

FCC Test Report

FCC ID : QXO-AP5022
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5022FX
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 15.517

The product was received on Oct. 15, 2025, and testing was started from Nov. 27, 2025 and completed on Feb. 24, 2026. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
1.1.5	15.517(a)	Operational Restriction	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.503 (d) /15.517(b)	UWB Bandwidth	PASS	-
3.3	15.517(e)	Peak Emissions within a 50 MHz Bandwidth	PASS	-
3.4	15.517(c) /15.517(d)	Radiated Emissions	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

According to FCC §15.521(c), emission from digital circuitry used to enable the operation of the UWB transmitter shall comply with the limits in § 15.209. Limit for given spurs at 961.64 MHz / 965.33 MHz / 973.52 MHz / 978.85 MHz / 999.75 MHz / 1.03416 GHz / 1.04195 GHz / 1.04236 GHz / 1.04974 GHz / 1.0526 GHz / 1.05916 GHz / 1.08415 GHz / 1.08702 GHz / 1.13537 GHz / 1.15586 GHz are 500uV/m, which is 53.98dBuV/m.

Relative to this limit the spurs are PASS.

Reviewed by: Ben Tseng

Report Producer: Amber Chiu



1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information					
Frequency Range (GHz)	Mode	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	EIRP (dBm/50MHz)
3.1-10.6	UWB	7987.2	9	1	-0.20
Note 1: TransferJet uses Pi/2 shift BPSK + DSSS modulation.					

Band	Mode	BWch (MHz)	Nant
3.1-10.6 GHz	Ultra Wide Band	499.2	1TX

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Radio	Remark
1	1234	Extreme Networks	AI-TP05360	MIMO-Directional Panel	SMA ST. Plug	2.4G & 5G Low & 6G High + 5G Full & 5G High + 6G Full & 6G Low	Radio 1+Radio 2 +Radio 3	-
2	1234	Extreme Networks	AI-TQ08055	Sector	RP- SMA	2.4G & 5G Low & 6G High + 5G Full & 5G High + 6G Full & 6G Low	Radio 1+Radio 2 +Radio 3	-
3	1234	Extreme Networks	AIO-HQ17020	MIMO-Directional Panel	SMA Female	5G Low & 6G High + 5G Full & 5G High + 6G Full & 6G Low	Radio 1+Radio 2 +Radio 3	-
4	1234	Extreme Networks	AIO-DQ15021-RPS MA	MIMO-Directional Panel	Reverse SMA	2.4G & 5G Low + 5G Full & 5G High	Radio 1+Radio 2	-
5	1	WNC	95XPAM15.G84	PIFA	I-Pex	6G Full & 6G Low	Radio 3	-
6	2	WNC	95XPAM15.G85	PIFA	I-Pex	6G Full & 6G Low	Radio 3	-
7	3	WNC	95XPAM15.G87	Alford loop	I-Pex	6G Full & 6G Low	Radio 3	-
8	4	WNC	95XPAM15.G88	Alford loop	I-Pex	6G Full & 6G Low	Radio 3	-
9	1	WNC	95XPAM15.G56	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	-
10	2	WNC	95XPAM15.G57	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	-
11	1	WNC	95XPAM15.G53	PIFA	I-Pex	BT+802.15.4	Radio 5	-
12	2	WNC	95XPAM15.G54	PIFA	I-Pex	BT+802.15.4	Radio 5	-
13	3	WNC	95XPAM15.GAM	Alford loop	I-Pex	BT+802.15.4	Radio 5	-
14	4	Extreme Networks	AI-TS06360	Dipole	RP-SMA	BT+802.15.4	Radio 5	-
15	1	WNC	95XPAM15.G81	PIFA	I-Pex	UWB	Radio 6	-
16	2	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-
17	3	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-
18	4	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-



Ant.	POL	Port	Antenna peak gain (dBi)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant.1 Radio 1 2.4G 5G Low 6G High	-	1	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	2	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	3	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	4	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
	-	5	4.4	4.4	4.4	-	-	-	-	4.7	2.8	-	-	-
Ant.1 Radio 2 5G Full 5G High	-	1	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	2	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	3	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	4	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
	-	5	-	4.4	4.4	5.2	5	-	-	-	-	-	-	-
Ant 1 Radio 3 6G Full 6G Low	-	1	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	2	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	3	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	4	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
	-	5	-	-	-	-	-	4.7	4.7	4.7	2.8	-	-	-
Ant 2 Radio 1 2.4G 5G Low 6G High	V-POL	1	7	6	6	-	-	-	-	6	6	-	-	-
	H-POL	2	7	6	6	-	-	-	-	6	6	-	-	-
	V-POL	3	7	6	6	-	-	-	-	6	6	-	-	-
	H-POL	4	7	6	6	-	-	-	-	6	6	-	-	-
Ant 2 Radio 2 5G Full 5G High	V-POL	1	-	6	6	6	6	-	-	-	-	-	-	-
	H-POL	2	-	6	6	6	6	-	-	-	-	-	-	-
	V-POL	3	-	6	6	6	6	-	-	-	-	-	-	-
	H-POL	4	-	6	6	6	6	-	-	-	-	-	-	-
Ant 2 Radio 3 6G Full 6G Low	V-POL	1	-	-	-	-	-	6	6	6	6	-	-	-
	H-POL	2	-	-	-	-	-	6	6	6	6	-	-	-
	V-POL	3	-	-	-	-	-	6	6	6	6	-	-	-
	H-POL	4	-	-	-	-	-	6	6	6	6	-	-	-
Ant 3 Radio 1 5G Low 6G High	- 45 POL	1	-	17	17	-	-	-	-	17	17	-	-	-
	+ 45 POL	2	-	17	17	-	-	-	-	17	17	-	-	-
	+ 45 POL	3	-	17	17	-	-	-	-	17	17	-	-	-
	- 45 POL	4	-	17	17	-	-	-	-	17	17	-	-	-
Ant 3 Radio 2 5G Full 5G High	- 45 POL	1	-	17	17	17	17	-	-	-	-	-	-	-
	+ 45 POL	2	-	17	17	17	17	-	-	-	-	-	-	-
	+ 45 POL	3	-	17	17	17	17	-	-	-	-	-	-	-
	- 45 POL	4	-	17	17	17	17	-	-	-	-	-	-	-
Ant 3 Radio 3 6G Full 6G Low	- 45 POL	1	-	-	-	-	-	17	17	17	17	-	-	-
	+ 45 POL	2	-	-	-	-	-	17	17	17	17	-	-	-
	+ 45 POL	3	-	-	-	-	-	17	17	17	17	-	-	-
	- 45 POL	4	-	-	-	-	-	17	17	17	17	-	-	-



Ant.	POL	Port	Antenna peak gain (dBi)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant 4 Radio 1 2.4G 5G Low	V-POL	1	11.1	15	15	-	-	-	-	-	-	-	-	-
	H-POL	2	11.1	15	15	-	-	-	-	-	-	-	-	-
	V-POL	3	11.1	15	15	-	-	-	-	-	-	-	-	-
	H-POL	4	11.1	15	15	-	-	-	-	-	-	-	-	-
Ant 4 Radio 2 5G Full 5G High	V-POL	1	-	15	15	15	15	-	-	-	-	-	-	-
	H-POL	2	-	15	15	15	15	-	-	-	-	-	-	-
	V-POL	3	-	15	15	15	15	-	-	-	-	-	-	-
	H-POL	4	-	15	15	15	15	-	-	-	-	-	-	-
Ant 5	-	1	-	-	-	-	-	5.8	4.39	4.54	5.28	-	-	-
Ant 6	-	2	-	-	-	-	-	4.31	5.13	4.62	4.43	-	-	-
Ant 7	-	3	-	-	-	-	-	5.41	5.06	3.5	4.6	-	-	-
Ant 8	-	4	-	-	-	-	-	4.15	3.89	2.42	3.55	-	-	-
Ant 9	-	1	2.42	4.11	4.34	5.46	3.49	3.46	4.88	5.13	4.76	-	-	-
Ant 10	-	2	2.86	3.32	3.52	3.7	4.34	5.68	4.13	4.75	4.59	-	-	-
Ant 11	-	1	-	-	-	-	-	-	-	-	-	3.6	3.6	-
Ant 12	-	2	-	-	-	-	-	-	-	-	-	5.7	5.7	-
Ant 13	-	3	-	-	-	-	-	-	-	-	-	2.7	2.7	-
Ant 14	-	4	-	-	-	-	-	-	-	-	-	3.04	3.04	-
Ant 15	-	1	-	-	-	-	-	-	-	-	-	-	-	4.7
Ant 16	-	2	-	-	-	-	-	-	-	-	-	-	-	5.4
Ant 17	-	3	-	-	-	-	-	-	-	-	-	-	-	4.8
Ant 18	-	4	-	-	-	-	-	-	-	-	-	-	-	4.4



Ant.	POL	Port	Antenna cable loss (dB)																	
			Main PCB to External Antenna Connector Loss					Radio 1: Main PCB to External Antenna Connector Loss Radio 3: Main PCB to Switch Board Loss				Radio 3: Switch Board to External Antenna Connector Loss				Antenna 3 Cable Loss		Main PCB to External Antenna Connector Loss		UWB
2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	UNII-5	UNII-6	UNII-7	UNII-8	5G Ant.	6G Ant.	BT	802.1 5.4	UWB			
Ant.1 Radio 1 2.4G 5G Low 6G High	-	1	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	2	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	3	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	4	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	-	5	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
Ant.1 Radio 2 5G Full 5G High	-	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	5	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 1 Radio 3 6G Full 6G Low	-	1	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	2	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	3	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	4	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	-	5	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
Ant 2 Radio 1 2.4G 5G Low 6G High	V-POL	1	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	H-POL	2	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	V-POL	3	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
	H-POL	4	1.38	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	-	-	-	-	-
Ant 2 Radio 2 5G Full 5G High	V-POL	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	V-POL	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 2 Radio 3 6G Full 6G Low	V-POL	1	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	H-POL	2	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	V-POL	3	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
	H-POL	4	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	-	-	-	-
Ant 3 Radio 1 5G Low 6G High	- 45 POL	1	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
	+ 45 POL	2	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
	+ 45 POL	3	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
	- 45 POL	4	-	1.86	1.86	-	-	-	-	2.18	2.18	-	-	-	-	0.75	0.84	-	-	-
Ant 3 Radio 2 5G Full 5G High	- 45 POL	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
	+ 45 POL	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
	+ 45 POL	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
	- 45 POL	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	0.75	-	-	-	-
Ant 3 Radio 3 6G Full 6G Low	- 45 POL	1	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-
	+ 45 POL	2	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-
	+ 45 POL	3	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-
	- 45 POL	4	-	-	-	-	-	2.73	2.73	2.73	2.73	1.86	1.86	1.86	1.86	-	0.84	-	-	-



Ant.	POL	Port	Antenna cable loss (dB)																	
			Main PCB to External Antenna Connector Loss					Radio 1: Main PCB to External Antenna Connector Loss Radio 3: Main PCB to Switch Board Loss				Radio 3: Switch Board to External Antenna Connector Loss				Antenna 3 Cable Loss		Main PCB to External Antenna Connector Loss		UWB
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	UNII-5	UNII-6	UNII-7	UNII-8	5G Ant.	6G Ant.	BT	802.15.4	UWB
Ant 4 Radio 1 2.4G 5G Low	V-POL	1	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	2	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	V-POL	3	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	4	1.38	1.86	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 4 Radio 2 5G Full 5G High	V-POL	1	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	2	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	V-POL	3	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	H-POL	4	-	2.25	2.25	2.25	2.25	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 5	-	1	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 6	-	2	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 7	-	3	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 8	-	4	-	-	-	-	-	2.73	2.73	2.73	2.73	-	-	-	-	-	-	-	-	-
Ant 9	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 10	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 11	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 12	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 13	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 14	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.09	1.09	-
Ant 15	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 16	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 17	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ant 18	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



FCC Test Report

Report No. : FR5O0964BU

Ant.	POL	Port	Antenna Net Gain (dB)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant.1 Radio 1 2.4G 5G Low 6G High	-	1	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	2	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	3	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	4	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
	-	5	3.02	2.54	2.54	-	-	-	-	2.52	0.62	-	-	-
Ant.1 Radio 2 5G Full 5G High	-	1	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	2	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	3	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	4	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
	-	5	-	2.15	2.15	2.95	2.75	-	-	-	-	-	-	-
Ant 1 Radio 3 6G Full 6G Low	-	1	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	2	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	3	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	4	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
	-	5	-	-	-	-	-	0.11	0.11	0.11	-1.79	-	-	-
Ant 2 Radio 1 2.4G 5G Low 6G High	V-POL	1	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
	H-POL	2	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
	V-POL	3	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
	H-POL	4	5.62	4.14	4.14	-	-	-	-	3.82	3.82	-	-	-
Ant 2 Radio 2 5G Full 5G High	V-POL	1	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
	H-POL	2	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
	V-POL	3	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
	H-POL	4	-	3.75	3.75	3.75	3.75	-	-	-	-	-	-	-
Ant 2 Radio 3 6G Full 6G Low	V-POL	1	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
	H-POL	2	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
	V-POL	3	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
	H-POL	4	-	-	-	-	-	1.41	1.41	1.41	1.41	-	-	-
Ant 3 Radio 1 5G Low 6G High	- 45 POL	1	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
	+ 45 POL	2	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
	+ 45 POL	3	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
	- 45 POL	4	-	14.39	14.39	-	-	-	-	13.98	13.98	-	-	-
Ant 3 Radio 2 5G Full 5G High	- 45 POL	1	-	14	14	14	14	-	-	-	-	-	-	-
	+ 45 POL	2	-	14	14	14	14	-	-	-	-	-	-	-
	+ 45 POL	3	-	14	14	14	14	-	-	-	-	-	-	-
	- 45 POL	4	-	14	14	14	14	-	-	-	-	-	-	-
Ant 3 Radio 3 6G Full 6G Low	- 45 POL	1	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-
	+ 45 POL	2	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-
	+ 45 POL	3	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-
	- 45 POL	4	-	-	-	-	-	11.57	11.57	11.57	11.57	-	-	-



Ant.	POL	Port	Antenna Net Gain (dB)											
			2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
Ant 4 Radio 1 2.4G 5G Low	V-POL	1	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
	H-POL	2	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
	V-POL	3	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
	H-POL	4	9.72	13.14	13.14	-	-	-	-	-	-	-	-	-
Ant 4 Radio 2 5G Full 5G High	V-POL	1	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
	H-POL	2	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
	V-POL	3	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
	H-POL	4	-	12.75	12.75	12.75	12.75	-	-	-	-	-	-	-
Ant 5	-	1	-	-	-	-	-	3.07	1.66	1.81	2.55	-	-	-
Ant 6	-	2	-	-	-	-	-	1.58	2.4	1.89	1.7	-	-	-
Ant 7	-	3	-	-	-	-	-	2.68	2.33	0.77	1.87	-	-	-
Ant 8	-	4	-	-	-	-	-	1.42	1.16	-0.31	0.82	-	-	-
Ant 9	-	1	2.42	4.11	4.34	5.46	3.49	3.46	4.88	5.13	4.76	-	-	-
Ant 10	-	2	2.86	3.32	3.52	3.7	4.34	5.68	4.13	4.75	4.59	-	-	-
Ant 11	-	1	-	-	-	-	-	-	-	-	-	3.6	3.6	-
Ant 12	-	2	-	-	-	-	-	-	-	-	-	5.7	5.7	-
Ant 13	-	3	-	-	-	-	-	-	-	-	-	2.7	2.7	-
Ant 14	-	4	-	-	-	-	-	-	-	-	-	1.95	1.95	-
Ant 15	-	1	-	-	-	-	-	-	-	-	-	-	-	4.7
Ant 16	-	2	-	-	-	-	-	-	-	-	-	-	-	5.4
Ant 17	-	3	-	-	-	-	-	-	-	-	-	-	-	4.8
Ant 18	-	4	-	-	-	-	-	-	-	-	-	-	-	4.4

Ant.		Composite Gain (dBi) for 4TX									
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	
Ant 5~8 Radio 3 6G Full 6G Low	DG [1SS]	-	-	-	-	-	6.11	5.89	4.62	5.39	
	DG [4SS]	-	-	-	-	-	5.8	5.13	4.62	5.28	

Ant.		Composite Gain (dBi) for 2TX									
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	
Ant 5~8 Radio 3 6G Full 6G Low	DG [1SS]	-	-	-	-	-	6.33	6.5	5.7	5.91	
	DG [2SS]	-	-	-	-	-	5.8	5.13	4.62	5.28	
Ant 9~10 Radio 4 Scan	DG [1SS]	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.76	
	DG [2SS]	2.86	4.11	4.34	5.46	4.34	5.68	4.88	5.13	4.76	



Note 1: The EUT has eighteen antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP5O0964B. (Ant 5~10)

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/4RX) (Radio 1)

Ant. 1 or Ant. 2 or Ant.4 could transmit/receive.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/4RX) (Radio 1)

Ant. 1 or Ant. 2 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) (Radio 1)

Ant. 1 or Ant. 2 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Scan Radio)

Ant. 9~10 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 1_Low Band)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 1_Low Band)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 1_Low Band)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 2)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 2)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 2)

Ant. 1 or Ant. 2 or Ant.3 or Ant.4 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Scan Radio)

Ant. 9~10 could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 1_High Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 1_High Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 1_High Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 3_Low Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive.

Ant. 5 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3_Low Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

Ant. 5~6 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3_Low Band)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

Ant. 5~8 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 3)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive.

Ant. 5 could transmit/receive.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

Ant. 5~6 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3)

Ant. 1 or Ant. 2 or Ant.3 could transmit/receive simultaneously.

Ant. 5~8 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX) (Scan Radio)

Ant. 9~10 could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 11 or Ant.12 or Ant 13 or Ant 14 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 2 and it was recorded in this test report.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 11 or Ant.12 or Ant 13 or Ant 14 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 2 and it was recorded in this test report.

For UWB function(2TX/4RX):

Ant. 15 and Ant 17 could transmit.

Ant. 15~18 could receive.

Note 3: Directional gain information (Ant 1~4)

	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{BI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 Type of EUT

Operational Condition	
EUT Power Type	From AC Adapter / PoE
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
☐	Other:

1.1.4 Test Signal Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	0.161	7.93	321.875u	5k
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	0.158	8.01	318.75u	5k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.1.5 Operational Restriction

Operation Restriction	Informed the applicant	Not applicable	User Manual Informed	Passed
☒ Indoor UWB devices & Fixed indoor infrastructure				
Must be capable of operation only indoors. The necessity to operate with a fixed indoor infrastructure. [A transmitter that had been connected to the AC power lines and operates solely through the AC mains. Or The device under test operates solely through USB port of a PC. It is not intended to operate from any other power source and be considered sufficient to demonstrate a fixed indoor infrastructure]	☒	☐	☐	☒
☒ Emissions from equipment				
The emissions from equipment operated shall not be intentionally directed outside of the building in which the equipment is located, such as through a window or a doorway, to perform an outside function, such as the detection of persons about to enter a building. [The applicant has been informed of this requirement.]	☒	☐	☐	☒
☒ Outdoor mounted antennas				
The use of outdoor mounted antennas, e.g., antennas mounted on the outside of a building or on a telephone pole, or any other outdoors infrastructure is prohibited. [The applicant has been informed without any outdoor mounted antennas.]	☒	☐	☐	☒
☒ Field disturbance sensors install				
Field disturbance sensors installed inside of metal or underground storage tanks are considered to operate indoors provided the emissions are directed towards the ground. [Not applicable for this client.]	☐	☒	☐	☒
☒ A communications system shall transmit only				
A communications system shall transmit only when the intentional radiator is sending information to an associated receiver. [The applicant has been informed of this requirement and is clearly stated on the user manual.]	☒	☐	☒	☐

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020 + Cor.1-2023 + C63.10a-2024 + Errata to C63.10a-2024

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

- ♦ KDB 393764 D01 v02
- ♦ KDB 412172 D01 v01r01

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Lego Lin	23.1~23.9℃ / 56~62%	24/Feb/2026
Radiated	03CH02-HY	Vasari Huang	22.2~23.4℃ / 50~52%	27/Nov/2025~11/Dec/2025
☐ Wenhua 3rd. (TAF: 3785)	ADD: No. 58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Guishan Dist. Taoyuan City 333, Taiwan (R.O.C.)			
	TEL: 886-3-327-0868			
Test site Designation No. TW0036 with FCC.				

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Power-line Conducted Emissions	3.44 dB	Confidence levels of 95%
UWB Bandwidth	0.05 MHz	Confidence levels of 95%
Unwanted Emissions (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Unwanted Emissions (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Unwanted Emissions (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Unwanted Emissions (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 The Worst Case Configuration

Worst Modulation Used for Conformance Testing			
Mode	Transmit Chains (N _{TX})	Data Rate	Test Channel Frequencies (MHz)
UWB	1	499.2Mbps	7987.2

2.3 The Worse Case Power Setting Parameter

Test Software Version	Putty Release 0.62
-----------------------	--------------------

Mode	Power Setting
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-
7987.2MHz	6b
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	
7987.2MHz	5e

2.4 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	PoE mode; UWB TX (Port 1)
2	Adapter mode; UWB TX (Port 1)
3	PoE mode; UWB TX (Port 2)
4	Adapter mode; UWB TX (Port 2)

The Worst Case Mode for Following Conformance Tests			
Tests Item	UWB Bandwidth, Peak Emissions within a 50 MHz Bandwidth, Radiated Emissions		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode	CTX		
1	PoE mode		
2	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.5 Accessories

Accessories				
Bracket	Brand Name	Extreme	Model Name	AH-ACC-BKT-TB

Reminder: Regarding to more detail and other information, please refer to user manual.

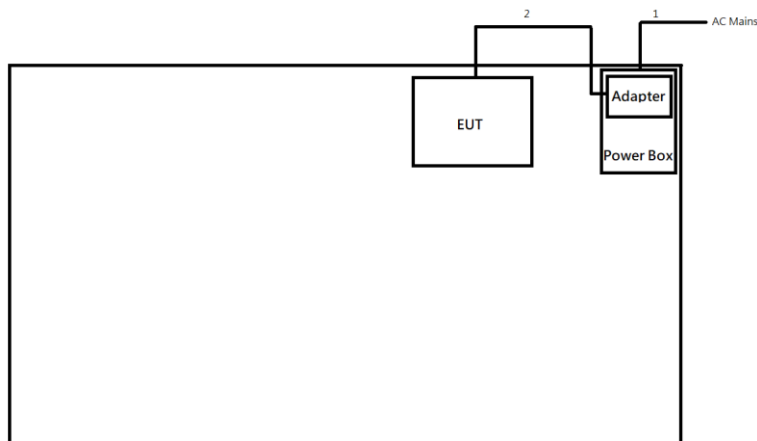
2.6 Support Equipment

Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-03	-	-
2	Adapter	Powertron	PA1045-120HIB300	-	Provided by Customer
3	PoE	Microsemi	PD-9501-10GC/AC	-	Provided by Customer
4	AC power cable	Power sync	PW-GPC180-3	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	RJ-45 Cable	Power sync	CAT-6E-03	-	-
2	Adapter	Powertron	PA1045-120HIB300	-	Provided by Customer
3	PoE (Remote)	Microsemi Corp.	PD-9501-10GC/AC	-	Provided by Customer
4	AC power cable (Remote)	Power sync	PW-GPC180-3	-	-

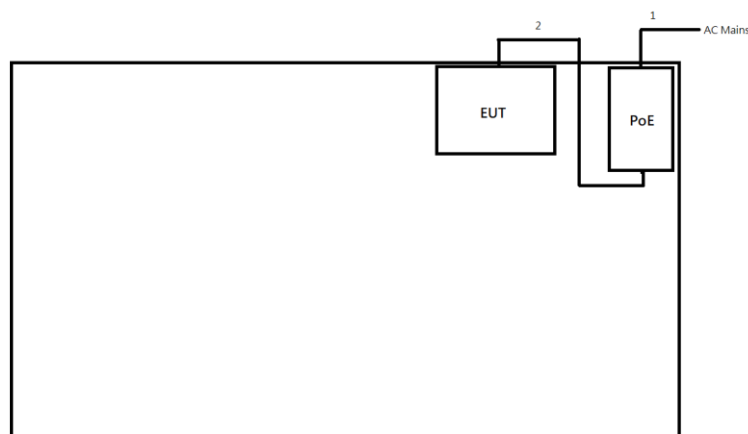
2.7 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test_Adapter mode

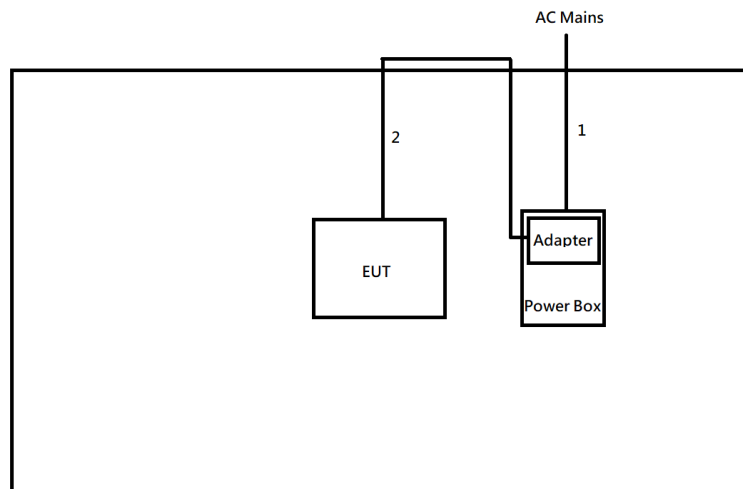


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

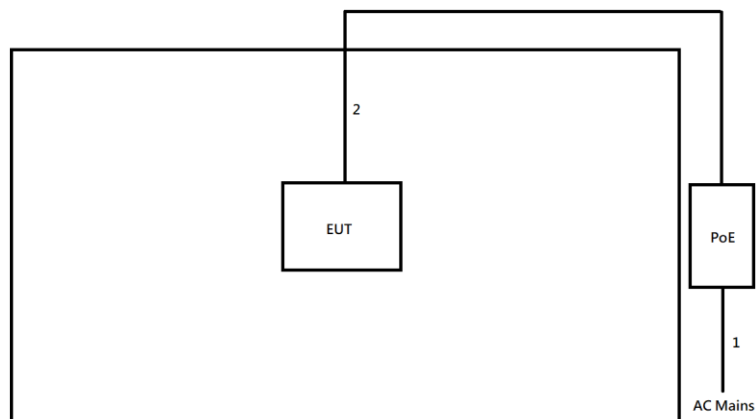
Test Setup Diagram – AC Line Conducted Emission Test_PoE mode



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	RJ-45 Cable	No	3.0	-

Test Setup Diagram - Radiated Test_Adapter mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	1.5	-

Test Setup Diagram - Radiated Test_PoE mode


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	RJ-45 Cable	No	3.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line 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 1: * Decreases with the logarithm of the frequency.

3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

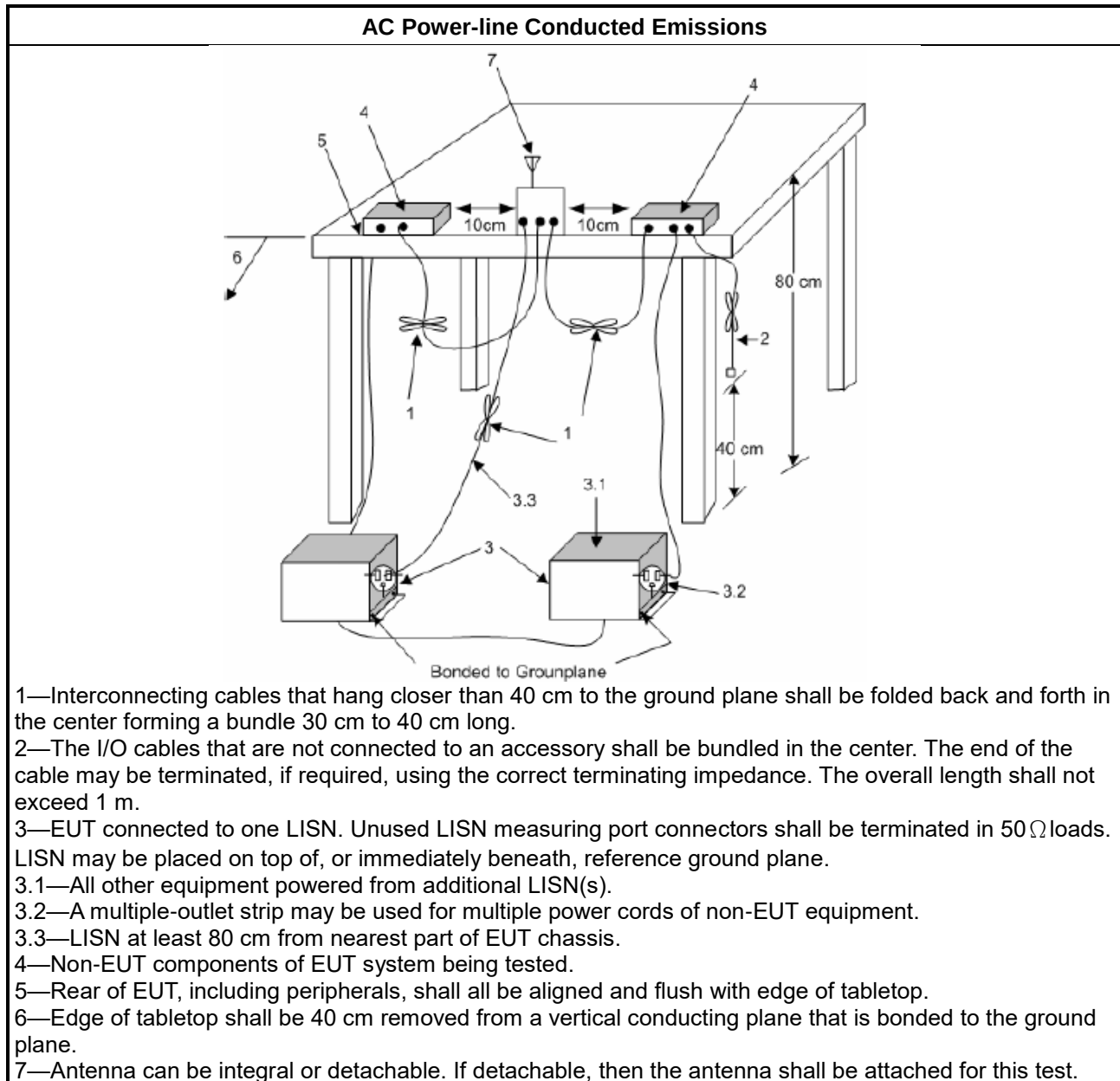
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

3.1.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.1.5 Test Setup



3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 UWB bandwidth

3.2.1 UWB bandwidth Limit

UWB bandwidth Limit	
☒	UWB bandwidth ≥ 500 MHz or Fractional bandwidth ≥ 0.2 ; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$
☒	The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

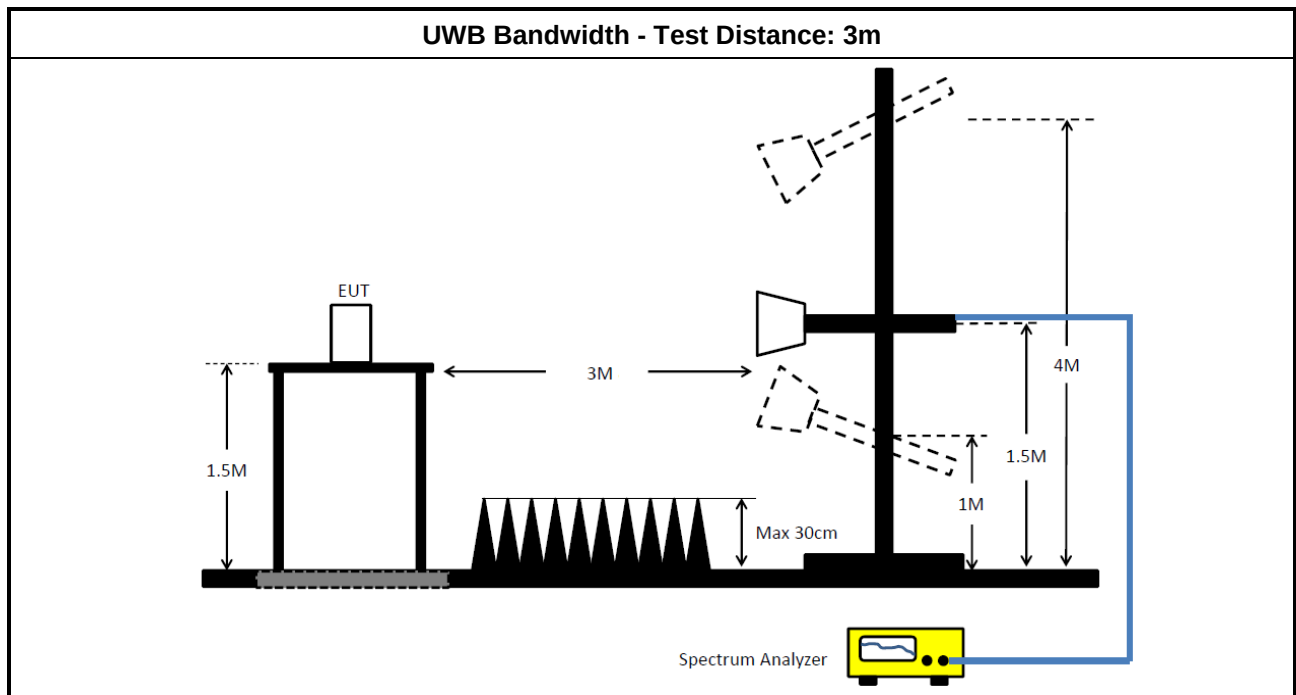
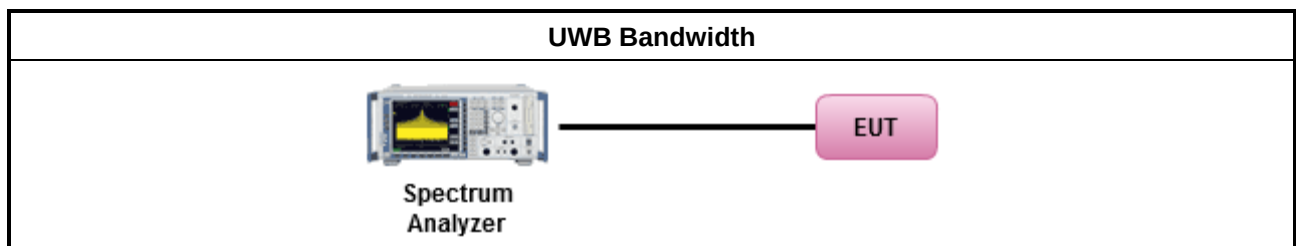
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
☒	For the UWB bandwidth shall be measured using one of the options below:
☒	Refer as ANSI C63.10, clause 6.9.3 and clause 10.1 for UWB bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of UWB Bandwidth

Refer as Appendix B

3.3 Peak Emissions within a 50 MHz Bandwidth

3.3.1 Peak Emissions within a 50 MHz Bandwidth Limit

Peak Emissions within a 50 MHz Bandwidth Limit
$P_{eirr} = 0 \text{ dBm/50MHz}$

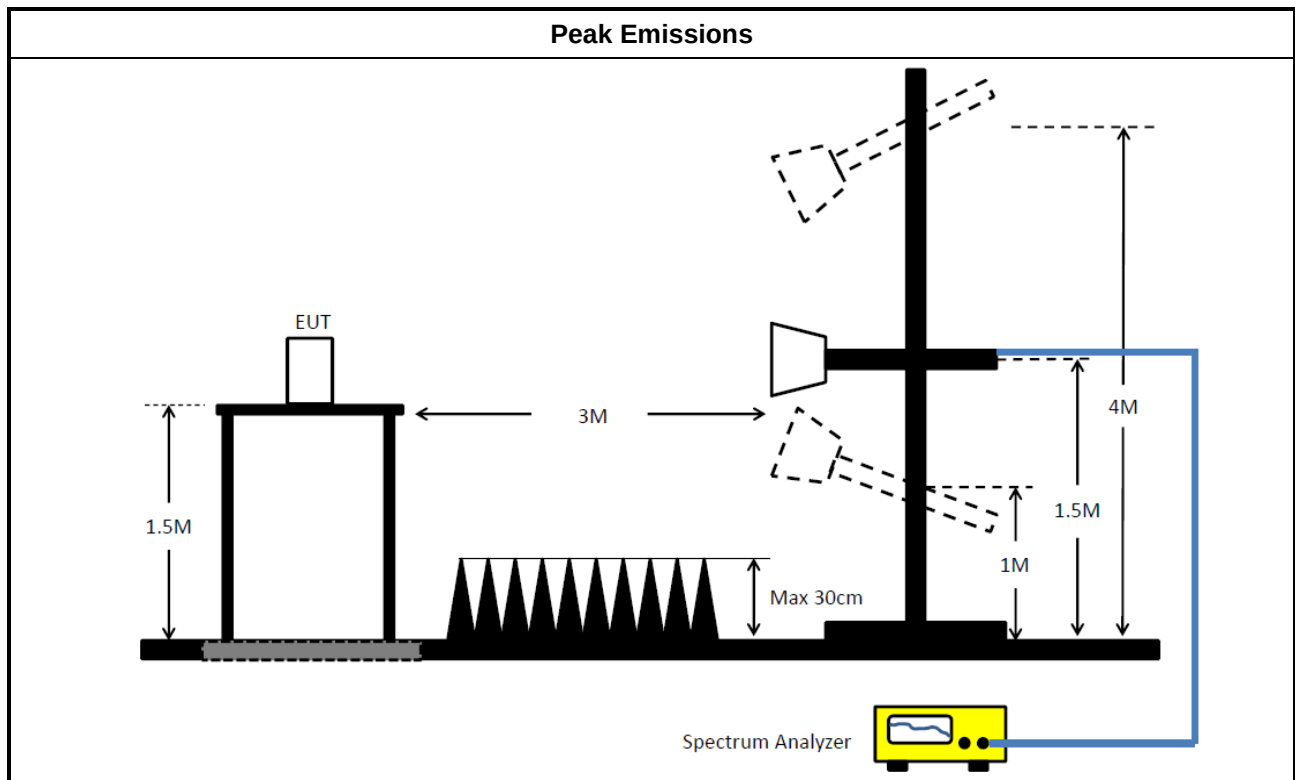
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method
☒ Peak Emissions within a 50 MHz Bandwidth
☒ Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
☒ Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m.
☒ Refer as ANSI C63.10, clause 10.3.5 for peak detector procedure testing.
☐ Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power. $EIRP_{50MHz} = EIRP_{1MHz} - 20 \log(1MHz/50MHz)$

3.3.4 Test Setup



3.3.5 Test Result of Peak Emissions within a 50 MHz Bandwidth

Refer as Appendix C

3.4 Radiated Emissions

3.4.1 Radiated Emissions Limit

Radiated Emissions below 960MHz and Emissions from Digital Circuitry Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Radiated Emissions above 960MHz Limit	
Frequency Range (MHz)	EIRP (dBm)
960-1610	-75.3
1610-1990	-53.3
1990-3100	-51.3
3100-10600	-41.3
Above 10600	-51.3

Radiated Emissions in GPS Bands Limit	
Frequency Range (MHz)	EIRP (dBm)
1164-1240	-85.3
1559-1610	-85.3

3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method for Radiated Emissions above 960MHz	
☒	Radiated Emissions above 960MHz
☒	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
☒	Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m. In some cases, it may be necessary to measure the radiated UWB emissions at a closer distance to obtain enough signal and margin to overcome the measurement system noise floor. Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
☒	Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.
☒	Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).
☒	Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW≥1kHz).
☒	For radiated measurement.
☒	Refer as KDB 412172, clause 2.2 following eirp can be used radiated test configuration.
☒	Refer as KDB 412172, clause 5 following eirp can be directly determined using the field strength.
☐	Refer as KDB 412172, clause 6 following eirp can be used signal/antenna substitution techniques.

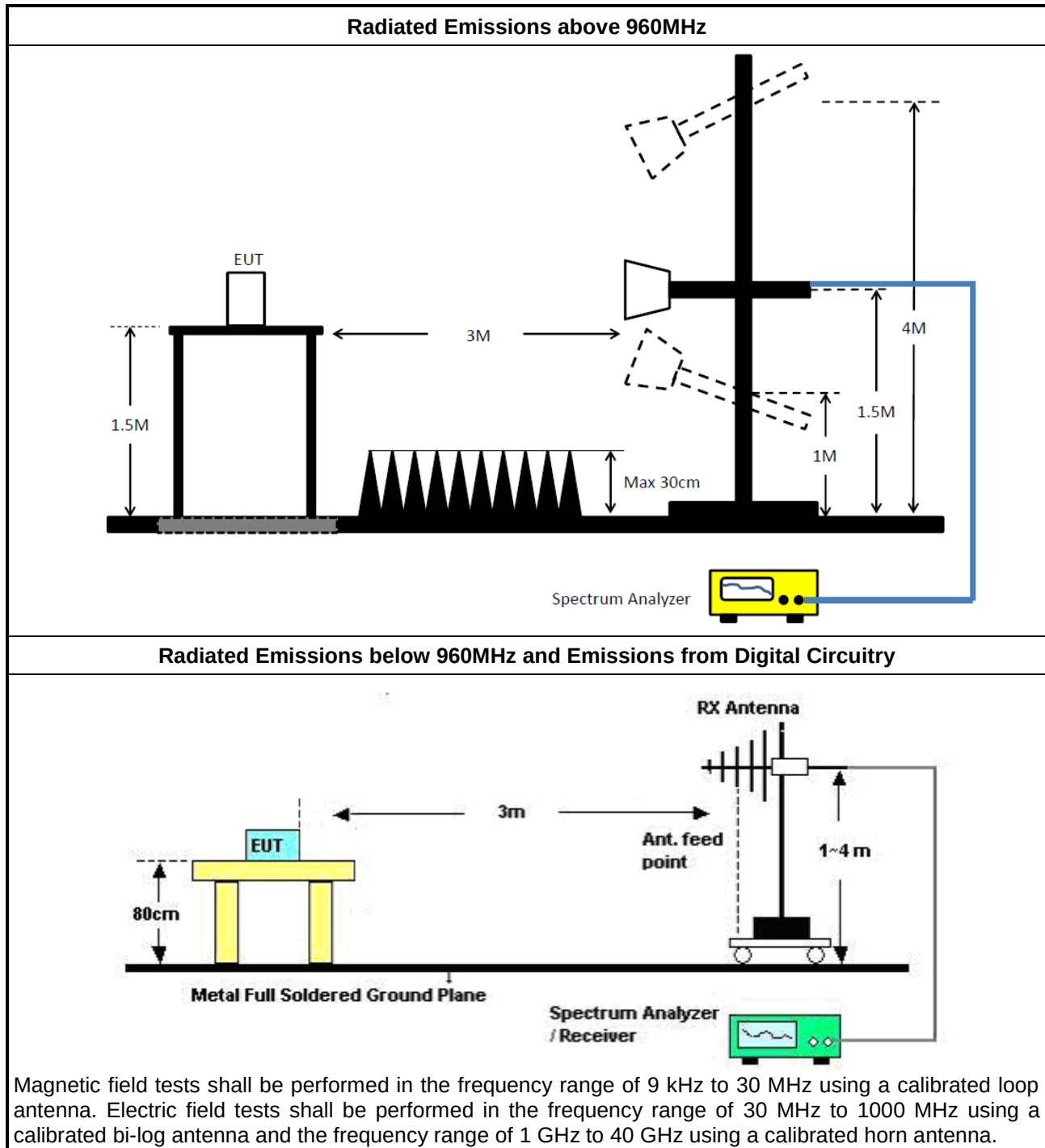
Test Method for Radiated Emissions below 960MHz and Emissions from Digital Circuitry	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as ANSI C63.10, clause 4.1.5.2.3 (Reduced VBW) – Duty cycle ≥ 100%.
☐	Refer as ANSI C63.10, clause 4.1.5.2.5 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from 20log (dwell time/100 ms). Average emission = peak emission + 20 log (duty cycle).
☒	Refer as ANSI C63.10, clause 4.1.5.2.2 measurement procedure peak limit.
☒	For radiated measurement.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.

3.4.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.4.5 Test Setup



3.4.6 Radiated Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.4.7 Test Result of Radiated Emissions

Refer as Appendix D

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMI Test Receiver	ROHDE & SCHWARZ	ESR3	102051	9kHz ~ 3.6GHz	21/May/2025	20/May/2026
Two-Line V-Network	ROHDE & SCHWARZ	ENV 216	101578	9kHz ~ 30MHz	24/Aug/2025	23/Aug/2026
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Pulse Limiter	SCHWARZBECK	VTSD 9561F-N	1056	9kHz ~ 30MHz	25/Jun/2025	24/Jun/2026
Software	Sporton	SENSE-EMI	V5.11.6	-	NCR	NCR

NCR: No Calibration Required

Instrument for Radiated Test (03CH02-HY)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
N.S.A. Measurement	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3M	12/Jul/2025	11/Jul/2026
Site V.S.W.R	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3M	12/Jul/2025	11/Jul/2026
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	ROHDE & SCHWARZ	FSV3044	101750	10Hz~44GHz	10/Apr/2025	09/Apr/2026
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	20/Mar/2025	19/Mar/2026
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723/2	30MHz~1GHz	25/Aug/2025	24/Aug/2026
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	03/Oct/2025	02/Oct/2026
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	02/Jul/2025	01/Jul/2026
RF Cable	MVE	400LL+SN 200207	03CH02-cable-05	9kHz~1GHz	08/Aug/2025	07/Aug/2026
RF Cable HUBER+SUHNER	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-06	1GHz~40GHz	15/Aug/2025	14/Aug/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	27/Jun/2025	26/Jun/2026
Amplifier	EM	EM01G18GA	060933	1GHz~18GHz	14/Jul/2025	13/Jul/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	30/Sep/2025	29/Sep/2026
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	26/Apr/2025	25/Apr/2026
SENSE-UWB	Sporton	V5.11.15	N/A	N/A	N/A	N/A

Summary

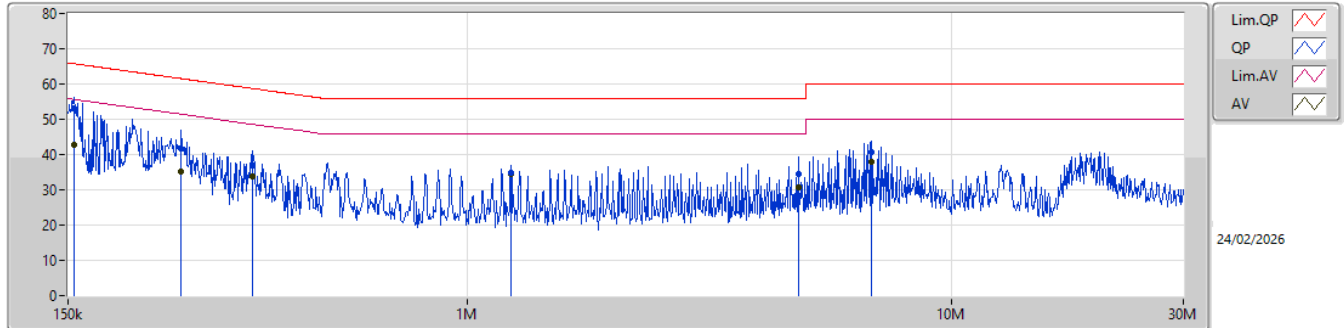
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.87k	55.68	65.73	-10.05	Neutral
Mode 2	Pass	QP	169.76k	55.22	64.97	-9.75	Line
Mode 3	Pass	QP	156.73k	54.22	65.64	-11.42	Line
Mode 4	Pass	AV	257.12k	35.89	51.53	-15.64	Line

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	154.25k	52.95	65.77	-12.82	Line
Mode 1	Pass	AV	154.25k	42.77	55.77	-13.00	Line
Mode 1	Pass	QP	257.12k	41.81	61.53	-19.72	Line
Mode 1	Pass	AV	257.12k	35.28	51.53	-16.25	Line
Mode 1	Pass	QP	359.56k	36.93	58.73	-21.80	Line
Mode 1	Pass	AV	359.56k	33.74	48.73	-14.99	Line
Mode 1	Pass	QP	1.23M	34.79	56.00	-21.21	Line
Mode 1	Pass	AV	1.23M	34.34	46.00	-11.66	Line
Mode 1	Pass	QP	4.82M	34.58	56.00	-21.42	Line
Mode 1	Pass	AV	4.82M	30.77	46.00	-15.23	Line
Mode 1	Pass	QP	6.82M	40.73	60.00	-19.27	Line
Mode 1	Pass	AV	6.82M	38.07	50.00	-11.93	Line
Mode 1	Pass	QP	154.87k	55.68	65.73	-10.05	Neutral
Mode 1	Pass	AV	154.87k	45.42	55.73	-10.31	Neutral
Mode 1	Pass	QP	250.04k	38.84	61.76	-22.92	Neutral
Mode 1	Pass	AV	250.04k	31.64	51.76	-20.12	Neutral
Mode 1	Pass	QP	362.45k	32.49	58.68	-26.19	Neutral
Mode 1	Pass	AV	362.45k	26.36	48.68	-22.32	Neutral
Mode 1	Pass	QP	2.07M	26.98	56.00	-29.02	Neutral
Mode 1	Pass	AV	2.07M	25.29	46.00	-20.71	Neutral
Mode 1	Pass	QP	4.87M	35.35	56.00	-20.65	Neutral
Mode 1	Pass	AV	4.87M	31.45	46.00	-14.55	Neutral
Mode 1	Pass	QP	6.58M	33.81	60.00	-26.19	Neutral
Mode 1	Pass	AV	6.58M	22.54	50.00	-27.46	Neutral
Mode 2	Pass	QP	169.76k	55.22	64.97	-9.75	Line
Mode 2	Pass	AV	169.76k	39.22	54.97	-15.75	Line
Mode 2	Pass	QP	254.06k	43.55	61.62	-18.07	Line
Mode 2	Pass	AV	254.06k	35.49	51.62	-16.13	Line
Mode 2	Pass	QP	358.13k	34.09	58.77	-24.68	Line
Mode 2	Pass	AV	358.13k	26.47	48.77	-22.30	Line
Mode 2	Pass	QP	2.07M	32.81	56.00	-23.19	Line
Mode 2	Pass	AV	2.07M	29.54	46.00	-16.46	Line
Mode 2	Pass	QP	3.87M	23.93	56.00	-32.07	Line
Mode 2	Pass	AV	3.87M	19.81	46.00	-26.19	Line
Mode 2	Pass	QP	12.91M	27.16	60.00	-32.84	Line
Mode 2	Pass	AV	12.91M	22.51	50.00	-27.49	Line
Mode 2	Pass	QP	169.76k	54.37	64.97	-10.60	Neutral
Mode 2	Pass	AV	169.76k	38.39	54.97	-16.58	Neutral
Mode 2	Pass	QP	254.06k	42.61	61.62	-19.01	Neutral
Mode 2	Pass	AV	254.06k	34.80	51.62	-16.82	Neutral
Mode 2	Pass	QP	389.45k	34.65	58.08	-23.43	Neutral
Mode 2	Pass	AV	389.45k	25.87	48.08	-22.21	Neutral
Mode 2	Pass	QP	2.07M	32.26	56.00	-23.74	Neutral
Mode 2	Pass	AV	2.07M	28.91	46.00	-17.09	Neutral
Mode 2	Pass	QP	2.82M	25.84	56.00	-30.16	Neutral
Mode 2	Pass	AV	2.82M	21.31	46.00	-24.69	Neutral
Mode 2	Pass	QP	21.01M	25.60	60.00	-34.40	Neutral
Mode 2	Pass	AV	21.01M	20.69	50.00	-29.31	Neutral
Mode 3	Pass	QP	156.73k	54.22	65.64	-11.42	Line
Mode 3	Pass	AV	156.73k	44.10	55.64	-11.54	Line

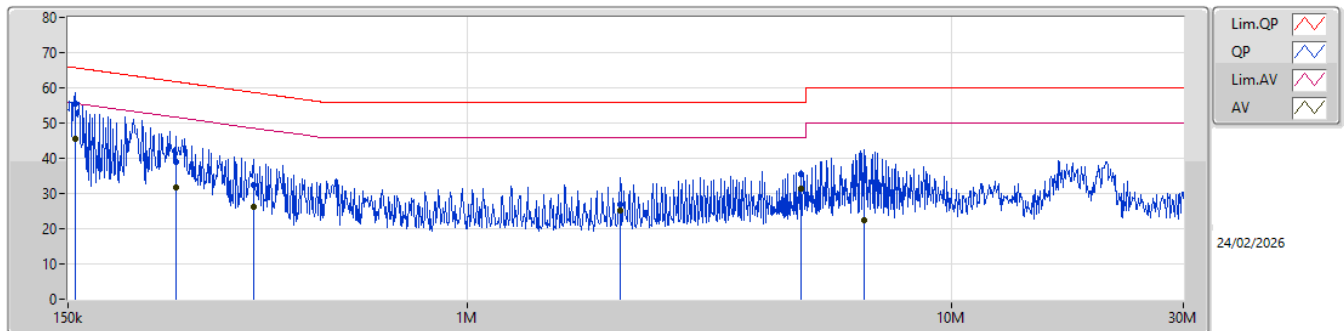
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	QP	254.06k	40.81	61.62	-20.81	Line
Mode 3	Pass	AV	254.06k	35.35	51.62	-16.27	Line
Mode 3	Pass	QP	359.56k	32.52	58.73	-26.21	Line
Mode 3	Pass	AV	359.56k	25.47	48.73	-23.26	Line
Mode 3	Pass	QP	2.07M	36.58	56.00	-19.42	Line
Mode 3	Pass	AV	2.07M	33.06	46.00	-12.94	Line
Mode 3	Pass	QP	4.87M	36.41	56.00	-19.59	Line
Mode 3	Pass	AV	4.87M	32.72	46.00	-13.28	Line
Mode 3	Pass	QP	6.84M	35.02	60.00	-24.98	Line
Mode 3	Pass	AV	6.84M	31.33	50.00	-18.67	Line
Mode 3	Pass	QP	151.2k	50.59	65.92	-15.33	Neutral
Mode 3	Pass	AV	151.2k	40.45	55.92	-15.47	Neutral
Mode 3	Pass	QP	252.04k	38.32	61.70	-23.38	Neutral
Mode 3	Pass	AV	252.04k	29.60	51.70	-22.10	Neutral
Mode 3	Pass	QP	361k	32.78	58.70	-25.92	Neutral
Mode 3	Pass	AV	361k	27.46	48.70	-21.24	Neutral
Mode 3	Pass	QP	2.07M	30.86	56.00	-25.14	Neutral
Mode 3	Pass	AV	2.07M	28.04	46.00	-17.96	Neutral
Mode 3	Pass	QP	4.93M	35.61	56.00	-20.39	Neutral
Mode 3	Pass	AV	4.93M	31.09	46.00	-14.91	Neutral
Mode 3	Pass	QP	6.95M	25.23	60.00	-34.77	Neutral
Mode 3	Pass	AV	6.95M	20.30	50.00	-29.70	Neutral
Mode 4	Pass	QP	150.6k	46.41	65.96	-19.55	Line
Mode 4	Pass	AV	150.6k	35.50	55.96	-20.46	Line
Mode 4	Pass	QP	257.12k	43.59	61.53	-17.94	Line
Mode 4	Pass	AV	257.12k	35.89	51.53	-15.64	Line
Mode 4	Pass	QP	352.46k	35.53	58.91	-23.38	Line
Mode 4	Pass	AV	352.46k	26.56	48.91	-22.35	Line
Mode 4	Pass	QP	2.07M	33.05	56.00	-22.95	Line
Mode 4	Pass	AV	2.07M	29.98	46.00	-16.02	Line
Mode 4	Pass	QP	4.24M	23.60	56.00	-32.40	Line
Mode 4	Pass	AV	4.24M	19.68	46.00	-26.32	Line
Mode 4	Pass	QP	13.6M	29.22	60.00	-30.78	Line
Mode 4	Pass	AV	13.6M	24.56	50.00	-25.44	Line
Mode 4	Pass	QP	155.49k	46.54	65.69	-19.15	Neutral
Mode 4	Pass	AV	155.49k	33.30	55.69	-22.39	Neutral
Mode 4	Pass	QP	252.04k	41.92	61.70	-19.78	Neutral
Mode 4	Pass	AV	252.04k	33.79	51.70	-17.91	Neutral
Mode 4	Pass	QP	394.14k	34.46	57.97	-23.51	Neutral
Mode 4	Pass	AV	394.14k	25.21	47.97	-22.76	Neutral
Mode 4	Pass	QP	2.07M	32.22	56.00	-23.78	Neutral
Mode 4	Pass	AV	2.07M	28.94	46.00	-17.06	Neutral
Mode 4	Pass	QP	4.78M	22.60	56.00	-33.40	Neutral
Mode 4	Pass	AV	4.78M	18.97	46.00	-27.03	Neutral
Mode 4	Pass	QP	13.6M	28.53	60.00	-31.47	Neutral
Mode 4	Pass	AV	13.6M	24.40	50.00	-25.60	Neutral

Conducted Emissions at Powerline_Mode 1



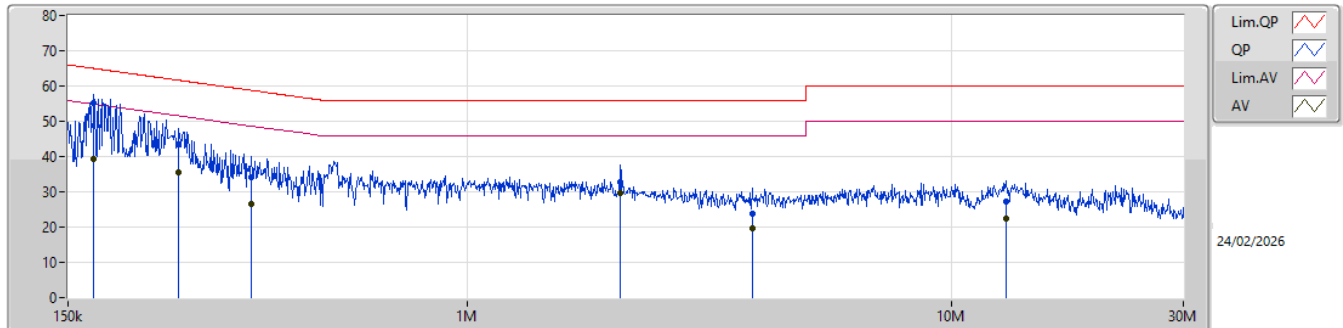
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QP	154.25k	52.95	65.77	-12.82	19.77	Line	33.18	9.64	0.01	10.12								
AV	154.25k	42.77	55.77	-13.00	19.77	Line	23.00	9.64	0.01	10.12								
QP	257.12k	41.81	61.53	-19.72	19.78	Line	22.03	9.64	0.02	10.12								
AV	257.12k	35.28	51.53	-16.25	19.78	Line	15.50	9.64	0.02	10.12								
QP	359.56k	36.93	58.73	-21.80	19.78	Line	17.15	9.63	0.03	10.12								
AV	359.56k	33.74	48.73	-14.99	19.78	Line	13.96	9.63	0.03	10.12								
QP	1.23M	34.79	56.00	-21.21	19.80	Line	14.99	9.64	0.04	10.12								
AV	1.23M	34.34	46.00	-11.66	19.80	Line	14.54	9.64	0.04	10.12								
QP	4.82M	34.58	56.00	-21.42	19.89	Line	14.69	9.67	0.09	10.13								
AV	4.82M	30.77	46.00	-15.23	19.89	Line	10.88	9.67	0.09	10.13								
QP	6.82M	40.73	60.00	-19.27	19.98	Line	20.75	9.68	0.16	10.14								
AV	6.82M	38.07	50.00	-11.93	19.98	Line	18.09	9.68	0.16	10.14								

Conducted Emissions at Powerline_Mode 1



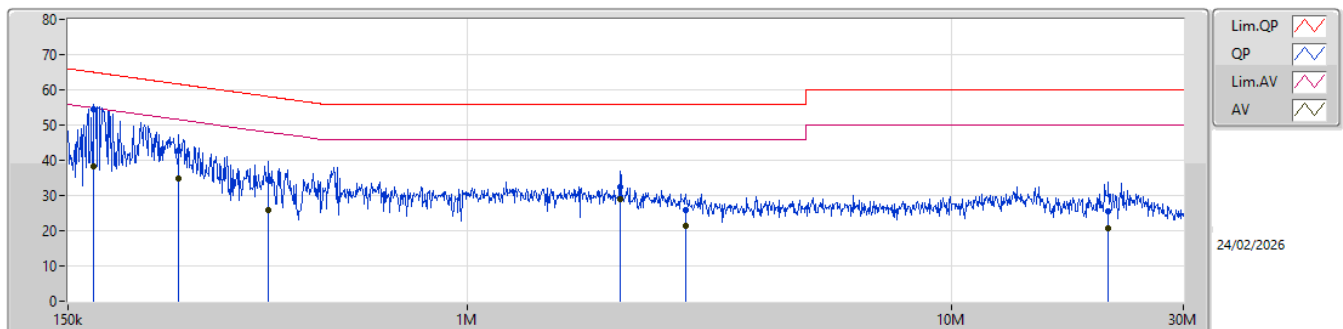
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QP	154.87k	55.68	65.73	-10.05	19.77	Neutral	35.91	9.64	0.01	10.12								
AV	154.87k	45.42	55.73	-10.31	19.77	Neutral	25.65	9.64	0.01	10.12								
QP	250.04k	38.84	61.76	-22.92	19.77	Neutral	19.07	9.63	0.02	10.12								
AV	250.04k	31.64	51.76	-20.12	19.77	Neutral	11.87	9.63	0.02	10.12								
QP	362.45k	32.49	58.68	-26.19	19.78	Neutral	12.71	9.63	0.03	10.12								
AV	362.45k	26.36	48.68	-22.32	19.78	Neutral	6.58	9.63	0.03	10.12								
QP	2.07M	26.98	56.00	-29.02	19.81	Neutral	7.17	9.65	0.03	10.13								
AV	2.07M	25.29	46.00	-20.71	19.81	Neutral	5.48	9.65	0.03	10.13								
QP	4.87M	35.35	56.00	-20.65	19.89	Neutral	15.46	9.67	0.09	10.13								
AV	4.87M	31.45	46.00	-14.55	19.89	Neutral	11.56	9.67	0.09	10.13								
QP	6.58M	33.81	60.00	-26.19	19.97	Neutral	13.84	9.68	0.15	10.14								
AV	6.58M	22.54	50.00	-27.46	19.97	Neutral	2.57	9.68	0.15	10.14								

Conducted Emissions at Powerline_Mode 2



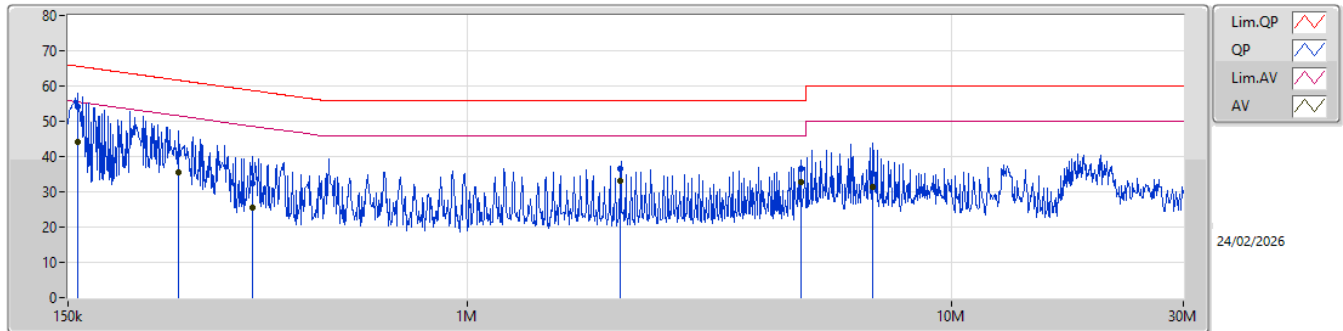
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	169.76k	55.22	64.97	-9.75	19.77	Line	35.45	9.64	0.01	10.12								
AV	169.76k	39.22	54.97	-15.75	19.77	Line	19.45	9.64	0.01	10.12								
QP	254.06k	43.55	61.62	-18.07	19.78	Line	23.77	9.64	0.02	10.12								
AV	254.06k	35.49	51.62	-16.13	19.78	Line	15.71	9.64	0.02	10.12								
QP	358.13k	34.09	58.77	-24.68	19.78	Line	14.31	9.63	0.03	10.12								
AV	358.13k	26.47	48.77	-22.30	19.78	Line	6.69	9.63	0.03	10.12								
QP	2.07M	32.81	56.00	-23.19	19.81	Line	13.00	9.65	0.03	10.13								
AV	2.07M	29.54	46.00	-16.46	19.81	Line	9.73	9.65	0.03	10.13								
QP	3.87M	23.93	56.00	-32.07	19.84	Line	4.09	9.66	0.05	10.13								
AV	3.87M	19.81	46.00	-26.19	19.84	Line	-0.03	9.66	0.05	10.13								
QP	12.91M	27.16	60.00	-32.84	20.06	Line	7.10	9.66	0.27	10.13								
AV	12.91M	22.51	50.00	-27.49	20.06	Line	2.45	9.66	0.27	10.13								

Conducted Emissions at Powerline_Mode 2



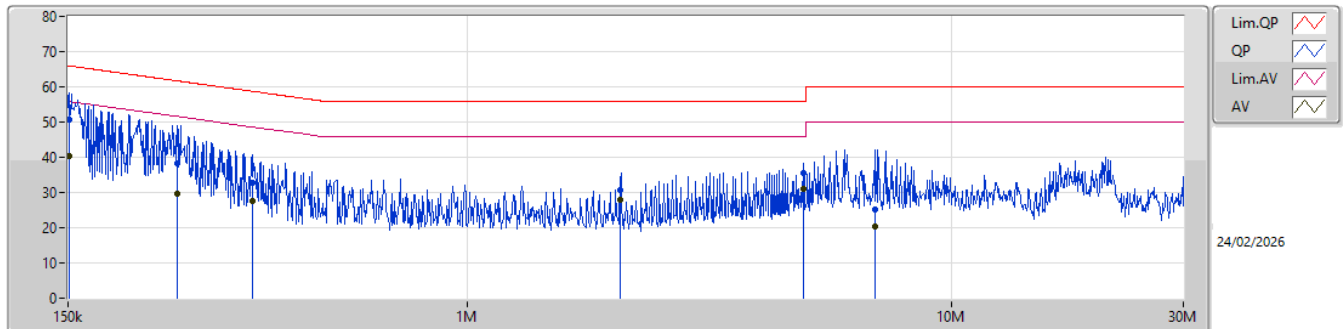
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)								
QP	169.76k	54.37	64.97	-10.60	19.77	Neutral	34.60	9.64	0.01	10.12								
AV	169.76k	38.39	54.97	-16.58	19.77	Neutral	18.62	9.64	0.01	10.12								
QP	254.06k	42.61	61.62	-19.01	19.77	Neutral	22.84	9.63	0.02	10.12								
AV	254.06k	34.80	51.62	-16.82	19.77	Neutral	15.03	9.63	0.02	10.12								
QP	389.45k	34.65	58.08	-23.43	19.78	Neutral	14.87	9.63	0.03	10.12								
AV	389.45k	25.87	48.08	-22.21	19.78	Neutral	6.09	9.63	0.03	10.12								
QP	2.07M	32.26	56.00	-23.74	19.81	Neutral	12.45	9.65	0.03	10.13								
AV	2.07M	28.91	46.00	-17.09	19.81	Neutral	9.10	9.65	0.03	10.13								
QP	2.82M	25.84	56.00	-30.16	19.82	Neutral	6.02	9.65	0.04	10.13								
AV	2.82M	21.31	46.00	-24.69	19.82	Neutral	1.49	9.65	0.04	10.13								
QP	21.01M	25.60	60.00	-34.40	20.12	Neutral	5.48	9.71	0.29	10.12								
AV	21.01M	20.69	50.00	-29.31	20.12	Neutral	0.57	9.71	0.29	10.12								

Conducted Emissions at Powerline_Mode 3



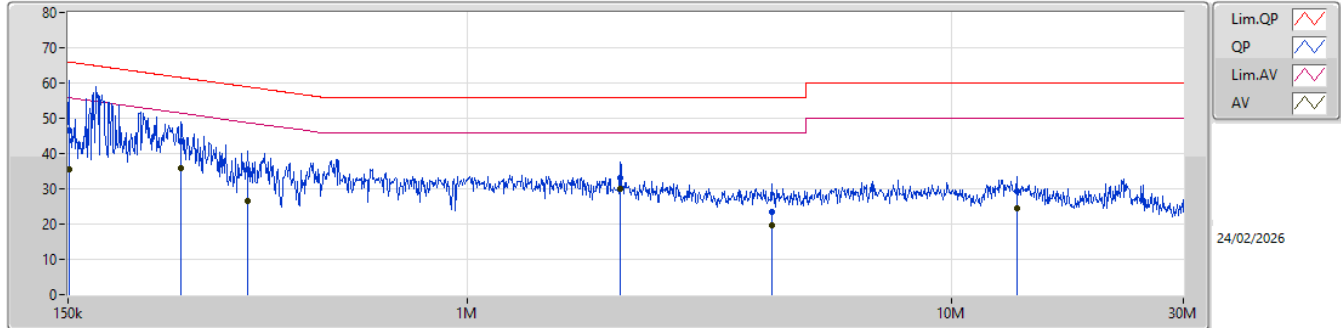
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	156.73k	54.22	65.64	-11.42	19.77	Line	34.45	9.64	0.01	10.12
AV	156.73k	44.10	55.64	-11.54	19.77	Line	24.33	9.64	0.01	10.12
QP	254.06k	40.81	61.62	-20.81	19.78	Line	21.03	9.64	0.02	10.12
AV	254.06k	35.35	51.62	-16.27	19.78	Line	15.57	9.64	0.02	10.12
QP	359.56k	32.52	58.73	-26.21	19.78	Line	12.74	9.63	0.03	10.12
AV	359.56k	25.47	48.73	-23.26	19.78	Line	5.69	9.63	0.03	10.12
QP	2.07M	36.58	56.00	-19.42	19.81	Line	16.77	9.65	0.03	10.13
AV	2.07M	33.06	46.00	-12.94	19.81	Line	13.25	9.65	0.03	10.13
QP	4.87M	36.41	56.00	-19.59	19.89	Line	16.52	9.67	0.09	10.13
AV	4.87M	32.72	46.00	-13.28	19.89	Line	12.83	9.67	0.09	10.13
QP	6.84M	35.02	60.00	-24.98	19.98	Line	15.04	9.68	0.16	10.14
AV	6.84M	31.33	50.00	-18.67	19.98	Line	11.35	9.68	0.16	10.14

Conducted Emissions at Powerline_Mode 3



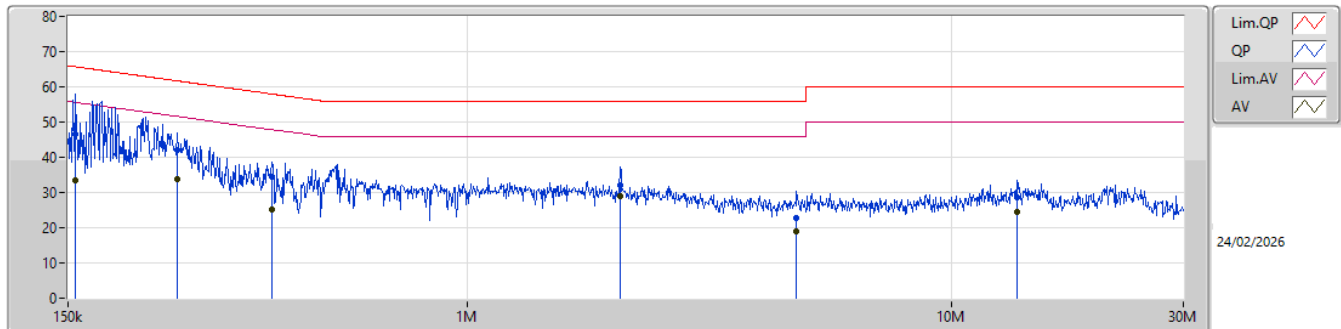
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	151.2k	50.59	65.92	-15.33	19.77	Neutral	30.82	9.64	0.01	10.12
AV	151.2k	40.45	55.92	-15.47	19.77	Neutral	20.68	9.64	0.01	10.12
QP	252.04k	38.32	61.70	-23.38	19.77	Neutral	18.55	9.63	0.02	10.12
AV	252.04k	29.60	51.70	-22.10	19.77	Neutral	9.83	9.63	0.02	10.12
QP	361k	32.78	58.70	-25.92	19.78	Neutral	13.00	9.63	0.03	10.12
AV	361k	27.46	48.70	-21.24	19.78	Neutral	7.68	9.63	0.03	10.12
QP	2.07M	30.86	56.00	-25.14	19.81	Neutral	11.05	9.65	0.03	10.13
AV	2.07M	28.04	46.00	-17.96	19.81	Neutral	8.23	9.65	0.03	10.13
QP	4.93M	35.61	56.00	-20.39	19.89	Neutral	15.72	9.67	0.09	10.13
AV	4.93M	31.09	46.00	-14.91	19.89	Neutral	11.20	9.67	0.09	10.13
QP	6.95M	25.23	60.00	-34.77	19.98	Neutral	5.25	9.68	0.16	10.14
AV	6.95M	20.30	50.00	-29.70	19.98	Neutral	0.32	9.68	0.16	10.14

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	150.6k	46.41	65.96	-19.55	19.77	Line	26.64	9.64	0.01	10.12
AV	150.6k	35.50	55.96	-20.46	19.77	Line	15.73	9.64	0.01	10.12
QP	257.12k	43.59	61.53	-17.94	19.78	Line	23.81	9.64	0.02	10.12
AV	257.12k	35.89	51.53	-15.64	19.78	Line	16.11	9.64	0.02	10.12
QP	352.46k	35.53	58.91	-23.38	19.78	Line	15.75	9.63	0.03	10.12
AV	352.46k	26.56	48.91	-22.35	19.78	Line	6.78	9.63	0.03	10.12
QP	2.07M	33.05	56.00	-22.95	19.81	Line	13.24	9.65	0.03	10.13
AV	2.07M	29.98	46.00	-16.02	19.81	Line	10.17	9.65	0.03	10.13
QP	4.24M	23.60	56.00	-32.40	19.85	Line	3.75	9.66	0.06	10.13
AV	4.24M	19.68	46.00	-26.32	19.85	Line	-0.17	9.66	0.06	10.13
QP	13.6M	29.22	60.00	-30.78	20.06	Line	9.16	9.66	0.27	10.13
AV	13.6M	24.56	50.00	-25.44	20.06	Line	4.50	9.66	0.27	10.13

Conducted Emissions at Powerline_Mode 4



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)
QP	155.49k	46.54	65.69	-19.15	19.77	Neutral	26.77	9.64	0.01	10.12
AV	155.49k	33.30	55.69	-22.39	19.77	Neutral	13.53	9.64	0.01	10.12
QP	252.04k	41.92	61.70	-19.78	19.77	Neutral	22.15	9.63	0.02	10.12
AV	252.04k	33.79	51.70	-17.91	19.77	Neutral	14.02	9.63	0.02	10.12
QP	394.14k	34.46	57.97	-23.51	19.78	Neutral	14.68	9.63	0.03	10.12
AV	394.14k	25.21	47.97	-22.76	19.78	Neutral	5.43	9.63	0.03	10.12
QP	2.07M	32.22	56.00	-23.78	19.81	Neutral	12.41	9.65	0.03	10.13
AV	2.07M	28.94	46.00	-17.06	19.81	Neutral	9.13	9.65	0.03	10.13
QP	4.78M	22.60	56.00	-33.40	19.89	Neutral	2.71	9.67	0.09	10.13
AV	4.78M	18.97	46.00	-27.03	19.89	Neutral	-0.92	9.67	0.09	10.13
QP	13.6M	28.53	60.00	-31.47	20.10	Neutral	8.43	9.70	0.27	10.13
AV	13.6M	24.40	50.00	-25.60	20.10	Neutral	4.30	9.70	0.27	10.13

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
3.1-10.6GHz	-	-	-	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	534M	1.181G	1G18D1D	534M	1.181G
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	525.75M	674.12M	674MD1D	525.75M	674.12M

Max-N dB = Maximum 10dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 10dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

**Result**

Mode	Result	Limit (Hz)	F _M (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-	-		-	-	-	-
7987.2MHz	Pass	500M	7832.03M	534M	1.181G		
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	-	-		-	-	-	-
7987.2MHz	Pass	500M	7830.53 M			525.75M	674.12M

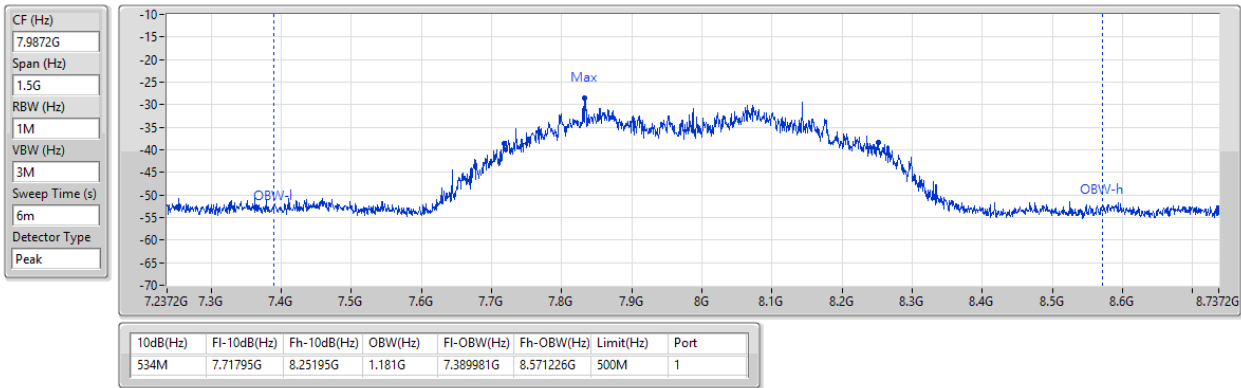
Port X-N dB = Port X 10dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

EBW

7987.2MHz

04/12/2025

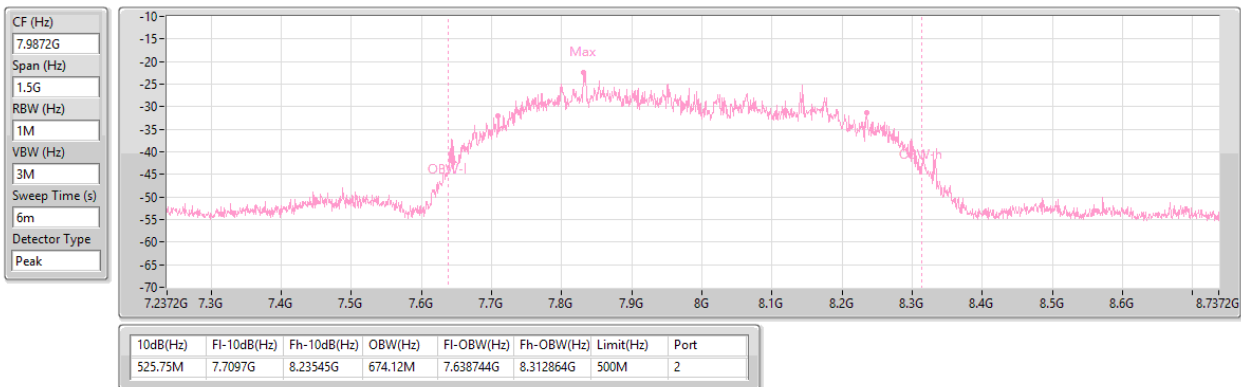


3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

EBW

7987.2MHz

04/12/2025





Summary

Mode	EIRP PD (dBm/50MHz)
3.1-10.6GHz	-
Ultra Wide Band_Nss1_1TX(Port2)	-0.20



Result

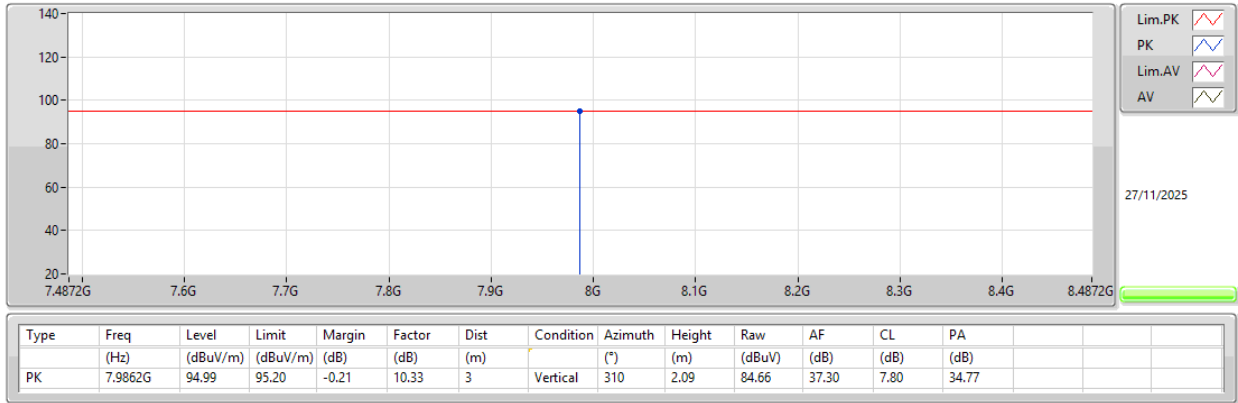
Mode	Result	Raw (dBuV/m)	RBW (MHz)	Factor (dB)	EIRP PD (dBm/50MHz)	EIRP PD Limit (dBm/50MHz)
Ultra Wide Band_Nss1_1TX(Port1)	-	-		-	-	-
7987.2 MHz	Pass	84.66	50	84.87	-0.21	0
Ultra Wide Band_Nss1_1TX(Port2)	-					-
7987.2 MHz	Pass	84.61	50	84.81	-0.20	0

Factor=20*log(RBW/50MHz) + 95.2 - (AF + CL - PA)

EIRP PD= Raw -Factor

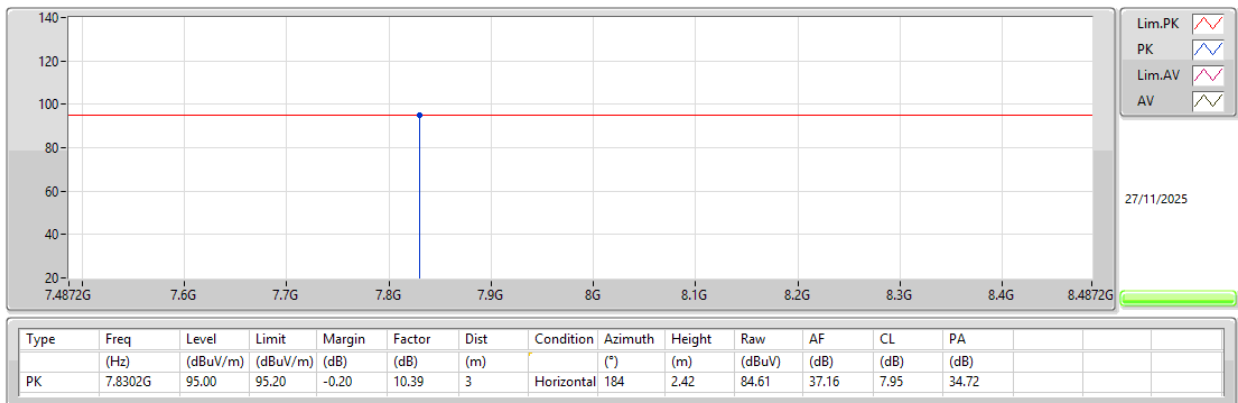
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX





Summary

Mode	EIRP PD (dBm/MHz)
3.1-10.6GHz	-
Ultra Wide Band_Nss1_1TX(Port2)	-46.02



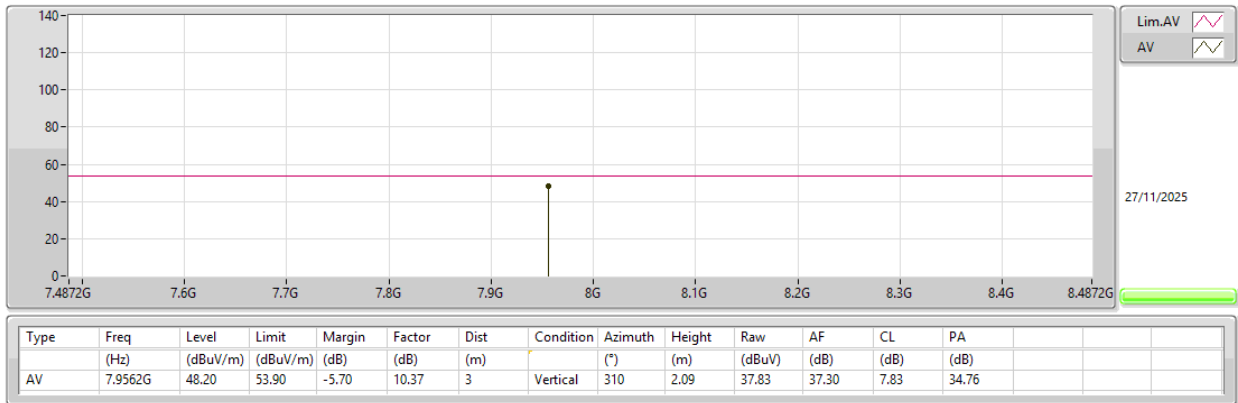
Result

Mode	Result	Raw (dBuV/m)	RBW (MHz)	Factor (dB)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
Ultra Wide Band_Nss1_1TX(Port1)	-	-		-	-	-
7987.2MHz	Pass	37.83	1	84.83	-47.00	-41.30
Ultra Wide Band_Nss1_1TX(Port2)	-				-	-
7987.2 MHz	Pass	38.79	1	84.81	-46.02	-41.30

EIRP PD= Raw - 95.2 + (AF + CL - PA)

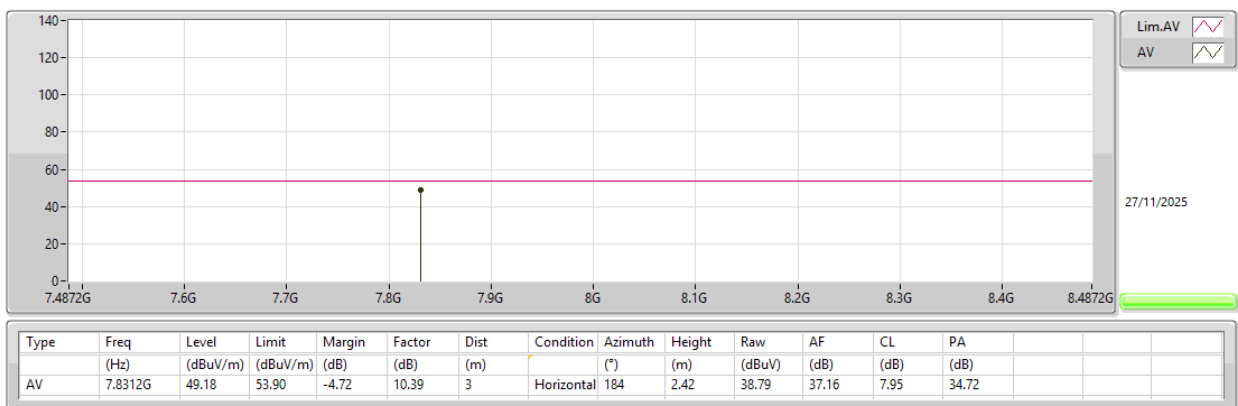
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
3.1-10.6GHz	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	Pass	PK	54.18M	36.29	40.00	-3.71	3	Vertical	0	1.00
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	Pass	PK	54.18M	35.87	40.00	-4.13	3	Vertical	0	1.00

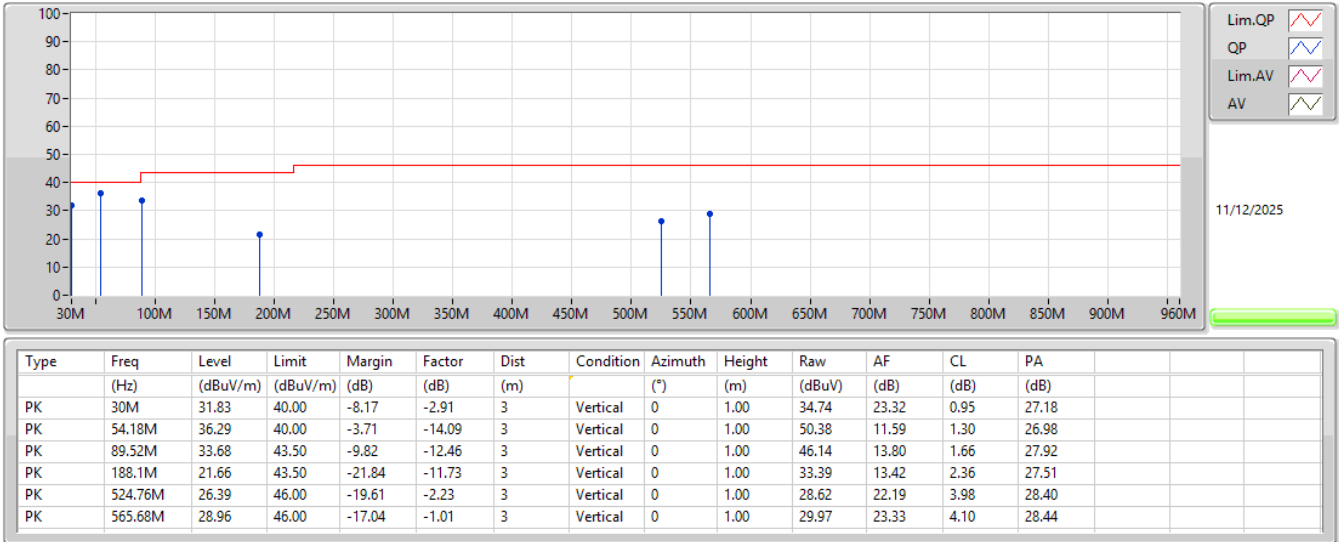
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
7987.2MHz_Adapter	Pass	PK	30M	31.83	40.00	-8.17	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	54.18M	36.29	40.00	-3.71	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	89.52M	33.68	43.50	-9.82	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	188.1M	21.66	43.50	-21.84	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	524.76M	26.39	46.00	-19.61	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	565.68M	28.96	46.00	-17.04	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	30M	30.83	40.00	-9.17	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	89.52M	31.20	43.50	-12.30	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	251.34M	24.57	46.00	-21.43	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	329.46M	27.95	46.00	-18.05	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	476.4M	27.67	46.00	-18.33	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	597.3M	27.93	46.00	-18.07	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	31.86M	31.39	40.00	-8.61	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	50.46M	30.57	40.00	-9.43	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	256.92M	22.78	46.00	-23.22	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	379.68M	25.28	46.00	-20.72	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	530.34M	27.15	46.00	-18.85	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	560.1M	28.69	46.00	-17.31	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	31.86M	26.78	40.00	-13.22	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	193.68M	24.50	43.50	-19.00	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	256.92M	27.20	46.00	-18.80	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	353.64M	28.85	46.00	-17.15	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	463.38M	27.20	46.00	-18.80	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	561.96M	27.05	46.00	-18.95	3	Horizontal	360	1.00
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
7987.2MHz_Adapter	Pass	PK	54.18M	35.87	40.00	-4.13	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	89.52M	33.26	43.50	-10.24	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	175.08M	21.77	43.50	-21.73	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	349.92M	23.55	46.00	-22.45	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	463.38M	24.08	46.00	-21.92	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	560.1M	29.94	46.00	-16.06	3	Vertical	0	1.00
7987.2MHz_Adapter	Pass	PK	30M	33.90	40.00	-6.10	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	89.52M	30.65	43.50	-12.85	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	173.22M	25.03	43.50	-18.47	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	329.46M	28.22	46.00	-17.78	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	474.54M	25.96	46.00	-20.04	3	Horizontal	360	1.00
7987.2MHz_Adapter	Pass	PK	565.68M	26.48	46.00	-19.52	3	Horizontal	360	1.00
7987.2MHz_PoE	Pass	PK	57.9M	35.07	40.00	-4.93	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	230.88M	23.50	46.00	-22.50	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	372.24M	24.82	46.00	-21.18	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	526.62M	28.68	46.00	-17.32	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	560.1M	29.94	46.00	-16.06	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	787.02M	31.26	46.00	-14.74	3	Vertical	0	1.00
7987.2MHz_PoE	Pass	PK	31.86M	29.84	40.00	-10.16	3	Horizontal	360	3.00

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
7987.2MHz_PoE	Pass	PK	46.74M	26.62	40.00	-13.38	3	Horizontal	360	3.00
7987.2MHz_PoE	Pass	PK	266.22M	26.67	46.00	-19.33	3	Horizontal	360	3.00
7987.2MHz_PoE	Pass	PK	361.08M	28.82	46.00	-17.18	3	Horizontal	360	3.00
7987.2MHz_PoE	Pass	PK	455.94M	26.61	46.00	-19.39	3	Horizontal	360	3.00
7987.2MHz_PoE	Pass	PK	599.16M	29.13	46.00	-16.87	3	Horizontal	360	3.00

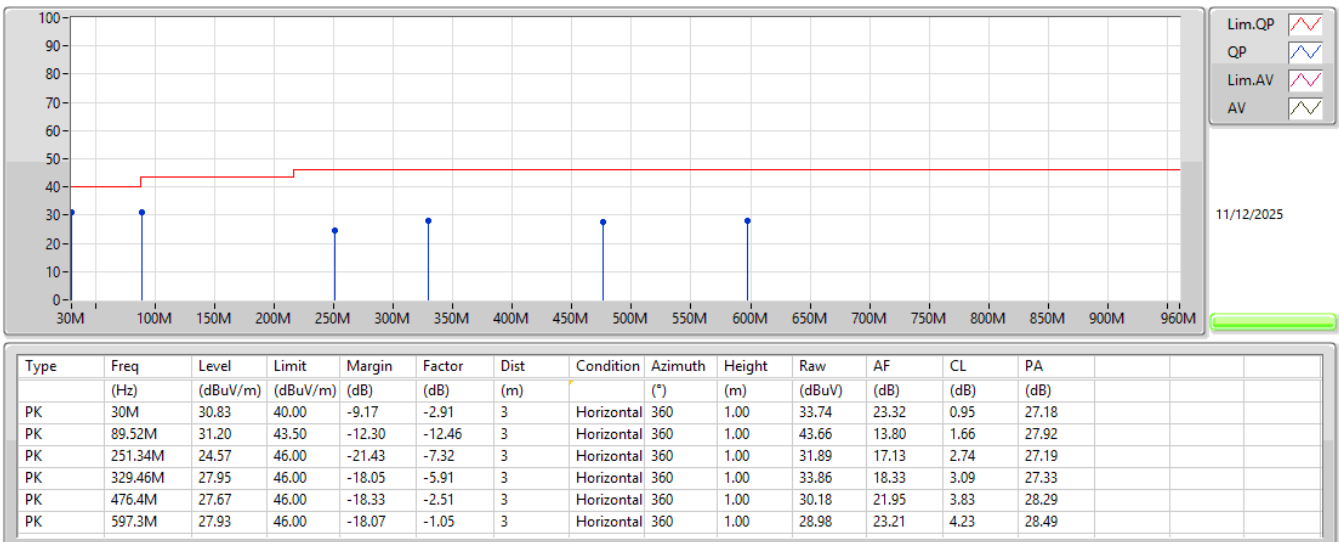
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_Adapter



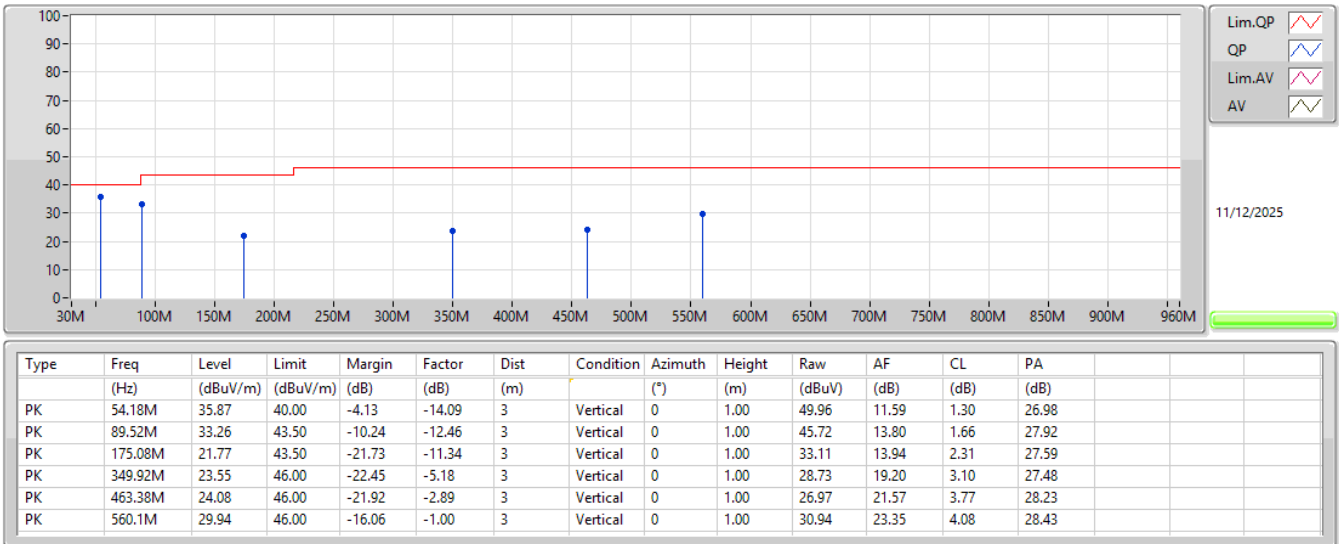
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_Adapter



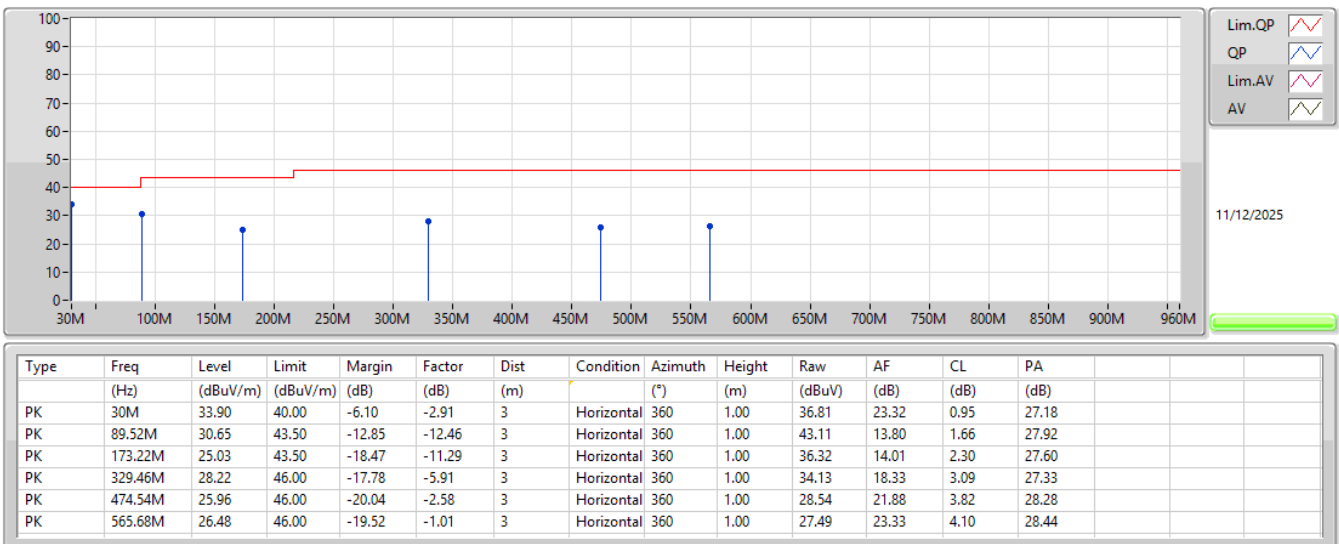
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_Adapter



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_Adapter





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
3.1-10.6GHz	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	Pass	AV	978.85M	24.14	-	-	3	Vertical	360	1.50
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	Pass	AV	961.64M	26.67	-	-	3	Vertical	360	1.00

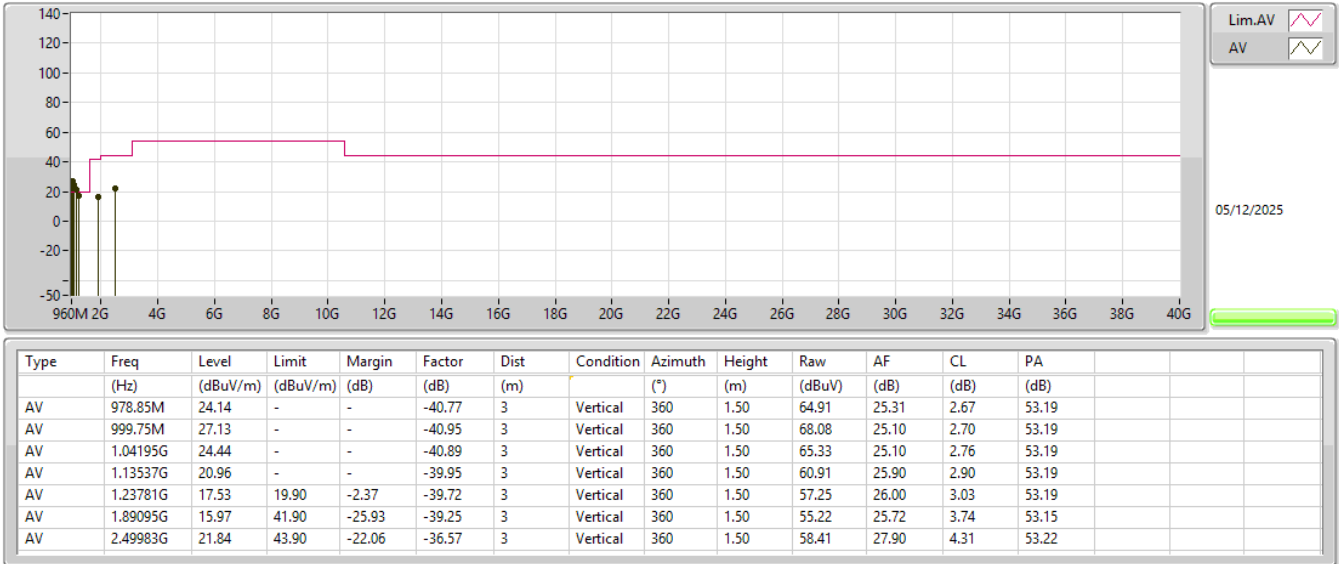
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Ultra Wide Band_Nss1,(HRP)_1TX(Port1)	-	-	-	-	-	-	-	-	-	-
7987.2MHz	Pass	AV	978.85M	24.14	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	999.75M	27.13	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.04195G	24.44	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.13537G	20.96	-	-	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.23781G	17.53	19.90	-2.37	3	Vertical	360	1.50
7987.2MHz	Pass	AV	1.89095G	15.97	41.90	-25.93	3	Vertical	360	1.50
7987.2MHz	Pass	AV	2.49983G	21.84	43.90	-22.06	3	Vertical	360	1.50
7987.2MHz	Pass	AV	973.52M	21.92	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	999.75M	25.07	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.04236G	23.83	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.05916G	20.76	-	-	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.13619G	13.85	19.90	-6.05	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.23659G	13.26	19.90	-6.64	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	2.49983G	21.91	43.90	-21.99	3	Horizontal	0	1.50
7987.2MHz	Pass	AV	1.18264G	-7.07	9.90	-16.97	3	Vertical	24	1.80
7987.2MHz	Pass	AV	1.18721G	-4.74	9.90	-14.64	3	Vertical	15	1.80
7987.2MHz	Pass	AV	1.19354G	-5.66	9.90	-15.56	3	Vertical	245	1.73
7987.2MHz	Pass	AV	1.16789G	-10.30	9.90	-20.20	3	Horizontal	220	1.48
7987.2MHz	Pass	AV	1.18208G	-10.42	9.90	-20.32	3	Horizontal	205	1.50
7987.2MHz	Pass	AV	1.23659G	-7.41	9.90	-17.31	3	Horizontal	346	1.50
7987.2MHz	Pass	AV	1.56368G	-13.16	9.90	-23.06	3	Vertical	42	2.10
7987.2MHz	Pass	AV	1.58047G	-12.28	9.90	-22.18	3	Vertical	2	1.47
7987.2MHz	Pass	AV	1.6G	4.45	9.90	-5.45	3	Vertical	16	1.48
7987.2MHz	Pass	AV	1.56495G	-13.39	9.90	-23.29	3	Horizontal	28	1.50
7987.2MHz	Pass	AV	1.57805G	-13.95	9.90	-23.85	3	Horizontal	21	1.74
7987.2MHz	Pass	AV	1.6G	-0.62	9.90	-10.52	3	Horizontal	237	1.55
Ultra Wide Band_Nss1,(HRP)_1TX(Port2)	-	-	-	-	-	-	-	-	-	-
7987.2MHz	Pass	AV	961.64M	26.67	-	-	3	Vertical	360	1.00
7987.2MHz	Pass	AV	999.75M	28.87	-	-	3	Vertical	360	1.00
7987.2MHz	Pass	AV	1.0526G	26.81	-	-	3	Vertical	360	1.00
7987.2MHz	Pass	AV	1.08415G	23.79	-	-	3	Vertical	360	1.00
7987.2MHz	Pass	AV	1.15586G	20.22	-	-	3	Vertical	360	1.00
7987.2MHz	Pass	AV	2.49983G	21.25	43.90	-22.65	3	Vertical	360	1.00
7987.2MHz	Pass	AV	965.33M	26.21	-	-	3	Horizontal	360	1.00
7987.2MHz	Pass	AV	999.75M	31.76	-	-	3	Horizontal	360	1.00
7987.2MHz	Pass	AV	1.03416G	28.57	-	-	3	Horizontal	360	1.00
7987.2MHz	Pass	AV	1.04974G	27.45	-	-	3	Horizontal	360	1.00
7987.2MHz	Pass	AV	1.08702G	25.25	-	-	3	Horizontal	360	1.00
7987.2MHz	Pass	AV	2.49983G	20.67	43.90	-23.23	3	Horizontal	360	1.00
7987.2MHz	Pass	AV	1.18029G	-5.68	9.90	-15.58	3	Vertical	40	1.48
7987.2MHz	Pass	AV	1.19919G	-8.95	9.90	-18.85	3	Vertical	94	1.50
7987.2MHz	Pass	AV	1.21291G	-6.64	9.90	-16.54	3	Vertical	325	1.43
7987.2MHz	Pass	AV	1.17758G	-12.91	9.90	-22.81	3	Horizontal	261	1.70
7987.2MHz	Pass	AV	1.2038G	-10.41	9.90	-20.31	3	Horizontal	30	1.64
7987.2MHz	Pass	AV	1.23254G	-9.74	9.90	-19.64	3	Horizontal	165	1.34
7987.2MHz	Pass	AV	1.56556G	-11.56	9.90	-21.46	3	Vertical	346	1.50
7987.2MHz	Pass	AV	1.58496G	-11.88	9.90	-21.78	3	Vertical	19	1.85
7987.2MHz	Pass	AV	1.59999G	5.49	9.90	-4.41	3	Vertical	28	1.50
7987.2MHz	Pass	AV	1.57397G	-13.14	9.90	-23.04	3	Horizontal	242	1.50
7987.2MHz	Pass	AV	1.59257G	-12.87	9.90	-22.77	3	Horizontal	308	1.50
7987.2MHz	Pass	AV	1.59999G	-0.48	9.90	-10.38	3	Horizontal	236	1.50

*The frequencies mentioned in Comments and Explanations are not limited to this Limit.

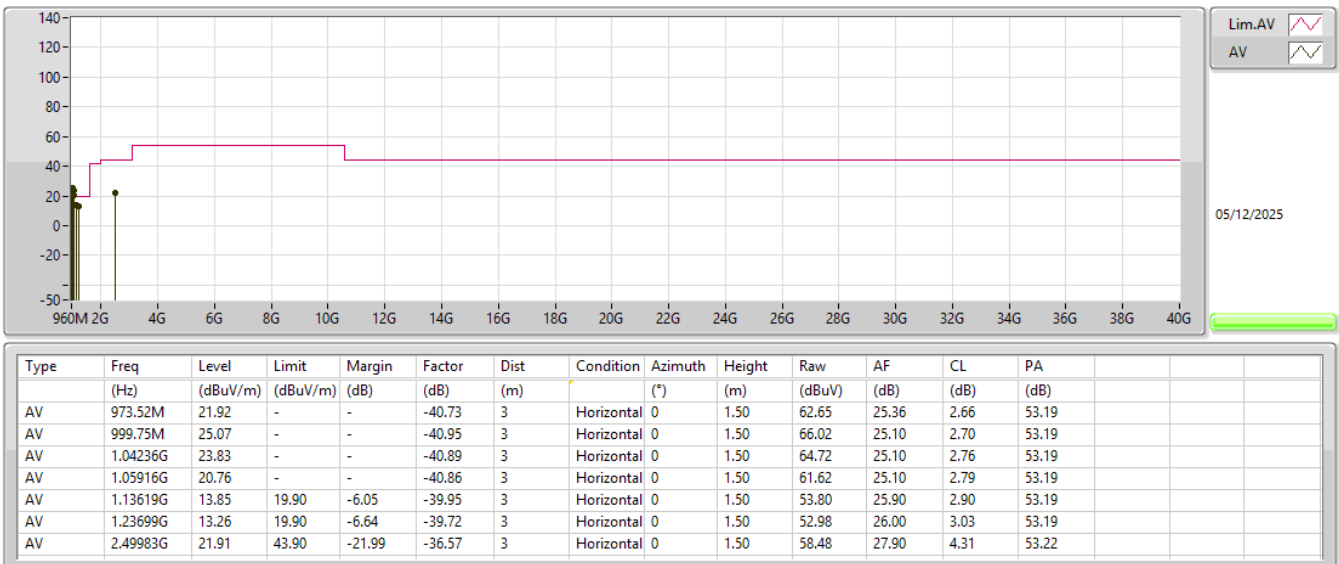
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7987.2MHz_TX



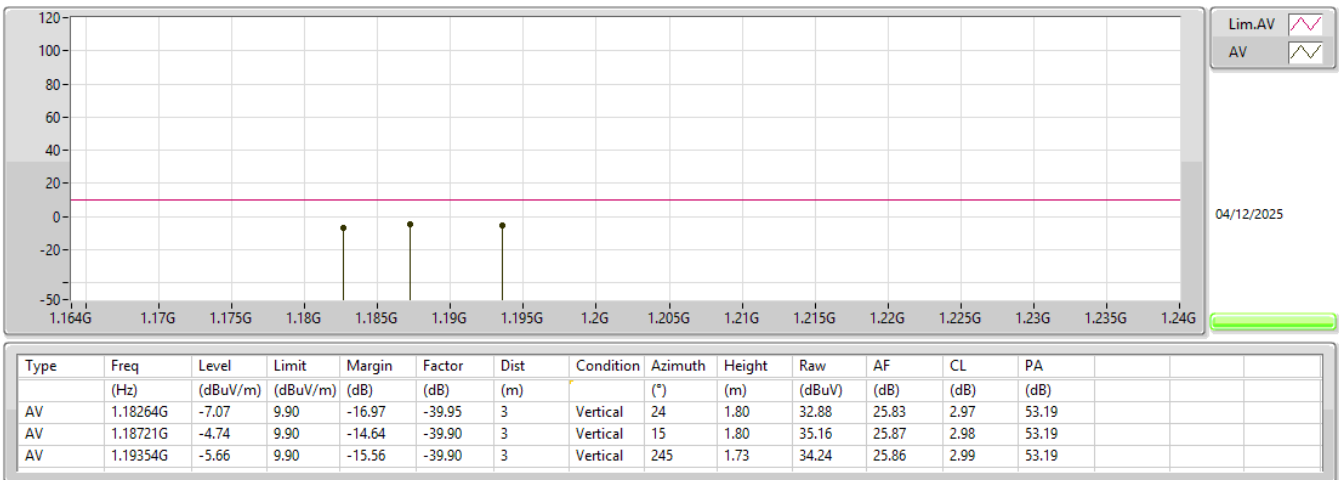
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



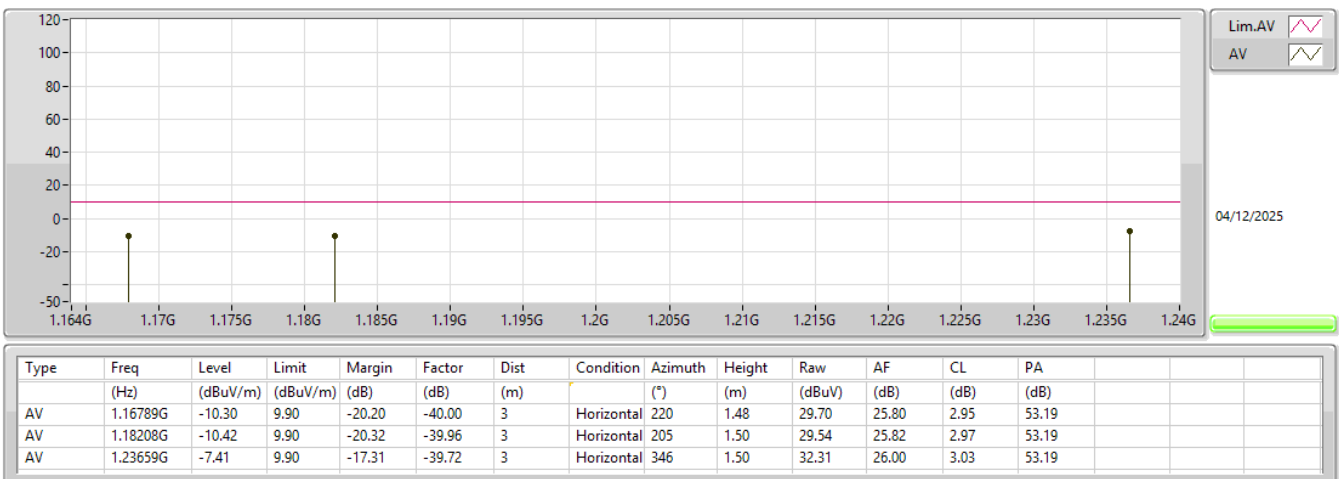
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



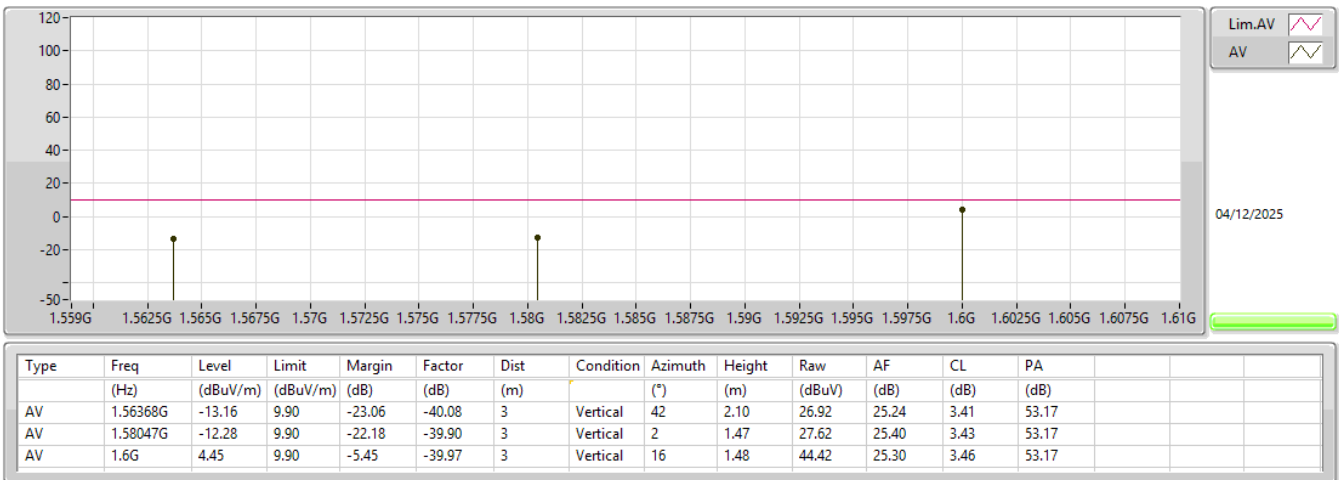
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



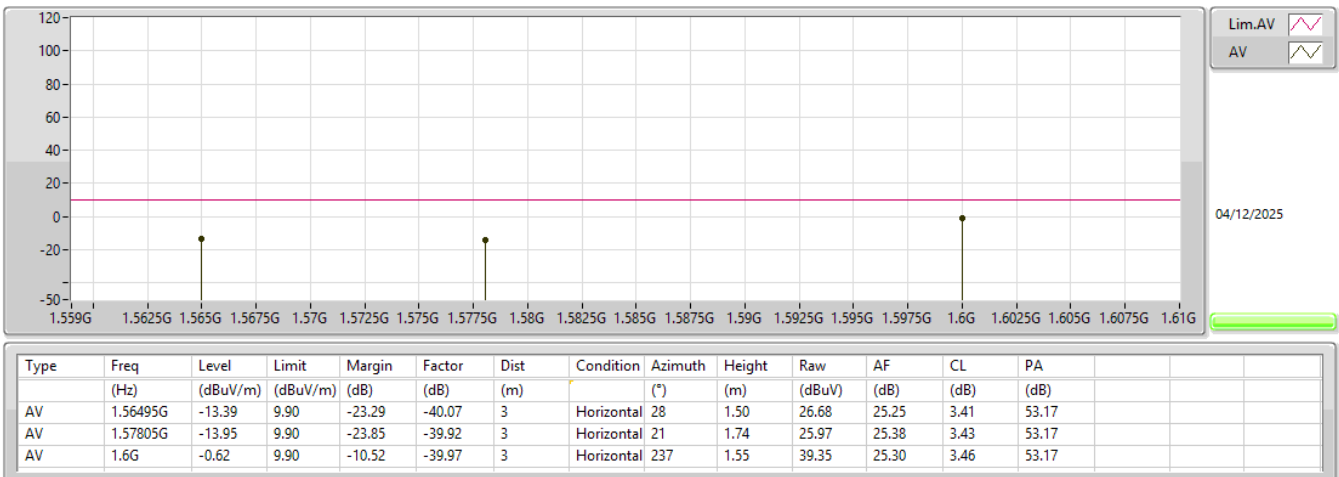
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



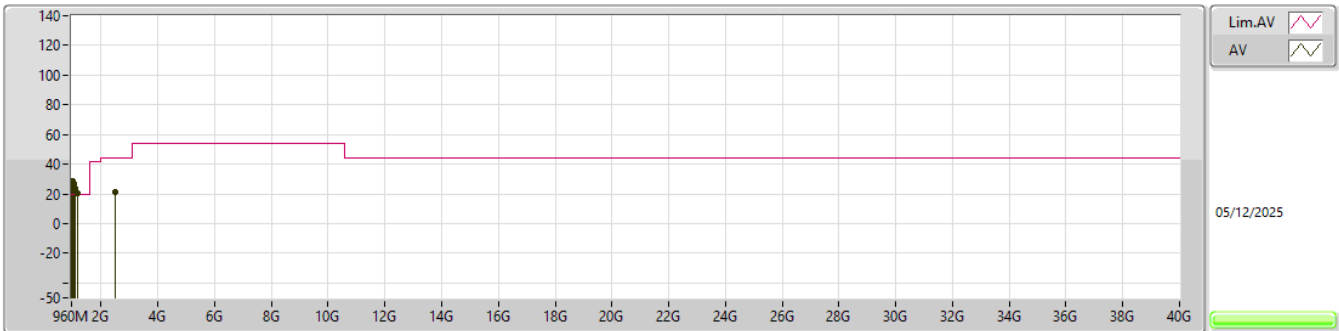
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port1)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

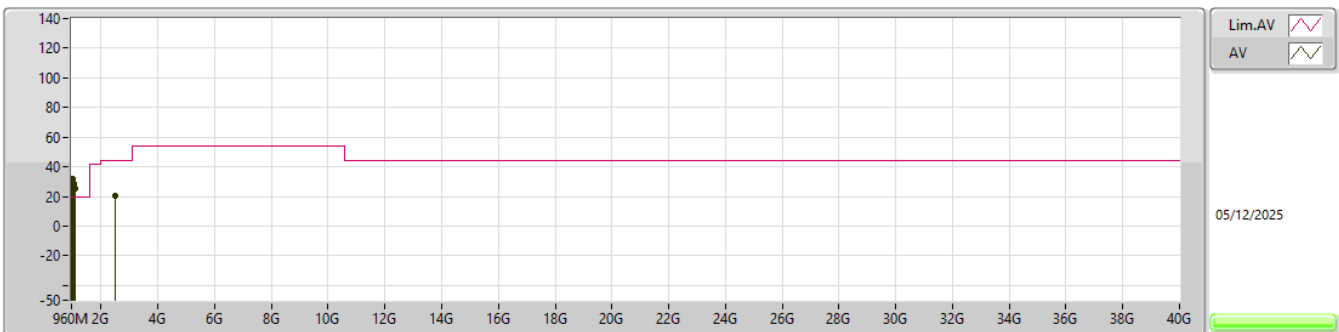
7987.2MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	961.64M	26.67	-	-	-40.63	3	Vertical	360	1.00	67.30	25.48	2.64	53.19
AV	999.75M	28.87	-	-	-40.95	3	Vertical	360	1.00	69.82	25.10	2.70	53.19
AV	1.0526G	26.81	-	-	-40.87	3	Vertical	360	1.00	67.68	25.10	2.78	53.19
AV	1.08415G	23.79	-	-	-40.78	3	Vertical	360	1.00	64.57	25.14	2.83	53.19
AV	1.15586G	20.22	-	-	-39.98	3	Vertical	360	1.00	60.20	25.84	2.93	53.19
AV	2.49983G	21.25	43.90	-22.65	-36.57	3	Vertical	360	1.00	57.82	27.90	4.31	53.22

3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

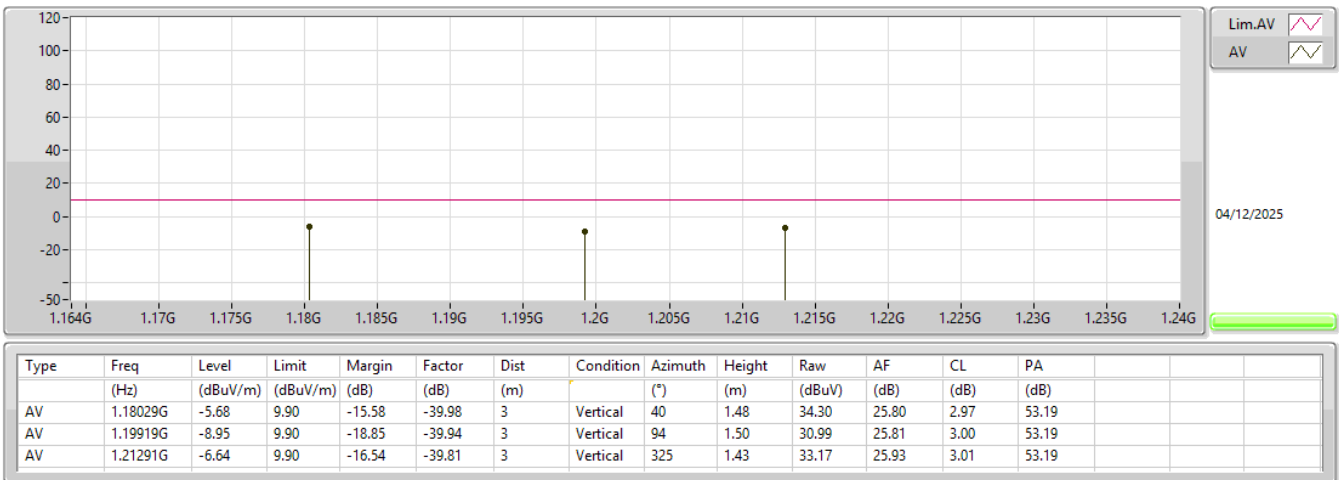
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Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	965.33M	26.21	-	-	-40.65	3	Horizontal	360	1.00	66.86	25.45	2.65	53.19
AV	999.75M	31.76	-	-	-40.95	3	Horizontal	360	1.00	72.71	25.10	2.70	53.19
AV	1.03416G	28.57	-	-	-40.84	3	Horizontal	360	1.00	69.41	25.16	2.75	53.19
AV	1.04974G	27.45	-	-	-40.88	3	Horizontal	360	1.00	68.33	25.10	2.77	53.19
AV	1.08702G	25.25	-	-	-40.75	3	Horizontal	360	1.00	66.00	25.17	2.83	53.19
AV	2.49983G	20.67	43.90	-23.23	-36.57	3	Horizontal	360	1.00	57.24	27.90	4.31	53.22

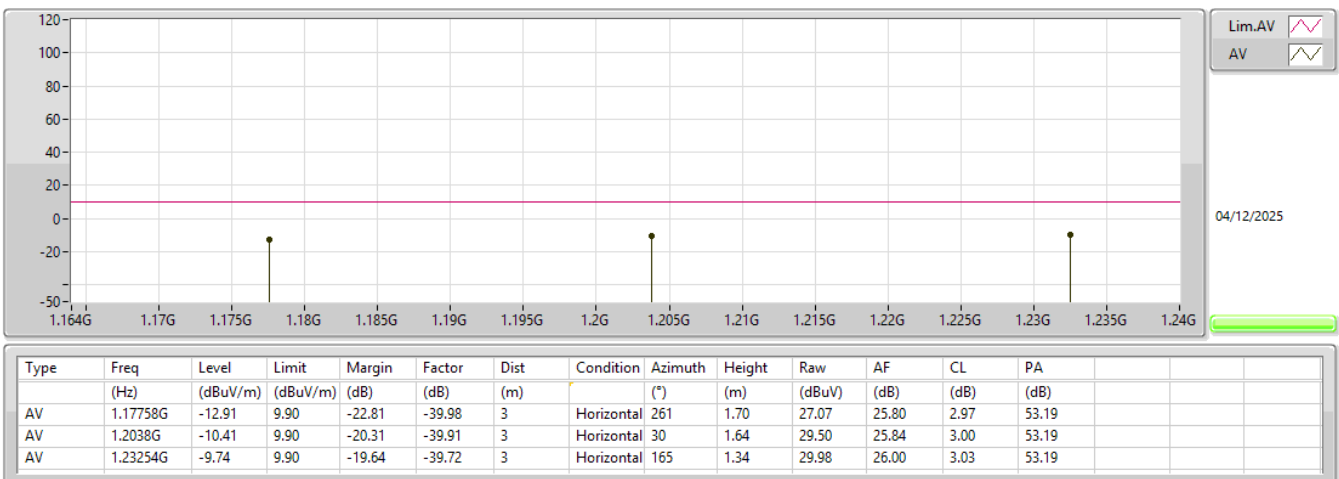
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX



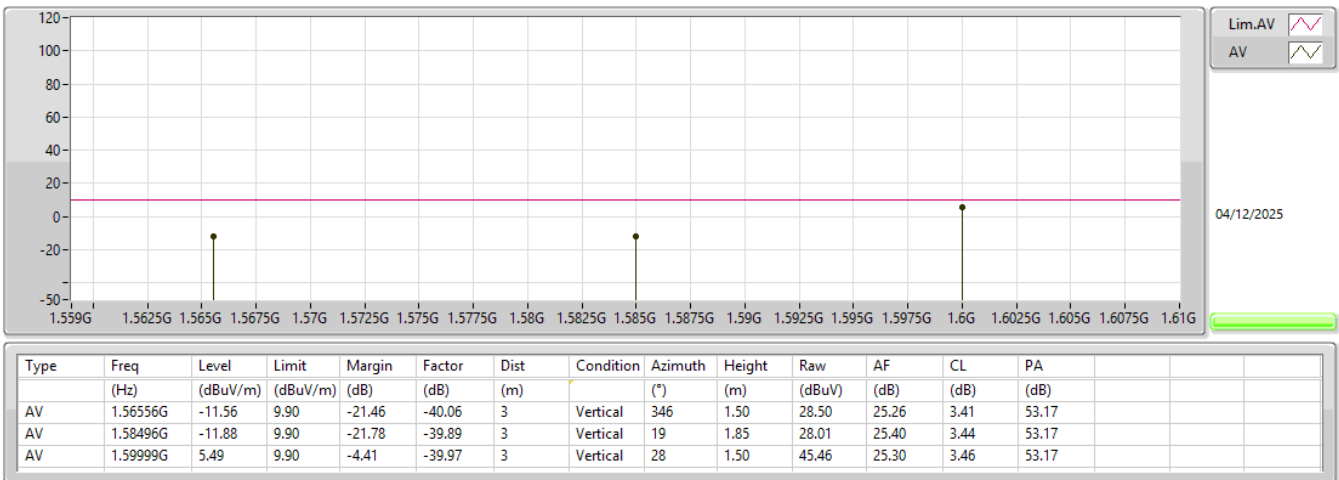
3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX



3.1-10.6GHz_Ultra Wide Band_Nss1,(HRP)_1TX(Port2)

7987.2MHz_TX

