

FCC Radio Test Report

FCC ID : 2AXXJMG-MAM1
Equipment : Makalu Wireless Gaming Mouse
Brand Name : Makalu
Model Name : MG-MAM1-1
Applicant : 360 Service Agency GmbH
Rosastrasse 4, 79098 Freiburg, Germany
Manufacturer : 360 Service Agency GmbH
Rosastrasse 4, 79098 Freiburg, Germany
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 04, 2021, and testing was started from Mar. 20, 2021 and completed on Mar. 24, 2021. 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 C63.10-2013 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: Allen Lin

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	-
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: Sam Tsai

Report Producer: Ann Hou

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number
2400-2483.5	GFSK	2406-2478	1-5 [5]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	SRD	2	1TX

Channel	Freq.(MHz)	Channel	Freq.(MHz)
1	2406	4	2462
2	2414	5	2478
3	2435		

Note:..

- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Makalu	MG-MAM1-1	PCB	N/A	3.95

Note 1: The EUT has one antenna.

For SRD 2.4GHz function:

For SRD 2.4G mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter / Host system / Battery
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) $\geq 1/T$
SRD	0.007	21.55	2.5u	10k

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 C63.10-2013

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 (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. TW1190 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel	22.0~23.1°C / 51~56%	24/Mar/2021
RF Conducted	TH06-HY	Johnny	20.1~26.9°C / 50~60%	24/Mar/2021
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH09-HY	Lego	23.5~23.9°C / 53~59%	20/Mar/2021~23/Mar/2021

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
Conducted Emission (150kHz ~ 30MHz)	0.9 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	2.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.0 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	3.7V

2.2 Test Channel Mode

Test Software Version	Setup_SmartRF_Studio_7-2.6.1
-----------------------	------------------------------

Mode	Power Setting
SRD	-
2406MHz	default
2435MHz	default
2478MHz	default

2.3 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	1. Adapter mode; Charging
	2. USB mode; Charging

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	1. Adapter mode; Charging
	2. USB mode; Charging
	3. Battery mode; CTX
Operating Mode > 1GHz	1. Battery mode; CTX
Orthogonal Planes of EUT	Z Plane
	

2.4 Accessories

Accessories				
Battery	Brand Name	Dexin	Model Name	FT102545P
	Manufacturer	Hangzhou Future Power Technology Co., Ltd		
	Power Rating	3.7Vdc, 1000mAh	Type	Li-ion polymer
USB Dongle	Brand Name	Makalu	Model Name	MG-MAM1-1-DONGLE
	Manufacturer	Dexin Electronics Co.,Ltd.		
USB type A to type C Adapter	Brand Name	DEXIN	Model Name	DP-457 Adapter
	Manufacturer	Dexin Electronics Co.,Ltd		
USB Cable	Brand Name	DEXIN	Model Name	DP-457
	Manufacturer	DONGGUAN YEUYANG WIRE&CABLE CO.,LTD		
	Signal Line	1.83 meter, shielded cable, w/o ferrite core		

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

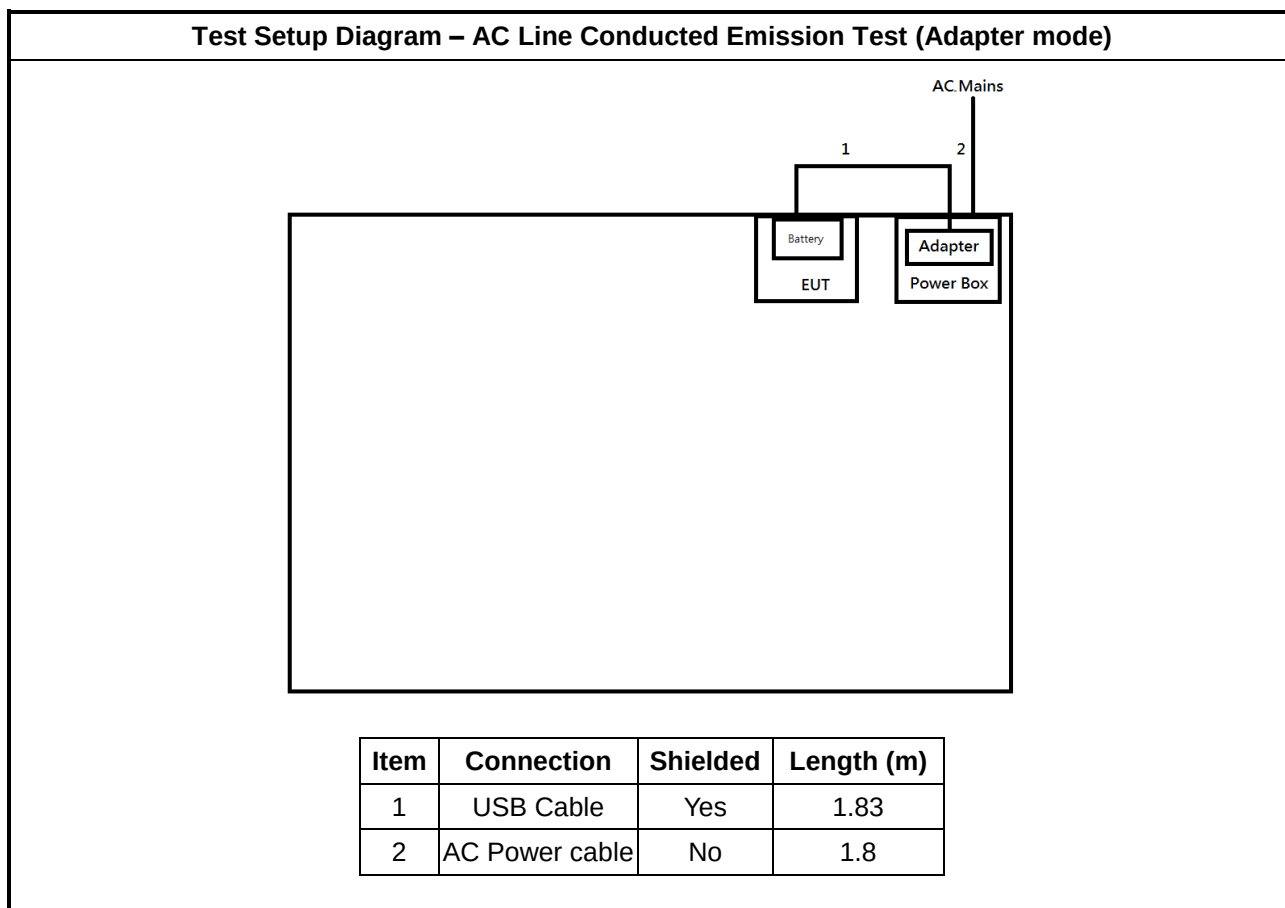
2.5 Support Equipment

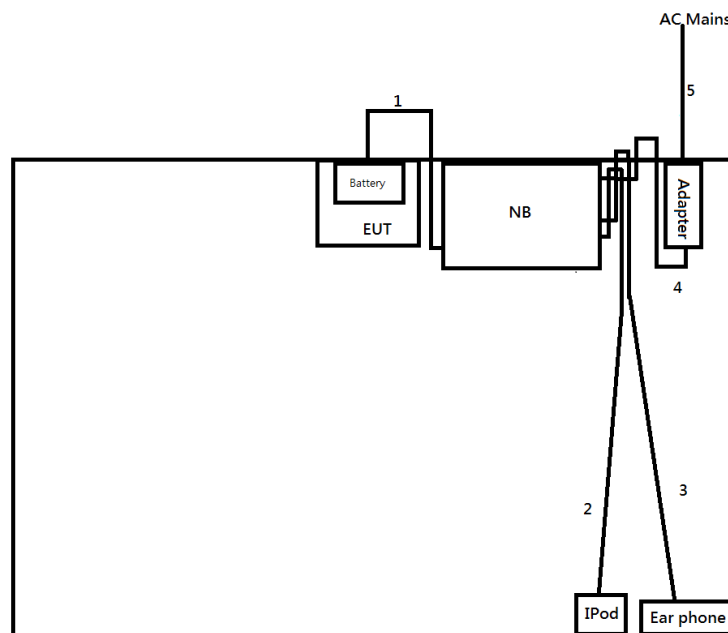
Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter for NB	HP	PPP012L-E	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	iPod	Apple	YM719D8YVQ5	-	-
4	30-pin to USB Original Cable	Apple	MA591GC	-	-
5	Earphone	Apple	MD827FEA	-	-
6	Notebook	HP	HSTNN-Q85C	-	-
7	AC adapter	Apple	A1385	-	-

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

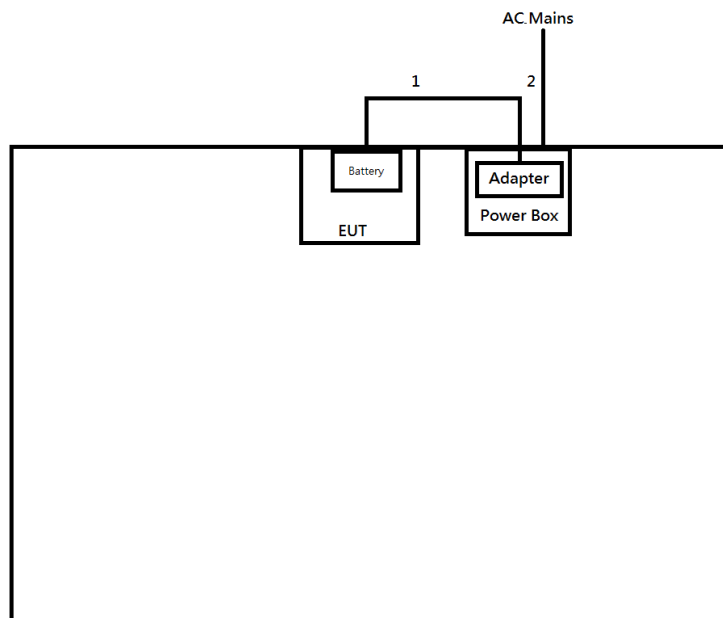
Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	AC Adapter for NB	HP	PPP012L-E	-	-
2	AC Power cable	Power sync	PW-GPC180-3	-	-
3	iPod	Apple	YM719D8YVQ5	-	-
4	30-pin to USB Original Cable	Apple	MA591GC	-	-
5	Earphone	Apple	MD827FEA	-	-
6	Notebook	HP	HSTNN-Q85C	-	-
7	AC adapter	Apple	A1385	-	-

2.6 Test Setup Diagram

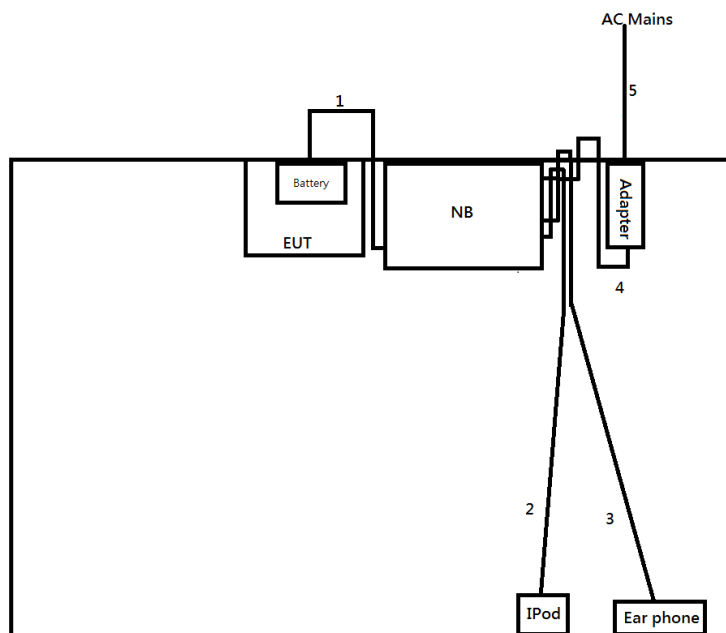


Test Setup Diagram – AC Line Conducted Emission Test (USB mode)


Item	Connection	Shielded	Length (m)
1	USB Cable	Yes	1.83
2	30-pin to USB Original Cable	No	1.0
3	Audio Cable	No	1.25
4	DC Power cable	No	1.5
5	AC Power cable	No	1.8

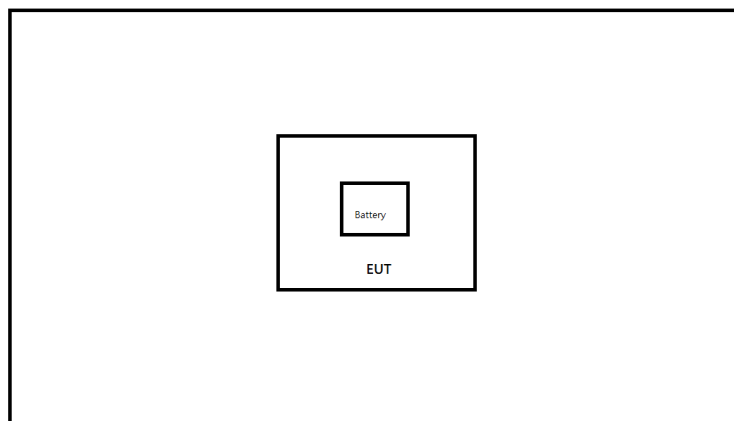
Test Setup Diagram - Radiated Test (Adapter mode)


Item	Connection	Shielded	Length (m)
1	USB cable	Yes	1.83
2	AC Power cable	No	1.8

Test Setup Diagram - Radiated Test (USB mode)


Item	Connection	Shielded	Length (m)
1	USB cable	Yes	1.83
2	30-pin to USB Original Cable	No	1.0
3	Audio Cable	No	1.25
4	DC Power cable	No	1.5
5	AC Power cable	No	1.8

Test Setup Diagram - Radiated Test (Battery mode)



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

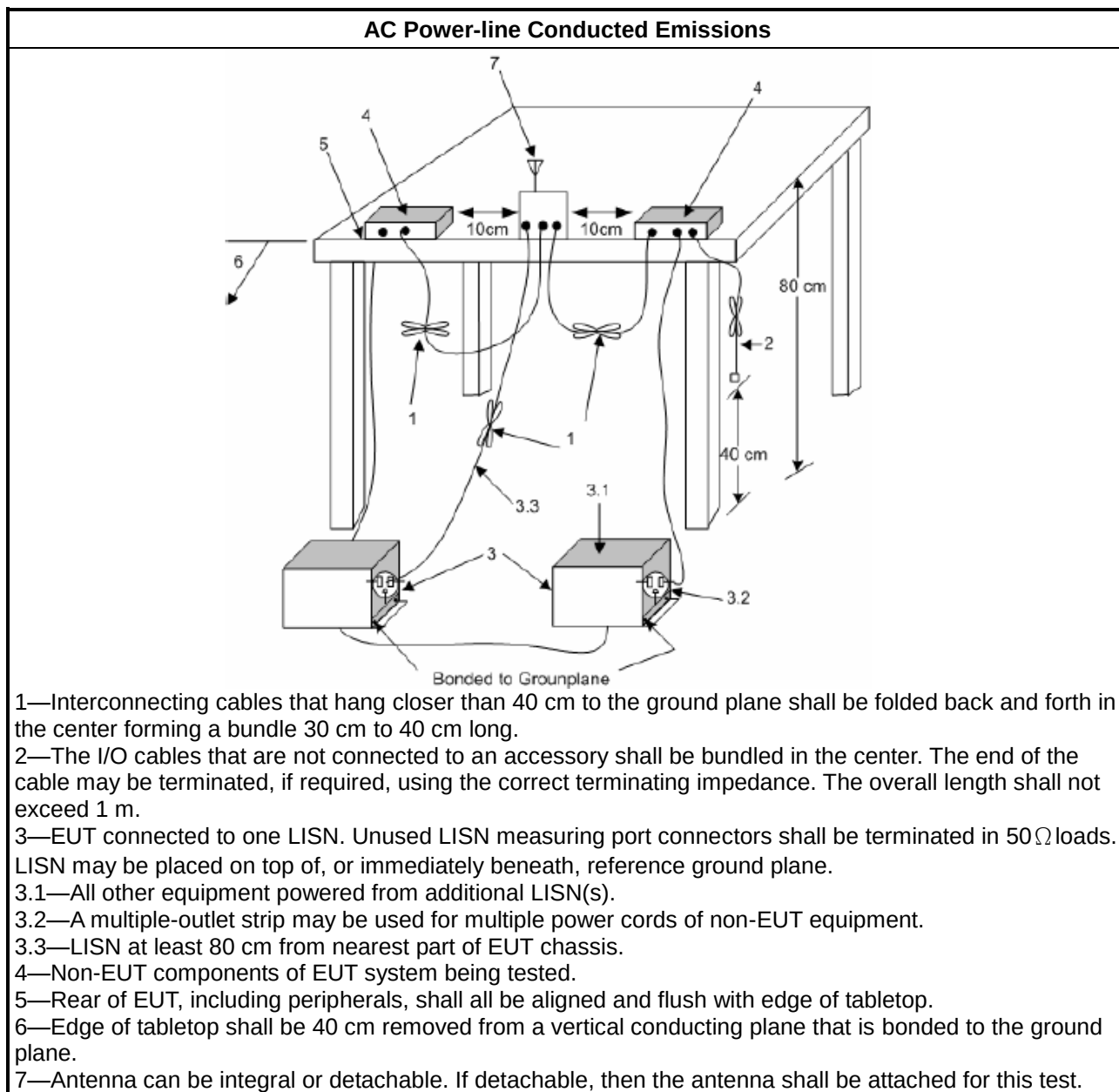
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

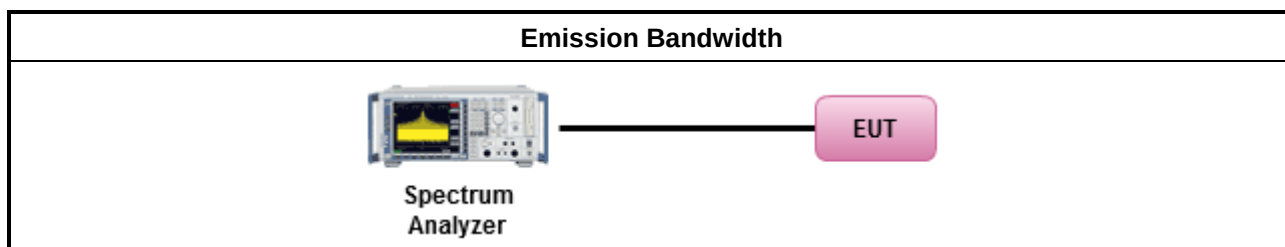
3.2.2 Measuring Instruments

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



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 $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ 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 $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.	

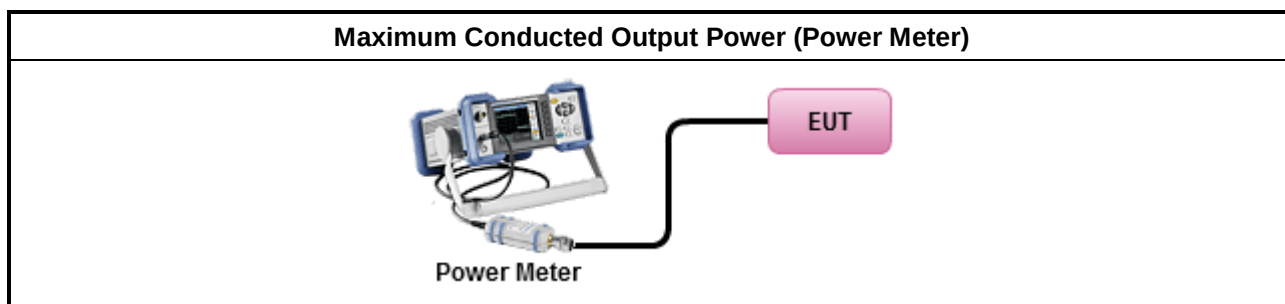
3.3.2 Measuring Instruments

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 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 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: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



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

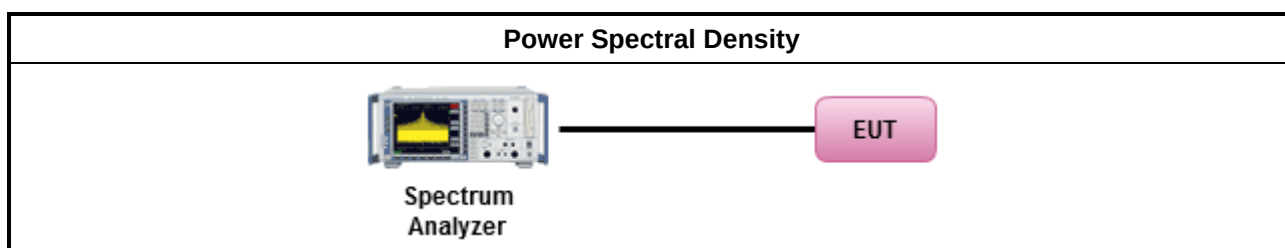
3.4.2 Measuring Instruments

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



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.	

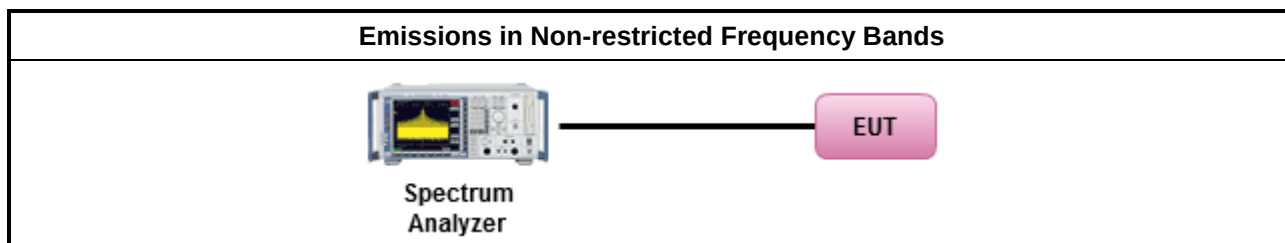
3.5.2 Measuring Instruments

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



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

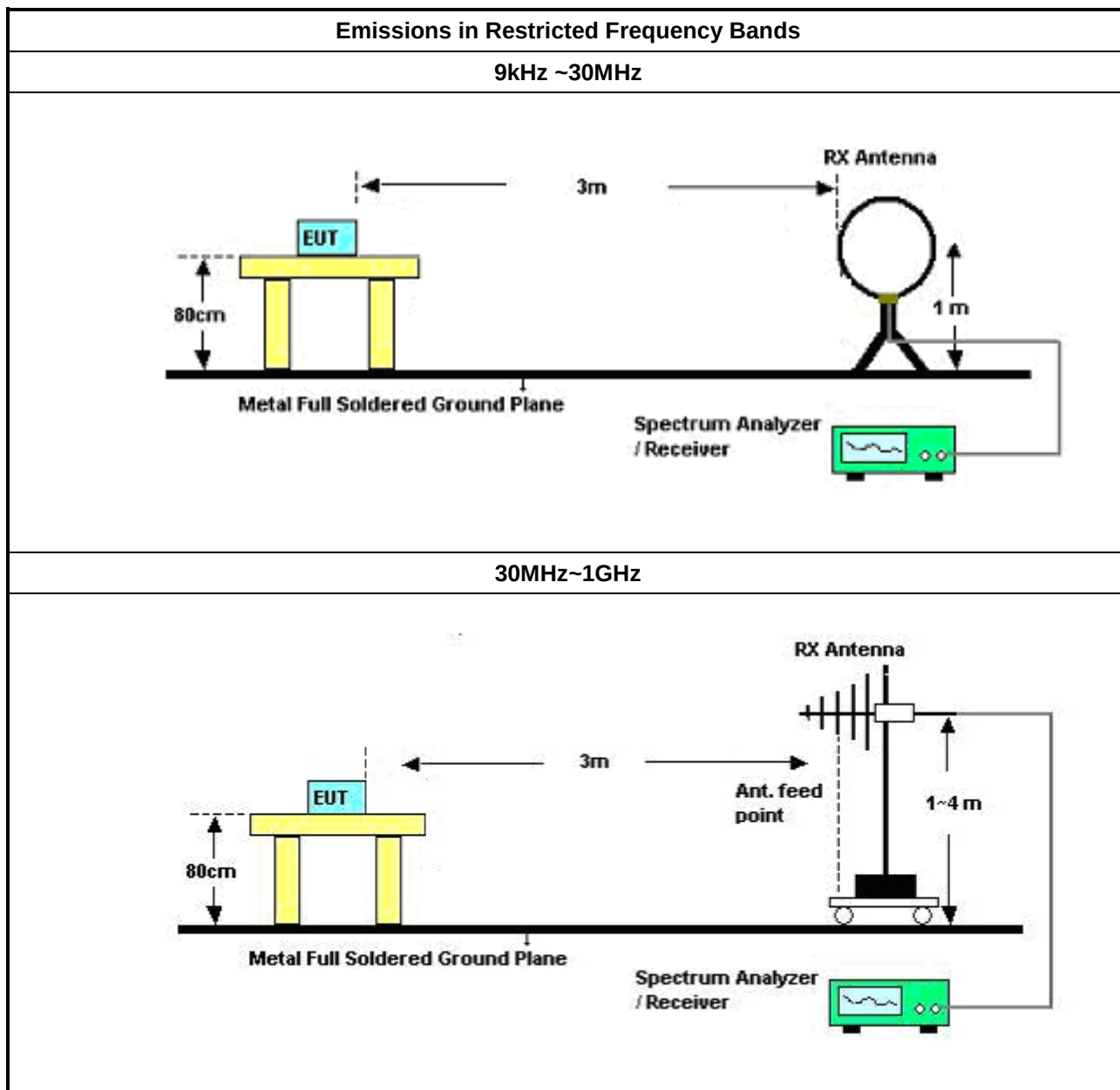
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted 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 $f \geq 1$ 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(Preamplifier Factor)

3.6.5 Test Setup





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	R&S	ESR3	102051	9kHz ~ 3.6GHz	29/May/2020	28/May/2021
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	11/Nov/2020	10/Nov/2021
RF Cable 5m	TITAN	TITAN	CO04-cable-01	0.1MHz~200MHz	03/Mar/2021	02/Mar/2022
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	21/Sep/2020	20/Sep/2021

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	19/Oct/2020	18/Oct/2021
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	20/Oct/2020	19/Oct/2021
Pulse Sensor	Anritsu	MA2411B	0917017	300MHz~40GHz	23/Feb/2021	22/Feb/2022
Power Meter	Anritsu	ML2495A	0949003	300MHz~40GHz	23/Feb/2021	22/Feb/2022

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	27/Mar/2020	26/Mar/2021
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz 3m	18/Mar/2021	17/Mar/2022
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2020	10/Aug/2021
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	14/Apr/2020	13/Apr/2021
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	24/Jul/2020	23/Jul/2021
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	06/Sep/2020	05/Sep/2021
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	28/May/2020	27/May/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	9kHz~30MHz	03/Sep/2020	02/Sep/2021
RF Cable-low	Jye Bao	RG142	CB031+324530/4	30MHz~1GHz	09/Feb/2021	08/Feb/2022
RF CABLE 5m+3m+1m	HUBER+SUHNER	SUCOFLEX104	SN MY25918/4+ SN MY39478/4 + SN 324530/4	1GHz~40GHz	15/Aug/2020	14/Aug/2021
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	11/Mar/2021	10/Mar/2022
Loop Antenna	Teseq	HLA 6120	24155	9kHz~30MHz	13/Apr/2020	12/Apr/2021
EMI Test Receiver	R&S	ESR3	102051	9kHz~3.6GHz	29/May/2020	28/May/2021



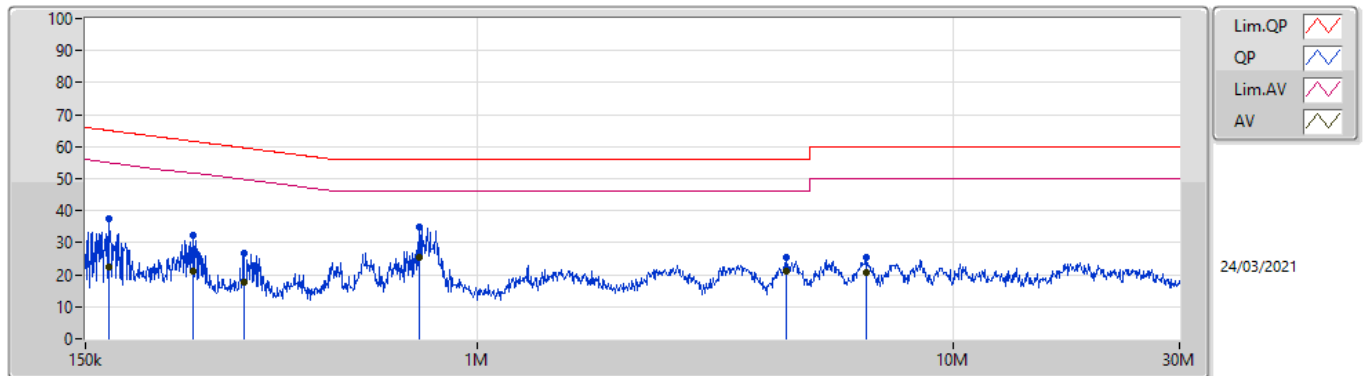
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	755.518k	25.55	46.00	-20.45	Line
Mode 2	Pass	QP	152.414k	49.91	65.87	-15.96	Neutral

Mode Configure

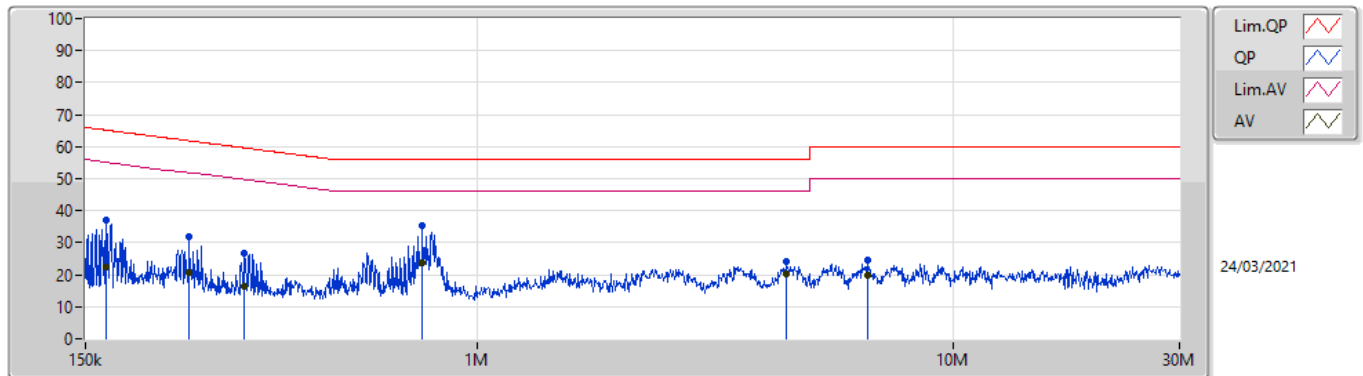
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	167.739k	37.42	65.06	-27.64	Line	-
Mode 1	Pass	AV	167.739k	22.57	55.06	-32.49	Line	-
Mode 1	Pass	QP	252.043k	32.48	61.70	-29.22	Line	-
Mode 1	Pass	AV	252.043k	21.09	51.70	-30.61	Line	-
Mode 1	Pass	QP	322.823k	26.52	59.63	-33.11	Line	-
Mode 1	Pass	AV	322.823k	17.47	49.63	-32.16	Line	-
Mode 1	Pass	QP	755.518k	34.74	56.00	-21.26	Line	-
Mode 1	Pass	AV	755.518k	25.55	46.00	-20.45	Line	-
Mode 1	Pass	QP	4.482M	25.39	56.00	-30.61	Line	-
Mode 1	Pass	AV	4.482M	21.01	46.00	-24.99	Line	-
Mode 1	Pass	QP	6.575M	25.34	60.00	-34.66	Line	-
Mode 1	Pass	AV	6.575M	20.90	50.00	-29.10	Line	-
Mode 1	Pass	QP	165.743k	37.16	65.18	-28.02	Neutral	-
Mode 1	Pass	AV	165.743k	22.37	55.18	-32.81	Neutral	-
Mode 1	Pass	QP	248.05k	31.82	61.81	-29.99	Neutral	-
Mode 1	Pass	AV	248.05k	20.58	51.81	-31.23	Neutral	-
Mode 1	Pass	QP	324.114k	26.72	59.59	-32.87	Neutral	-
Mode 1	Pass	AV	324.114k	16.26	49.59	-33.33	Neutral	-
Mode 1	Pass	QP	767.679k	35.50	56.00	-20.50	Neutral	-
Mode 1	Pass	AV	767.679k	23.74	46.00	-22.26	Neutral	-
Mode 1	Pass	QP	4.482M	24.30	56.00	-31.70	Neutral	-
Mode 1	Pass	AV	4.482M	20.13	46.00	-25.87	Neutral	-
Mode 1	Pass	QP	6.628M	24.42	60.00	-35.58	Neutral	-
Mode 1	Pass	AV	6.628M	19.88	50.00	-30.12	Neutral	-
Mode 2	Pass	QP	184.605k	48.20	64.28	-16.08	Line	-
Mode 2	Pass	AV	184.605k	32.83	54.28	-21.45	Line	-
Mode 2	Pass	QP	247.062k	34.63	61.85	-27.22	Line	-
Mode 2	Pass	AV	247.062k	26.39	51.85	-25.46	Line	-
Mode 2	Pass	QP	316.443k	27.66	59.80	-32.14	Line	-
Mode 2	Pass	AV	316.443k	20.09	49.80	-29.71	Line	-
Mode 2	Pass	QP	487.008k	22.51	56.21	-33.70	Line	-
Mode 2	Pass	AV	487.008k	18.49	46.21	-27.72	Line	-
Mode 2	Pass	QP	2.31M	22.02	56.00	-33.98	Line	-
Mode 2	Pass	AV	2.31M	17.04	46.00	-28.96	Line	-
Mode 2	Pass	QP	7.964M	19.89	60.00	-40.11	Line	-
Mode 2	Pass	AV	7.964M	16.67	50.00	-33.33	Line	-
Mode 2	Pass	QP	152.414k	49.91	65.87	-15.96	Neutral	-
Mode 2	Pass	AV	152.414k	34.35	55.87	-21.52	Neutral	-
Mode 2	Pass	QP	169.76k	48.38	64.97	-16.59	Neutral	-
Mode 2	Pass	AV	169.76k	33.43	54.97	-21.54	Neutral	-
Mode 2	Pass	QP	213.137k	40.35	63.07	-22.72	Neutral	-
Mode 2	Pass	AV	213.137k	27.99	53.07	-25.08	Neutral	-
Mode 2	Pass	QP	504.824k	22.68	56.00	-33.32	Neutral	-
Mode 2	Pass	AV	504.824k	18.21	46.00	-27.79	Neutral	-
Mode 2	Pass	QP	2.167M	19.30	56.00	-36.70	Neutral	-
Mode 2	Pass	AV	2.167M	15.63	46.00	-30.37	Neutral	-
Mode 2	Pass	QP	26.273M	24.49	60.00	-35.51	Neutral	-
Mode 2	Pass	AV	26.273M	20.06	50.00	-29.94	Neutral	-

Conducted Emissions at Powerline_Mode 1



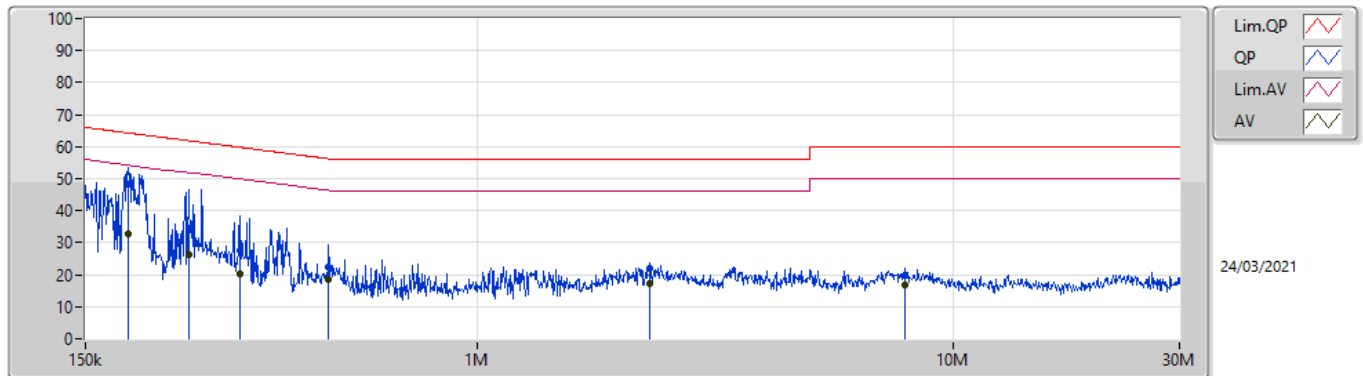
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	167.739k	37.42	65.06	-27.64	19.63	Line	-	17.79	9.69	0.04	9.90			
AV	167.739k	22.57	55.06	-32.49	19.63	Line	-	2.94	9.69	0.04	9.90			
QP	252.043k	32.48	61.70	-29.22	19.63	Line	-	12.85	9.68	0.05	9.90			
AV	252.043k	21.09	51.70	-30.61	19.63	Line	-	1.46	9.68	0.05	9.90			
QP	322.823k	26.52	59.63	-33.11	19.62	Line	-	6.90	9.67	0.05	9.90			
AV	322.823k	17.47	49.63	-32.16	19.62	Line	-	-2.15	9.67	0.05	9.90			
QP	755.518k	34.74	56.00	-21.26	19.57	Line	-	15.17	9.67	0.07	9.83			
AV	755.518k	25.55	46.00	-20.45	19.57	Line	-	5.98	9.67	0.07	9.83			
QP	4.482M	25.39	56.00	-30.61	19.74	Line	-	5.65	9.69	0.15	9.90			
AV	4.482M	21.01	46.00	-24.99	19.74	Line	-	1.27	9.69	0.15	9.90			
QP	6.575M	25.34	60.00	-34.66	19.78	Line	-	5.56	9.71	0.17	9.90			
AV	6.575M	20.90	50.00	-29.10	19.78	Line	-	1.12	9.71	0.17	9.90			

Conducted Emissions at Powerline_Mode 1



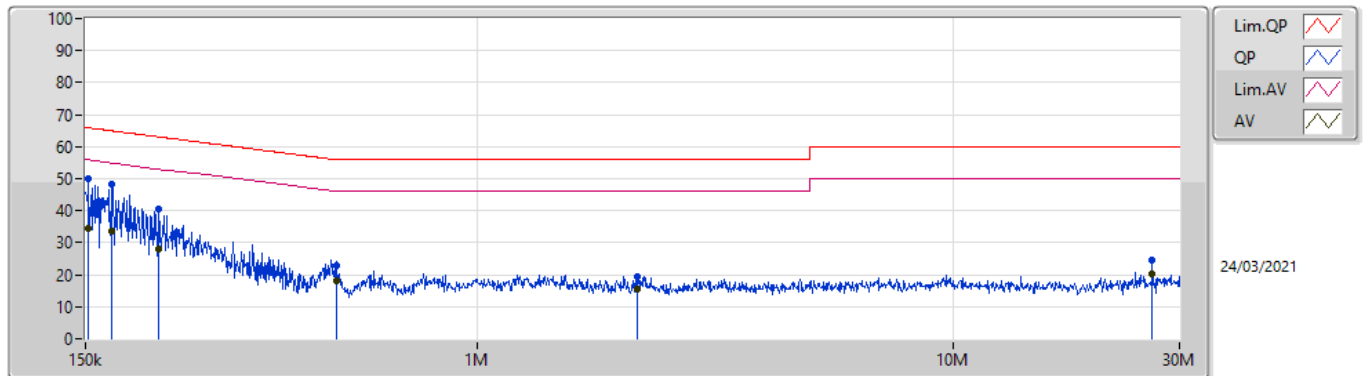
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	165.743k	37.16	65.18	-28.02	19.63	Neutral	-	17.53	9.69	0.04	9.90			
AV	165.743k	22.37	55.18	-32.81	19.63	Neutral	-	2.74	9.69	0.04	9.90			
QP	248.05k	31.82	61.81	-29.99	19.63	Neutral	-	12.19	9.68	0.05	9.90			
AV	248.05k	20.58	51.81	-31.23	19.63	Neutral	-	0.95	9.68	0.05	9.90			
QP	324.114k	26.72	59.59	-32.87	19.62	Neutral	-	7.10	9.67	0.05	9.90			
AV	324.114k	16.26	49.59	-33.33	19.62	Neutral	-	-3.36	9.67	0.05	9.90			
QP	767.679k	35.50	56.00	-20.50	19.57	Neutral	-	15.93	9.67	0.07	9.83			
AV	767.679k	23.74	46.00	-22.26	19.57	Neutral	-	4.17	9.67	0.07	9.83			
QP	4.482M	24.30	56.00	-31.70	19.74	Neutral	-	4.56	9.69	0.15	9.90			
AV	4.482M	20.13	46.00	-25.87	19.74	Neutral	-	0.39	9.69	0.15	9.90			
QP	6.628M	24.42	60.00	-35.58	19.78	Neutral	-	4.64	9.71	0.17	9.90			
AV	6.628M	19.88	50.00	-30.12	19.78	Neutral	-	0.10	9.71	0.17	9.90			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	184.605k	48.20	64.28	-16.08	19.62	Line	-	28.58	9.68	0.04	9.90			
AV	184.605k	32.83	54.28	-21.45	19.62	Line	-	13.21	9.68	0.04	9.90			
QP	247.062k	34.63	61.85	-27.22	19.63	Line	-	15.00	9.68	0.05	9.90			
AV	247.062k	26.39	51.85	-25.46	19.63	Line	-	6.76	9.68	0.05	9.90			
QP	316.443k	27.66	59.80	-32.14	19.62	Line	-	8.04	9.67	0.05	9.90			
AV	316.443k	20.09	49.80	-29.71	19.62	Line	-	0.47	9.67	0.05	9.90			
QP	487.008k	22.51	56.21	-33.70	19.61	Line	-	2.90	9.67	0.06	9.88			
AV	487.008k	18.49	46.21	-27.72	19.61	Line	-	-1.12	9.67	0.06	9.88			
QP	2.31M	22.02	56.00	-33.98	19.61	Line	-	2.41	9.68	0.11	9.82			
AV	2.31M	17.04	46.00	-28.96	19.61	Line	-	-2.57	9.68	0.11	9.82			
QP	7.964M	19.89	60.00	-40.11	19.80	Line	-	0.09	9.71	0.19	9.90			
AV	7.964M	16.67	50.00	-33.33	19.80	Line	-	-3.13	9.71	0.19	9.90			

Conducted Emissions at Powerline_Mode 2



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	152.414k	49.91	65.87	-15.96	19.63	Neutral	-	30.28	9.69	0.04	9.90			
AV	152.414k	34.35	55.87	-21.52	19.63	Neutral	-	14.72	9.69	0.04	9.90			
QP	169.76k	48.38	64.97	-16.59	19.63	Neutral	-	28.75	9.69	0.04	9.90			
AV	169.76k	33.43	54.97	-21.54	19.63	Neutral	-	13.80	9.69	0.04	9.90			
QP	213.137k	40.35	63.07	-22.72	19.62	Neutral	-	20.73	9.68	0.04	9.90			
AV	213.137k	27.99	53.07	-25.08	19.62	Neutral	-	8.37	9.68	0.04	9.90			
QP	504.824k	22.68	56.00	-33.32	19.61	Neutral	-	3.07	9.67	0.07	9.87			
AV	504.824k	18.21	46.00	-27.79	19.61	Neutral	-	-1.40	9.67	0.07	9.87			
QP	2.167M	19.30	56.00	-36.70	19.59	Neutral	-	-0.29	9.68	0.10	9.81			
AV	2.167M	15.63	46.00	-30.37	19.59	Neutral	-	-3.96	9.68	0.10	9.81			
QP	26.273M	24.49	60.00	-35.51	19.95	Neutral	-	4.54	9.72	0.33	9.90			
AV	26.273M	20.06	50.00	-29.94	19.95	Neutral	-	0.11	9.72	0.33	9.90			



Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
SRD	815k	1.663M	1M66D1D	800k	1.63M

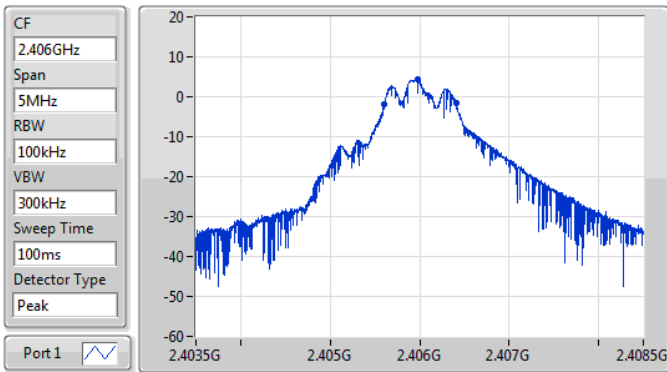
Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
SRD	-	-	-	-
2406MHz	Pass	500k	800k	1.63M
2435MHz	Pass	500k	805k	1.64M
2478MHz	Pass	500k	815k	1.663M

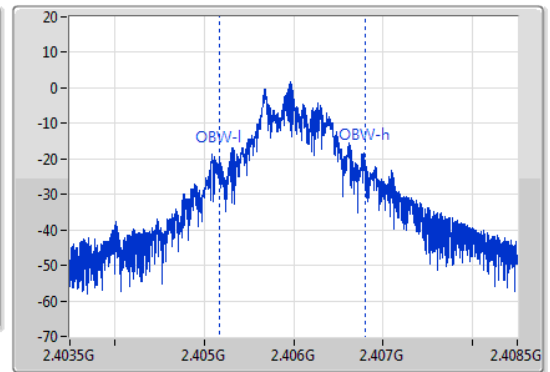
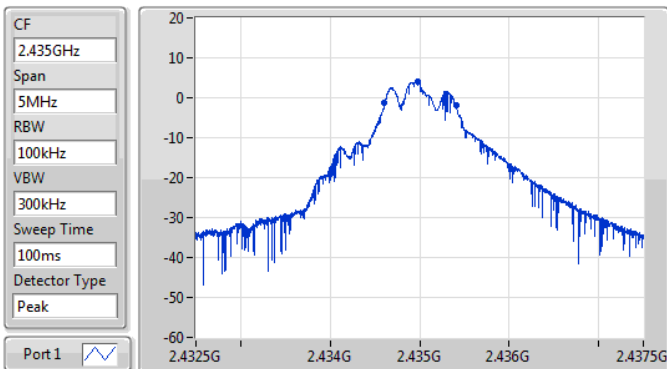
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

SRD
2406MHz


6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
800k	2.405605G	2.406405G	1.63M	2.40517G	2.4068G	500k	1

EBW-DTS

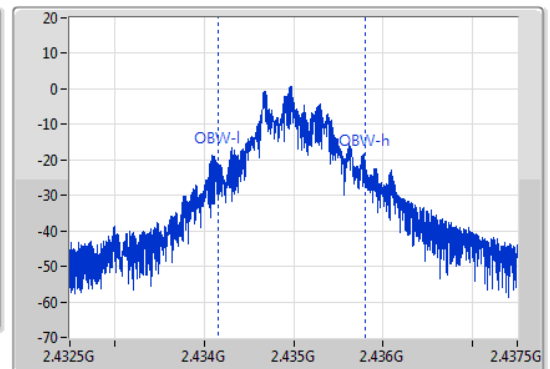
24/03/2021


SRD
2435MHz


6dB(Hz)	FI-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
805k	2.434605G	2.43541G	1.64M	2.434163G	2.435803G	500k	1

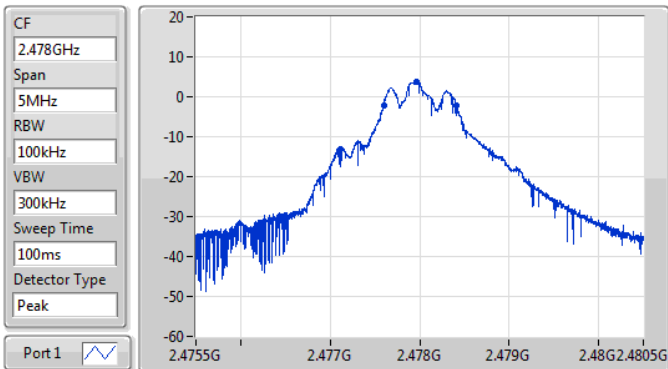
EBW-DTS

24/03/2021



SRD

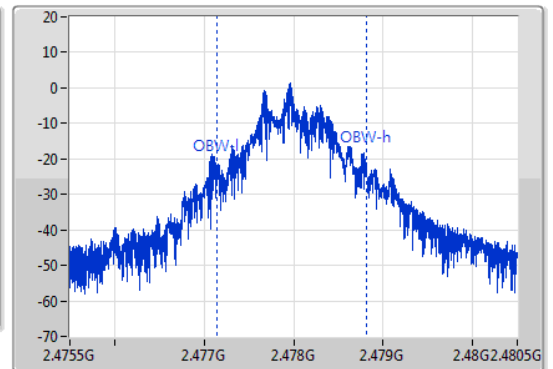
2478MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
815k	2.477598G	2.478413G	1.663M	2.477148G	2.47881G	500k	1

EBW-DTS

24/03/2021





Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
SRD	3.84	0.00242



Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
SRD	-	-	-	-
2406MHz	Pass	3.95	3.84	30.00
2435MHz	Pass	3.95	3.69	30.00
2478MHz	Pass	3.95	3.41	30.00

DG = Directional Gain; Port X = Port X output power



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
SRD	-13.96

RBW = 3kHz;



Result

Mode	Result	Gain (dBi)	PD (dBm/RBW)	PD Limit (dBm/RBW)
SRD	-	-	-	-
2406MHz	Pass	3.95	-13.96	8.00
2435MHz	Pass	3.95	-14.00	8.00
2478MHz	Pass	3.95	-14.08	8.00

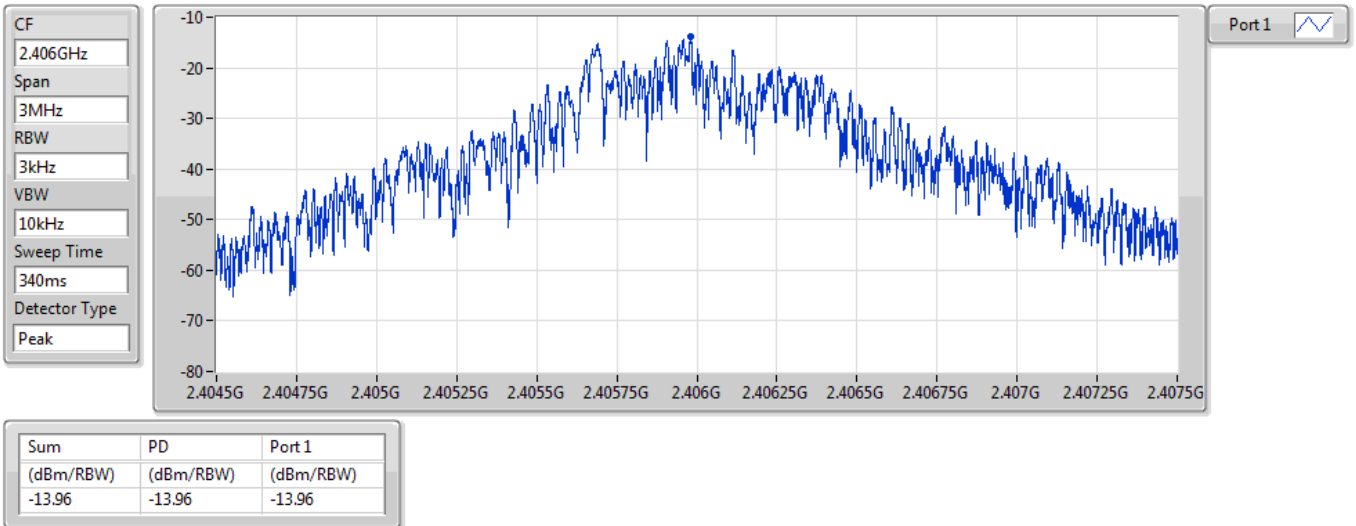
DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

SRD

2406MHz

PSD

24/03/2021

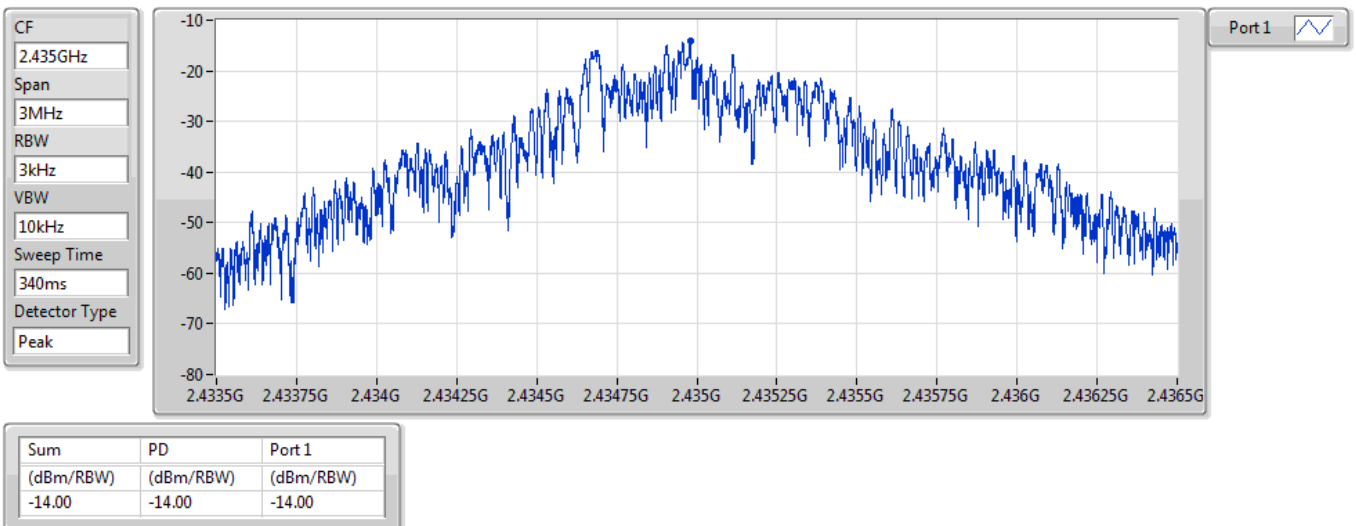


SRD

2435MHz

PSD

24/03/2021



SRD

PSD

2478MHz

24/03/2021

CF
2.478GHz

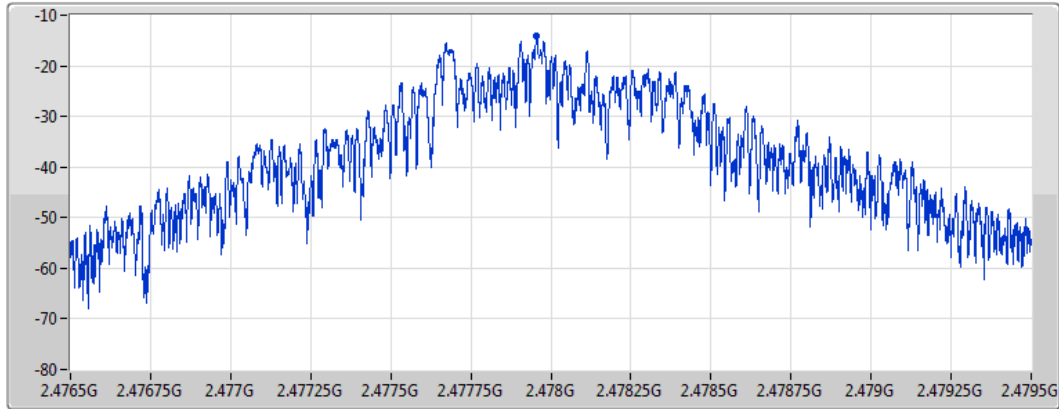
Span
3MHz

RBW
3kHz

VBW
10kHz

Sweep Time
340ms

Detector Type
Peak



Port 1 

Sum	PD	Port 1
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-14.08	-14.08	-14.08



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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SRD	Pass	2.40597G	4.23	-25.77	1.62829G	-45.25	2.39865G	-40.69	2.4G	-43.70	2.50157G	-43.64	21.88705G	-35.45	1



Result

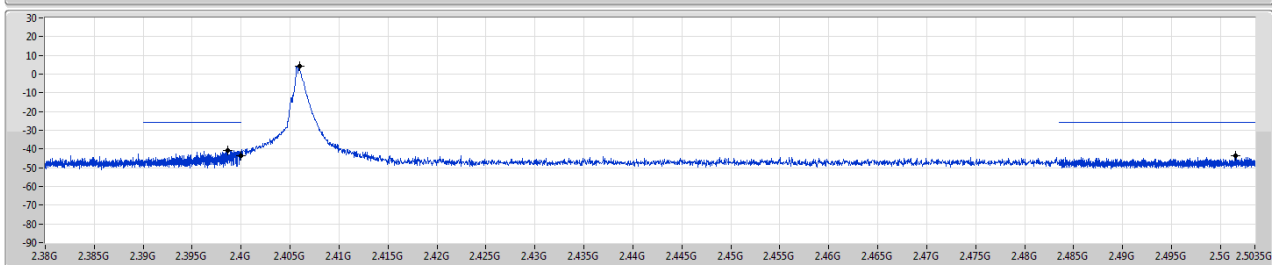
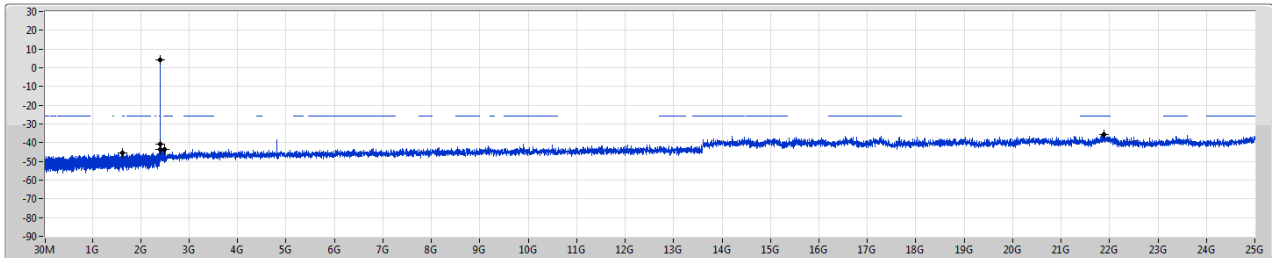
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
SRD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2406MHz	Pass	2.40597G	4.23	-25.77	1.62829G	-45.25	2.39865G	-40.69	2.4G	-43.70	2.50157G	-43.64	21.88705G	-35.45	1
2435MHz	Pass	2.40597G	4.23	-25.77	2.19993G	-44.99	2.39714G	-43.93	2.4835G	-46.95	2.50336G	-44.63	24.92407G	-35.92	1
2478MHz	Pass	2.40597G	4.23	-25.77	1.86888G	-45.28	2.39433G	-43.78	2.4835G	-44.45	2.48362G	-41.22	21.90954G	-35.89	1

SRD

2406MHz

CSEndB-DTS

24/03/2021



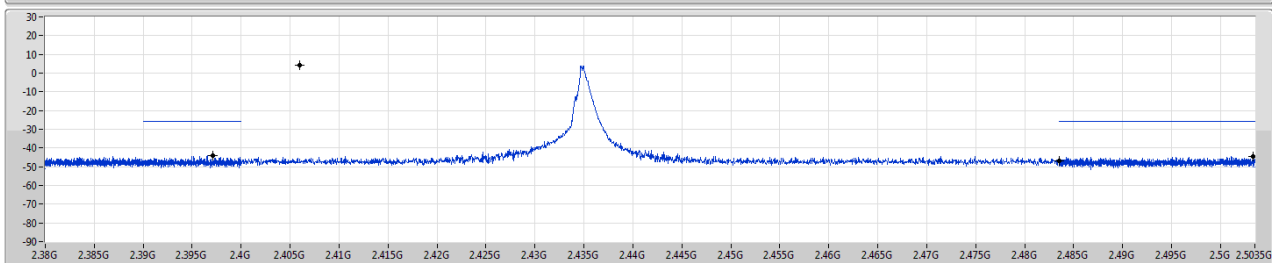
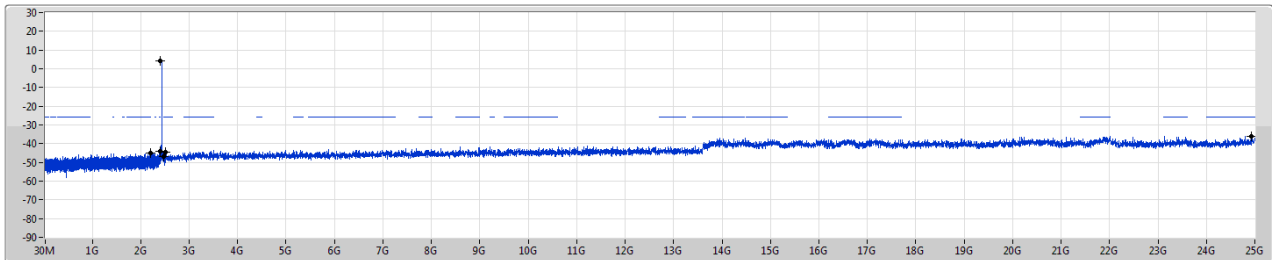
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.40597G	4.23	-25.77	1.62829G	-45.25	2.39865G	-40.69	2.4G	-43.70	2.50157G	-43.64	21.88705G	-35.45	1

SRD

2435MHz

CSEndB-DTS

24/03/2021



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
2.40597G	4.23	-25.77	2.19993G	-44.99	2.39714G	-43.93	2.4835G	-46.95	2.50336G	-44.63	24.92407G	-35.92	1

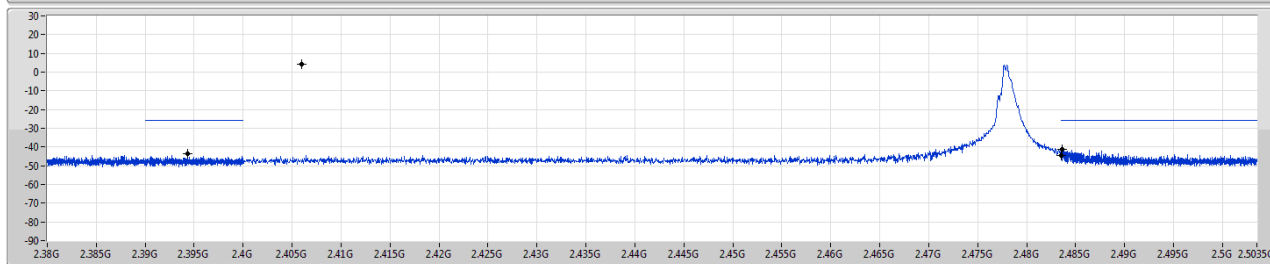
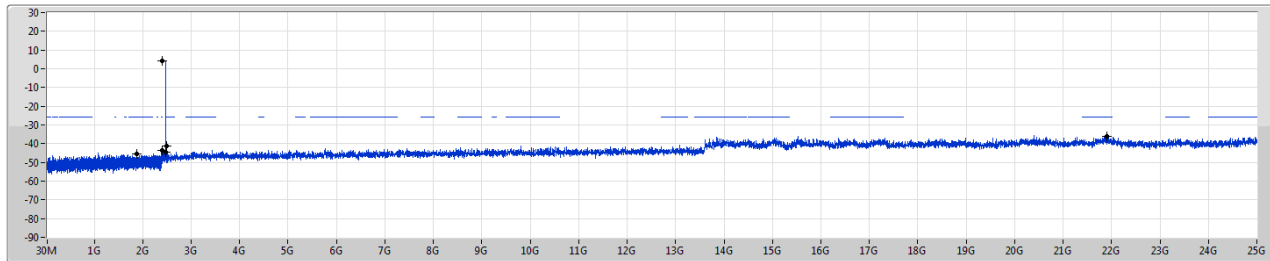
SRD

2478MHz

CSEndB-DTS

24/03/2021

Port 1



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

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
2.40597G	4.23	-25.77	1.86888G	-45.28	2.39433G	-43.78	2.4835G	-44.45	2.48362G	-41.22	21.90954G	-35.89	1

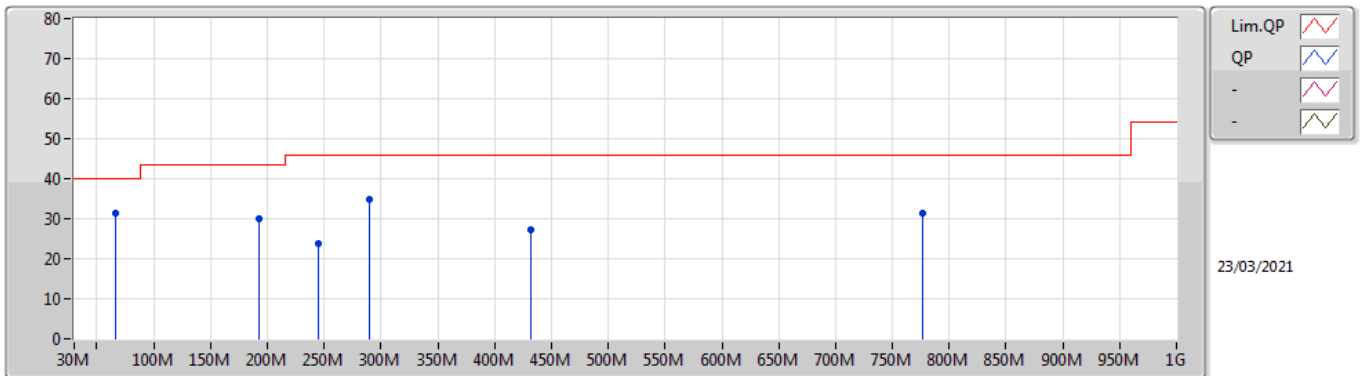
**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	PK	66.86M	31.26	40.00	-8.74	3	Vertical	0	1.00	-
Mode 2	Pass	PK	295.78M	41.27	46.00	-4.73	3	Horizontal	360	1.00	-

Mode Configure

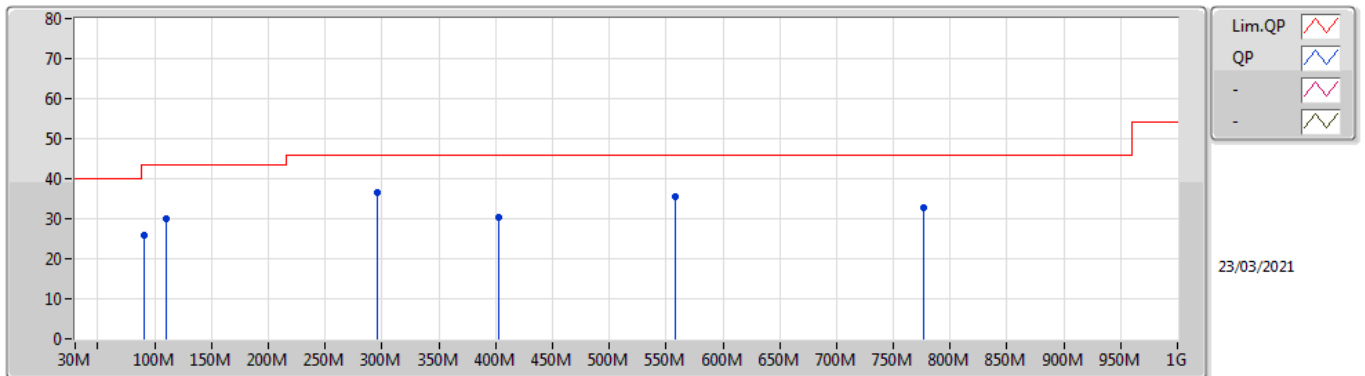
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	PK	66.86M	31.26	40.00	-8.74	3	Vertical	0	1.00	-
Mode 1	Pass	PK	192.96M	29.85	43.50	-13.65	3	Vertical	0	1.00	-
Mode 1	Pass	PK	289.96M	34.93	46.00	-11.07	3	Vertical	0	1.00	-
Mode 1	Pass	PK	431.58M	27.08	46.00	-18.92	3	Vertical	0	1.00	-
Mode 1	Pass	PK	776.9M	31.49	46.00	-14.51	3	Vertical	0	1.00	-
Mode 1	Pass	QP	245.34M	23.85	46.00	-22.15	3	Vertical	329	3.00	-
Mode 1	Pass	PK	90.14M	25.86	43.50	-17.64	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	109.54M	29.91	43.50	-13.59	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	295.78M	36.63	46.00	-9.37	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	402.48M	30.37	46.00	-15.63	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	557.68M	35.43	46.00	-10.57	3	Horizontal	360	1.00	-
Mode 1	Pass	PK	776.9M	32.84	46.00	-13.16	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	86.26M	29.19	40.00	-10.81	3	Vertical	0	1.00	-
Mode 2	Pass	PK	212.36M	33.39	43.50	-10.11	3	Vertical	0	1.00	-
Mode 2	Pass	PK	291.9M	40.97	46.00	-5.03	3	Vertical	0	1.00	-
Mode 2	Pass	PK	518.88M	31.02	46.00	-14.98	3	Vertical	0	1.00	-
Mode 2	Pass	PK	776.9M	32.85	46.00	-13.15	3	Vertical	0	1.00	-
Mode 2	Pass	QP	229.82M	21.63	46.00	-24.37	3	Vertical	233	1.18	-
Mode 2	Pass	PK	64.92M	27.60	40.00	-12.40	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	150.28M	31.39	43.50	-12.11	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	295.78M	41.27	46.00	-4.73	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	336.52M	32.10	46.00	-13.90	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	555.74M	40.41	46.00	-5.59	3	Horizontal	360	1.00	-
Mode 2	Pass	PK	776.9M	35.48	46.00	-10.52	3	Horizontal	360	1.00	-

Radiated Emissions below 1GHz_Mode 1



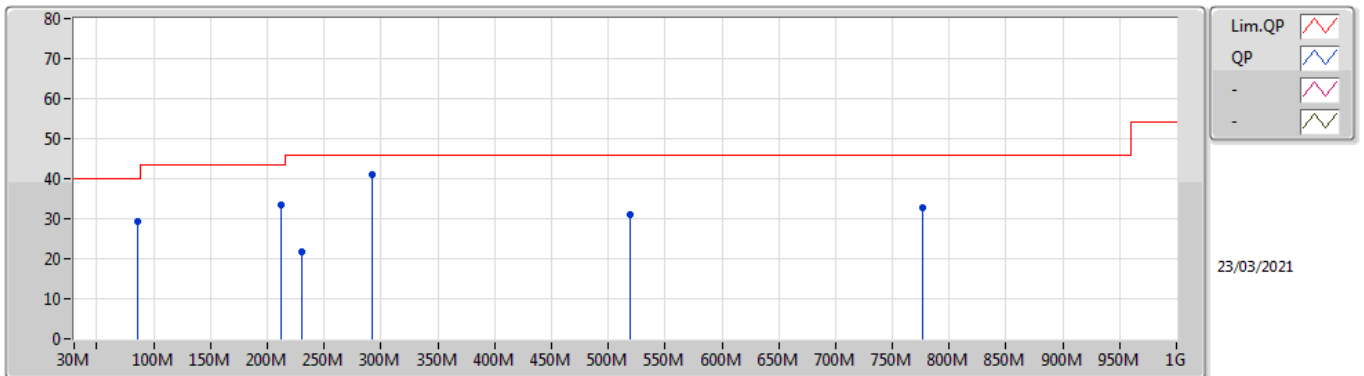
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	66.86M	31.26	40.00	-8.74	-24.95	3	Vertical	0	1.00	-	56.21	11.12	0.83	36.90
PK	192.96M	29.85	43.50	-13.65	-20.97	3	Vertical	0	1.00	-	50.82	13.98	1.31	36.26
PK	289.96M	34.93	46.00	-11.07	-16.58	3	Vertical	0	1.00	-	51.51	18.15	1.64	36.37
PK	431.58M	27.08	46.00	-18.92	-12.35	3	Vertical	0	1.00	-	39.43	22.16	2.03	36.54
PK	776.9M	31.49	46.00	-14.51	-7.24	3	Vertical	0	1.00	-	38.73	27.36	2.77	37.37
QP	245.34M	23.85	46.00	-22.15	-17.88	3	Vertical	329	3.00	-	41.73	17.05	1.48	36.41

Radiated Emissions below 1GHz_Mode 1



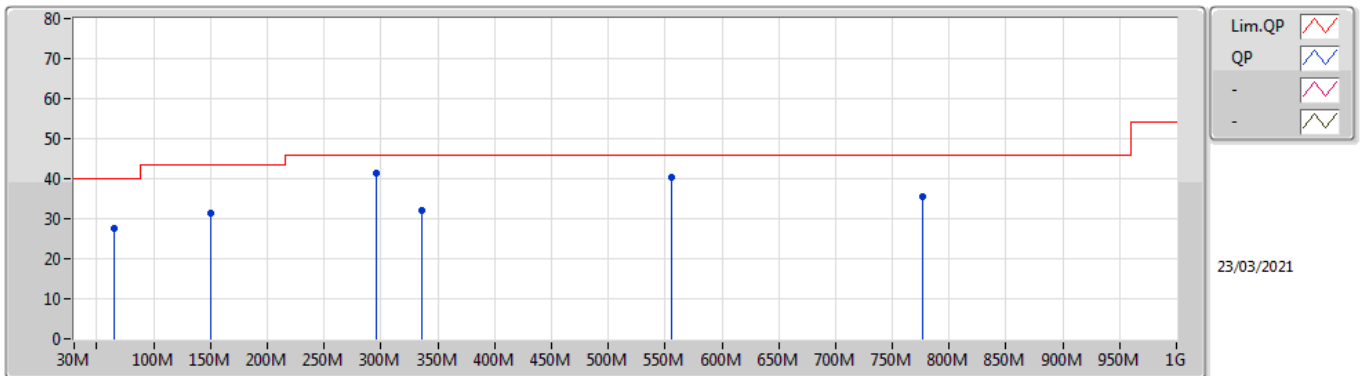
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	90.14M	25.86	43.50	-17.64	-21.82	3	Horizontal	360	1.00	-	47.68	13.87	0.94	36.63
PK	109.54M	29.91	43.50	-13.59	-19.42	3	Horizontal	360	1.00	-	49.33	16.09	1.02	36.53
PK	295.78M	36.63	46.00	-9.37	-16.44	3	Horizontal	360	1.00	-	53.07	18.26	1.66	36.36
PK	402.48M	30.37	46.00	-15.63	-13.29	3	Horizontal	360	1.00	-	43.66	21.22	1.92	36.43
PK	557.68M	35.43	46.00	-10.57	-9.46	3	Horizontal	360	1.00	-	44.89	25.25	2.39	37.10
PK	776.9M	32.84	46.00	-13.16	-7.24	3	Horizontal	360	1.00	-	40.08	27.36	2.77	37.37

Radiated Emissions below 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	86.26M	29.19	40.00	-10.81	-22.39	3	Vertical	0	1.00	-	51.58	13.36	0.92	36.67
PK	212.36M	33.39	43.50	-10.11	-20.71	3	Vertical	0	1.00	-	54.10	14.17	1.36	36.24
PK	291.9M	40.97	46.00	-5.03	-16.54	3	Vertical	0	1.00	-	57.51	18.18	1.64	36.36
PK	518.88M	31.02	46.00	-14.98	-11.47	3	Vertical	0	1.00	-	42.49	23.27	2.29	37.03
PK	776.9M	32.85	46.00	-13.15	-7.24	3	Vertical	0	1.00	-	40.09	27.36	2.77	37.37
QP	229.82M	21.63	46.00	-24.37	-19.44	3	Vertical	233	1.18	-	41.07	15.46	1.43	36.33

Radiated Emissions below 1GHz_Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	64.92M	27.60	40.00	-12.40	-25.20	3	Horizontal	360	1.00	-	52.80	10.91	0.82	36.93
PK	150.28M	31.39	43.50	-12.11	-18.73	3	Horizontal	360	1.00	-	50.12	16.40	1.20	36.33
PK	295.78M	41.27	46.00	-4.73	-16.44	3	Horizontal	360	1.00	-	57.71	18.26	1.66	36.36
PK	336.52M	32.10	46.00	-13.90	-15.50	3	Horizontal	360	1.00	-	47.60	19.22	1.74	36.46
PK	555.74M	40.41	46.00	-5.59	-9.59	3	Horizontal	360	1.00	-	50.00	25.12	2.39	37.10
PK	776.9M	35.48	46.00	-10.52	-7.24	3	Horizontal	360	1.00	-	42.72	27.36	2.77	37.37



Summary

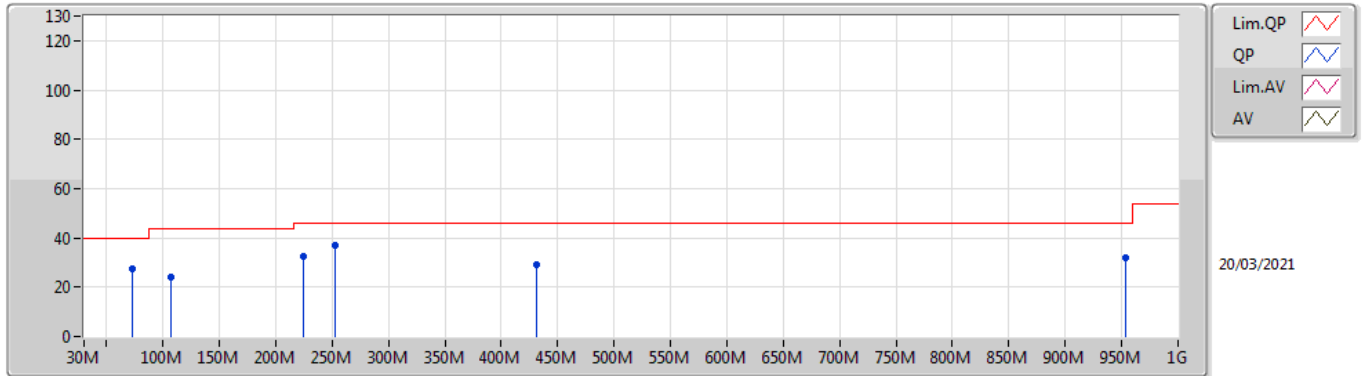
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
SRD_Nss1_1TX	Pass	PK	66.86M	32.46	40.00	-7.54	3	Horizontal	360	1.00	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
SRD_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
2435MHz	Pass	PK	72.68M	27.40	40.00	-12.60	3	Vertical	0	1.00	-
2435MHz	Pass	PK	107.6M	24.07	43.50	-19.43	3	Vertical	0	1.00	-
2435MHz	Pass	PK	224M	32.37	46.00	-13.63	3	Vertical	0	1.00	-
2435MHz	Pass	PK	253.1M	36.71	46.00	-9.29	3	Vertical	0	1.00	-
2435MHz	Pass	PK	431.58M	28.97	46.00	-17.03	3	Vertical	0	1.00	-
2435MHz	Pass	PK	953.44M	32.14	46.00	-13.86	3	Vertical	0	1.00	-
2435MHz	Pass	PK	66.86M	32.46	40.00	-7.54	3	Horizontal	360	1.00	-
2435MHz	Pass	PK	111.48M	25.55	43.50	-17.95	3	Horizontal	360	1.00	-
2435MHz	Pass	PK	243.4M	30.71	46.00	-15.29	3	Horizontal	360	1.00	-
2435MHz	Pass	PK	284.14M	35.63	46.00	-10.37	3	Horizontal	360	1.00	-
2435MHz	Pass	PK	594.54M	36.14	46.00	-9.86	3	Horizontal	360	1.00	-
2435MHz	Pass	PK	953.44M	31.91	46.00	-14.09	3	Horizontal	360	1.00	-

SRD_Nss1_1TX

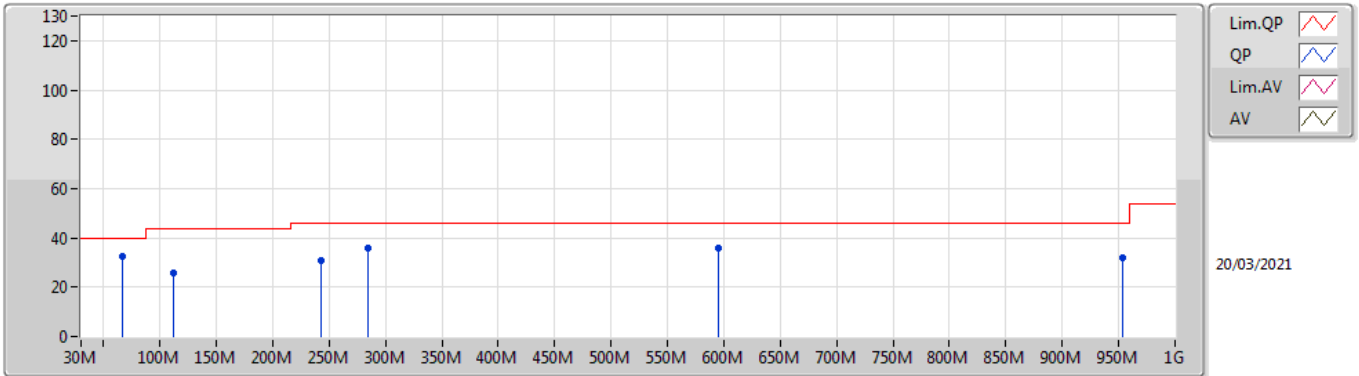
2435MHz_Battery



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	72.68M	27.40	40.00	-12.60	-24.46	3	Vertical	0	1.00	-	51.86	11.52	0.85	36.83
PK	107.6M	24.07	43.50	-19.43	-19.63	3	Vertical	0	1.00	-	43.70	15.89	1.01	36.53
PK	224M	32.37	46.00	-13.63	-20.19	3	Vertical	0	1.00	-	52.56	14.70	1.41	36.30
PK	253.1M	36.71	46.00	-9.29	-16.83	3	Vertical	0	1.00	-	53.54	18.09	1.51	36.43
PK	431.58M	28.97	46.00	-17.03	-12.35	3	Vertical	0	1.00	-	41.32	22.16	2.03	36.54
PK	953.44M	32.14	46.00	-13.86	-4.12	3	Vertical	0	1.00	-	36.26	30.12	3.10	37.34

SRD_Nss1_1TX

2435MHz_Battery



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	66.86M	32.46	40.00	-7.54	-24.95	3	Horizontal	360	1.00	-	57.41	11.12	0.83	36.90
PK	111.48M	25.55	43.50	-17.95	-19.18	3	Horizontal	360	1.00	-	44.73	16.31	1.03	36.52
PK	243.4M	30.71	46.00	-15.29	-18.10	3	Horizontal	360	1.00	-	48.81	16.82	1.48	36.40
PK	284.14M	35.63	46.00	-10.37	-16.79	3	Horizontal	360	1.00	-	52.42	17.97	1.62	36.38
PK	594.54M	36.14	46.00	-9.86	-9.93	3	Horizontal	360	1.00	-	46.07	24.76	2.46	37.15
PK	953.44M	31.91	46.00	-14.09	-4.12	3	Horizontal	360	1.00	-	36.03	30.12	3.10	37.34



Summary

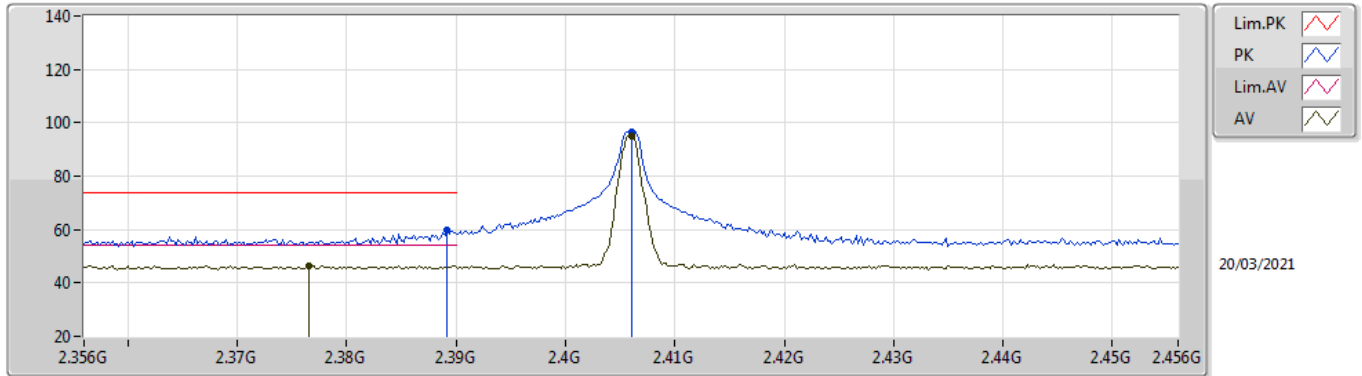
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
SRD_Nss1_1TX	Pass	AV	7.43297G	50.35	54.00	-3.65	3	Vertical	115	1.01	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
SRD_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
2406MHz	Pass	AV	2.3766G	46.47	54.00	-7.53	3	Vertical	73	1.00	-
2406MHz	Pass	AV	2.406G	95.14	Inf	-Inf	3	Vertical	73	1.00	-
2406MHz	Pass	PK	2.3892G	59.66	74.00	-14.34	3	Vertical	73	1.00	-
2406MHz	Pass	PK	2.406G	96.56	Inf	-Inf	3	Vertical	73	1.00	-
2406MHz	Pass	AV	2.3616G	46.49	54.00	-7.51	3	Horizontal	126	1.03	-
2406MHz	Pass	AV	2.406G	98.69	Inf	-Inf	3	Horizontal	126	1.03	-
2406MHz	Pass	PK	2.3894G	62.45	74.00	-11.55	3	Horizontal	126	1.03	-
2406MHz	Pass	PK	2.406G	100.08	Inf	-Inf	3	Horizontal	126	1.03	-
2406MHz	Pass	PK	4.81188G	51.02	74.00	-22.98	3	Vertical	198	1.02	-
2406MHz	Pass	AV	4.81193G	45.73	54.00	-8.27	3	Vertical	198	1.02	-
2406MHz	Pass	AV	4.81149G	46.85	54.00	-7.15	3	Horizontal	345	1.05	-
2406MHz	Pass	PK	4.81204G	52.12	74.00	-21.88	3	Horizontal	345	1.05	-
2435MHz	Pass	AV	2.381G	46.35	54.00	-7.65	3	Vertical	59	1.13	-
2435MHz	Pass	AV	2.435G	94.39	Inf	-Inf	3	Vertical	59	1.13	-
2435MHz	Pass	AV	2.487G	46.75	54.00	-7.25	3	Vertical	59	1.13	-
2435MHz	Pass	PK	2.3466G	56.50	74.00	-17.50	3	Vertical	59	1.13	-
2435MHz	Pass	PK	2.435G	95.75	Inf	-Inf	3	Vertical	59	1.13	-
2435MHz	Pass	PK	2.4878G	57.19	74.00	-16.81	3	Vertical	59	1.13	-
2435MHz	Pass	AV	2.3534G	46.62	54.00	-7.38	3	Horizontal	113	1.60	-
2435MHz	Pass	AV	2.435G	97.75	Inf	-Inf	3	Horizontal	113	1.60	-
2435MHz	Pass	AV	2.4854G	46.78	54.00	-7.22	3	Horizontal	113	1.60	-
2435MHz	Pass	PK	2.337G	56.80	74.00	-17.20	3	Horizontal	113	1.60	-
2435MHz	Pass	PK	2.435G	99.16	Inf	-Inf	3	Horizontal	113	1.60	-
2435MHz	Pass	PK	2.4978G	56.25	74.00	-17.75	3	Horizontal	113	1.60	-
2435MHz	Pass	AV	4.86993G	45.37	54.00	-8.63	3	Vertical	193	1.03	-
2435MHz	Pass	AV	7.30499G	49.44	54.00	-4.56	3	Vertical	105	1.03	-
2435MHz	Pass	PK	4.86936G	50.60	74.00	-23.40	3	Vertical	193	1.03	-
2435MHz	Pass	PK	7.30401G	55.40	74.00	-18.60	3	Vertical	105	1.03	-
2435MHz	Pass	AV	4.86987G	45.90	54.00	-8.10	3	Horizontal	346	1.00	-
2435MHz	Pass	AV	7.30509G	48.29	54.00	-5.71	3	Horizontal	16	1.00	-
2435MHz	Pass	PK	4.86992G	51.29	74.00	-22.71	3	Horizontal	346	1.00	-
2435MHz	Pass	PK	7.30486G	54.95	74.00	-19.05	3	Horizontal	16	1.00	-
2478MHz	Pass	AV	2.478G	91.28	Inf	-Inf	3	Vertical	246	1.20	-
2478MHz	Pass	AV	2.4874G	47.10	54.00	-6.90	3	Vertical	246	1.20	-
2478MHz	Pass	PK	2.478G	92.91	Inf	-Inf	3	Vertical	246	1.20	-
2478MHz	Pass	PK	2.4836G	63.12	74.00	-10.88	3	Vertical	246	1.20	-
2478MHz	Pass	AV	2.478G	98.49	Inf	-Inf	3	Horizontal	297	1.11	-
2478MHz	Pass	AV	2.4838G	47.17	54.00	-6.83	3	Horizontal	297	1.11	-
2478MHz	Pass	PK	2.4784G	100.05	Inf	-Inf	3	Horizontal	297	1.11	-
2478MHz	Pass	PK	2.4835G	69.69	74.00	-4.31	3	Horizontal	297	1.11	-
2478MHz	Pass	AV	4.95595G	44.19	54.00	-9.81	3	Vertical	139	1.03	-
2478MHz	Pass	AV	7.43297G	50.35	54.00	-3.65	3	Vertical	115	1.01	-
2478MHz	Pass	PK	4.95533G	49.69	74.00	-24.31	3	Vertical	139	1.03	-
2478MHz	Pass	PK	7.43404G	56.18	74.00	-17.82	3	Vertical	115	1.01	-
2478MHz	Pass	AV	4.95602G	47.55	54.00	-6.45	3	Horizontal	338	1.12	-
2478MHz	Pass	AV	7.43298G	48.76	54.00	-5.24	3	Horizontal	19	1.02	-
2478MHz	Pass	PK	4.95529G	52.88	74.00	-21.12	3	Horizontal	338	1.12	-
2478MHz	Pass	PK	7.43398G	54.77	74.00	-19.23	3	Horizontal	19	1.02	-

SRD_Nss1_1TX

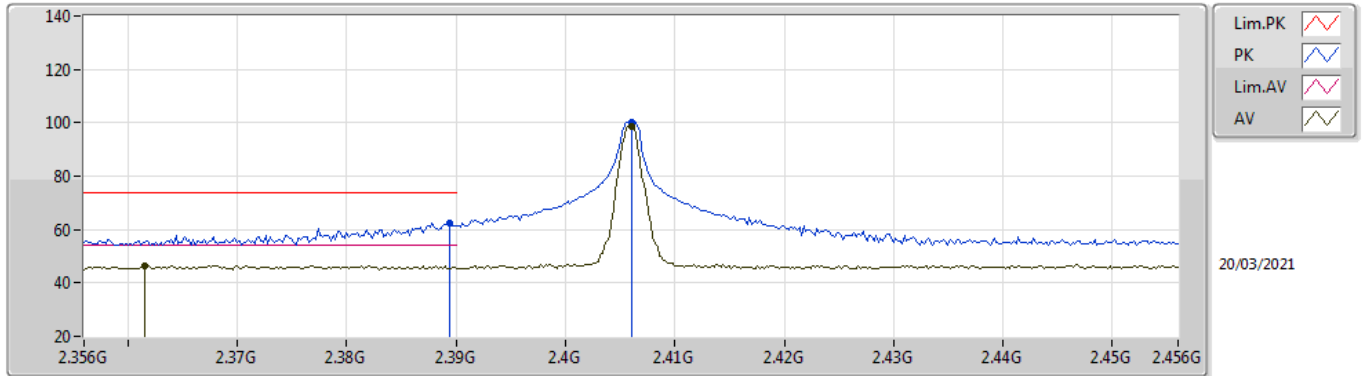
2406MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3766G	46.47	54.00	-7.53	31.55	3	Vertical	73	1.00	-	14.92	27.69	3.86	-
AV	2.406G	95.14	Inf	-Inf	31.51	3	Vertical	73	1.00	-	63.63	27.60	3.91	-
PK	2.3892G	59.66	74.00	-14.34	31.52	3	Vertical	73	1.00	-	28.14	27.64	3.88	-
PK	2.406G	96.56	Inf	-Inf	31.51	3	Vertical	73	1.00	-	65.05	27.60	3.91	-

SRD_Nss1_1TX

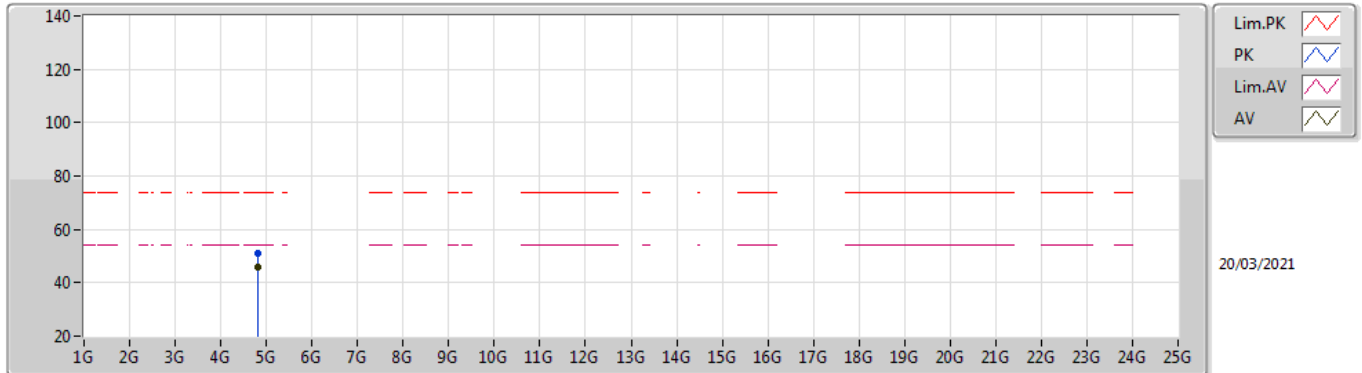
2406MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3616G	46.49	54.00	-7.51	31.59	3	Horizontal	126	1.03	-	14.90	27.75	3.84	-
AV	2.406G	98.69	Inf	-Inf	31.51	3	Horizontal	126	1.03	-	67.18	27.60	3.91	-
PK	2.3894G	62.45	74.00	-11.55	31.52	3	Horizontal	126	1.03	-	30.93	27.64	3.88	-
PK	2.406G	100.08	Inf	-Inf	31.51	3	Horizontal	126	1.03	-	68.57	27.60	3.91	-

SRD_Nss1_1TX

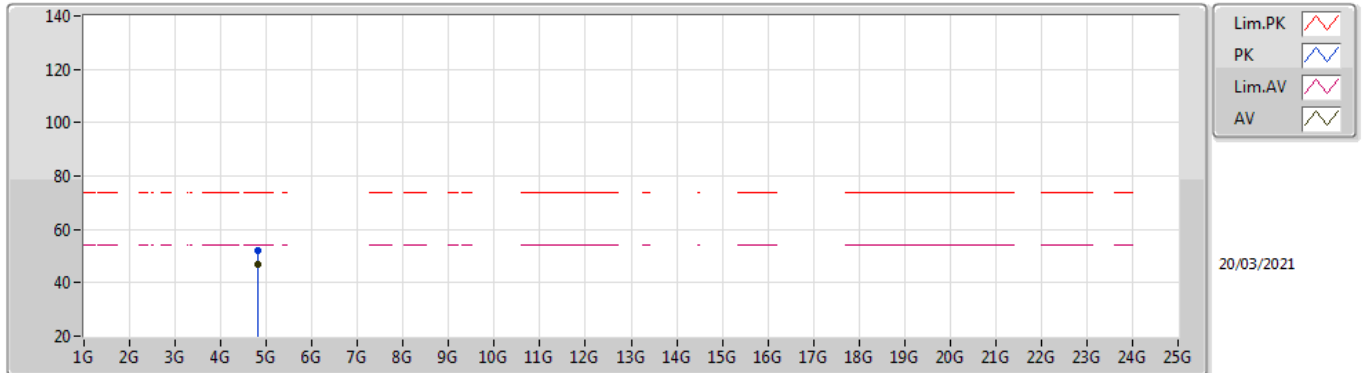
2406MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	4.81188G	51.02	74.00	-22.98	1.53	3	Vertical	198	1.02	-	49.49	31.15	5.31	34.93
AV	4.81193G	45.73	54.00	-8.27	1.53	3	Vertical	198	1.02	-	44.20	31.15	5.31	34.93

SRD_Nss1_1TX

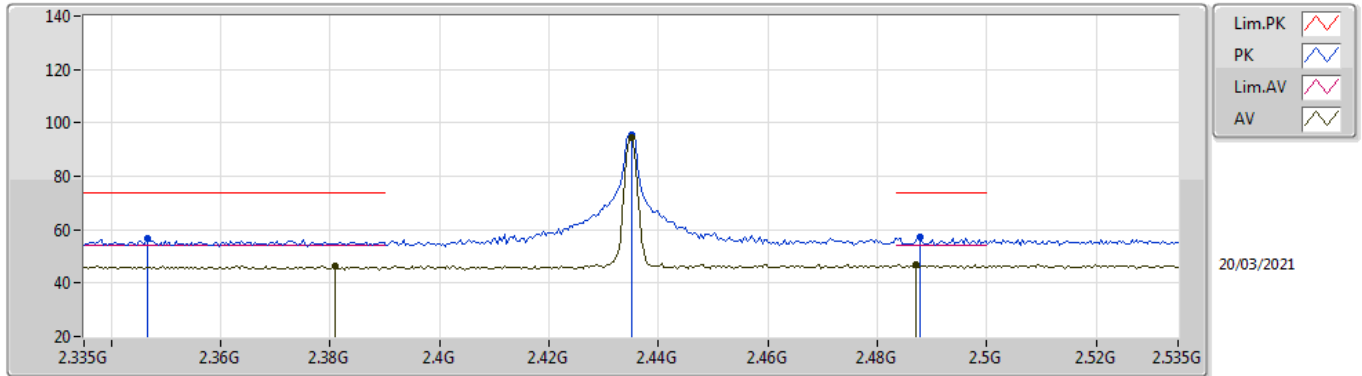
2406MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.81149G	46.85	54.00	-7.15	1.53	3	Horizontal	345	1.05	-	45.32	31.15	5.31	34.93
PK	4.81204G	52.12	74.00	-21.88	1.53	3	Horizontal	345	1.05	-	50.59	31.15	5.31	34.93

SRD_Nss1_1TX

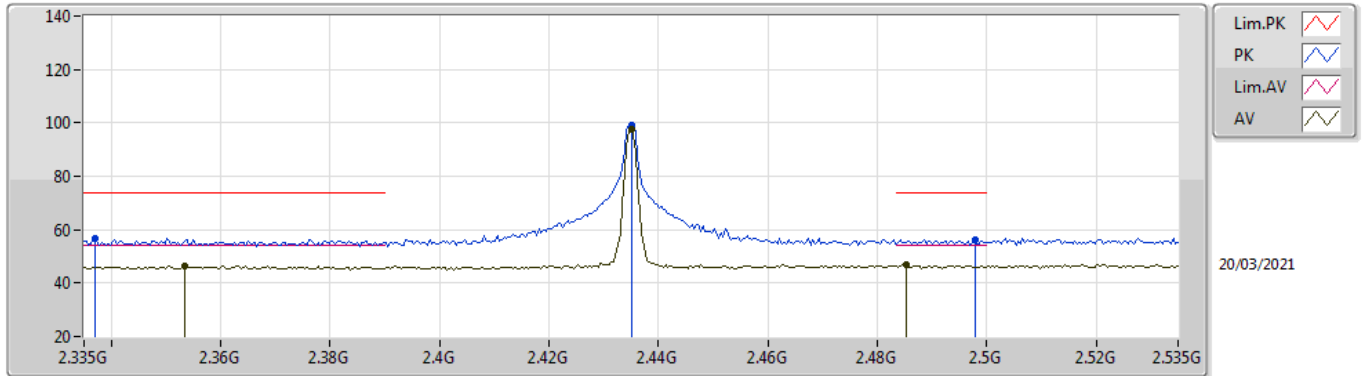
2435MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.381G	46.35	54.00	-7.65	31.55	3	Vertical	59	1.13	-	14.80	27.68	3.87	-
AV	2.435G	94.39	Inf	-Inf	31.55	3	Vertical	59	1.13	-	62.84	27.60	3.95	-
AV	2.487G	46.75	54.00	-7.25	31.63	3	Vertical	59	1.13	-	15.12	27.60	4.03	-
PK	2.3466G	56.50	74.00	-17.50	31.63	3	Vertical	59	1.13	-	24.87	27.81	3.82	-
PK	2.435G	95.75	Inf	-Inf	31.55	3	Vertical	59	1.13	-	64.20	27.60	3.95	-
PK	2.4878G	57.19	74.00	-16.81	31.63	3	Vertical	59	1.13	-	25.56	27.60	4.03	-

SRD_Nss1_1TX

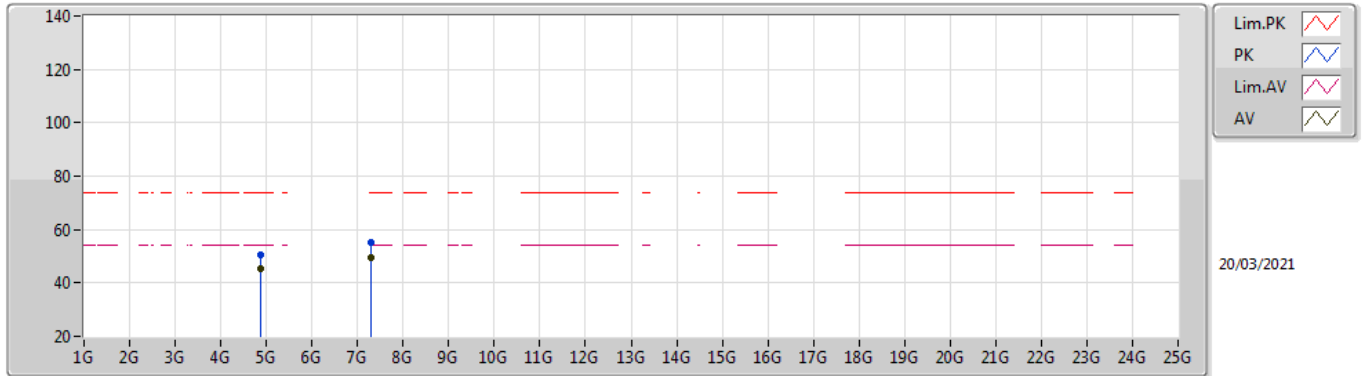
2435MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3534G	46.62	54.00	-7.38	31.62	3	Horizontal	113	1.60	-	15.00	27.79	3.83	-
AV	2.435G	97.75	Inf	-Inf	31.55	3	Horizontal	113	1.60	-	66.20	27.60	3.95	-
AV	2.4854G	46.78	54.00	-7.22	31.63	3	Horizontal	113	1.60	-	15.15	27.60	4.03	-
PK	2.337G	56.80	74.00	-17.20	31.64	3	Horizontal	113	1.60	-	25.16	27.83	3.81	-
PK	2.435G	99.16	Inf	-Inf	31.55	3	Horizontal	113	1.60	-	67.61	27.60	3.95	-
PK	2.4978G	56.25	74.00	-17.75	31.65	3	Horizontal	113	1.60	-	24.60	27.60	4.05	-

SRD_Nss1_1TX

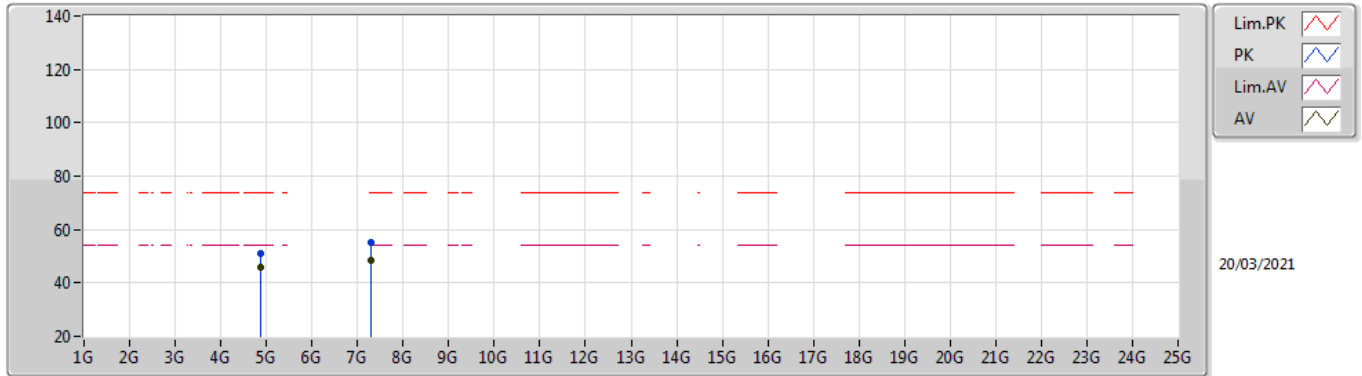
2435MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.86993G	45.37	54.00	-8.63	1.66	3	Vertical	193	1.03	-	43.71	31.26	5.33	34.93
AV	7.30499G	49.44	54.00	-4.56	8.21	3	Vertical	105	1.03	-	41.23	36.59	6.80	35.18
PK	4.86936G	50.60	74.00	-23.40	1.66	3	Vertical	193	1.03	-	48.94	31.26	5.33	34.93
PK	7.30401G	55.40	74.00	-18.60	8.21	3	Vertical	105	1.03	-	47.19	36.59	6.80	35.18

SRD_Nss1_1TX

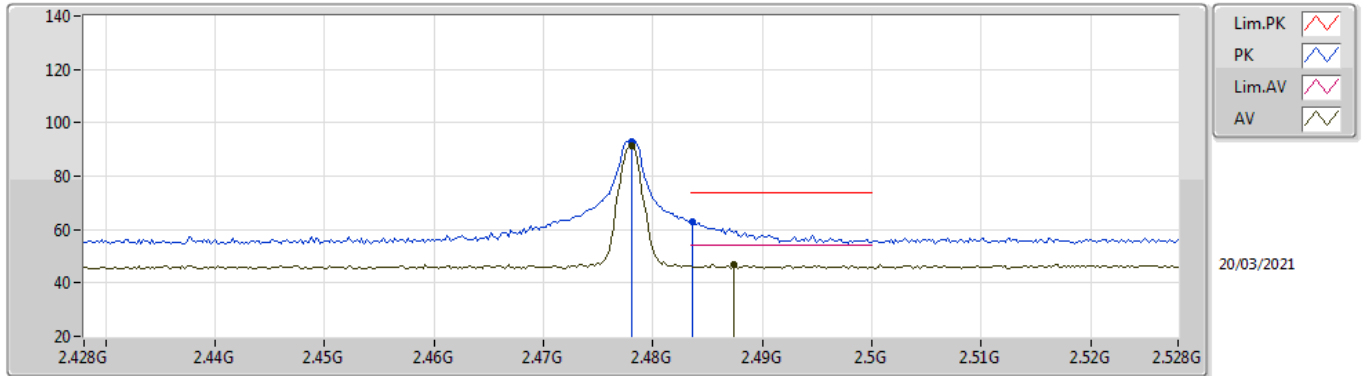
2435MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	4.86987G	45.90	54.00	-8.10	1.66	3	Horizontal	346	1.00	-	44.24	31.26	5.33	34.93
AV	7.30509G	48.29	54.00	-5.71	8.21	3	Horizontal	16	1.00	-	40.08	36.59	6.80	35.18
PK	4.86992G	51.29	74.00	-22.71	1.66	3	Horizontal	346	1.00	-	49.63	31.26	5.33	34.93
PK	7.30486G	54.95	74.00	-19.05	8.21	3	Horizontal	16	1.00	-	46.74	36.59	6.80	35.18

SRD_Nss1_1TX

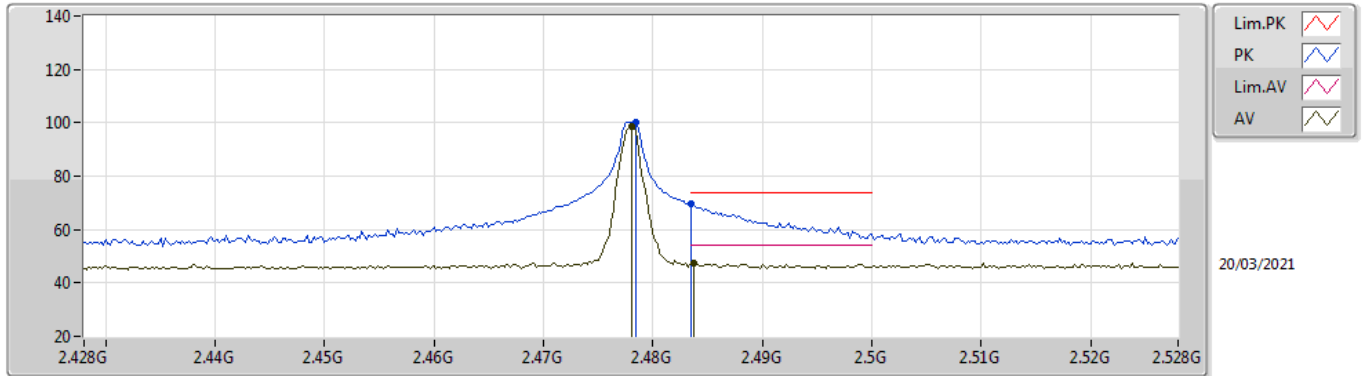
2478MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.478G	91.28	Inf	-Inf	31.62	3	Vertical	246	1.20	-	59.66	27.60	4.02	-
AV	2.4874G	47.10	54.00	-6.90	31.63	3	Vertical	246	1.20	-	15.47	27.60	4.03	-
PK	2.478G	92.91	Inf	-Inf	31.62	3	Vertical	246	1.20	-	61.29	27.60	4.02	-
PK	2.4836G	63.12	74.00	-10.88	31.63	3	Vertical	246	1.20	-	31.49	27.60	4.03	-

SRD_Nss1_1TX

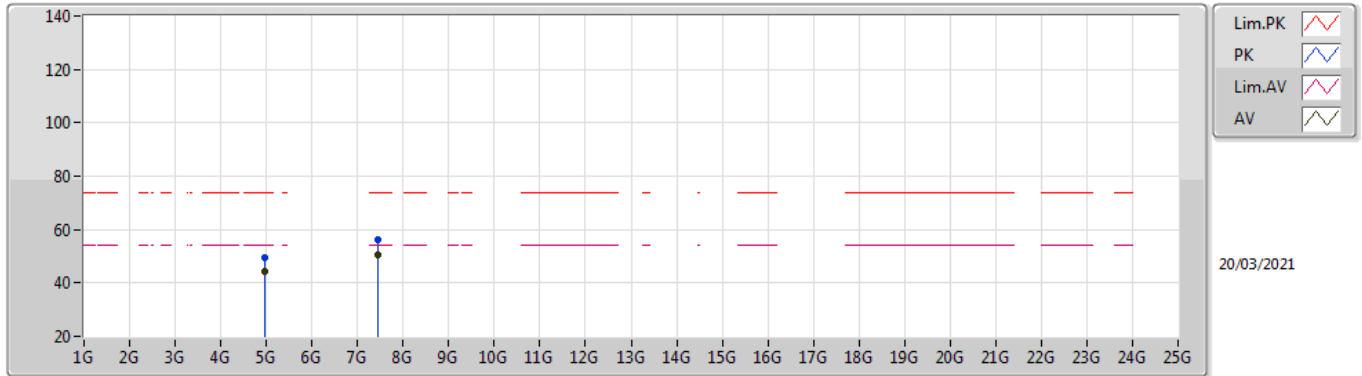
2478MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.478G	98.49	Inf	-Inf	31.62	3	Horizontal	297	1.11	-	66.87	27.60	4.02	-
AV	2.4838G	47.17	54.00	-6.83	31.63	3	Horizontal	297	1.11	-	15.54	27.60	4.03	-
PK	2.4784G	100.05	Inf	-Inf	31.62	3	Horizontal	297	1.11	-	68.43	27.60	4.02	-
PK	2.4835G	69.69	74.00	-4.31	31.63	3	Horizontal	297	1.11	-	38.06	27.60	4.03	-

SRD_Nss1_1TX

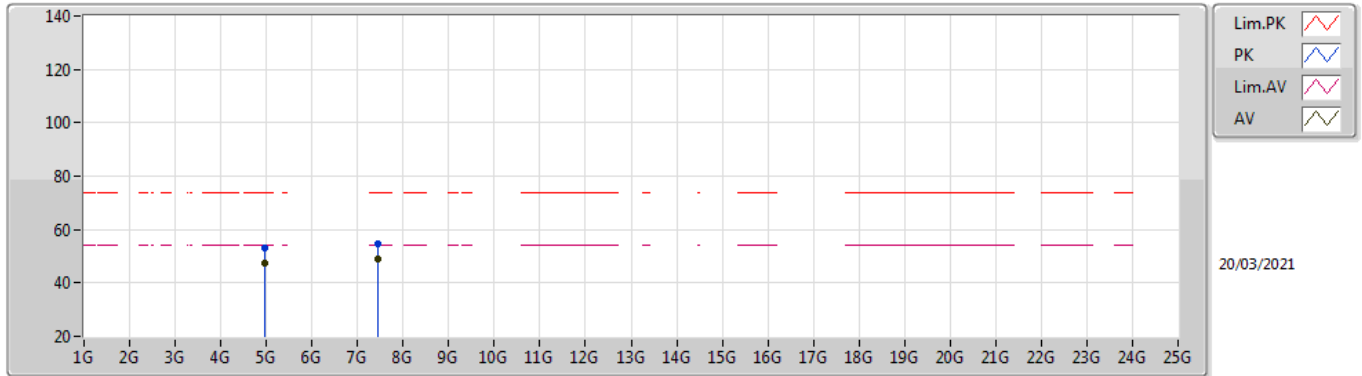
2478MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95595G	44.19	54.00	-9.81	1.85	3	Vertical	139	1.03	-	42.34	31.41	5.38	34.94
AV	7.43297G	50.35	54.00	-3.65	8.18	3	Vertical	115	1.01	-	42.17	36.53	6.82	35.17
PK	4.95533G	49.69	74.00	-24.31	1.85	3	Vertical	139	1.03	-	47.84	31.41	5.38	34.94
PK	7.43404G	56.18	74.00	-17.82	8.19	3	Vertical	115	1.01	-	47.99	36.54	6.82	35.17

SRD_Nss1_1TX

2478MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.95602G	47.55	54.00	-6.45	1.85	3	Horizontal	338	1.12	-	45.70	31.41	5.38	34.94
AV	7.43298G	48.76	54.00	-5.24	8.18	3	Horizontal	19	1.02	-	40.58	36.53	6.82	35.17
PK	4.95529G	52.88	74.00	-21.12	1.85	3	Horizontal	338	1.12	-	51.03	31.41	5.38	34.94
PK	7.43398G	54.77	74.00	-19.23	8.19	3	Horizontal	19	1.02	-	46.58	36.54	6.82	35.17