



Test report No.: 2330285R-RFUSV07S-A

TEST REPORT

Product Name	Mobile Computer
Trademark	CIPHERLAB
Model and /or type reference	RS36W6O
FCC ID	Q3N-RS36W6O
Applicant's name / address	CipherLab Co., Ltd. 12F, 333, Dunhua S.Rd., Sec.2, Taipei, Taiwan
Manufacturer's name	CIPHERLAB CO. LTD.
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013
Verdict Summary	IN COMPLIANCE
Documented By (Senior Project Specialist / Joanne Lin)	Joanne Lin
Tested By (Senior Engineer / Bill Lin)	Bill Lin
Approved By (Senior Engineer / Alan Chen)	Alan Chen
Date of Receipt	2023/03/07
Date of Issue	2023/05/19
Report Version	V1.0

INDEX

	Page
1. General Information.....	5
1.1. EUT Description.....	5
1.2. Tested System Details.....	6
1.3. Configuration of tested System	6
1.4. EUT Exercise Software	6
1.5. Test Facility	7
1.6. List of Test Equipment.....	8
1.7. Uncertainty	9
2. Conducted Emission	10
2.1. Test Setup	10
2.2. Limits.....	10
2.3. Test Procedure	11
2.4. Test Result of Conducted Emission.....	12
3. Radiated Emission	13
3.1. Test Setup	13
3.2. Limits.....	14
3.3. Test Procedure	15
3.4. Test Result of Radiated Emission.....	16
4. Band Edge	19
4.1. Test Setup	19
4.2. Limits.....	19
4.3. Test Procedure	20
4.4. Test Result of Band Edge	21
5. Frequency Tolerance	22
5.1. Test Setup	22
5.2. Limits.....	22
5.3. Test Procedure	22
5.4. Test Result of Frequency Stability.....	23
6. 20dB Bandwidth	25
6.1. Test Setup	25
6.2. Limits.....	25
6.3. Test Procedure	25
6.4. Test Result of 20dB Bandwidth.....	26

Appendix 1: EUT Test Photographs

Appendix 2: Product Photos-Please refer to the file: 2330285R-Product Photos

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

General conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Report No.	Version	Description	Issued Date
2330285R-RFUSV07S-A	V1.0	Initial issue of report.	2023/05/19

1. General Information

1.1. EUT Description

Product Name	Mobile Computer
Trademark	CIPHERLAB
Model and /or type reference	RS36W6O
EUT Rated Voltage	DC 5V (Power by USB) or DC 3.85V (Power by Battery)
EUT Test Voltage	DC 5V (Power by USB)
Frequency Range	13.56 MHz
Modulation	ASK
Antenna Type	Loop
RS35 to USB Cable (Optional)	Non-Shielded, 1.5m, with one ferrite core bonded.
Power Adapter #1 (Optional)	MFR: Sunny, M/N: SYS1561-1005 Input: AC 100-240V~, 1.0A MAX, 50-60Hz Output: +5.0V=2.0A, 10.0W MAX.
Power Adapter #2 (Optional)	MFR: CWT, M/N: 2AEA010BC3D Input: AC 100-240V~ 50/60Hz 0.35A Output: 5.0V=2.0A, 10.0W

Frequency of Each Channel:

Channel	Frequency (MHz)
1	13.56

Note:

1. This device is a Mobile Computer with a built-in 13.56 MHz transceiver.
2. These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15 Subpart C Paragraph 15.225.
3. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1	Transmit
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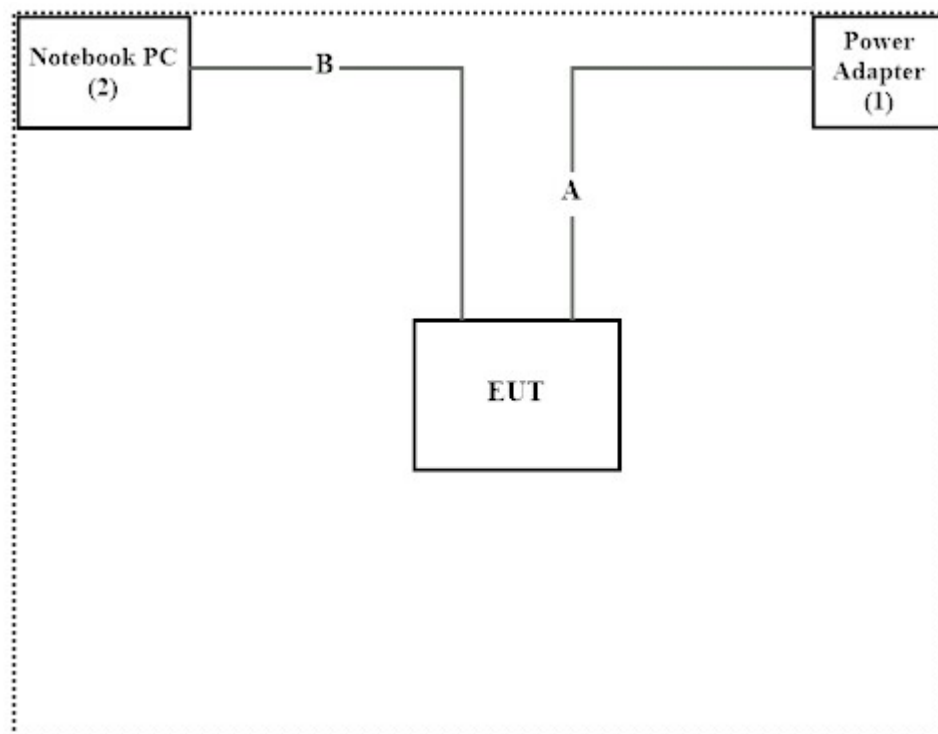
1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Power Adapter	CWT	2AEA010BC3D	N/A	N/A
2 Notebook PC	DELL	P62G	229FJC2	N/A

Cable Type	Cable Description
A Type C Cable	Non-shielded, 1m
B RS35 to USB Cable	Non-shielded, 1.5m, with one ferrite core bonded.

1.3. Configuration of tested System



1.4. EUT Exercise Software

1	Setup the EUT as shown in Section 1.3.
2	Execute software “HF RFID Configuration Ver. 1.0.17” on the Notebook PC.
3	Configure the test mode, the test channel.
4	Press “OK” to start the continuous transmit.
5	Verify that the EUT works properly.

1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
Conducted Emission	Temperature (°C)	10~40 °C	26.8 °C
	Humidity (%RH)	10~90 %	45.9 %
Radiated Emission	Temperature (°C)	10~40 °C	23.5 °C
	Humidity (%RH)	10~90 %	65.3 %
Conductive	Temperature (°C)	10~40 °C	25.0 °C
	Humidity (%RH)	10~90 %	50.0 %

USA	FCC Registration Number: TW0033
Canada	CAB Identifier Number: TW3023 / Company Number: 26930

Site Description	Accredited by TAF
	Accredited Number: 3023

Test Laboratory	DEKRA Testing and Certification Co., Ltd.
	Linkou Laboratory
Address	No.5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan, R.O.C
Performed Location	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone Number	+886-3-275-7255
Fax Number	+886-3-327-8031

1.6. List of Test Equipment

For Conduction Measurements / HY-SR01

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	EMI Test Receiver	R&S	ESR7	101601	2022/06/23	2023/06/22
V	Two-Line V-Network	R&S	ENV216	101306	2023/03/16	2024/03/15
V	Two-Line V-Network	R&S	ENV216	101307	2022/07/04	2023/07/03
V	Coaxial Cable	SUHNER	RG400 BNC	RF001	2022/05/24	2023/05/23

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with “V” are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

For Radiated Measurements / HY-CB03

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
V	Loop Antenna	AMETEK	HLA6121	49611	2023/02/21	2024/02/20
V	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-675	2021/08/11	2023/08/10
	Horn Antenna	RF SPIN	DRH18-E	210508A18ES	2022/06/08	2023/06/07
	Horn Antenna	Com-Power	AH-840	101100	2021/10/04	2023/10/03
V	Pre-Amplifier	SGH	0301	20211007-10	2023/01/10	2024/01/09
	Pre-Amplifier	SGH	PRAMP118	20200701	2023/01/10	2024/01/09
	Pre-Amplifier	EMCI	EMC05820SE	980310	2023/01/10	2024/01/09
	Pre-Amplifier	EMCI	EMC184045SE	980369	2023/01/10	2024/01/09
	Coaxial Cable	EMCI	EMC102-KM-KM-600	1160314		
	Coaxial Cable	EMCI	EMC102-KM-KM-7000	170242		
	Filter	MICRO TRONICS	BRM50702	G269	2023/01/05	2024/01/04
	Filter	MICRO TRONICS	BRM50716	G196	2023/01/05	2024/01/04
V	EMI Test Receiver	R&S	ESR3	102793	2022/12/05	2023/12/04
	Spectrum Analyzer	R&S	FSV3044	101114	2023/02/16	2024/02/15
V	Coaxial Cable	SGH	SGH18	2021005-1	2023/01/10	2024/01/09
	Coaxial Cable	SGH	SGH18	202108-4		
	Coaxial Cable	SGH	HA800	GD20110223-1		
	Coaxial Cable	SGH	HA800	GD20110222-3		

Note:

1. Bi-Log Antenna and Horn Antenna(AH-840) is calibrated every two years, the other equipments are calibrated every one year.
2. The test instruments marked with “V” are used to measure the final test results.
3. Test Software Version: e3 230303 dekra V9.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

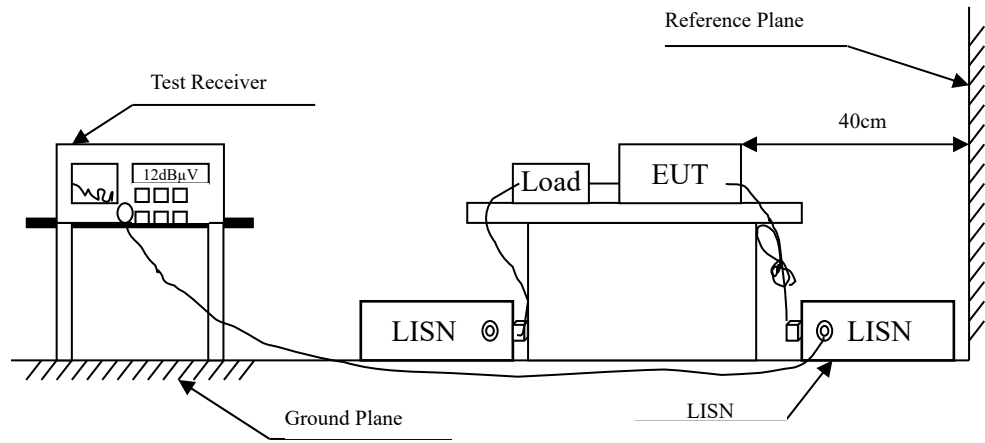
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty
Conducted Emission	± 3.50 dB
Radiated Emission	9 kHz~30 MHz: ± 3.88 dB 30 MHz~1 GHz: ± 4.42 dB 1 GHz~18 GHz: ± 4.28 dB 18 GHz~40 GHz: ± 3.90 dB
Band Edge	9 kHz~30 MHz: ± 3.88 dB 30 MHz~1 GHz: ± 4.42 dB 1 GHz~18 GHz: ± 4.28 dB 18 GHz~40 GHz: ± 3.90 dB
Frequency Tolerance	± 1580.61 Hz
20dB Bandwidth	± 1580.61 Hz

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit		
Frequency MHz	Limits	
	QP	AV
0.15 - 0.50	66-56 _(±2)	56-46 _(±2)
0.50 - 5.0	56	46
5.0 - 30	60	50

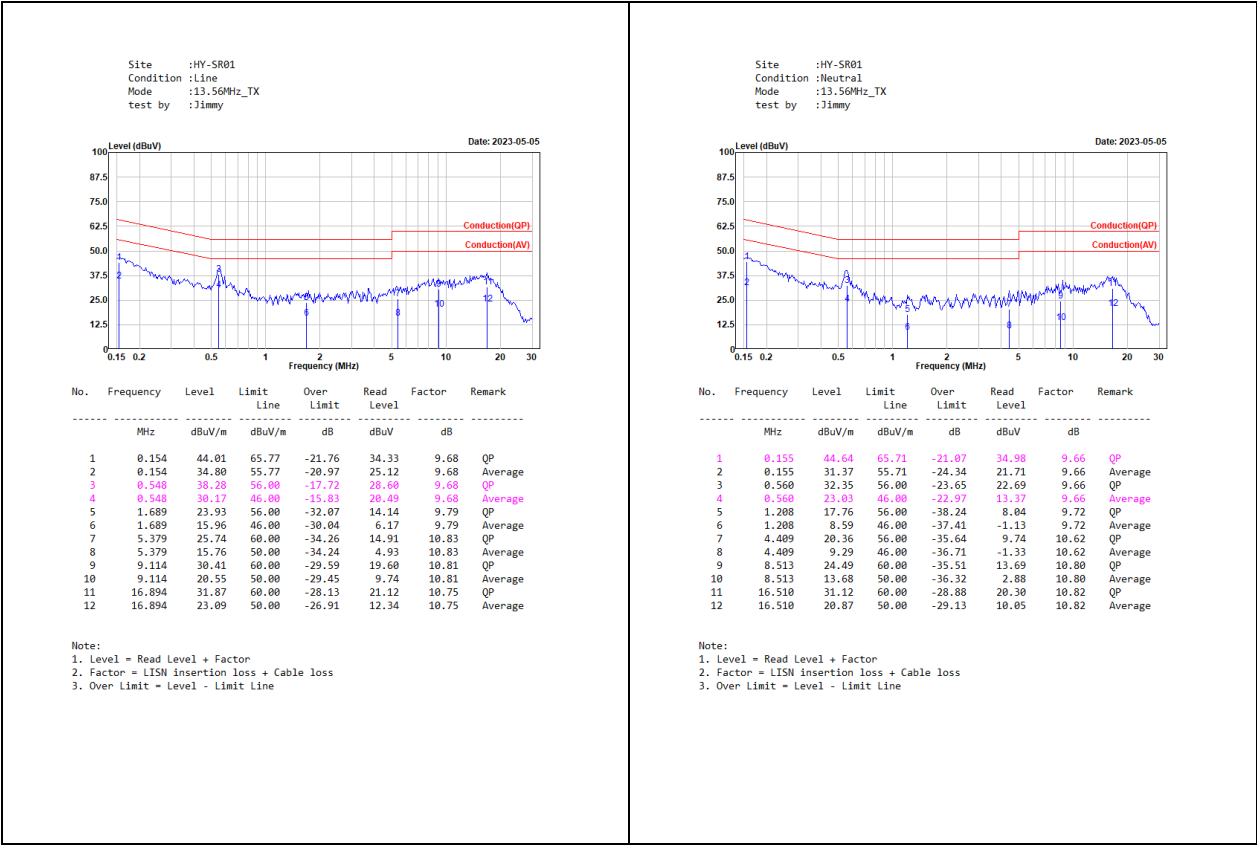
2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15 MHz to 30 MHz using a receiver bandwidth of 9 kHz.

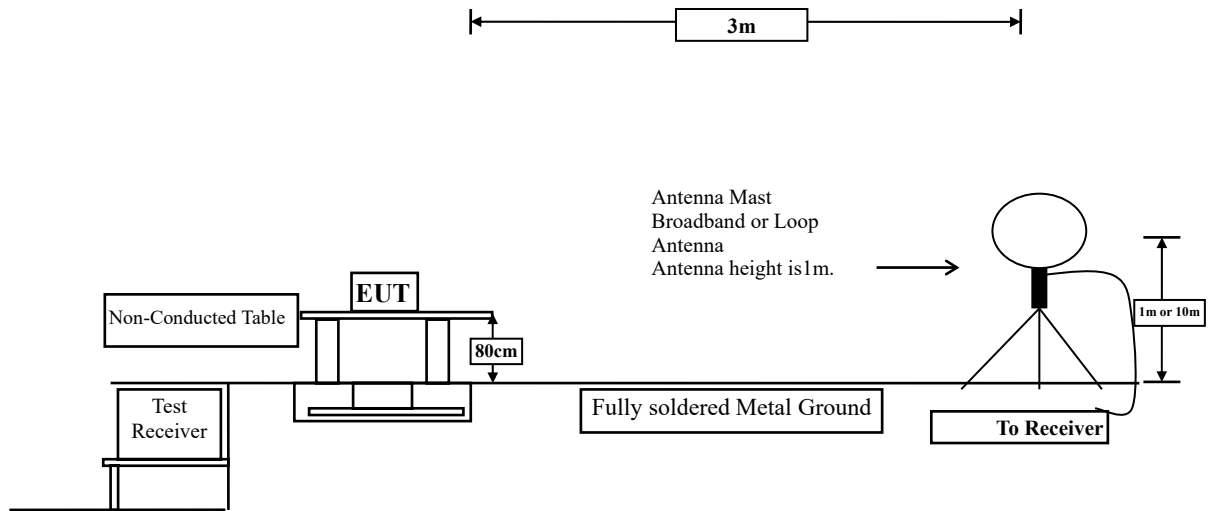
2.4. Test Result of Conducted Emission



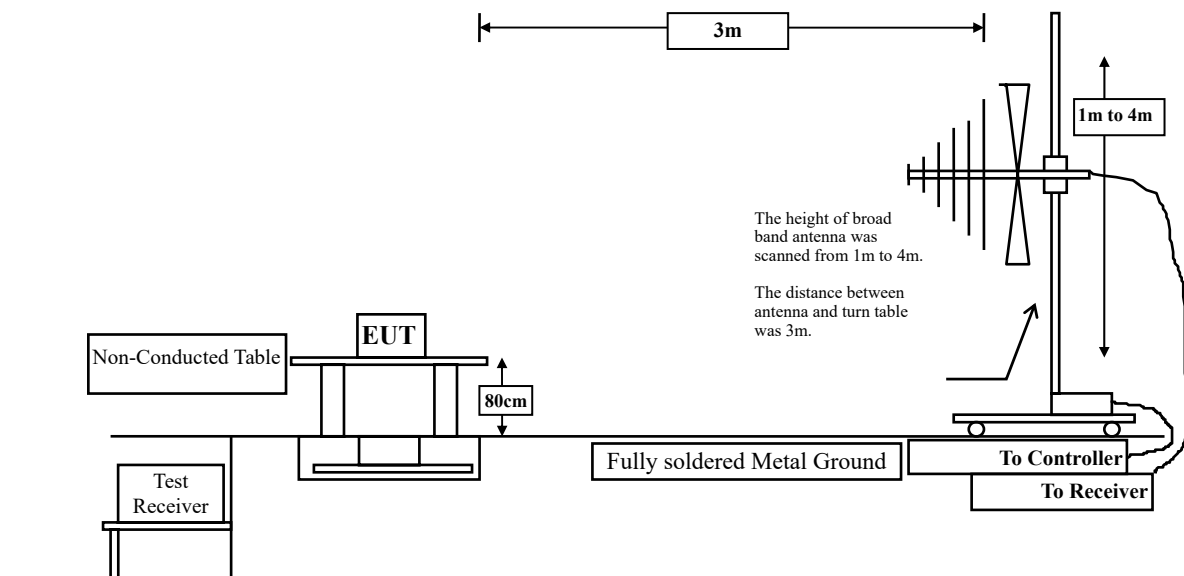
3. Radiated Emission

3.1. Test Setup

Radiated Emission Under 30 MHz



Radiated Emission Below 1 GHz



3.2. Limits

➤ Fundamental electric field strength Limit

Fundamental Frequency MHz	Field strength of fundamental			
	μV/m	Distance (meter)	dBμV/m	Distance (meter)
13.553 – 13.567	15848	30	124	3
13.410 – 13.553 and 13.567 – 13.710	334	30	90.47	3
13.110 – 13.410 and 13.710 – 14.010	106	30	80.50	3
Outside of the 13.110 – 14.010	See 15.209 Limits			

Remarks :

1. RF Voltage (dBμV) = 20 log RF Voltage (μV)
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. The emission limit in this paragraph is based on measurement instrumentation employing an quasi-peak detector.

➤ Spurious electric field strength Limit

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks :

1. RF Voltage (dBμV) = 20 log RF Voltage (μV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

3.3. Test Procedure

Fundamental electric field strength:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum electric field strength. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna which is 1 meter above ground. All X-axis, Y-axis and Z-axis polarization of the antenna are set on measurement.

Spurious electric field strength:

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

The bandwidth below 30 MHz setting on the field strength meter is 9 kHz and above 30 MHz is 120 kHz.

The frequency range from 9 kHz to 10th harmonics is checked.

3.4. Test Result of Radiated Emission

Site :HY-CB03
Condition :3m ,Horizontal
Mode :Tx_Fundamental_X
Test BY :Ashton

Level (dBuV/m)

130
113.8
97.5
81.3
65.0
48.8
16.3
0

12.56 12.96 13.36 13.76 14.16 14.56

Frequency (MHz)

FC(13.56M_Fundamental_3m)

1 2 3 4 5 6 7

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	12.640	35.55	69.50	-33.95	14.14	21.41	QP
2	13.346	36.65	80.50	-43.85	15.35	21.30	QP
3	13.452	36.03	90.47	-54.44	14.73	21.30	QP
4	13.558	57.10	124.00	-66.90	35.80	21.30	QP
5	13.658	35.83	90.47	-54.64	14.53	21.30	QP
6	13.770	35.32	80.50	-45.18	14.02	21.30	QP
7	14.072	34.68	69.50	-34.82	13.38	21.30	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :Tx_Fundamental_X
Test BY :Ashton

Level (dBuV/m)

130
113.8
97.5
81.3
65.0
48.8
16.3
0

12.56 12.96 13.36 13.76 14.16 14.56

Frequency (MHz)

FC(13.56M_Fundamental_3m)

1 2 3 4 5 6 7

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	12.952	37.43	69.50	-32.07	16.12	21.31	QP
2	13.216	37.19	80.50	-43.31	15.89	21.30	QP
3	13.502	37.49	90.47	-52.98	16.19	21.30	QP
4	13.560	57.50	124.00	-66.50	36.20	21.30	QP
5	13.666	36.52	90.47	-53.95	15.22	21.30	QP
6	13.772	36.57	80.50	-43.93	15.27	21.30	QP
7	14.380	37.54	69.50	-31.96	16.24	21.30	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m ,Horizontal
Mode :Tx_Fundamental_Y
Test BY :Ashton

Level (dBuV/m)

130
113.8
97.5
81.3
65.0
48.8
16.3
0

12.56 12.96 13.36 13.76 14.16 14.56

Frequency (MHz)

FC(13.56M_Fundamental_3m)

1 2 3 4 5 6 7

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	12.706	34.10	69.50	-35.40	12.71	21.39	QP
2	13.346	33.88	80.50	-46.62	12.58	21.30	QP
3	13.452	35.14	90.47	-55.33	13.84	21.30	QP
4	13.558	61.33	124.00	-62.67	40.03	21.30	QP
5	13.664	34.78	90.47	-55.69	13.48	21.30	QP
6	13.770	33.73	80.50	-46.77	12.43	21.30	QP
7	14.510	34.18	69.50	-35.32	12.88	21.30	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m ,Vertical
Mode :Tx_Fundamental_Y
Test BY :Ashton

Level (dBuV/m)

130
113.8
97.5
81.3
65.0
48.8
16.3
0

12.56 12.96 13.36 13.76 14.16 14.56

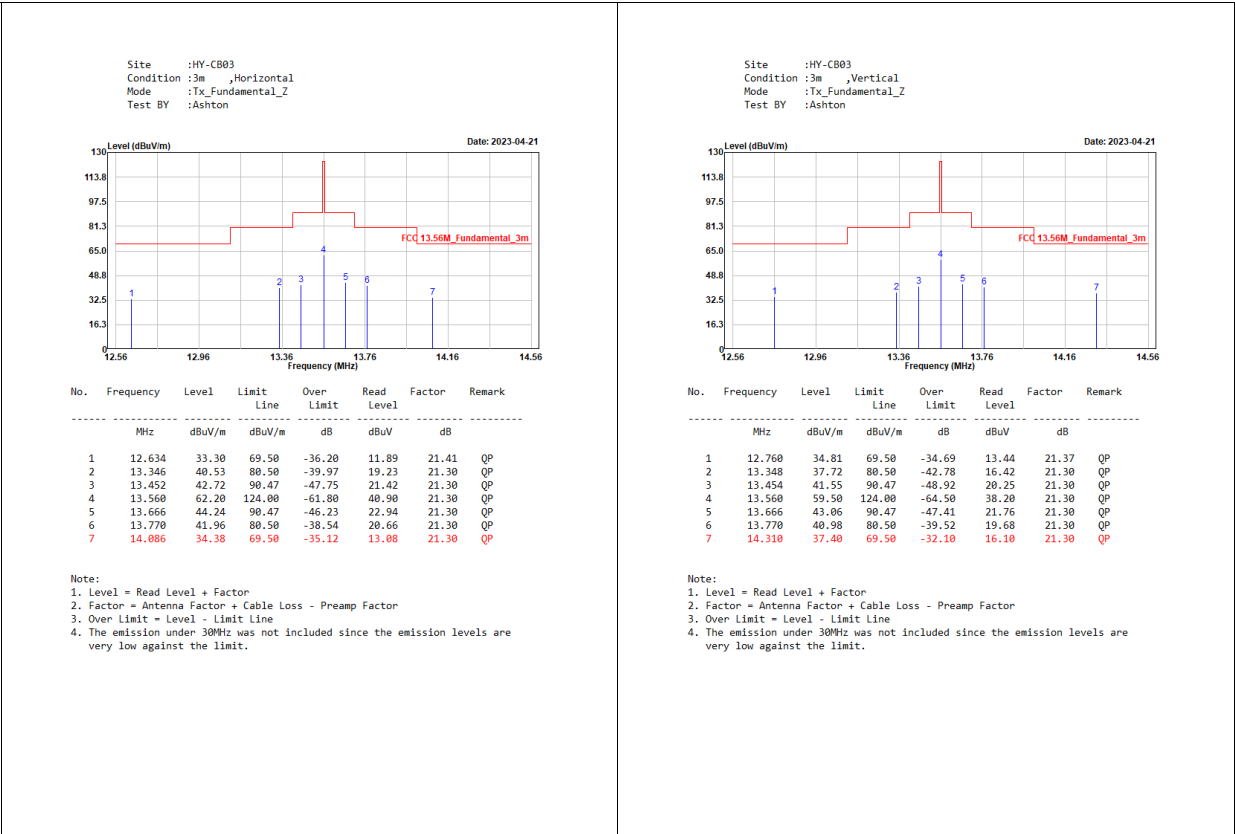
Frequency (MHz)

FC(13.56M_Fundamental_3m)

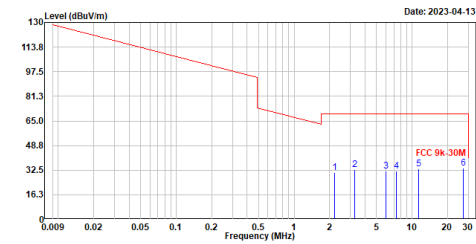
1 2 3 4 5 6 7

No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level	dB	
1	13.026	35.91	69.50	-33.59	14.61	21.30	QP
2	13.346	38.93	80.50	-41.57	17.63	21.30	QP
3	13.454	39.87	90.47	-50.60	18.57	21.30	QP
4	13.558	59.50	124.00	-64.50	38.20	21.30	QP
5	13.668	40.82	90.47	-49.65	19.52	21.30	QP
6	13.772	38.61	80.50	-41.89	17.31	21.30	QP
7	14.312	35.97	69.50	-33.53	14.67	21.30	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.



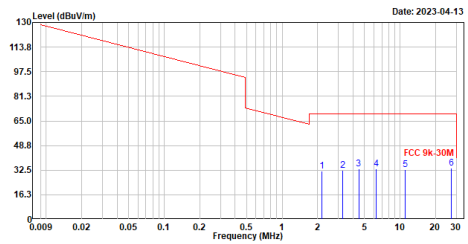
Site :HY-CB03
Condition :3m ,Horizontal
Mode :TX_9k~30MHz
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2.282	31.03	69.50	-38.47	11.73	19.30	QP
2	3.250	32.78	69.50	-36.72	13.40	19.38	QP
3	5.971	32.02	69.50	-37.48	11.05	20.97	QP
4	7.373	31.95	69.50	-37.55	10.99	20.96	QP
5	11.334	33.22	69.50	-36.28	11.69	21.53	QP
6	27.120	33.90	69.50	-35.60	11.29	22.61	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

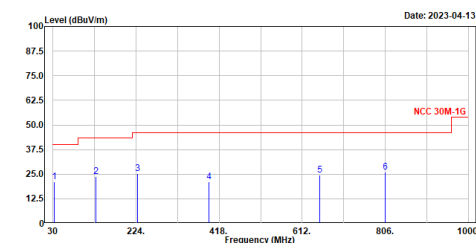
Site :HY-CB03
Condition :3m ,Vertical
Mode :TX_9k~30MHz
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	2.166	31.65	69.50	-37.85	12.35	19.30	QP
2	3.250	32.52	69.50	-36.98	13.14	19.38	QP
3	4.459	33.29	69.50	-36.21	13.60	19.69	QP
4	6.269	33.29	69.50	-36.21	12.29	21.00	QP
5	10.972	32.96	69.50	-36.54	11.47	21.49	QP
6	27.120	34.02	69.50	-35.48	11.41	22.61	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

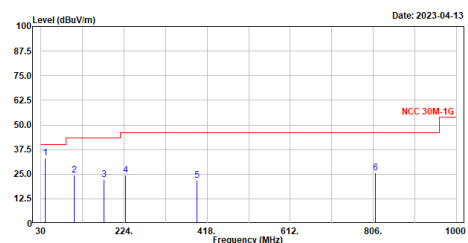
Site :HY-CB03
Condition :3m ,HORIZONTAL
Mode :TX_30M~1G
Test BY :Ashton



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	33.880	21.27	40.00	-18.73	46.36	-25.09	QP
2	129.910	23.71	43.50	-19.79	49.06	-25.35	QP
3	226.910	25.21	46.00	-20.79	51.80	-26.59	QP
4	393.750	21.00	46.00	-25.00	42.31	-21.31	QP
5	653.710	24.49	46.00	-21.51	39.89	-15.40	QP
6	806.000	25.88	46.00	-20.12	39.17	-13.29	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m ,VERTICAL
Mode :TX_30M~1G
Test BY :Ashton



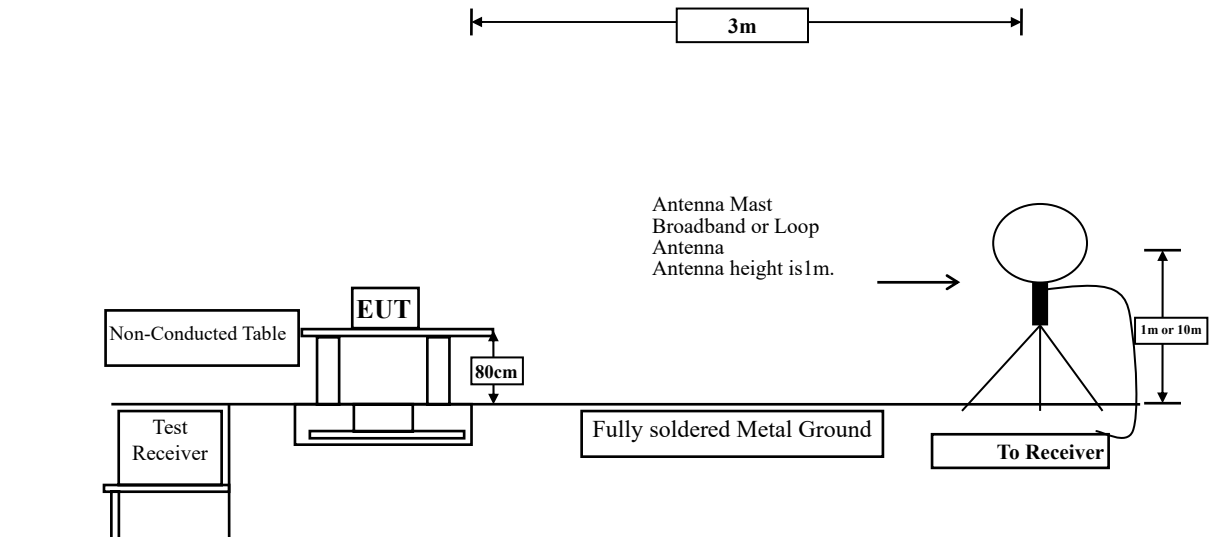
No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBuV/m	Line	Limit	Level		
1	40.670	33.16	40.00	-6.84	57.50	-24.34	QP
2	108.570	24.37	43.50	-19.13	52.03	-27.66	QP
3	177.440	22.31	43.50	-21.19	47.52	-25.21	QP
4	227.800	24.43	46.00	-21.57	50.93	-26.50	QP
5	394.720	21.75	46.00	-24.25	43.05	-21.30	QP
6	811.820	25.48	46.00	-20.52	38.75	-13.27	QP

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor
3. Over Limit = Level - Limit Line
4. The emission under 30MHz was not included since the emission levels are very low against the limit.

4. Band Edge

4.1. Test Setup

Radiated Emission Under 30 MHz



4.2. Limits

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in Section 15.209. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209.

4.3. Test Procedure

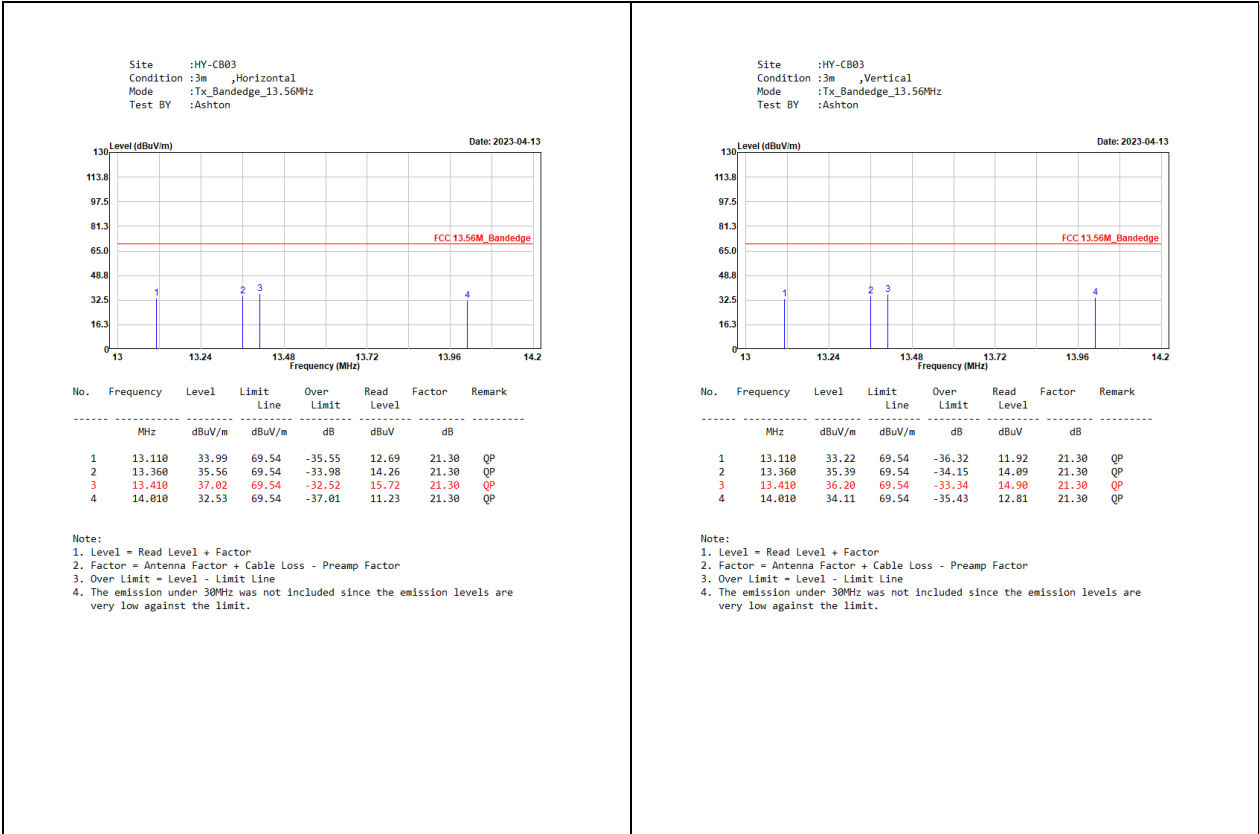
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

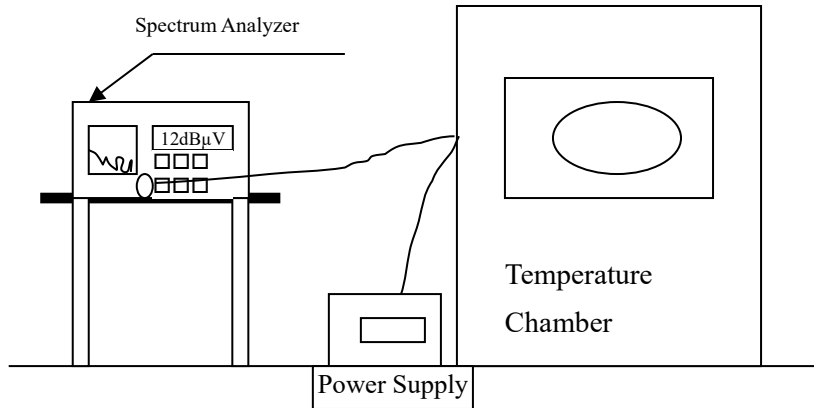
The bandwidth below 30 MHz setting on the field strength meter is 9 kHz and above 30 MHz is 120 kHz.

4.4. Test Result of Band Edge



5. Frequency Tolerance

5.1. Test Setup



5.2. Limits

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency.

5.3. Test Procedure

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+ 50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

5.4. Test Result of Frequency Stability

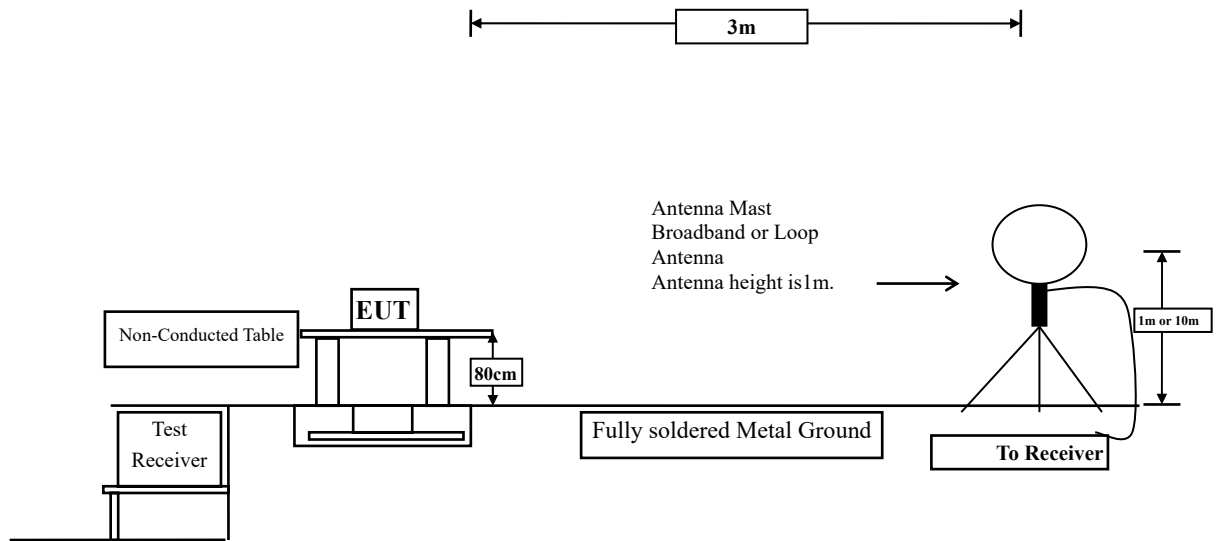
Product : Mobile Computer
 Test Item : Frequency Tolerance
 Test Mode : Transmit
 Test date : 2023/05/03

Temperature (°C)	Voltage (V)	Observe Time	Declared Frequency (MHz)	Read Frequency (MHz)	Tolerance (%)	Limit (%)
20	3.85	start	13.56	13.55986	-0.001032	± 0.01 %
		2mins	13.56	13.55986	-0.001032	
		5mins	13.56	13.55986	-0.001032	
		10mins	13.56	13.55986	-0.001032	
20	4.4	start	13.56	13.55986	-0.001032	± 0.01 %
		2mins	13.56	13.55986	-0.001032	
		5mins	13.56	13.55986	-0.001032	
		10mins	13.56	13.55986	-0.001032	
20	3.6	start	13.56	13.55986	-0.001032	± 0.01 %
		2mins	13.56	13.55986	-0.001032	
		5mins	13.56	13.55986	-0.001032	
		10mins	13.56	13.55986	-0.001032	
50	3.85	start	13.56	13.55988	-0.000885	± 0.01 %
		2mins	13.56	13.55988	-0.000885	
		5mins	13.56	13.55988	-0.000885	
		10mins	13.56	13.55988	-0.000885	
40	3.85	start	13.56	13.55988	-0.000885	± 0.01 %
		2mins	13.56	13.55988	-0.000885	
		5mins	13.56	13.55988	-0.000885	
		10mins	13.56	13.55988	-0.000885	
30	3.85	start	13.56	13.55985	-0.001106	± 0.01 %
		2mins	13.56	13.55985	-0.001106	
		5mins	13.56	13.55985	-0.001106	
		10mins	13.56	13.55985	-0.001106	

10	3.85	start	13.56	13.55980	-0.001475	± 0.01 %
		2mins	13.56	13.55980	-0.001475	
		5mins	13.56	13.55980	-0.001475	
		10mins	13.56	13.55980	-0.001475	
0	3.85	start	13.56	13.55986	-0.001032	± 0.01 %
		2mins	13.56	13.55986	-0.001032	
		5mins	13.56	13.55986	-0.001032	
		10mins	13.56	13.55986	-0.001032	
-10	3.85	start	13.56	13.56014	0.001032	± 0.01 %
		2mins	13.56	13.56014	0.001032	
		5mins	13.56	13.56014	0.001032	
		10mins	13.56	13.56014	0.001032	
-20	3.85	start	13.56	13.56014	0.001032	± 0.01 %
		2mins	13.56	13.56014	0.001032	
		5mins	13.56	13.56014	0.001032	
		10mins	13.56	13.56014	0.001032	

6. 20dB Bandwidth

6.1. Test Setup



6.2. Limits

The 20dB Bandwidth must be specified in operating frequency band (13.11-14.01 MHz).

6.3. Test Procedure

The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 6.9.2 for compliance to FCC 47CFR 15.215 requirements.

6.4. Test Result of 20dB Bandwidth

Product : Mobile Computer
 Test Item : 20dB Bandwidth
 Test Mode : Transmit
 Test date : 2023/05/10

Frequency (MHz)	20dB Bandwidth (Hz)	Measurement Level (MHz)	Required Limit (MHz)	Result
13.56	77.9	13.559	>13.11	Pass
		13.559	<14.01	Pass

