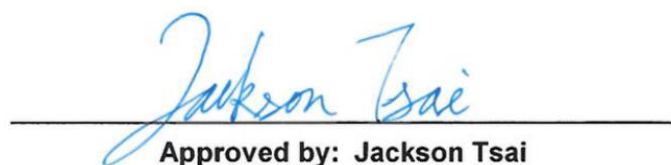


FCC Test Report

FCC ID : QXO-AP5010U
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5010U
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville
North Carolina United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville
North Carolina United States 27560
Standard : 47 CFR FCC Part 15.517

The product was received on Dec. 10, 2021, and testing was started from Mar. 18, 2022 and completed on Aug. 15, 2022. 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: 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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PHOTOGRAPHS OF EUT V01	

History of this test report

[illegible]

Summary of Test Result

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

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Michelle Tsai

1 General Description

1.1 Information

1.1.1 RF General Information

RF General Information				
Frequency Range (MHz)	Mode	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})
3100-10600	UWB	6489.6	5 [1]	1
	UWB	7987.2	9 [1]	1
Note 1: UWB uses BPSK modulation.				

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	WNC	N/A	PIFA	I-PEX

Ant.	Port	Gain (dBi)	
		6489.6 MHz	7987.2 MHz
1	1	4.7	4.7

For UWB function:

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

1.1.3 Type of EUT

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

1.1.4 Test Signal Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
Ultra Wide Band	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

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

1.1.5 Operational Restriction

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

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Daniel Lin	22.1~22.9°C / 52~55%	22/Mar/2022
RF Conducted	TH06-HY	Johnny Yu	20.1~25.6°C / 54~62%	21/Mar/2022
Radiated	03CH02-HY	Daniel Lin	20.4~24.7°C / 51~67%	18/Mar/2022~19/Mar/2022
Radiated	03CH02-HY	Daniel Lin	20.3~23.5°C / 48~64%	01/Aug/2022~15/Aug/2022
☐ 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.				

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	120V

2.2 The Worst Case Configuration

Worst Modulation Used for Conformance Testing		
Mode	Transmit Chains (N _{TX})	Test Channel Frequencies (MHz)
UWB	1	6489.6,7987.2

2.3 The Worse Case Power Setting Parameter

Test Software Version	Tera Term Version 4.76
-----------------------	------------------------

Mode	PowerSetting
Ultra Wide Band_Nss1_1TX	-
6489.6MHz	53535353
7987.2MHz	57575757

2.4 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	CTX
1	Adapter Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	Conducted Emissions, UWB Bandwidth
Test Condition	Conducted measurement at transmit chains

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

2.5 Accessories

Accessories				
Bracket	Brand Name	-	Model Name	-

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

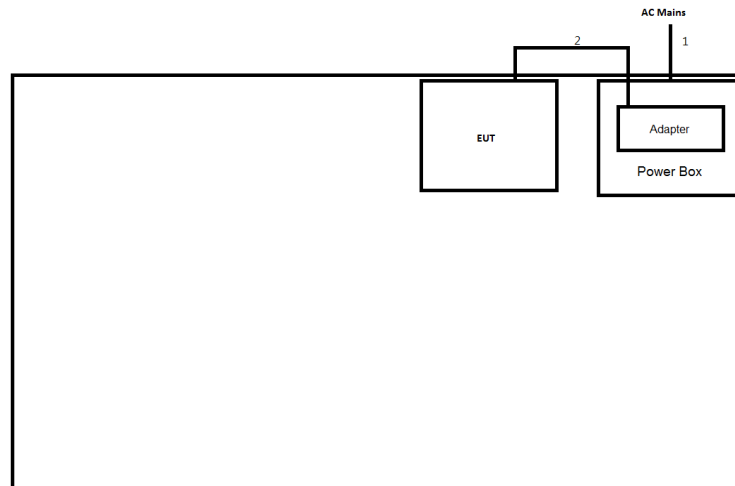
2.6 Support Equipment

Support Equipment – AC Conduction and Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Adapter	Powertron Electronics	PA1045-120HIB300	-	Provided by Customer

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	Adapter	Powertron Electronics	PA1045-120HIB300	-	Provided by Customer

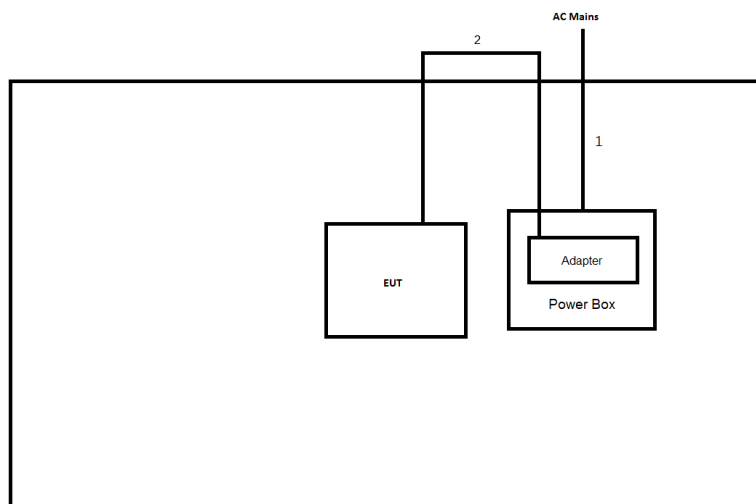
2.7 Test Setup Diagram

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	1.5	-

Test Setup Diagram - Radiated Test



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

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

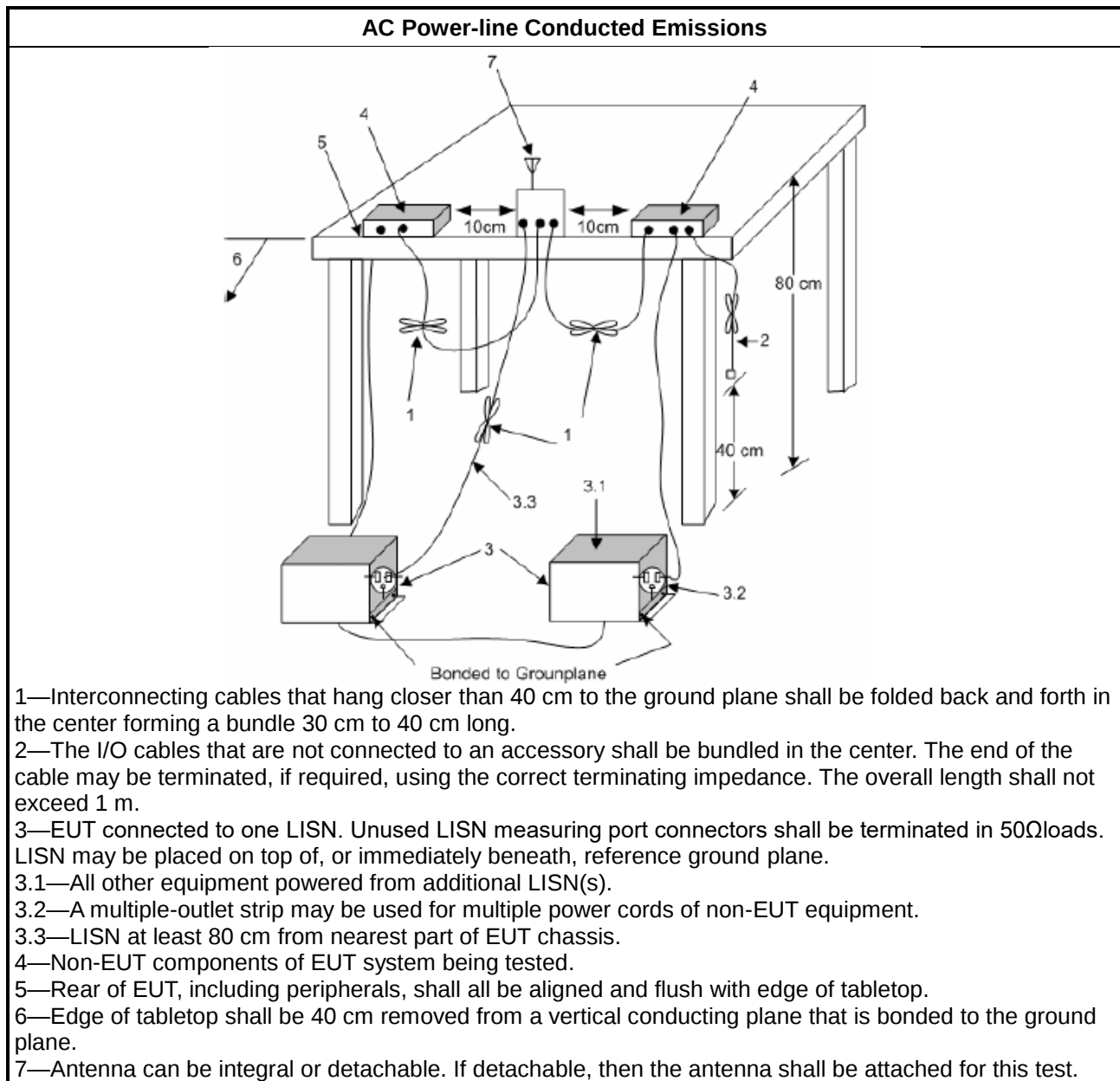
Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

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 UWB bandwidth

3.2.1 UWB bandwidth Limit

UWB bandwidth Limit	
☒	UWB bandwidth ≥ 500 MHz or Fractional bandwidth ≥ 0.2 ; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$

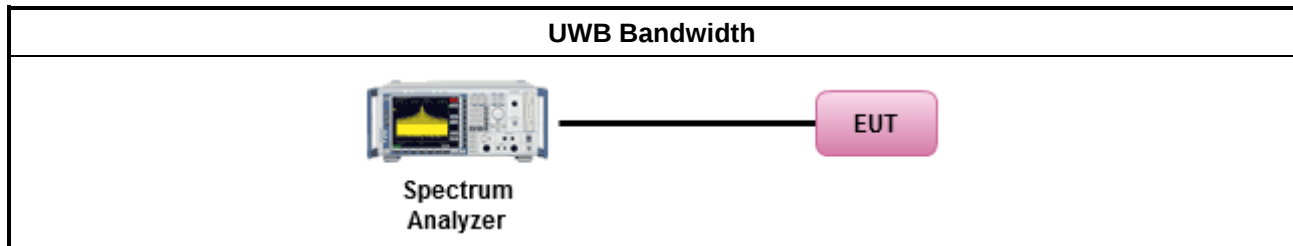
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of UWB Bandwidth

Refer as Appendix B

3.3 Peak Emissions within a 50 MHz Bandwidth

3.3.1 Peak Emissions within a 50 MHz Bandwidth Limit

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

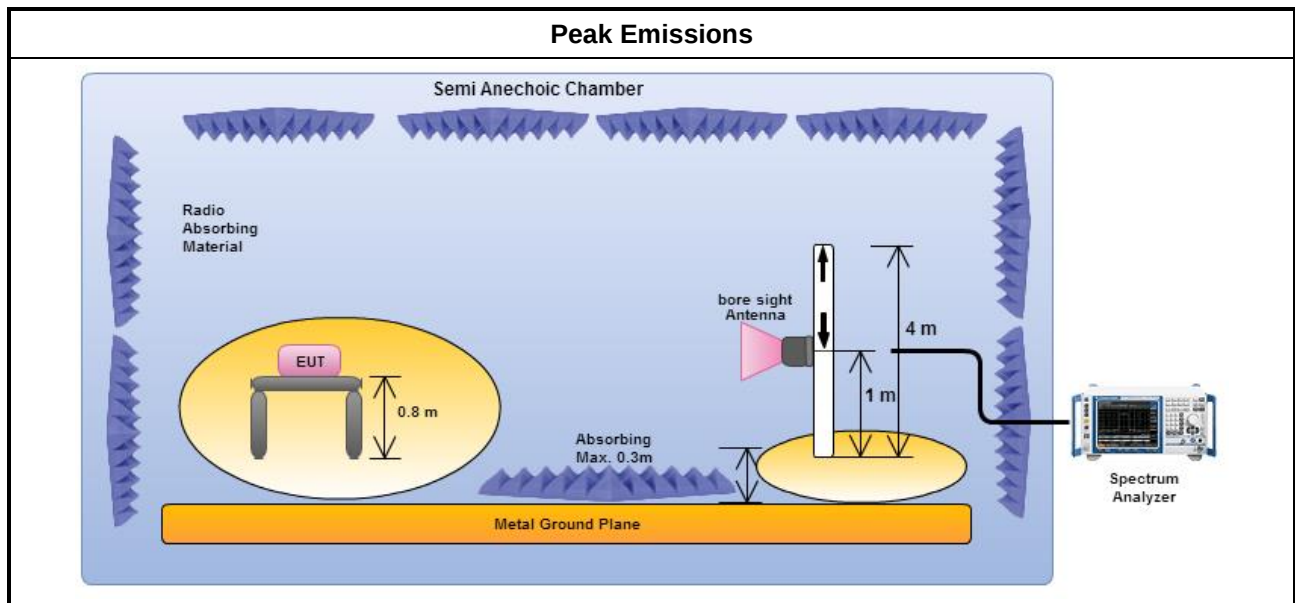
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
☒ Peak Emissions within a 50 MHz Bandwidth
☒ Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
☒ Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m.
☒ Refer as ANSI C63.10, clause 10.3.4 for peak detector procedure testing.
☒ Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power. $EIRP_{50\text{MHz}} = EIRP_{20\text{MHz}} - 20 \log(20\text{MHz}/50\text{MHz})$

3.3.4 Test Setup



3.3.5 Test Result of Peak Emissions within a 50 MHz Bandwidth

Refer as Appendix C

3.4 Radiated Emissions

3.4.1 Radiated Emissions Limit

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

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

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

3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

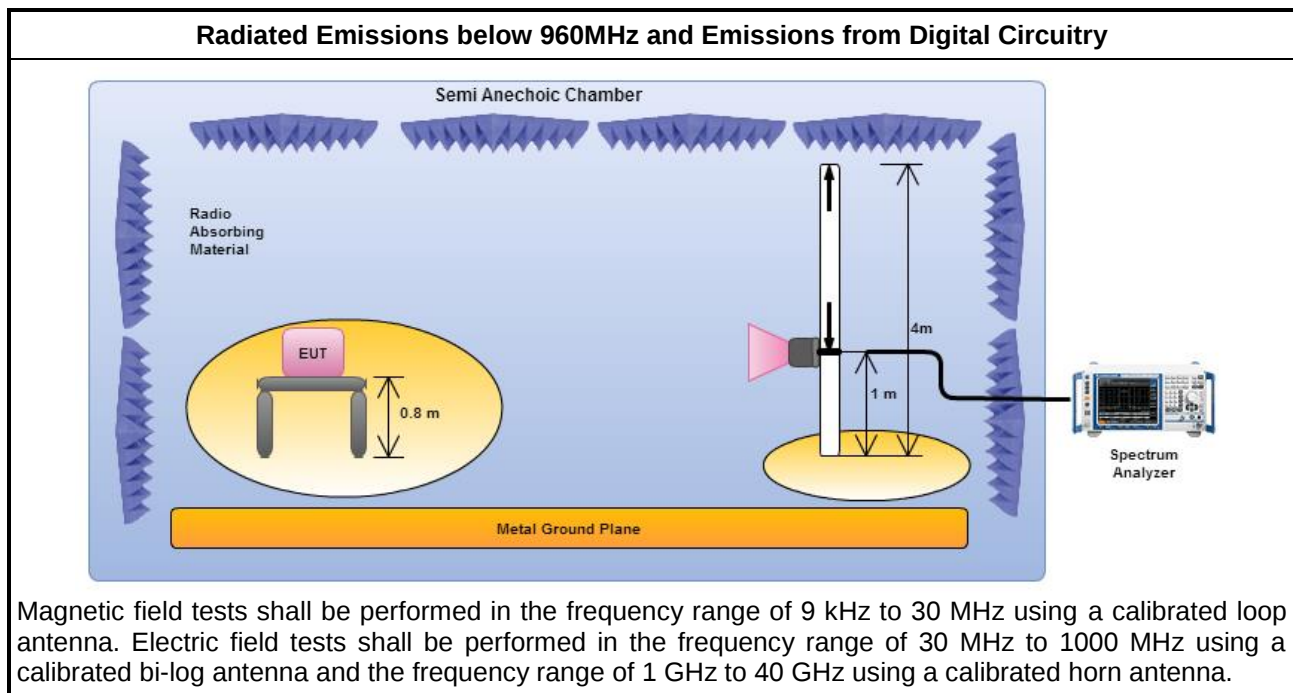
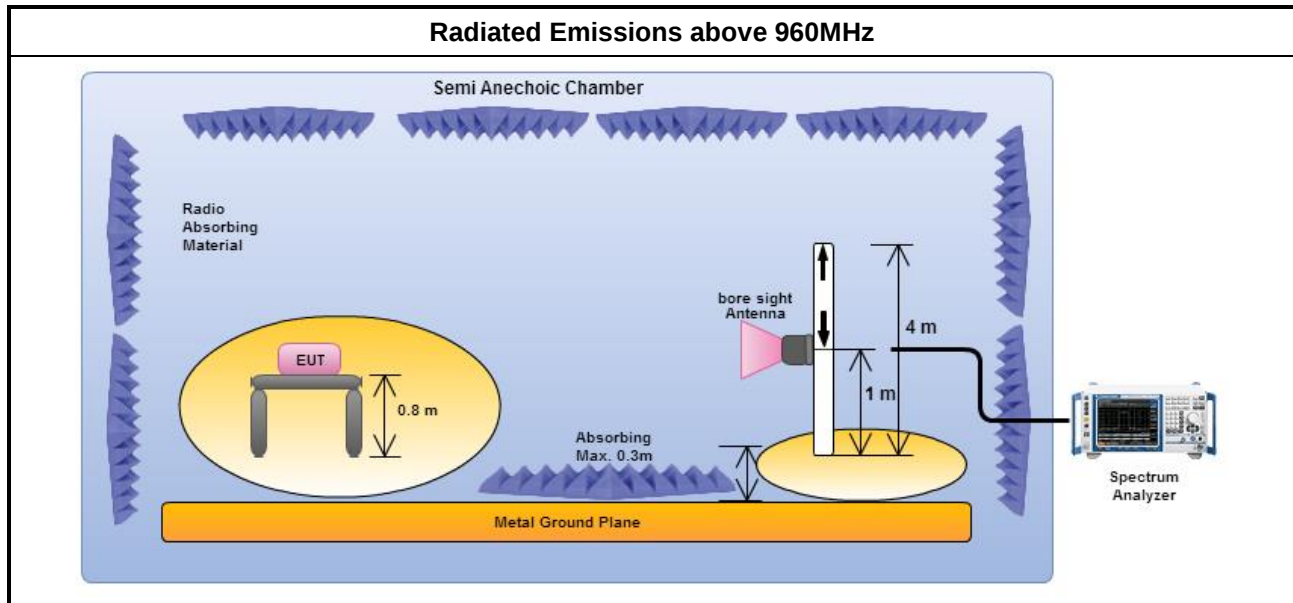
Test Method for Radiated Emissions below 960MHz and Emissions from Digital Circuitry	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW) – Duty cycle $\geq$ 100%.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from $20 \log(\text{dwell time}/100 \text{ ms})$. Average emission = peak emission + $20 \log(\text{duty cycle})$.
☒	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
☒	For radiated measurement.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.

3.4.4 Measurement Results Calculation

The measured Level is calculated using:

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

3.4.5 Test Setup



3.4.6 Radiated Emissions (Below 30MHz)

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

3.4.7 Test Result of Radiated Emissions

Refer as Appendix D

4 Test Equipment and Calibration Data

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz~1GHz 3m	02/Aug/2021	01/Aug/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	01/Aug/2021	31/Jul/2022
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	30/Mar/2021	29/Mar/2022
Signal Analyzer	R&S	FSP40	100593	9kHz~40GHz	08/Apr/2022	07/Apr/2023
Amplifier	Agilent	8447D	2944A11149	100kHz~1.3GHz	29/Jun/2021	28/Jun/2022
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	03/Nov/2021	02/Nov/2022
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz~1GHz	04/Sep/2021	03/Sep/2022
Double Ridged Guide Horn Antenna	SCHWARZBEC	BBHA 9120 D	BBHA 9120 D 01543	1GHz~18GHz	04/Jun/2021	03/Jun/2022
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	14/Sep/2021	13/Sep/2022
Microwave Preamplifier	EMC INSTRUMENT	EMC051845BE	980241	1GHz~18GHz	17/May/2021	16/May/2022
Microwave Preamplifier	EMC INSTRUMENT	EMC051845BE	980241	1GHz~18GHz	13/May/2022	12/May/2023
RF Cable	MVE	400LL	MVE-1-0802	9kHz~30MHz	05/May/2021	04/May/2022
RF Cable	MVE	400LL	MVE-1-0802	30MHz~1GHz	05/May/2021	04/May/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	06/Apr/2021	05/Apr/2022
RF Cable-R03m	HUBER+SUHNER	SUCOFLEX104	805193/4+805192 /4	1GHz~40GHz	01/Apr/2022	31/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	15GHz~40GHz	12/May/2021	11/May/2022
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Loop Antenna	Teseq	HLA 6120	24155	9kHz~30MHz	14/Apr/2021	13/Apr/2022
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	19/Apr/2021	18/Apr/2022
SENSE-UWB	Sporton	V5.10.6D	N/A	N/A	N/A	N/A

**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	21/May/2021	20/May/2022
Two-Line V-Network	R&S	ENV 216	100003	9kHz ~ 30MHz	18/Feb/2022	17/Feb/2023
RF Cable 5m	TITAN	TITAN	CO04-cable-01	9 kHz~200MHz	01/Mar/2022	28/Feb/2023
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9kHz ~ 30MHz	26/Oct/2021	25/Oct/2022
Software	Sporton	SENSE-EMI	V5.10.7	-	NCR	NCR

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	101029	10Hz~40GHz	20/Oct/2021	19/Oct/2022
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2021	20/Oct/2022
SENSE-UWB	Sporton	V5.10.6D	N/A	N/A	N/A	N/A



Conducted Emissions at Powerline

Appendix A

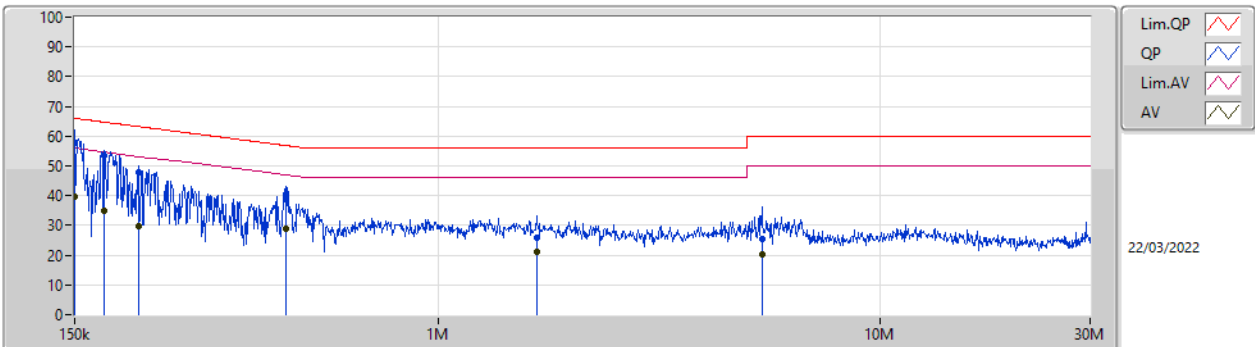
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	150k	57.62	66.00	-8.38	Line

Result

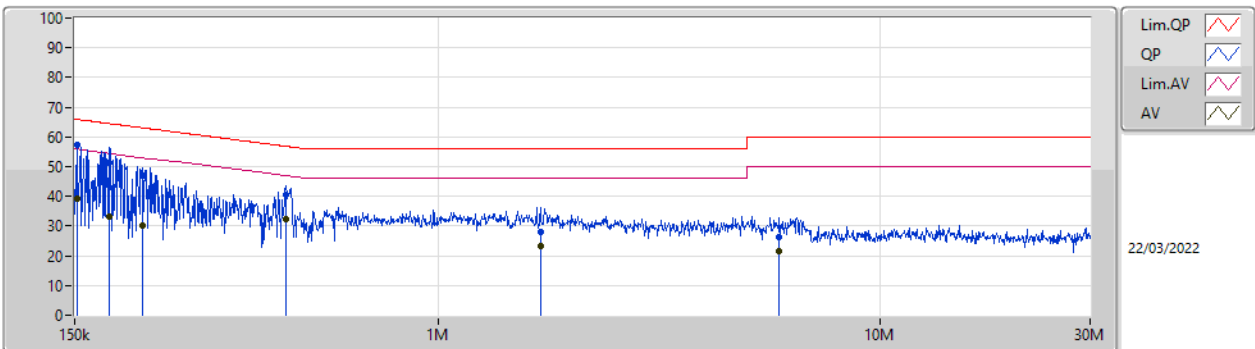
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition	Comments
Mode 1	Pass	QP	150k	57.62	66.00	-8.38	Line	-
Mode 1	Pass	AV	150k	39.77	56.00	-16.23	Line	-
Mode 1	Pass	QP	175.269k	53.27	64.70	-11.43	Line	-
Mode 1	Pass	AV	175.269k	34.98	54.70	-19.72	Line	-
Mode 1	Pass	QP	208.925k	47.80	63.25	-15.45	Line	-
Mode 1	Pass	AV	208.925k	29.91	53.25	-23.34	Line	-
Mode 1	Pass	QP	451.436k	38.72	56.84	-18.12	Line	-
Mode 1	Pass	AV	451.436k	28.77	46.84	-18.07	Line	-
Mode 1	Pass	QP	1.672M	25.71	56.00	-30.29	Line	-
Mode 1	Pass	AV	1.672M	20.96	46.00	-25.04	Line	-
Mode 1	Pass	QP	5.407M	25.48	60.00	-34.52	Line	-
Mode 1	Pass	AV	5.407M	20.20	50.00	-29.80	Line	-
Mode 1	Pass	QP	151.807k	57.18	65.90	-8.72	Neutral	-
Mode 1	Pass	AV	151.807k	39.14	55.90	-16.76	Neutral	-
Mode 1	Pass	QP	180.236k	51.50	64.47	-12.97	Neutral	-
Mode 1	Pass	AV	180.236k	33.18	54.47	-21.29	Neutral	-
Mode 1	Pass	QP	213.989k	46.95	63.06	-16.11	Neutral	-
Mode 1	Pass	AV	213.989k	30.20	53.06	-22.86	Neutral	-
Mode 1	Pass	QP	451.436k	40.38	56.84	-16.46	Neutral	-
Mode 1	Pass	AV	451.436k	32.33	46.84	-14.51	Neutral	-
Mode 1	Pass	QP	1.706M	27.87	56.00	-28.13	Neutral	-
Mode 1	Pass	AV	1.706M	23.31	46.00	-22.69	Neutral	-
Mode 1	Pass	QP	5.927M	26.22	60.00	-33.78	Neutral	-
Mode 1	Pass	AV	5.927M	21.37	50.00	-28.63	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	150k	57.62	66.00	-8.38	19.63	Line	-	37.99	9.69	0.03	9.91				
AV	150k	39.77	56.00	-16.23	19.63	Line	-	20.14	9.69	0.03	9.91				
QP	175.269k	53.27	64.70	-11.43	19.63	Line	-	33.64	9.69	0.03	9.91				
AV	175.269k	34.98	54.70	-19.72	19.63	Line	-	15.35	9.69	0.03	9.91				
QP	208.925k	47.80	63.25	-15.45	19.63	Line	-	28.17	9.69	0.03	9.91				
AV	208.925k	29.91	53.25	-23.34	19.63	Line	-	10.28	9.69	0.03	9.91				
QP	451.436k	38.72	56.84	-18.12	19.63	Line	-	19.09	9.68	0.04	9.91				
AV	451.436k	28.77	46.84	-18.07	19.63	Line	-	9.14	9.68	0.04	9.91				
QP	1.672M	25.71	56.00	-30.29	19.68	Line	-	6.03	9.69	0.07	9.92				
AV	1.672M	20.96	46.00	-25.04	19.68	Line	-	1.28	9.69	0.07	9.92				
QP	5.407M	25.48	60.00	-34.52	19.81	Line	-	5.67	9.74	0.15	9.92				
AV	5.407M	20.20	50.00	-29.80	19.81	Line	-	0.39	9.74	0.15	9.92				

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	151.807k	57.18	65.90	-8.72	19.67	Neutral	-	37.51	9.73	0.03	9.91				
AV	151.807k	39.14	55.90	-16.76	19.67	Neutral	-	19.47	9.73	0.03	9.91				
QP	180.236k	51.50	64.47	-12.97	19.66	Neutral	-	31.84	9.72	0.03	9.91				
AV	180.236k	33.18	54.47	-21.29	19.66	Neutral	-	13.52	9.72	0.03	9.91				
QP	213.989k	46.95	63.06	-16.11	19.66	Neutral	-	27.29	9.72	0.03	9.91				
AV	213.989k	30.20	53.06	-22.86	19.66	Neutral	-	10.54	9.72	0.03	9.91				
QP	451.436k	40.38	56.84	-16.46	19.67	Neutral	-	20.71	9.72	0.04	9.91				
AV	451.436k	32.33	46.84	-14.51	19.67	Neutral	-	12.66	9.72	0.04	9.91				
QP	1.706M	27.87	56.00	-28.13	19.73	Neutral	-	8.14	9.74	0.07	9.92				
AV	1.706M	23.31	46.00	-22.69	19.73	Neutral	-	3.58	9.74	0.07	9.92				
QP	5.927M	26.22	60.00	-33.78	19.89	Neutral	-	6.33	9.82	0.15	9.92				
AV	5.927M	21.37	50.00	-28.63	19.89	Neutral	-	1.48	9.82	0.15	9.92				

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
3.1-10.6GHz	-	-	-	-	-
Ultra Wide Band_Nss1_1TX	544.752M	619.322M	619MD1D	514.8M	618.699M

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

Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
Ultra Wide Band_Nss1_1TX	-	-	-	-
6489.6MHz_TnomVnom	Pass	500M	544.752M	618.699M
7987.2MHz_TnomVnom	Pass	500M	514.8M	619.322M

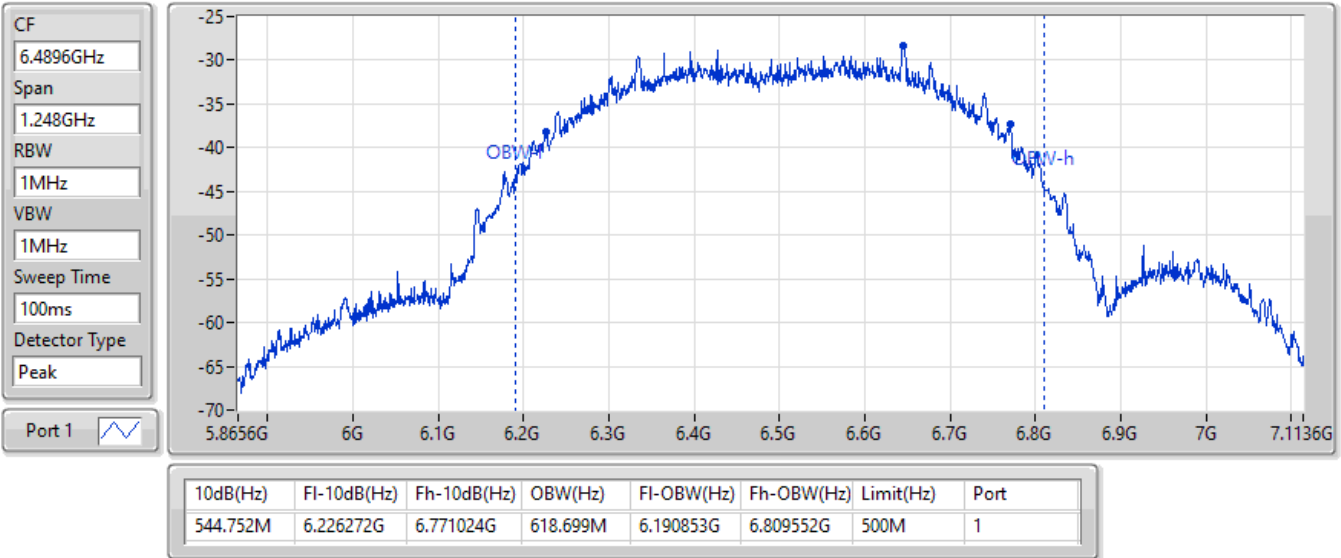
Port X-N dB = Port X 10dB down bandwidth**Port X-OBW** = Port X 99% occupied bandwidth

Ultra Wide Band_Nss1_1TX

OBW

6489.6MHz

21/03/2022

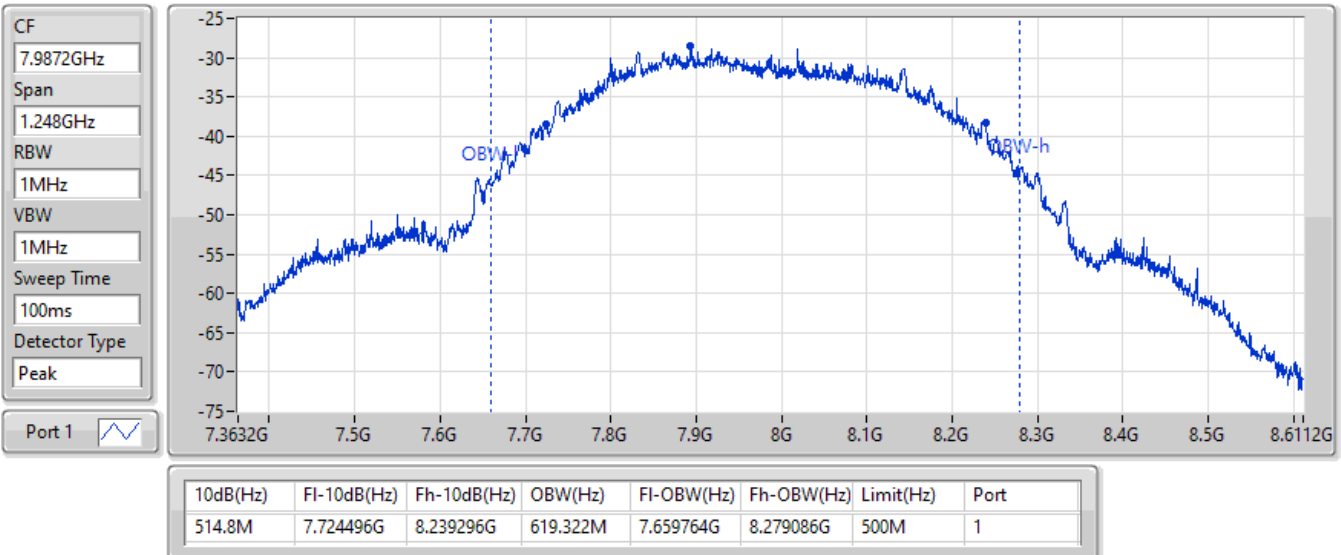


Ultra Wide Band_Nss1_1TX

OBW

7987.2MHz

21/03/2022





Summary

Mode	EIRP PD (dBm/50MHz)
3.1-10.6GHz	-
Ultra Wide Band_Nss1_1TX	-0.16

**Result**

Mode	Result	Raw (dBuV/m)	Factor (dB)	Correction Factor (dB)	EIRP PD (dBm/50MHz)	EIRP PD Limit (dBm/50MHz)
Ultra Wide Band_Nss1_1TX	-	-		-	-	-
6489.6MHz	Pass	74.72	12.16	7.96	-0.36	0
7987.2MHz	Pass	73.2	13.88	7.96	-0.16	0

EIRP PD= Raw + Factor + Correction factor
Factor = Antenna Factor + Cable loss –Preamp
Correction Factor = $20 \cdot \log(50/20) = 7.96$



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
7.25-1025GHz	-	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1_1TX	Pass	PK	33.88M	35.73	40.00	-4.27	3	Horizontal	360	1.00	-

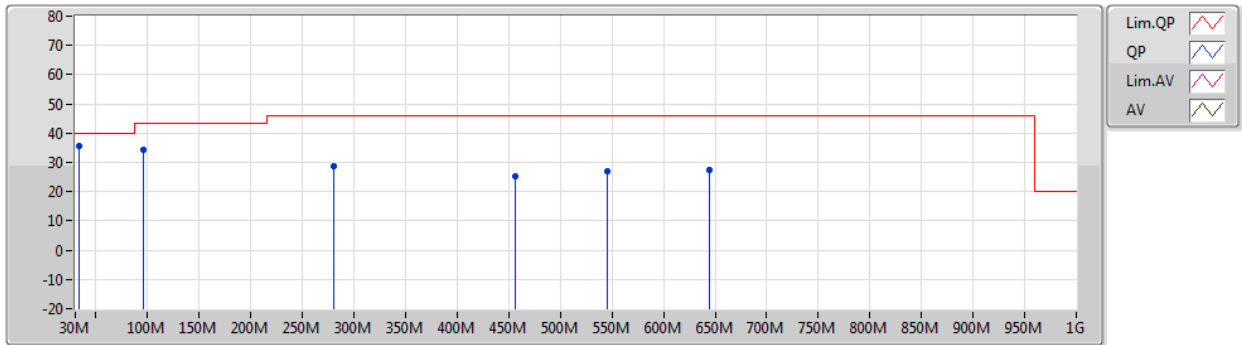
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Ultra Wide Band_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
6489.6MHz	Pass	PK	95.96M	34.15	43.50	-9.35	3	Vertical	0	1.00	-
6489.6MHz	Pass	PK	280.26M	28.57	46.00	-17.43	3	Vertical	0	1.00	-
6489.6MHz	Pass	PK	456.8M	25.22	46.00	-20.78	3	Vertical	0	1.00	-
6489.6MHz	Pass	PK	546.04M	26.94	46.00	-19.06	3	Vertical	0	1.00	-
6489.6MHz	Pass	PK	644.98M	27.23	46.00	-18.77	3	Vertical	0	1.00	-
6489.6MHz	Pass	QP	33.88M	35.45	40.00	-4.55	3	Vertical	50	1.00	-
6489.6MHz	Pass	PK	33.88M	35.73	40.00	-4.27	3	Horizontal	360	1.00	-
6489.6MHz	Pass	PK	92.08M	32.66	43.50	-10.84	3	Horizontal	360	1.00	-
6489.6MHz	Pass	PK	270.56M	29.45	46.00	-16.55	3	Horizontal	360	1.00	-
6489.6MHz	Pass	PK	371.44M	24.58	46.00	-21.42	3	Horizontal	360	1.00	-
6489.6MHz	Pass	PK	458.74M	26.11	46.00	-19.89	3	Horizontal	360	1.00	-
6489.6MHz	Pass	PK	722.58M	30.17	46.00	-15.83	3	Horizontal	360	1.00	-
7987.2MHz	Pass	PK	33.88M	34.17	43.50	-9.33	3	Vertical	0	1.00	-
7987.2MHz	Pass	PK	278.32M	27.05	46.00	-18.95	3	Vertical	0	1.00	-
7987.2MHz	Pass	PK	480.08M	24.76	46.00	-21.24	3	Vertical	0	1.00	-
7987.2MHz	Pass	PK	571.26M	26.45	46.00	-19.55	3	Vertical	0	1.00	-
7987.2MHz	Pass	PK	674.08M	26.88	46.00	-19.12	3	Vertical	0	1.00	-
7987.2MHz	Pass	QP	33.88M	35.24	40.00	-4.76	3	Vertical	55	1.00	-
7987.2MHz	Pass	PK	33.88M	32.98	40.00	-7.02	3	Horizontal	360	3.00	-
7987.2MHz	Pass	PK	90.14M	32.70	43.50	-10.80	3	Horizontal	360	3.00	-
7987.2MHz	Pass	PK	276.38M	29.54	46.00	-16.46	3	Horizontal	360	3.00	-
7987.2MHz	Pass	PK	412.18M	24.26	46.00	-21.74	3	Horizontal	360	3.00	-
7987.2MHz	Pass	PK	561.56M	26.23	46.00	-19.77	3	Horizontal	360	3.00	-
7987.2MHz	Pass	PK	794.36M	28.27	46.00	-17.73	3	Horizontal	360	3.00	-

Ultra Wide Band_Nss1_1TX

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6489.6MHz_Adapter

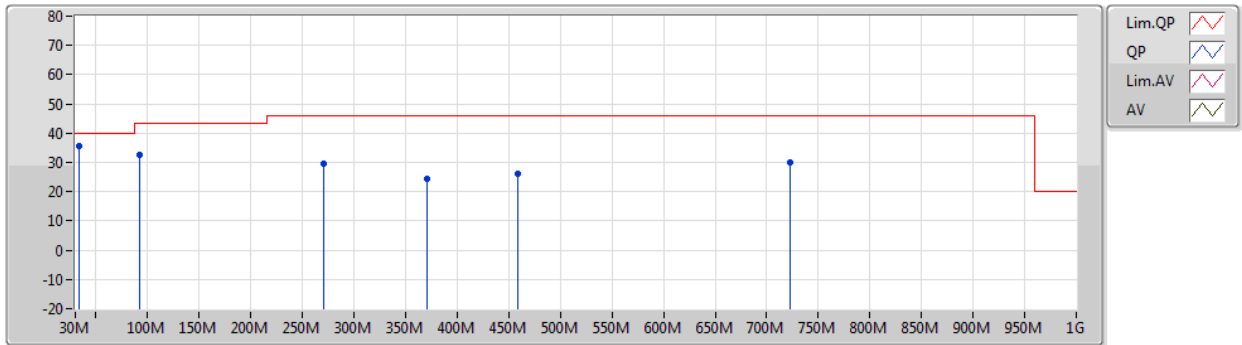


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	95.96M	34.15	43.50	-9.35	-11.00	3	Vertical	0	1.00	-	45.15	15.37	1.40	27.77
PK	280.26M	28.57	46.00	-17.43	-6.75	3	Vertical	0	1.00	-	35.32	18.01	2.28	27.04
PK	456.8M	25.22	46.00	-20.78	-3.11	3	Vertical	0	1.00	-	28.33	22.08	2.92	28.11
PK	546.04M	26.94	46.00	-19.06	-1.49	3	Vertical	0	1.00	-	28.43	23.65	3.18	28.32
PK	644.98M	27.23	46.00	-18.77	-0.54	3	Vertical	0	1.00	-	27.77	24.24	3.44	28.22
QP	33.88M	35.45	40.00	-4.55	-5.10	3	Vertical	50	1.00	-	40.55	21.11	0.90	27.11

Ultra Wide Band_Nss1_1TX

6489.6MHz_Adapter

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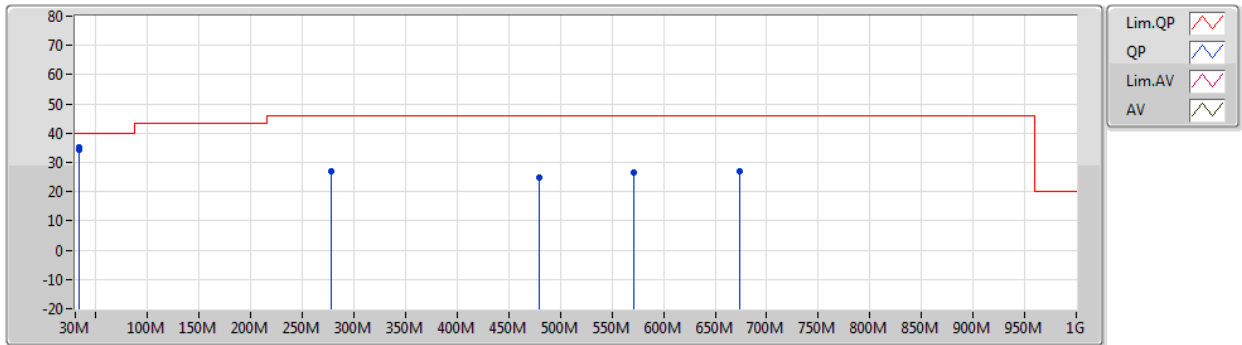


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	35.73	40.00	-4.27	-5.10	3	Horizontal	360	1.00	-	40.83	21.11	0.90	27.11
PK	92.08M	32.66	43.50	-10.84	-11.89	3	Horizontal	360	1.00	-	44.55	14.55	1.37	27.81
PK	270.56M	29.45	46.00	-16.55	-6.74	3	Horizontal	360	1.00	-	36.19	18.06	2.24	27.04
PK	371.44M	24.58	46.00	-21.42	-4.88	3	Horizontal	360	1.00	-	29.46	20.01	2.63	27.52
PK	458.74M	26.11	46.00	-19.89	-3.05	3	Horizontal	360	1.00	-	29.16	22.14	2.93	28.12
PK	722.58M	30.17	46.00	-15.83	0.02	3	Horizontal	360	1.00	-	30.15	24.53	3.65	28.16

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_Adapter

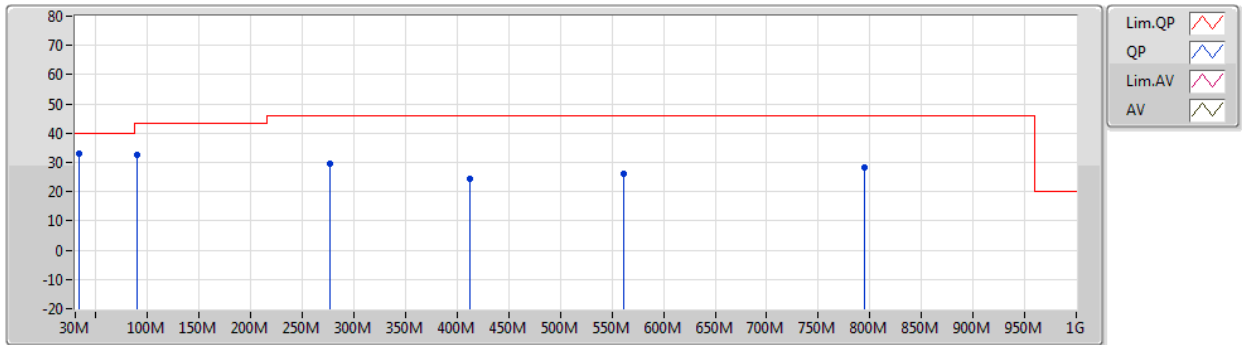


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	33.88M	34.17	43.50	-9.33	-12.39	3	Vertical	0	1.00	-	46.56	14.10	1.35	27.84
PK	278.32M	27.05	46.00	-18.95	-6.77	3	Vertical	0	1.00	-	33.82	18.00	2.27	27.04
PK	480.08M	24.76	46.00	-21.24	-2.61	3	Vertical	0	1.00	-	27.37	22.62	3.01	28.24
PK	571.26M	26.45	46.00	-19.55	-1.19	3	Vertical	0	1.00	-	27.64	23.91	3.27	28.37
PK	674.08M	26.88	46.00	-19.12	-0.50	3	Vertical	0	1.00	-	27.38	24.20	3.52	28.22
QP	33.88M	35.24	40.00	-4.76	-5.10	3	Vertical	55	1.00	-	40.34	21.11	0.90	27.11

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_Adapter



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	33.88M	32.98	40.00	-7.02	-5.10	3	Horizontal	360	3.00	-	38.08	21.11	0.90	27.11
PK	90.14M	32.70	43.50	-10.80	-12.39	3	Horizontal	360	3.00	-	45.09	14.10	1.35	27.84
PK	276.38M	29.54	46.00	-16.46	-6.79	3	Horizontal	360	3.00	-	36.33	17.99	2.26	27.04
PK	412.18M	24.26	46.00	-21.74	-3.45	3	Horizontal	360	3.00	-	27.71	21.62	2.78	27.85
PK	561.56M	26.23	46.00	-19.77	-1.12	3	Horizontal	360	3.00	-	27.35	24.00	3.23	28.35
PK	794.36M	28.27	46.00	-17.73	1.02	3	Horizontal	360	3.00	-	27.25	25.06	3.86	27.90



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
7.25-1025GHz	-	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1_1TX	Pass	AV	1G	15.02	19.90	-4.88	3	Horizontal	360	1.00	-

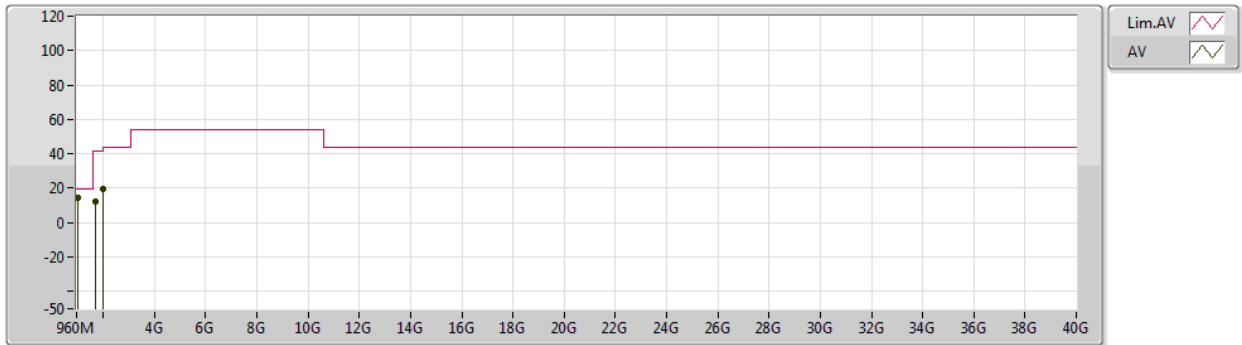
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Ultra Wide Band_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
6489.6MHz	Pass	AV	1G	14.21	19.90	-5.69	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.7072G	12.51	41.90	-29.39	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.9724G	19.75	41.90	-22.15	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1G	14.40	19.90	-5.50	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.7208G	13.56	41.90	-28.34	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.9656G	19.47	41.90	-22.43	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.17814G	-16.12	9.90	-26.02	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.19151G	-16.44	9.90	-26.34	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.21249G	-16.12	9.90	-26.02	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.1792G	-16.15	9.90	-26.05	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.19562G	-16.13	9.90	-26.03	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.21066G	-16.12	9.90	-26.02	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.56288G	-16.78	9.90	-26.68	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.58042G	-16.49	9.90	-26.39	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.58817G	-16.33	9.90	-26.23	3	Vertical	0	1.00	-
6489.6MHz	Pass	AV	1.57063G	-16.55	9.90	-26.45	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.57899G	-16.30	9.90	-26.20	3	Horizontal	360	1.00	-
6489.6MHz	Pass	AV	1.59307G	-16.36	9.90	-26.26	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	1G	14.37	19.90	-5.53	3	Vertical	0	1.00	-
7987.2MHz	Pass	AV	1.7276G	15.24	41.90	-26.66	3	Vertical	0	1.00	-
7987.2MHz	Pass	AV	1.9724G	22.87	41.90	-19.03	3	Vertical	0	1.00	-
7987.2MHz	Pass	AV	1G	15.02	19.90	-4.88	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	1.9588G	21.49	41.90	-20.41	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	2.4484G	16.15	43.90	-27.75	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	1.17814G	-15.90	9.90	-25.80	3	Vertical	0	1.00	-
7987.2MHz	Pass	AV	1.19273G	-15.98	9.90	-25.88	3	Vertical	0	1.00	-
7987.2MHz	Pass	AV	1.21036G	-16.21	9.90	-26.11	3	Vertical	0	1.00	-
7987.2MHz	Pass	AV	1.17874G	-15.81	9.90	-25.71	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	1.19394G	-15.84	9.90	-25.74	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	1.21158G	-15.96	9.90	-25.86	3	Horizontal	360	1.00	-
7987.2MHz	Pass	AV	1.57226G	-15.50	9.90	-25.40	3	Vertical	360	1.00	-
7987.2MHz	Pass	AV	1.58175G	-15.81	9.90	-25.71	3	Vertical	360	1.00	-
7987.2MHz	Pass	AV	1.5896G	-16.03	9.90	-25.93	3	Vertical	360	1.00	-
7987.2MHz	Pass	AV	1.57104G	-15.86	9.90	-25.76	3	Horizontal	0	1.00	-
7987.2MHz	Pass	AV	1.57328G	-15.53	9.90	-25.43	3	Horizontal	0	1.00	-
7987.2MHz	Pass	AV	1.59062G	-15.62	9.90	-25.52	3	Horizontal	0	1.00	-

Ultra Wide Band_Nss1_1TX

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6489.6MHz_TX

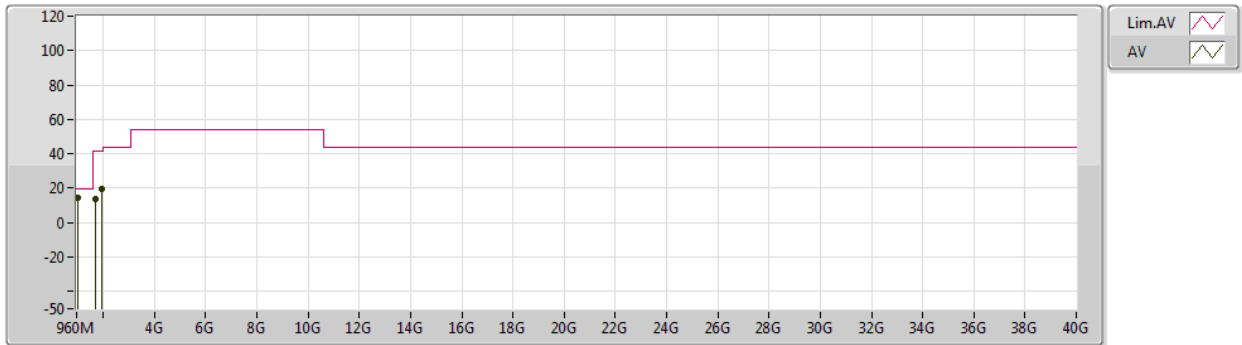


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1G	14.21	19.90	-5.69	-32.48	3	Vertical	0	1.00	-	46.69	24.30	4.57	51.81
AV	1.7072G	12.51	41.90	-29.39	-30.17	3	Vertical	0	1.00	-	42.68	24.93	6.42	51.98
AV	1.9724G	19.75	41.90	-22.15	-28.65	3	Vertical	0	1.00	-	48.40	26.09	6.87	52.07

Ultra Wide Band_Nss1_1TX

19/03/2022

6489.6MHz_TX

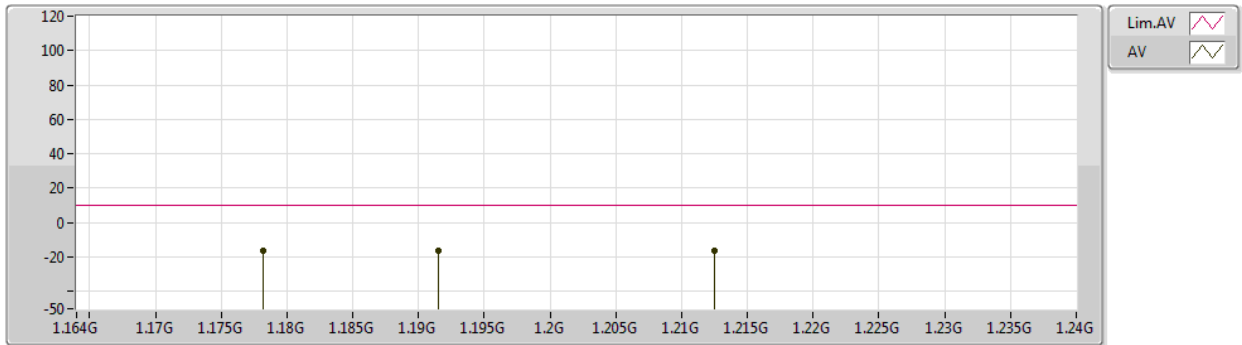


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1G	14.40	19.90	-5.50	-32.48	3	Horizontal	360	1.00	-	46.88	24.30	4.57	51.81
AV	1.7208G	13.56	41.90	-28.34	-30.10	3	Horizontal	360	1.00	-	43.66	24.98	6.45	51.99
AV	1.9656G	19.47	41.90	-22.43	-28.69	3	Horizontal	360	1.00	-	48.16	26.06	6.86	52.07

Ultra Wide Band_Nss1_1TX

19/03/2022

6489.6MHz_TX

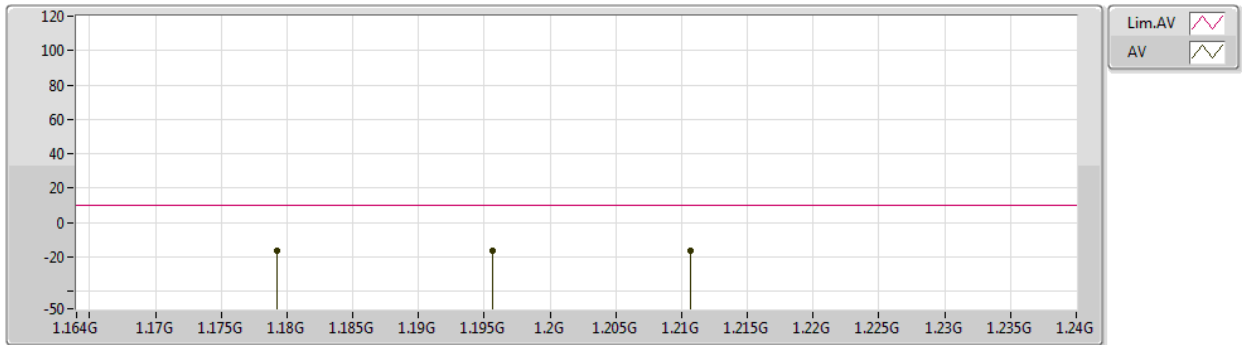


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.17814G	-16.12	9.90	-26.02	-30.88	3	Vertical	0	1.00	-	14.76	25.46	5.05	51.85
AV	1.19151G	-16.44	9.90	-26.34	-30.82	3	Vertical	0	1.00	-	14.38	25.48	5.09	51.85
AV	1.21249G	-16.12	9.90	-26.02	-30.75	3	Vertical	0	1.00	-	14.63	25.50	5.14	51.85

Ultra Wide Band_Nss1_1TX

19/03/2022

6489.6MHz_TX

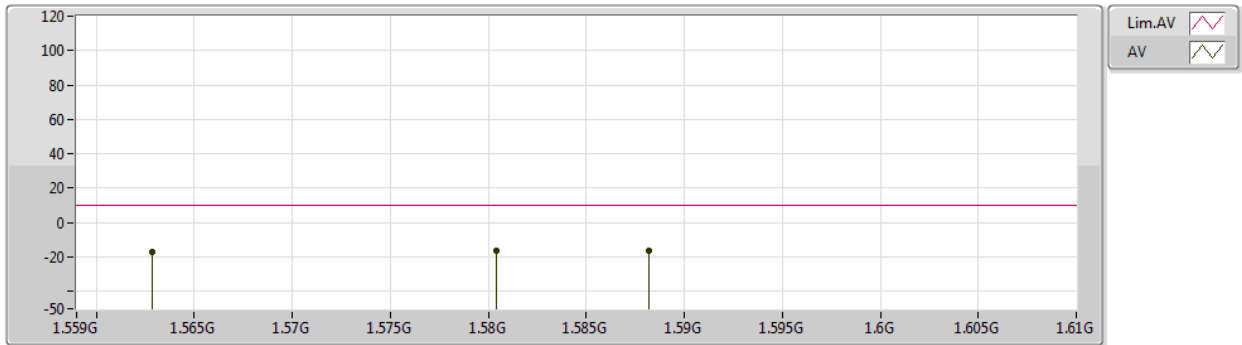


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.1792G	-16.15	9.90	-26.05	-30.88	3	Horizontal	360	1.00	-	14.73	25.46	5.05	51.85
AV	1.19562G	-16.13	9.90	-26.03	-30.80	3	Horizontal	360	1.00	-	14.67	25.49	5.10	51.85
AV	1.21066G	-16.12	9.90	-26.02	-30.75	3	Horizontal	360	1.00	-	14.63	25.50	5.14	51.85

Ultra Wide Band_Nss1_1TX

19/03/2022

6489.6MHz_TX

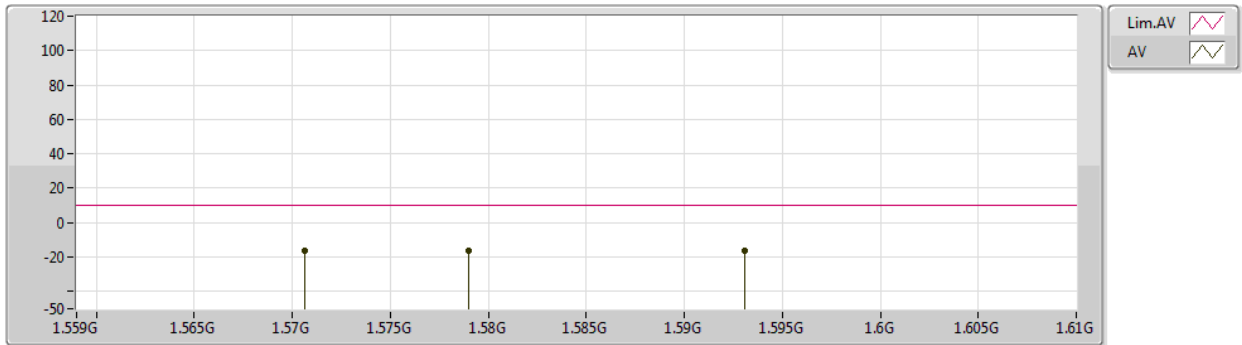


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.56288G	-16.78	9.90	-26.68	-30.19	3	Vertical	0	1.00	-	13.41	25.20	6.08	51.93
AV	1.58042G	-16.49	9.90	-26.39	-30.29	3	Vertical	0	1.00	-	13.80	25.06	6.13	51.94
AV	1.58817G	-16.33	9.90	-26.23	-30.34	3	Vertical	0	1.00	-	14.01	24.99	6.15	51.94

Ultra Wide Band_Nss1_1TX

19/03/2022

6489.6MHz_TX

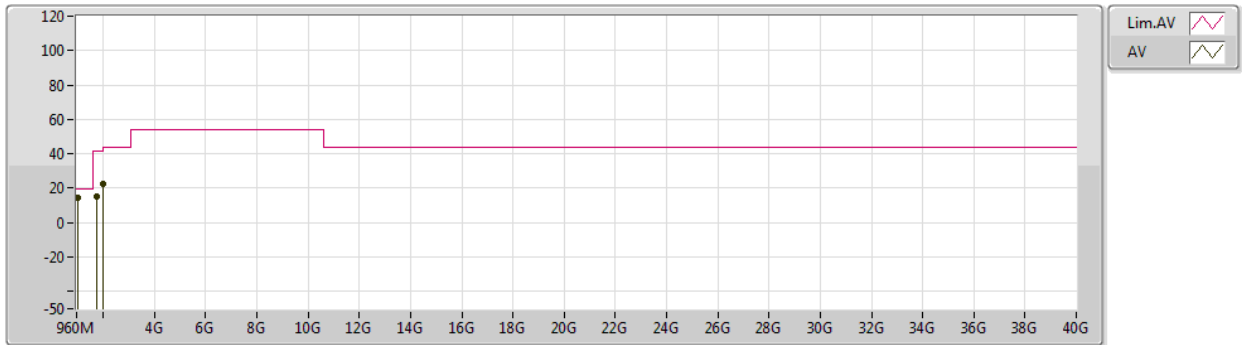


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.57063G	-16.55	9.90	-26.45	-30.24	3	Horizontal	360	1.00	-	13.69	25.13	6.10	51.93
AV	1.57899G	-16.30	9.90	-26.20	-30.29	3	Horizontal	360	1.00	-	13.99	25.07	6.12	51.94
AV	1.59307G	-16.36	9.90	-26.26	-30.36	3	Horizontal	360	1.00	-	14.00	24.96	6.16	51.94

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_TX

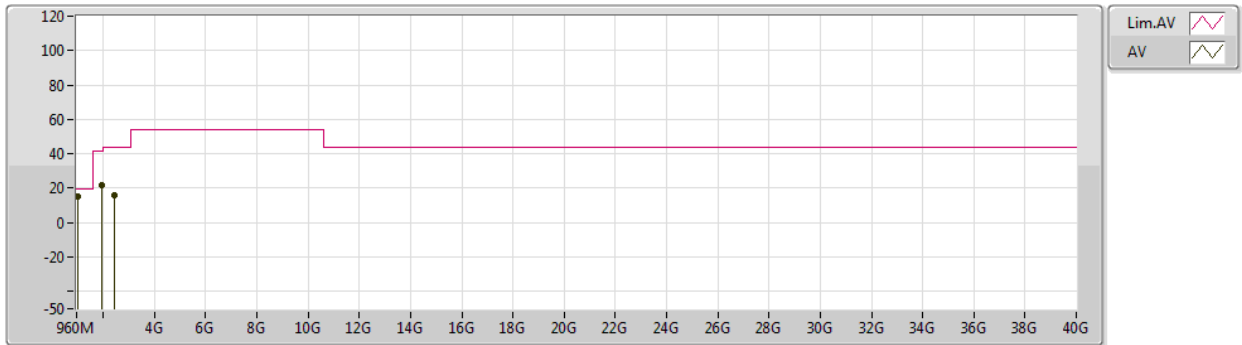


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1G	14.37	19.90	-5.53	-32.48	3	Vertical	0	1.00	-	46.85	24.30	4.57	51.81
AV	1.7276G	15.24	41.90	-26.66	-30.06	3	Vertical	0	1.00	-	45.30	25.01	6.46	51.99
AV	1.9724G	22.87	41.90	-19.03	-28.65	3	Vertical	0	1.00	-	51.52	26.09	6.87	52.07

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_TX

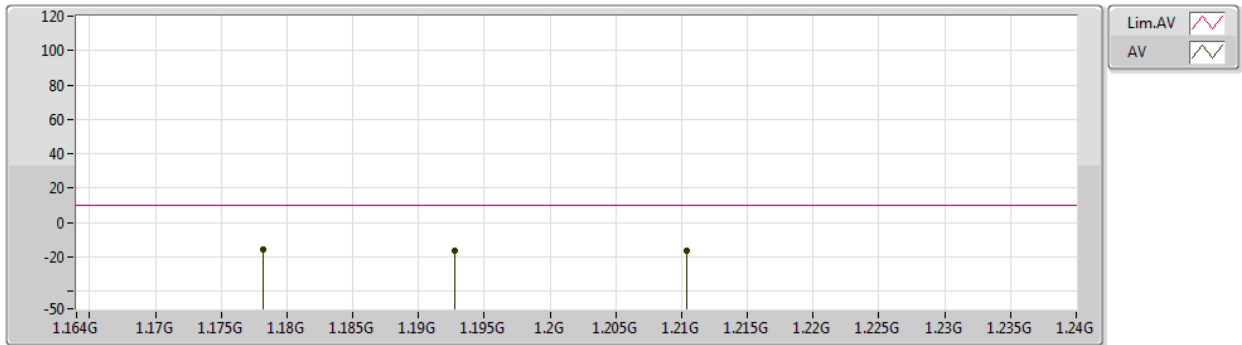


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1G	15.02	19.90	-4.88	-32.48	3	Horizontal	360	1.00	-	47.50	24.30	4.57	51.81
AV	1.9588G	21.49	41.90	-20.41	-28.72	3	Horizontal	360	1.00	-	50.21	26.04	6.85	52.07
AV	2.4484G	16.15	43.90	-27.75	-26.67	3	Horizontal	360	1.00	-	42.82	27.41	7.30	51.84

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_TX

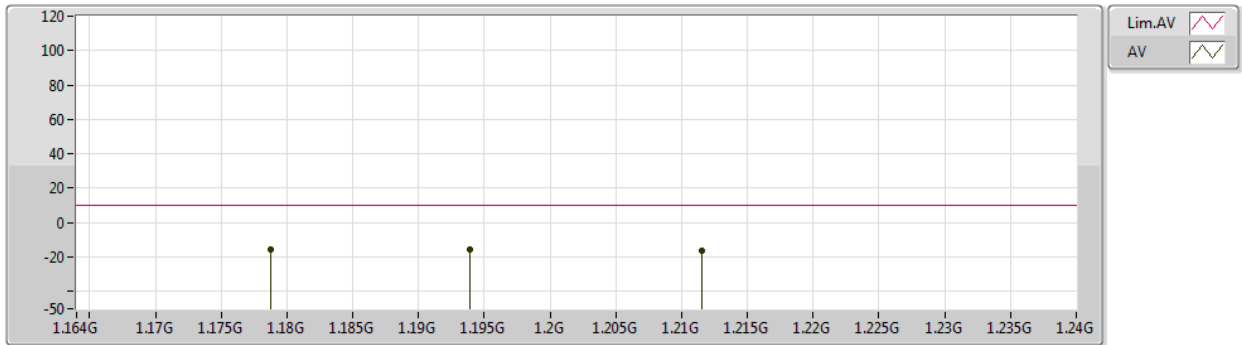


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.17814G	-15.90	9.90	-25.80	-30.88	3	Vertical	0	1.00	-	14.98	25.46	5.05	51.85
AV	1.19273G	-15.98	9.90	-25.88	-30.81	3	Vertical	0	1.00	-	14.83	25.49	5.09	51.85
AV	1.21036G	-16.21	9.90	-26.11	-30.75	3	Vertical	0	1.00	-	14.54	25.50	5.14	51.85

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_TX

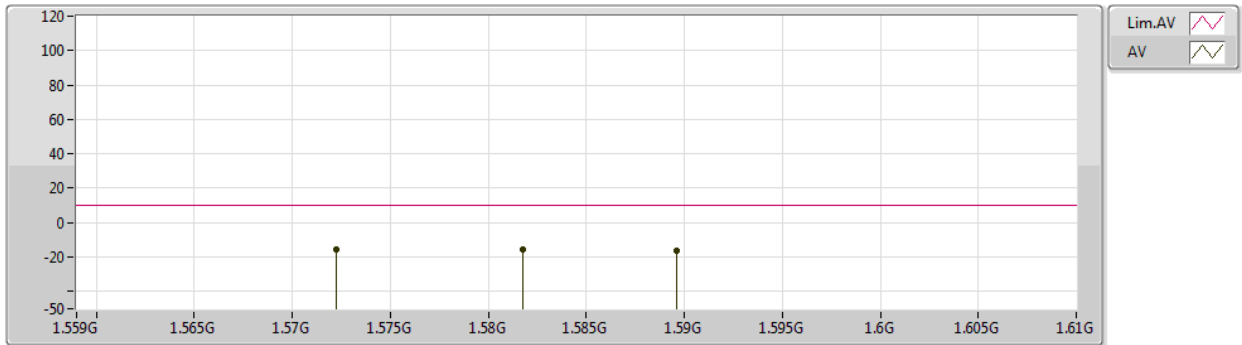


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.17874G	-15.81	9.90	-25.71	-30.88	3	Horizontal	360	1.00	-	15.07	25.46	5.05	51.85
AV	1.19394G	-15.84	9.90	-25.74	-30.81	3	Horizontal	360	1.00	-	14.97	25.49	5.09	51.85
AV	1.21158G	-15.96	9.90	-25.86	-30.75	3	Horizontal	360	1.00	-	14.79	25.50	5.14	51.85

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_TX

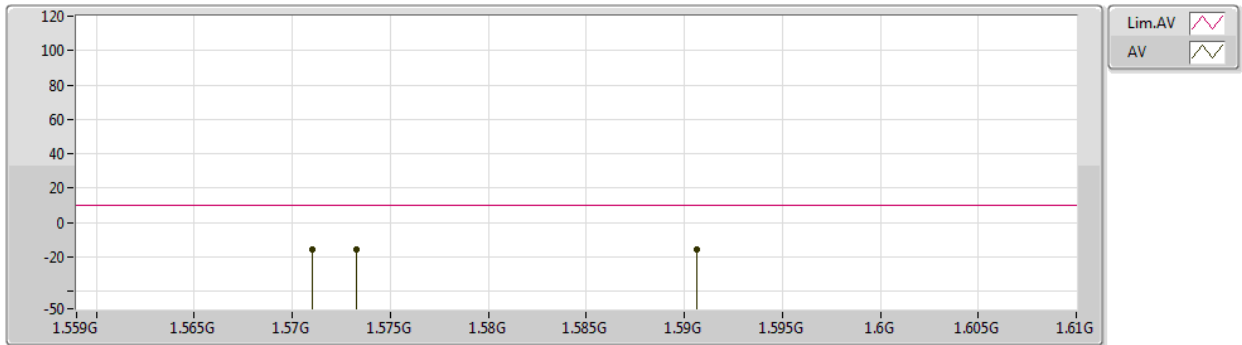


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	1.57226G	-15.50	9.90	-25.40	-30.24	3	Vertical	360	1.00	-	14.74	25.12	6.11	51.93
AV	1.58175G	-15.81	9.90	-25.71	-30.30	3	Vertical	360	1.00	-	14.49	25.05	6.13	51.94
AV	1.5896G	-16.03	9.90	-25.93	-30.35	3	Vertical	360	1.00	-	14.32	24.98	6.15	51.94

Ultra Wide Band_Nss1_1TX

19/03/2022

7987.2MHz_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	1.57104G	-15.86	9.90	-25.76	-30.24	3	Horizontal	0	1.00	-	14.38	25.13	6.10	51.93
AV	1.57328G	-15.53	9.90	-25.43	-30.25	3	Horizontal	0	1.00	-	14.72	25.11	6.11	51.93
AV	1.59062G	-15.62	9.90	-25.52	-30.34	3	Horizontal	0	1.00	-	14.72	24.98	6.16	51.94



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
7.25-1025GHz	-	-	-	-	-	-	-	-	-	-	-
Ultra Wide Band_Nss1_1TX	Pass	AV	7.9872G	53.79	53.90	-0.11	3	Horizontal	71	1.60	-



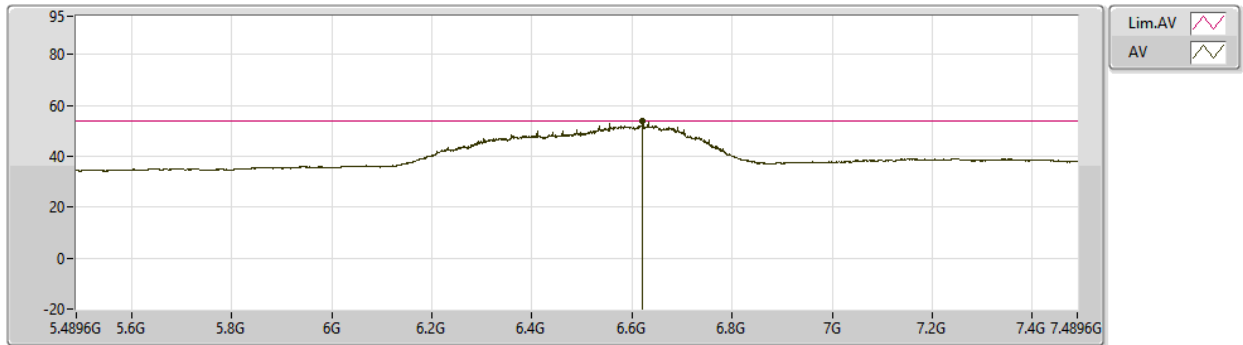
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Ultra Wide Band_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-
6489.6MHz	Pass	AV	6.6216G	53.64	53.90	-0.26	3	Horizontal	66	1.49	-
7987.2MHz	Pass	AV	7.9872G	53.79	53.90	-0.11	3	Horizontal	71	1.60	-

Ultra Wide Band_Nss1_1TX

01/08/2022

6489.6MHz_TX

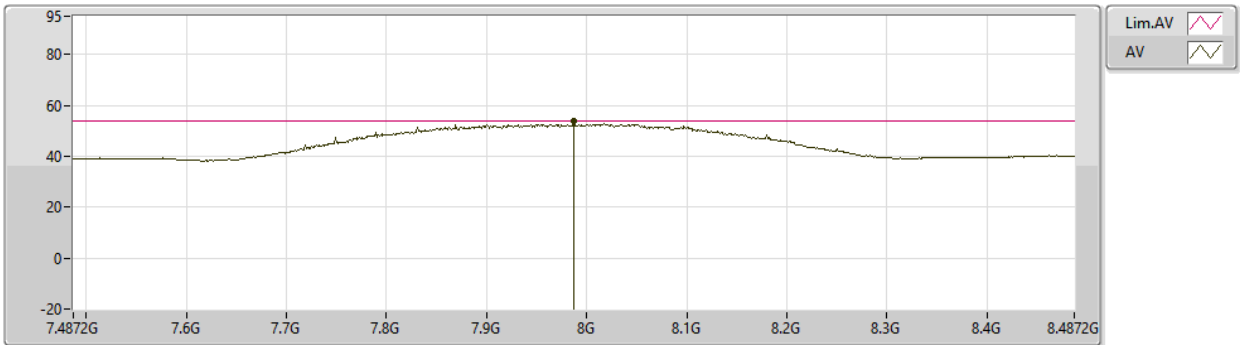


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	6.6216G	53.64	53.90	-0.26	12.10	3	Horizontal	66	1.49	-	41.54	35.64	10.79	34.33

Ultra Wide Band_Nss1_1TX

01/08/2022

7987.2MHz_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	7.9872G	53.79	53.90	-0.11	13.88	3	Horizontal	71	1.60	-	39.91	37.07	11.48	34.67