FCC Radio Test Report

Contains FCC ID	**:**	**H8NNMQ2210-D187**
FCC ID	**:**	**H8NCBE1V1K**
Equipment	**:**	**WiFi 7 Router with Backup**
Model Name	**:**	**CBE1V1K**
Applicant	**:**	**ASKEY COMPUTER CORPORATION 10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan**
Manufacturer	**:**	**ASKEY COMPUTER CORPORATION 10F, No.119, Jiankang Rd., Zhonghe Dist., New Taipei City, Taiwan**
Standard	**:**	**47 CFR FCC Part 15.247**

The product was received on Feb. 26, 2025, and testing was started from Mar. 05, 2025 and completed on Aug. 01, 2025. 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 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

Report No.	Version	Description	Issued Date
FR471712AT	01	Initial issue of report	Aug. 29, 2025

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	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:
None

Reviewed by: Ryan Hsiao

Report Producer: Debby Hung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std.	Ch. Frequency (MHz)	Channel Number
2400-2483.5	Thread	2405-2480	11-26 [16]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	Thread	5	1

Note:.
- Zigbee uses a O-QPSK (250kbps) modulation for DSSS.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	NA	N01AKCGA-PK1-LB150U	PCB	I-Pex	BT+Thread	Radio 3
2	NA	N03AKCGB-PK1-LE150U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
3	NA	N03AKCGC-PK1-LG210U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
4	NA	N03AKCGD-PK1-LB210U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
5	NA	N03AKCGE-PK1-LW180U	PCB	I-Pex	2.4G+5G	Radio 1_2.4G Radio 2_5G
6	NA	N06AKCGF-PK1-LK90U	PCB	I-Pex	6G	Radio 2
7	NA	N06AKCGG-PK1-LA70U	PCB	I-Pex	6G	Radio 2
8	NA	N06AKCGH-PK1-LY180U	PCB	I-Pex	6G	Radio 2
9	NA	N06AKCGJ-PK1-LR180U	PCB	I-Pex	6G	Radio 2

Ant.	Port	Gain (dBi)									
		2.4G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G	BT+ Thread
1	1	-	-	-	-	-	-	-	-	-	2.5
2	1	2.9	2.22	2.66	2.37	2.98	-	-	-	-	-
3	2	3.72	2.79	2.84	2.77	2.64	-	-	-	-	-
4	3	3.72	3.09	3.04	2.82	3.28	-	-	-	-	-
5	4	2.79	2.33	2.96	3.13	2.59	-	-	-	-	-
6	1	-	-	-	-	-	4.8	5	4.8	5.3	-
7	2	-	-	-	-	-	4.9	5.1	4.7	5	-
8	3	-	-	-	-	-	4.2	4.3	4.6	5.4	-
9	4	-	-	-	-	-	5.8	4.8	5	5.1	-

Composite Gain (dBi)					
	2.4G	5.2G	5.3G	5.6G	5.785G
DG [1SS]	5.96	4.25	3.34	4.11	4.58
DG [2SS]	3.72	3.09	3.04	3.13	3.28
DG [4SS]	3.72	3.09	3.04	3.13	3.28

Note 1: The EUT has nine 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 AP471712.

For 2.4GHz function:

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

Ant. 2 (port 1), Ant. 3 (port 2), Ant. 4 (port 3) and Ant. 5 (port 4) could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 2 (port 1), Ant. 3 (port 2), Ant. 4 (port 3) and Ant. 5 (port 4) could transmit/receive simultaneously.

For 6GHz function:

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

Ant. 6 (port 1), Ant. 7 (port 2), Ant. 8 (port 3) and Ant. 9 (port 4) could transmit/receive simultaneously.

For BT function:

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

Ant. 1 (port 1) could transmit/receive.

For Thread function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
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 Mode Test Duty Cycle

Mode	DC	DCF (dB)	T (s)	VBW (Hz)_1/T
Thread	0.446	3.51	915.625u	2k

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

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

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

- KDB 558074 D01 v05r02
- KDB 414788 D01 v01r01

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
(TAF: 3785**)**	**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	Daniel Lin	22.2~23.1°C / 50~54%	01/Aug/2025
RF Conducted	TH07-HY	Yuna Lin	22.2~22.9°C / 53~58%	08/Mar/2025
Radiated	03CH02-HY	Daniel Lin	21.9~24.6°C / 51~56%	05/Mar/2025~01/Aug/2025
Radiated (Colocation)	03CH03-HY	Simon Cheng	23.6~24.7°C / 51~54%	01/May/2025
☐ Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
(TAF: 3785**)**	**TEL:** 886-3-318-0787		**FAX:** 886-3-318-0287	
Test site Designation No. TW0008 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%
Conducted Output Power	1.48 dB	Confidence levels of 95%
Bandwidth	0.05 MHz	Confidence levels of 95%
Conducted Emission	1.48 dB	Confidence levels of 95%
Power Spectral Density	1.22 dB	Confidence levels of 95%
Radiated Emission (9 kHz ~ 30 MHz)	2.9 dB	Confidence levels of 95%
Radiated Emission (30 MHz ~ 1 GHz)	5.64 dB	Confidence levels of 95%
Radiated Emission (1 GHz ~ 18 GHz)	5.02 dB	Confidence levels of 95%
Radiated Emission (18 GHz ~ 40 GHz)	5.28 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PuTTY Release 0.72

Mode	Power Setting
Thread	-
2405MHz	200
2440MHz	200
2480MHz	200

2.2 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 Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
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 < 1GHz	CTX
1	Adapter mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	**Y Plane**
	
Worst Planes of EUT	V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz+WLAN 5GHz+WLAN 6GHz +Thread+WWAN
Refer to Sporton Test Report No.: FA471712 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 Accessories

Accessories				
AC Adapter (US Plug)	**Brand Name**	Spectrum	**Model Name**	S042PAU1200350
	Power Rating	I/P: 100-120 Vac, 1.0 A, O/P: 12.0 Vdc, 3.5 A		
	Power Cord	1.8 meter, non-shielded cable, w/o ferrite core		
RJ45 Cable	1.75 meter, non-shielded cable, w/o ferrite core			
Battery Backup	**Brand Name**	Spectrum	**Model Name**	BBS8V1T
	Power Rating	I/P: 11.5 - 12.5 Vac, 3.5 A O/P: Battery Mode: 5.9 - 8.4 Vdc, 5.8 A Line Mode: 11.2 - 12.5 Vdc, 3.5 A		

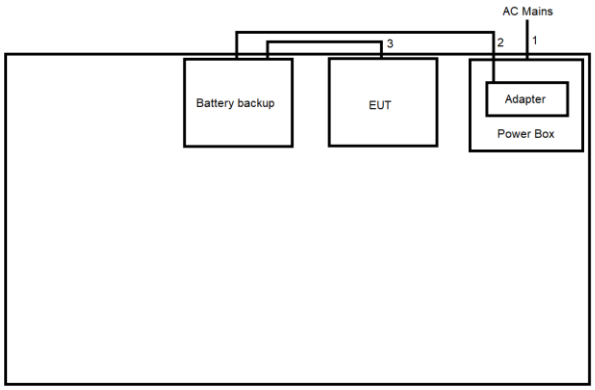
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – Conducted					
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**	**Remark**
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-

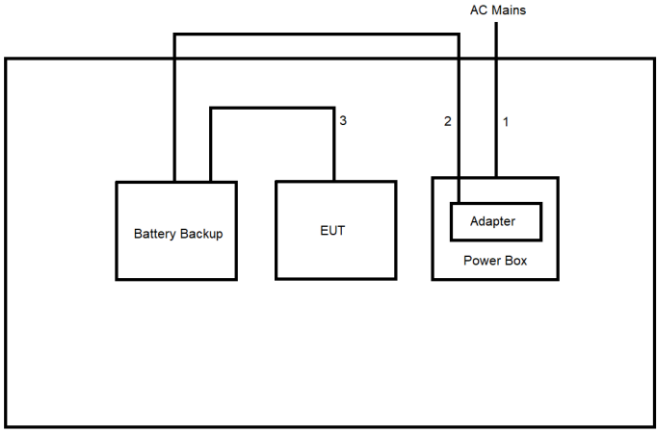
2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	NO	1.8	-
2	DC Power Cable	NO	1.8	-
3	DC Power Cable	NO	0.9	-

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	NO	1.8	-
2	DC Power Cable	NO	1.8	-
3	DC Power Cable	NO	0.9	-

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

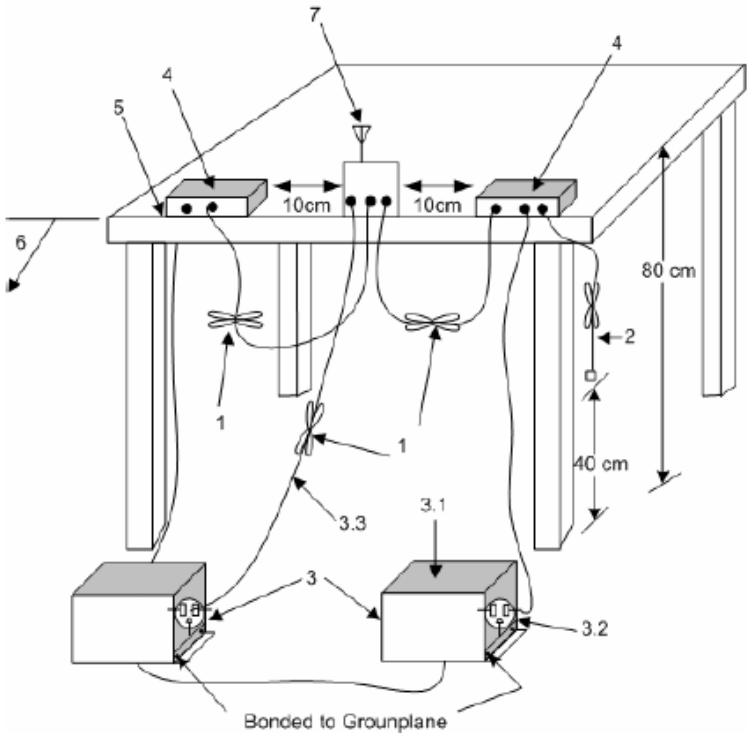
Test Method
☒ Refer as ANSI C63.10, clause 6.2 for AC power-line conducted emissions.

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

AC Power-line Conducted Emissions



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 50Ωloads. 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.

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

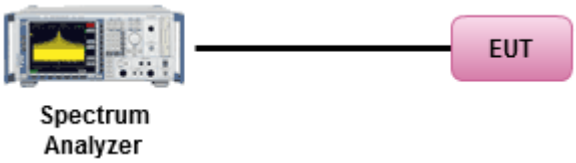
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as KDB 558074, clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
	☐ Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
	☐ Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit			
	▪ If G_{TX} ≤ 6 dBi, then P_{Out} ≤ 30 dBm (1 W)		
	▪ Point-to-multipoint systems (P2M): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6) dBm		
	▪ Point-to-point systems (P2P): If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm		
	▪ Smart antenna system (SAS):		
		- Single beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
		- Overlap beam: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 dBm	
		- Aggregate power on all beams: If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)/3 + 8dB dBm	
e.i.r.p. Power Limit:			
▪ 2400-2483.5 MHz Band			
	▪ Point-to-multipoint systems (P2M): P_{eirp} ≤ 36 dBm (4 W)		
	▪ Point-to-point systems (P2P): P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX}]) dBm		
	▪ Smart antenna system (SAS)		
		- Single beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Overlap beam: P_{eirp} ≤ MAX(36, P_{Out} + G_{TX}) dBm	
		- Aggregate power on all beams: P_{eirp} ≤ MAX(36, [P_{Out} + G_{TX} + 8]) dBm	
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.			

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	☐ Refer as KDB 558074, clause 8.3.1.2 integrated band power method.
	☐ Refer as KDB 558074, clause 8.3.1.3 (11.9.1.2 of ANSI C63.10) peak power meter.
▪ Maximum Average Conducted Output Power	
	☐ Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	☒ Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

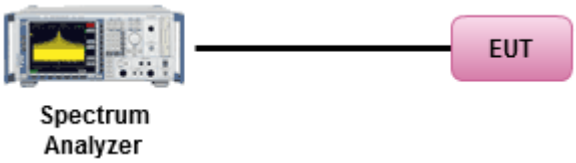
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		▪ Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dB)**
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average level.	

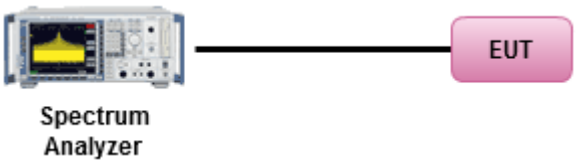
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
▪ Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions 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
Above 960	500	54	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.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

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

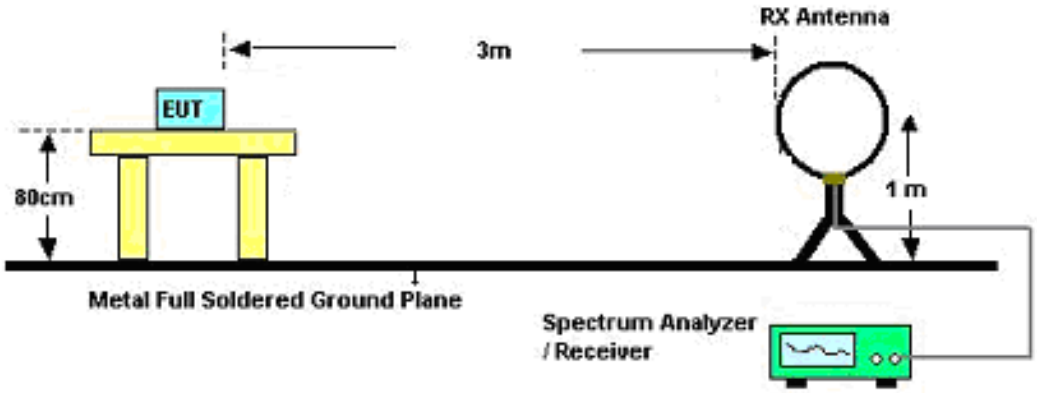
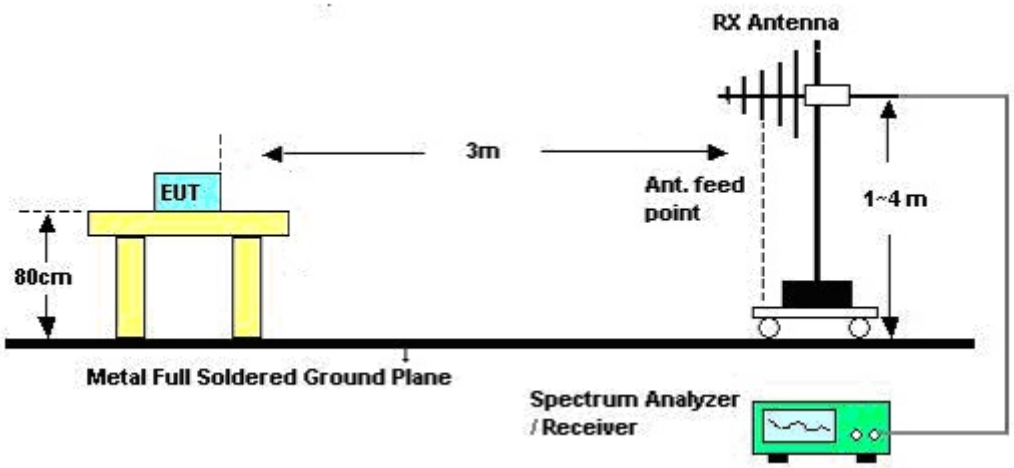
3.6.3 Test Procedures

Test Method	
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
▪ For the transmitter unwanted emissions shall be measured using following options below:	
	▪ Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
▪ For the transmitter band-edge emissions shall be measured using following options below:	
	▪ Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	▪ Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	▪ Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
▪ Use the following spectrum analyzer settings:	
	▪ Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	▪ Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.
▪	KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.
	▪ Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	▪ Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

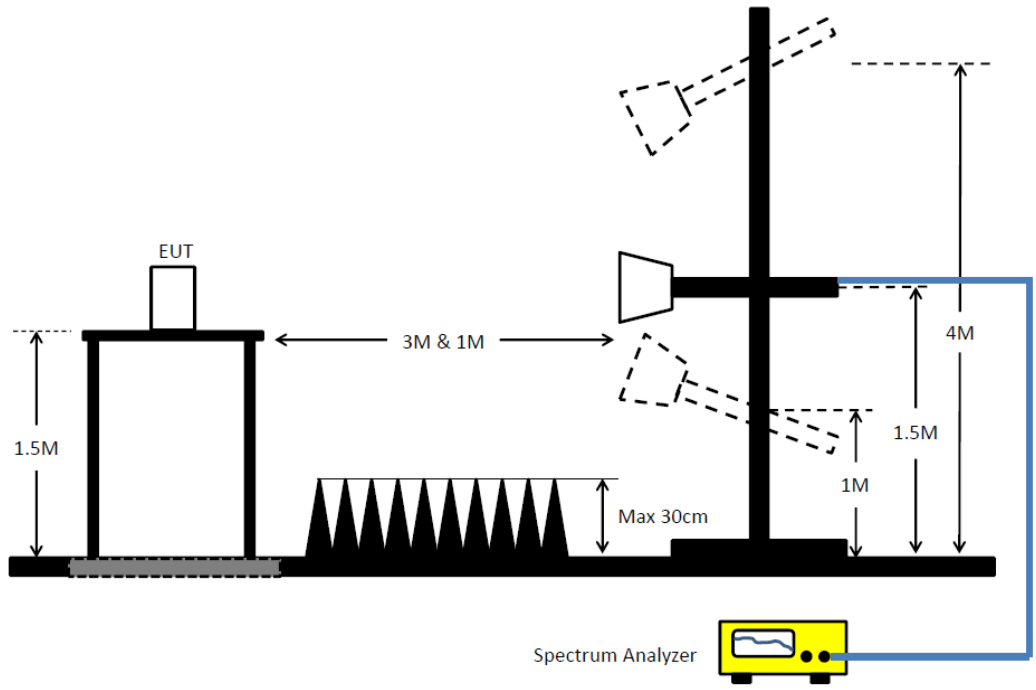
3.6.4 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

3.6.5 Test Setup

Emissions in Restricted Frequency Bands
9kHz ~30MHz

30MHz~1GHz


Above 1GHz



3.6.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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	100003	9kHz ~ 30MHz	06/Sep/2024	05/Sep/2025
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	26/Feb/2025	25/Feb/2026
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	17/Oct/2024	16/Oct/2025
SENSE-EMI	Sporton	V5.11.3	N/A	N/A	N/A	N/A

NCR: No Calibration Required

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	9kHz~40GHz	23/Jan/2025	22/Jan/2026
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	16/Oct/2024	15/Oct/2025
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	18/Dec/2024	17/Dec/2025
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	18/Dec/2024	17/Dec/2025
SENSE-15247_FS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

Instrument for Radiated Test_Co-location

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz~18GHz 3m	14/Jul/2024	13/Jul/2025
Signal Analyzer	R&S	FSV40	101500	10Hz~40GHz	01/Nov/2024	31/Oct/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02267	1GHz~18GHz	18/Oct/2024	17/Oct/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	04/Jun/2024	03/Jun/2025
RF CABLE 5+8m	HUBER+SUHNER	SUOFLEX_104	03CH03-cable-03	1GHz~40GHz	11/Apr/2025	10/Apr/2026
Microwave Premplifier	Agilent	8449B	3008A02326	1GHz~26.5GHz	25/Jul/2024	24/Jul/2025
Amplifier	EM	EM18G40GA	060874	18GHz ~ 40GHz	18/Apr/2025	17/Apr/2026
SENSE-EMI	Sporton	V5.11.9	NA	NA	NA	NA

Instrument for Radiated Test

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	14/Jul/2024	13/Jul/2025
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	14/Jul/2024	13/Jul/2025
EMI Test Receiver	R&S	ESR	102052	9kHz~3.6GHz	14/May/2025	13/May/2026
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	11/Mar/2024	10/Mar/2025
Signal Analyzer	R&S	FSP 40	100593	9kHz~40GHz	26/Mar/2025	25/Mar/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	26/Aug/2024	25/Aug/2025
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz~18GHz	23/Sep/2024	22/Sep/2025
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz~40GHz	04/Jun/2024	03/Jun/2025
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	9kHz~30MHz	26/Nov/2024	25/Nov/2025
RF Cable	MVE	400LL+SN 200207	03CH02-cable-02	30MHz~1GHz	26/Nov/2024	25/Nov/2025
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX 104	03CH02-cable-01	1GHz~40GHz	13/Feb/2025	12/Feb/2026
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	27/Jun/2025	26/Jun/2026
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	01/Oct/2024	30/Sep/2025
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz ~40GHz	19/Apr/2024	18/Apr/2025
SENSE-15247-DTS	Sporton	V5.11.23	N/A	N/A	N/A	N/A

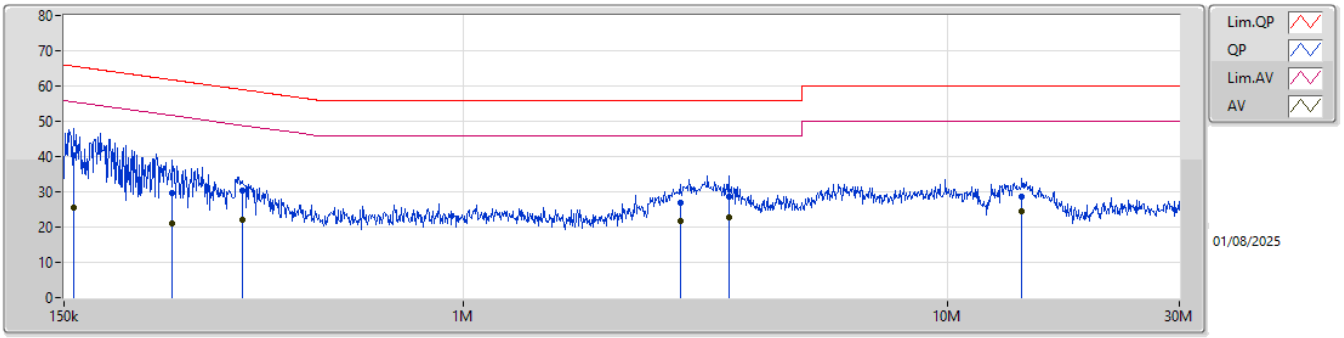
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	3.53M	22.92	46.00	-23.08	Line

Result

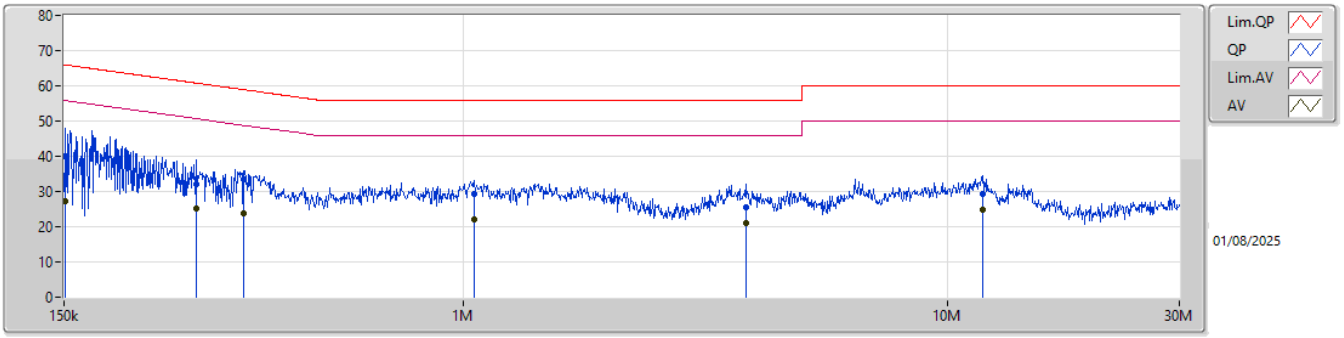
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	156.73k	40.33	65.64	-25.31	Line
Mode 1	Pass	AV	156.73k	25.38	55.64	-30.26	Line
Mode 1	Pass	QP	251.04k	29.59	61.72	-32.13	Line
Mode 1	Pass	AV	251.04k	20.91	51.72	-30.81	Line
Mode 1	Pass	QP	351.05k	30.33	58.94	-28.61	Line
Mode 1	Pass	AV	351.05k	21.90	48.94	-27.04	Line
Mode 1	Pass	QP	2.8M	26.90	56.00	-29.10	Line
Mode 1	Pass	AV	2.8M	21.79	46.00	-24.21	Line
Mode 1	Pass	QP	3.53M	28.59	56.00	-27.41	Line
Mode 1	Pass	AV	3.53M	22.92	46.00	-23.08	Line
Mode 1	Pass	QP	14.21M	28.55	60.00	-31.45	Line
Mode 1	Pass	AV	14.21M	24.56	50.00	-25.44	Line
Mode 1	Pass	QP	151.2k	39.96	65.92	-25.96	Neutral
Mode 1	Pass	AV	151.2k	27.20	55.92	-28.72	Neutral
Mode 1	Pass	QP	280.73k	32.01	60.80	-28.79	Neutral
Mode 1	Pass	AV	280.73k	25.09	50.80	-25.71	Neutral
Mode 1	Pass	QP	352.46k	33.46	58.91	-25.45	Neutral
Mode 1	Pass	AV	352.46k	23.72	48.91	-25.19	Neutral
Mode 1	Pass	QP	1.05M	29.38	56.00	-26.62	Neutral
Mode 1	Pass	AV	1.05M	21.93	46.00	-24.07	Neutral
Mode 1	Pass	QP	3.82M	25.41	56.00	-30.59	Neutral
Mode 1	Pass	AV	3.82M	20.88	46.00	-25.12	Neutral
Mode 1	Pass	QP	11.78M	29.47	60.00	-30.53	Neutral
Mode 1	Pass	AV	11.78M	24.82	50.00	-25.18	Neutral

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	156.73k	40.33	65.64	-25.31	19.61	Line	-	20.72	9.63	0.01	9.97
AV	156.73k	25.38	55.64	-30.26	19.61	Line	-	5.77	9.63	0.01	9.97
QP	251.04k	29.59	61.72	-32.13	19.62	Line	-	9.97	9.63	0.02	9.97
AV	251.04k	20.91	51.72	-30.81	19.62	Line	-	1.29	9.63	0.02	9.97
QP	351.05k	30.33	58.94	-28.61	19.64	Line	-	10.69	9.63	0.03	9.98
AV	351.05k	21.90	48.94	-27.04	19.64	Line	-	2.26	9.63	0.03	9.98
QP	2.8M	26.90	56.00	-29.10	19.67	Line	-	7.23	9.66	0.04	9.97
AV	2.8M	21.79	46.00	-24.21	19.67	Line	-	2.12	9.66	0.04	9.97
QP	3.53M	28.59	56.00	-27.41	19.70	Line	-	8.89	9.67	0.05	9.98
AV	3.53M	22.92	46.00	-23.08	19.70	Line	-	3.22	9.67	0.05	9.98
QP	14.21M	28.55	60.00	-31.45	20.04	Line	-	8.51	9.79	0.27	9.98
AV	14.21M	24.56	50.00	-25.44	20.04	Line	-	4.52	9.79	0.27	9.98

Conducted Emissions at Powerline_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	151.2k	39.96	65.92	-25.96	19.71	Neutral	-	20.25	9.73	0.01	9.97
AV	151.2k	27.20	55.92	-28.72	19.71	Neutral	-	7.49	9.73	0.01	9.97
QP	280.73k	32.01	60.80	-28.79	19.71	Neutral	-	12.30	9.72	0.02	9.97
AV	280.73k	25.09	50.80	-25.71	19.71	Neutral	-	5.38	9.72	0.02	9.97
QP	352.46k	33.46	58.91	-25.45	19.72	Neutral	-	13.74	9.71	0.03	9.98
AV	352.46k	23.72	48.91	-25.19	19.72	Neutral	-	4.00	9.71	0.03	9.98
QP	1.05M	29.38	56.00	-26.62	19.75	Neutral	-	9.63	9.72	0.05	9.98
AV	1.05M	21.93	46.00	-24.07	19.75	Neutral	-	2.18	9.72	0.05	9.98
QP	3.82M	25.41	56.00	-30.59	19.82	Neutral	-	5.59	9.79	0.05	9.98
AV	3.82M	20.88	46.00	-25.12	19.82	Neutral	-	1.06	9.79	0.05	9.98
QP	11.78M	29.47	60.00	-30.53	20.23	Neutral	-	9.24	9.99	0.26	9.98
AV	11.78M	24.82	50.00	-25.18	20.23	Neutral	-	4.59	9.99	0.26	9.98

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
Thread	1.675M	2.186M	2M19D1D	1.619M	2.149M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

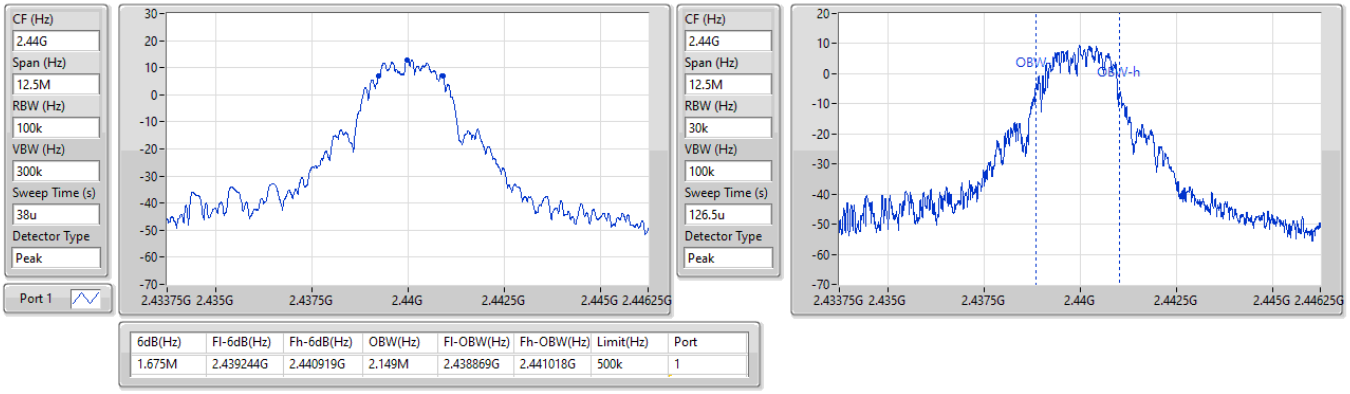
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
Thread	-	-	-	-
2405MHz	Pass	500k	1.638M	2.186M
2440MHz	Pass	500k	1.675M	2.149M
2480MHz	Pass	500k	1.619M	2.18M

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_Thread **EBW**

2440MHz

08/03/2025



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.675M	2.439244G	2.440919G	2.149M	2.438869G	2.441018G	500k	1

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
Thread	18.58	0.07211

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
Thread	-	-	-	-	-
2405MHz	Pass	2.50	17.95	17.95	30.00
2440MHz	Pass	2.50	18.58	18.58	30.00
2480MHz	Pass	2.50	17.73	17.73	30.00

DG = Directional Gain; Port X = Port X output power;
Inf = There's no restriction for the limit.

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
Thread	3.87

RBW = 3kHz;

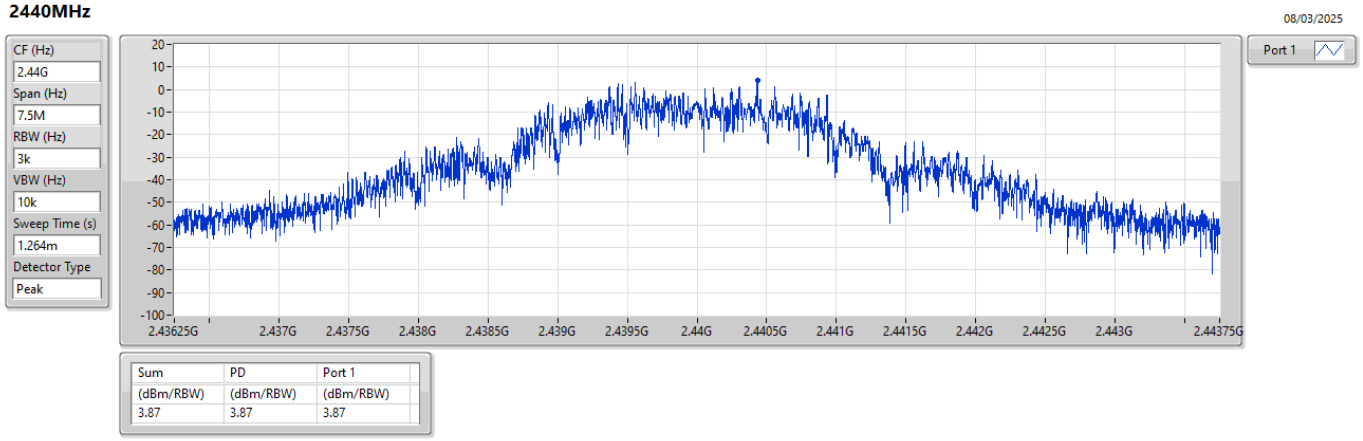
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
Thread	-	-	-	-	-
2405MHz	Pass	2.50	3.36	3.36	8.00
2440MHz	Pass	2.50	3.87	3.87	8.00
2480MHz	Pass	2.50	3.02	3.02	8.00

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;
Inf = There's no restriction for the limit.

2.4-2.4835GHz_Thread PSD

2440MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.87	3.87	3.87

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thread	Pass	2.43991G	18.59	-11.41	2.06275G	-55.36	2.39984G	-40.05	2.4G	-39.27	2.50326G	-52.84	24.54445G	-42.75	1

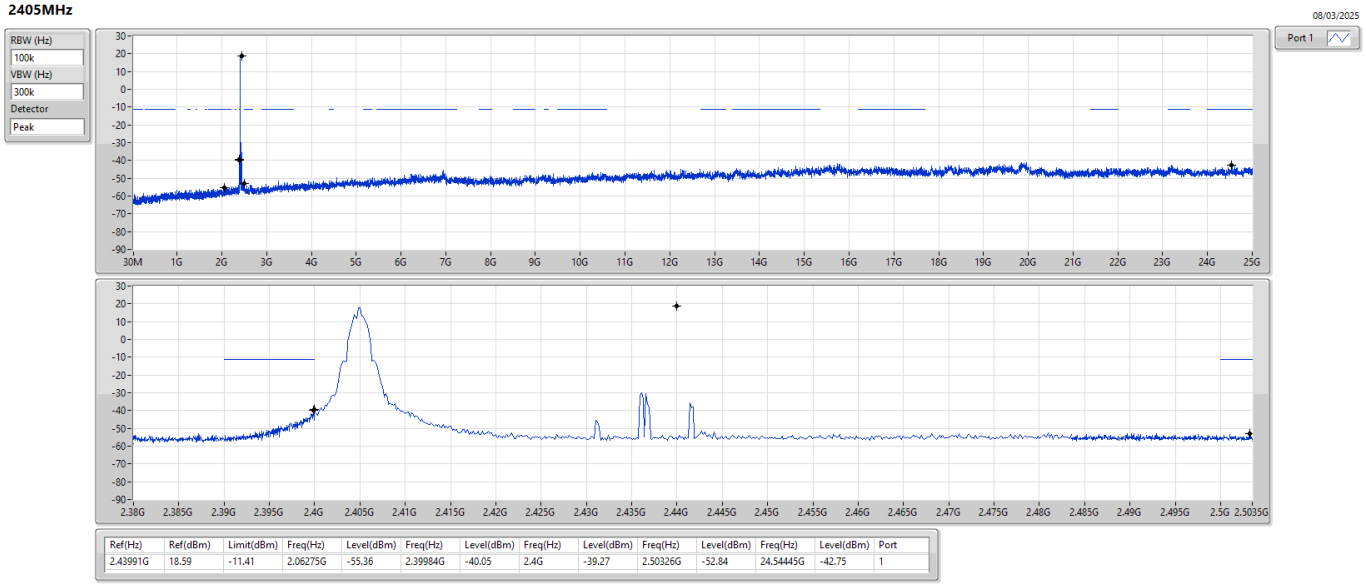
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
Thread	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	2.43991G	18.59	-11.41	2.06275G	-55.36	2.39984G	-40.05	2.4G	-39.27	2.50326G	-52.84	24.54445G	-42.75	1
2440MHz	Pass	2.43991G	18.59	-11.41	1.97815G	-54.96	2.39272G	-53.26	2.4G	-55.14	2.50086G	-53.69	16.78878G	-42.51	1
2480MHz	Pass	2.43991G	18.59	-11.41	1.94643G	-54.11	2.39128G	-53.83	2.4G	-56.32	2.50026G	-52.57	17.57616G	-42.28	1

2.4-2.4835GHz_Thread

CSENdB

2405MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43991G	18.59	-11.41	2.06275G	-55.36	2.39984G	-40.05	2.4G	-39.27	2.50326G	-52.84	24.54445G	-42.75	1

Summary

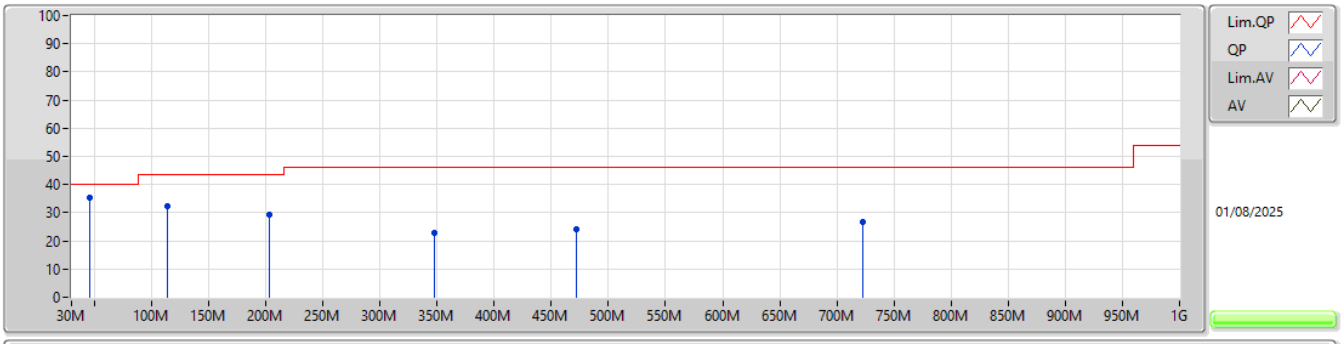
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
Thread	Pass	PK	45.52M	35.40	40.00	-4.60	3	Vertical	0	1.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Thread	-	-	-	-	-	-	-	-	-	-
2440MHz_Adapter	Pass	PK	45.52M	35.40	40.00	-4.60	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	113.42M	32.43	43.50	-11.07	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	202.66M	29.14	43.50	-14.36	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	348.16M	22.68	46.00	-23.32	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	472.32M	24.28	46.00	-21.72	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	722.58M	26.52	46.00	-19.48	3	Vertical	0	1.00
2440MHz_Adapter	Pass	PK	90.14M	33.47	43.50	-10.03	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	165.8M	37.61	43.50	-5.89	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	297.72M	25.05	46.00	-20.95	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	441.28M	24.21	46.00	-21.79	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	631.4M	26.32	46.00	-19.68	3	Horizontal	360	1.00
2440MHz_Adapter	Pass	PK	736.16M	27.39	46.00	-18.61	3	Horizontal	360	1.00

2.4-2.4835GHz_Thread

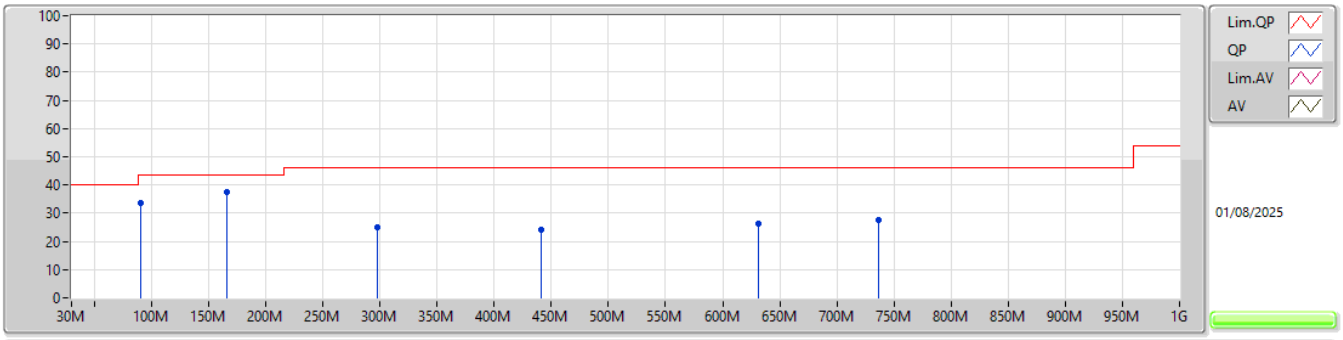
2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	45.52M	35.40	40.00	-4.60	-9.63	3	Vertical	0	1.00	45.03	14.76	1.34	25.73
PK	113.42M	32.43	43.50	-11.07	-9.10	3	Vertical	0	1.00	41.53	16.60	2.13	27.83
PK	202.66M	29.14	43.50	-14.36	-10.59	3	Vertical	0	1.00	39.73	13.92	2.90	27.41
PK	348.16M	22.68	46.00	-23.32	-4.54	3	Vertical	0	1.00	27.22	19.08	3.85	27.47
PK	472.32M	24.28	46.00	-21.72	-1.80	3	Vertical	0	1.00	26.08	21.96	4.51	28.27
PK	722.58M	26.52	46.00	-19.48	1.30	3	Vertical	0	1.00	25.22	23.80	5.72	28.22

2.4-2.4835GHz_Thread

2440MHz_Adapter



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
PK	90.14M	33.47	43.50	-10.03	-12.39	3	Horizontal	360	1.00	45.86	13.63	1.90	27.92
PK	165.8M	37.61	43.50	-5.89	-10.53	3	Horizontal	360	1.00	48.14	14.51	2.59	27.63
PK	297.72M	25.05	46.00	-20.95	-5.64	3	Horizontal	360	1.00	30.69	17.93	3.54	27.11
PK	441.28M	24.21	46.00	-21.79	-2.52	3	Horizontal	360	1.00	26.73	21.26	4.34	28.12
PK	631.4M	26.32	46.00	-19.68	0.62	3	Horizontal	360	1.00	25.70	23.72	5.28	28.38
PK	736.16M	27.39	46.00	-18.61	1.67	3	Horizontal	360	1.00	25.72	24.10	5.77	28.20

Summary

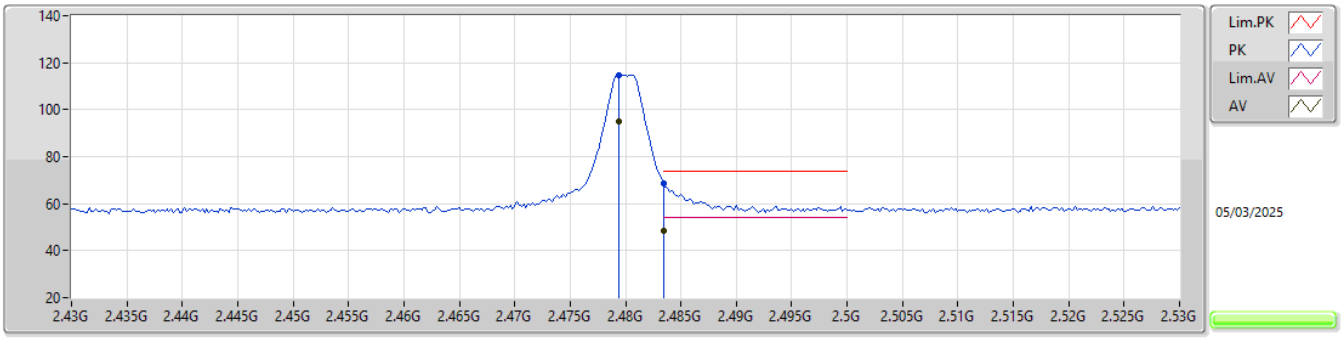
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
Thread	Pass	AV	2.4835G	48.50	54.00	-5.50	3	Vertical	9	1.87

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Thread	-	-	-	-	-	-	-	-	-	-
2405MHz	Pass	AV	2.3608G	37.61	54.00	-16.39	3	Vertical	0	1.11
2405MHz	Pass	AV	2.405G	90.62	Inf	-Inf	3	Vertical	0	1.11
2405MHz	Pass	PK	2.3608G	57.61	74.00	-16.39	3	Vertical	0	1.11
2405MHz	Pass	PK	2.405G	110.62	Inf	-Inf	3	Vertical	0	1.11
2405MHz	Pass	AV	2.3818G	38.35	54.00	-15.65	3	Horizontal	168	1.50
2405MHz	Pass	AV	2.405G	91.02	Inf	-Inf	3	Horizontal	168	1.50
2405MHz	Pass	PK	2.3818G	58.35	74.00	-15.65	3	Horizontal	168	1.50
2405MHz	Pass	PK	2.405G	111.02	Inf	-Inf	3	Horizontal	168	1.50
2405MHz	Pass	AV	4.809G	21.06	54.00	-32.94	3	Vertical	172	1.49
2405MHz	Pass	PK	4.809G	41.06	74.00	-32.94	3	Vertical	172	1.49
2405MHz	Pass	AV	4.80759G	21.51	54.00	-32.49	3	Horizontal	243	1.29
2405MHz	Pass	PK	4.80759G	41.51	74.00	-32.49	3	Horizontal	243	1.29
2440MHz	Pass	AV	2.3832G	37.89	54.00	-16.11	3	Vertical	6	1.46
2440MHz	Pass	AV	2.4396G	94.69	Inf	-Inf	3	Vertical	6	1.46
2440MHz	Pass	AV	2.4892G	38.29	54.00	-15.71	3	Vertical	6	1.46
2440MHz	Pass	PK	2.3832G	57.89	74.00	-16.11	3	Vertical	6	1.46
2440MHz	Pass	PK	2.4396G	114.69	Inf	-Inf	3	Vertical	6	1.46
2440MHz	Pass	PK	2.4892G	58.29	74.00	-15.71	3	Vertical	6	1.46
2440MHz	Pass	AV	2.3516G	37.64	54.00	-16.36	3	Horizontal	167	1.26
2440MHz	Pass	AV	2.44G	93.92	Inf	-Inf	3	Horizontal	167	1.26
2440MHz	Pass	AV	2.4868G	38.52	54.00	-15.48	3	Horizontal	167	1.26
2440MHz	Pass	PK	2.3516G	57.64	74.00	-16.36	3	Horizontal	167	1.26
2440MHz	Pass	PK	2.44G	113.92	Inf	-Inf	3	Horizontal	167	1.26
2440MHz	Pass	PK	2.4868G	58.52	74.00	-15.48	3	Horizontal	167	1.26
2440MHz	Pass	AV	4.88086G	22.52	54.00	-31.48	3	Vertical	154	1.50
2440MHz	Pass	PK	4.88086G	42.52	74.00	-31.48	3	Vertical	154	1.50
2440MHz	Pass	AV	4.87983G	22.06	54.00	-31.94	3	Horizontal	177	1.45
2440MHz	Pass	PK	4.87983G	42.06	74.00	-31.94	3	Horizontal	177	1.45
2480MHz	Pass	AV	2.4794G	94.79	Inf	-Inf	3	Vertical	9	1.87
2480MHz	Pass	AV	2.4835G	48.50	54.00	-5.50	3	Vertical	9	1.87
2480MHz	Pass	PK	2.4794G	114.79	Inf	-Inf	3	Vertical	9	1.87
2480MHz	Pass	PK	2.4835G	68.50	74.00	-5.50	3	Vertical	9	1.87
2480MHz	Pass	AV	2.4794G	92.65	Inf	-Inf	3	Horizontal	167	1.43
2480MHz	Pass	AV	2.4835G	46.55	54.00	-7.45	3	Horizontal	167	1.43
2480MHz	Pass	PK	2.4794G	112.65	Inf	-Inf	3	Horizontal	167	1.43
2480MHz	Pass	PK	2.4835G	66.55	74.00	-7.45	3	Horizontal	167	1.43
2480MHz	Pass	AV	4.96088G	23.66	54.00	-30.34	3	Vertical	214	1.33
2480MHz	Pass	PK	4.96088G	43.66	74.00	-30.34	3	Vertical	214	1.33
2480MHz	Pass	AV	4.96102G	23.35	54.00	-30.65	3	Horizontal	212	1.44
2480MHz	Pass	PK	4.96102G	43.35	74.00	-30.65	3	Horizontal	212	1.44

2.4-2.4835GHz_Thread

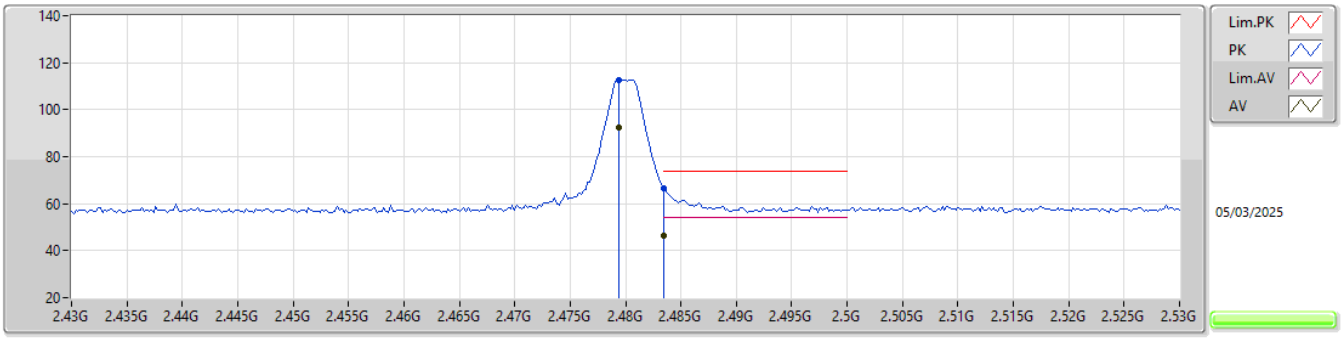
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4794G	94.79	Inf	-Inf	32.78	3	Vertical	9	1.87	62.01	27.79	4.99	-
AV	2.4835G	48.50	54.00	-5.50	32.84	3	Vertical	9	1.87	15.66	27.84	5.00	-
PK	2.4794G	114.79	Inf	-Inf	32.78	3	Vertical	9	1.87	82.01	27.79	4.99	-
PK	2.4835G	68.50	74.00	-5.50	32.84	3	Vertical	9	1.87	35.66	27.84	5.00	-

2.4-2.4835GHz_Thread

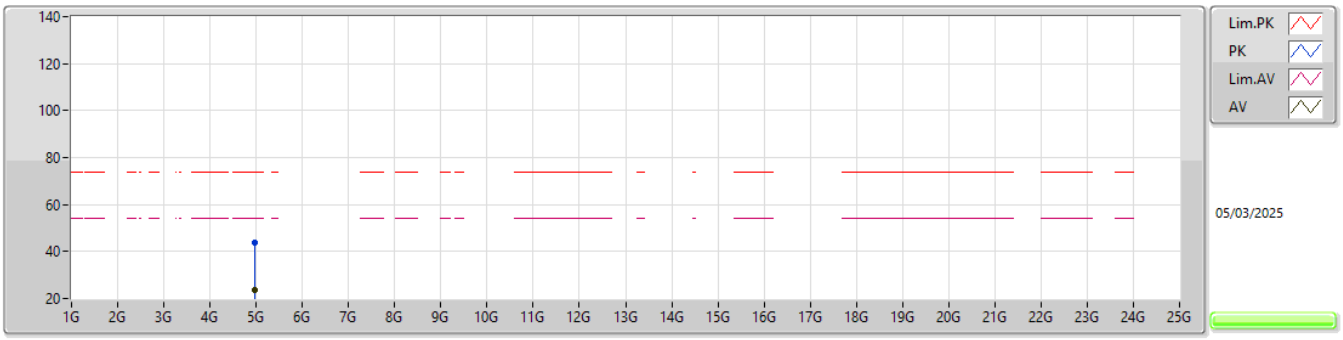
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.4794G	92.65	Inf	-Inf	32.78	3	Horizontal	167	1.43	59.87	27.79	4.99	-
AV	2.4835G	46.55	54.00	-7.45	32.84	3	Horizontal	167	1.43	13.71	27.84	5.00	-
PK	2.4794G	112.65	Inf	-Inf	32.78	3	Horizontal	167	1.43	79.87	27.79	4.99	-
PK	2.4835G	66.55	74.00	-7.45	32.84	3	Horizontal	167	1.43	33.71	27.84	5.00	-

2.4-2.4835GHz_Thread

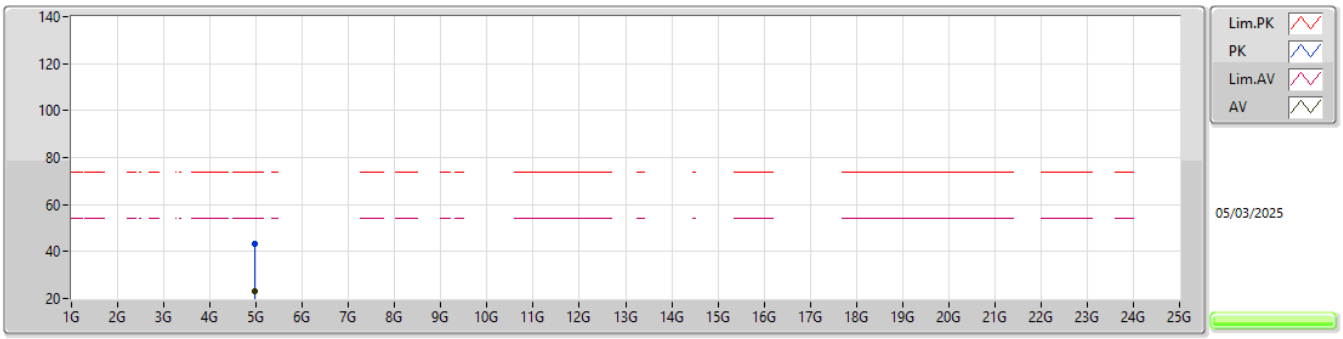
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.96088G	23.66	54.00	-30.34	5.18	3	Vertical	214	1.33	18.48	33.04	7.21	35.07
PK	4.96088G	43.66	74.00	-30.34	5.18	3	Vertical	214	1.33	38.48	33.04	7.21	35.07

2.4-2.4835GHz_Thread

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	4.96102G	23.35	54.00	-30.65	5.18	3	Horizontal	212	1.44	18.17	33.04	7.21	35.07
PK	4.96102G	43.35	74.00	-30.65	5.18	3	Horizontal	212	1.44	38.17	33.04	7.21	35.07

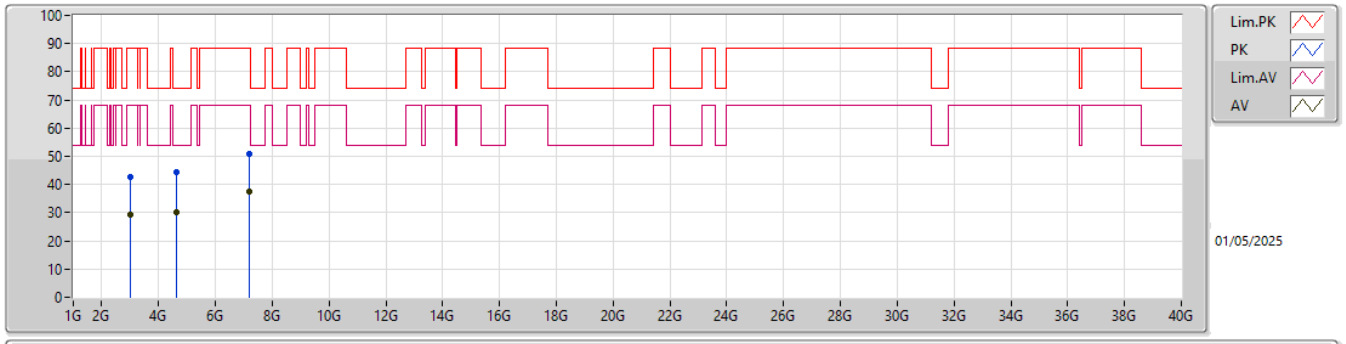
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	7.21282G	37.65	62.20	-24.55	Horizontal

Result

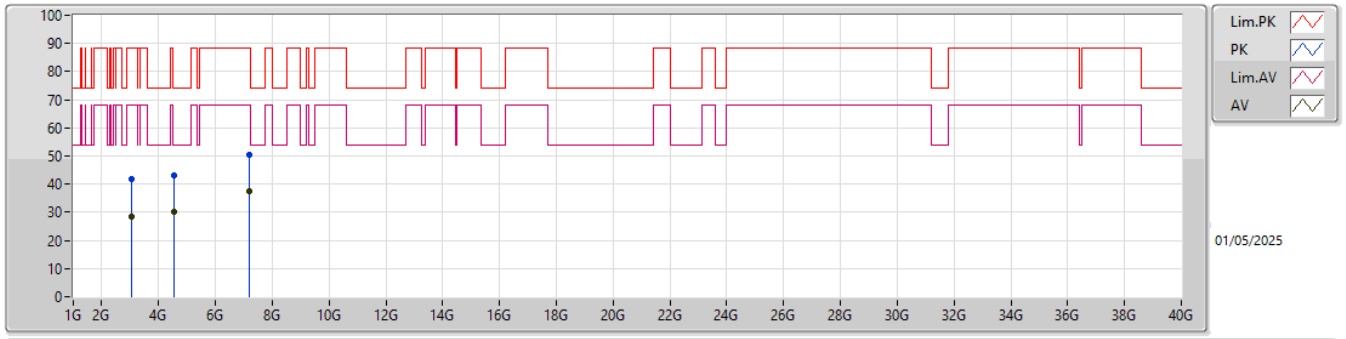
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
Mode 1	Pass	AV	2.99974G	29.45	62.20	-32.75	3	Vertical	227	2.77
Mode 1	Pass	AV	4.61402G	30.17	62.20	-32.03	3	Vertical	94	1.61
Mode 1	Pass	AV	7.20976G	37.56	62.20	-24.64	3	Vertical	28	1.85
Mode 1	Pass	PK	2.99938G	42.58	82.20	-39.62	3	Vertical	227	2.77
Mode 1	Pass	PK	4.62488G	44.32	82.20	-37.88	3	Vertical	94	1.61
Mode 1	Pass	PK	7.20318G	51.07	82.20	-31.13	3	Vertical	28	1.85
Mode 1	Pass	AV	3.04065G	28.57	62.20	-33.63	3	Horizontal	70	2.23
Mode 1	Pass	AV	4.55365G	30.38	62.20	-31.82	3	Horizontal	341	1.21
Mode 1	Pass	AV	7.21282G	37.65	62.20	-24.55	3	Horizontal	356	1.10
Mode 1	Pass	PK	3.03937G	41.64	82.20	-40.56	3	Horizontal	70	2.23
Mode 1	Pass	PK	4.55836G	43.22	82.20	-38.98	3	Horizontal	341	1.21
Mode 1	Pass	PK	7.2071G	50.26	82.20	-31.94	3	Horizontal	356	1.10

Radiated Emissions above 1GHz_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	2.99974G	29.45	68.20	-38.75	2.83	3	Vertical	227	2.77	26.62	29.60	6.55	33.32
AV	4.61402G	30.17	54.00	-23.83	6.44	3	Vertical	94	1.61	23.73	31.73	8.66	33.95
AV	7.20976G	37.56	68.20	-30.64	12.81	3	Vertical	28	1.85	24.75	36.92	10.24	34.35
PK	2.99938G	42.58	88.20	-45.62	2.82	3	Vertical	227	2.77	39.76	29.59	6.55	33.32
PK	4.62488G	44.32	74.00	-29.68	6.47	3	Vertical	94	1.61	37.85	31.75	8.67	33.95
PK	7.20318G	51.07	88.20	-37.13	12.79	3	Vertical	28	1.85	38.28	36.91	10.24	34.36

Radiated Emissions above 1GHz_Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	(dBuV)	(dB)	(dB)	(dB)
AV	3.04065G	28.57	68.20	-39.63	2.88	3	Horizontal	70	2.23	25.69	29.68	6.59	33.39
AV	4.55365G	30.38	54.00	-23.62	6.27	3	Horizontal	341	1.21	24.11	31.61	8.60	33.94
AV	7.21282G	37.65	68.20	-30.55	12.82	3	Horizontal	356	1.10	24.83	36.93	10.24	34.35
PK	3.03937G	41.64	88.20	-46.56	2.88	3	Horizontal	70	2.23	38.76	29.68	6.59	33.39
PK	4.55836G	43.22	74.00	-30.78	6.28	3	Horizontal	341	1.21	36.94	31.62	8.60	33.94
PK	7.2071G	50.26	88.20	-37.94	12.79	3	Horizontal	356	1.10	37.47	36.91	10.24	34.36