



RADIO TEST REPORT

FCC ID : 2A95ZPCKPRO

Equipment : FX Pocket Chronograph Pro

Brand Name : FX Airguns

Model Name : FX Pocket Chronograph Pro

Applicant : EXC Taiwan Co Ltd
No 8-9, Xinhe Rd, Daya District, Taichung City 40863, Taiwan

Manufacturer : EXC Taiwan Co Ltd
No 8-9, Xinhe Rd, Daya District, Taichung City 40863, Taiwan

Standard : 47 CFR FCC Part 15.245

The product was received on May 04, 2026, and testing was started from May 14, 2026 and completed on May 28, 2026. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.


Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 Information.....	5
1.2 Applicable Standards	7
1.3 Testing Location Information	7
1.4 Measurement Uncertainty	7
2 Test Configuration of Equipment under Test.....	8
2.1 Parameters of Test Software Setting	8
2.2 Conformance Tests and Related Test Frequencies.....	8
2.3 EUT Operation during Test	9
2.4 Accessories	9
2.5 Support Equipment.....	9
2.6 EUT Setups	10
3 Transmitter Test Result	13
3.1 AC Power Conducted Emissions	13
3.2 Occupied Bandwidth	18
3.3 Field Strength of Fundamental	23
3.4 Transmitter Spurious Emissions.....	31
3.5 Antenna Requirements.....	53
4 Test Equipment and Calibration Data	54

Appendix A. Test Photos

Photographs of EUT v01



TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A8_1 Ver1.3



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.207	AC Power Conducted Emissions	PASS	-
3.2	15.215(c)	Occupied Bandwidth	PASS	-
3.3	15.245(b)	Field Strength of Fundamental	PASS	-
3.4	15.245(b)	Transmitter Spurious Emissions	PASS	-
3.5	15.203	Antenna Requirements	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Sophia Shiung



1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information				
Frequency Range	24.075 - 24.175 GHz			
Operation Frequency	Ch.	Frequency (GHz)	Ch.	Frequency (GHz)
	1	24.08	7	24.128
	2	24.088	8	24.136
	3	24.096	9	24.144
	4	24.104	10	24.152
	5	24.112	11	24.16
	6	24.12	12	24.168
Test Frequency	24080 MHz, 24128 MHz, 24168 MHz			
Channel Number	12			
Modulation	CW			

Note: The above information was declared by manufacturer.

1.1.2 Antenna Information

Ant.	Port		Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
	24GHz	Bluetooth					24GHz	Bluetooth
1	1	-	Viasion	EXC-RADAR-ANT-01	PCB	N/A	14.876	-
2	-	1	Viasion	EXC-BT-ANT-01	PCB	N/A	-	0

Note 1: The above information was declared by manufacturer.

Note 2: **For 24GHz function (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

For Bluetooth function (1TX/1RX):

Only Port 1 can be used as transmitting/receiving antenna.

**1.1.3 Field Strength of Fundamental**

Field Strength of Fundamental							
Applicable power levels:	☐ Conducted ☐ EIRP ☒ Field Strength at 3m						
Frequency	Highest setting (P_{high}): (dBuV/m)						
	Power Setting	Modulation	Data Rate (Mb/s)	Average Level	Peak Level	Average Level Limit	Peak Level Limit
24080 MHz	Default	CW	N/A	96.15	96.63	128.00	148.00
24128 MHz	Default	CW	N/A	96.31	96.50	128.00	148.00
24168 MHz	Default	CW	N/A	95.35	96.51	128.00	148.00

Note: Field Strength of Fundamental = measurement level at 1m - distance extrapolation factor [9.54 dB].

1.1.4 Duty Cycle

On Time (ms)	On+Off Time (ms)	Duty Cycle (%)	Duty Factor (dB)	1/T Minimum VBW (kHz)
100.000	100.000	100.00%	0.00	0.01

1.1.5 EUT Operational Condition

EUT Power Type	Power from battery
Test Software Version	Default

Note: The above information was declared by manufacturer.



1.2 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.10-2020
- ♦ 47 CFR FCC Part 15.245

The following reference test guidance is not within the scope of accreditation of TAF.

- ♦ FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISCED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated < 1GHz	03CH03-CB	George Fan	23.5~24.1 / 62~65	May 26, 2026~ May 27, 2026
Radiated > 1GHz	03CH01-CB	Sean Ku	23.7~24.4 / 57~60	May 14, 2026~ May 19, 2026
AC Conduction	CO01-CB	Ryan Huang	21~22 / 58~59	May 28, 2026

1.4 Measurement Uncertainty

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.8 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (40GHz ~ 60GHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (60GHz ~ 90GHz)	3.2 dB	Confidence levels of 95%
Radiated Emission (90GHz ~ 200GHz)	3.1 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%

2 Test Configuration of Equipment under Test

2.1 Parameters of Test Software Setting

Software Setting	
Test Frequencies	24080 MHz, 24128 MHz, 24168 MHz
Software Setting	Default

2.2 Conformance Tests and Related Test Frequencies

Test	Test Frequencies
AC Power Conducted Emissions Test Voltage: 120Vac / 60Hz	Random
Emission Bandwidth	24080 MHz, 24128 MHz, 24168 MHz
Field Strength of Fundamental	24080 MHz, 24128 MHz, 24168 MHz
Transmitter Spurious Emissions < 1GHz	Random
Transmitter Spurious Emissions > 1GHz	24080 MHz, 24128 MHz, 24168 MHz

For AC Power Conducted Emissions (Operating Mode: Normal Link)

Mode 1. EUT with charging mode + Adapter

2. EUT with charging mode + Host

For operating, mode 1 is the worst case and it was recorded in this test report.

For Transmitter Spurious Emissions < 1GHz (Operating Mode: Normal Link)

The EUT was performed at X axis, Y axis and Z axis position. The X axis has been evaluated to be the worst case; thus, the measurement will follow this same test mode.

Mode 1. EUT in X axis + BT

2. EUT in X axis + 24G

3. EUT in X axis with charging mode + Adapter

4. EUT in X axis with charging mode + Host

For operating, mode 4 is the worst case and it was recorded in this test report.

**For Transmitter Spurious Emissions > 1GHz (Operating Mode: CTX)**

The EUT was performed at X axis, Y axis and Z axis position. The X axis has been evaluated to be the worst case; thus, the measurement will follow this same test mode.

Mode 1. EUT in X axis + 24G (24080 MHz)

2. EUT in X axis + 24G (24128 MHz)

3. EUT in X axis + 24G (24168 MHz)

Note: The Adapter was for measurement only and would not be marketed. Its information is shown as below:

Equipment	Brand Name	Model Name
Adapter	Haihongwei	HP-050200A1-3C

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories
USB Cable*1: Non-shielded, 1m
Tripod*1
Mount arm*1

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Adapter	Haihongwei	HP-050200A1-3C	N/A

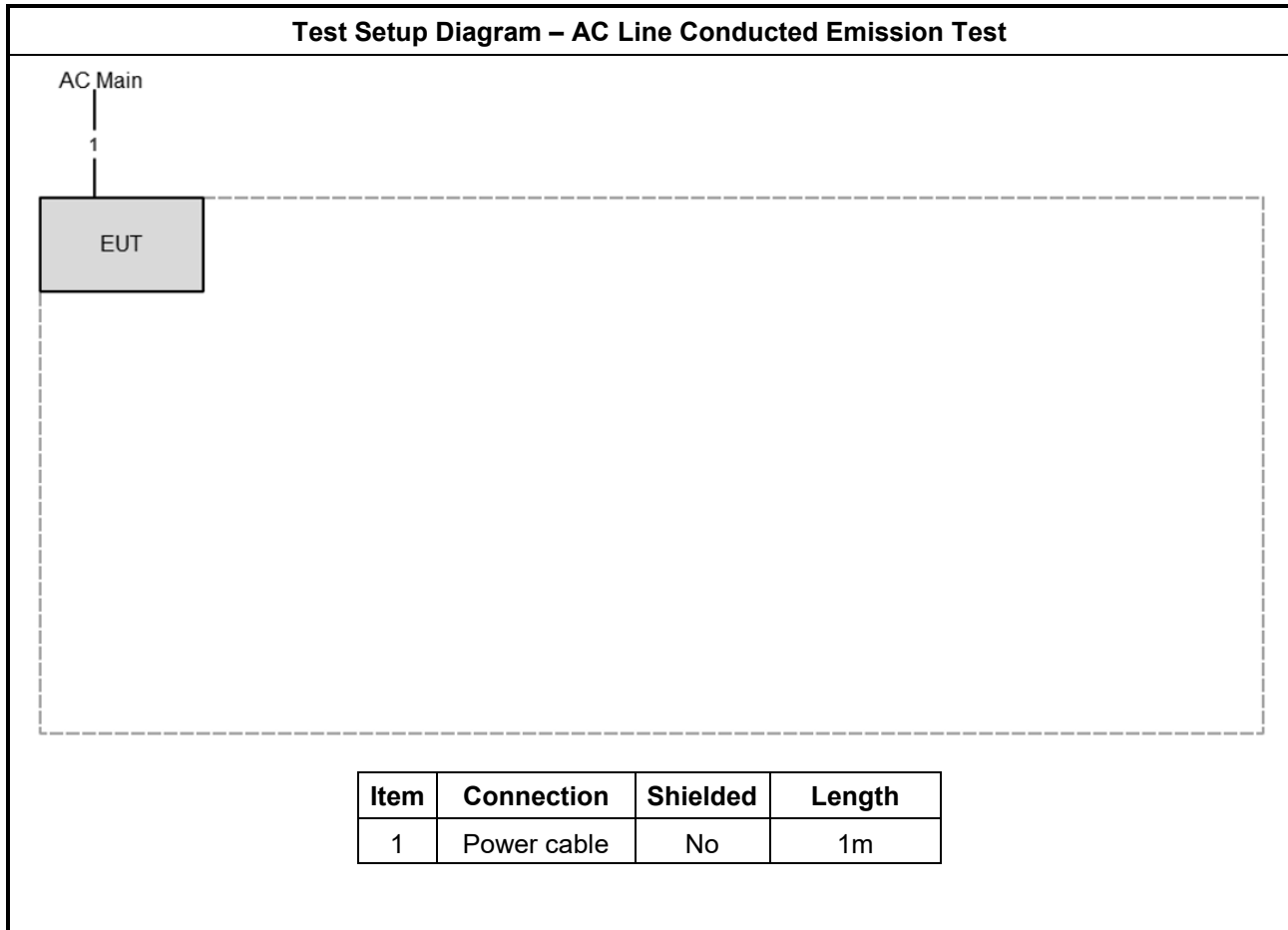
For Radiated < 1GHz:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	NB	DELL	E4300	N/A

For Radiated > 1GHz:

N/A

2.6 EUT Setups



**Test Setup Diagram - Radiated Test < 1GHz**

AC MAIN

2

A

1

EUT

Item	Connection	Shielded	Length
1	USB cable	Yes	1m
2	Power cable	No	1.5m



Test Setup Diagram - Radiated Test > 1GHz

EUT



3 Transmitter Test Result

3.1 AC Power Conducted Emissions

3.1.1 Limit of AC Power Conducted Emissions

AC Power Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note: * Decreases with the logarithm of the frequency.		

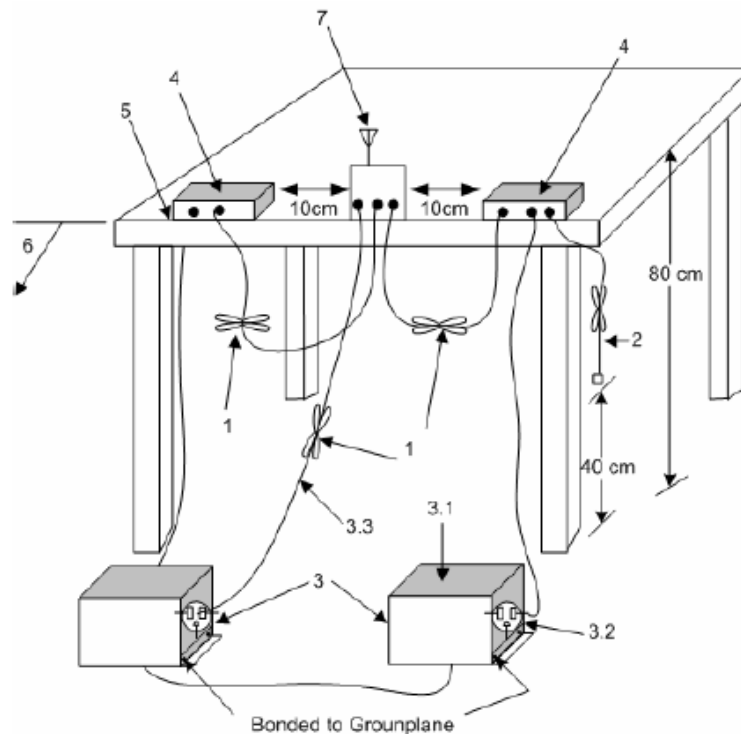
3.1.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.1.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2020, clause 6.2.

3.1.4 Test Setup



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.

2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.

3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.

3.1—All other equipment powered from additional LISN(s).

3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.

3.3—LISN at least 80 cm from nearest part of EUT chassis.

4—Non-EUT components of EUT system being tested.

5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.

6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level

b. Margin = -Limit + Level



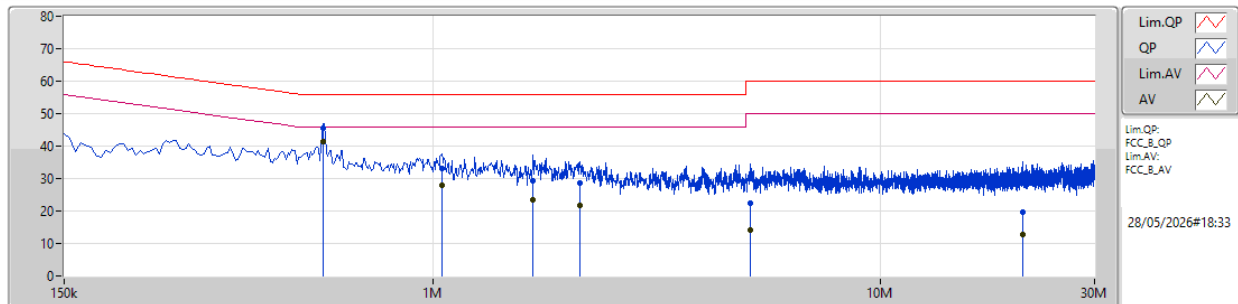
3.1.6 Test Result of AC Power Conducted Emissions

Test Conditions:	see ANSI C63.10, clause 5.11
Test Setup:	see ANSI C63.10, clause 6.2.3
Note 1: If equipment having different channel plan and nominal channel bandwidth modes, the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes. If equipment having different transmit operating modes, the measurements are uninfluenced by different transmit operating modes, may not need to be repeated for all the operating modes. Similar, if the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.12 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing. Note 2: ">20dB" means the tables in this clause should only list values of spurious emissions that exceed the level of 20 dB below the applicable limit, see ANSI C63.4, clause 10.1.8.1.	



Phase	Line	Configuration	Normal Link
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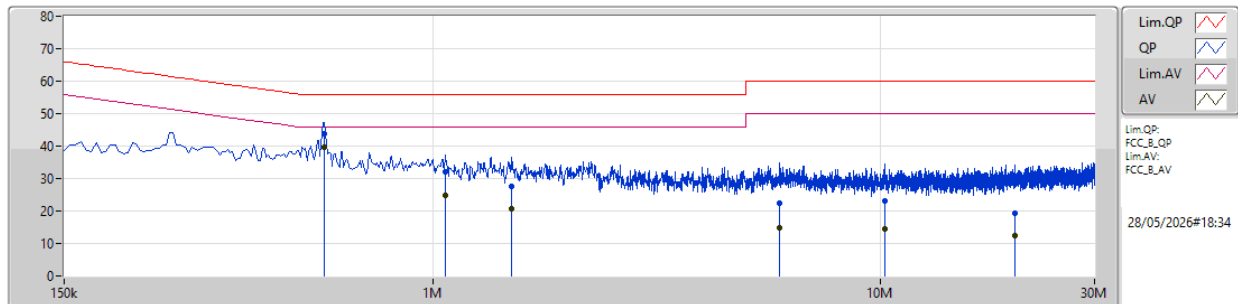
Mode 1



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	568.5k	45.50	56.00	-10.50	10.21	Line	-	35.29	0.18	0.13	9.90						
AV	568.5k	41.28	46.00	-4.72	10.21	Line	"Worst"	31.07	0.18	0.13	9.90						
QP	1.046M	33.15	56.00	-22.85	10.23	Line	-	22.92	0.20	0.15	9.88						
AV	1.046M	27.98	46.00	-18.02	10.23	Line	-	17.75	0.20	0.15	9.88						
QP	1.671M	29.19	56.00	-26.81	10.15	Line	-	19.04	0.23	0.14	9.78						
AV	1.671M	23.36	46.00	-22.64	10.15	Line	-	13.21	0.23	0.14	9.78						
QP	2.126M	28.78	56.00	-27.22	10.13	Line	-	18.65	0.25	0.14	9.74						
AV	2.126M	21.57	46.00	-24.43	10.13	Line	-	11.44	0.25	0.14	9.74						
QP	5.1M	22.48	60.00	-37.52	10.39	Line	-	12.09	0.37	0.17	9.85						
AV	5.1M	14.24	50.00	-35.76	10.39	Line	-	3.85	0.37	0.17	9.85						
QP	20.729M	19.64	60.00	-40.36	11.69	Line	-	7.95	0.98	0.35	10.36						
AV	20.729M	12.75	50.00	-37.25	11.69	Line	-	1.06	0.98	0.35	10.36						



Phase	Neutral	Configuration	Normal Link
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Mode 1

Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)						
QP	573k	43.96	56.00	-12.04	10.18	Neutral	-	33.78	0.15	0.13	9.90						
AV	573k	39.67	46.00	-6.33	10.18	Neutral	"Worst"	29.49	0.15	0.13	9.90						
QP	1.064M	32.07	56.00	-23.93	10.20	Neutral	-	21.87	0.17	0.15	9.88						
AV	1.064M	24.98	46.00	-21.02	10.20	Neutral	-	14.78	0.17	0.15	9.88						
QP	1.5M	27.55	56.00	-28.45	10.14	Neutral	-	17.41	0.20	0.14	9.80						
AV	1.5M	20.70	46.00	-25.30	10.14	Neutral	-	10.56	0.20	0.14	9.80						
QP	5.951M	22.30	60.00	-37.70	10.49	Neutral	-	11.81	0.38	0.20	9.91						
AV	5.951M	14.91	50.00	-35.09	10.49	Neutral	-	4.42	0.38	0.20	9.91						
QP	10.194M	23.15	60.00	-36.85	10.89	Neutral	-	12.26	0.50	0.27	10.12						
AV	10.194M	14.55	50.00	-35.45	10.89	Neutral	-	3.66	0.50	0.27	10.12						
QP	19.869M	19.29	60.00	-40.71	11.50	Neutral	-	7.79	0.79	0.34	10.37						
AV	19.869M	12.52	50.00	-37.48	11.50	Neutral	-	1.02	0.79	0.34	10.37						

3.2 Occupied Bandwidth

3.2.1 Limit of Occupied Bandwidth

20dB Bandwidth (see Note 1)	None
99% Occupied Bandwidth (see Note 2)	None

Note 1: Refer as 15.215(c). Ensure that the 20 dB occupied bandwidth shall be fall in the specified operating frequency range.

Note 2: The 99% occupied bandwidth is the frequency bandwidth of the signal power at the 99% channel power of occupied bandwidth when resolution bandwidth should be approximately 1 % to 5 % of the occupied bandwidth (OBW). These measurements shall also be performed at normal test conditions.

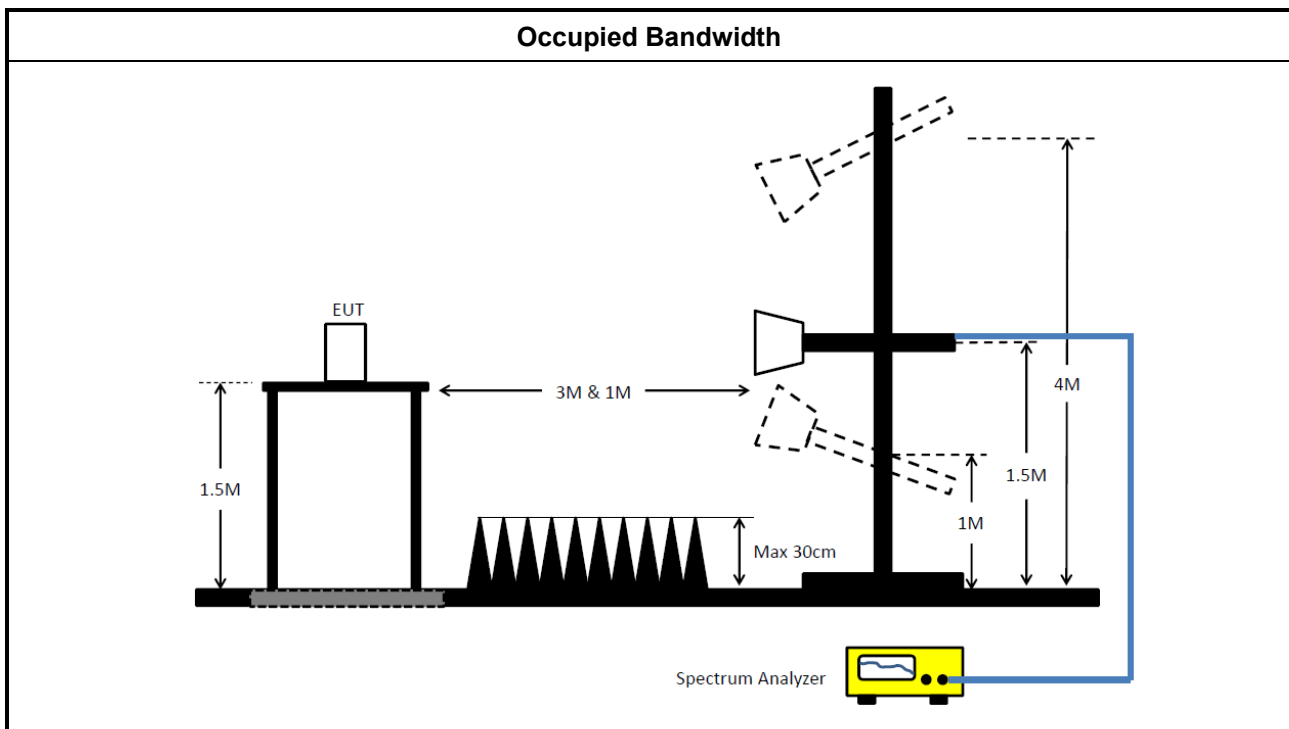
3.2.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.2.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2020, clauses 6.6 and 6.9.1.

3.2.4 Test Setup



3.2.5 Test Result of Occupied Bandwidth

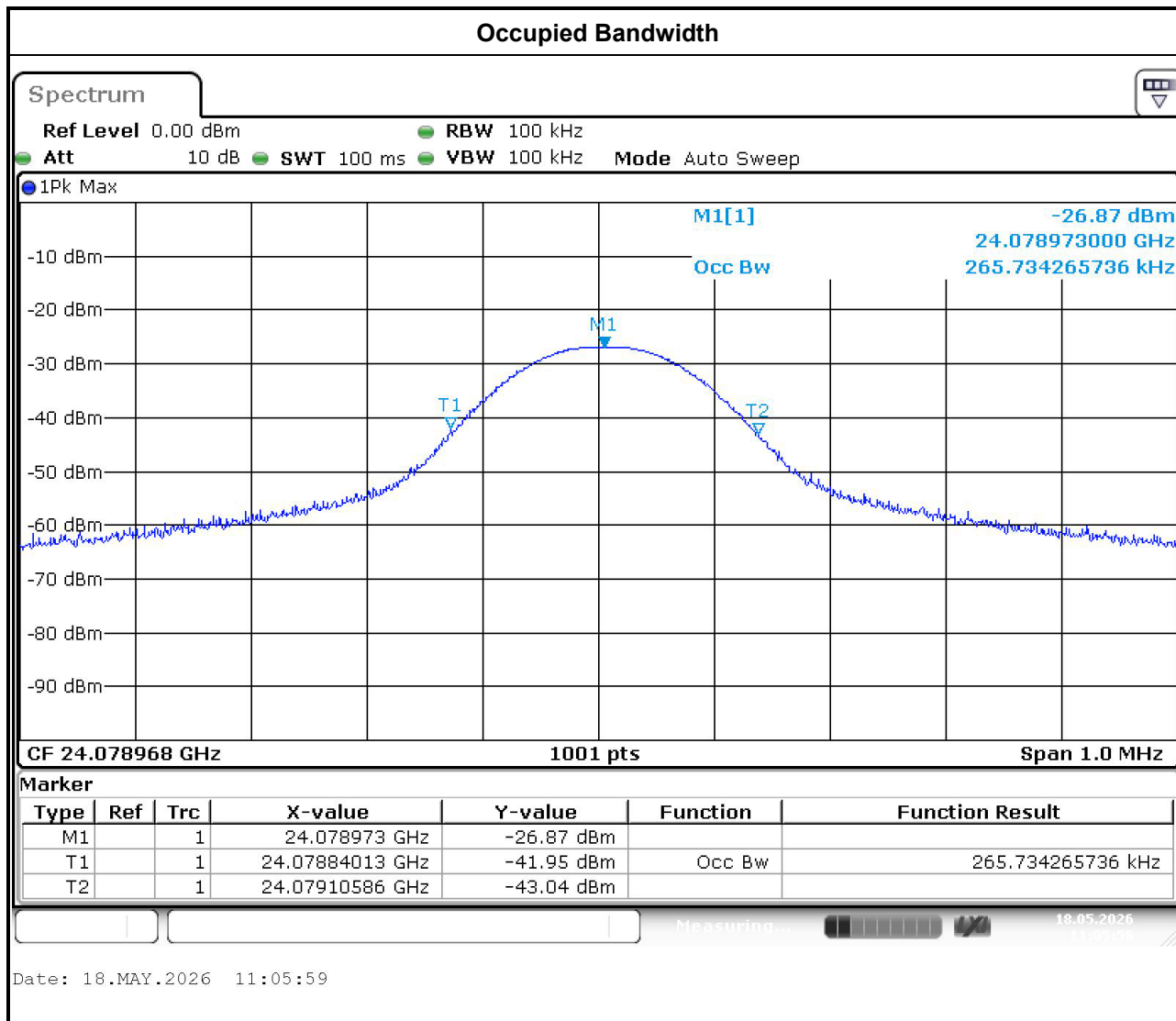
Test Conditions:	see ANSI C63.10, clause 5.11
Test Setup:	see ANSI C63.10, clause 6.6
Note: If equipment having different transmit operating modes, the measurements are uninfluenced by different transmit operating modes, may not need to be repeated for all the operating modes. Similar, if the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.12 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing. Refer as ANSI C63.10, clause 6.9.1, observe and record with plotted graphs or photographs the worst-case (i.e., widest) occupied bandwidth produced by these different modulation sources.	

Test Conditions: see ANSI C63.10, clause 5.12				
Test Frequency	Test Results			
	20dB Bandwidth (MHz)	99% Bandwidth (MHz)	Frequency range (GHz) $f_L > 24075 \text{ MHz}$	Frequency range (GHz) $f_H < 24175 \text{ MHz}$
24080 MHz	0.297	0.265	24078.8241	-
24128 MHz	0.295	0.259	-	-
24168 MHz	0.297	0.258	-	24168.1108



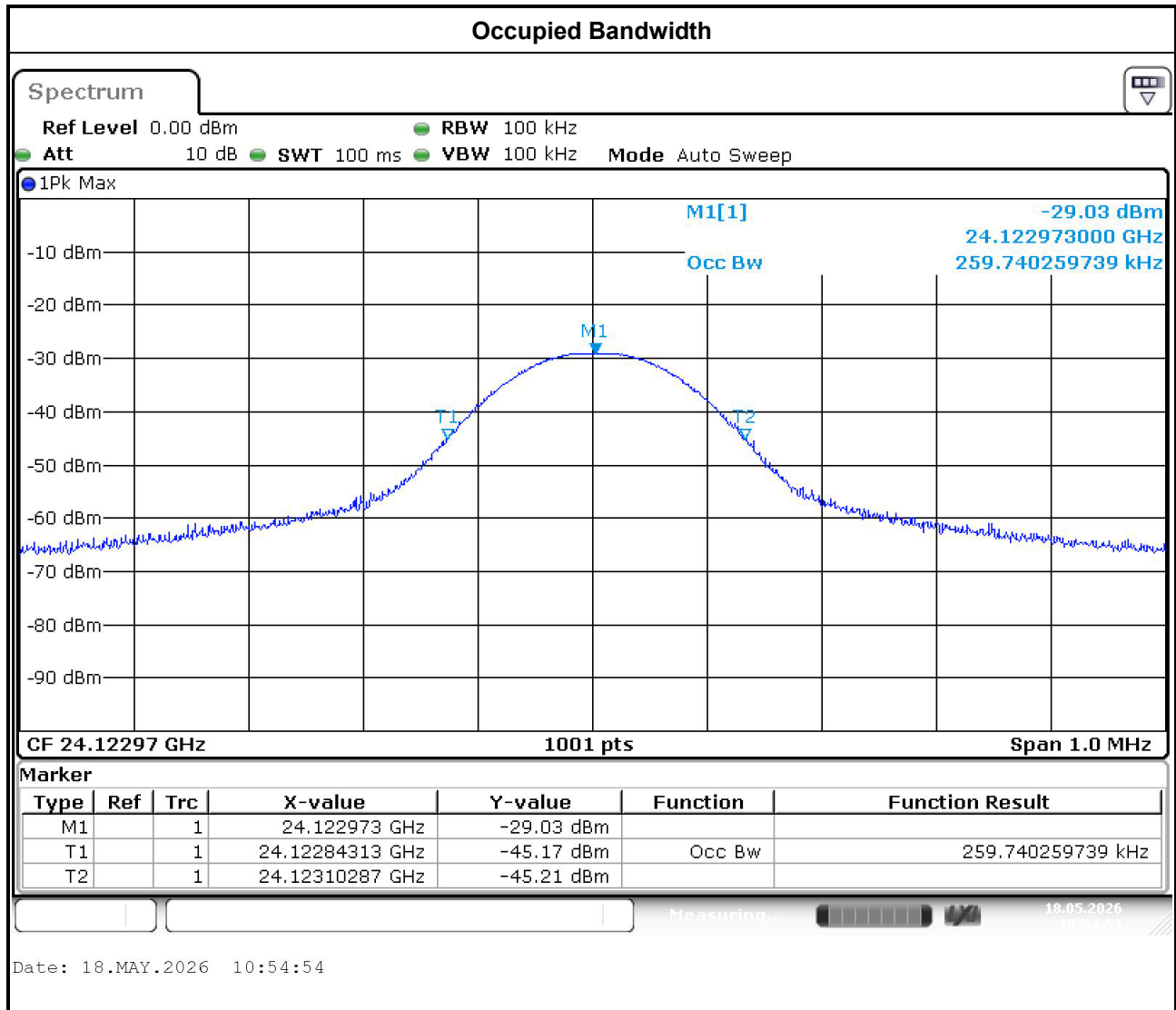
3.2.6 Occupied Bandwidth Plots

Test Frequency: 24080 MHz



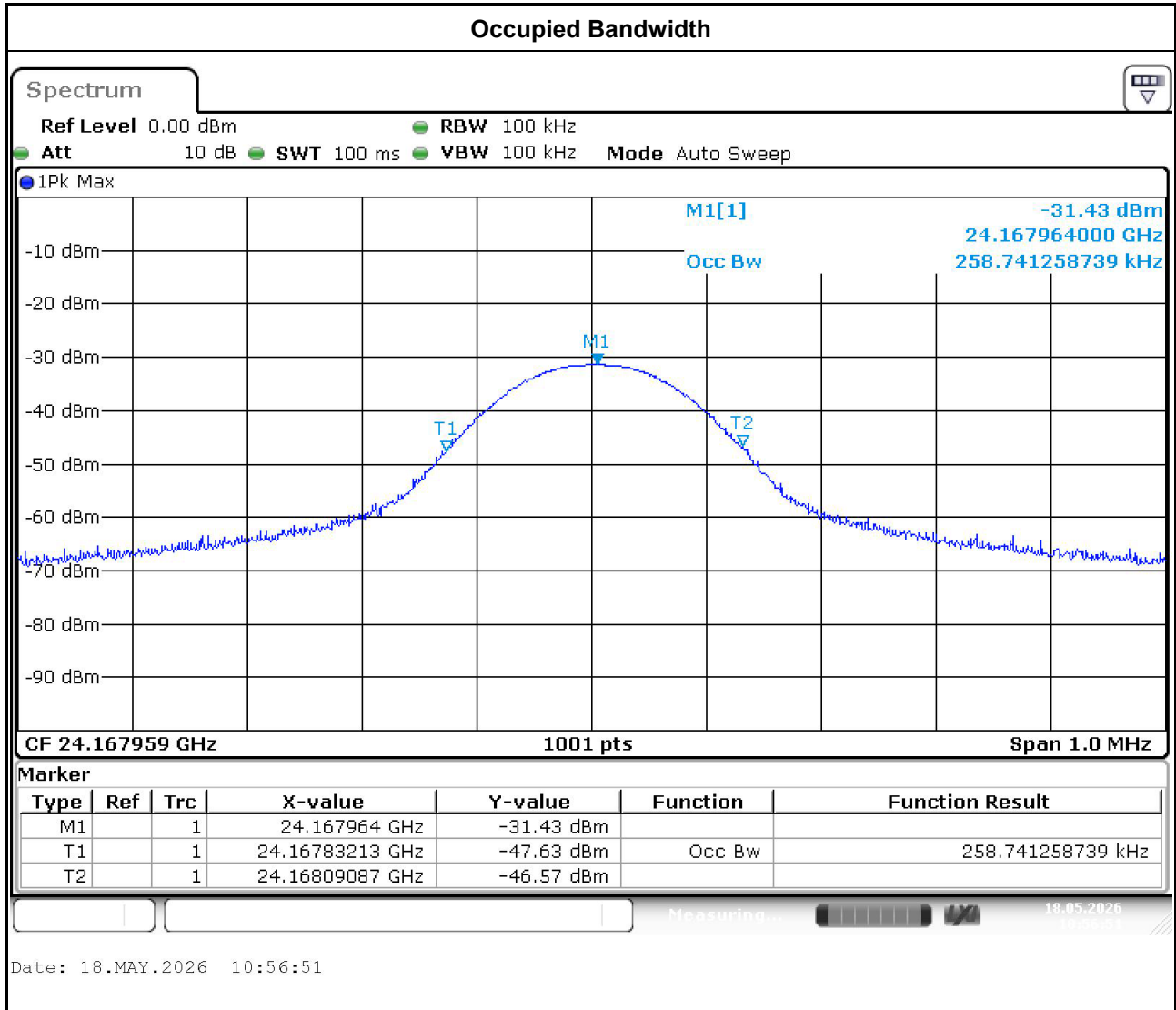


Test Frequency: 24128 MHz





Test Frequency: 24168 MHz





3.3 Field Strength of Fundamental

3.3.1 Limit of Field Strength of Fundamental

Frequencies (MHz)	Field Strength (mV/meter)	Field Strength (dBuV/m) at 3m
902~928 MHz	500 at 3m	114 (Average)
902~928 MHz	5000 at 3m	134 (Peak)
2435~2465MHz	500 at 3m	114 (Average)
2435~2465MHz	5000 at 3m	134 (Peak)
5785~5815 MHz	500 at 3m	114 (Average)
5785~5815 MHz	5000 at 3m	134 (Peak)
10.5~10.55 GHz	2500 at 3m	128 (Average)
10.5~10.55 GHz	25000 at 3m	148 (Peak)
24.075~24.175 GHz	2500 at 3m	128 (Average)
24.075~24.175 GHz	25000 at 3m	148 (Peak)

Note1: For the applicable limit, see 15.245(b)

Note2: The limit shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

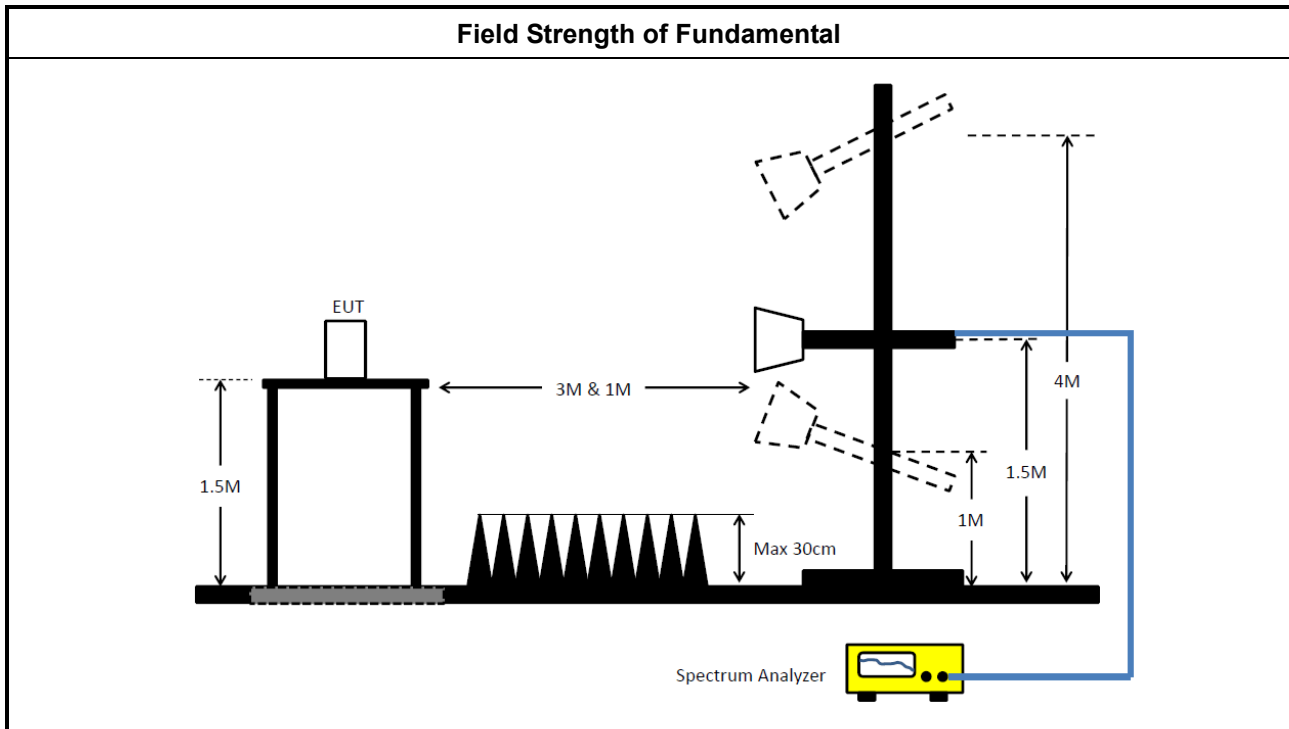
3.3.2 Measuring Instruments

Refer a measuring instruments list in this test report.

3.3.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2020, clause 6.6.

3.3.4 Test Setup



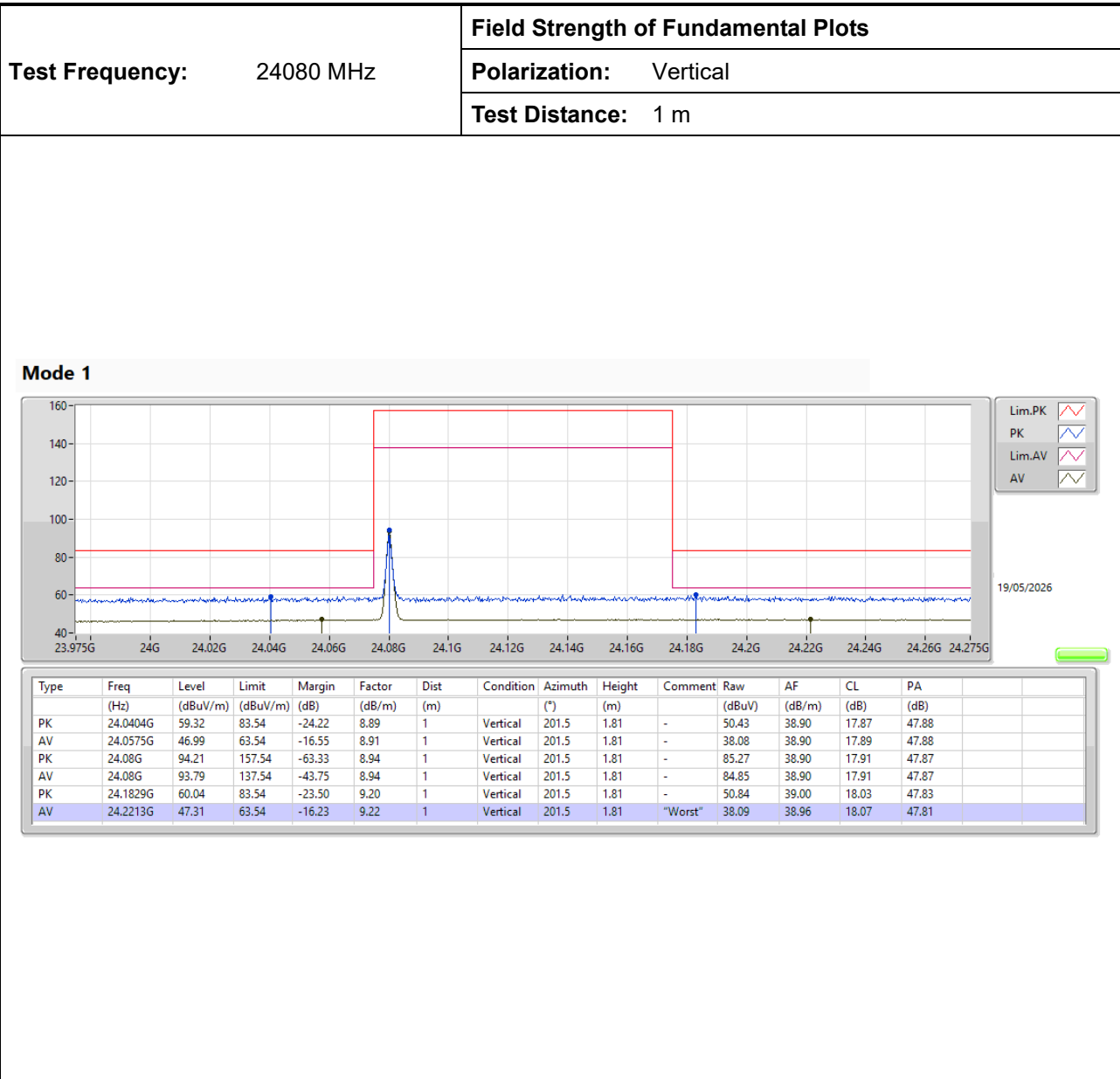
3.3.5 Measurement Results Calculation

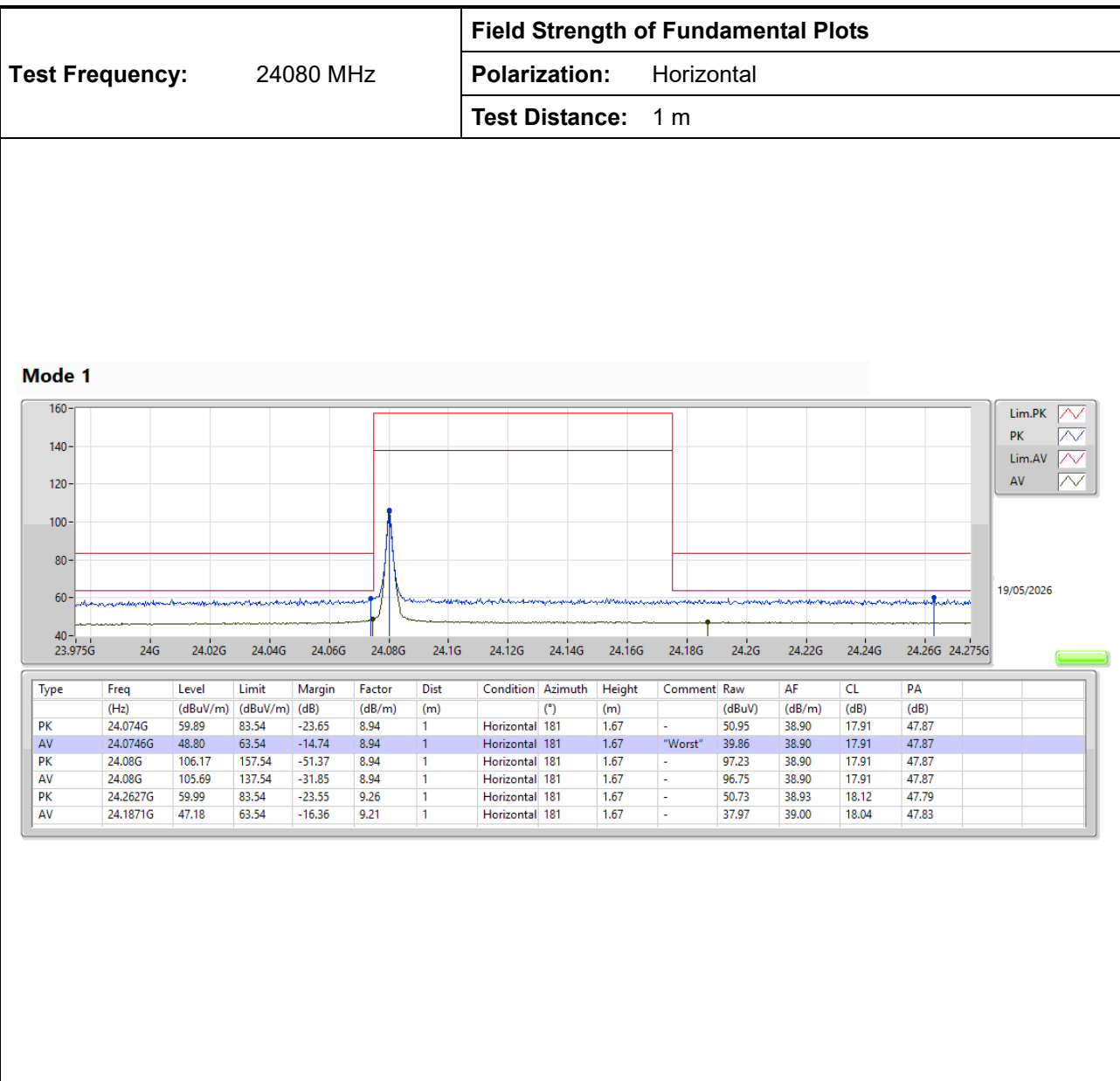
The measured Level is calculated using:

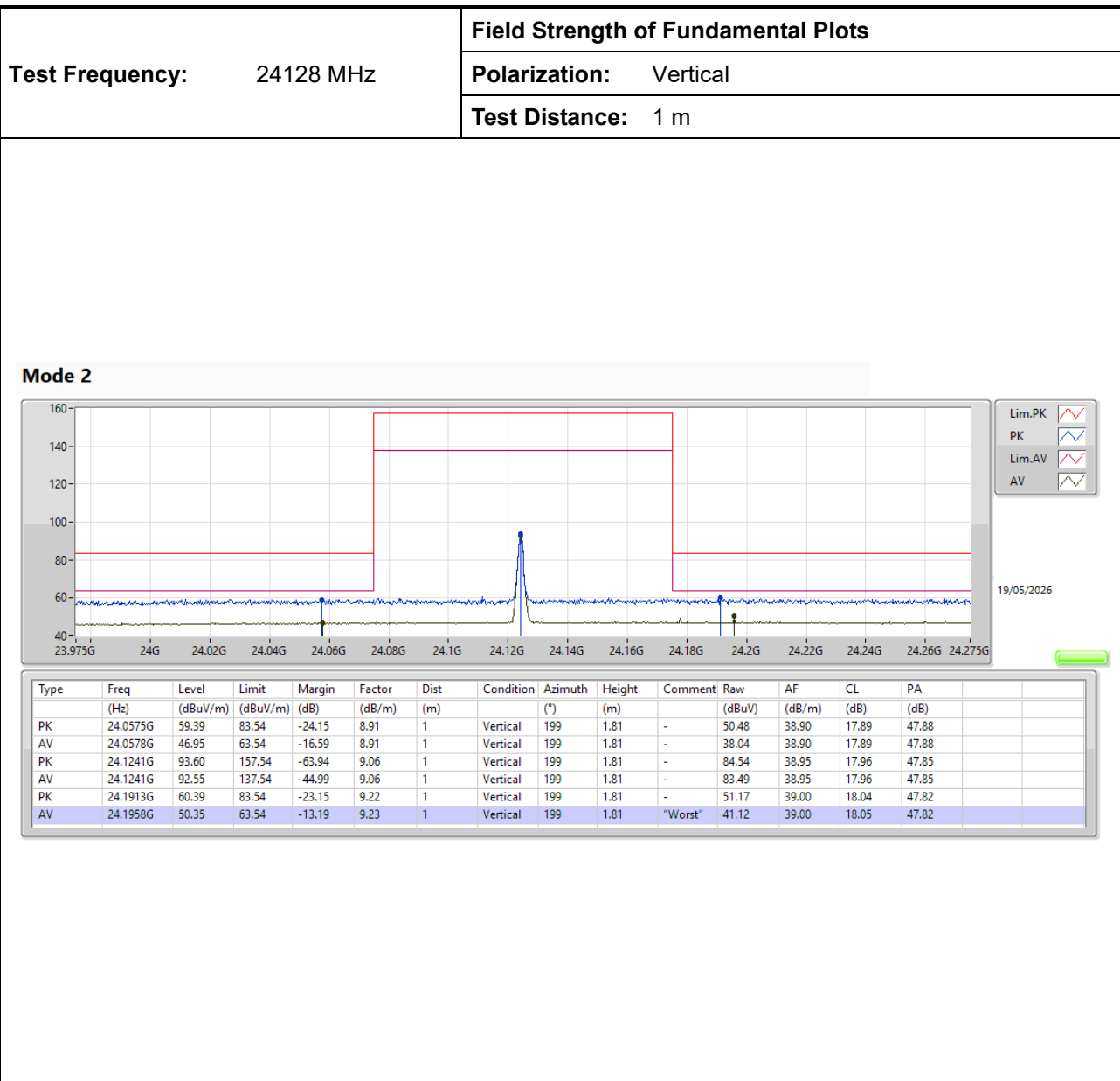
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

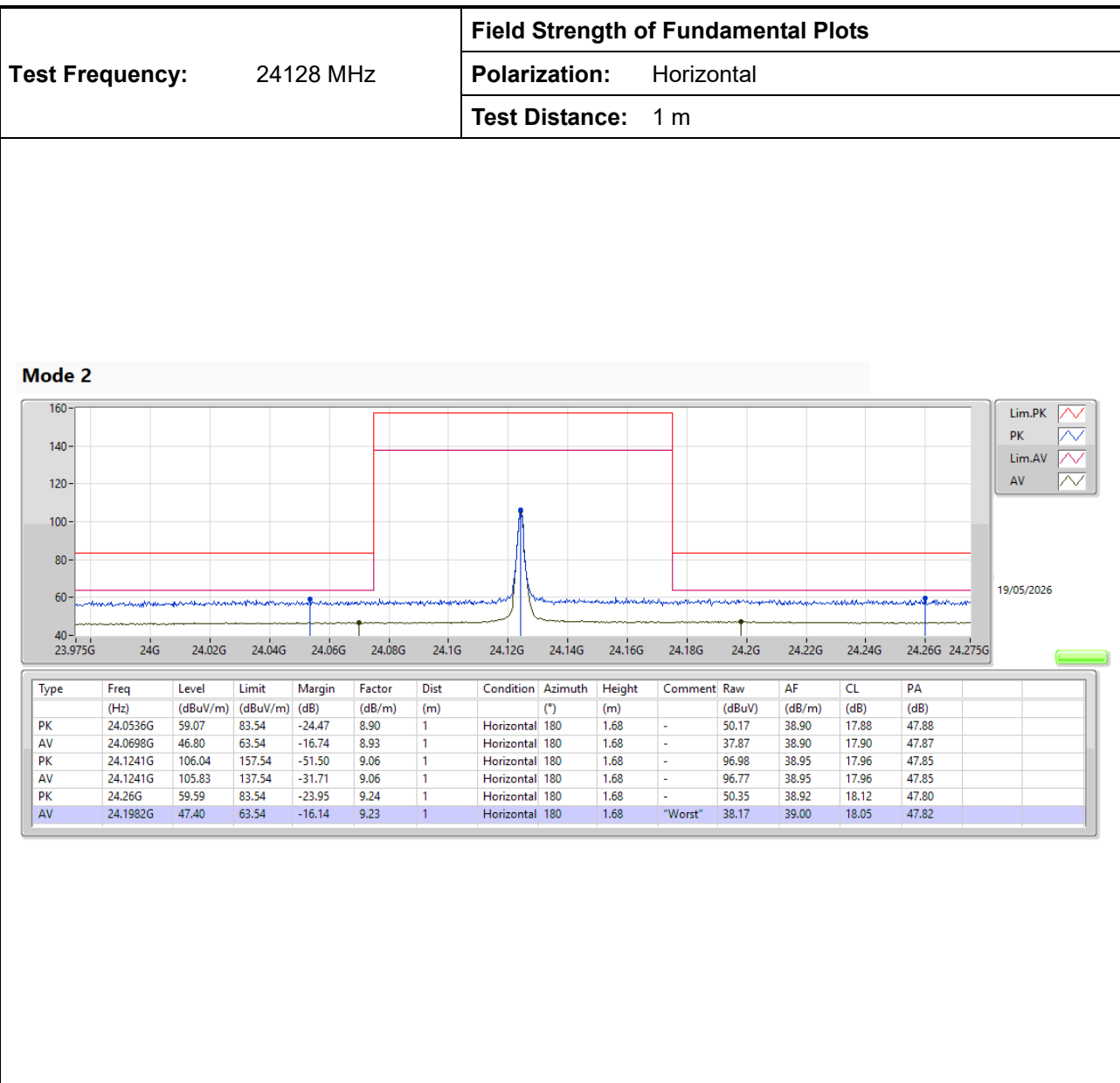
3.3.6 Test Result of Field Strength of Fundamental

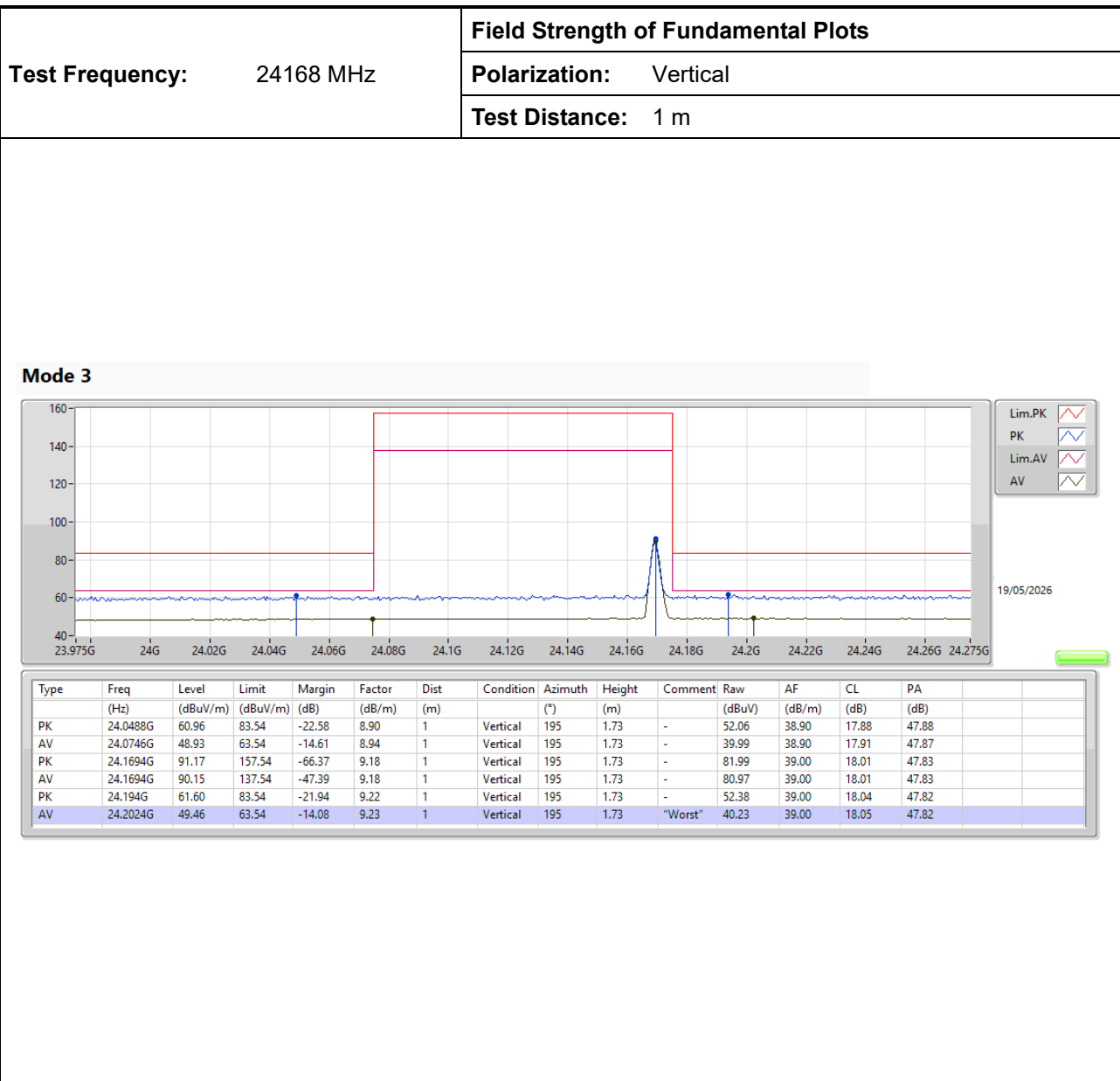
Test Conditions:	see ANSI C63.10, clause 5.11
Test Setup:	see ANSI C63.10, clause 6.6
Note1: If the equipment supports different modulations and/or data rates, the measurements described in ANSI C63.10, clause 5.12 may not need to be repeated for all these modulations and data rates. Simple comparison of engineering test across all operating modes, modulations and data rates may need to be performed to define the worse case combination to be used for the conformance testing. Note2: Conformance tests have to be performed over the frequency range(s) that has been declared with this Field Strength of Fundamental and using the antenna gain of the antenna with the highest gain among those that have been declared with this Field Strength of Fundamental. For smart antenna systems, the antenna beam forming gain may have to be taken into account as well.	

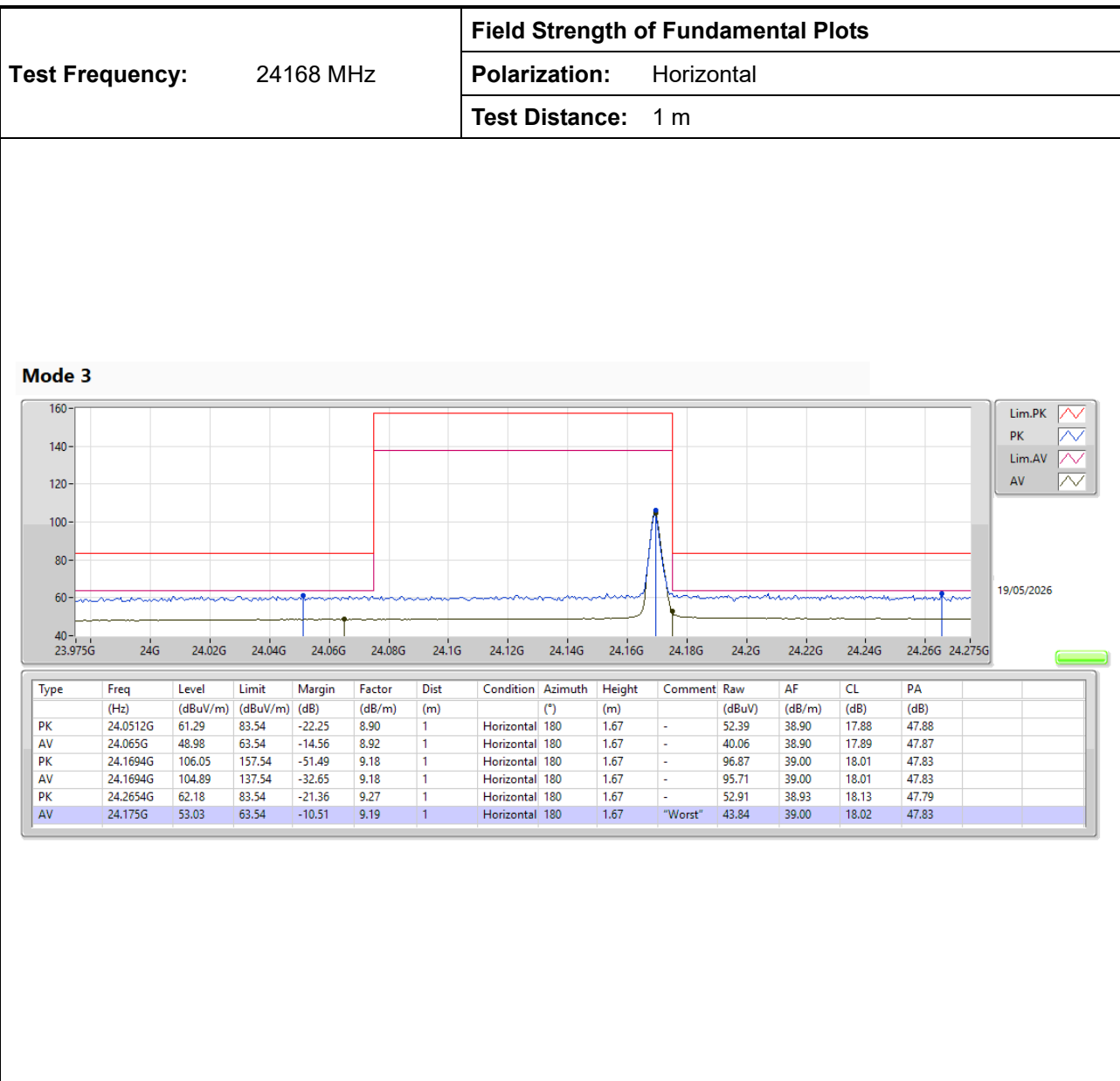
**3.3.7 Test Result of Field Strength of Fundamental**











3.4 Transmitter Spurious Emissions

3.4.1 Limit of Transmitter Spurious Emissions

Transmitter Spurious Emissions	
1.	902 - 928MHz, Field disturbance sensors
♦	Harmonic emissions in the restricted bands: 15.209 limit
♦	Harmonic emissions in the non-restricted bands: 1.6mV/m
♦	Except harmonic emissions, spurious emissions: FCC 15.209 limit or 50 dB below the fundamental, whichever is the lesser attenuation.
2.	2435 - 2465MHz, 5785 - 5815MHz, Field disturbance sensors
♦	Harmonic emissions in the restricted bands at and below 17.7 GHz: 15.209 limit
♦	Harmonic emissions in the restricted bands at and above 17.7 GHz: 7.5mV/m
♦	Harmonic emissions in the non-restricted bands: 1.6mV/m
♦	Except harmonic emissions, spurious emissions: FCC 15.209 limit or 50 dB below the fundamental, whichever is the lesser attenuation.
3.	10500 – 10550MHz, Field disturbance sensors
♦	Harmonic emissions in the restricted bands at and above 17.7 GHz: 7.5mV/m
♦	Harmonic emissions in the non-restricted bands: 25mV/m
♦	Except harmonic emissions, spurious emissions: FCC 15.209 limit or 50 dB below the fundamental, whichever is the lesser attenuation.
4.	24075-24175 MHz, Field disturbance sensors
♦	Second and third harmonics: 25 mV/m
♦	Except harmonic emissions, spurious emissions: FCC 15.209 limit or 50 dB below the fundamental, whichever is the lesser attenuation.

Note: The limit shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1m.

Distance extrapolation factor = $20 \log (\text{specific distance [3m]} / \text{test distance [1m]})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [9.54 dB].

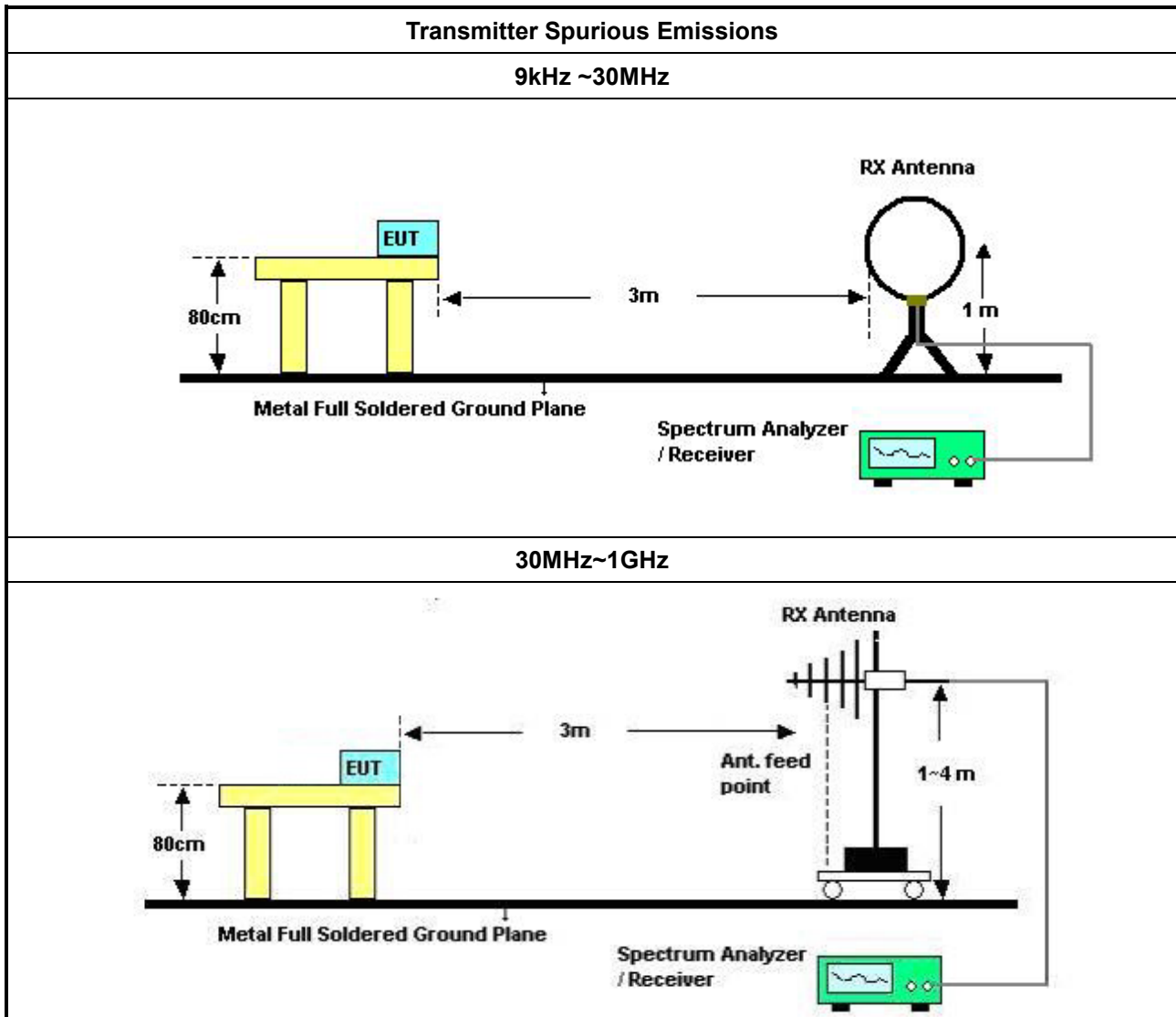
3.4.2 Measuring Instruments

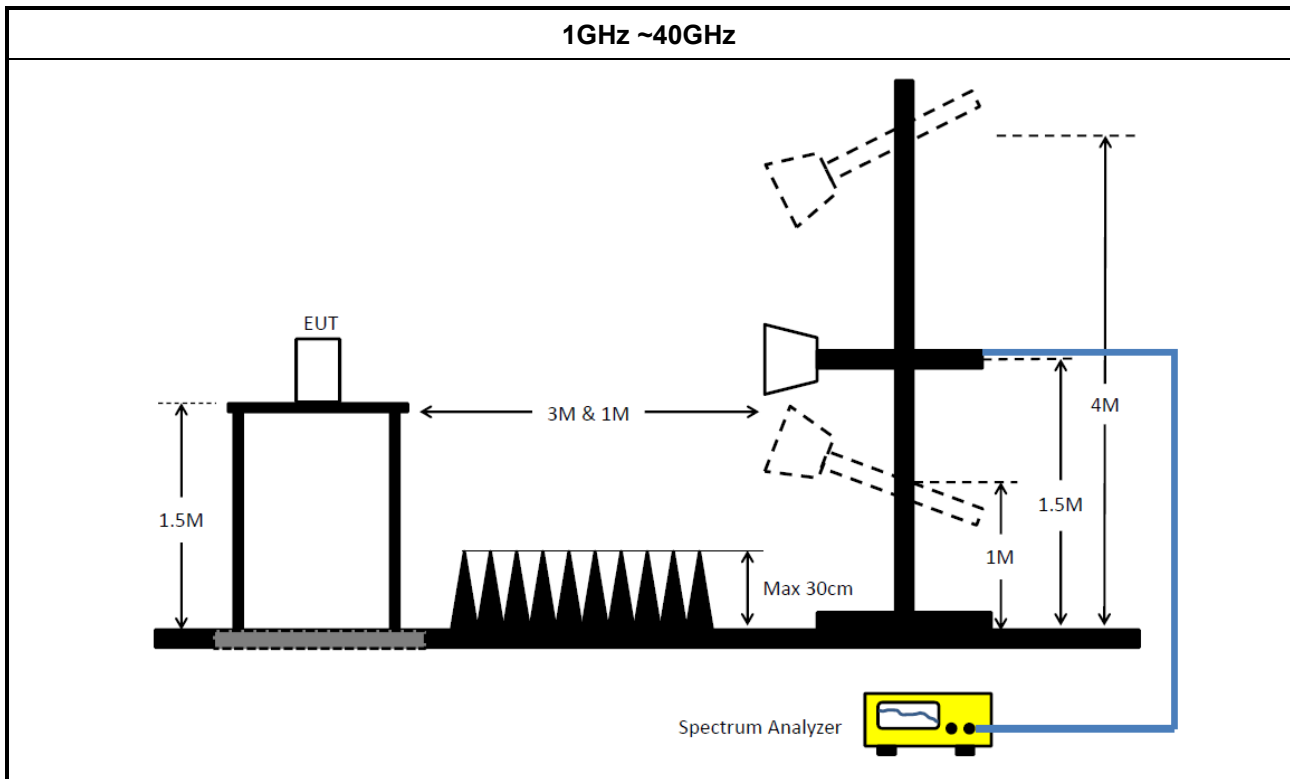
Refer a measuring instruments list in this test report.

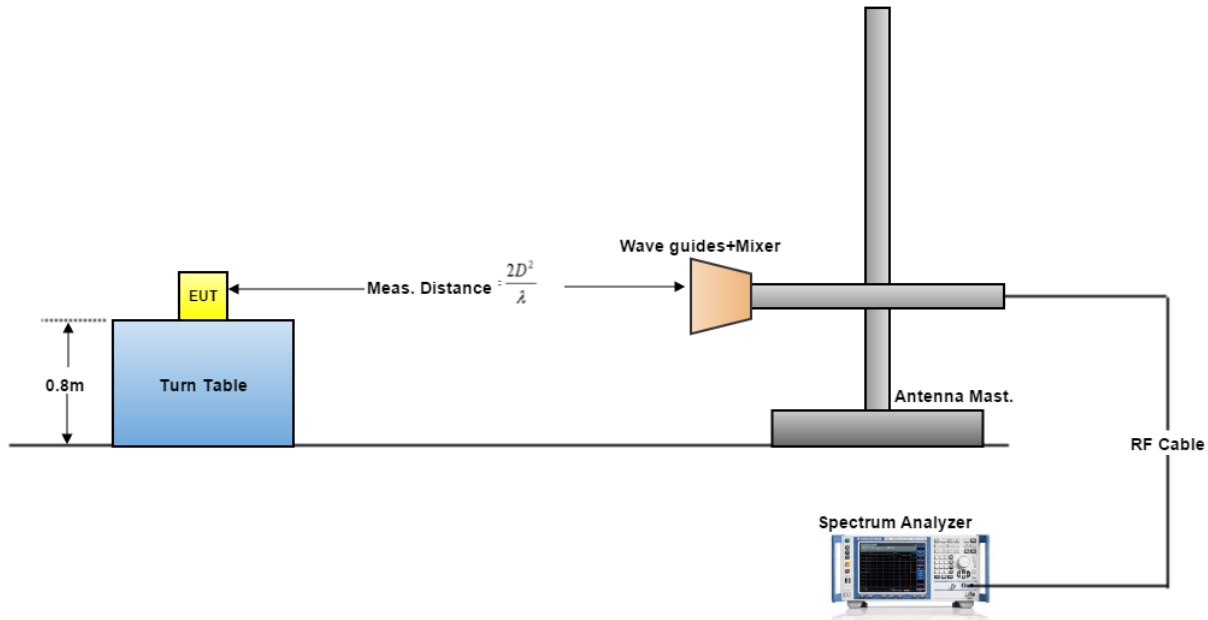
3.4.3 Test Procedures

Method of measurement: Refer as ANSI C63.10-2020, clauses 6.3, 6.4, 6.5, 6.6 and 9.12.

3.4.4 Test Setup





Above 40GHz


A measuring distance of at 3 m shall be used for measurements at frequencies up to 15 GHz. For frequencies above 15 GHz, any suitable measuring distance may be used. The measurement distance is chosen up to far field distance, depending on the test system noise floor for detecting spurious emission signals. Then above 15 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from spec. distance (3 m) to measurement distance. Distance extrapolation factor = $20 \log (\text{spec. distance [3 m]} / \text{measurement distance [N m]})$ (dB). The measurements described in ANSI C63.10, clause 7.8.6. If the emission cannot be detected at 1 m, reduce the RBW to increase system sensitivity. Note the value. If the emission still cannot be detected, move the horn closer to the EUT, noting the distance at which a measurement is made.

3.4.5 Measurement Results Calculation

The measured Level is calculated using:

For below 40GHz

Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

For above 40GHz

E-field strength = $126.8 + 20 \log(\lambda) + P - G$

where

E is the field strength of the emission at the measurement distance, in dBuV/m

λ is the wavelength of the emission under investigation [$300/f(\text{MHz})$], in m

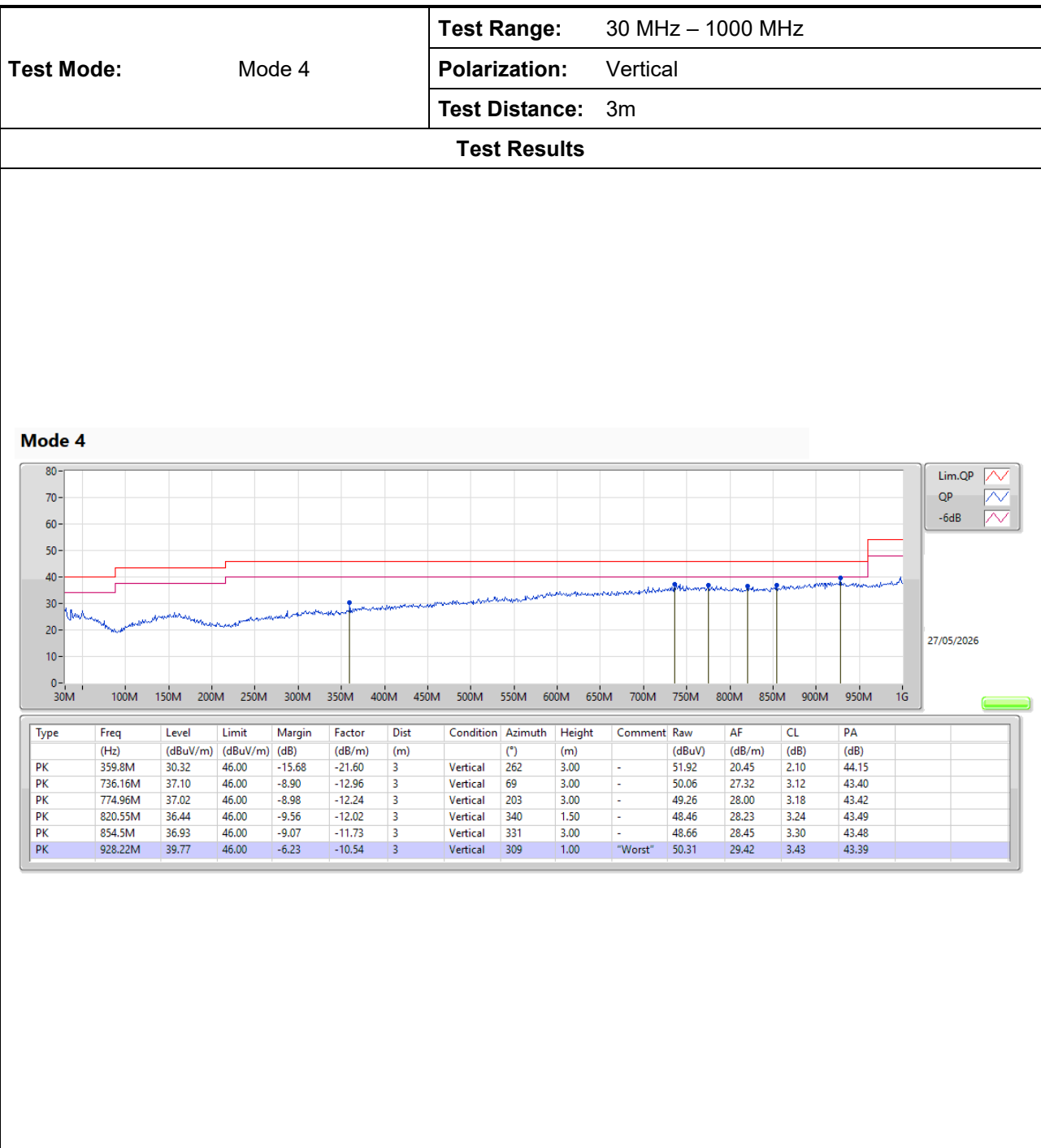
P is the power measured at the output of the measurement antenna, in dBm

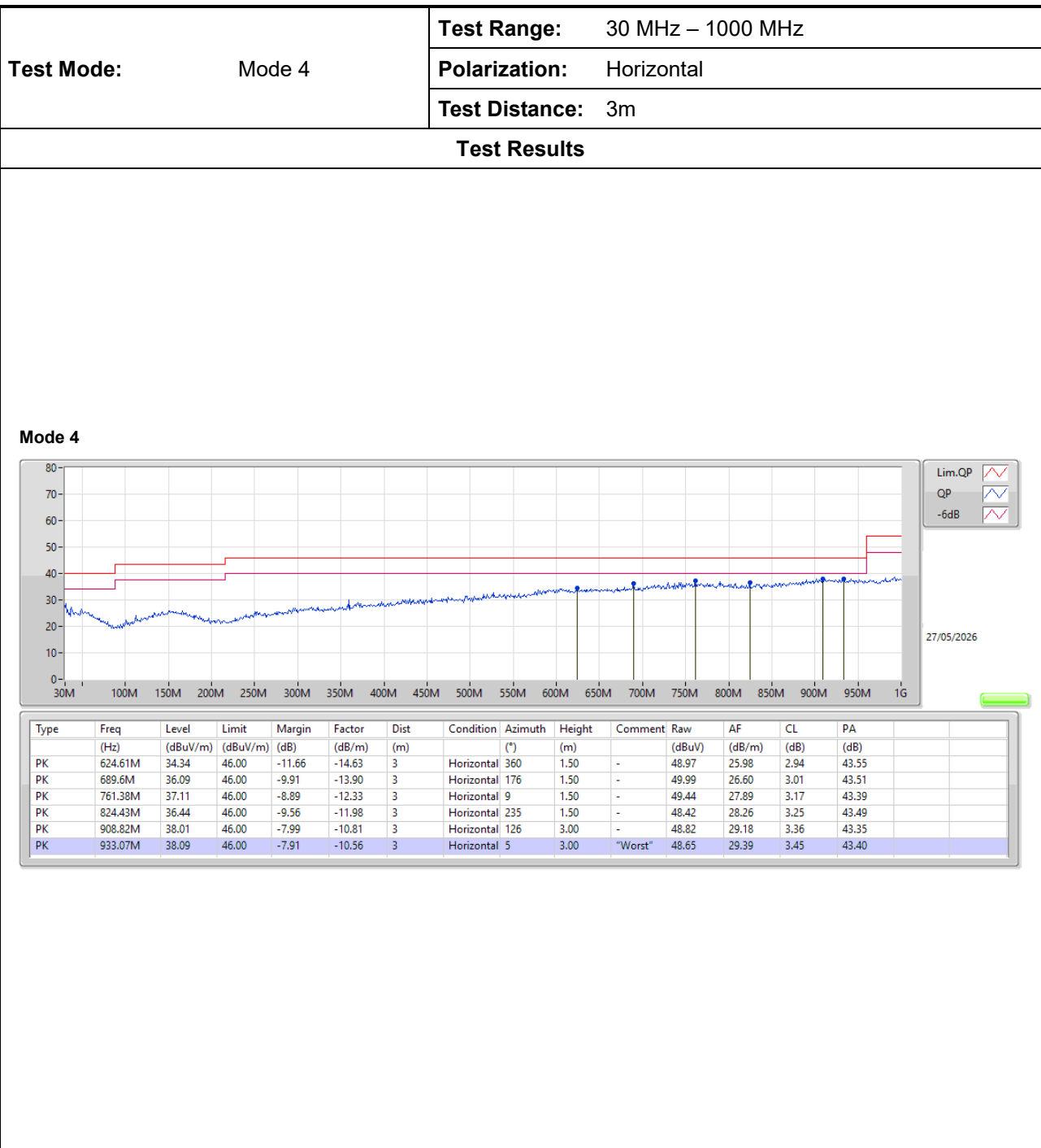
G is the gain of the measurement antenna, in dBi

**3.4.6 Test Result of Transmitter Spurious Emissions**

Test Conditions:	see ANSI C63.10, clause 5.11
Test Setup:	see ANSI C63.10, clauses 6.3, 6.4, 6.5, 6.6 and 9.12
Note1: If equipment having different channel plan and nominal channel bandwidth modes, the measurements are uninfluenced by different channel plan and nominal channel bandwidth modes, may not need to be repeated for all modes.	
Note2: Note: Conformance tests have to be performed over the frequency range(s) that has been declared with this Field Strength of Fundamental and using the antenna gain of the antenna with the highest gain among those that have been declared with this Field Strength of Fundamental. For smart antenna systems, the antenna beam forming gain may have to be taken into account as well.	

Test Range:		9 kHz - 30 MHz			
Test Results					
Test Range	Emission Frequency (MHz)	Emission Observed (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
9 kHz - 30 MHz	N/F	N/F	-	-	Peak
Note: 1.“N/F” means Nothing Found (No spurious emissions were detected.) 2.There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.					









Test Frequency: 24080 MHz	Test Range: 1 GHz – 18 GHz
	Polarization: Horizontal
	Test Distance: 3m
Test Results	

Mode 1

Lim.PK
PK
Lim.AV
AV

14/05/2026

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB/m)	CL (dB)	PA (dB)
PK	16.50381G	53.92	74.00	-20.08	9.54	3	Horizontal	0	1.80	-	44.38	38.58	15.51	44.55
AV	16.49967G	40.46	54.00	-13.54	9.56	3	Horizontal	0	1.80	"Worst"	30.90	38.60	15.51	44.55





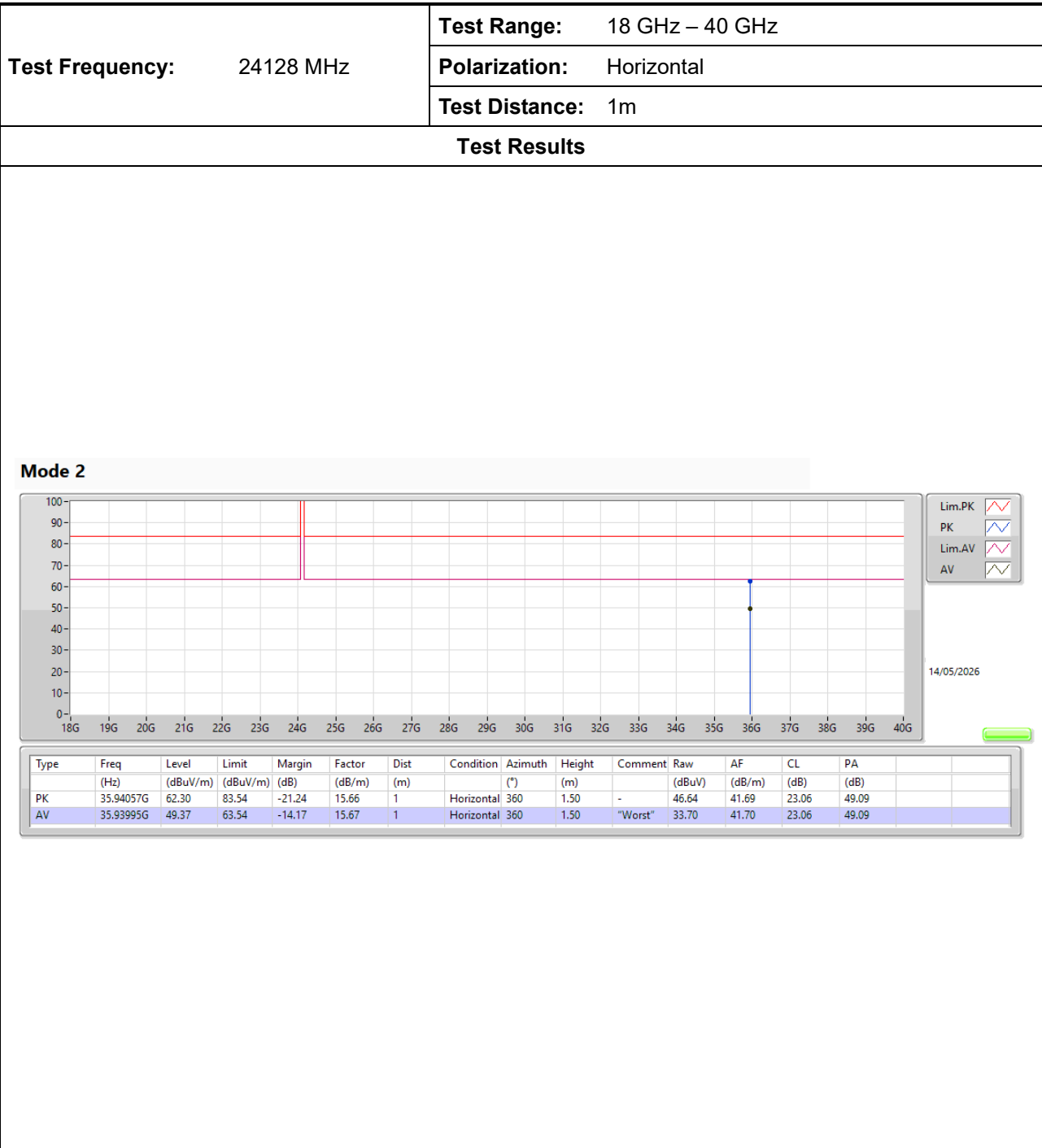




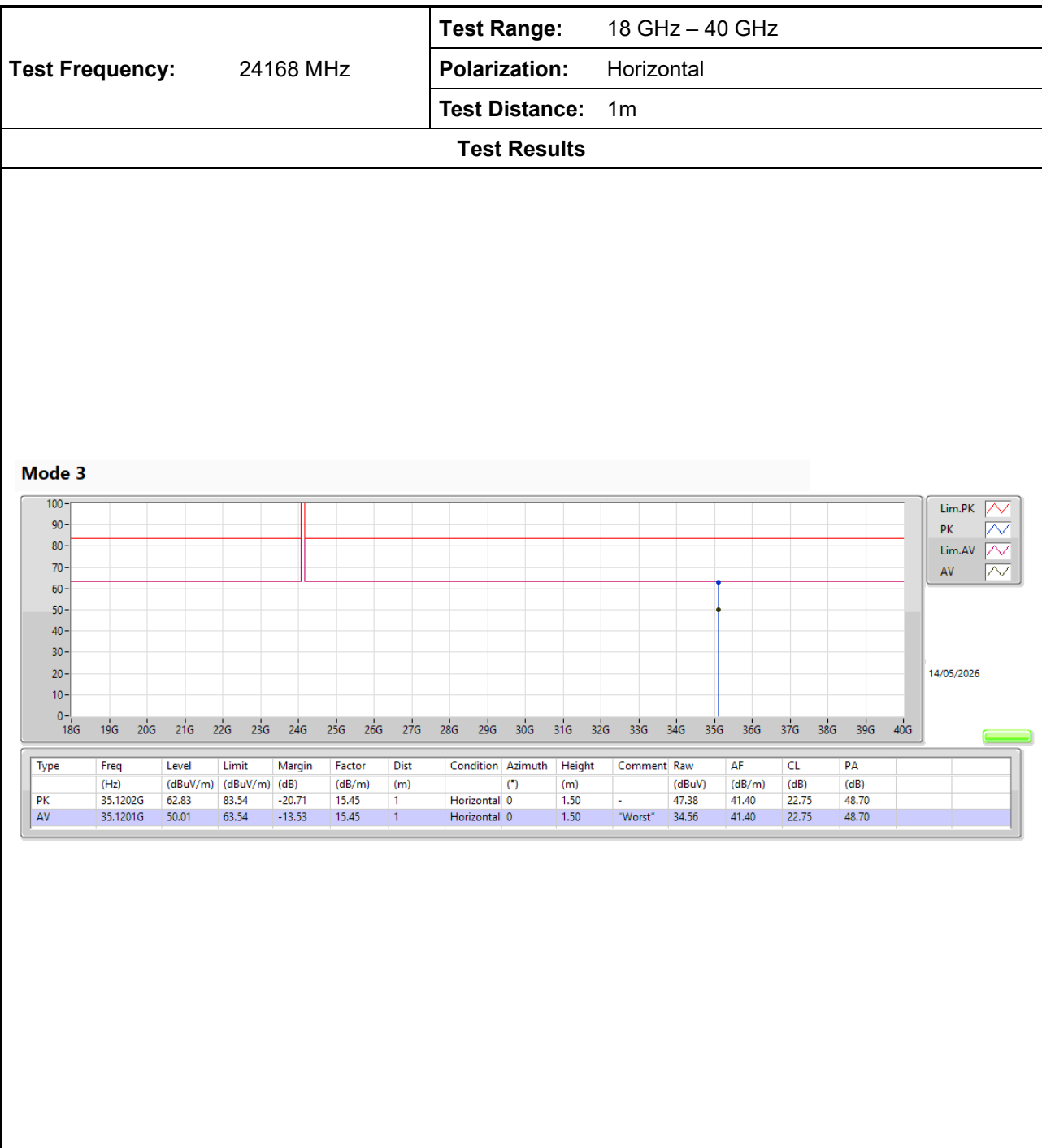














Test Frequency: 24080 MHz			Test Range: 40 GHz – 100 GHz					
			Test Distance: 1m					
Test Results								
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
48.157	1	-59.82	23.9	77.77	128.00	-50.23	Peak	Pass
48.157	1	-60.21	23.9	77.38	148.00	-70.62	Average	Pass
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
72.236	1	-69.20	23.8	72.01	128.00	-55.99	Peak	Pass
72.236	1	-69.56	23.8	71.65	148.00	-76.35	Average	Pass
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
96.316	1	-71.52	23.6	72.39	128.00	-55.61	Peak	Pass
96.315	1	-73.82	23.6	70.09	148.00	-77.91	Average	Pass



Test Frequency: 24128 MHz			Test Range: 40 GHz – 100 GHz					
			Test Distance: 1m					
Test Results								
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
41.433	1	-66.50	23.9	69.78	128.00	-58.22	Peak	Pass
48.245	1	-55.63	23.9	81.98	148.00	-66.02	Average	Pass
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
72.368	1	-68.16	23.8	73.07	128.00	-54.93	Peak	Pass
72.368	1	-68.64	23.8	72.59	148.00	-75.41	Average	Pass
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
96.491	1	-73.38	23.6	70.55	128.00	-57.45	Peak	Pass
96.491	1	-75.28	23.6	68.65	148.00	-79.35	Average	Pass



Test Frequency: 24168 MHz			Test Range: 40 GHz – 100 GHz					
			Test Distance: 1m					
Test Results								
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
41.433	1	-58.06	23.9	78.22	128.00	-49.78	Peak	Pass
41.230	1	-58.15	23.9	78.09	148.00	-69.91	Average	Pass
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
72.503	1	-68.63	23.8	72.61	128.00	-55.39	Peak	Pass
72.503	1	-68.93	23.8	72.31	148.00	-75.69	Average	Pass
Frequency (GHz)	Measurement Distance (m)	Read Level (dBm)	Rx Antenna Gain (dBi)	Measurement Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark	Result
96.671	1	-74.34	23.6	69.60	128.00	-58.40	Peak	Pass
96.671	1	-76.03	23.6	67.91	148.00	-80.09	Average	Pass



3.5 Antenna Requirements

3.5.1 Limit of Antenna Requirements

Limits for Antenna Requirements
The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

3.5.2 EUT Antenna

See test report clause 1.1.1, EUT antenna complied with antenna requirements.



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 12, 2026	Mar. 11, 2027	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 04, 2026	Feb. 03, 2027	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr 10, 2026	Apr 09, 2027	Conduction (CO01-CB)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
COND Cable	Woken	Cable	CO01	9kHz ~ 30MHz	Sep. 14, 2025	Sep. 13, 2026	Conduction (CO01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11	150kHz-30MHz	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30MHz	Oct. 20, 2025	Oct. 19, 2026	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 16, 2026	Jan. 15, 2027	Radiation (03CH03-CB)
Bilog Antenna with 6dB Attenuator	Schwarzbeck & EMCi	VULB9168 & EMCi-N-6-06	1808 & AT-06039	25MHz ~ 1GHz	May 22, 2026	May 21, 2027	Radiation (03CH03-CB)
Amplifier	SGH	SGH301	20240606-1	30MHz ~ 1GHz	Jun. 03, 2025	Jun. 02, 2026	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jul. 17, 2025	Jul. 16, 2026	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESR7	102172	9kHz ~ 7GHz	Oct. 29, 2025	Oct. 28, 2026	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Jul. 15, 2025	Jul. 14, 2026	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.10	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~ 18GHz 3m	May 02, 2026	May 01, 2027	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Aug. 22, 2025	Aug. 21, 2026	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 16, 2025	May 15, 2026	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 15, 2026	May 14, 2027	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	SGH	SGH5265	20240911-1	1~ 26.5GHz	Sep. 18, 2025	Sep. 17, 2026	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 21, 2025	Nov. 20, 2026	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Dec. 12, 2025	Dec. 11, 2026	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Jan. 26, 2026	Jan. 25, 2027	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Feb. 11, 2026	Feb. 10, 2027	Radiation (03CH01-CB)
*Harmonic Mixer	R&S	FS-Z60	100114	40GHz~60GHz	Nov. 22, 2024	Nov. 21, 2026	Radiation (03CH01-CB)
*Harmonic Mixer	R&S	FS-Z90	102135	60GHz~90GHz	Sep. 13, 2024	Sep. 12, 2026	Radiation (03CH01-CB)
*Harmonic Mixer	R&S	FS-Z140	101160	90GHz~140GHz	Jan. 20, 2025	Jan. 19, 2027	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M19RH	U91113-A	40 ~ 60 GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M12RH	E91113-A	60 ~ 90 GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Standard Horn Antenna	Custom Microwave	M08RH	F91113-A	90 ~ 140 GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE-EMI	V5.11.10	30MHz-40GHz	N.C.R.	N.C.R.	Radiation (03CH01-CB)

Note: Calibration Interval of instruments listed above is one year.

“**” Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.