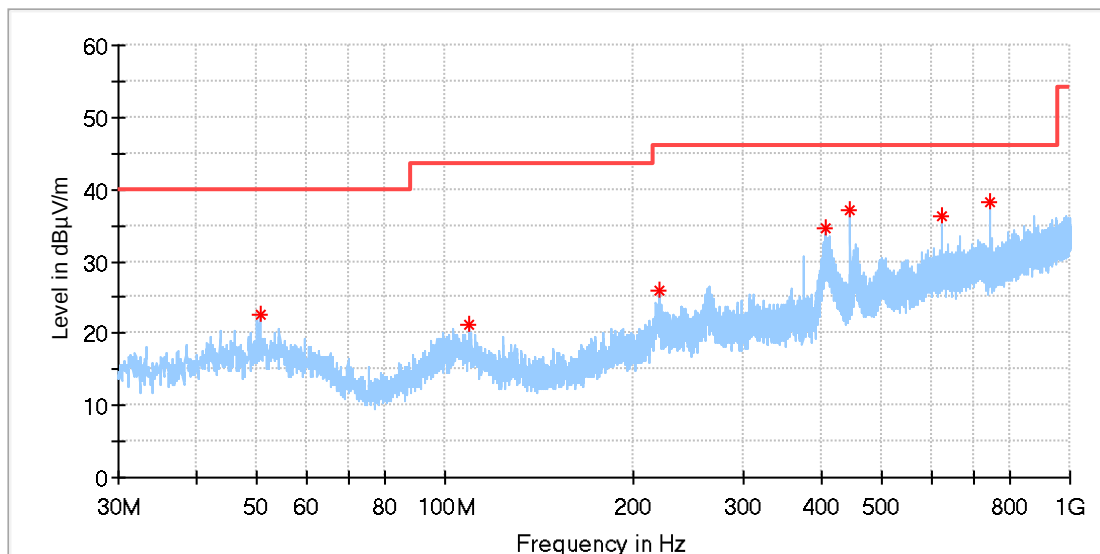
Note:

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

30 MHz - 1GHz

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

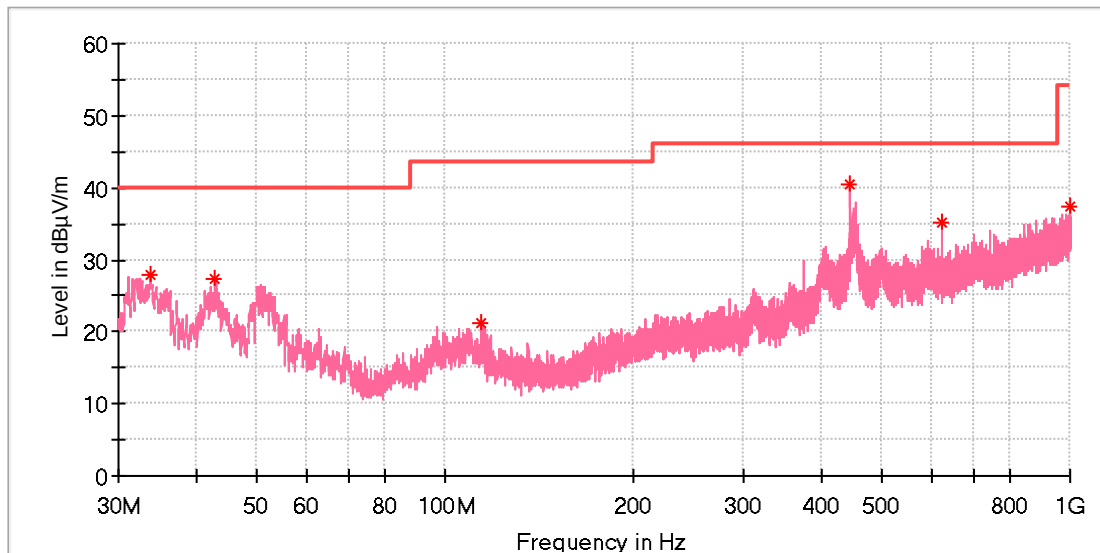
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
50.519231	22.70	40.00	17.30	100.0	H	97.0	-18.4
108.980385	21.21	43.50	22.29	100.0	H	97.0	-19.1
220.381154	25.84	46.00	20.16	100.0	H	73.0	-18.6
406.509231	34.58	46.00	11.42	100.0	H	135.0	-13.6
445.495769	37.11	46.00	8.89	100.0	H	26.0	-12.9
625.020385	36.27	46.00	9.73	100.0	H	281.0	-9.2
742.502308	38.24	46.00	7.76	100.0	H	337.0	-7.2

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.768077	27.84	40.00	12.16	100.0	V	197.0	-22.4
42.908462	27.36	40.00	12.64	100.0	V	32.0	-19.4
114.390000	21.19	43.50	22.31	100.0	V	150.0	-19.8
445.495769	40.39	46.00	5.61	100.0	V	172.0	-12.9
625.020385	35.02	46.00	10.98	100.0	V	320.0	-9.2
999.104615	37.27	54.00	16.73	100.0	V	297.0	-3.5

Final_Result

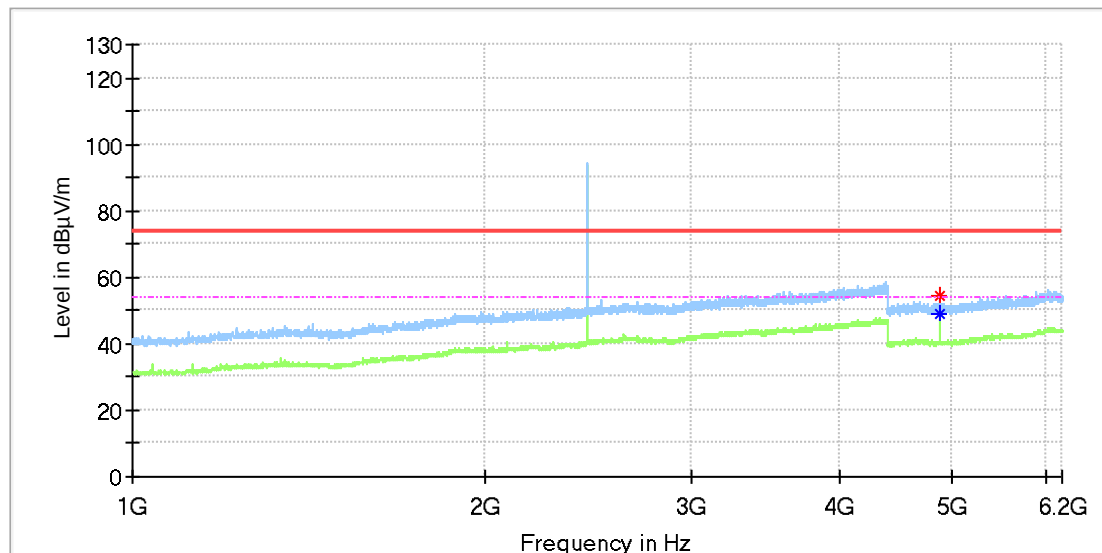
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

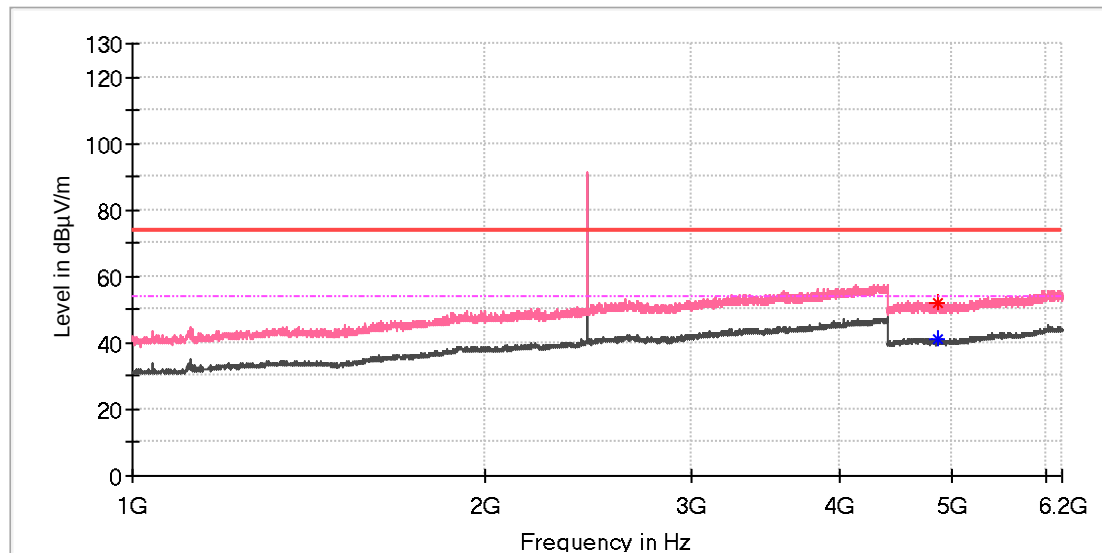
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.500000	54.54	---	74.00	19.46	150.0	H	347.0	13.3
4880.000000	---	49.04	54.00	4.96	150.0	H	347.0	13.3

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

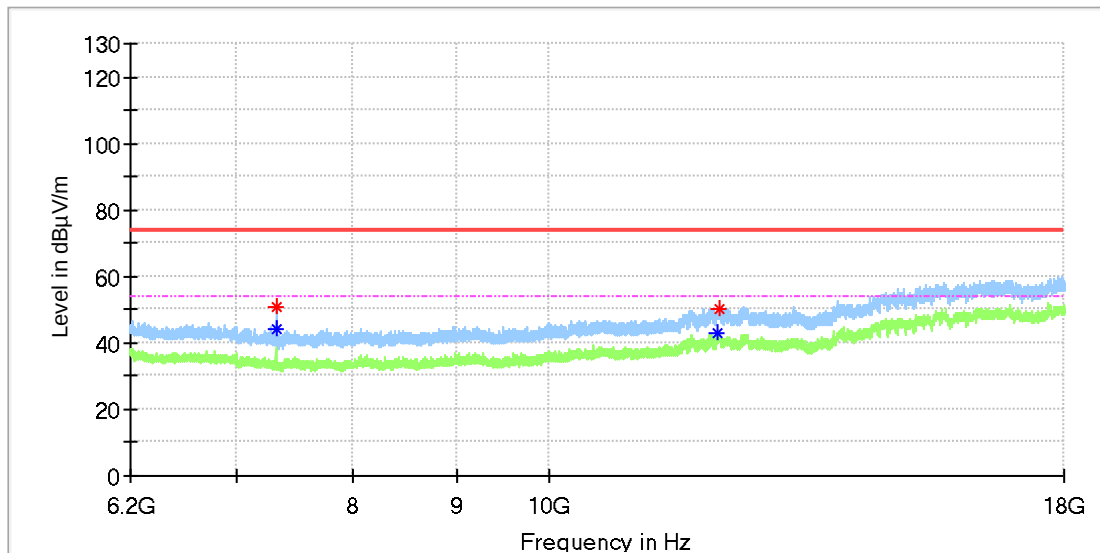
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4860.500000	---	40.92	54.00	13.08	150.0	V	233.0	13.3
4863.500000	51.74	---	74.00	22.26	150.0	V	312.0	13.3

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

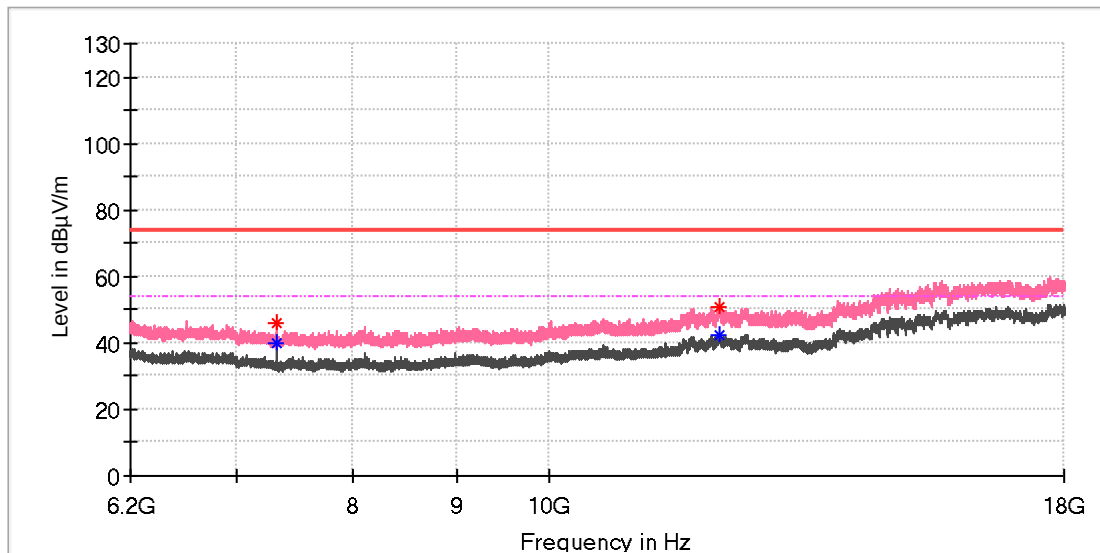
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.508333	50.54	---	74.00	23.46	150.0	H	308.0	8.2
7321.000000	---	44.43	54.00	9.57	150.0	H	308.0	8.2
12130.975000	---	42.63	54.00	11.37	150.0	H	26.0	16.2
12149.658333	50.31	---	74.00	23.69	150.0	H	82.0	16.7

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 1M_Mid channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7320.016667	---	40.06	54.00	13.94	150.0	V	0.0	8.2
7320.508333	45.78	---	74.00	28.22	150.0	V	0.0	8.2
12147.200000	---	42.62	54.00	11.38	150.0	V	55.0	16.7
12157.033333	50.83	---	74.00	23.17	150.0	V	334.0	16.4

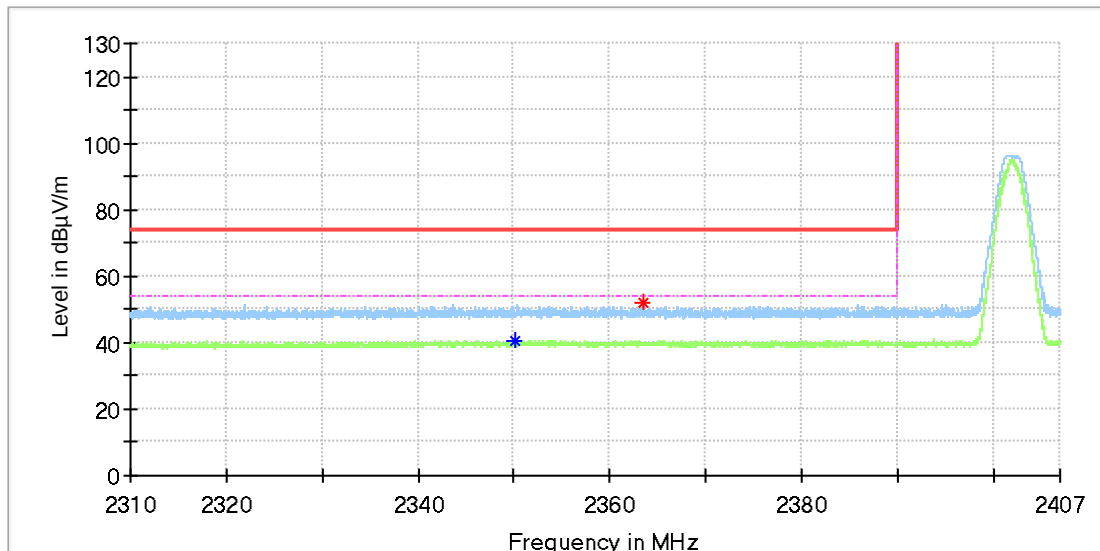
Final_Result

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

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

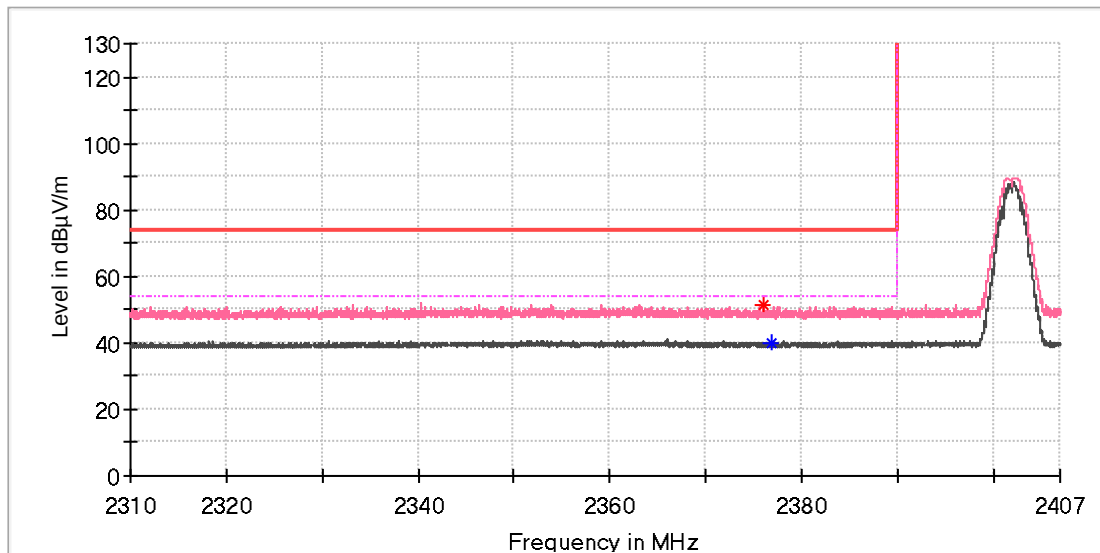
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2350.147059	---	40.50	54.00	13.50	150.0	H	92.0	8.5
2363.470588	51.98	---	74.00	22.02	150.0	H	262.0	8.5

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 2M_Low channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

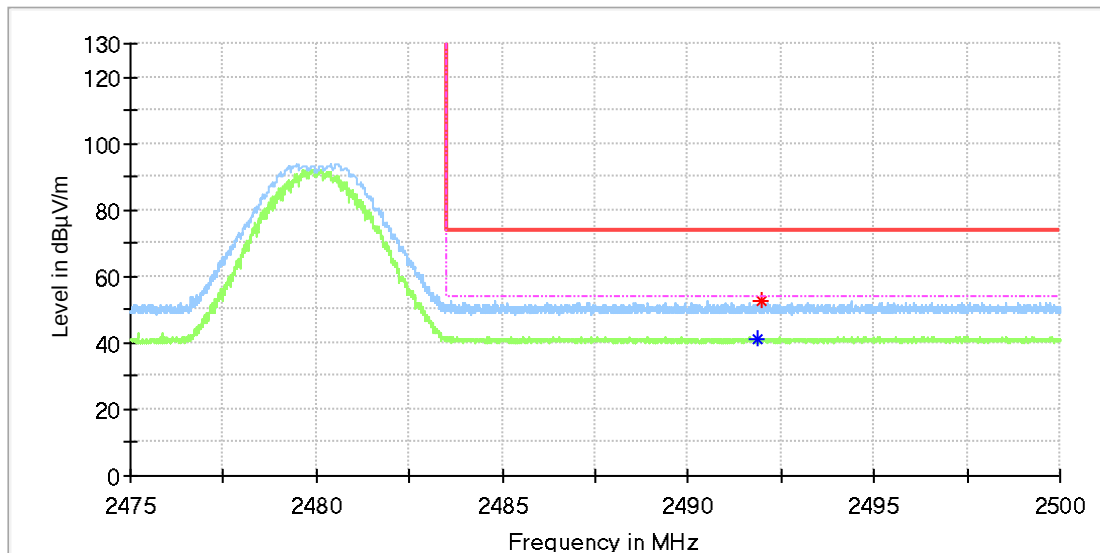
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.970588	51.30	---	74.00	22.70	150.0	V	358.0	8.5
2376.823529	---	40.14	54.00	13.86	150.0	V	331.0	8.5

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

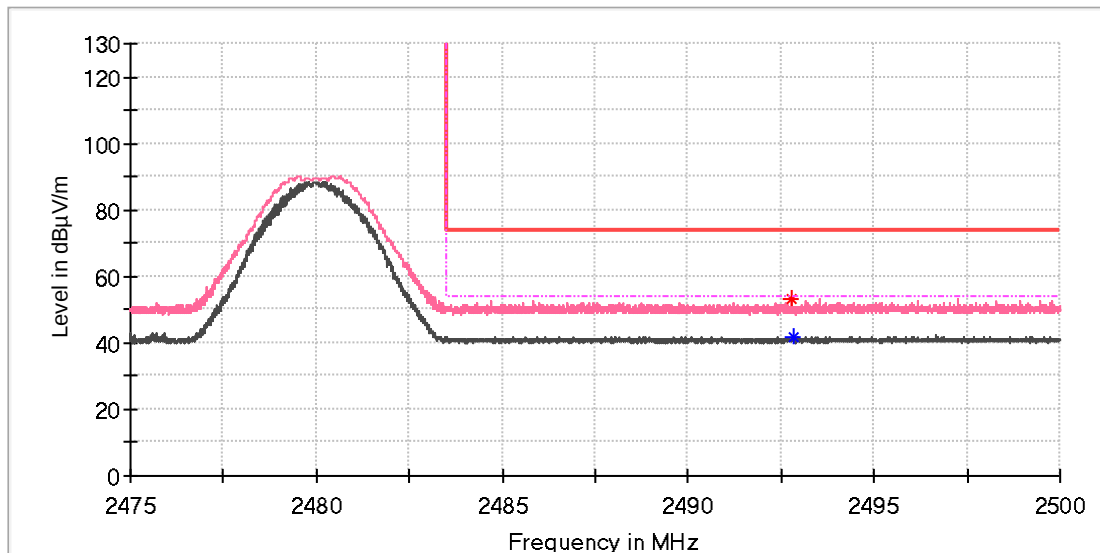
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2491.878677	---	41.29	54.00	12.71	150.0	H	205.0	9.0
2491.974265	52.90	---	74.00	21.10	150.0	H	71.0	9.0

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	BLE 2M_High channel
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2492.794118	53.43	---	74.00	20.57	150.0	V	108.0	9.0
2492.834559	---	41.56	54.00	12.44	150.0	V	300.0	9.0

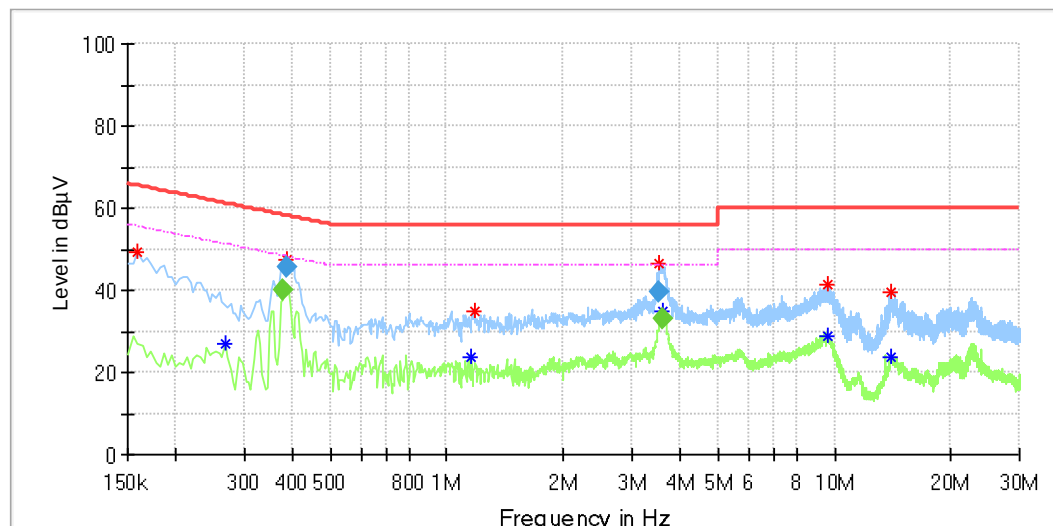
Final Result

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

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

EUT Information

EUT Name:	POS Terminal
Order Number:	168531160 60
Model:	C20DS
Test Mode:	BT Link
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Dawn Shen/ Shower Dai
Tem./Hum./Pressure:	24.0°C/50.4%/101kPa
Remark:	SR3



Critical Freqs

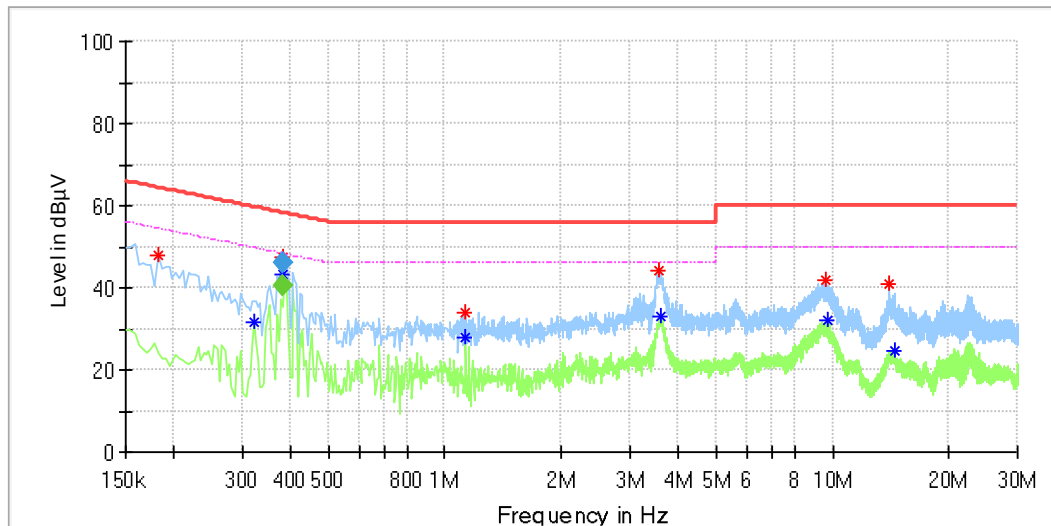
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.159000	49.43	---	65.52	16.08	L1	9.8
0.267000	---	27.16	51.21	24.05	L1	9.8
0.379500	---	40.44	48.19	7.75	L1	9.9
0.388000	47.36	---	58.10	10.73	L1	9.9
1.158000	---	23.63	46.00	22.37	L1	10.0
1.180500	34.83	---	56.00	21.17	L1	10.0
3.525000	46.56	---	56.00	9.44	L1	10.1
3.614500	---	35.03	46.00	10.97	L1	10.1
9.582000	41.57	---	60.00	18.43	L1	10.2
9.586500	---	28.95	50.00	21.05	L1	10.2
14.014500	---	23.85	50.00	26.15	L1	10.2
14.014500	39.70	---	60.00	20.30	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.379500	---	39.97	48.29	8.32	1000.0	9.000	L1	9.9
0.388000	45.79	---	58.11	12.32	1000.0	9.000	L1	9.9
3.525000	39.54	---	56.00	16.46	1000.0	9.000	L1	10.1
3.614500	---	32.84	46.00	13.16	1000.0	9.000	L1	10.1

EUT Information

EUT Name: POS Terminal
Order Number: 168531160 60
Model: C20DS
Test Mode: BT Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By./Review By: Dawn Shen/ Shower Dai
Tem./Hum./Pressure: 24.0°C/50.4%/101kPa
Remark: SR3



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.182000	47.71	---	64.39	16.69	N	9.7
0.322000	---	31.50	49.66	18.16	N	9.7
0.381500	47.54	---	58.15	10.61	N	9.7
0.381500	---	43.27	48.15	4.88	N	9.7
1.130000	---	27.98	46.00	18.02	N	9.8
1.130000	34.14	---	56.00	21.86	N	9.8
3.578000	44.14	---	56.00	11.86	N	9.8
3.598000	---	33.09	46.00	12.91	N	9.8
9.614000	41.81	---	60.00	18.19	N	9.9
9.658000	---	32.28	50.00	17.72	N	9.9
13.914000	41.09	---	60.00	18.91	N	9.9
14.394000	---	24.86	50.00	25.14	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.381500	---	40.67	48.25	7.58	1000.0	9.000	N	9.7
0.381500	46.12	---	58.25	12.13	1000.0	9.000	N	9.7

Appendix B: Test Results of 2.4GHz Wi-Fi

APPENDIX B: TEST RESULTS OF 2.4GHZ WI-FI	1
APPENDIX B.1: TEST RESULTS OF CONDUCTED POWER SPECTRAL DENSITY	2
Test Result	2
Test Graphs	3
APPENDIX B.2: TEST RESULTS OF 6DB BANDWIDTH	9
Test Result	9
Test Graphs	10
APPENDIX B.3: TEST RESULTS OF 99% BANDWIDTH	16
Test Result	16
Test Graphs	17
APPENDIX B.4: TEST RESULTS OF BAND EDGE MEASUREMENTS	23
Test Result	23
Test Graphs	24
APPENDIX B.5: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS	27
Test Result	27
Test Graphs	28
APPENDIX B.6: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	40
30MHz - 1GHz	40
1GHz - 18GHz	42
APPENDIX B.7: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	46
APPENDIX B.8: TEST RESULTS OF CONDUCTED EMISSION ON AC MAINS	54

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

Test Result

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-10.18	≤8.00	PASS
		2437	-10.26	≤8.00	PASS
		2462	-12.12	≤8.00	PASS
11G	Ant1	2412	-12.12	≤8.00	PASS
		2437	-13.45	≤8.00	PASS
		2462	-12.11	≤8.00	PASS
11N20SISO	Ant1	2412	-10.94	≤8.00	PASS
		2437	-13.03	≤8.00	PASS
		2462	-12.37	≤8.00	PASS
11N40SISO	Ant1	2422	-13.86	≤8.00	PASS
		2437	-15.35	≤8.00	PASS
		2452	-16.09	≤8.00	PASS
11AX20SISO	Ant1	2412	-13.28	≤8.00	PASS
		2437	-15.73	≤8.00	PASS
		2462	-14.62	≤8.00	PASS
11AX40SISO	Ant1	2422	-16.60	≤8.00	PASS
		2437	-17.16	≤8.00	PASS
		2452	-17.13	≤8.00	PASS

11B_Ant1_2412



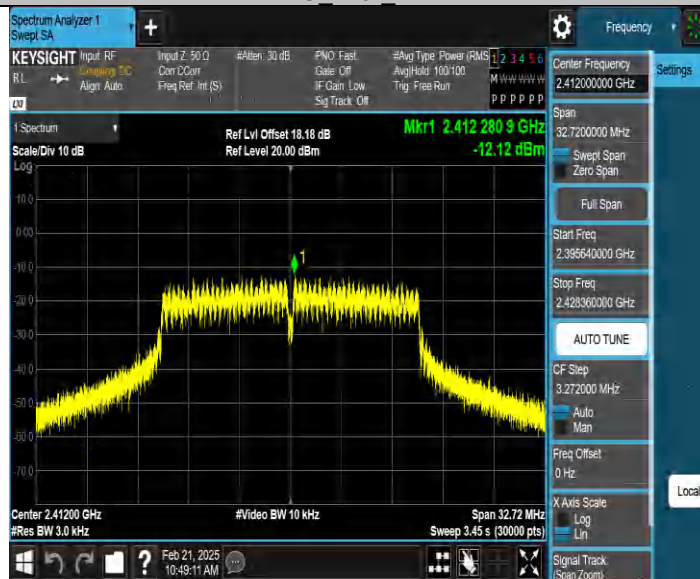
11B Ant1 2437



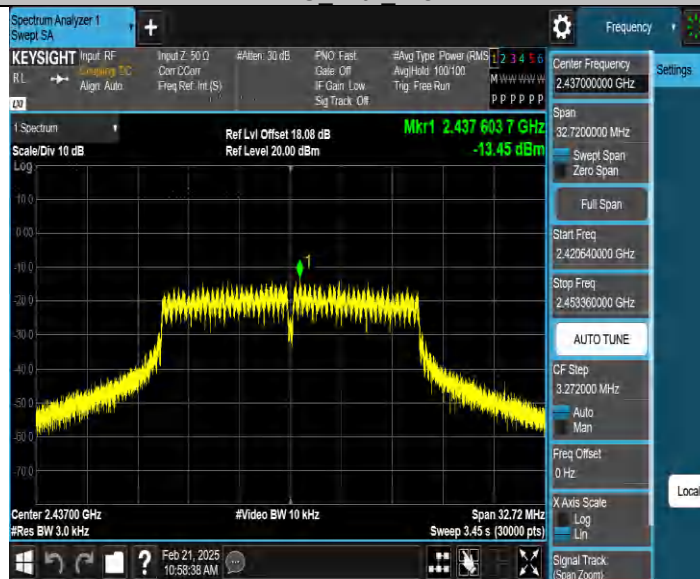
11B Ant1 2462



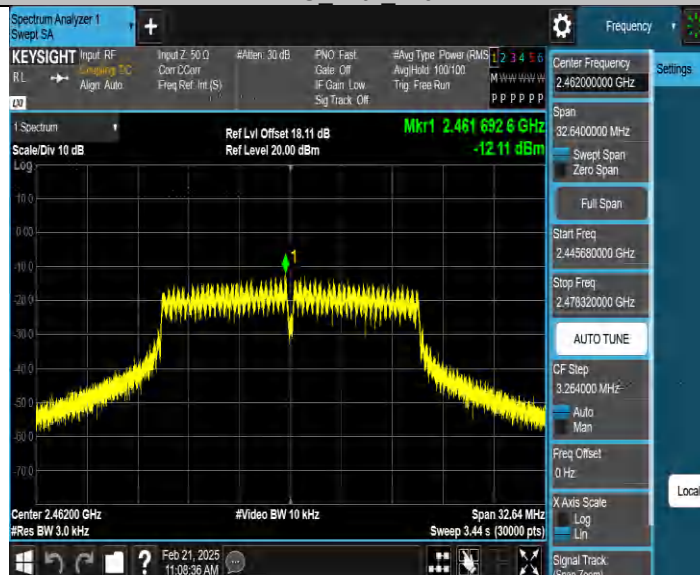
11G_Ant1_2412



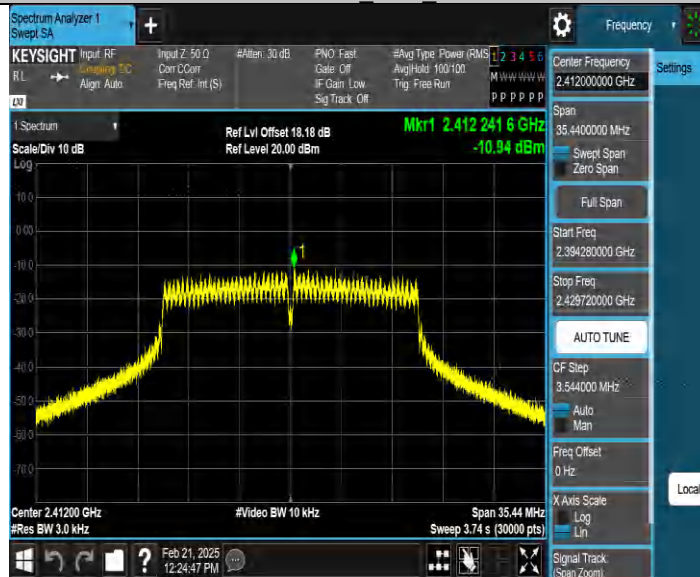
11G_Ant1_2437



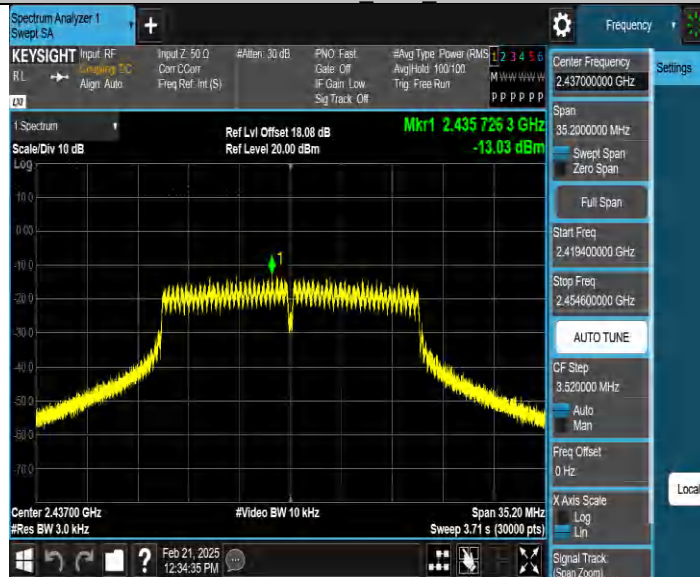
11G_Ant1_2462



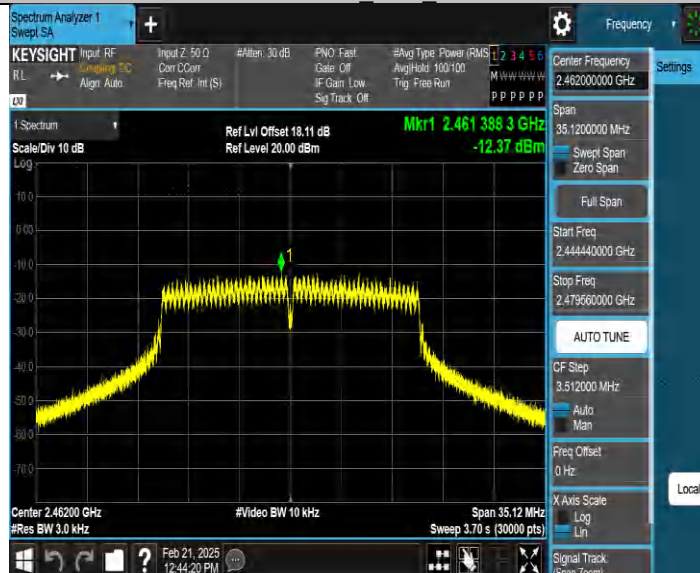
11N20SISO Ant1 2412



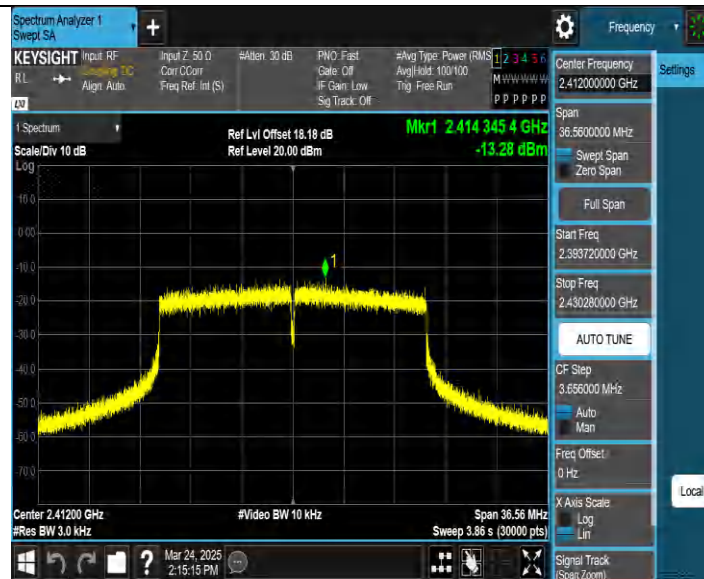
11N20SISO Ant1 2437



11N20SISO Ant1 2462







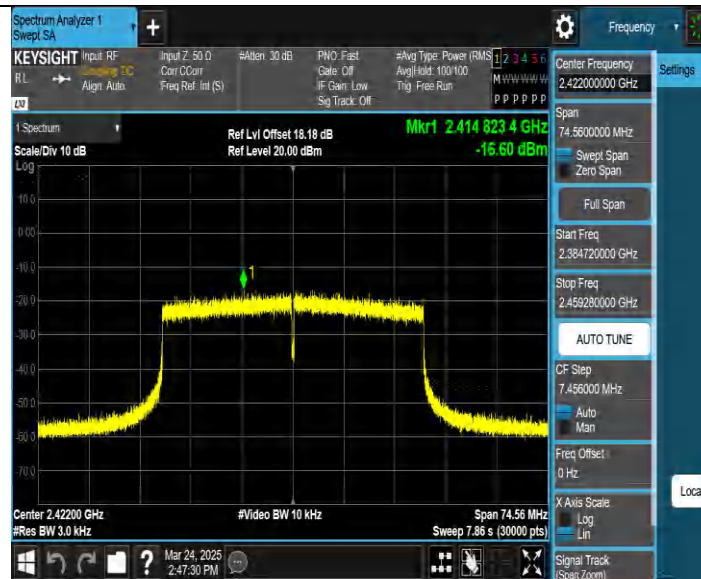
11AX20SISO Ant1 2437



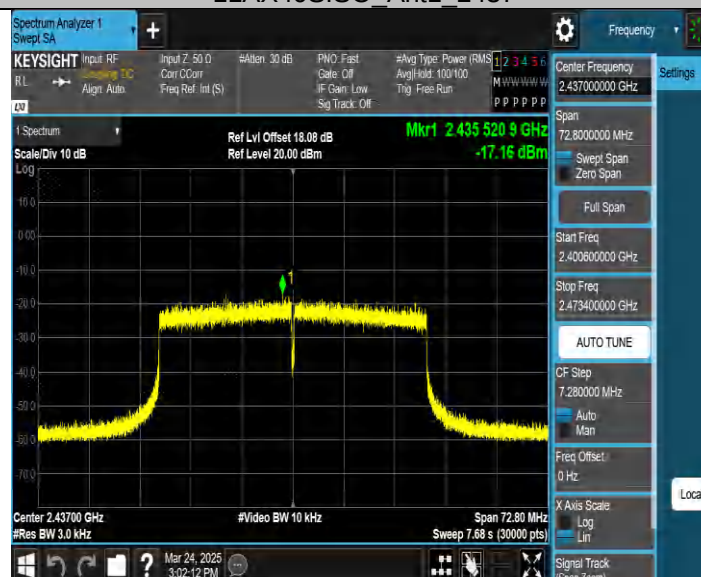
11AX20SISO Ant1 2462



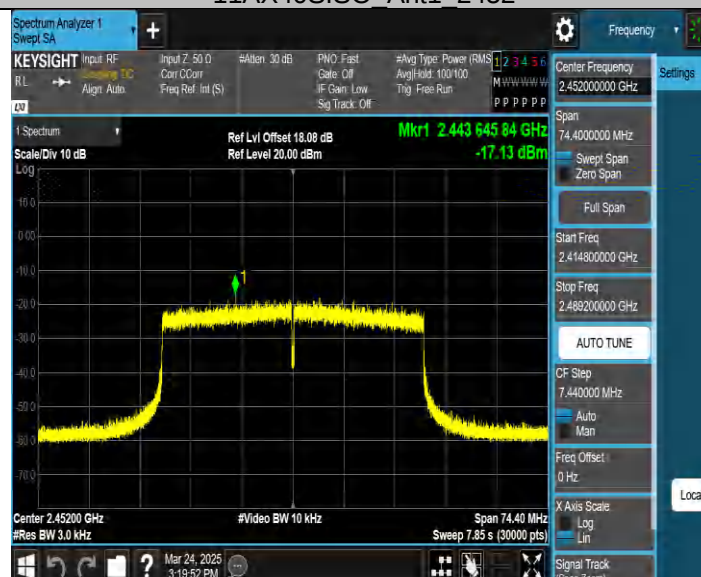
11AX40SISO Ant1 2422



11AX40SISO Ant1 2437



11AX40SISO Ant1 2452



Appendix B.2: Test Results of 6dB Bandwidth

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.600	2408.440	2416.040	0.5	PASS
		2437	8.520	2432.480	2441.000	0.5	PASS
		2462	8.520	2458.000	2466.520	0.5	PASS
11G	Ant1	2412	16.360	2403.800	2420.160	0.5	PASS
		2437	16.360	2428.800	2445.160	0.5	PASS
		2462	16.320	2453.840	2470.160	0.5	PASS
11N20SISO	Ant1	2412	17.720	2403.120	2420.840	0.5	PASS
		2437	17.600	2428.200	2445.800	0.5	PASS
		2462	17.560	2453.200	2470.760	0.5	PASS
11N40SISO	Ant1	2422	36.320	2403.840	2440.160	0.5	PASS
		2437	34.400	2419.240	2453.640	0.5	PASS
		2452	36.320	2433.840	2470.160	0.5	PASS
11AX20SISO	Ant1	2412	18.280	2402.680	2420.960	0.5	PASS
		2437	18.680	2427.600	2446.280	0.5	PASS
		2462	18.720	2452.680	2471.400	0.5	PASS
11AX40SISO	Ant1	2422	37.280	2403.440	2440.720	0.5	PASS
		2437	36.400	2418.120	2454.520	0.5	PASS
		2452	37.200	2433.120	2470.320	0.5	PASS

Test Graphs

11B Ant1 2412



11B Ant1 2437



11B Ant1 2462



11G_Ant1_2412



11G_Ant1_2437



11G_Ant1_2462



11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



11N40SISO Ant1 2422



11N40SISO Ant1 2437



11N40SISO Ant1 2452



11AX20SISO Ant1 2412



11AX20SISO Ant1 2437



11AX20SISO Ant1 2462



11AX40SISO Ant1 2422



11AX40SISO Ant1 2437



11AX40SISO Ant1 2452



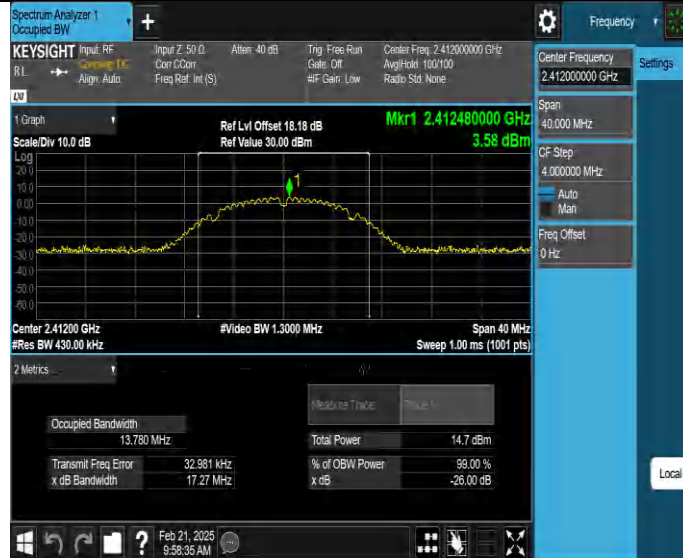
Appendix B.3: Test Results of 99% Bandwidth

Test Result

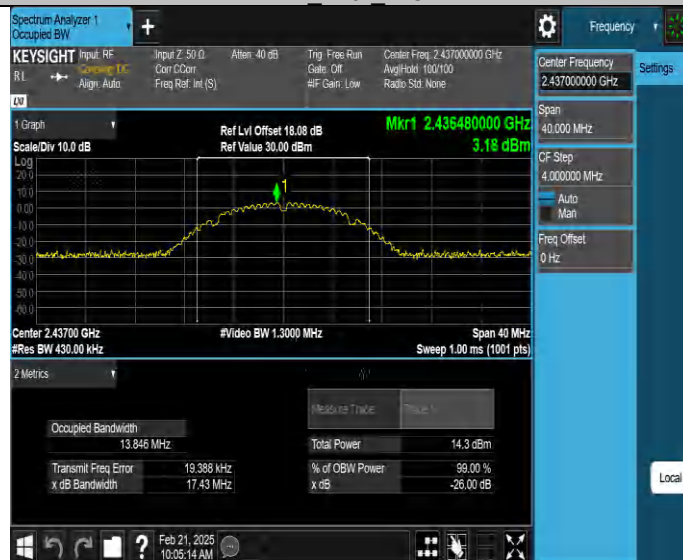
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.780	2405.1430	2418.9230	---	PASS
		2437	13.846	2430.0964	2443.9424	---	PASS
		2462	14.180	2454.9576	2469.1376	---	PASS
11G	Ant1	2412	17.197	2403.4502	2420.6472	---	PASS
		2437	17.244	2428.3236	2445.5676	---	PASS
		2462	17.119	2453.4038	2470.5228	---	PASS
11N20SISO	Ant1	2412	18.391	2402.8112	2421.2022	---	PASS
		2437	18.557	2427.7241	2446.2811	---	PASS
		2462	18.440	2452.7345	2471.1745	---	PASS
11N40SISO	Ant1	2422	36.764	2403.6433	2440.4073	---	PASS
		2437	36.828	2418.5290	2455.3570	---	PASS
		2452	36.869	2433.4934	2470.3624	---	PASS
11AX20SISO	Ant1	2412	19.108	2402.4467	2421.5547	---	PASS
		2437	19.165	2427.4168	2446.5818	---	PASS
		2462	19.264	2452.3176	2471.5816	---	PASS
11AX40SISO	Ant1	2422	38.053	2402.9633	2441.0163	---	PASS
		2437	37.991	2418.0195	2456.0105	---	PASS
		2452	38.100	2432.9344	2471.0344	---	PASS

Test Graphs

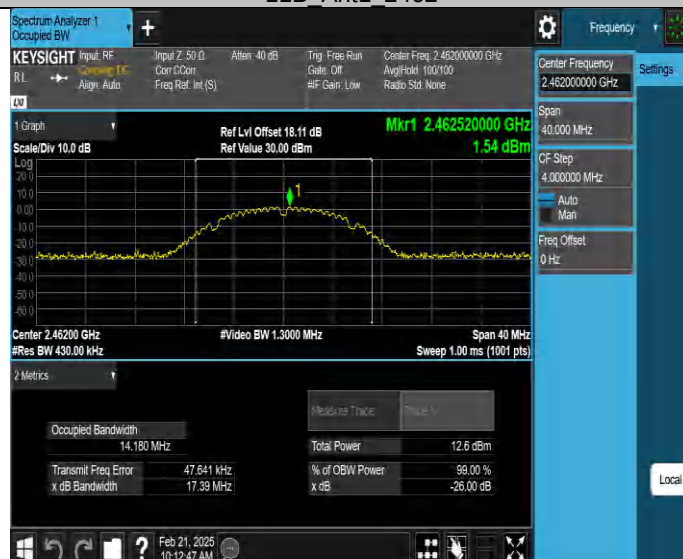
11B Ant1 2412



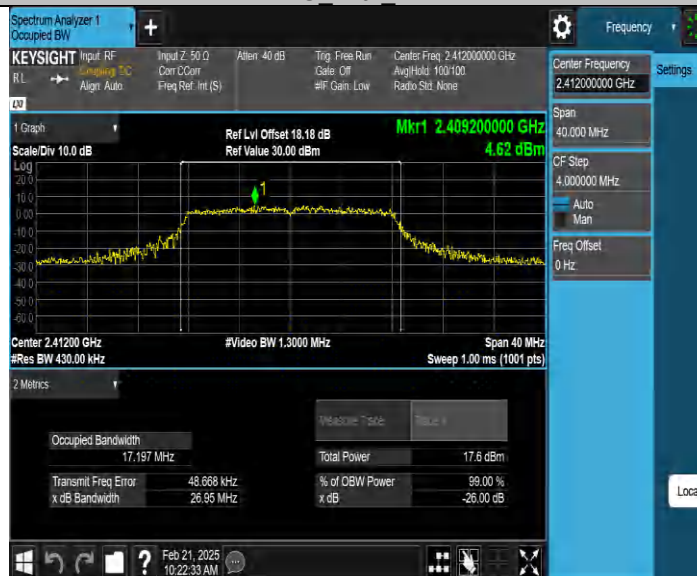
11B Ant1 2437



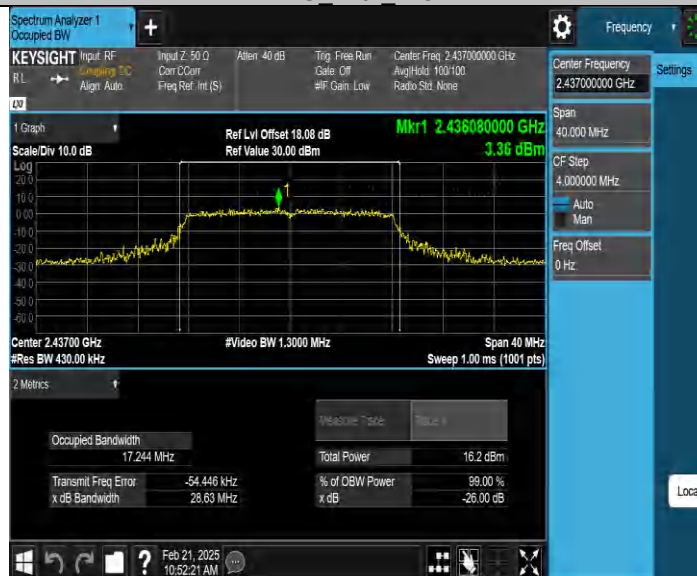
11B Ant1 2462



11G_Ant1_2412



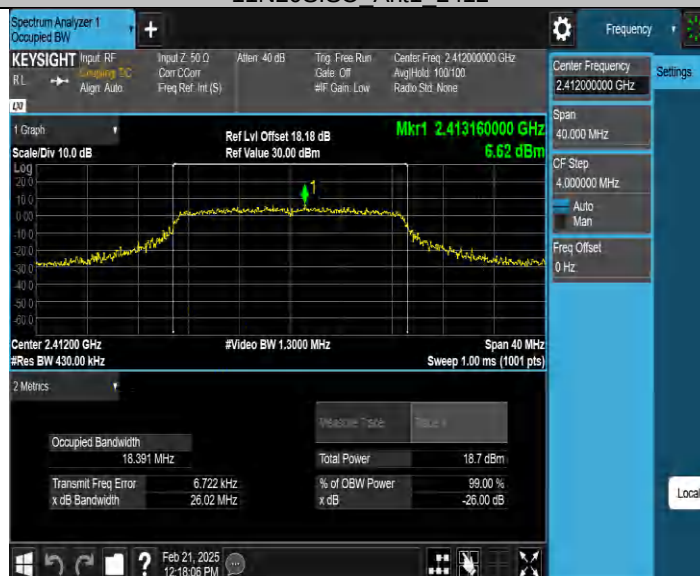
11G_Ant1_2437



11G_Ant1_2462



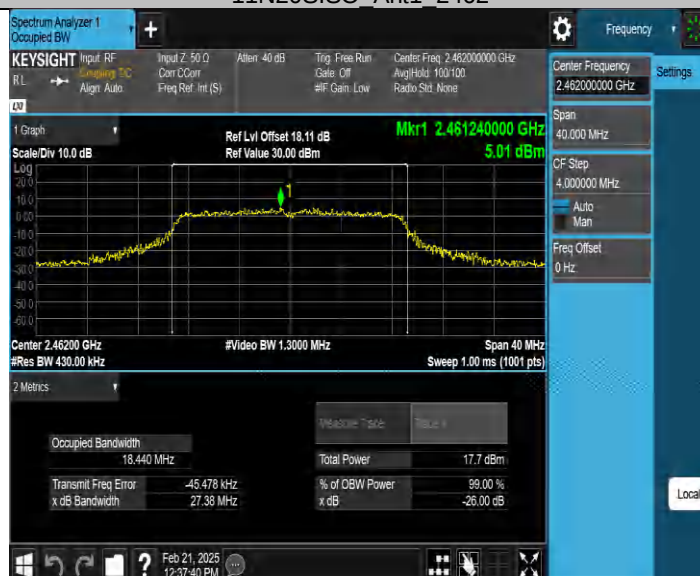
11N20SISO Ant1 2412



11N20SISO Ant1 2437



11N20SISO Ant1 2462



11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



11AX20SISO_Ant1_2412



11AX20SISO Ant1 2437



11AX20SISO Ant1 2462



11AX40SISO Ant1 2422



11AX40SISO Ant1 2437



11AX40SISO Ant1 2452



Appendix B.4: Test Results of Band Edge Measurements

Note:

1) This testing was carried out on different modulations, but only the worst case was presented in this report.

Test Result

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	2.75	-40.18	≤-17.25	PASS
		High	2462	1.31	-39.44	≤-18.69	PASS
11G	Ant1	Low	2412	-0.94	-29.46	≤-20.94	PASS
		High	2462	0.46	-40.05	≤-19.54	PASS
11N20SISO	Ant1	Low	2412	1.15	-27.55	≤-18.85	PASS
		High	2462	-1.35	-39.96	≤-21.35	PASS
11N40SISO	Ant1	Low	2422	-2.74	-32.11	≤-22.74	PASS
		High	2452	-2.25	-39.32	≤-22.25	PASS

Test Graphs

11B Ant1 Low 2412



11B Ant1 High 2462



11G Ant1 Low 2412



11G_Ant1_High_2462



11N20SISO_Ant1_Low_2412



11N20SISO_Ant1_High_2462



11N40SISO Ant1 Low 2422



11N40SISO Ant1 High 2452



Appendix B.5: Test Results of Conducted Spurious Emissions

Note:

1) This testing was carried out on different modulations, but only the worst case was presented in this report.

Test Result

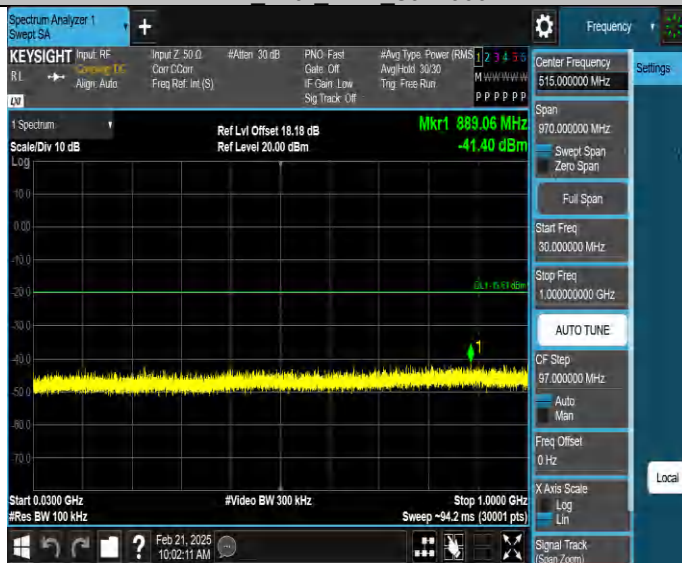
TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.39	0.39	---	PASS
			30~1000	0.39	-41.4	≤-19.61	PASS
			1000~26500	0.39	-32.8	≤-19.61	PASS
		2437	Reference	2.35	2.35	---	PASS
			30~1000	2.35	-41.33	≤-17.65	PASS
			1000~26500	2.35	-32.76	≤-17.65	PASS
		2462	Reference	-0.85	-0.85	---	PASS
			30~1000	-0.85	-41.16	≤-20.85	PASS
			1000~26500	-0.85	-32.44	≤-20.85	PASS
11G	Ant1	2412	Reference	2.11	2.11	---	PASS
			30~1000	2.11	-41.28	≤-17.89	PASS
			1000~26500	2.11	-32.63	≤-17.89	PASS
		2437	Reference	-0.66	-0.66	---	PASS
			30~1000	-0.66	-41.05	≤-20.66	PASS
			1000~26500	-0.66	-32.36	≤-20.66	PASS
		2462	Reference	-1.78	-1.78	---	PASS
			30~1000	-1.78	-41.53	≤-21.78	PASS
			1000~26500	-1.78	-32.2	≤-21.78	PASS
11N20SISO	Ant1	2412	Reference	-0.88	-0.88	---	PASS
			30~1000	-0.88	-41.51	≤-20.88	PASS
			1000~26500	-0.88	-32.41	≤-20.88	PASS
		2437	Reference	-1.56	-1.56	---	PASS
			30~1000	-1.56	-41.72	≤-21.56	PASS
			1000~26500	-1.56	-32.15	≤-21.56	PASS
		2462	Reference	-0.37	-0.37	---	PASS
			30~1000	-0.37	-41.31	≤-20.37	PASS
			1000~26500	-0.37	-33.05	≤-20.37	PASS
11N40SISO	Ant1	2422	Reference	-1.51	-1.51	---	PASS
			30~1000	-1.51	-41.17	≤-21.51	PASS
			1000~26500	-1.51	-32.55	≤-21.51	PASS
		2437	Reference	-4.06	-4.06	---	PASS
			30~1000	-4.06	-40.77	≤-24.06	PASS
			1000~26500	-4.06	-32.68	≤-24.06	PASS
		2452	Reference	-5.01	-5.01	---	PASS
			30~1000	-5.01	-40.99	≤-25.01	PASS
			1000~26500	-5.01	-32.64	≤-25.01	PASS

Test Graphs

11B Ant1 2412 0-Reference



11B Ant1 2412 30-1000



11B Ant1 2412 1000-26500



11B_Ant1_2437_0-Reference



11B_Ant1_2437_30-1000



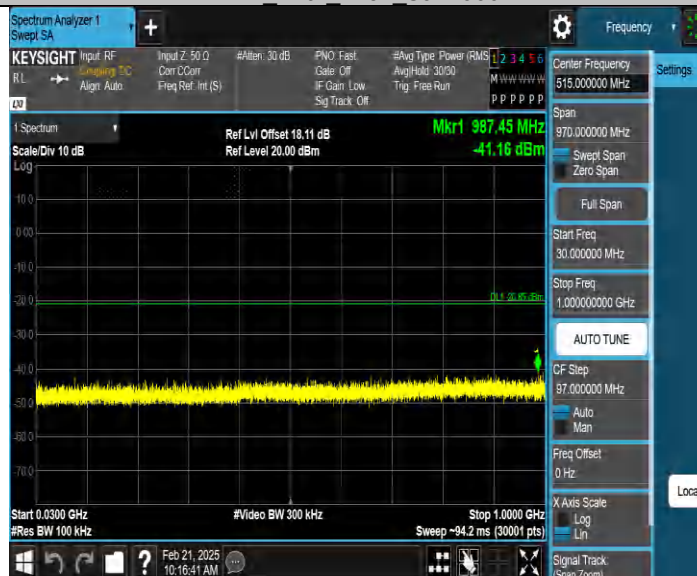
11B_Ant1_2437_1000-26500



11B_Ant1_2462_0-Reference



11B_Ant1_2462_30-1000



11B_Ant1_2462_1000-26500



11G Ant1 2412 0-Reference



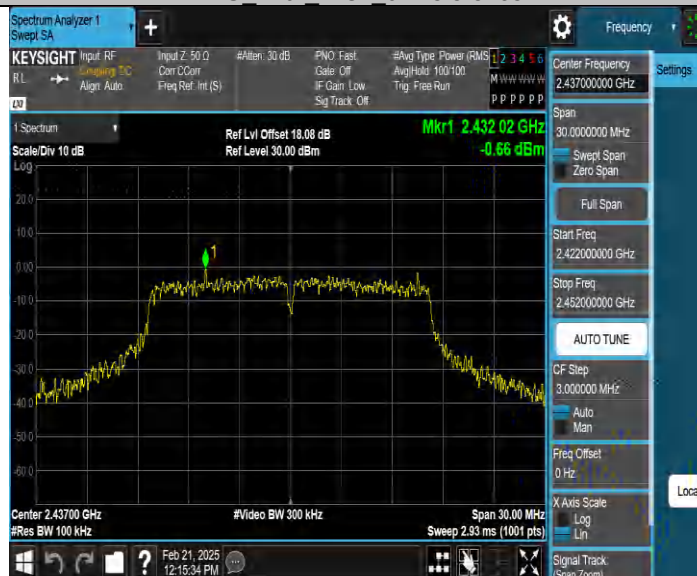
11G Ant1 2412 30-1000



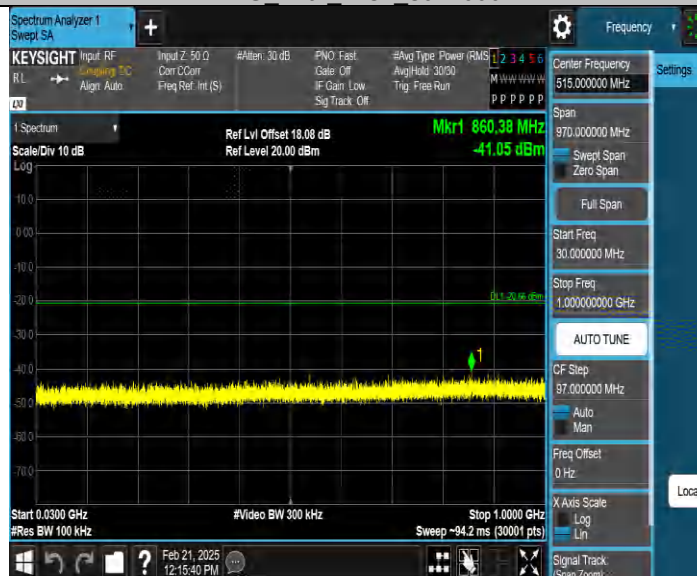
11G Ant1 2412 1000-26500



11G Ant1 2437 0-Reference



11G Ant1 2437 30-1000



11G Ant1 2437 1000-26500



11G Ant1 2462 0-Reference



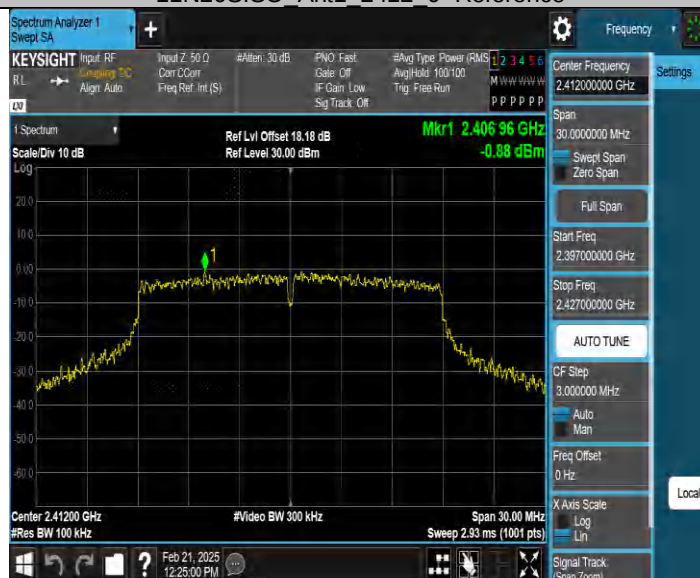
11G Ant1 2462 30-1000



11G Ant1 2462 1000-26500



11N20SISO Ant1 2412 0-Reference



11N20SISO Ant1 2412 30-1000



11N20SISO Ant1 2412 1000-26500



11N20SISO Ant1 2437 0-Reference



11N20SISO Ant1 2437 30-1000



11N20SISO Ant1 2437 1000-26500



11N20SISO Ant1 2462 0-Reference



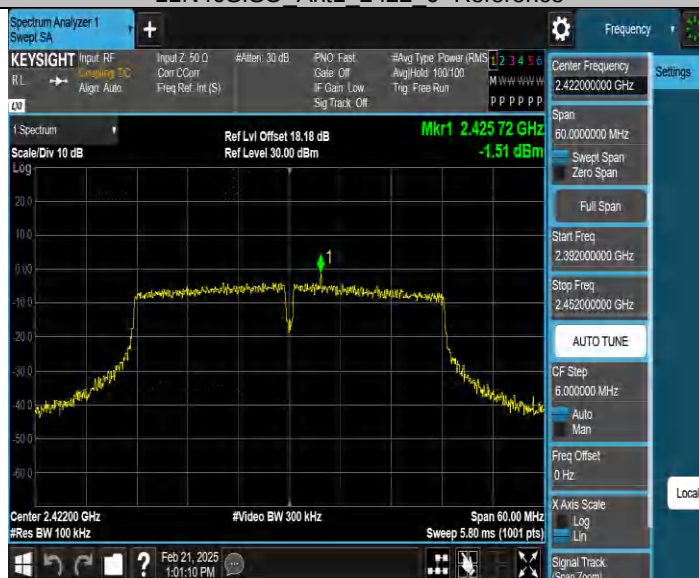
11N20SISO Ant1 2462 30-1000



11N20SISO Ant1 2462 1000-26500



11N40SISO Ant1 2422 0-Reference



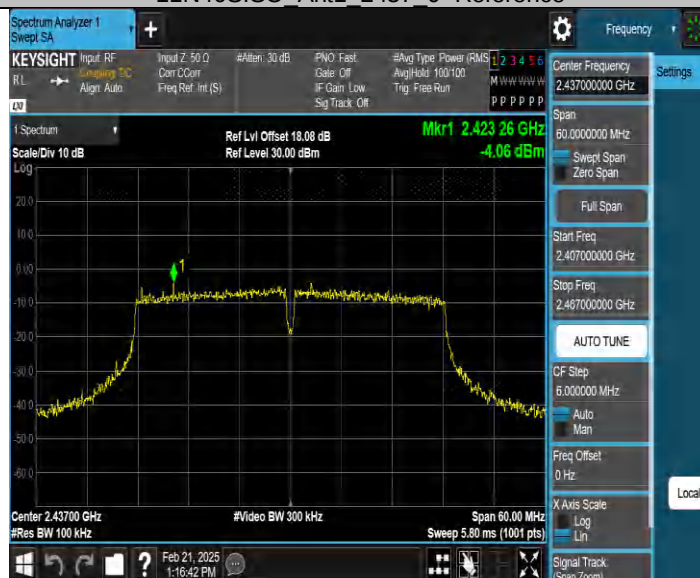
11N40SISO Ant1 2422 30-1000



11N40SISO Ant1 2422 1000-26500



11N40SISO Ant1 2437 0-Reference



11N40SISO Ant1 2437 30-1000



11N40SISO Ant1 2437 1000-26500



11N40SISO Ant1 2452 0-Reference



11N40SISO Ant1 2452 30-1000



11N40SISO Ant1 2452 1000-26500



Appendix B.6: Test Results of Radiated Spurious Emissions

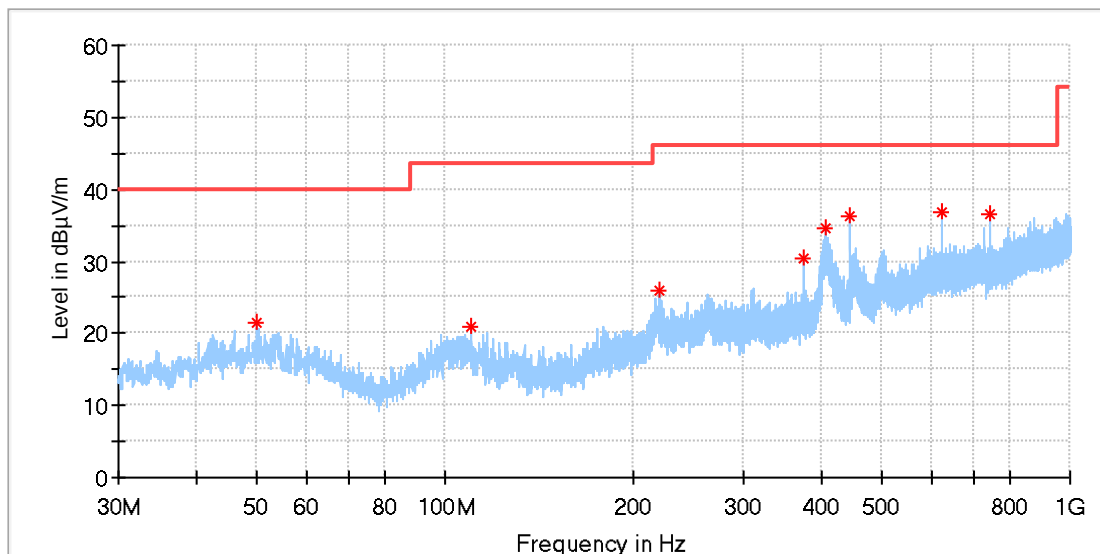
Note:

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

30MHz - 1GHz

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

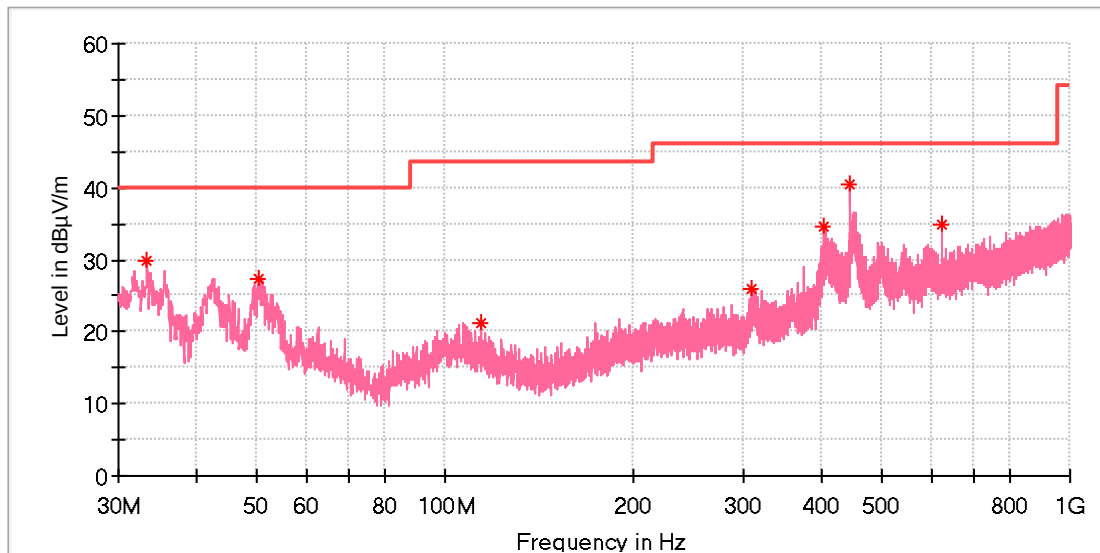
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.996923	21.52	40.00	18.48	100.0	H	218.0	-18.4
110.062308	21.00	43.50	22.50	100.0	H	327.0	-19.2
219.597692	25.85	46.00	20.15	100.0	H	106.0	-18.7
375.021539	30.44	46.00	15.56	100.0	H	137.0	-14.3
406.770385	34.47	46.00	11.53	100.0	H	137.0	-13.6
445.495769	36.36	46.00	9.64	100.0	H	24.0	-12.9
625.020385	36.70	46.00	9.30	100.0	H	284.0	-9.2
742.502308	36.59	46.00	9.41	100.0	H	0.0	-7.2

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
33.320385	29.86	40.00	10.14	100.0	V	198.0	-22.5
50.183462	27.23	40.00	12.77	100.0	V	215.0	-18.4
113.942308	21.34	43.50	22.16	100.0	V	231.0	-19.7
310.143462	25.99	46.00	20.01	100.0	V	190.0	-16.0
404.755769	34.74	46.00	11.26	100.0	V	117.0	-13.6
445.533077	40.35	46.00	5.65	100.0	V	323.0	-12.9
625.020385	34.85	46.00	11.15	100.0	V	306.0	-9.2

Final Result

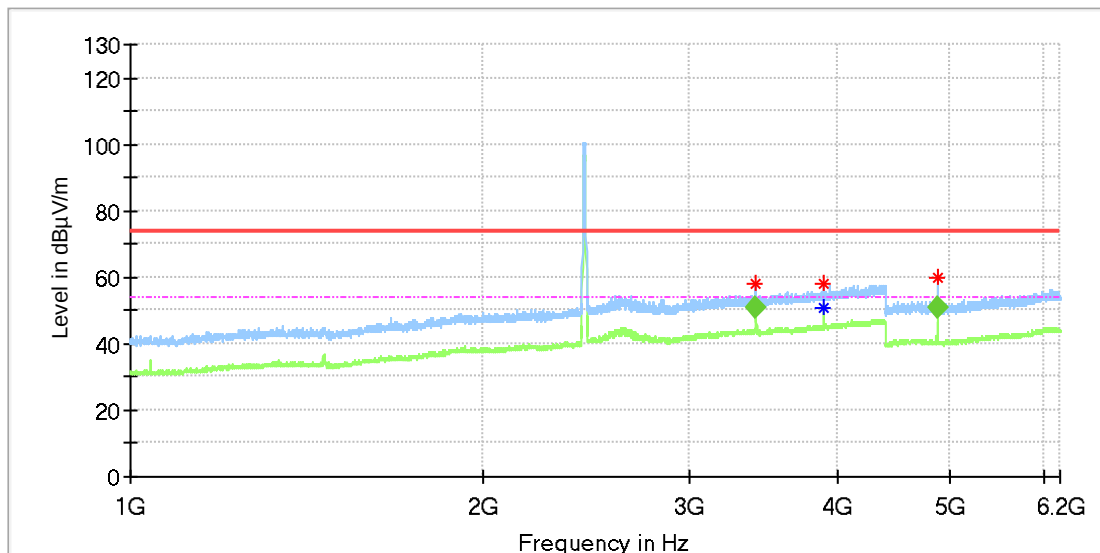
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

1GHz - 18GHz

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

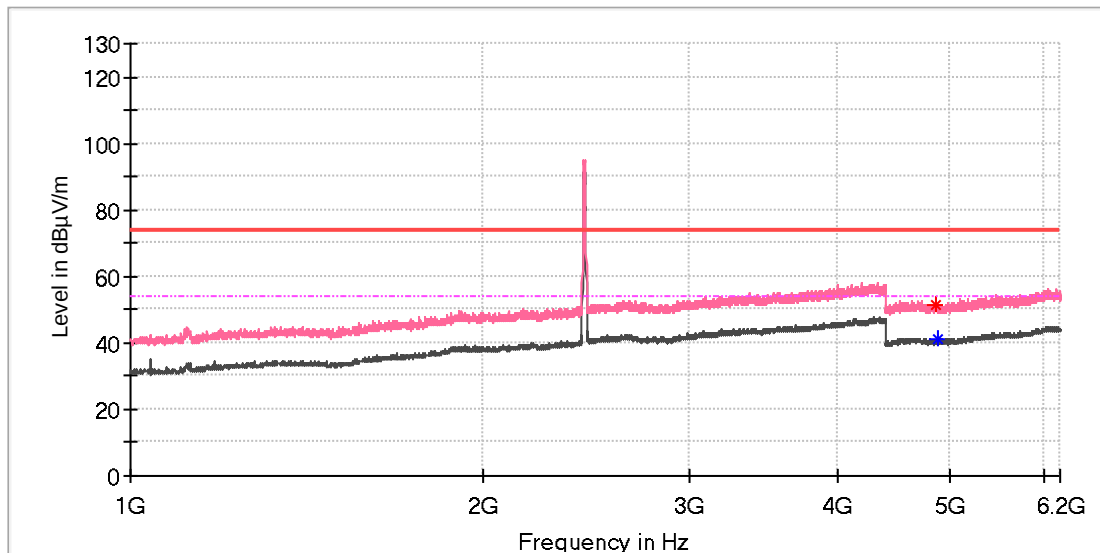
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3413.500000	58.30	---	74.00	15.70	150.0	H	3.0	11.2
3899.000000	---	50.88	54.00	3.12	150.0	H	0.0	12.7
3899.500000	58.20	---	74.00	15.80	150.0	H	7.0	12.7
4874.000000	60.04	---	74.00	13.96	150.0	H	347.0	13.3

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3410.860294	50.51	54.00	3.49	150.0	H	-2.0	11.2
4873.838889	50.79	54.00	3.21	149.0	H	342.0	13.3

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

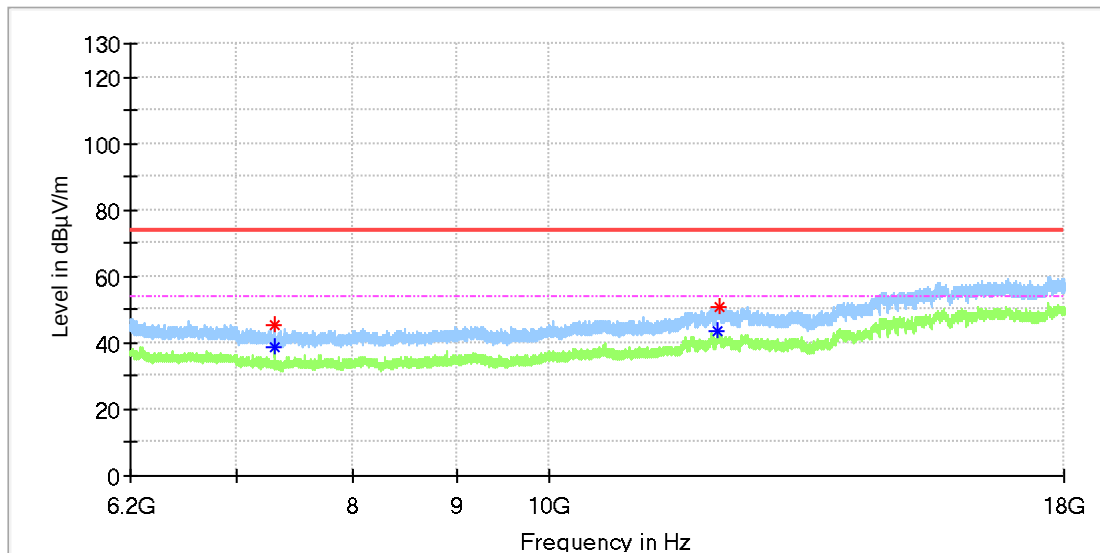
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4863.500000	51.46	---	74.00	22.54	150.0	V	116.0	13.3
4874.000000	---	41.06	54.00	12.94	150.0	V	142.0	13.3

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

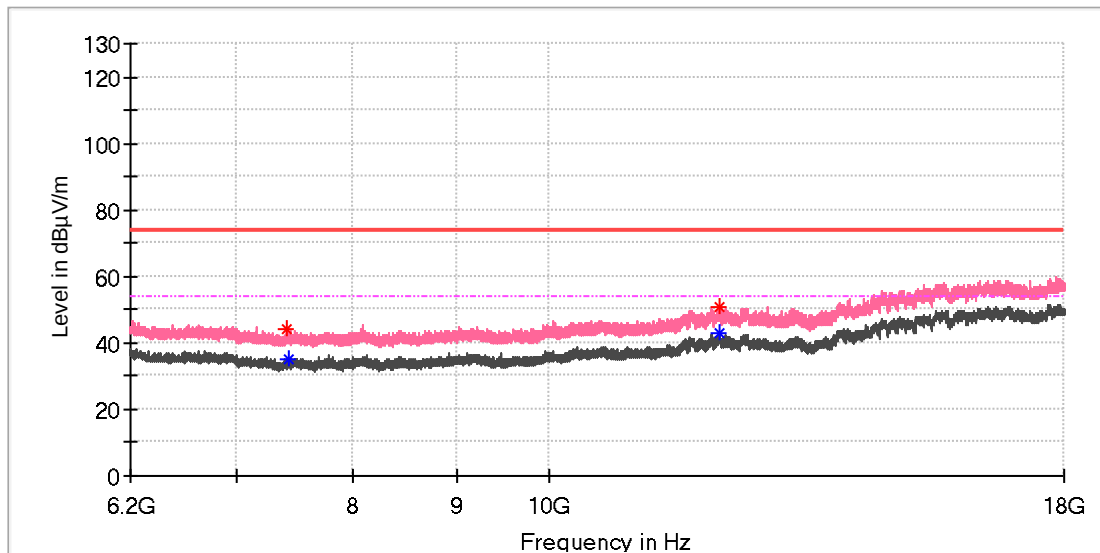
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7309.691667	45.20	---	74.00	28.80	150.0	H	299.0	8.2
7311.658333	---	38.51	54.00	15.49	150.0	H	299.0	8.2
12118.683333	---	43.48	54.00	10.52	150.0	H	224.0	15.9
12139.333333	50.75	---	74.00	23.25	150.0	H	255.0	16.5

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11b_Ch6
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7412.941667	43.96	---	74.00	30.04	150.0	V	14.0	8.3
7430.641667	---	35.19	54.00	18.81	150.0	V	14.0	8.4
12132.941667	50.83	---	74.00	23.17	150.0	V	0.0	16.3
12148.675000	---	42.67	54.00	11.33	150.0	V	124.0	16.7

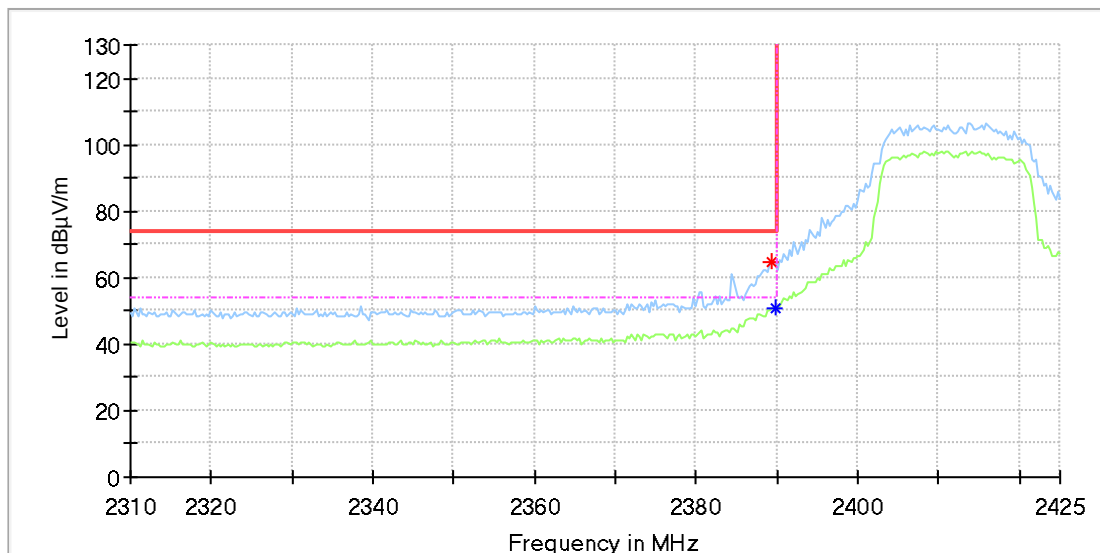
Final_Result

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

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

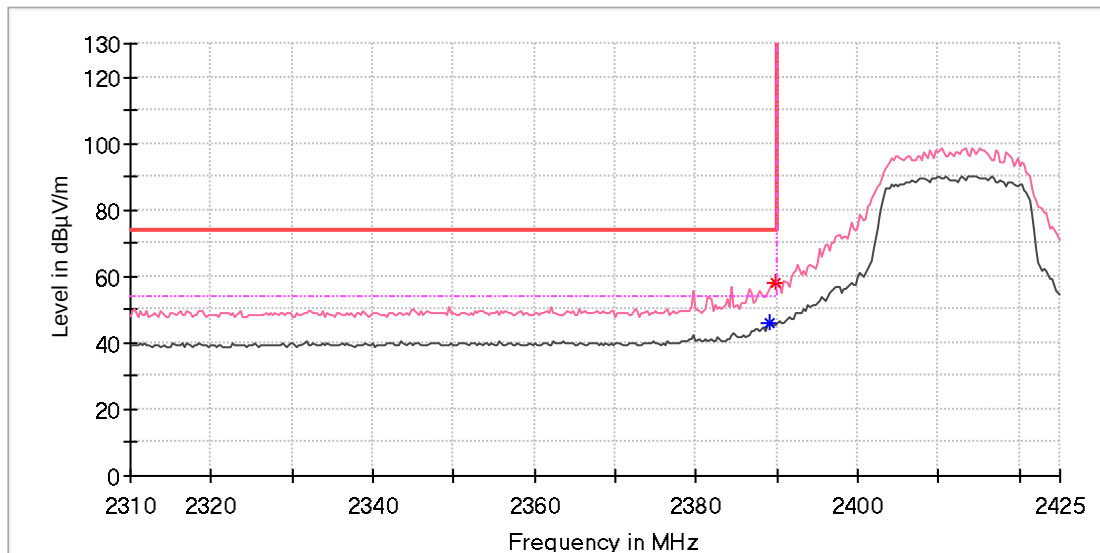
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	64.65	---	74.00	9.35	150.0	H	58.0	8.5
2389.705882	---	50.98	54.00	3.02	150.0	H	268.0	8.5

Final_Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n20_Ch1
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

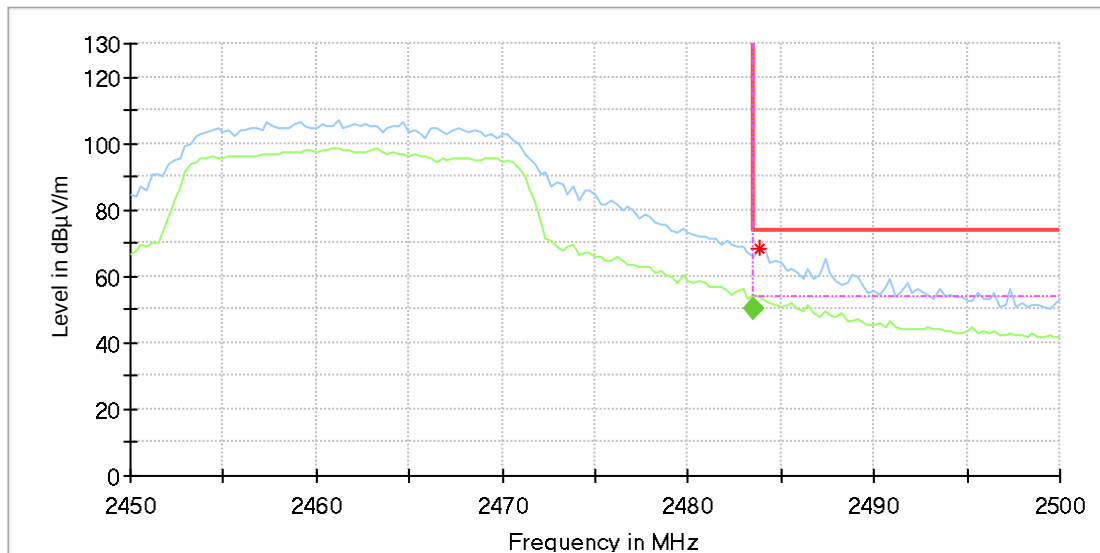
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.117647	---	46.22	54.00	7.78	150.0	V	303.0	8.5
2389.705882	58.24	---	74.00	15.76	150.0	V	311.0	8.5

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

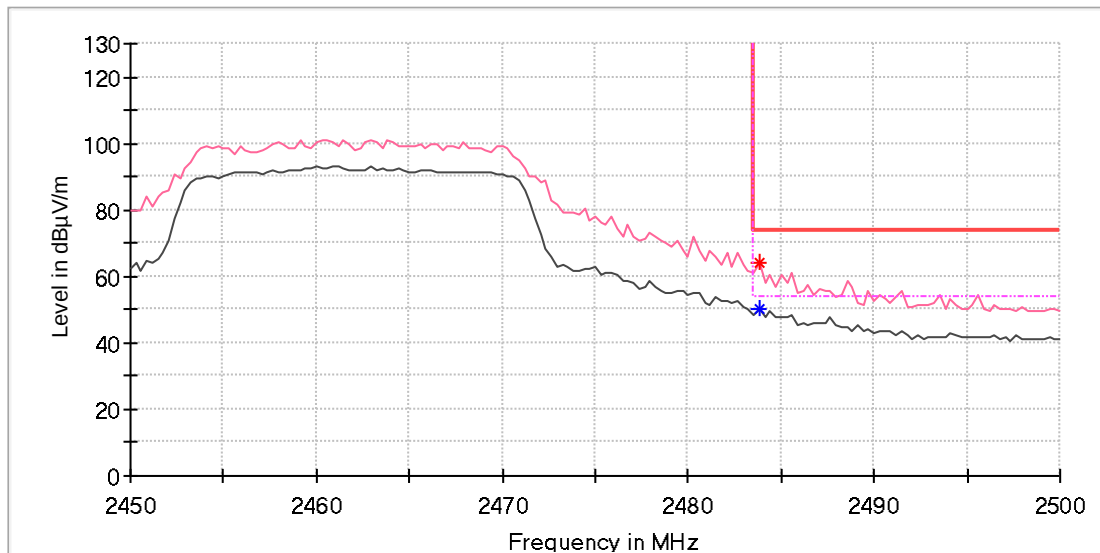
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	68.11	---	74.00	5.89	150.0	H	347.0	9.0

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.529412	50.28	54.00	3.72	148.0	H	287.0	9.0

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n20_Ch11
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

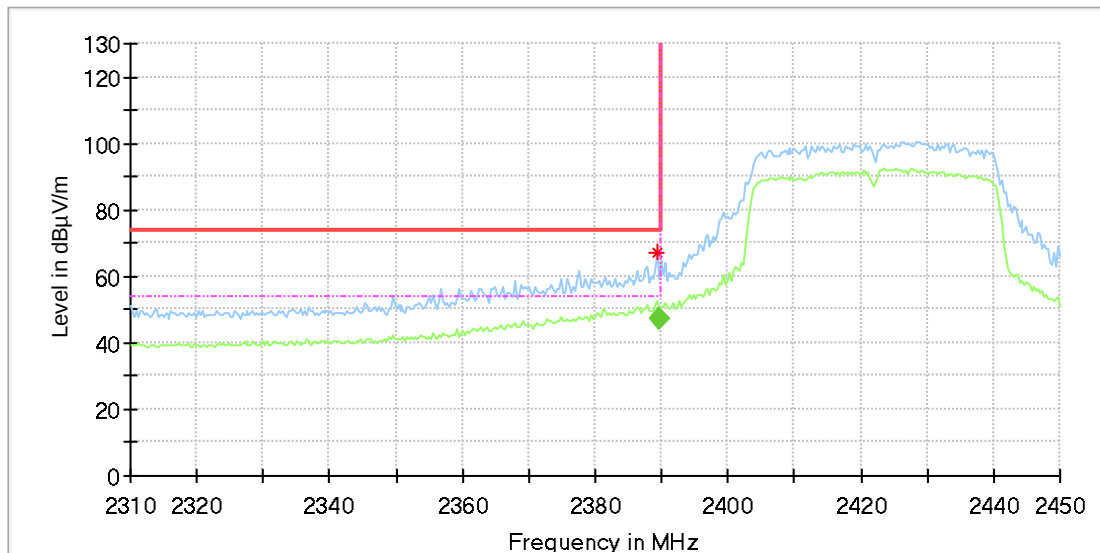
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.823529	64.17	---	74.00	9.83	150.0	V	340.0	9.0
2483.823529	---	50.11	54.00	3.89	150.0	V	340.0	9.0

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

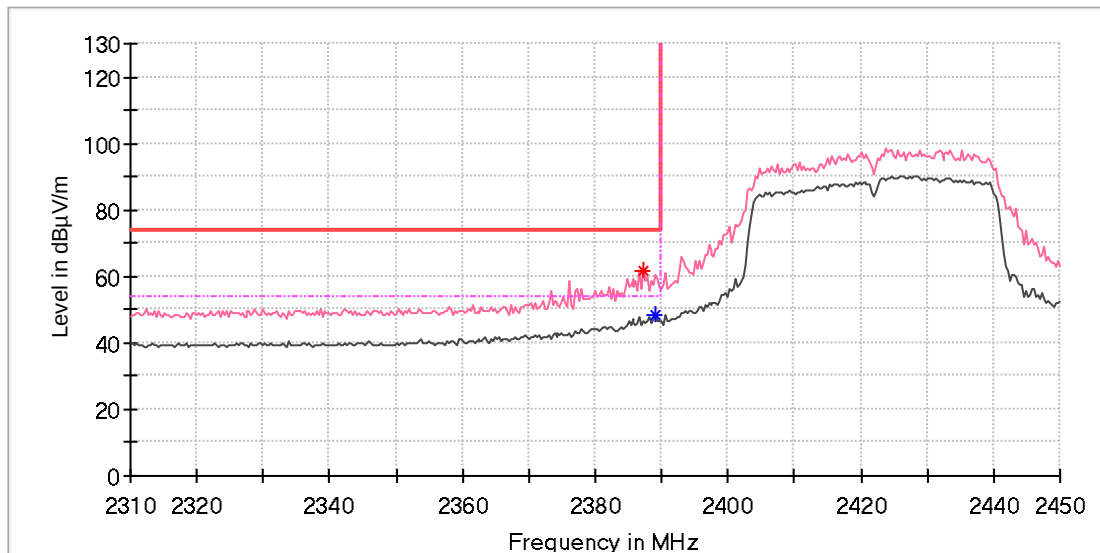
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.411765	67.11	---	74.00	6.89	150.0	H	260.0	8.5

Final_Result

Frequency (MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2389.660883	46.95	54.00	7.05	147.0	H	257.0	8.5

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n40_Ch3
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

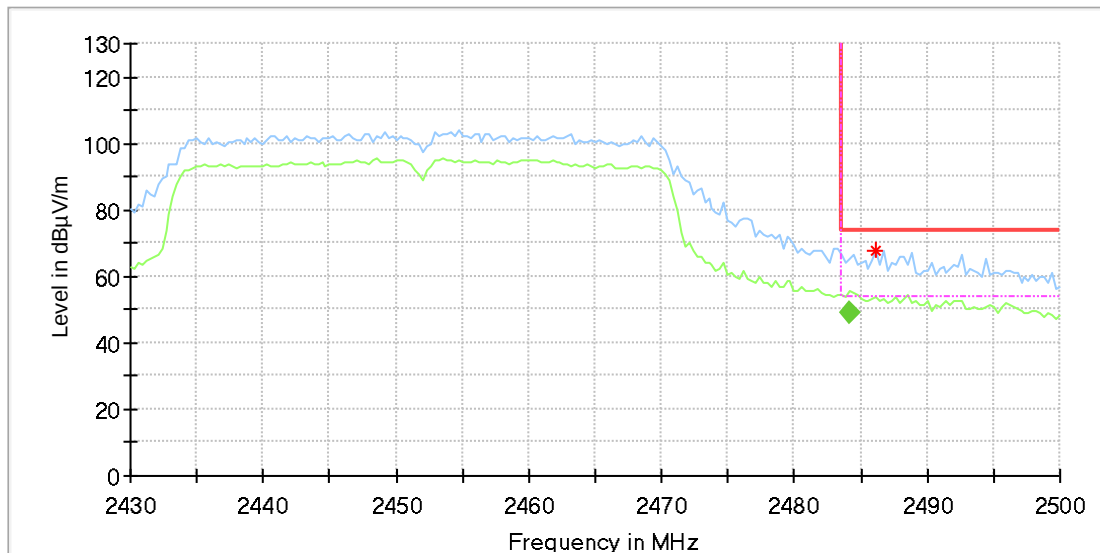
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2387.352941	61.69	---	74.00	12.31	150.0	V	285.0	8.5
2389.117647	---	48.36	54.00	5.64	150.0	V	359.0	8.5

Final Result

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

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

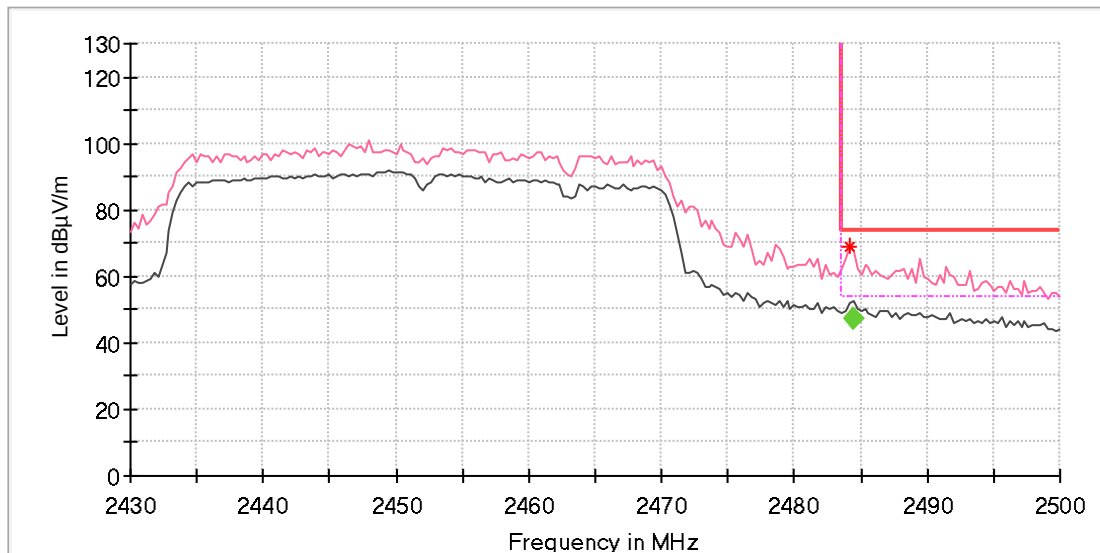
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.176471	67.57	---	74.00	6.43	150.0	H	330.0	9.0

Final Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	49.09	54.00	4.91	148.0	H	315.0	9.0

EUT Information

EUT Name:	POS Terminal
Model:	C20DS
Test Mode:	WIFI 2.4G_11n40_Ch9
Order No/Sample No:	168531160/A003911736-002
Test Voltage:	Adaptor
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.117647	68.93	---	74.00	5.07	150.0	V	334.0	9.0

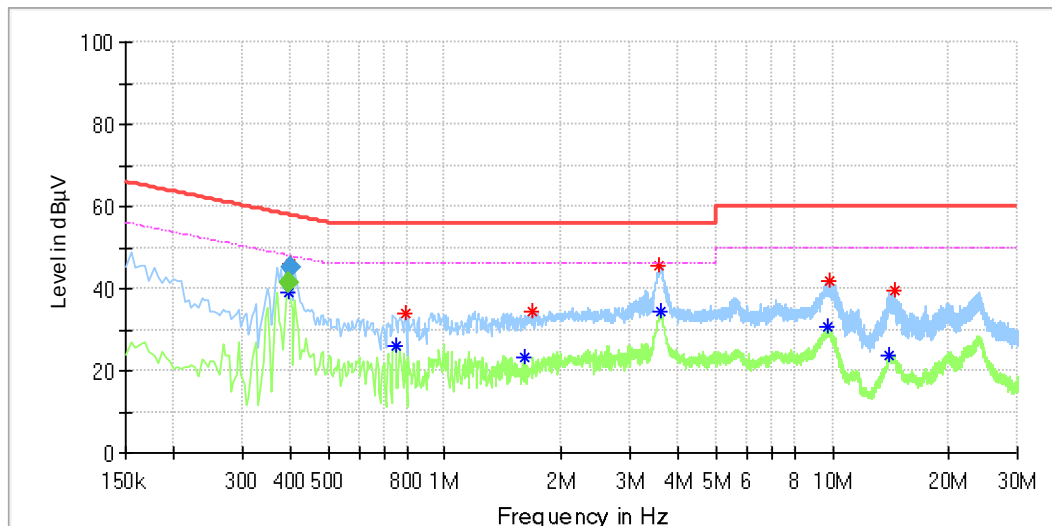
Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.411765	47.22	54.00	6.78	148.0	V	318.0	9.0

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

EUT Information

EUT Name: POS Terminal
Order Number: 168531160 60
Model: C20DS
Test Mode: Wi-Fi Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By./Review By: Dawn Shen/ Shower Dai
Tem./Hum./Pressure: 24.0°C/50.4%/101kPa
Remark: SR3



Critical Freqs

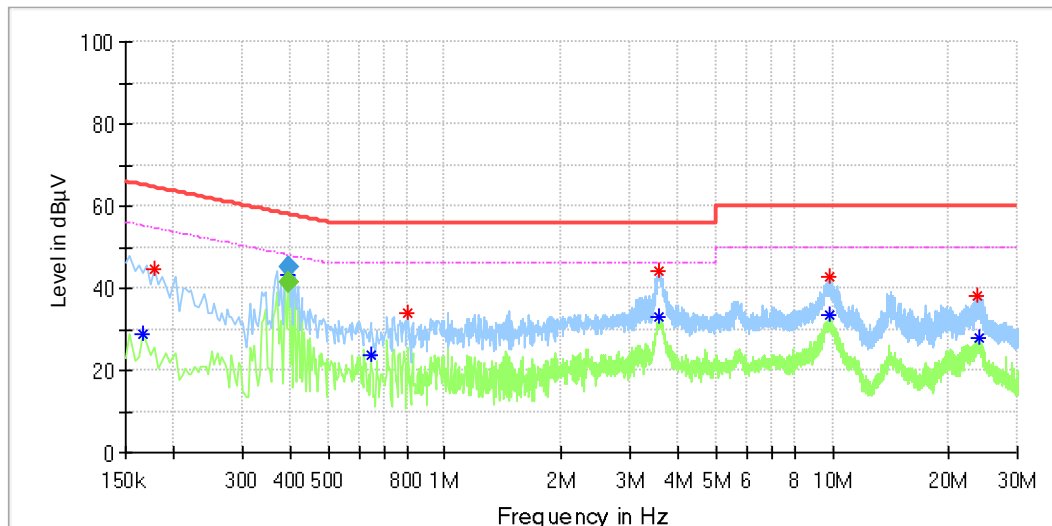
Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.393000	---	38.91	48.10	9.19	L1	9.9
0.397500	46.02	---	57.81	11.79	L1	9.9
0.744000	---	26.04	46.00	19.96	L1	9.9
0.793500	33.99	---	56.00	22.01	L1	9.9
1.608000	---	23.44	46.00	22.56	L1	10.0
1.689000	34.21	---	56.00	21.79	L1	10.0
3.556500	45.78	---	56.00	10.22	L1	10.1
3.597000	---	34.20	46.00	11.80	L1	10.1
9.694500	---	30.62	50.00	19.38	L1	10.2
9.811500	41.67	---	60.00	18.33	L1	10.2
14.041500	---	23.92	50.00	26.08	L1	10.2
14.388000	39.76	---	60.00	20.24	L1	10.2

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.393000	---	41.29	48.00	6.71	1000.0	9.000	L1	9.9
0.397500	45.00	---	57.91	12.91	1000.0	9.000	L1	9.9

EUT Information

EUT Name: POS Terminal
Order Number: 168531160 60
Model: C20DS
Test Mode: Wi-Fi Link
Test Voltage: AC 120V/60Hz
Test Standard: FCC Part 15C
Test By:/Review By: Dawn Shen/ Shower Dai
Tem./Hum./Pressure: 24.0°C/50.4%/101kPa
Remark: SR3



Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.166000	---	28.92	55.16	26.24	N	9.7
0.178000	44.56	---	64.58	20.02	N	9.7
0.393500	---	43.30	47.98	4.68	N	9.7
0.393500	45.77	---	57.98	12.21	N	9.7
0.642000	---	23.95	46.00	22.05	N	9.7
0.802000	34.17	---	56.00	21.83	N	9.7
3.554000	44.09	---	56.00	11.91	N	9.8
3.578000	---	32.91	46.00	13.09	N	9.8
9.830000	---	33.44	50.00	16.56	N	9.9
9.830000	42.95	---	60.00	17.05	N	9.9
23.710000	38.29	---	60.00	21.71	N	10.1
23.906000	---	27.96	50.00	22.04	N	10.1

Final Result

Frequency (MHz)	QuasiPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.393500	---	41.27	47.99	6.72	1000.0	9.000	N	9.7
0.393500	45.28	---	57.99	12.71	1000.0	9.000	N	9.7