



Report No.: E26S1014092-U101
Report Version: V01
Issue Date: 2026-10-08

EMC MEASUREMENT REPORT

FCC ID: 2BXPU020
Applicant: TERAHOP PTE. LTD.
Address: 25 INTERNATIONAL BUSINESS PARK #02-72/75
GERMAN CENTRE SINGAPORE
Product: 400G QSFP-DD DR4 C1 Sipho
Model No.: T-DP4CNx-Nxx
Brand Name: TERAHOP
FCC Rule Part(s): FCC Part 15 Subpart B
ISED Rule(s): ICES-003 Issue 7 (October 15, 2020)
Test Procedure: ANSI C63.4-2014
Result: Complies
Received Date: 2026-09-01
Test Date: 2026-09-01 ~ 2026-09-02

Prepared By:

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Reviewed By:

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Jame Yuan

Approved By:

Robin Wu

Robin Wu

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
E26S1014092-U101	V01	Initial Report	2026-10-08	Valid

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1. General Information

1.1. Applicant

TERAHOP PTE. LTD.

25 INTERNATIONAL BUSINESS PARK #02-72/75 GERMAN CENTRE SINGAPORE

1.2. Manufacturer

TERAHOP PTE. LTD.

25 INTERNATIONAL BUSINESS PARK #02-72/75 GERMAN CENTRE SINGAPORE

1.3. Testing Facility

Test Site - MRT Suzhou Laboratory	
☐ Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China	
☒ Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China	
☐ Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China	
Laboratory Accreditations	
A2LA: 3628.01	CNAS: L10551
FCC: CN1166	ISED: CN0001

1.4. Product Information

Product Name	400G QSFP-DD DR4 C1 Sipho
Model No.	T-DP4CNx-Nxx Note 2
Test Device Model No.	T-DP4CNH-N00 Note 3
Brand Name	TERAHOP
Test Device Serial No.	ICQBEV560011
Operating Temp	0 ~ 70 °C
Power Type	DC 3.3 V
Operating Rate	26.5625GBaud

Notes:

1. The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.
2. The first "x" can be A ~ Z, which indicate the transmission distance, the last "xx" can be 00 ~ 99 or AA ~ ZZ, which indicate customer code. All models have the same hardware and multiple models exist in order to satisfy the sales needs of various markets.
3. It has been confirmed with the applicant that the model differences do not affect the product compliance testing. Therefore, Model T-DP4CNH-N00 was selected as the representative model for testing in this report.

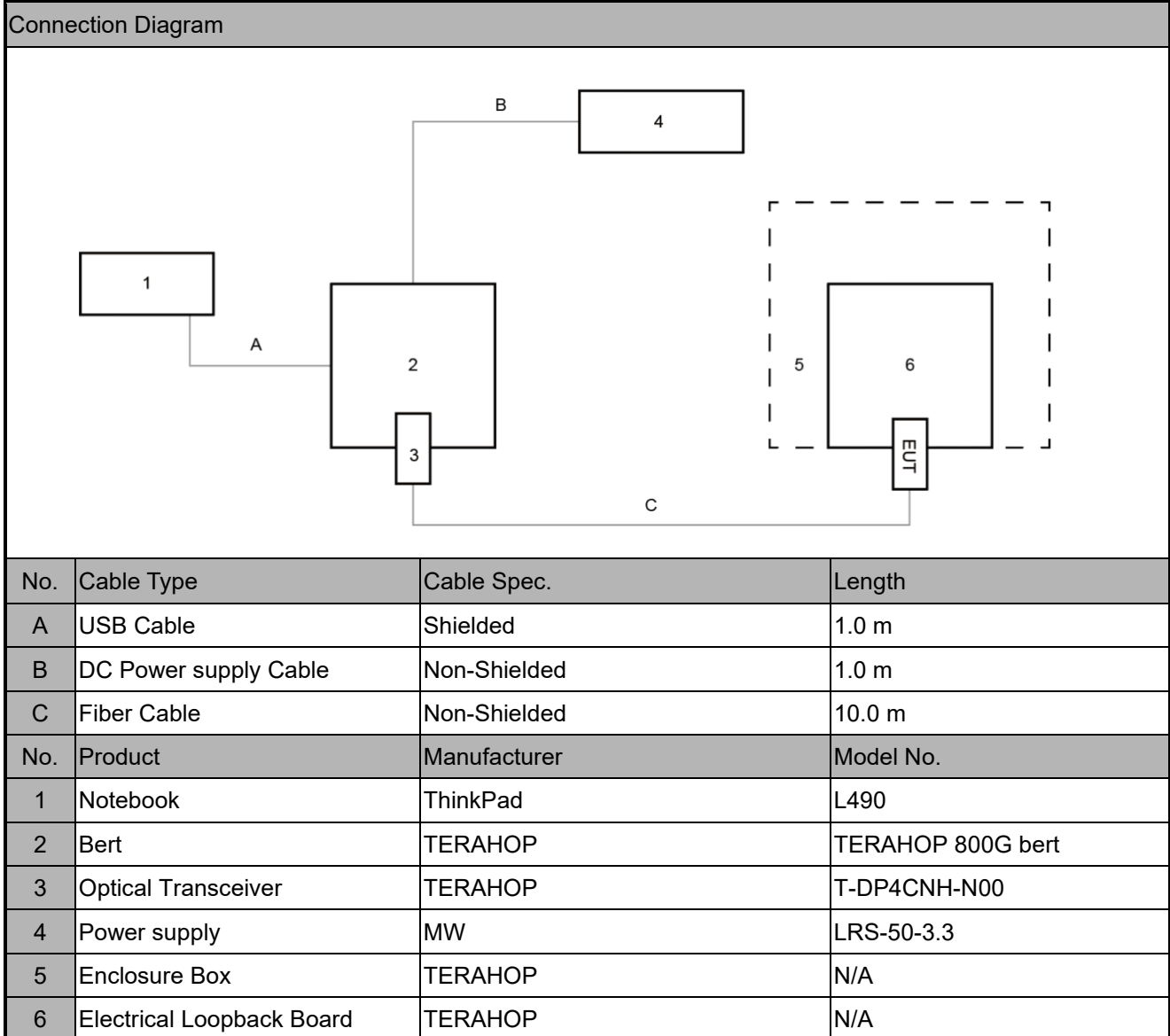
2. Test Configuration

2.1. Test Mode

Mode 1: The EUT powered by the Electrical Loopback Board + connect to the Optical Transceiver on Bert through the Fiber cable + the Bert connect to the Notebook + make the EUT and the Optical Transceiver transmit and receive at the data rate of 26.5625GBaud PAM4 per channel.

2.2. Configuration of Tested System

The measurement procedures and appropriate EUT setup described in the ANSI C63.4-2014 was used in the measurement.



Note: All the accessory equipment was supplied by manufacturer.

2.3. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

3. Measuring Instrument

Instrument Name	Manufacturer	Model No.	Asset No.	Cali. Interval	Cal. Due Date	Test Site
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2026-10-17	SIP-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06600	1 year	2026-10-15	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2026-10-08	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2027-05-11	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2026-12-15	SIP-AC2
Signal Analyzer	Keysight	N9020B	MRTSUE06604	1 year	2027-01-21	SIP-AC2
EMI Test Receiver	R&S	ESR3	MRTSUE06613	1 year	2026-09-28	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06598	1 year	2026-11-02	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2026-09-29	SIP-AC2

Software	Version	Function
e3	230711	RE & CE
Controller_MF 7802	2.03C	RE Antenna & Turntable

4. Decision Rules and Measurement Uncertainty

4.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2.
(Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

4.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

Conducted Emission Measurement
The maximum measurement uncertainty is evaluated as: 9 kHz ~ 150 kHz: 3.59 dB 150 kHz ~ 30 MHz: 3.20 dB
Radiated Emission Measurement
The maximum measurement uncertainty is evaluated as: Horizontal: 30 MHz ~ 200 MHz: 3.48 dB 200 MHz ~ 1 GHz: 4.17 dB 1 GHz ~ 40 GHz: 5.01 dB Vertical: 30 MHz ~ 200 MHz: 4.09 dB 200 MHz ~ 1 GHz: 5.30 dB 1 GHz ~ 40 GHz: 4.85 dB

5. Test Result

5.1. Summary

FCC Part Section(s)	ICES-003 Section(s)	Test Description	Result
15.107	3.2.1	Conducted Emission	N/A
15.109	3.2.2	Radiated Emission	Pass

Note: "N/A" means that the test item is not applicable, and the detailed information refers to relevant section.

5.2. Conducted Emission

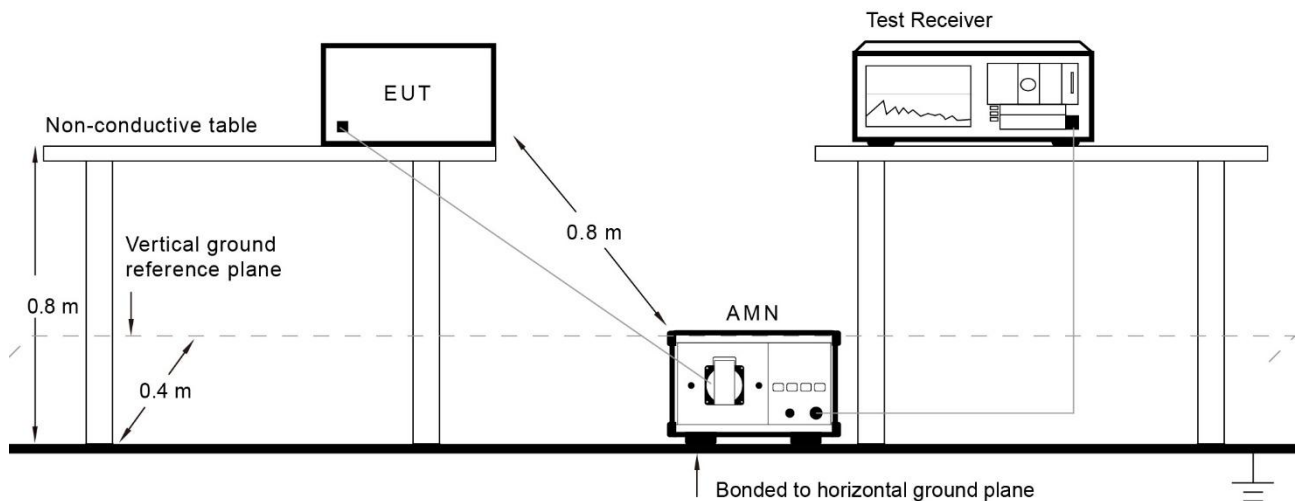
5.2.1. Test Limit

FCC Part 15.107 / ICES-003 Issue 7 - 3.2.1				
Frequency (MHz)	Class A Limits		Class B Limits	
	QP (dB μ V)	AV (dB μ V)	QP (dB μ V)	AV (dB μ V)
0.15 - 0.50	79	66	66 ~ 56	56 ~ 46
0.50 - 5.0	73	60	56	46
5.0 - 30	73	60	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

5.2.2. Test Setup



5.2.3. Test Result

The EUT is powered by a battery-powered test fixture, therefore, this item is not applicable.

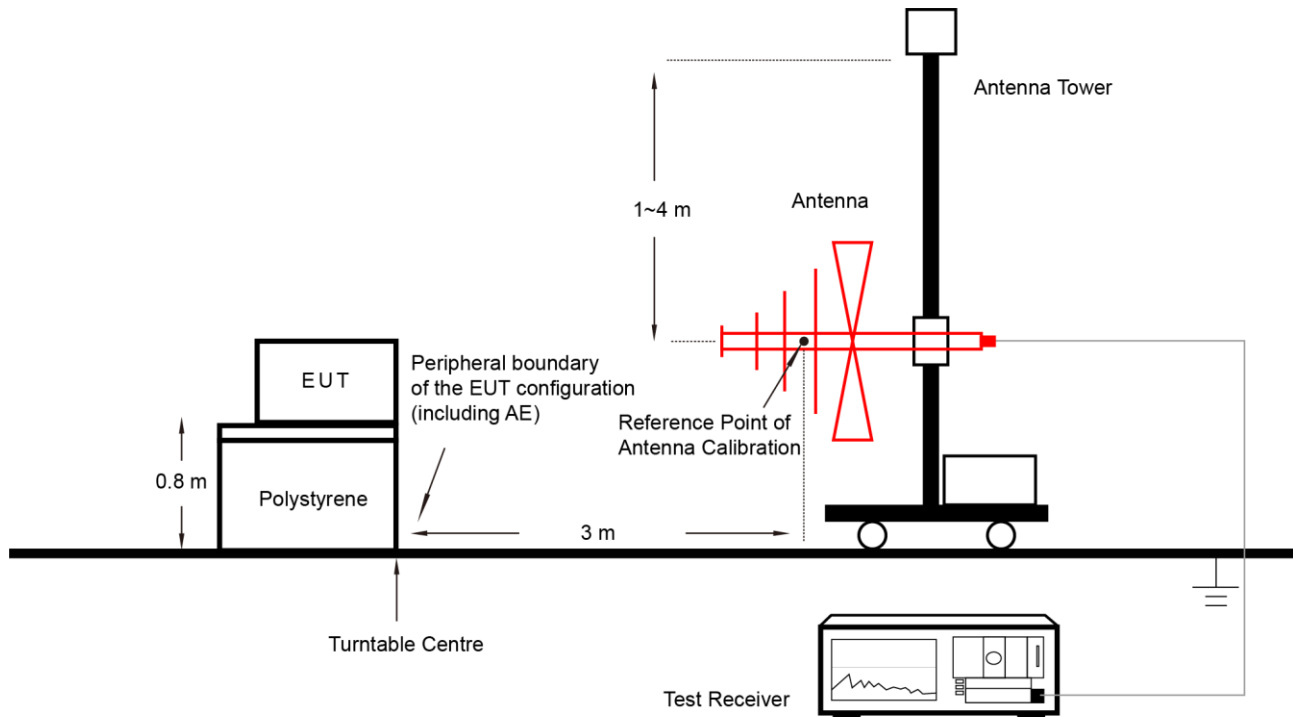
5.3. Radiated Emission

5.3.1. Test Limit

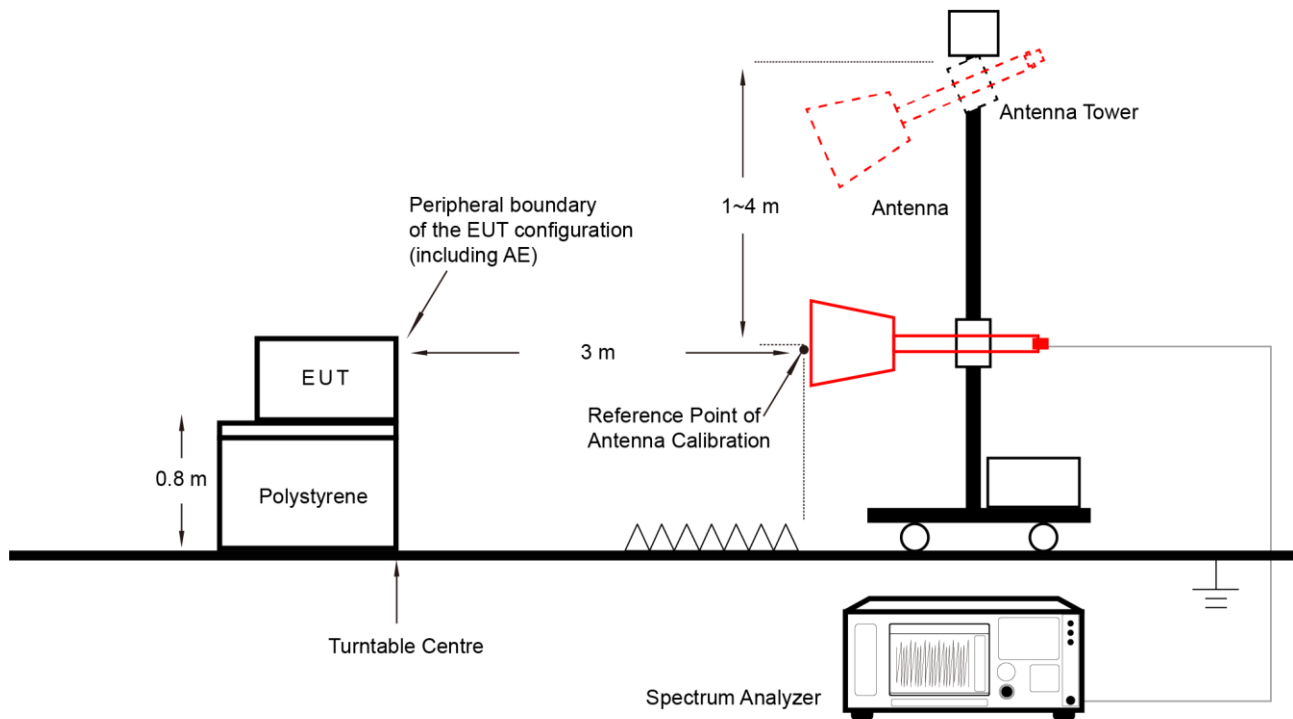
FCC Part 15.109 Limits					
Frequency Range (MHz)	Class A (dB μ V/m)		Class B (dB μ V/m)		Detector Function
	3 meters	10 meters	3 meters	10 meters	
30 - 88	49.0	39.0	40.0	30.0	Quasi-peak
88 - 216	53.5	43.5	43.5	33.5	Quasi-peak
216 - 960	56.4	46.4	46.0	36.0	Quasi-peak
960 - 1000	59.5	49.5	54.0	44.0	Quasi-peak
Above 1000	59.5	49.5	54.0	44.0	Average
	79.5	69.5	74.0	64.0	Peak
ICES-003 Issue 7 - 3.2.2 Limits					
Frequency Range (MHz)	Class A (dB μ V/m)		Class B (dB μ V/m)		Detector Function
	3 meters	10 meters	3 meters	10 meters	
30 - 88	50.0	40.0	40.0	30.0	Quasi-peak
88 - 216	54.0	43.5	43.5	33.1	Quasi-peak
216 - 230	56.9	46.4	46.0	35.6	Quasi-peak
230 - 960	57.0	47.0	47.0	37.0	Quasi-peak
960 - 1000	60.0	49.5	54.0	43.5	Quasi-peak
Above 1000	60.0	49.5	54.0	43.5	Average
	80.0	69.5	74.0	63.5	Peak
Note 1: The lower limit shall apply at the transition frequency. Note 2: Distance refers to the distance (in meters) between the antenna of the measuring instrument and the closest point of any part of the device or system. Note 3: The limit specified in FCC Part 15.109 is more stringent than that in ICES-003 Issue 7; therefore, only the FCC Part 15.109 limit is presented in the test data.					

5.3.2. Test Setup

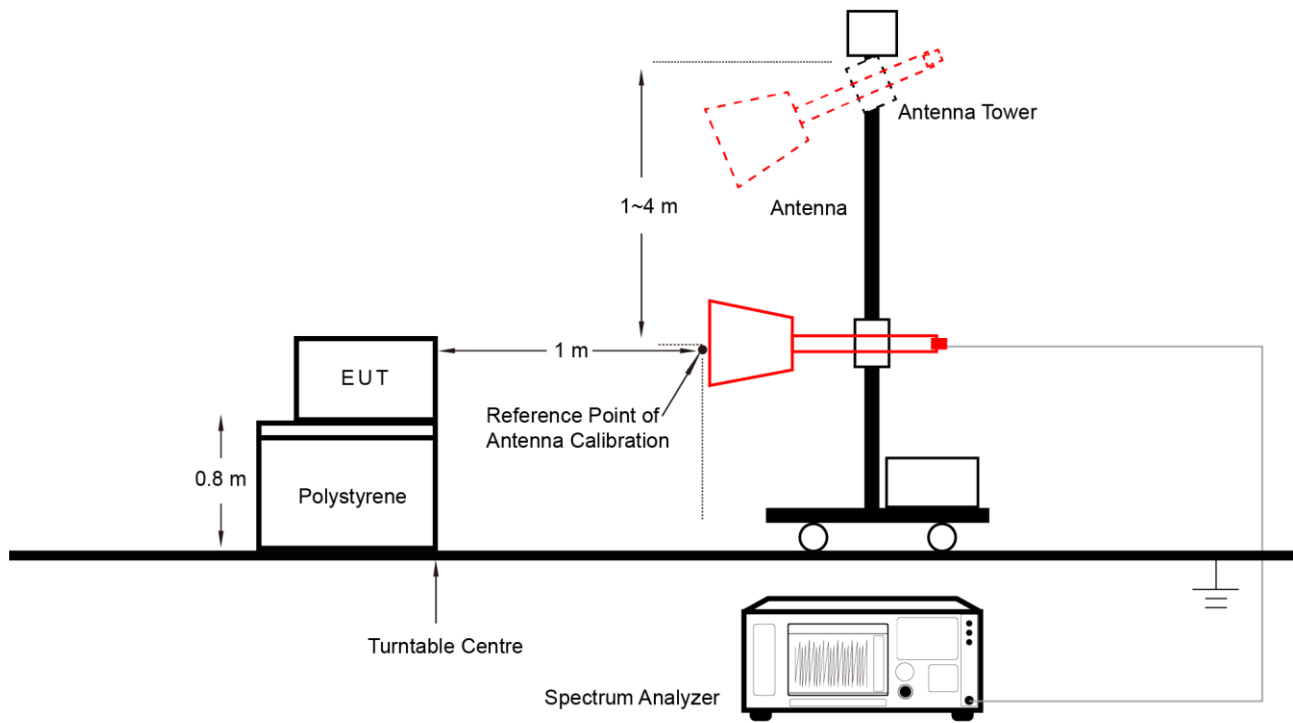
Below 1 GHz Test Setup:



Above 1 GHz Test Setup:

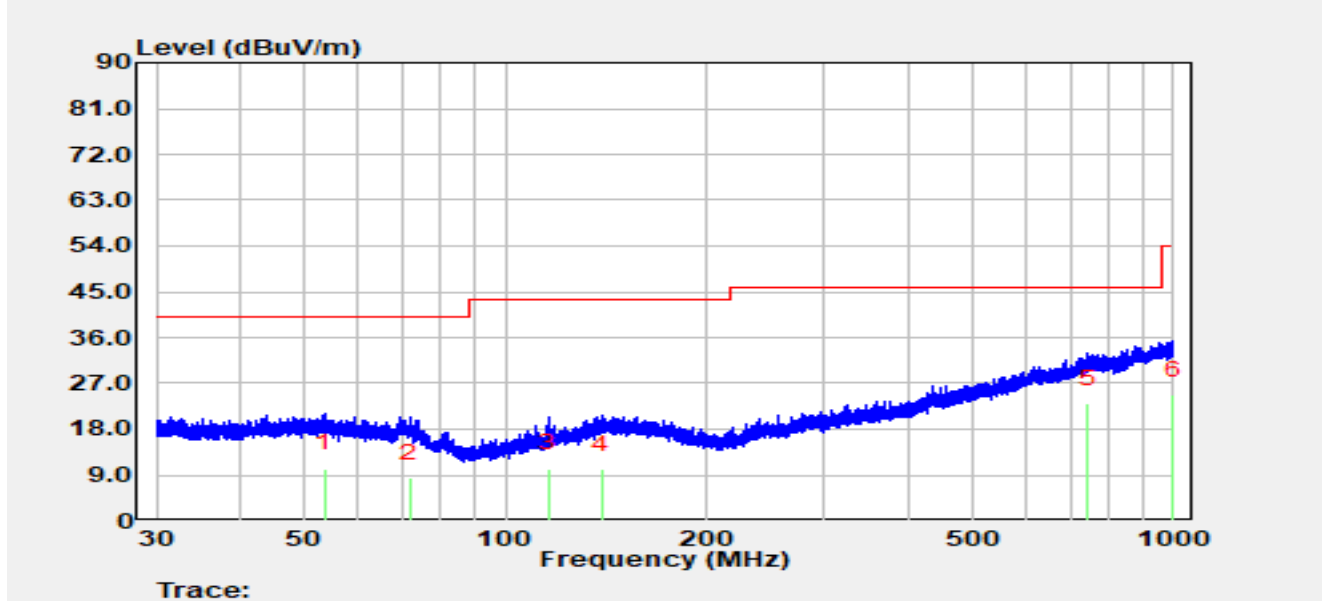


Above 18 GHz Test Setup:



5.3.3. Test Result

Site	SIP-AC2	Test Date	2026-09-02
Temperature	20.1 °C	Humidity	60.8%
Limit	FCC_Part 15.109_RE(3 m)_Class B	Test Engineer	Evan Xu
Test Voltage	DC 3.3 V	Polarity	Horizontal
Test Mode	Mode 1		

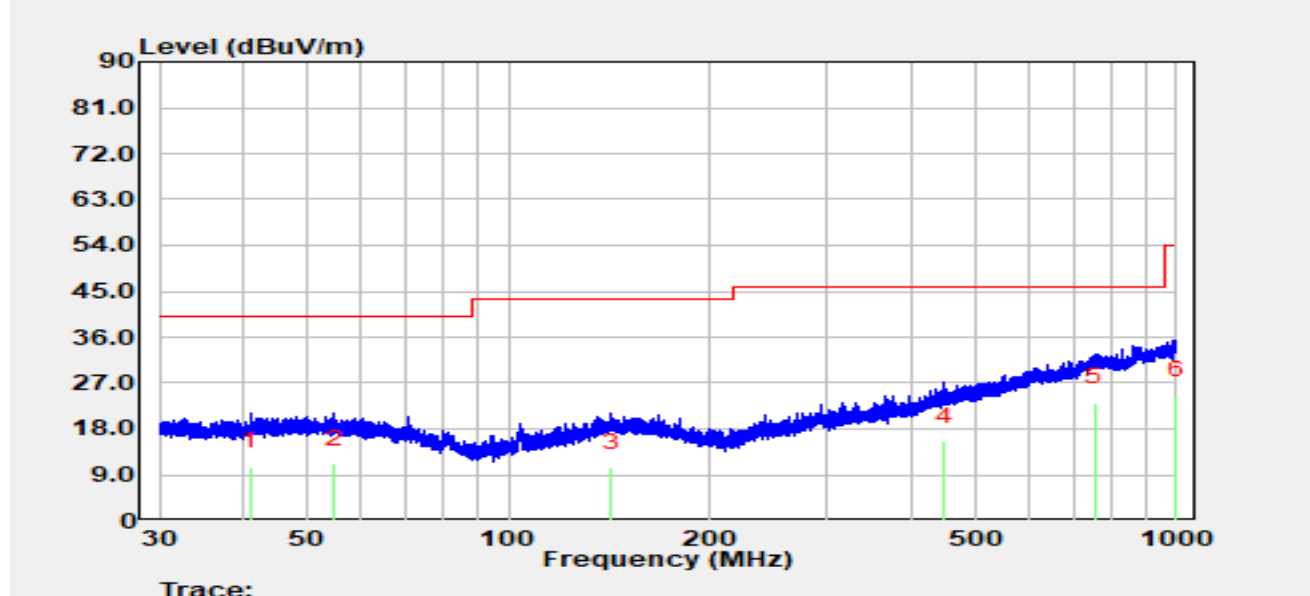


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		53.449	-9.40	19.72	10.32	-29.68	40.00	QP
2		71.983	-9.10	17.44	8.34	-31.66	40.00	QP
3		116.132	-6.70	17.06	10.36	-33.14	43.50	QP
4		139.264	-9.20	19.32	10.12	-33.38	43.50	QP
5	*	745.389	-7.30	30.35	23.05	-22.95	46.00	QP
6		998.949	-7.80	32.52	24.72	-29.28	54.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2026-09-02
Temperature	20.1 °C	Humidity	60.8%
Limit	FCC_Part 15.109_RE(3 m)_Class B	Test Engineer	Evan Xu
Test Voltage	DC 3.3 V	Polarity	Vertical
Test Mode	Mode 1		

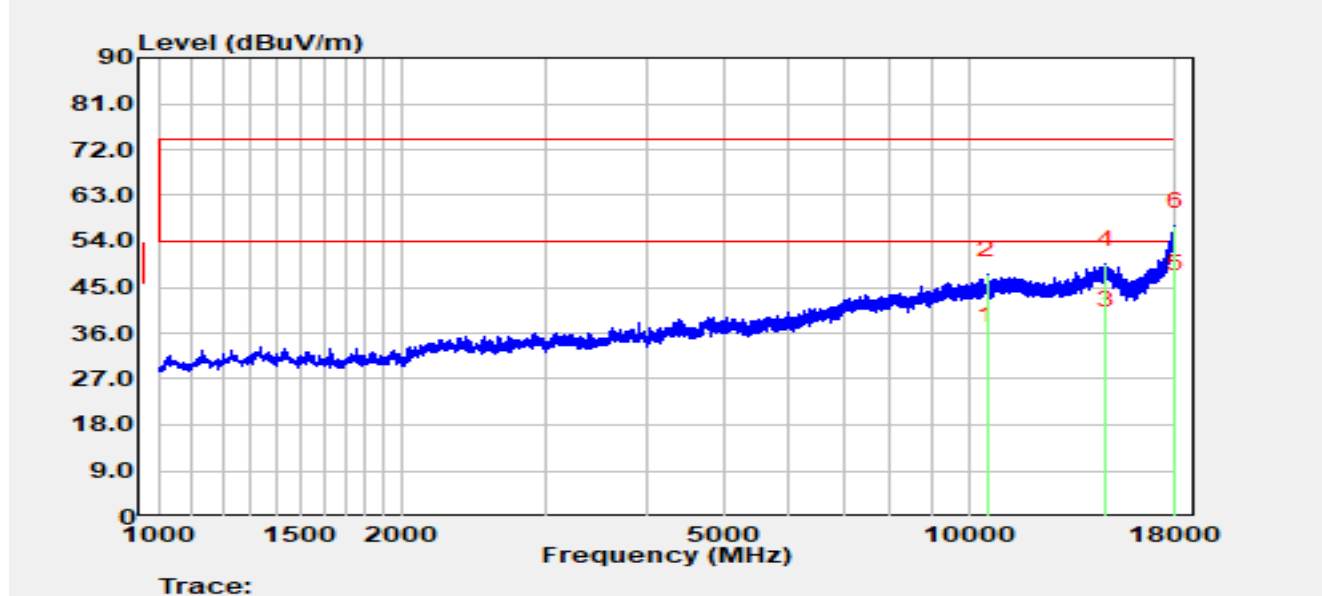


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		41.031	-8.70	19.37	10.67	-29.33	40.00	QP
2		54.835	-8.50	19.65	11.15	-28.85	40.00	QP
3		142.574	-9.10	19.61	10.51	-32.99	43.50	QP
4		448.611	-8.60	24.22	15.62	-30.38	46.00	QP
5	*	754.329	-7.40	30.61	23.21	-22.79	46.00	QP
6		997.199	-7.90	32.50	24.60	-29.40	54.00	QP

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2026-09-01
Temperature	21.3 °C	Humidity	62.1%
Limit	FCC_Part 15.109_RE(3 m)_Class B	Test Engineer	Evan Xu
Test Voltage	DC 3.3 V	Polarity	Horizontal
Test Mode	Mode 1		

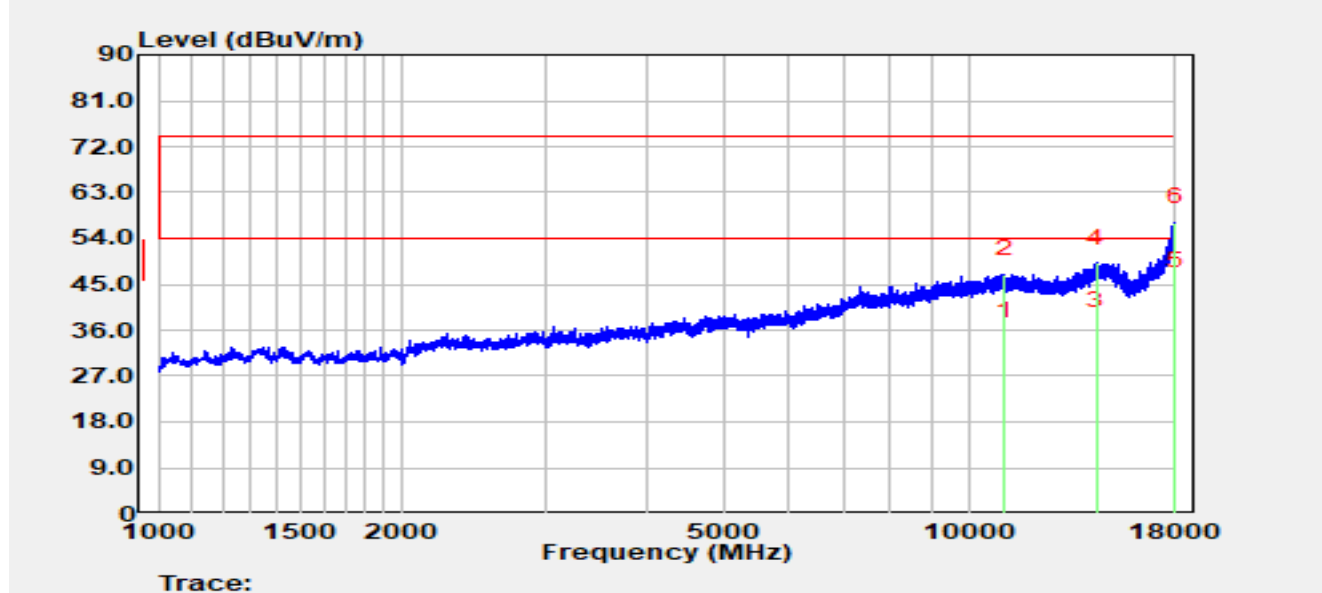


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		10547.200	34.36	0.14	34.50	-19.50	54.00	Average
2		10547.200	47.27	0.14	47.41	-26.59	74.00	Peak
3		14783.600	31.23	6.14	37.37	-16.63	54.00	Average
4		14783.600	43.36	6.14	49.51	-24.49	74.00	Peak
5	*	17984.700	29.36	15.23	44.59	-9.41	54.00	Average
6		17984.700	41.77	15.23	57.00	-17.00	74.00	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The points (5,6) close to 18GHz are environment noise floor.

Site	SIP-AC2	Test Date	2026-09-01
Temperature	21.3 °C	Humidity	62.1%
Limit	FCC_Part 15.109_RE(3 m)_Class B	Test Engineer	Evan Xu
Test Voltage	DC 3.3 V	Polarity	Vertical
Test Mode	Mode 1		

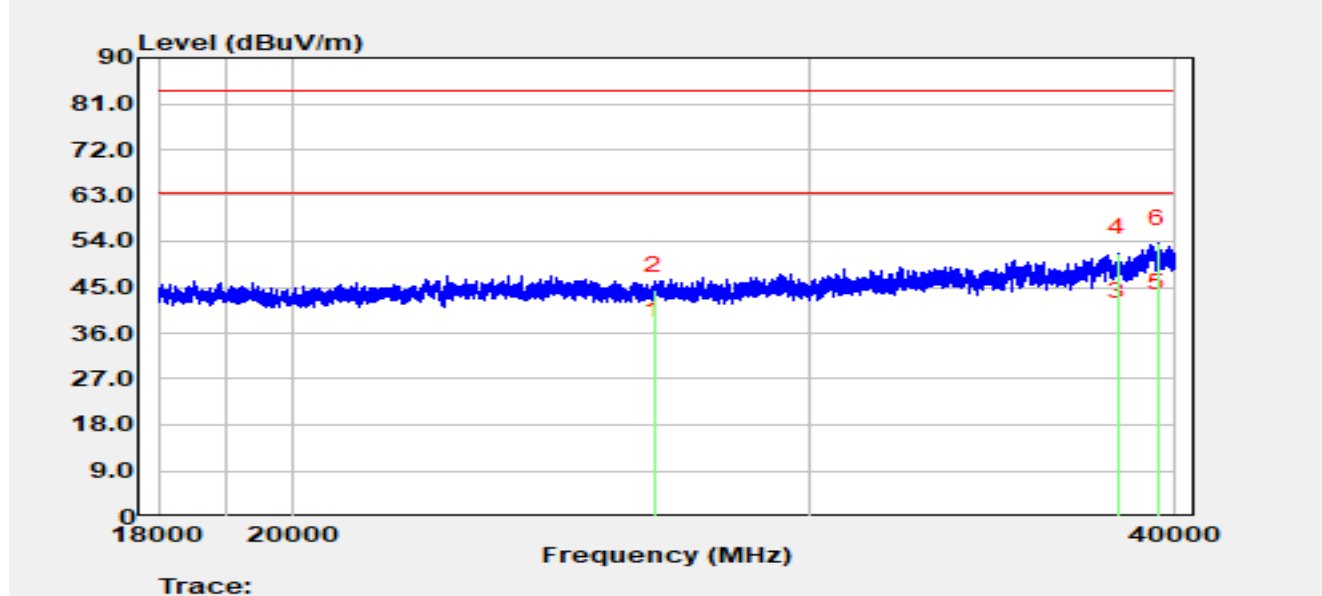


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		11098.000	33.79	1.19	34.98	-19.02	54.00	Average
2		11098.000	45.71	1.19	46.90	-27.10	74.00	Peak
3		14379.000	31.62	5.17	36.79	-17.21	54.00	Average
4		14379.000	43.93	5.17	49.10	-24.90	74.00	Peak
5	*	17991.500	29.37	15.27	44.64	-9.36	54.00	Average
6		17991.500	41.90	15.27	57.17	-16.83	74.00	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).
- The points (5,6) close to 18GHz are environment noise floor.

Site	SIP-AC2	Test Date	2026-09-02
Temperature	20.1 °C	Humidity	60.8%
Limit	FCC_Part 15.109_RE(1 m)_Class B	Test Engineer	Evan Xu
Test Voltage	DC 3.3 V	Polarity	Horizontal
Test Mode	Mode 1		

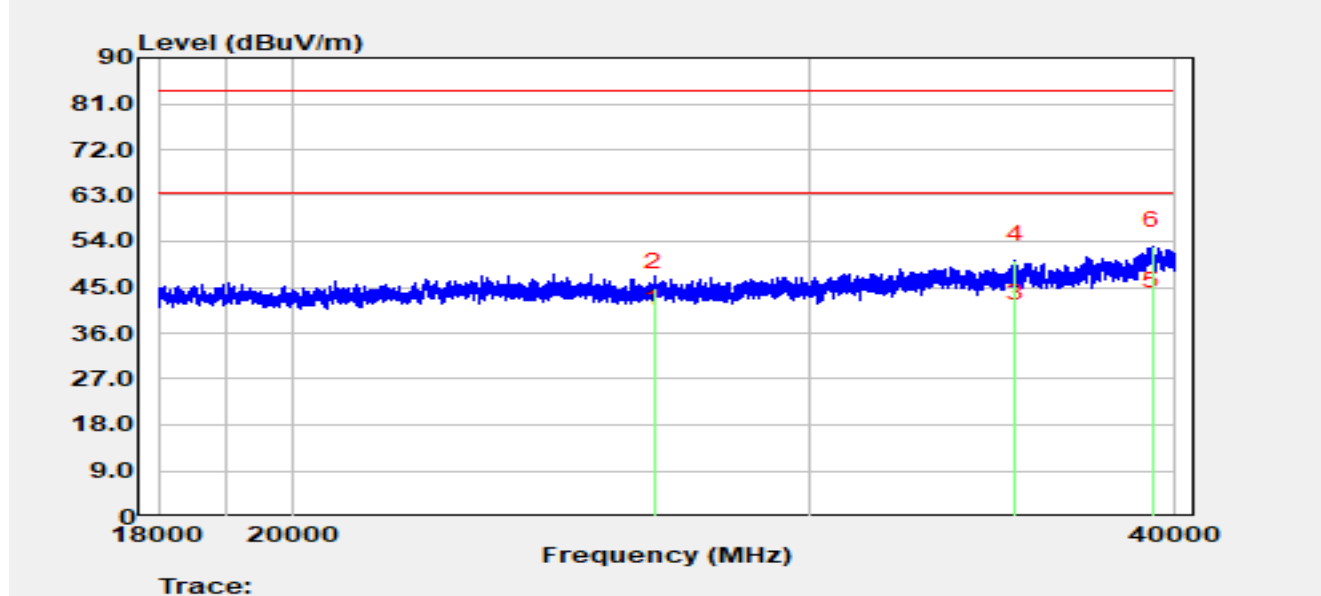


No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		26562.000	38.66	-3.11	35.55	-27.95	63.50	Average
2		26562.000	47.58	-3.11	44.46	-39.04	83.50	Peak
3		38240.000	35.26	3.89	39.15	-24.35	63.50	Average
4		38240.000	47.89	3.89	51.78	-31.72	83.50	Peak
5	*	39469.800	34.11	6.88	40.99	-22.51	63.50	Average
6		39469.800	46.64	6.88	53.51	-29.99	83.50	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Site	SIP-AC2	Test Date	2026-09-02
Temperature	20.1 °C	Humidity	60.8%
Limit	FCC_Part 15.109_RE(1 m)_Class B	Test Engineer	Evan Xu
Test Voltage	DC 3.3 V	Polarity	Vertical
Test Mode	Mode 1		



No	Mark	Frequency (MHz)	Reading (dBμV)	C.F (dB/m)	Measurement (dBμV/m)	Margin (dB)	Limit (dBμV/m)	Detector
1		26562.000	40.92	-3.11	37.81	-25.69	63.50	Average
2		26562.000	47.98	-3.11	44.87	-38.63	83.50	Peak
3		35270.000	38.77	-0.05	38.72	-24.78	63.50	Average
4		35270.000	50.48	-0.05	50.43	-33.07	83.50	Peak
5	*	39269.600	34.54	6.81	41.35	-22.15	63.50	Average
6		39269.600	46.22	6.81	53.04	-30.46	83.50	Peak

Notes:

- "*" indicates the worst-case emission level observed during the measurement.
- C.F (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - AMP (dB).
- Measurement (dBμV/m) = Reading (dBμV) + C.F (dB/m).

Appendix A - Test Setup Photograph

Refer to “E26S1014092-UT” file.

Appendix B - EUT Photograph

Refer to “E26S1014092-UE” file.

_____ The End _____