Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	RIWZAT6000
Equipment	:	ATSC 3.0 STB
Brand Name	:	ZINWELL
Model Name	:	ZAT-6000
Applicant	:	ZINWELL CORPORATION No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Manufacturer	:	ZINWELL CORPORATION No. 2 Wen-Hua Road, Hsinchu Industrial Park, Hsinchu, Taiwan
Standard	:	47 CFR FCC Part 15.407

The product was received on Aug. 23, 2023, and testing was started from Aug. 24, 2023 and completed on Sep. 04, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 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. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

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

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History of this test report

Report No.	Version	Description	Issued Date
FR372004AB	01	Initial issue of report	Sep. 14, 2023

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	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

Conformity Assessment Condition:

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

Disclaimer:

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

Reviewed by: Sam Chen
Report Producer: Viola Huang

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX
5.15-5.25GHz	802.11n HT20	20	1TX
5.15-5.25GHz	802.11ac VHT20	20	1TX
5.15-5.25GHz	802.11n HT40	40	1TX
5.15-5.25GHz	802.11ac VHT40	40	1TX
5.15-5.25GHz	802.11ac VHT80	80	1TX
5.725-5.85GHz	802.11a	20	1TX
5.725-5.85GHz	802.11n HT20	20	1TX
5.725-5.85GHz	802.11ac VHT20	20	1TX
5.725-5.85GHz	802.11n HT40	40	1TX
5.725-5.85GHz	802.11ac VHT40	40	1TX
5.725-5.85GHz	802.11ac VHT80	80	1TX

Note:
- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		
						2.4GHz	5GHz UNII 1	5GHz UNII 3
1	1	INPAQ	ZAT-6000	PCB Antenna	I-PEX	2.42	3.13	4.41

Note: The above information was declared by manufacturer.

<For 2.4GHz Band>

For IEEE 802.11b/g/n mode (1TX/1RX)

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

<For 5GHz Band UNII 1, UNII 3>

For IEEE 802.11a/n/ac mode (1TX/1RX)

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.945	0.25	2.065m	1k
802.11ac VHT20	0.937	0.28	1.934m	1k
802.11ac VHT40	0.901	0.45	953.75u	3k
802.11ac VHT80	0.821	0.86	461.25u	3k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☐	Outdoor P2M	☐	Indoor P2M
	☐	Fixed P2P	☒	Client
	☒	Point-to-multipoint	☐	Point-to-point
Channel Puncturing Function	☐	Supported	☒	Unsupported
Test Software Version	DOS [ver 10.0.10586]			

Note: The above information was declared by manufacturer.

1.2 Applicable Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- FCC KDB 789033 D02 v02r01

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

- FCC KDB 662911 D01 v02r01
- FCC KDB 412172 D01 v01r01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH02-CB	KJ Chang	22.5~24.7 / 62~68	Sep. 04, 2023
Radiated Below 1GHz	03CH03-CB	Wendy Hsu	22.4~23.5 / 55~58	Aug. 31, 2023
Radiated Above 1GHz	03CH03-CB	Wendy Hsu	22.4~23.5 / 55~58	Aug. 24, 2023~Sep. 02, 2023
AC Conduction	CO01-CB	Summer Li	22~23 / 50~51	Sep. 04, 2023

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)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_1TX	-
5180MHz	61
5200MHz	63
5240MHz	63
5745MHz	63
5785MHz	63
5825MHz	63
802.11ac VHT20_Nss1,(MCS0)_1TX	-
5180MHz	62
5200MHz	63
5240MHz	63
5745MHz	63
5785MHz	63
5825MHz	63
802.11ac VHT40_Nss1,(MCS0)_1TX	-
5190MHz	49
5230MHz	63
5755MHz	63
5795MHz	63
802.11ac VHT80_Nss1,(MCS0)_1TX	-
5210MHz	48
5775MHz	60

Note:
- Evaluated VHT20/VHT40/VHT80 mode only due to the similar modulation. The power setting of HT20/HT40 mode are the same or lower than VHT20/VHT40.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT with WLAN 2.4GHz + Coaxial port-Video IN + USB port-load + Adapter
2	EUT with WLAN 5GHz + Coaxial port-Video IN + USB port-load + Adapter
Mode 1 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT with WLAN 2.4GHz + Coaxial port-load + USB port-Video IN + Adapter
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted 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 < 1GHz	Normal Link
	After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Z axis with WLAN 2.4GHz + Coaxial port-Video IN + USB port-load + Adapter
2	EUT in Z axis with WLAN 5GHz + Coaxial port-Video IN + USB port-load + Adapter
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3 will follow this same test mode.	
3	EUT in Z axis with WLAN 5GHz + Coaxial port-load + USB port-Video IN + Adapter
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
	After evaluating, the worst case was found at Z axis, so it was selected to perform test and its test result was written in the report.
1	EUT in Z axis

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	APD	WB-18Q12FU1	INPUT: 100-240V~,50-60Hz,0.6A Max. OUTPUT: 12V, 1.5A
Other			
Remote controller*1			
HDMI cable*1: Shielding, 3m			
Coaxial cable*1: Shielding, 3m			
Window antenna*1			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Flash disk3.0	Transcend	JetFlash-700	N/A
B	LCD Monitor	PHILIPS	288E2A/96	N/A
D	AP Router	ASUS	RT-AX88U	MSQ-RTAXHP00
E	LAN NB	DELL	T3400	N/A

For Radiated (below 1GHz):

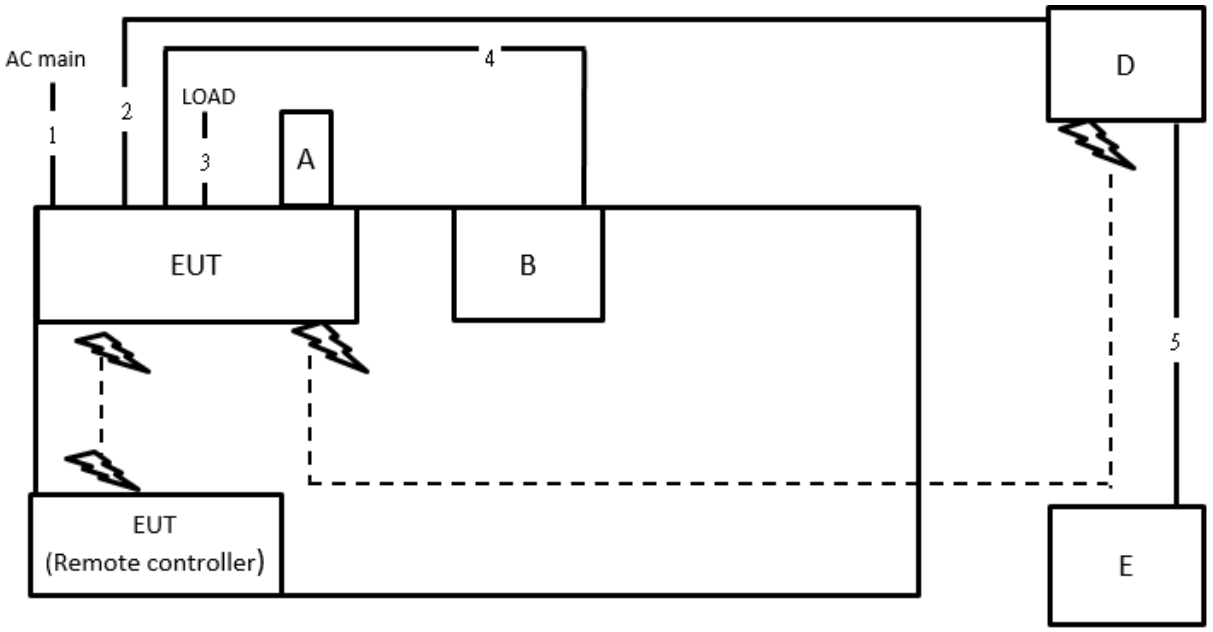
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	WLAN AP	NETGEAR	N600	N/A
B	LAN NB	DELL	E4300	N/A
C	LCD TV	PHILIPS	288E2A/96	N/A
D	Flash disk3.0	Transcend	JetFlash-700	N/A

For Radiated (above 1GHz) and RF Conducted:

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

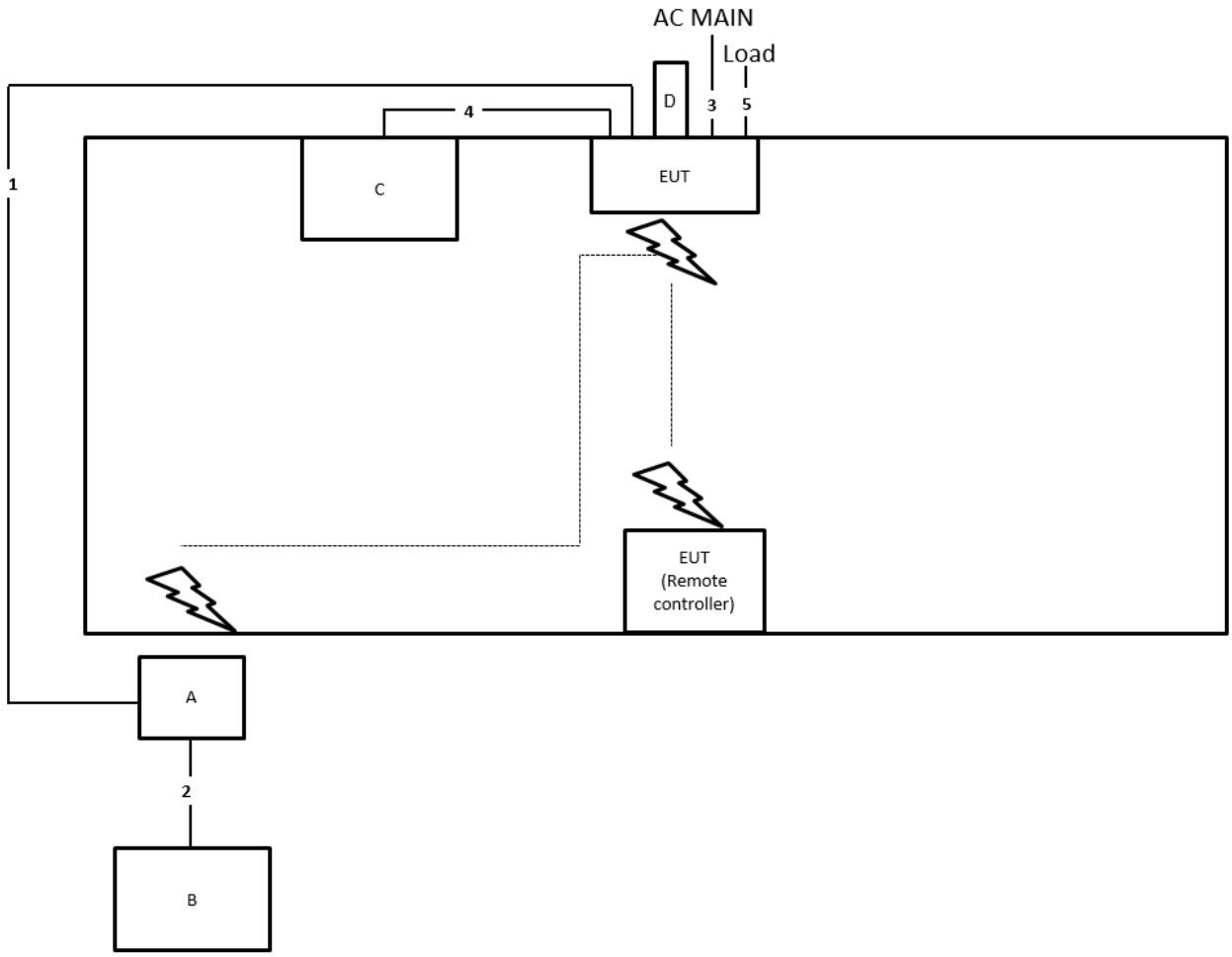
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



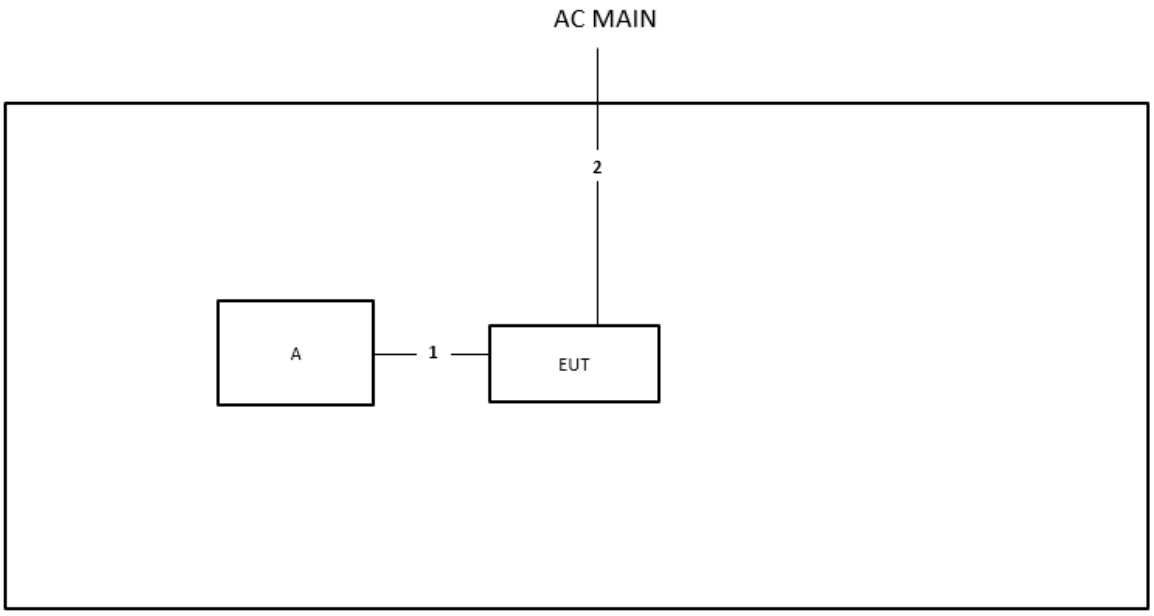
Item	Connection	Shielded	Length
1	Power cable	No	1.6m
2	RJ-45 cable	No	10m
3	Coaxial cable	Yes	3m
4	HDMI cable	Yes	3m
5	RJ-45 cable	No	3m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1.5m
3	Power cable	No	1.6m
4	HDMI cable	Yes	3m
5	Coaxial cable	Yes	3m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	Power cable	No	1.6m

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

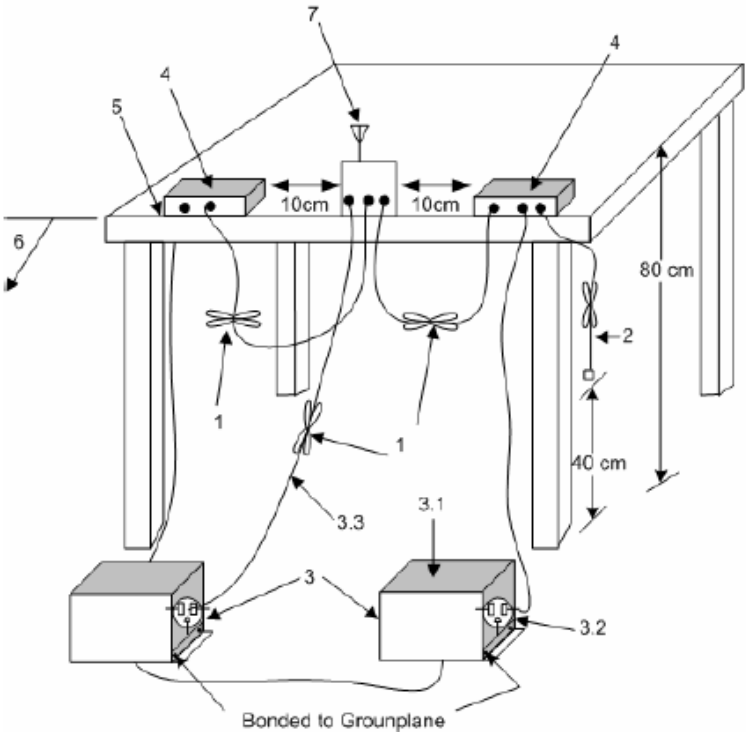
Refer a test equipment and calibration data table in this test report.

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 Test Setup

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☐	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
☒	For the 5.725-5.85 GHz band, 26 dB emission bandwidth ,N/A. 6 dB emission bandwidth ≥ 500kHz.
LE-LAN Devices	
☐	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth ≥ 500kHz.

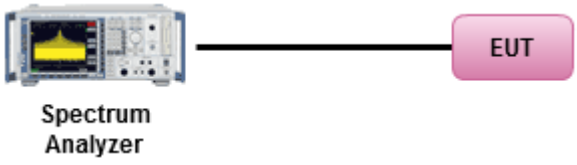
3.2.2 Measuring Instruments

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 FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.
	☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
	☐	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Output Power

3.3.1 Limit

Maximum Output Power Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6). e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm]
	▪ Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6)
	▪ Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W If G_{TX} > 23 dBi, then P_{Out} = 30 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.25-5.35 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If G_{TX} > 6 dBi, then P_{Out} = 24 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
☐	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If G_{TX} > 6 dBi, then P_{Out} = 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = 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	
	Average over on/off periods with duty factor
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
	☒ Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
☒	For conducted measurement.
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$
☐	For radiated measurement.
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F ”Antenna-port Conducted versus Radiated Testing”
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.3.4 Test Setup

Conducted Measurement (Power Meter)


3.3.5 Test Result of Maximum Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Limit

Peak Power Spectral Density Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band:
	▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 6 dBi, then P_{Out} = 17 – (G_{TX} – 6).
	▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If G_{TX} > 23 dBi, then P_{Out} = 17 – (G_{TX} – 23).
	▪ Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6)..
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☐	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If G_{TX} > 6 dBi, then PPSD= 11 – (G_{TX} – 6).
☒	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐	For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.
☐	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
	▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for 0° ≤ θ < 8° ; -13 − 0.716 (θ-8) dBW/MHz for 8° ≤ θ < 40° -35.9 − 1.22 (θ-40) dBW/MHz for 40° ≤ θ ≤ 45° ; -42 dBW/MHz for θ > 45°
☐	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz.
☐	For the 5.725-5.85 GHz band:
	▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If G_{TX} > 6 dBi, then PPSD= 30 – (G_{TX} – 6).
	▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.4.2 Measuring Instruments

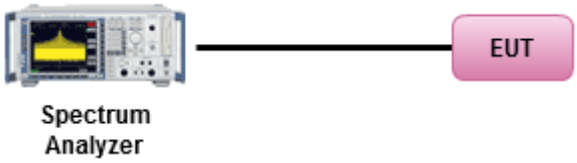
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:		
	☐ Refer as FCC KDB 789033 D02, F)5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
	[duty cycle ≥ 98% or external video / power trigger]	
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)	
	duty cycle < 98% and average over on/off periods with duty factor	
	☒ Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).	
	☐ Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
☒ For conducted measurement.		
	▪ If the EUT supports multiple transmit chains using options given below:	
		☐ Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.
	▪	If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \ldots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$
☐ For radiated measurement.		
	▪ Refer as FCC KDB 789033 D02 clause II A.1.F ”Antenna-port Conducted versus Radiated Testing”	
	▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.	

Test Method	
	▪ Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.

3.4.4 Test Setup

Conducted Measurement


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Unwanted Emissions

3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	**Limit**
☒ 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☐ 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
☒ 5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note 1: 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).

3.5.2 Measuring Instruments

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

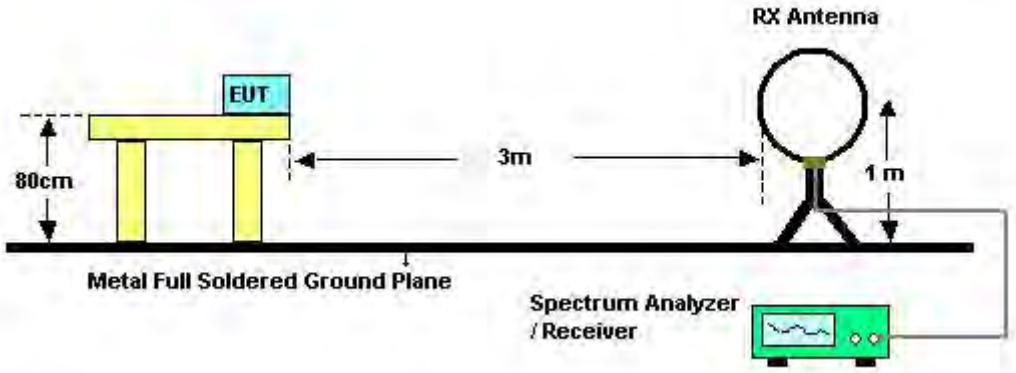
3.5.3 Test Procedures

Test Method		
▪ 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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).		
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].		
▪ For the transmitter unwanted emissions shall be measured using following options below:		
	▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.	
	▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.	
		☐ Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
		☒ Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
		☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
		☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
		☒ Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
		☐ 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 1GHz.	
▪ The any unwanted emissions level shall not exceed the fundamental emission level.		
▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.		

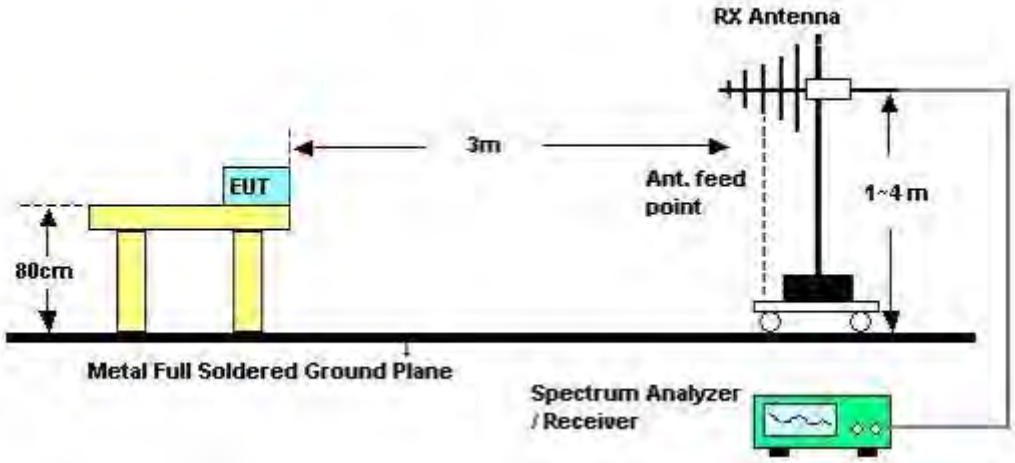
3.5.4 Test Setup

Transmitter Radiated Unwanted Emissions

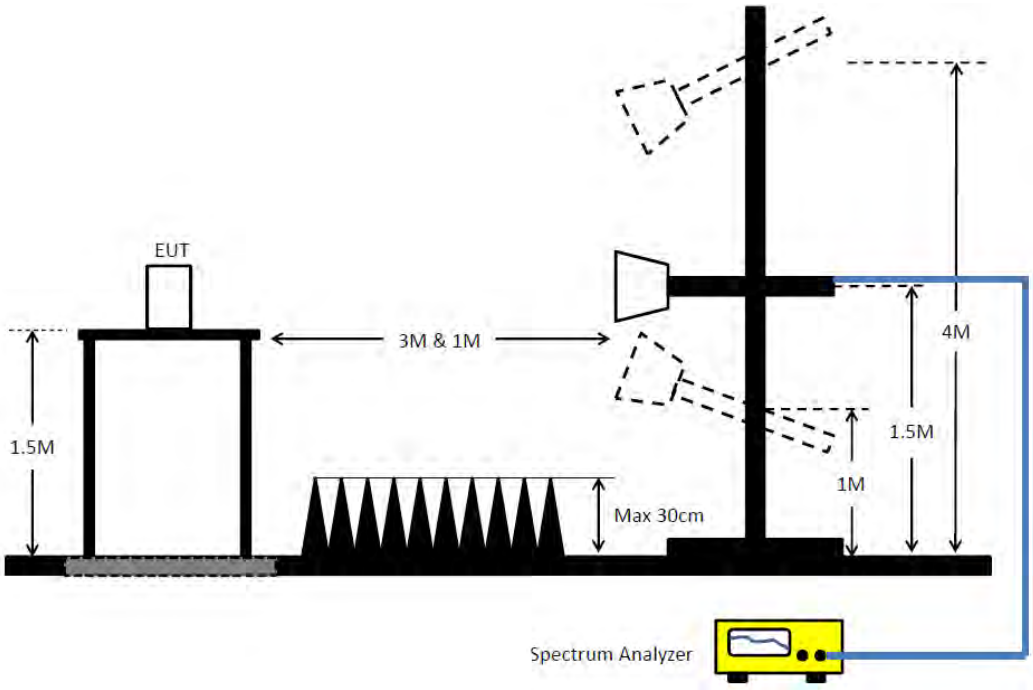
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.5.5 Measurement Results Calculation

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

3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Brand	**Model No.**	**Serial No.**	**Characteristics**	**Calibration Date**	**Calibration Due Date**	**Remark**
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 20, 2023	Feb. 19, 2024	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 16, 2023	Feb. 15, 2024	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 27, 2023	Apr. 26, 2024	Conduction (CO01-CB)
Pulse Limiter	Rohde& Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 09, 2023	Feb. 08, 2024	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 18, 2022	Oct. 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	31244	9kHz - 30 MHz	Mar. 23, 2023	Mar. 22, 2024	Radiation (03CH03-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH03-CB	30 MHz ~ 1 GHz	Jan. 17, 2023	Jan. 16, 2024	Radiation (03CH03-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 04, 2023	May 03, 2024	Radiation (03CH03-CB)
Bilog Antenna with 6 dB attenuator	Schaffner & EMCI	CBL6112B & N-6-06	2928 & AT-N0608	20MHz ~ 2GHz	Feb. 19, 2023	Feb. 18, 2024	Radiation (03CH03-CB)
Horn Antenna	ETS・Lindgren	3115	6821	750MHz~18GHz	Feb. 03, 2023	Feb. 02, 2024	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jun. 28, 2023	Jun. 27, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8447D	2944A10259	9kHz ~ 1.3GHz	Jan. 09, 2023	Jan. 08, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 16, 2022	Nov. 15, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH03-CB)
RF Cable-low	Woken	RG402	Low Cable-02+29	30MHz ~ 1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)

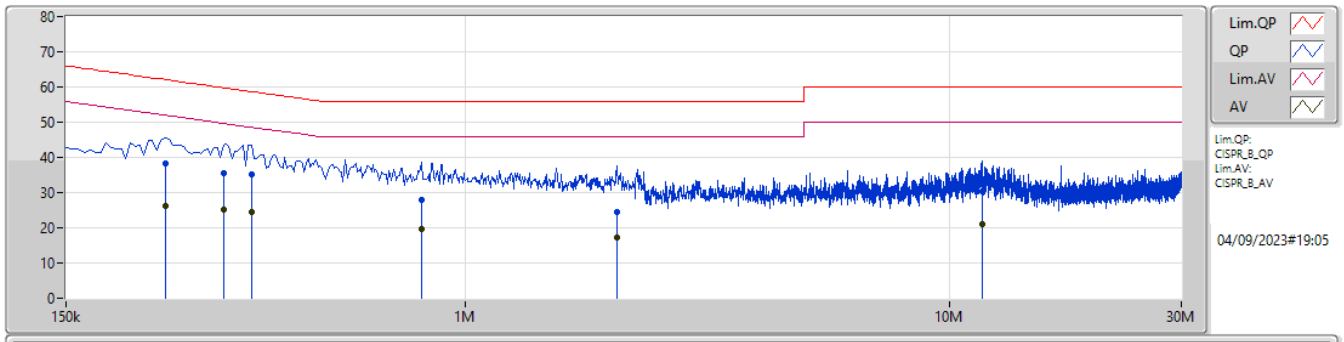
Instrument	Brand	**Model No.**	**Serial No.**	**Characteristics**	**Calibration Date**	**Calibration Due Date**	**Remark**
Spectrum analyzer	R&S	FSV40	101027	9kHz~40GHz	Aug. 14, 2023	Aug. 13, 2024	Conducted (TH02-CB)
Power Sensor	Anritsu	MA2411B	1126203	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
Power Meter	Anritsu	ML2495A	1210004	300MHz~40GHz	Oct. 17, 2022	Oct. 16, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-01	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-02	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-03	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-04	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
RF Cable-high	Woken	RG402	High Cable-05	1 GHz – 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH02-CB)
Switch	SPTCB	SP-SWI	SWI-02	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH02-CB)

Note: Calibration Interval of instruments listed above is one year.
N.C.R. means Non-Calibration required.

Summary

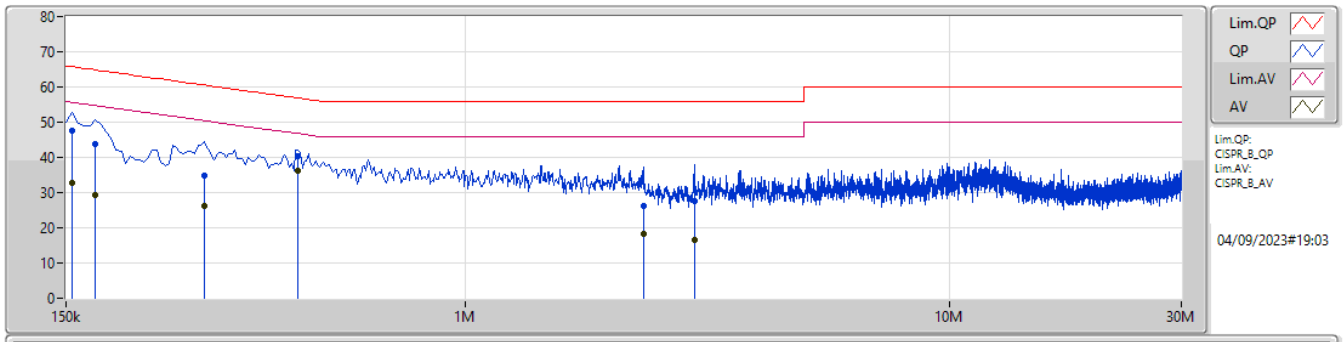
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 3	Pass	AV	451.5k	36.09	46.84	-10.75	Neutral

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	240k	38.38	62.10	-23.72	10.00	Line	-	28.38	0.08	0.05	9.87
AV	240k	26.05	52.10	-26.05	10.00	Line	-	16.05	0.08	0.05	9.87
QP	316.5k	35.51	59.80	-24.29	10.03	Line	-	25.48	0.09	0.05	9.89
AV	316.5k	25.02	49.80	-24.78	10.03	Line	-	14.99	0.09	0.05	9.89
QP	361.5k	35.07	58.70	-23.63	10.04	Line	"Worst"	25.03	0.09	0.06	9.89
AV	361.5k	24.60	48.70	-24.10	10.04	Line	-	14.56	0.09	0.06	9.89
QP	811.5k	27.89	56.00	-28.11	10.05	Line	-	17.84	0.11	0.04	9.90
AV	811.5k	19.66	46.00	-26.34	10.05	Line	-	9.61	0.11	0.04	9.90
QP	2.054M	24.65	56.00	-31.35	10.13	Line	-	14.52	0.14	0.09	9.90
AV	2.054M	17.28	46.00	-28.72	10.13	Line	-	7.15	0.14	0.09	9.90
QP	11.657M	30.24	60.00	-29.76	10.38	Line	-	19.86	0.26	0.16	9.96
AV	11.657M	20.96	50.00	-29.04	10.38	Line	-	10.58	0.26	0.16	9.96

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	154.5k	47.59	65.75	-18.16	9.98	Neutral	-	37.61	0.07	0.04	9.87
AV	154.5k	32.72	55.75	-23.03	9.98	Neutral	-	22.74	0.07	0.04	9.87
QP	172.5k	43.63	64.83	-21.20	9.98	Neutral	-	33.65	0.07	0.04	9.87
AV	172.5k	29.21	54.83	-25.62	9.98	Neutral	-	19.23	0.07	0.04	9.87
QP	289.5k	34.95	60.53	-25.58	10.00	Neutral	-	24.95	0.07	0.05	9.88
AV	289.5k	26.18	50.53	-24.35	10.00	Neutral	-	16.18	0.07	0.05	9.88
QP	451.5k	40.27	56.84	-16.57	10.03	Neutral	-	30.24	0.07	0.06	9.90
AV	451.5k	36.09	46.84	-10.75	10.03	Neutral	"Worst"	26.06	0.07	0.06	9.90
QP	2.328M	26.24	56.00	-29.76	10.10	Neutral	-	16.14	0.11	0.09	9.90
AV	2.328M	18.16	46.00	-27.84	10.10	Neutral	-	8.06	0.11	0.09	9.90
QP	2.967M	27.63	56.00	-28.37	10.13	Neutral	-	17.50	0.12	0.10	9.91
AV	2.967M	16.49	46.00	-29.51	10.13	Neutral	-	6.36	0.12	0.10	9.91

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	34.98M	19.017M	19M0D1D	32.56M	17.52M
802.11ac VHT20_Nss1,(MCS0)_1TX	39.82M	19.946M	19M9D1D	37.455M	18.962M
802.11ac VHT40_Nss1,(MCS0)_1TX	81.73M	37.939M	37M9D1D	41.25M	36.368M
802.11ac VHT80_Nss1,(MCS0)_1TX	82.06M	75.877M	75M9D1D	82.06M	75.877M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.555M	27.004M	27M0D1D	16.225M	25.866M
802.11ac VHT20_Nss1,(MCS0)_1TX	17.765M	27.973M	28M0D1D	17.6M	25.832M
802.11ac VHT40_Nss1,(MCS0)_1TX	36.41M	53.285M	53M3D1D	36.3M	50.14M
802.11ac VHT80_Nss1,(MCS0)_1TX	75.46M	99.592M	99M6D1D	75.46M	99.592M

Max-N dB = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;
Min-OBW = Minimum 99% occupied bandwidth

Result

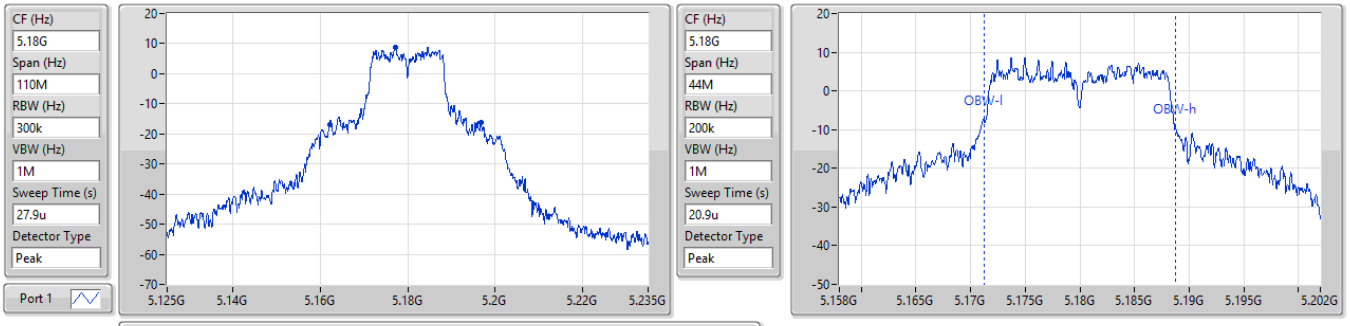
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-
5180MHz	Pass	Inf	34.65M	17.52M
5200MHz	Pass	Inf	34.98M	19.017M
5240MHz	Pass	Inf	32.56M	18.344M
5745MHz	Pass	500k	16.555M	25.866M
5785MHz	Pass	500k	16.5M	26.053M
5825MHz	Pass	500k	16.225M	27.004M
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-
5180MHz	Pass	Inf	39.82M	18.962M
5200MHz	Pass	Inf	37.455M	19.946M
5240MHz	Pass	Inf	38.005M	19.422M
5745MHz	Pass	500k	17.71M	25.832M
5785MHz	Pass	500k	17.765M	26.867M
5825MHz	Pass	500k	17.6M	27.973M
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-
5190MHz	Pass	Inf	41.25M	36.368M
5230MHz	Pass	Inf	81.73M	37.939M
5755MHz	Pass	500k	36.41M	50.14M
5795MHz	Pass	500k	36.3M	53.285M
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-
5210MHz	Pass	Inf	82.06M	75.877M
5775MHz	Pass	500k	75.46M	99.592M

Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5180MHz

04/09/2023

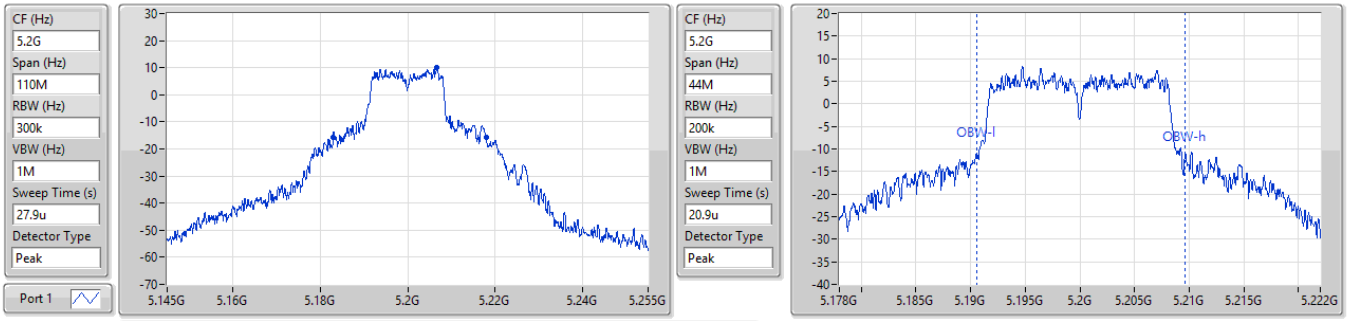


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.65M	5.162125G	5.196775G	17.52M	5.171265G	5.188786G	Inf	1

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

5200MHz

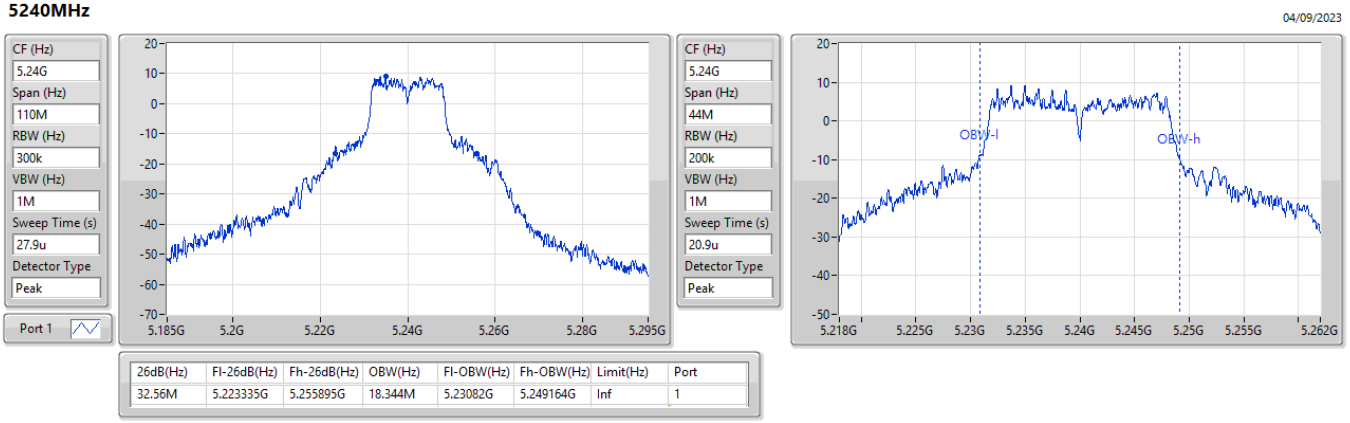
04/09/2023



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
34.98M	5.18295G	5.21793G	19.017M	5.190562G	5.209579G	Inf	1

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

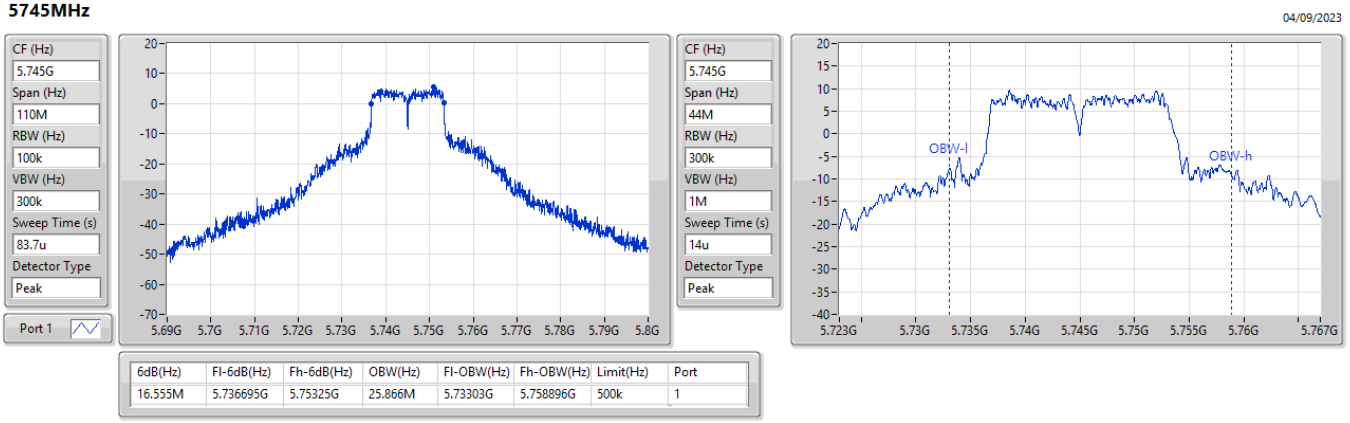
5240MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
32.56M	5.223335G	5.255895G	18.344M	5.23082G	5.249164G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

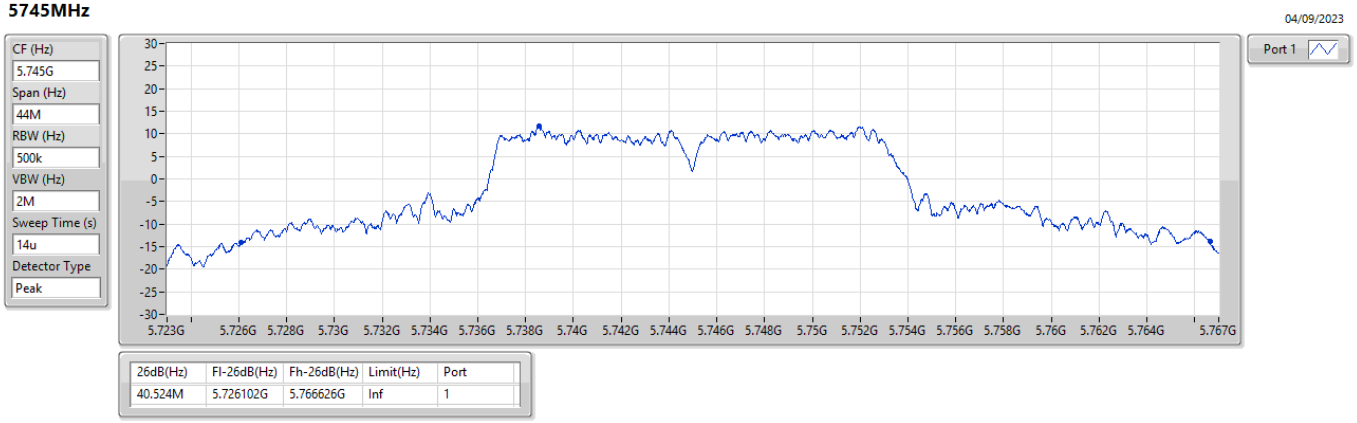
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.555M	5.736695G	5.75325G	25.866M	5.73303G	5.758896G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

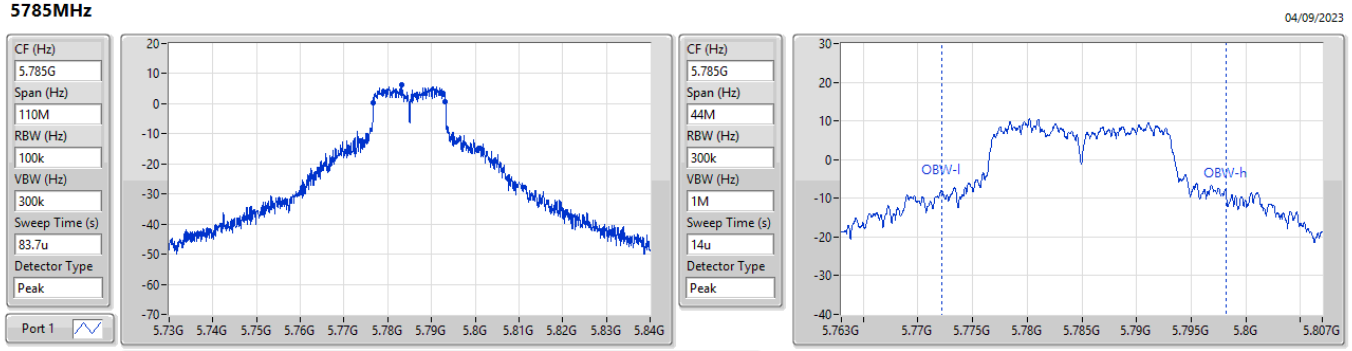
5745MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
40.524M	5.726102G	5.766626G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

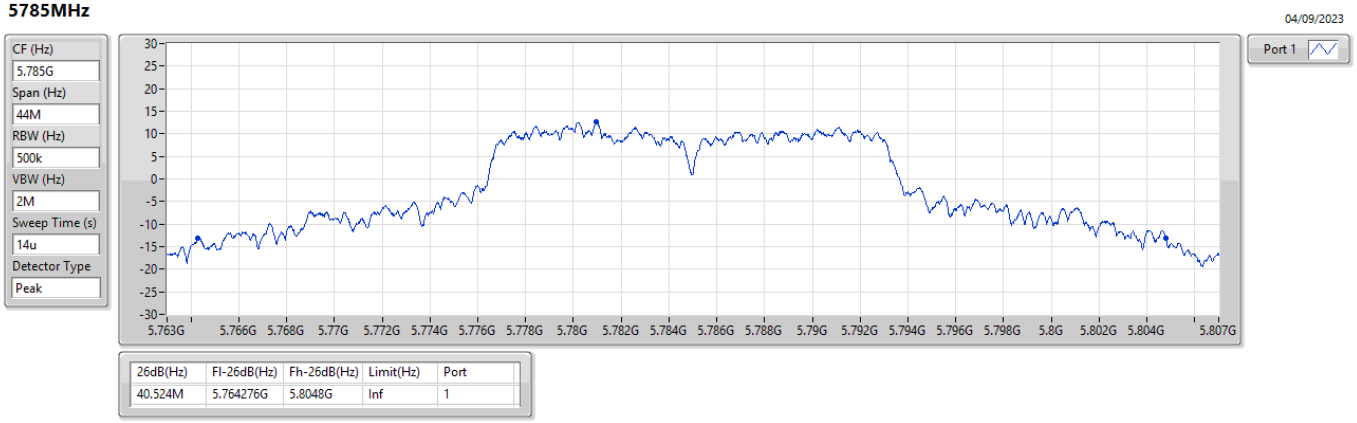
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.5M	5.776695G	5.793195G	26.053M	5.772145G	5.798198G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

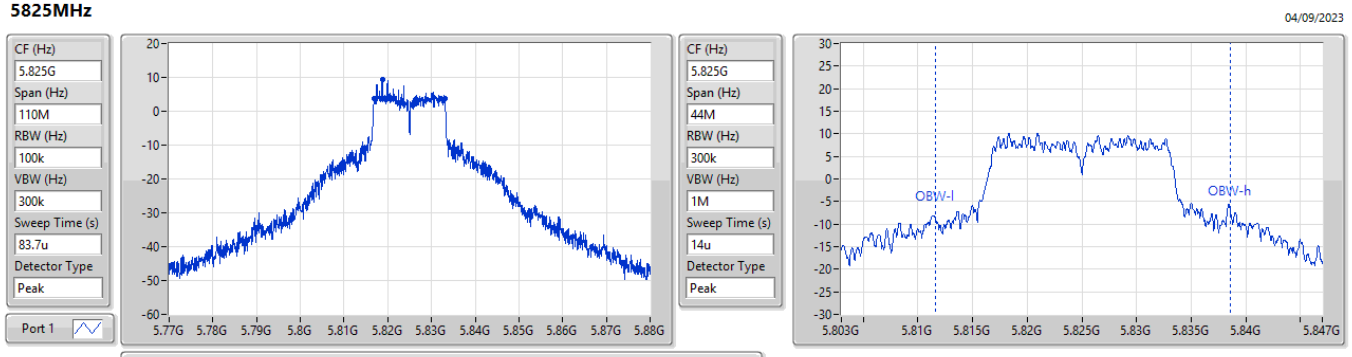
5785MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
40.524M	5.764276G	5.8048G	Inf	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

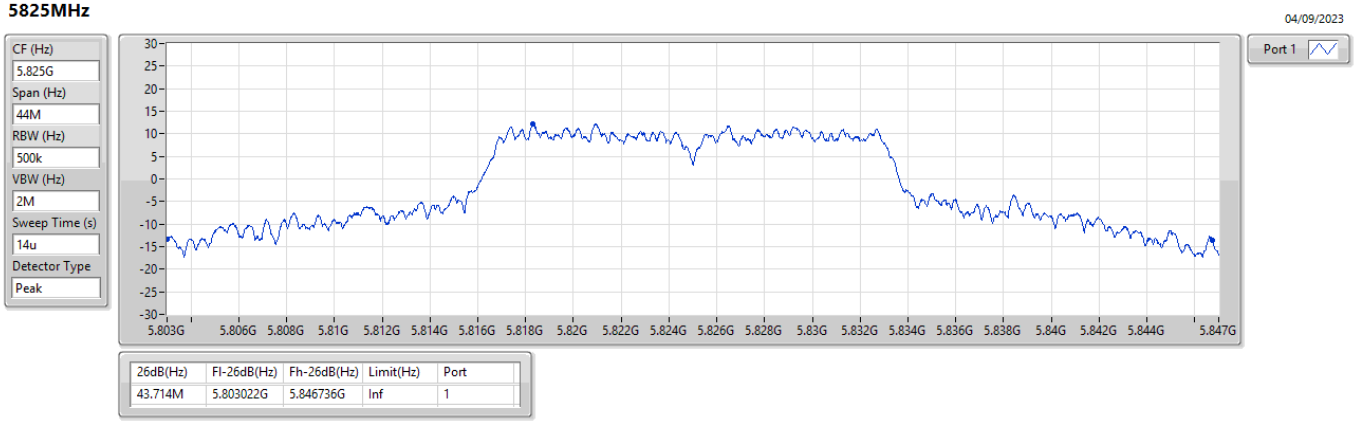
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.225M	5.81686G	5.833085G	27.004M	5.81159G	5.838594G	500k	1

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **EBW**

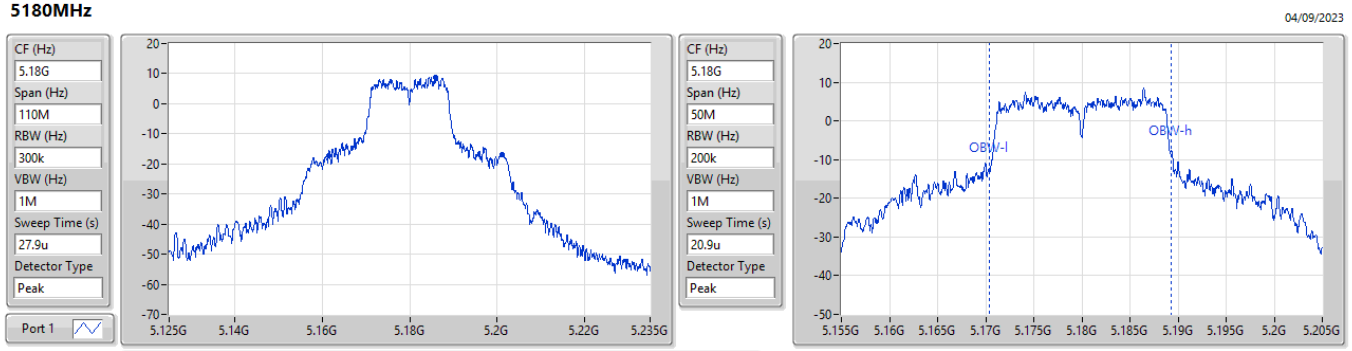
5825MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
43.714M	5.803022G	5.846736G	Inf	1

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5180MHz

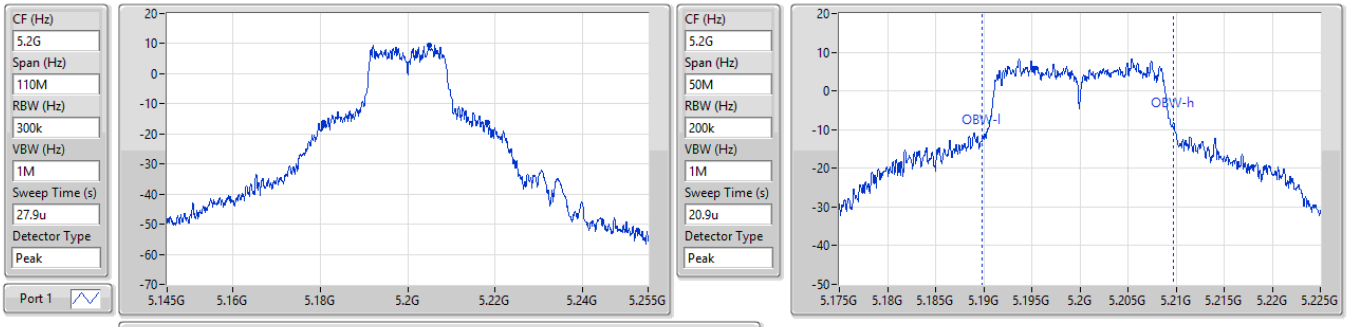


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
39.82M	5.16141G	5.20123G	18.962M	5.170373G	5.189335G	Inf	1

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5200MHz

04/09/2023

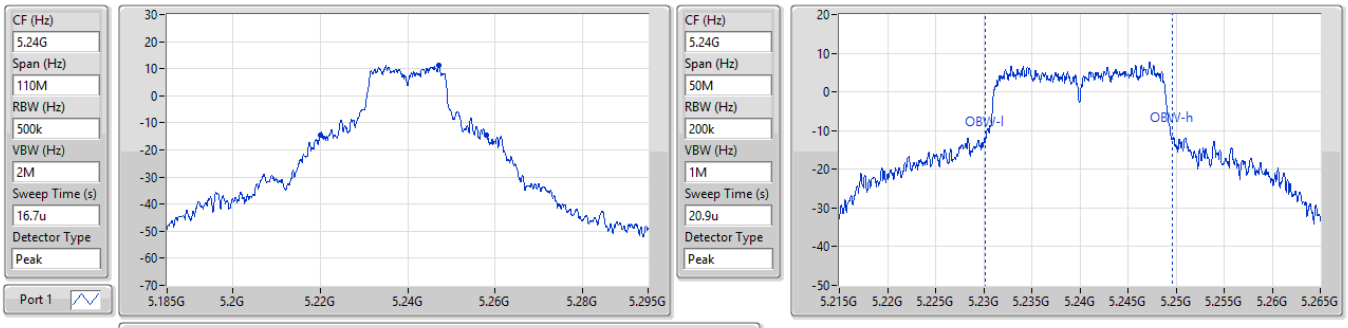


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.455M	5.18086G	5.218315G	19.946M	5.189819G	5.209765G	Inf	1

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5240MHz

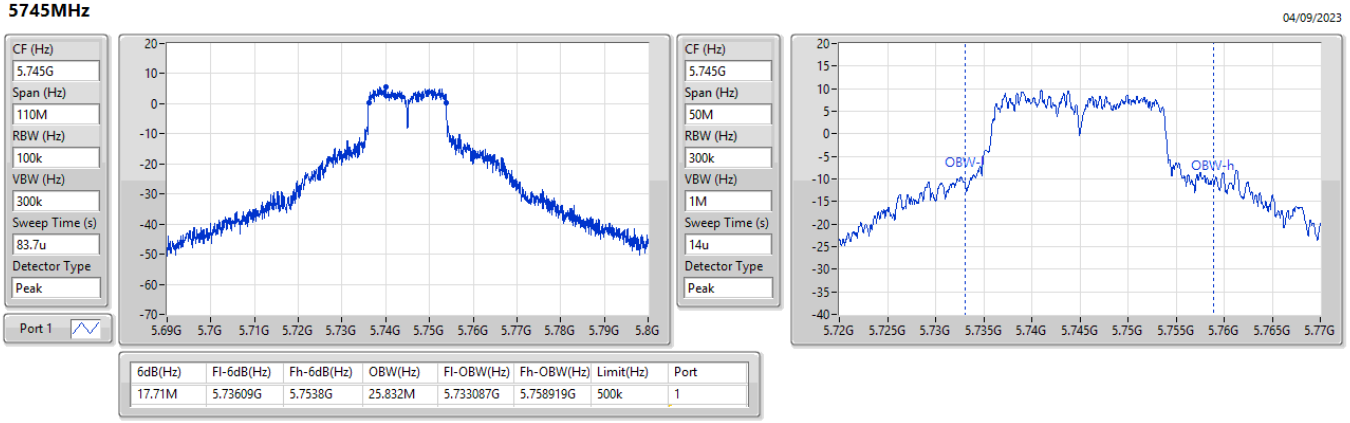
04/09/2023



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.005M	5.22009G	5.258095G	19.422M	5.230169G	5.249591G	Inf	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

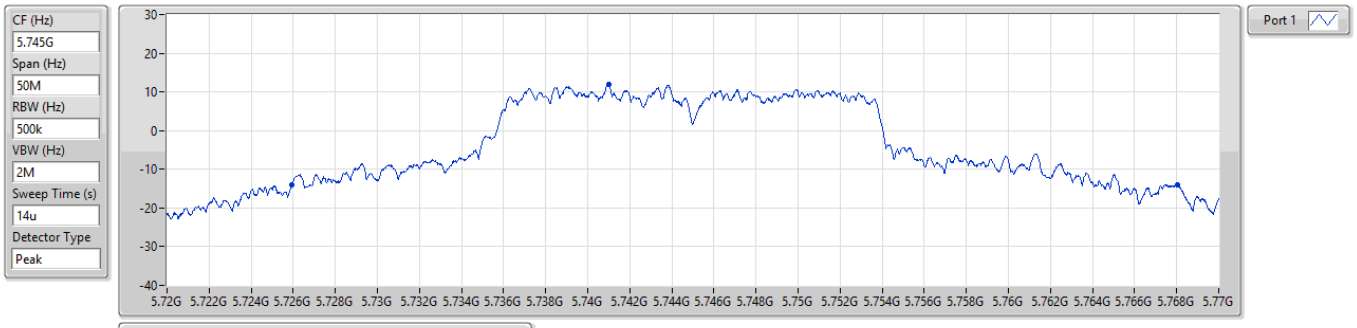
5745MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.71M	5.73609G	5.7538G	25.832M	5.733087G	5.758919G	500k	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

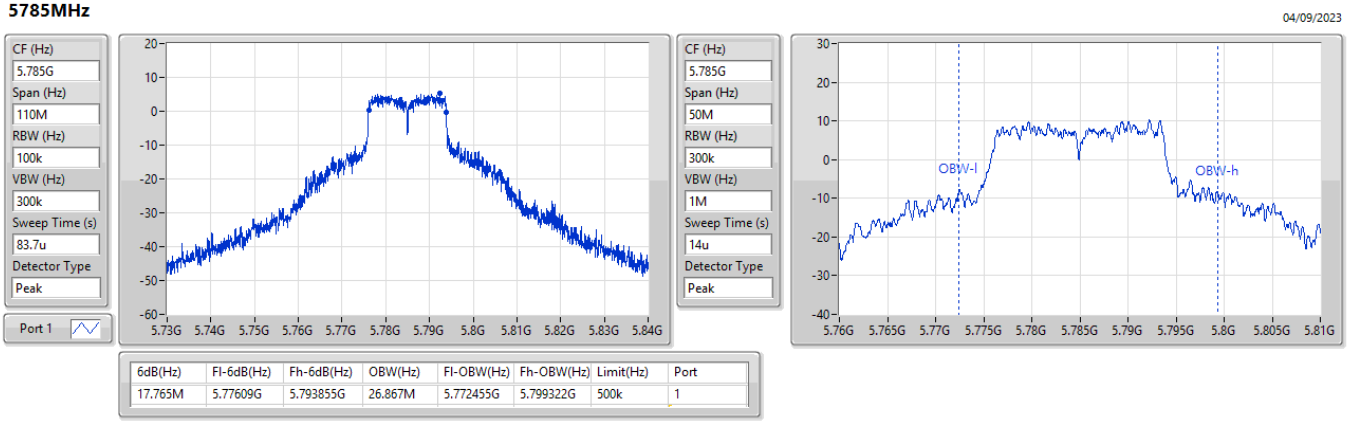
5745MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
42.1M	5.725925G	5.768025G	Inf	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

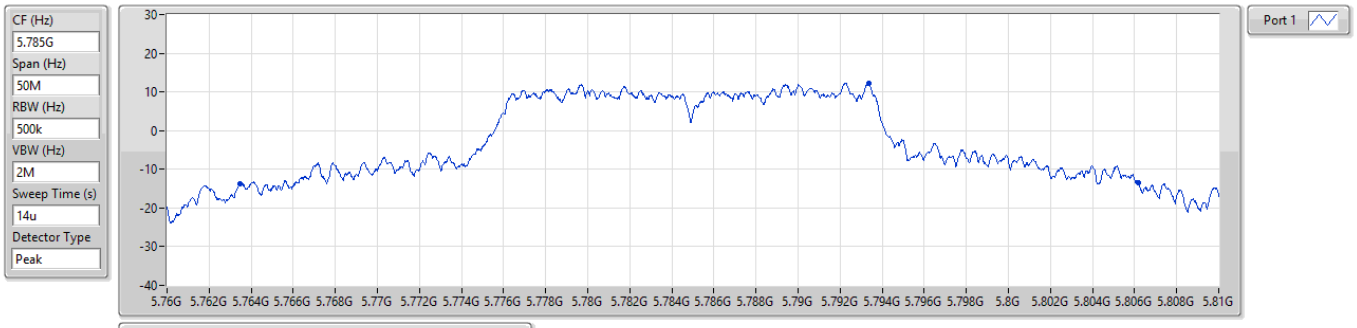
5785MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.765M	5.77609G	5.793855G	26.867M	5.772455G	5.799322G	500k	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

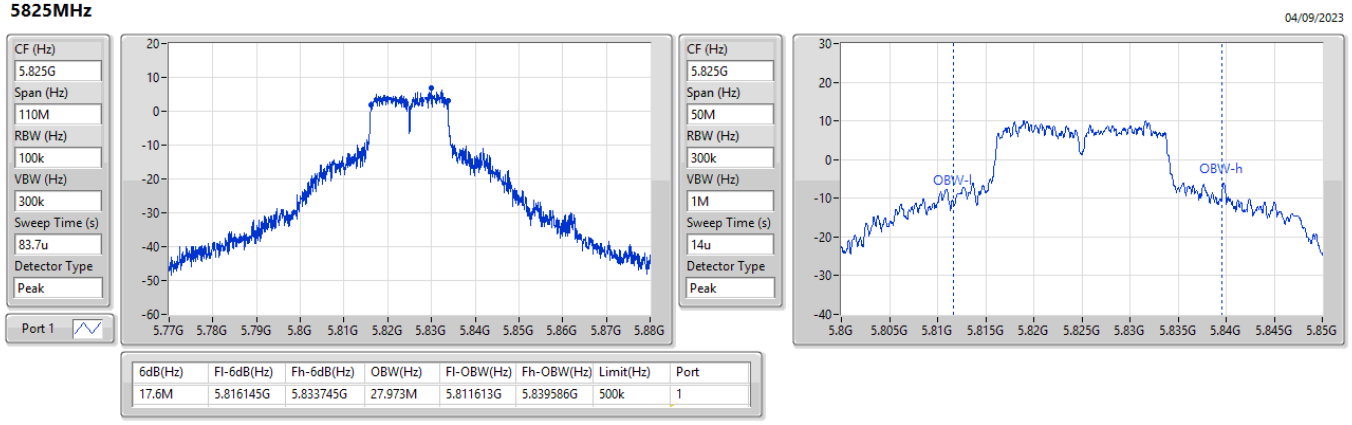
5785MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
42.7M	5.763475G	5.806175G	Inf	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

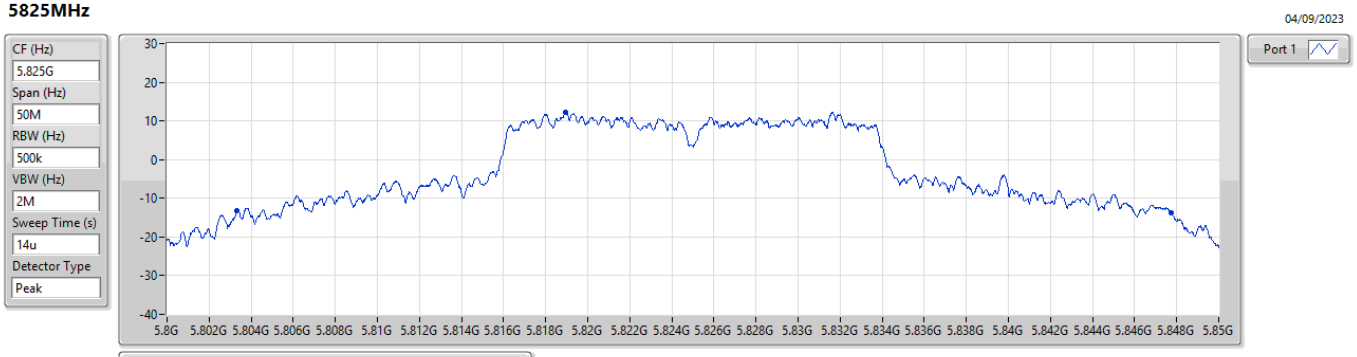
5825MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.6M	5.816145G	5.833745G	27.973M	5.811613G	5.839586G	500k	1

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **EBW**

5825MHz

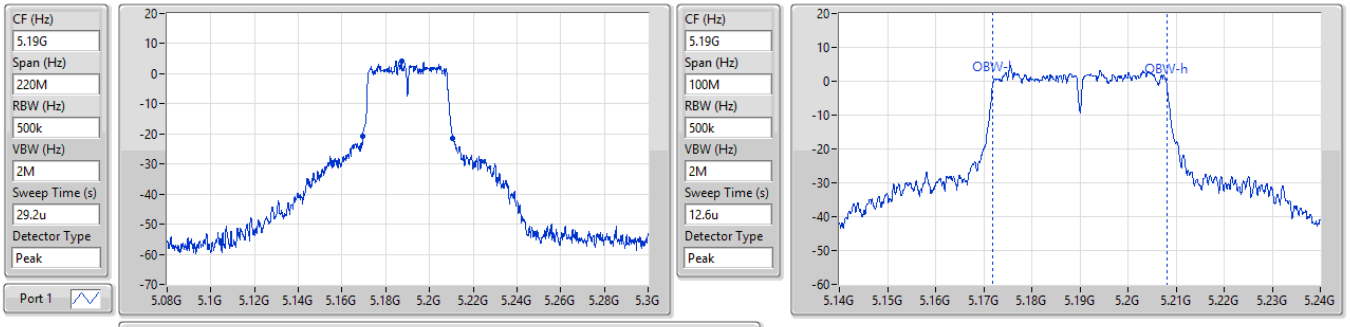


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
44.45M	5.8033G	5.84775G	Inf	1

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5190MHz

04/09/2023

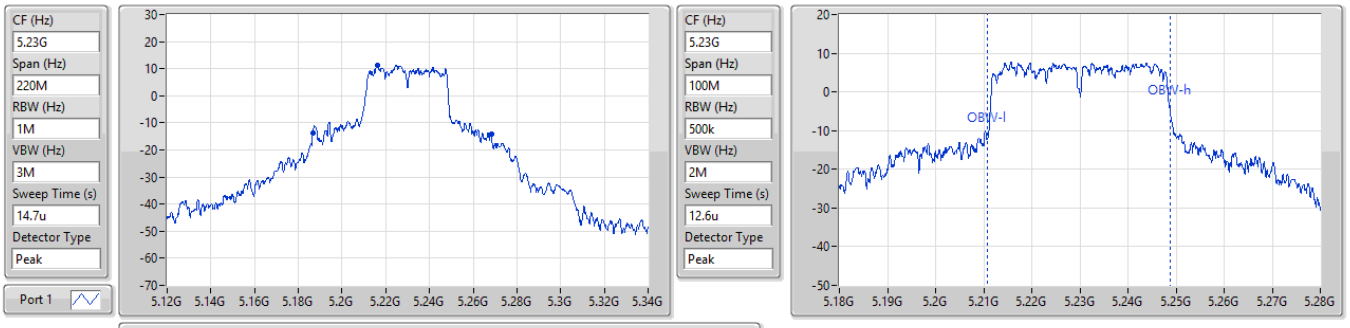


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
41.25M	5.16943G	5.21068G	36.368M	5.171804G	5.208171G	Inf	1

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

5230MHz

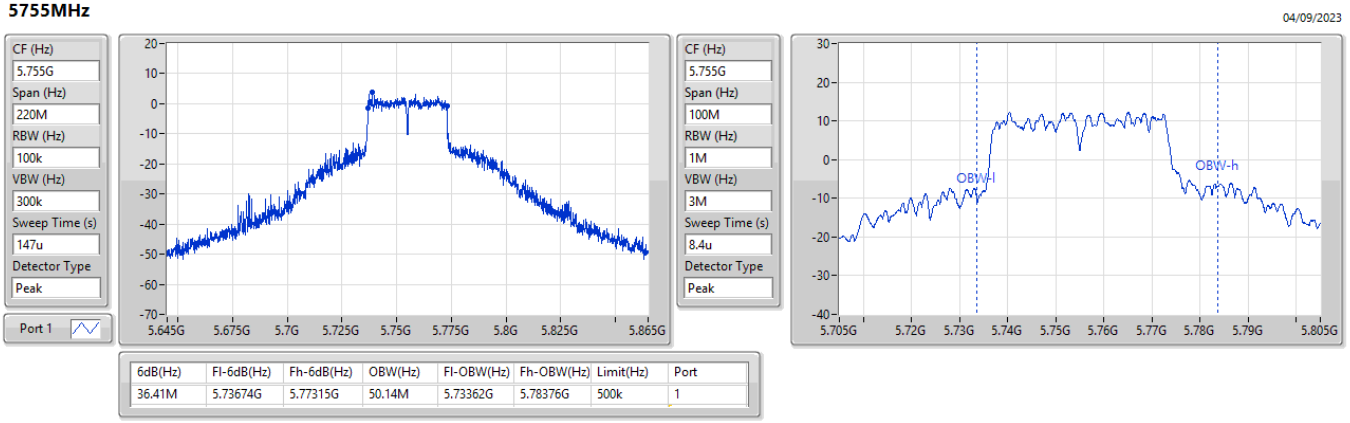
04/09/2023



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.73M	5.18655G	5.26828G	37.939M	5.210795G	5.248735G	Inf	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

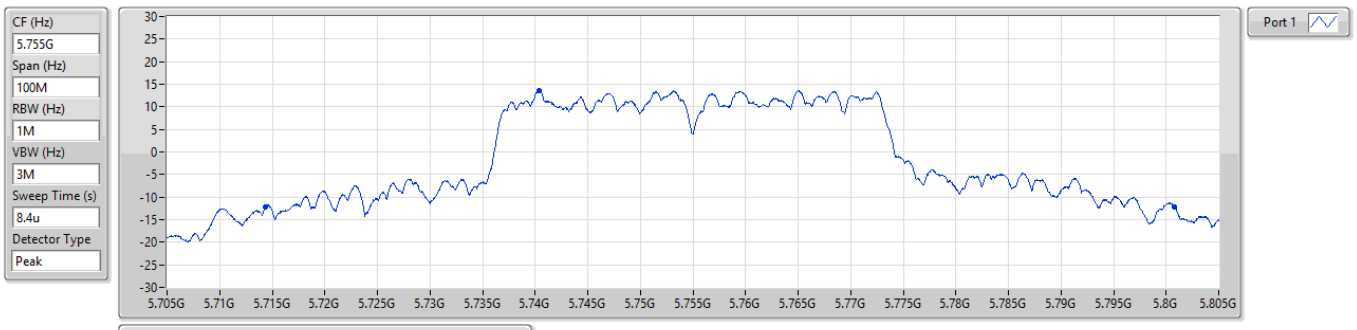
5755MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.41M	5.73674G	5.77315G	50.14M	5.73362G	5.78376G	500k	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

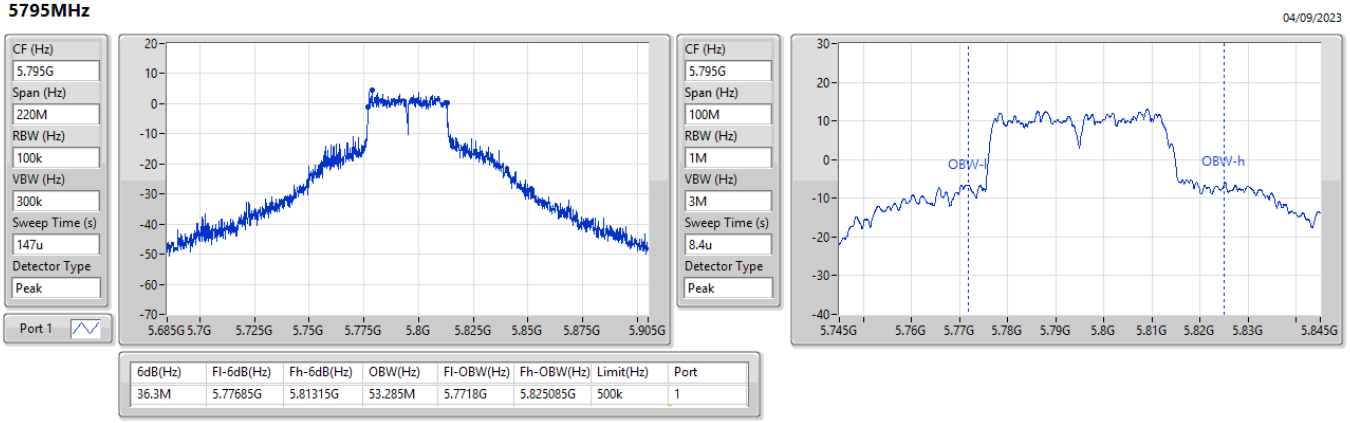
5755MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
86.4M	5.71435G	5.80075G	Inf	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

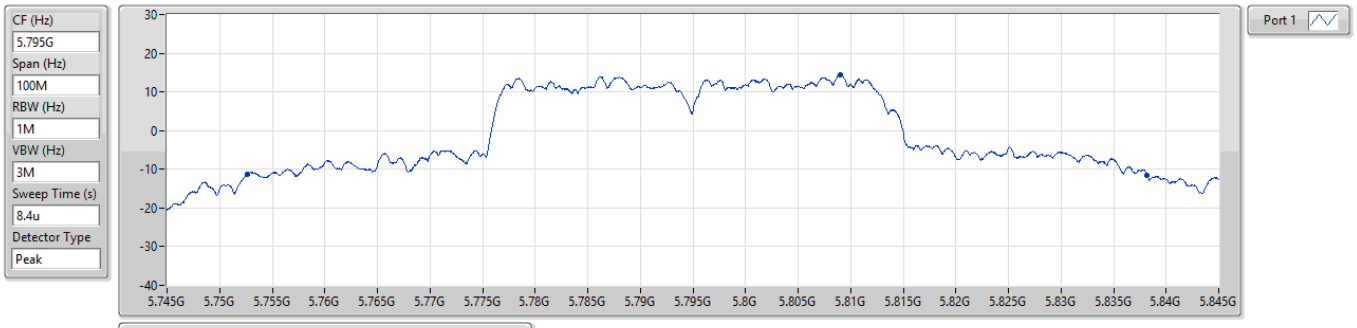
5795MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.3M	5.77685G	5.81315G	53.285M	5.7718G	5.825085G	500k	1

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **EBW**

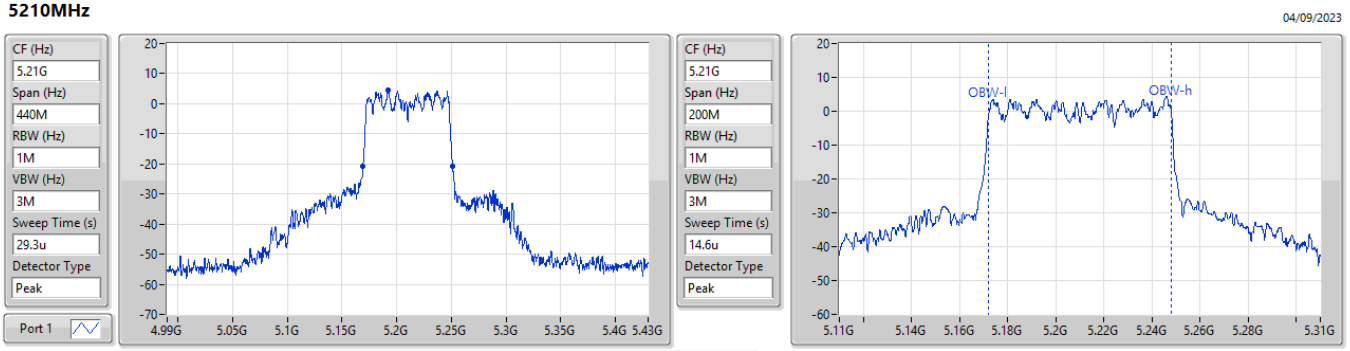
5795MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
85.6M	5.7526G	5.8382G	Inf	1

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

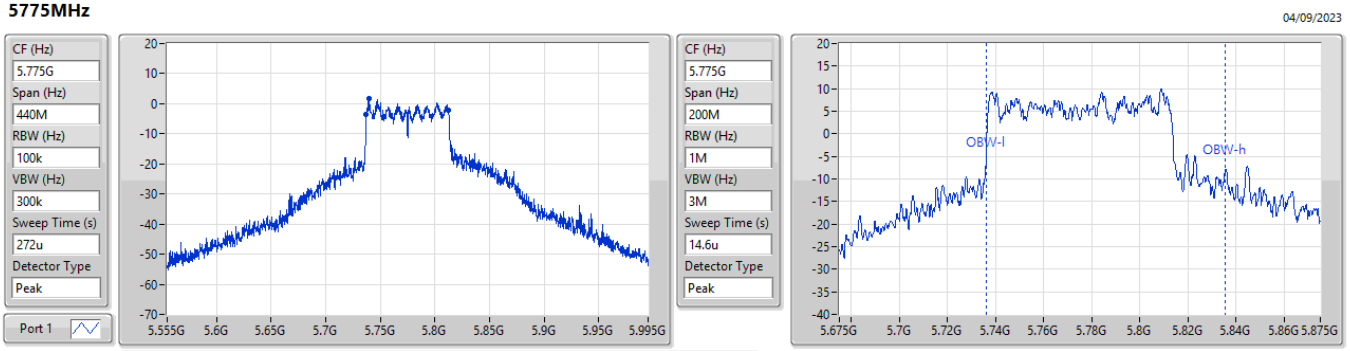
5210MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.06M	5.16908G	5.25114G	75.877M	5.172093G	5.24797G	Inf	1

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **EBW**

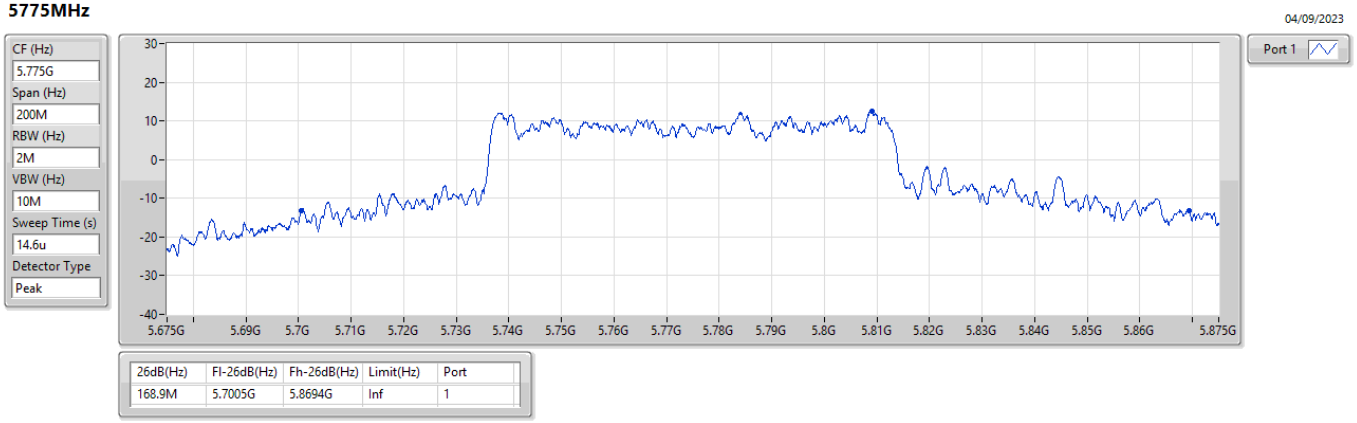
5775MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
75.46M	5.73716G	5.81262G	99.592M	5.735897G	5.835488G	500k	1

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX EBW

5775MHz



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	Limit(Hz)	Port
168.9M	5.7005G	5.8694G	Inf	1

Summary

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	18.87	0.07709
802.11ac VHT20_Nss1,(MCS0)_1TX	18.88	0.07727
802.11ac VHT40_Nss1,(MCS0)_1TX	18.95	0.07852
802.11ac VHT80_Nss1,(MCS0)_1TX	13.90	0.02455
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_1TX	19.85	0.09661
802.11ac VHT20_Nss1,(MCS0)_1TX	19.96	0.09908
802.11ac VHT40_Nss1,(MCS0)_1TX	19.90	0.09772
802.11ac VHT80_Nss1,(MCS0)_1TX	19.00	0.07943

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	3.13	18.16	18.16	23.98
5200MHz	Pass	3.13	18.87	18.87	23.98
5240MHz	Pass	3.13	18.77	18.77	23.98
5745MHz	Pass	4.41	19.60	19.60	30.00
5785MHz	Pass	4.41	19.85	19.85	30.00
5825MHz	Pass	4.41	19.79	19.79	30.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	3.13	18.64	18.64	23.98
5200MHz	Pass	3.13	18.86	18.86	23.98
5240MHz	Pass	3.13	18.88	18.88	23.98
5745MHz	Pass	4.41	19.60	19.60	30.00
5785MHz	Pass	4.41	19.77	19.77	30.00
5825MHz	Pass	4.41	19.96	19.96	30.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5190MHz	Pass	3.13	14.37	14.37	23.98
5230MHz	Pass	3.13	18.95	18.95	23.98
5755MHz	Pass	4.41	19.72	19.72	30.00
5795MHz	Pass	4.41	19.90	19.90	30.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5210MHz	Pass	3.13	13.90	13.90	23.98
5775MHz	Pass	4.41	19.00	19.00	30.00

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

Summary

Mode	PD (dBm/RBW)
5.15-5.25GHz	-
802.11a_Nss1,(6Mbps)_1TX	6.32
802.11ac VHT20_Nss1,(MCS0)_1TX	6.04
802.11ac VHT40_Nss1,(MCS0)_1TX	3.30
802.11ac VHT80_Nss1,(MCS0)_1TX	-3.42
5.725-5.85GHz	-
802.11a_Nss1,(6Mbps)_1TX	5.83
802.11ac VHT20_Nss1,(MCS0)_1TX	5.50
802.11ac VHT40_Nss1,(MCS0)_1TX	2.92
802.11ac VHT80_Nss1,(MCS0)_1TX	0.50

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

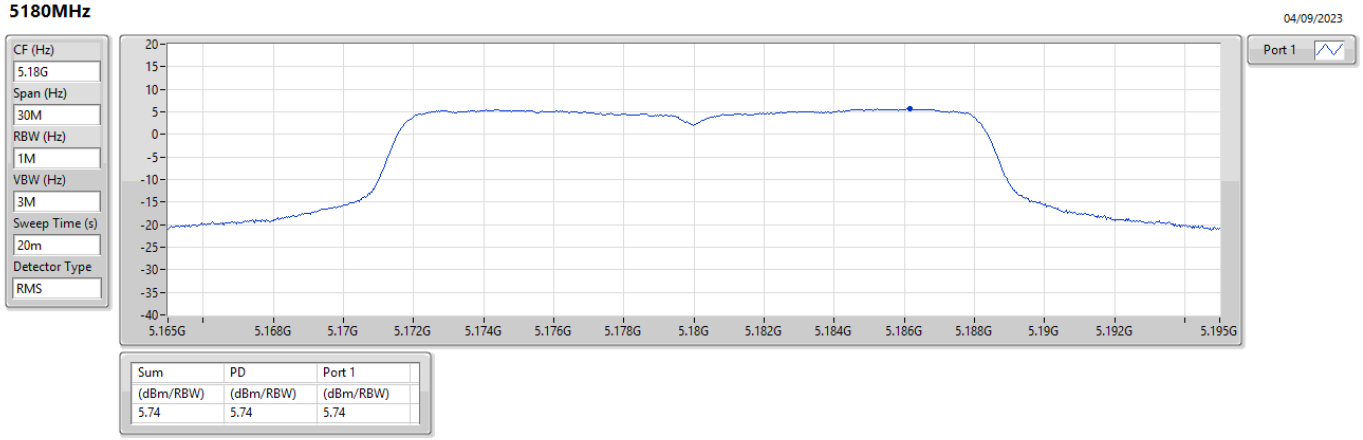
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-
5180MHz	Pass	3.13	5.74	5.74	11.00
5200MHz	Pass	3.13	6.32	6.32	11.00
5240MHz	Pass	3.13	6.15	6.15	11.00
5745MHz	Pass	4.41	5.40	5.40	30.00
5785MHz	Pass	4.41	5.67	5.67	30.00
5825MHz	Pass	4.41	5.83	5.83	30.00
802.11ac VHT20_Nss1,(MCS0)_1TX	-	-	-	-	-
5180MHz	Pass	3.13	5.91	5.91	11.00
5200MHz	Pass	3.13	6.03	6.03	11.00
5240MHz	Pass	3.13	6.04	6.04	11.00
5745MHz	Pass	4.41	5.27	5.27	30.00
5785MHz	Pass	4.41	5.48	5.48	30.00
5825MHz	Pass	4.41	5.50	5.50	30.00
802.11ac VHT40_Nss1,(MCS0)_1TX	-	-	-	-	-
5190MHz	Pass	3.13	-1.07	-1.07	11.00
5230MHz	Pass	3.13	3.30	3.30	11.00
5755MHz	Pass	4.41	2.58	2.58	30.00
5795MHz	Pass	4.41	2.92	2.92	30.00
802.11ac VHT80_Nss1,(MCS0)_1TX	-	-	-	-	-
5210MHz	Pass	3.13	-3.42	-3.42	11.00
5775MHz	Pass	4.41	0.50	0.50	30.00

DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

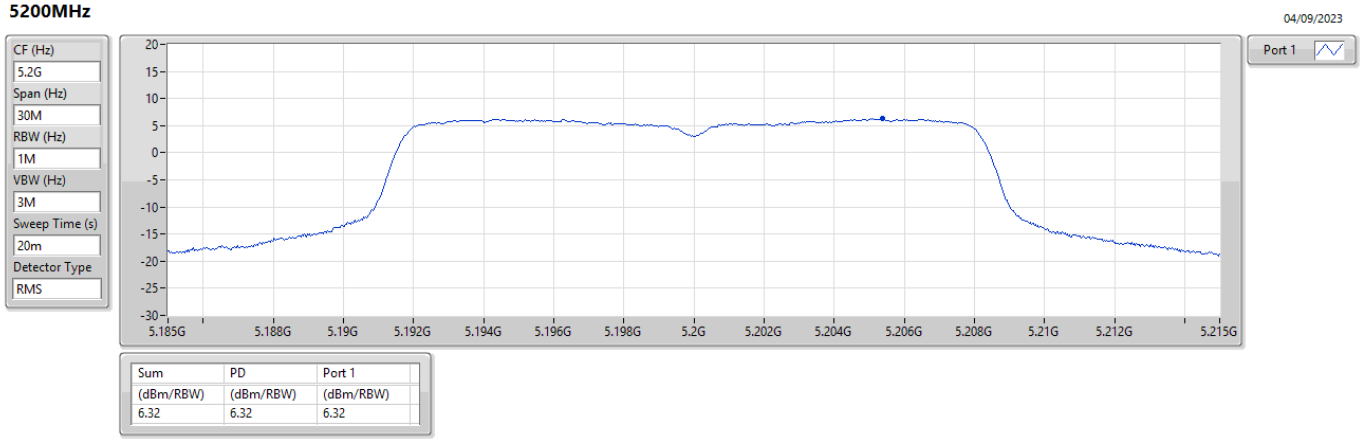
5180MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.74	5.74	5.74

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

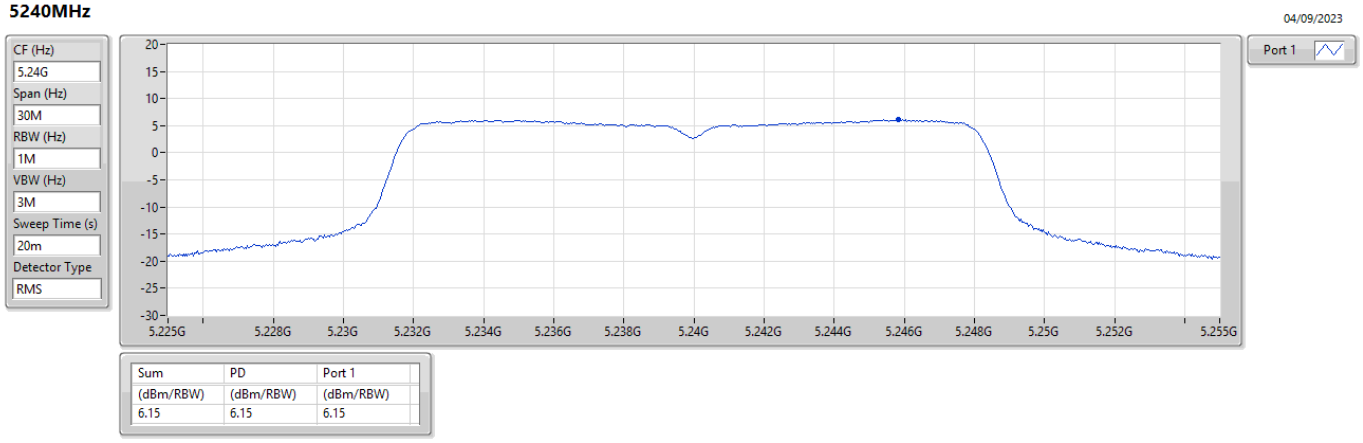
5200MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.32	6.32	6.32

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

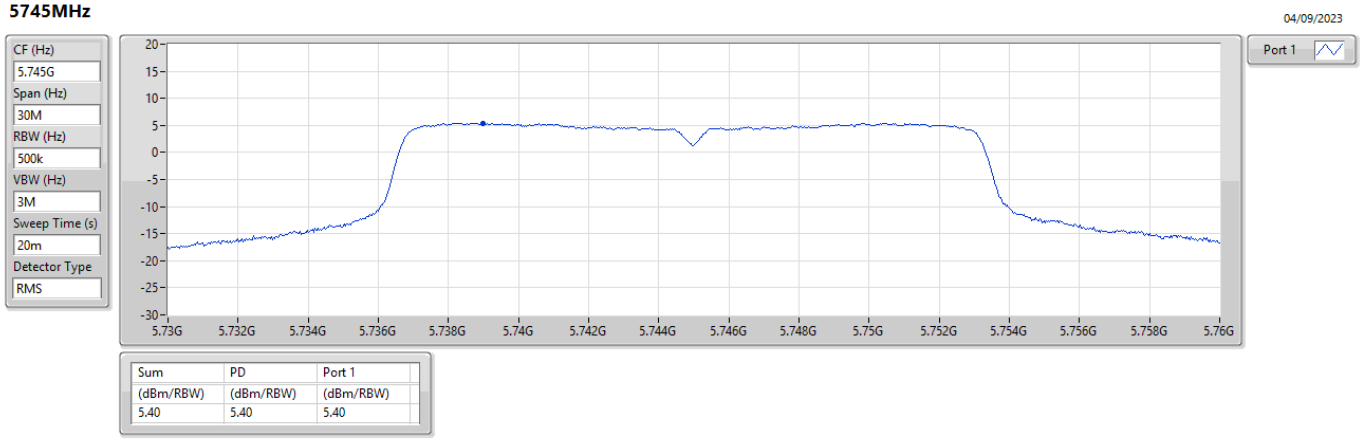
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.15	6.15	6.15

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5745MHz



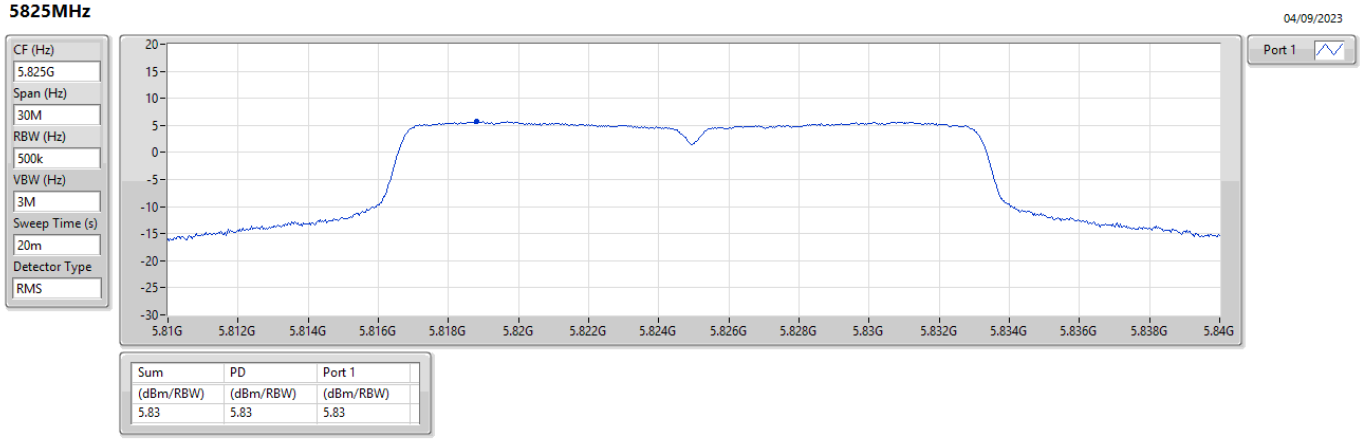
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.40	5.40	5.40

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5785MHz

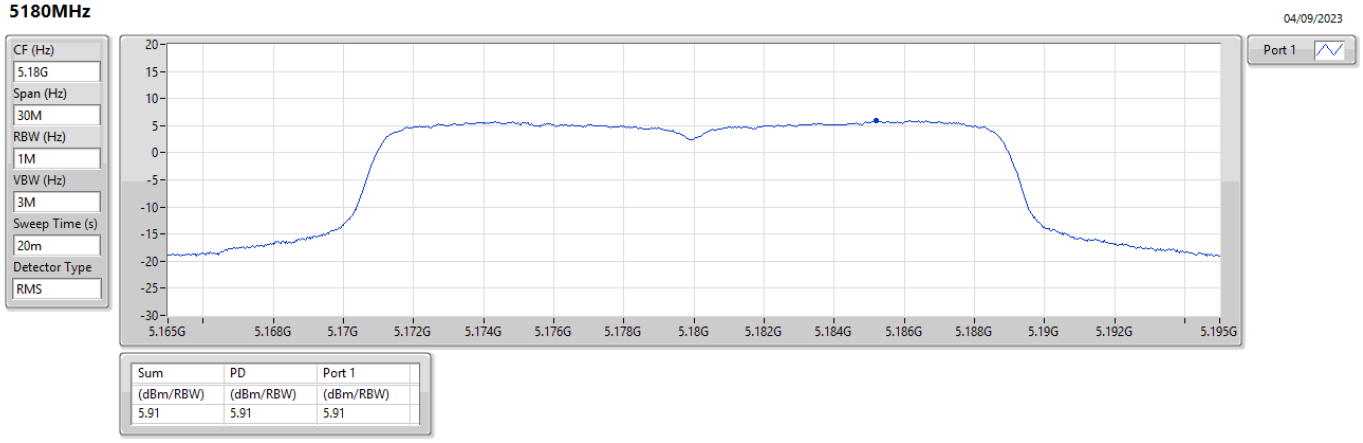
5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX **PSD**

5825MHz



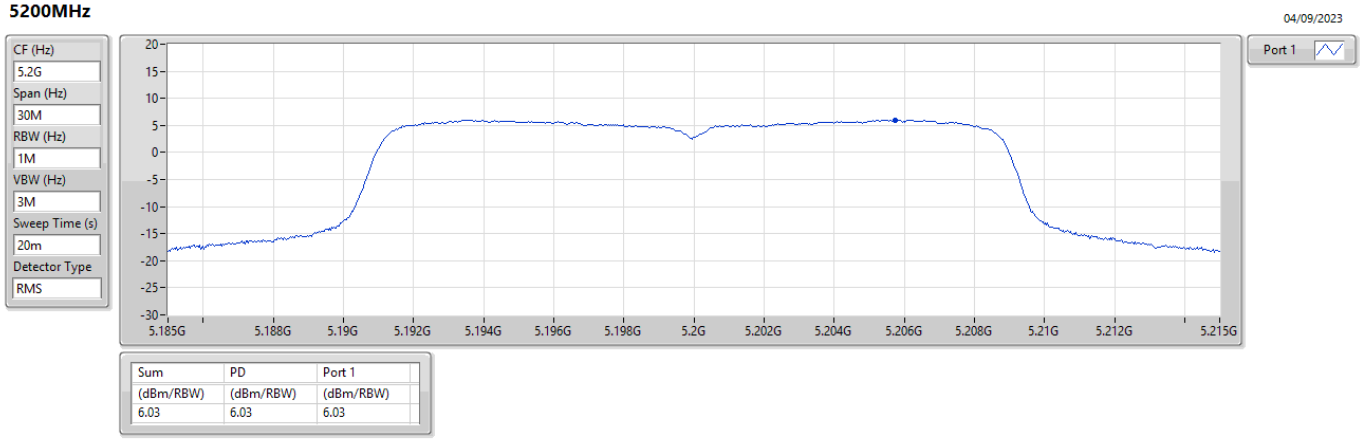
5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

5180MHz



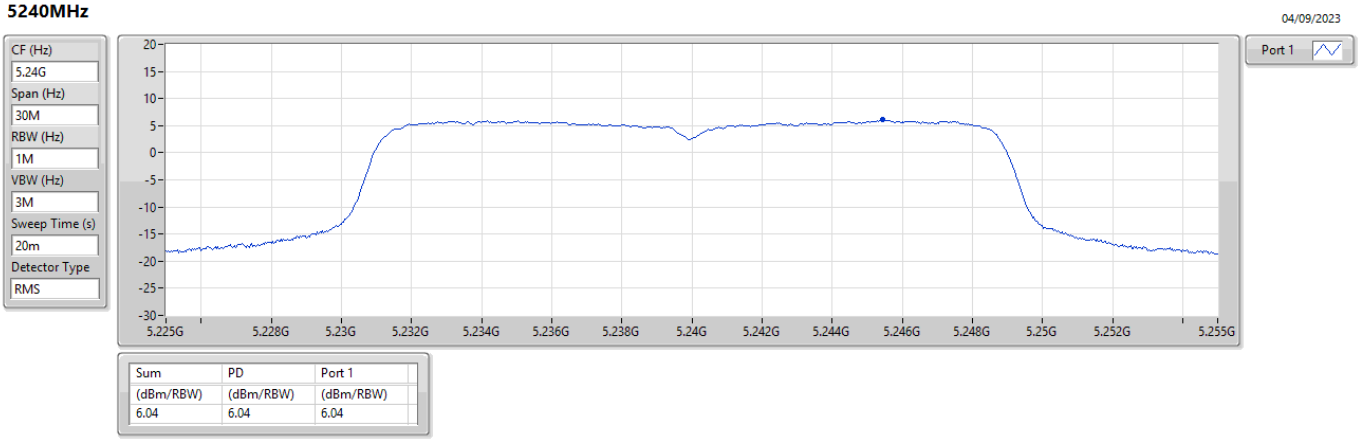
5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

5200MHz



5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

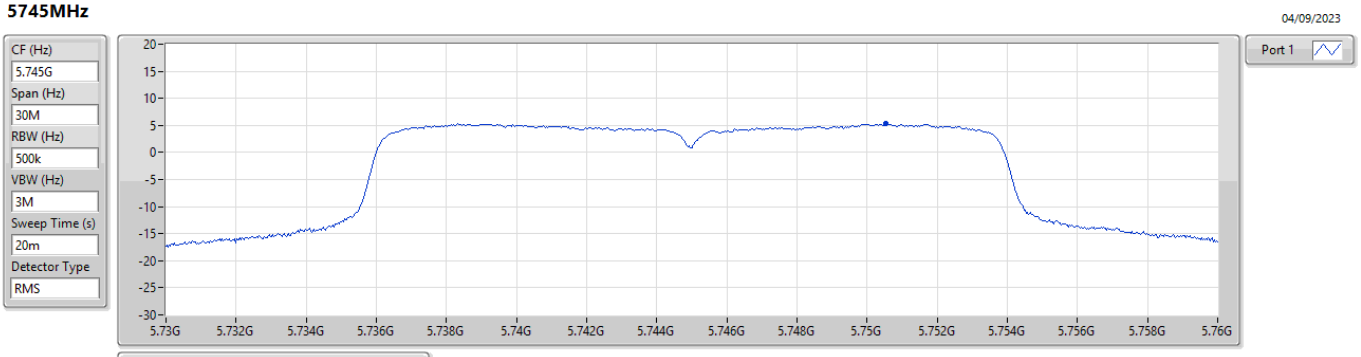
5240MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
6.04	6.04	6.04

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

5745MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.27	5.27	5.27

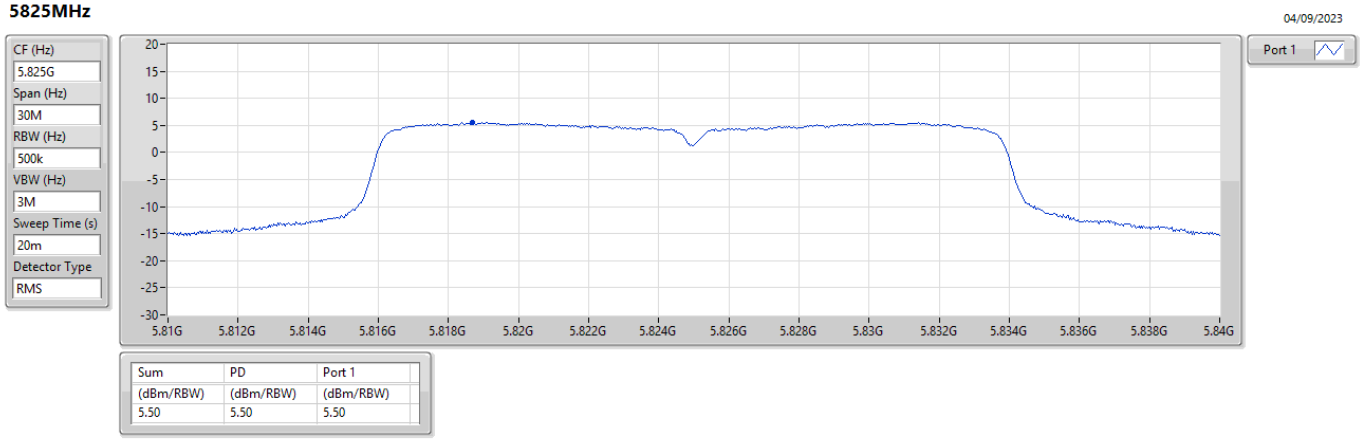
5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

5785MHz

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.48	5.48	5.48

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX **PSD**

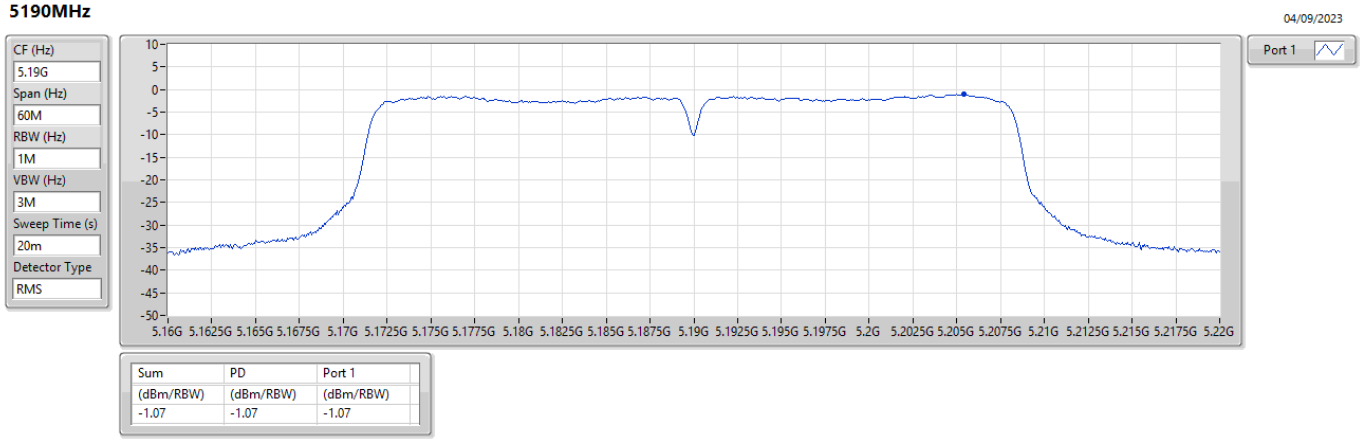
5825MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.50	5.50	5.50

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

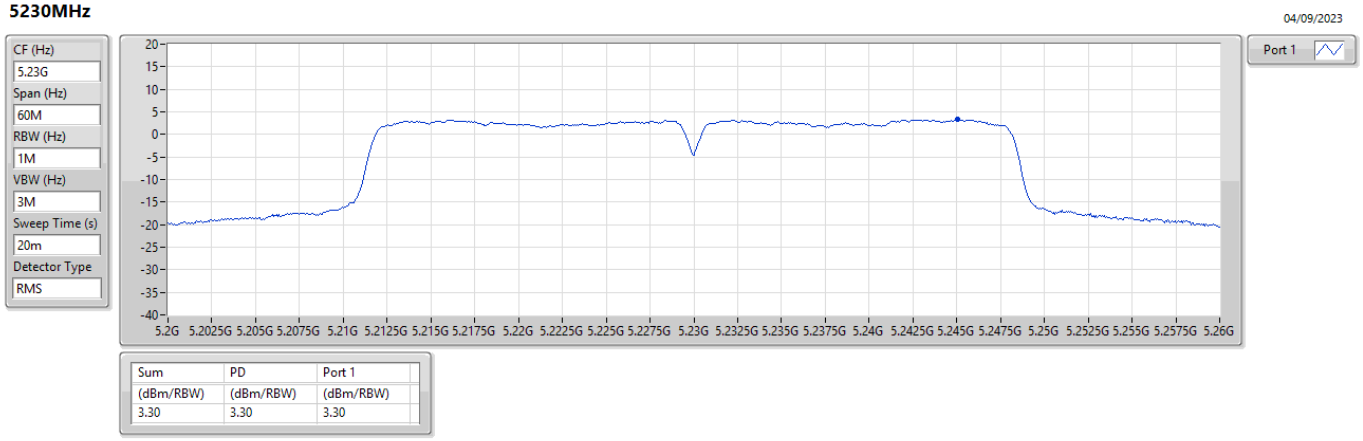
5190MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.07	-1.07	-1.07

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

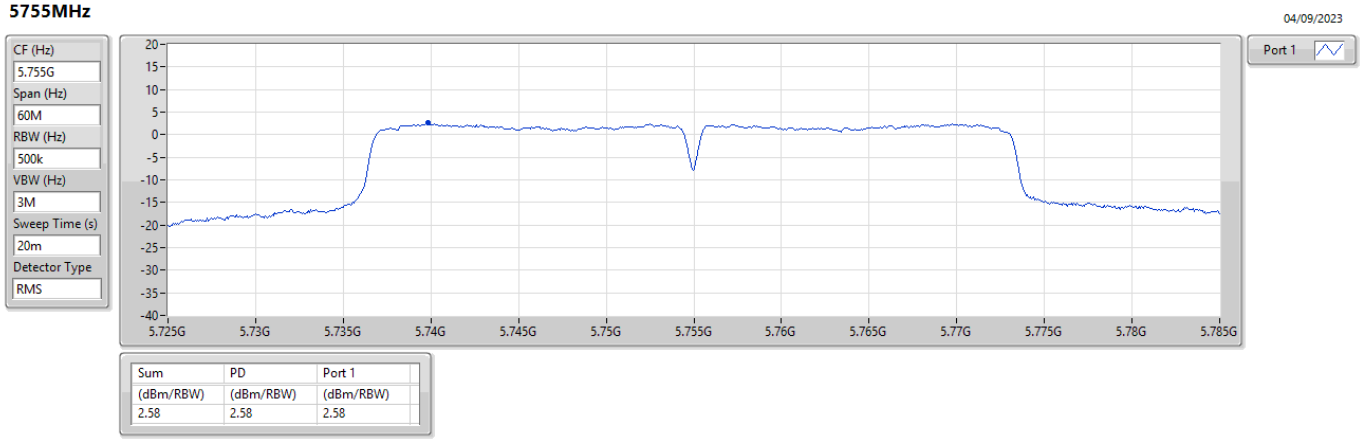
5230MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.30	3.30	3.30

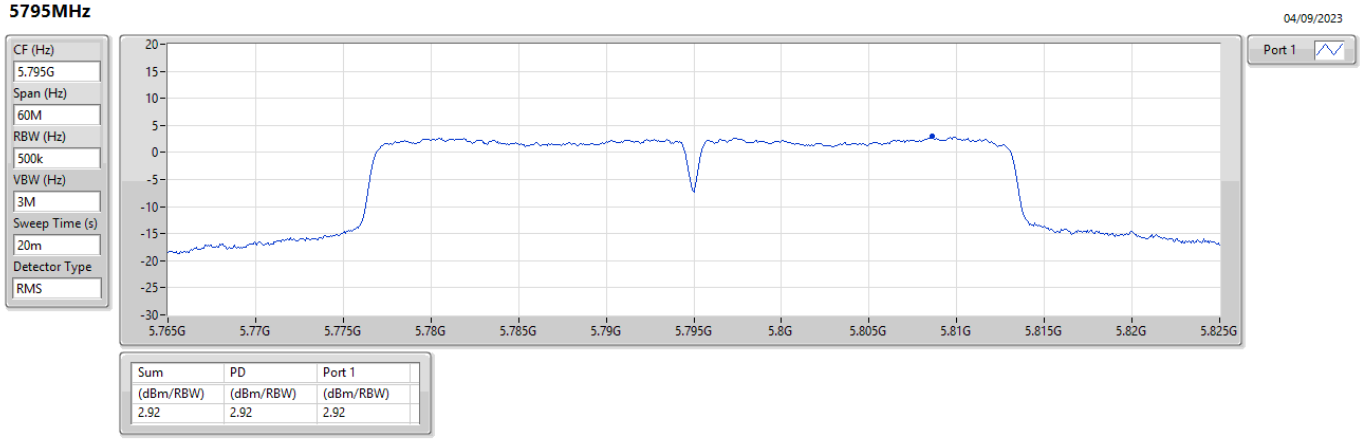
5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

5755MHz



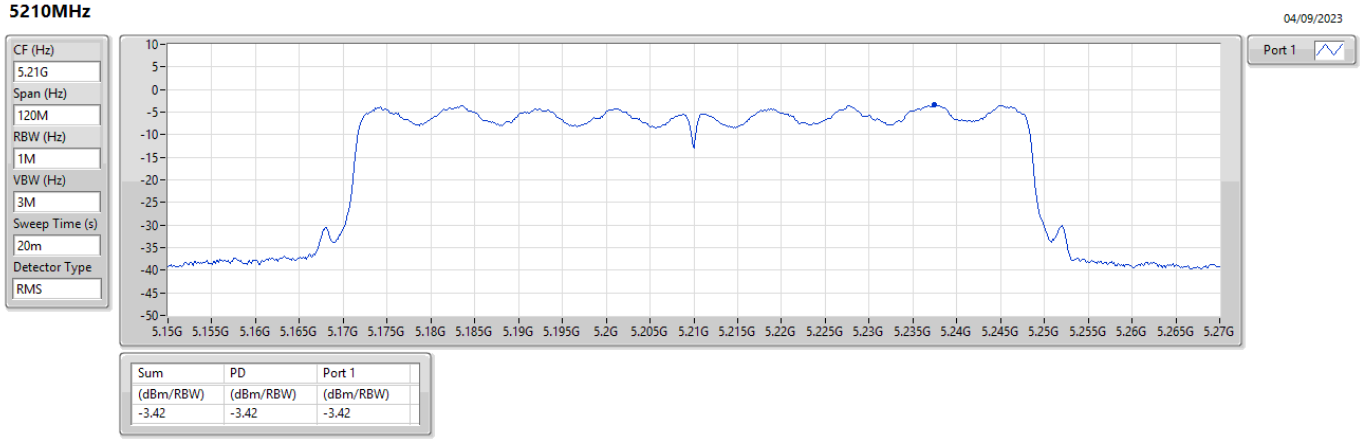
5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX **PSD**

5795MHz



5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

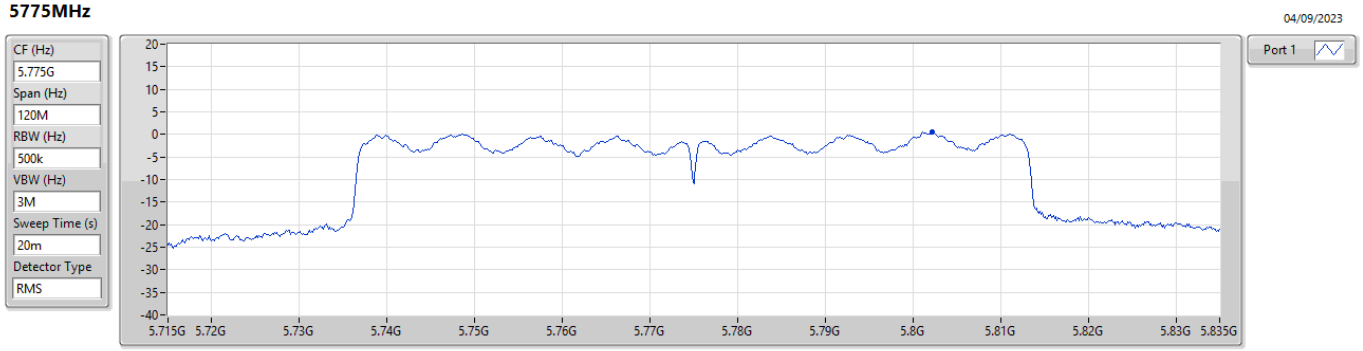
5210MHz



Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.42	-3.42	-3.42

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX **PSD**

5775MHz

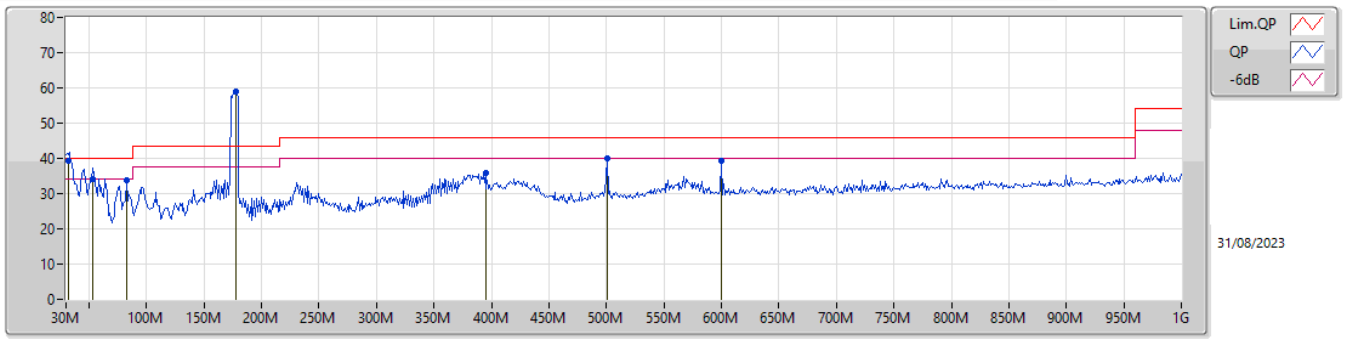


Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.50	0.50	0.50

Summary

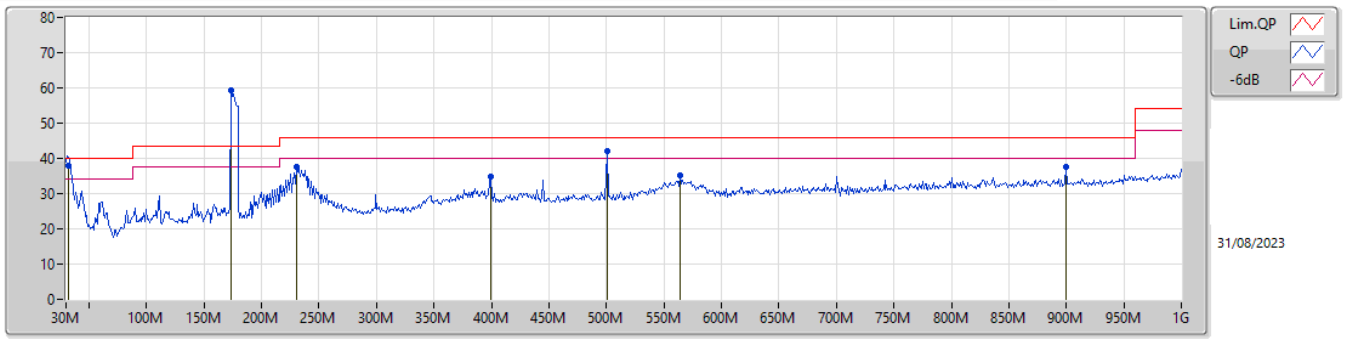
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	31.94M	39.46	40.00	-0.54	Vertical

Mode 3



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	31.94M	39.46	40.00	-0.54	-3.75	3	Vertical	0	3.00	"Worst"	43.21	24.00	0.76	28.51
QP	53.28M	34.04	40.00	-5.96	-14.46	3	Vertical	12	1.25	-	48.50	13.19	0.96	28.61
PK	82.38M	33.85	40.00	-6.15	-13.98	3	Vertical	65	1.00	-	47.83	13.44	1.18	28.60
PK	177.44M	59.00	-	-	-11.33	3	Vertical	3	1.50	-	70.33	15.14	1.72	28.19
PK	394.72M	35.76	46.00	-10.24	-4.57	3	Vertical	222	1.00	-	40.33	21.48	2.59	28.64
PK	500.45M	40.08	46.00	-5.92	-3.03	3	Vertical	359	2.00	-	43.11	23.35	2.96	29.34
PK	600.36M	39.34	46.00	-6.66	-1.37	3	Vertical	69	1.25	-	40.71	24.76	3.21	29.34

Mode 3



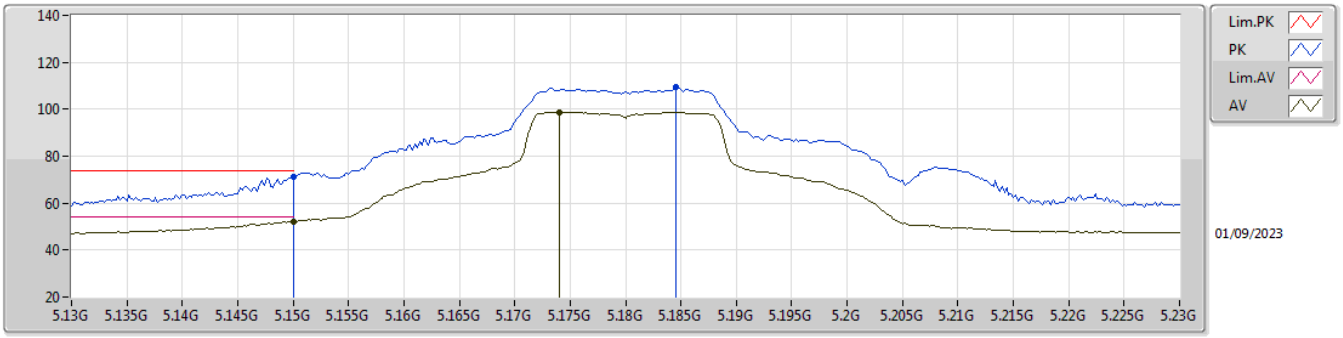
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	31.94M	37.76	40.00	-2.24	-3.75	3	Horizontal	161	3.00	"Worst"	41.51	24.00	0.76	28.51
PK	173.56M	59.24	-	-	-11.15	3	Horizontal	120	1.25	-	70.39	15.37	1.70	28.22
PK	230.79M	37.73	46.00	-8.27	-9.84	3	Horizontal	358	1.25	-	47.57	16.12	1.99	27.95
PK	399.57M	34.73	46.00	-11.27	-4.34	3	Horizontal	313	1.00	-	39.07	21.73	2.61	28.68
PK	500.45M	42.05	46.00	-3.95	-3.03	3	Horizontal	274	1.00	-	45.08	23.35	2.96	29.34
PK	564.47M	35.27	46.00	-10.73	-1.40	3	Horizontal	159	1.50	-	36.67	24.80	3.16	29.36
PK	900.09M	37.59	46.00	-8.41	1.68	3	Horizontal	336	1.25	-	35.91	26.46	3.99	28.77

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT40_Nss1,(MCS0)_1TX	Pass	AV	5.1492G	53.96	54.00	-0.04	3	Vertical	257	2.44	-

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

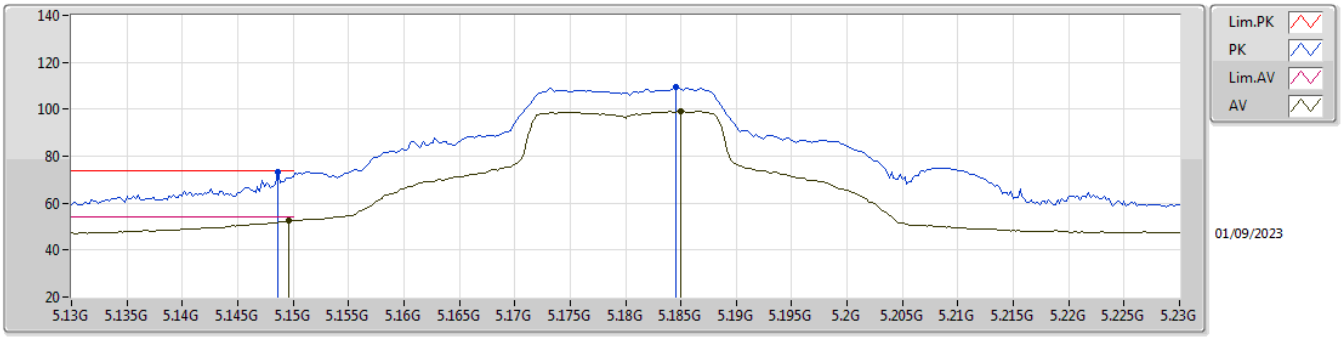


EUT Z_1TX
Setting 61
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.15G	71.09	74.00	-2.91	65.09	3	Vertical	257	2.45	-	34.10	6.75	34.85
AV	5.15G	52.31	54.00	-1.69	46.31	3	Vertical	257	2.45	-	34.10	6.75	34.85
PK	5.1846G	109.37	Inf	-Inf	103.42	3	Vertical	257	2.45	-	34.03	6.78	34.86
AV	5.174G	98.82	Inf	-Inf	92.85	3	Vertical	257	2.45	-	34.05	6.77	34.85

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

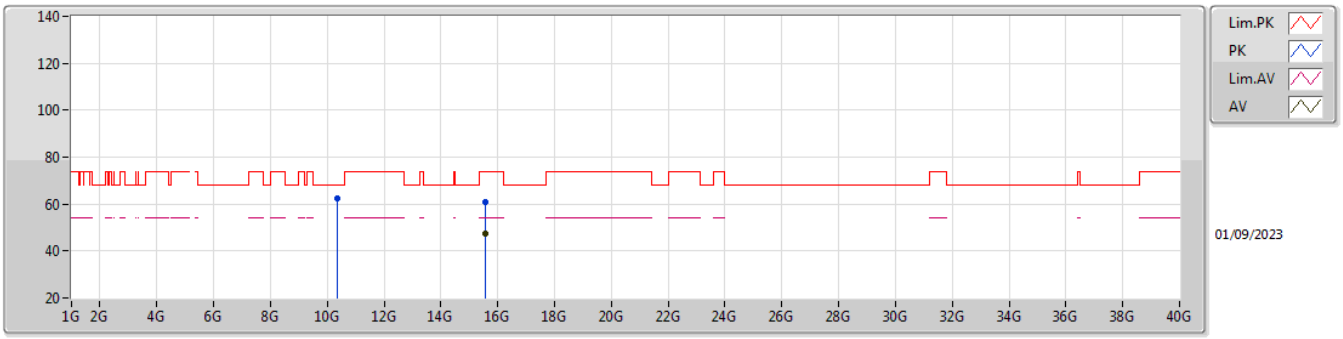


EUT Z_1TX
Setting 61
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1486G	73.25	74.00	-0.75	67.25	3	Horizontal	326	1.11	-	34.10	6.75	34.85
AV	5.1496G	52.50	54.00	-1.50	46.50	3	Horizontal	326	1.11	-	34.10	6.75	34.85
PK	5.1846G	109.72	Inf	-Inf	103.77	3	Horizontal	326	1.11	-	34.03	6.78	34.86
AV	5.185G	99.05	Inf	-Inf	93.09	3	Horizontal	326	1.11	-	34.03	6.79	34.86

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

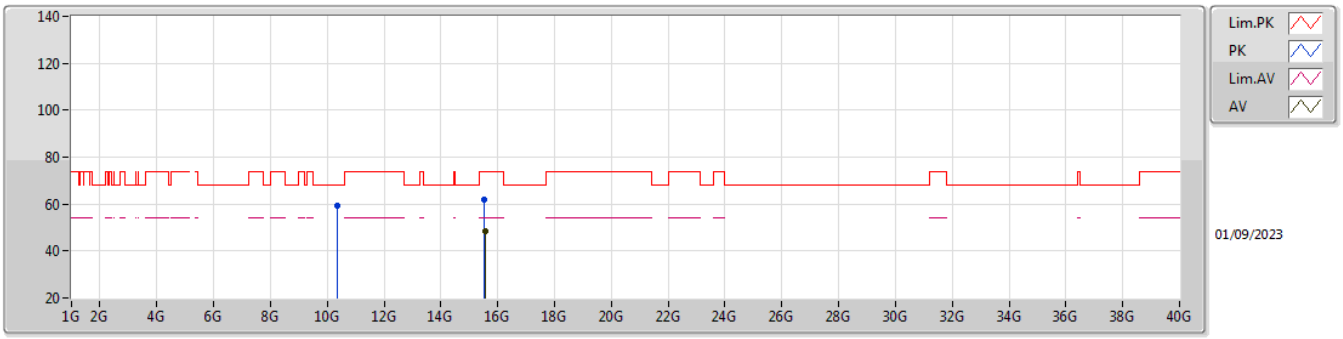


EUT Z_1TX
Setting 61
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.35796G	62.26	68.20	-5.94	77.98	3	Vertical	358	2.87	-	37.86	12.20	65.78
PK	15.54582G	60.89	74.00	-13.11	68.49	3	Vertical	141	2.38	-	38.22	16.25	62.07
AV	15.546G	47.41	54.00	-6.59	55.01	3	Vertical	141	2.38	-	38.22	16.25	62.07

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5180MHz_TX

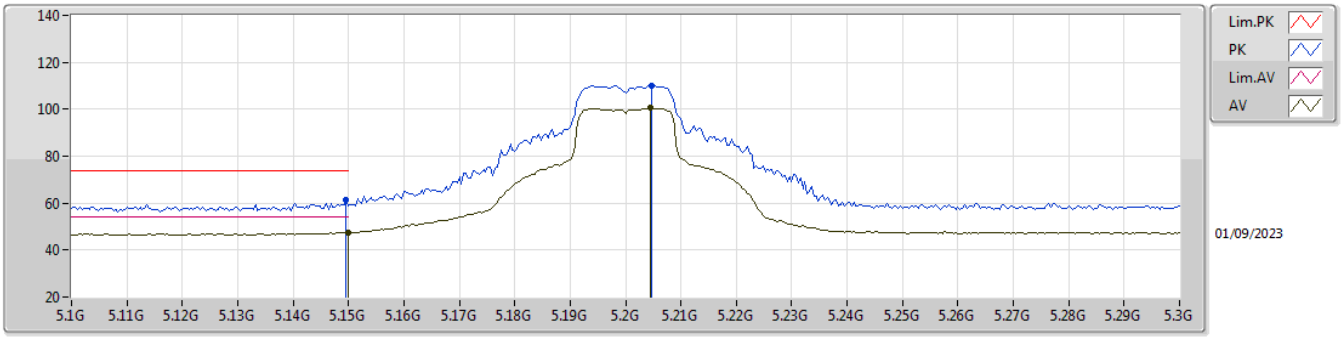


EUT Z_1TX
Setting 61
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.36006G	59.36	68.20	-8.84	75.07	3	Horizontal	134	2.95	-	37.86	12.20	65.77
PK	15.54186G	61.69	74.00	-12.31	69.29	3	Horizontal	360	2.01	-	38.23	16.24	62.07
AV	15.54594G	48.57	54.00	-5.43	56.17	3	Horizontal	360	2.01	-	38.22	16.25	62.07

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

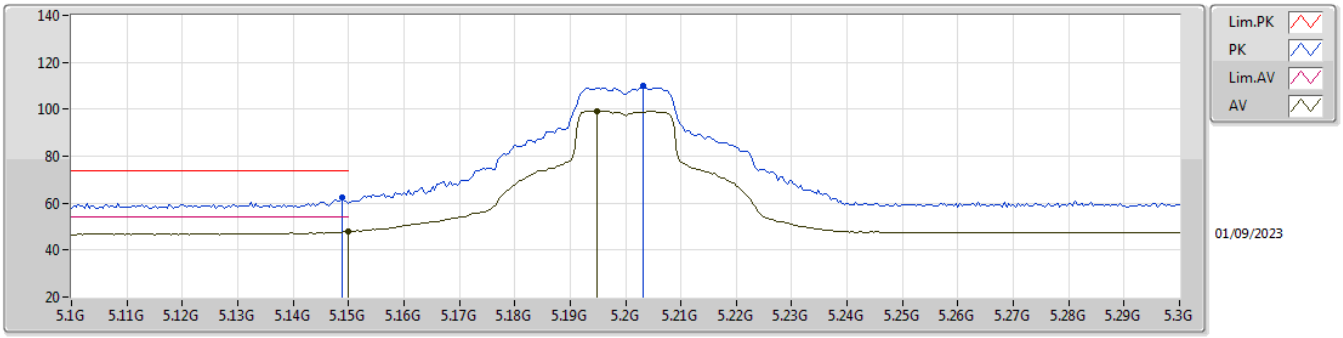


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1496G	61.13	74.00	-12.87	55.13	3	Vertical	325	2.72	-	34.10	6.75	34.85
AV	5.15G	47.51	54.00	-6.49	41.51	3	Vertical	325	2.72	-	34.10	6.75	34.85
PK	5.2048G	110.25	Inf	-Inf	104.31	3	Vertical	325	2.72	-	34.00	6.80	34.86
AV	5.2044G	100.46	Inf	-Inf	94.52	3	Vertical	325	2.72	-	34.00	6.80	34.86

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

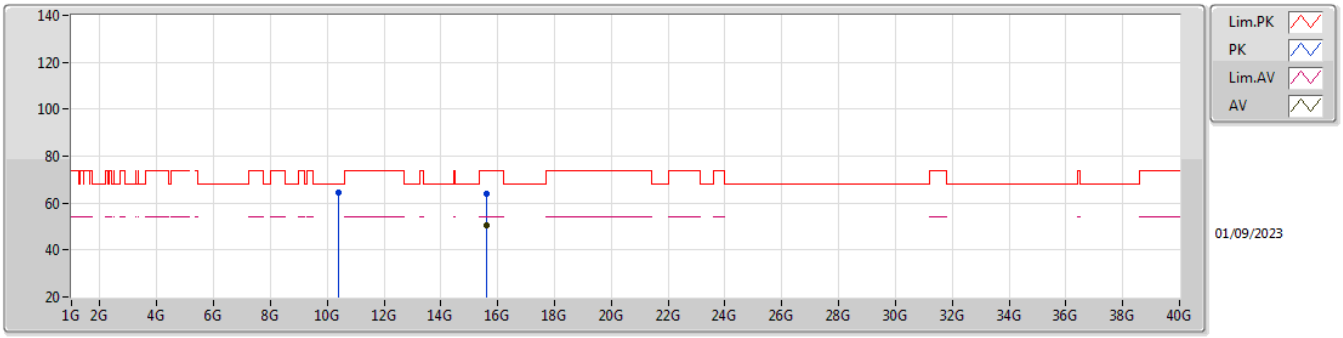


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1488G	62.32	74.00	-11.68	56.32	3	Horizontal	325	1.06	-	34.10	6.75	34.85
AV	5.15G	47.79	54.00	-6.21	41.79	3	Horizontal	325	1.06	-	34.10	6.75	34.85
PK	5.2032G	109.80	Inf	-Inf	103.86	3	Horizontal	325	1.06	-	34.00	6.80	34.86
AV	5.1948G	99.33	Inf	-Inf	93.39	3	Horizontal	325	1.06	-	34.01	6.79	34.86

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

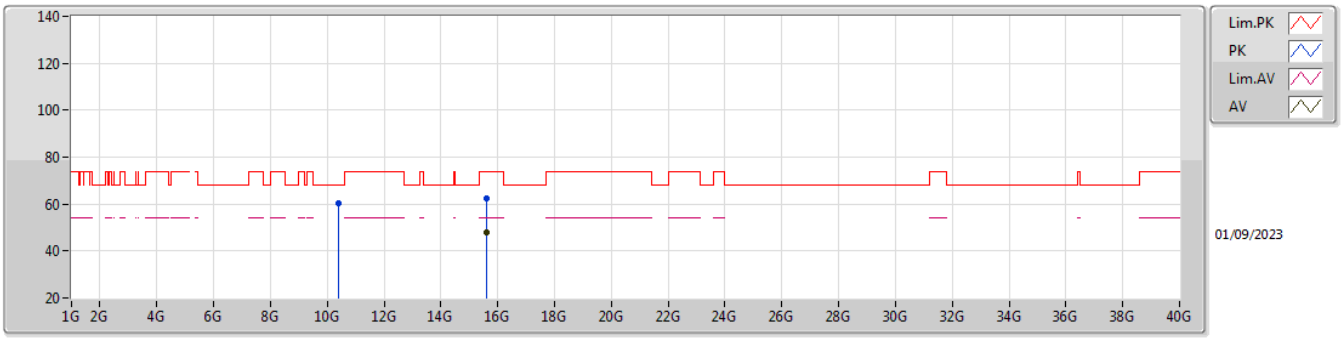


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.39748G	64.50	68.20	-3.70	80.05	3	Vertical	306	1.00	-	37.90	12.22	65.67
PK	15.60012G	63.99	74.00	-10.01	71.79	3	Vertical	102	2.10	-	38.00	16.30	62.10
AV	15.5958G	50.41	54.00	-3.59	58.19	3	Vertical	102	2.10	-	38.02	16.30	62.10

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5200MHz_TX

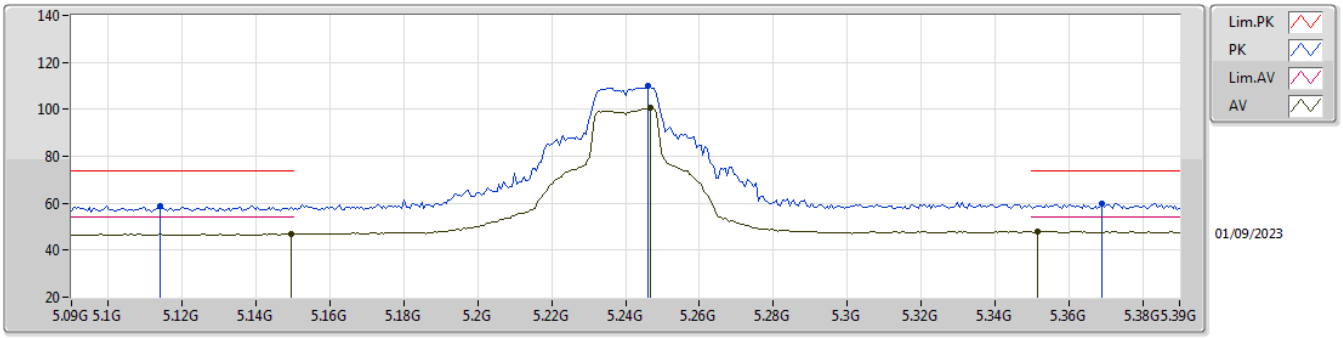


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.3982G	60.26	68.20	-7.94	75.81	3	Horizontal	132	2.91	-	37.90	12.22	65.67
PK	15.58974G	62.65	74.00	-11.35	70.42	3	Horizontal	223	2.23	-	38.04	16.29	62.10
AV	15.5979G	48.10	54.00	-5.90	55.89	3	Horizontal	223	2.23	-	38.01	16.30	62.10

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

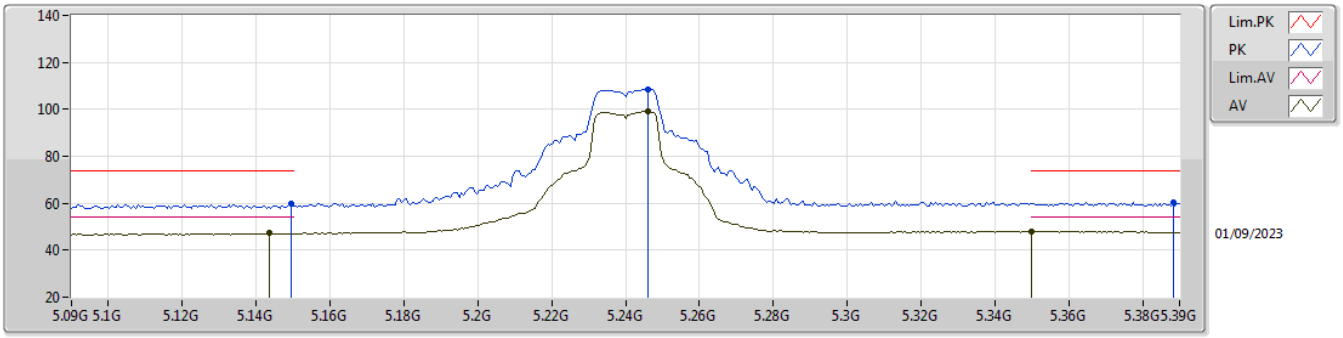


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.114G	58.68	74.00	-15.32	52.79	3	Vertical	20	1.03	-	34.03	6.71	34.85
AV	5.1494G	47.04	54.00	-6.96	41.04	3	Vertical	20	1.03	-	34.10	6.75	34.85
PK	5.246G	109.84	Inf	-Inf	103.88	3	Vertical	20	1.03	-	34.00	6.82	34.86
AV	5.2466G	100.67	Inf	-Inf	94.71	3	Vertical	20	1.03	-	34.00	6.82	34.86
PK	5.369G	60.00	74.00	-14.00	53.54	3	Vertical	20	1.03	-	34.46	6.88	34.88
AV	5.3516G	48.10	54.00	-5.90	41.60	3	Vertical	20	1.03	-	34.50	6.88	34.88

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

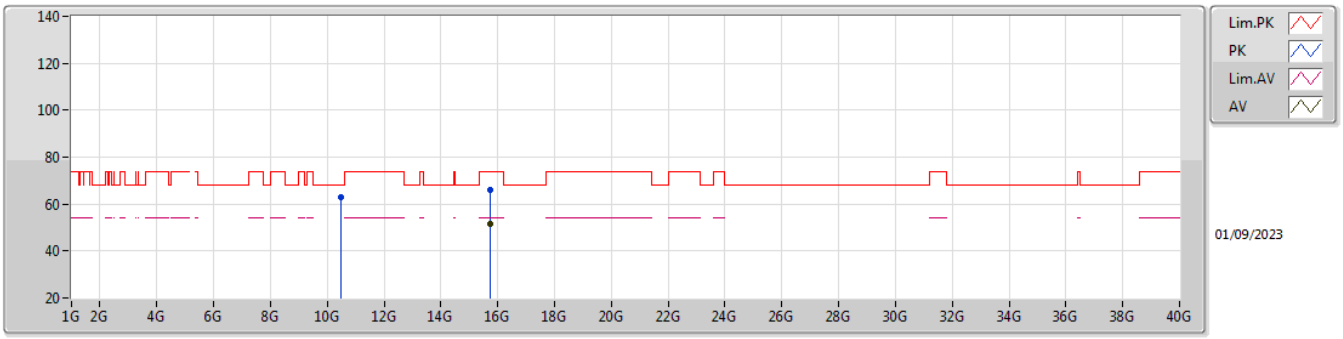


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1494G	59.82	74.00	-14.18	53.82	3	Horizontal	324	1.00	-	34.10	6.75	34.85
AV	5.1434G	47.19	54.00	-6.81	41.21	3	Horizontal	324	1.00	-	34.09	6.74	34.85
PK	5.246G	108.52	Inf	-Inf	102.56	3	Horizontal	324	1.00	-	34.00	6.82	34.86
AV	5.246G	99.39	Inf	-Inf	93.43	3	Horizontal	324	1.00	-	34.00	6.82	34.86
PK	5.3882G	60.36	74.00	-13.64	53.93	3	Horizontal	324	1.00	-	34.42	6.89	34.88
AV	5.35G	47.97	54.00	-6.03	41.47	3	Horizontal	324	1.00	-	34.50	6.88	34.88

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

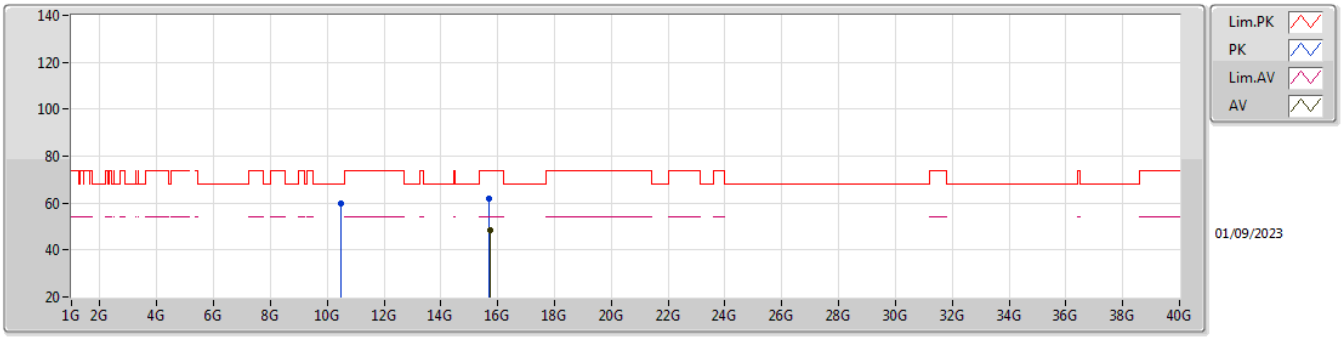


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.47682G	63.18	68.20	-5.02	78.39	3	Vertical	306	1.00	-	37.98	12.26	65.45
PK	15.72042G	65.92	74.00	-8.08	73.69	3	Vertical	99	2.06	-	37.98	16.42	62.17
AV	15.71976G	51.50	54.00	-2.50	59.27	3	Vertical	99	2.06	-	37.98	16.42	62.17

5.15-5.25GHz_802.11a_Nss1,(6Mbps)_1TX

5240MHz_TX

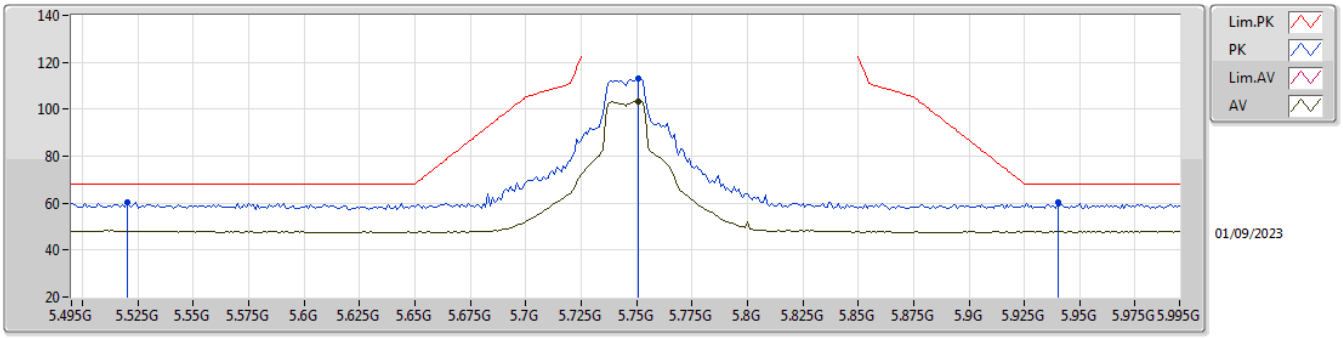


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.47682G	60.00	68.20	-8.20	75.21	3	Horizontal	139	2.26	-	37.98	12.26	65.45
PK	15.71016G	61.97	74.00	-12.03	69.68	3	Horizontal	360	1.96	-	38.04	16.41	62.16
AV	15.71664G	48.47	54.00	-5.53	56.22	3	Horizontal	360	1.96	-	38.00	16.42	62.17

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

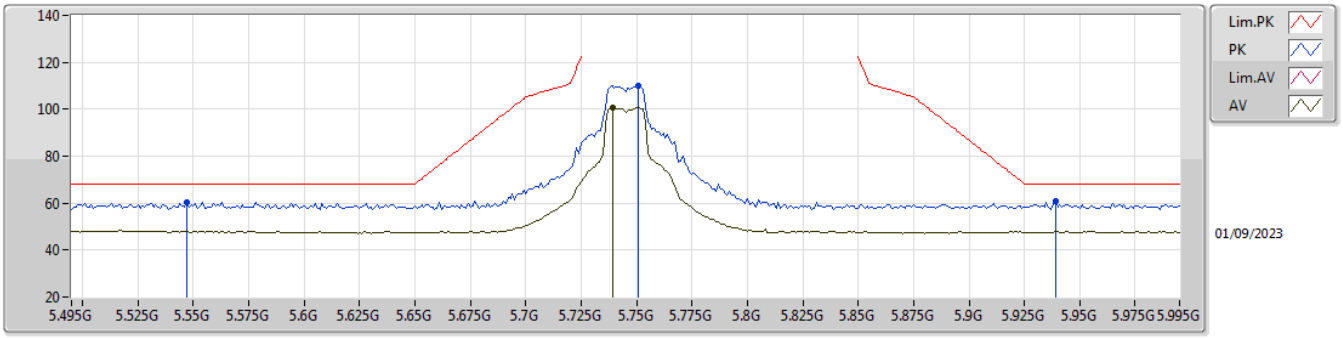


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.52G	60.46	68.20	-7.74	53.75	3	Vertical	28	1.00	-	34.60	7.02	34.91
PK	5.751G	112.95	Inf	-Inf	106.59	3	Vertical	28	1.00	-	34.20	7.18	35.02
AV	5.751G	103.48	Inf	-Inf	97.12	3	Vertical	28	1.00	-	34.20	7.18	35.02
PK	5.94G	60.18	68.20	-8.02	53.44	3	Vertical	28	1.00	-	34.58	7.27	35.11

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

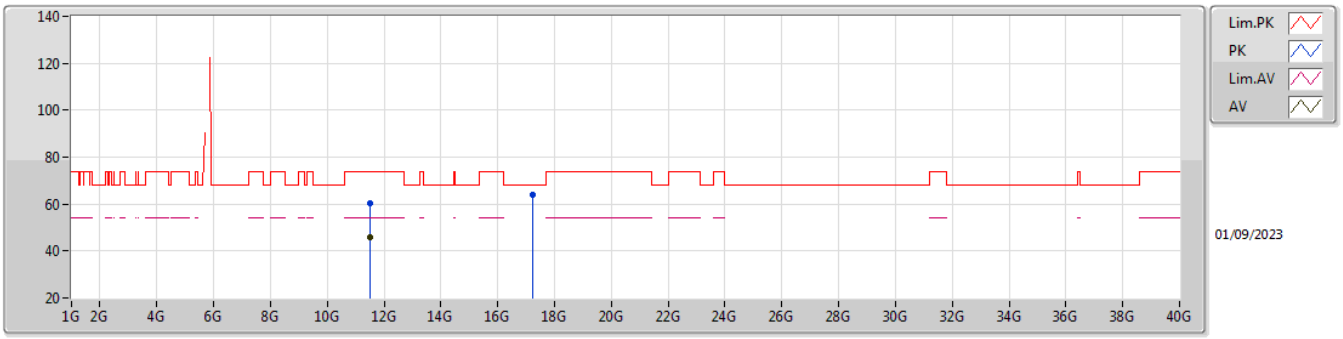


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.547G	60.43	68.20	-7.77	53.70	3	Horizontal	97	2.78	-	34.60	7.05	34.92
PK	5.751G	109.92	Inf	-Inf	103.56	3	Horizontal	97	2.78	-	34.20	7.18	35.02
AV	5.739G	100.66	Inf	-Inf	94.30	3	Horizontal	97	2.78	-	34.20	7.17	35.01
PK	5.939G	60.71	68.20	-7.49	53.97	3	Horizontal	97	2.78	-	34.58	7.27	35.11

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

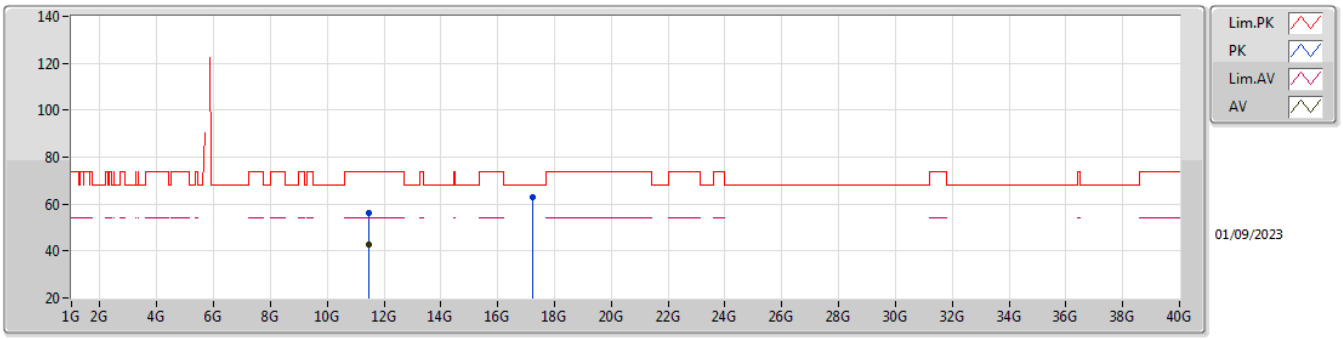


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.50038G	60.45	74.00	-13.55	73.58	3	Vertical	17	2.32	-	39.00	12.83	64.96
AV	11.48982G	46.09	54.00	-7.91	59.28	3	Vertical	17	2.32	-	38.97	12.82	64.98
PK	17.22696G	63.72	68.20	-4.48	67.97	3	Vertical	360	3.00	-	40.63	17.44	62.32

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5745MHz_TX

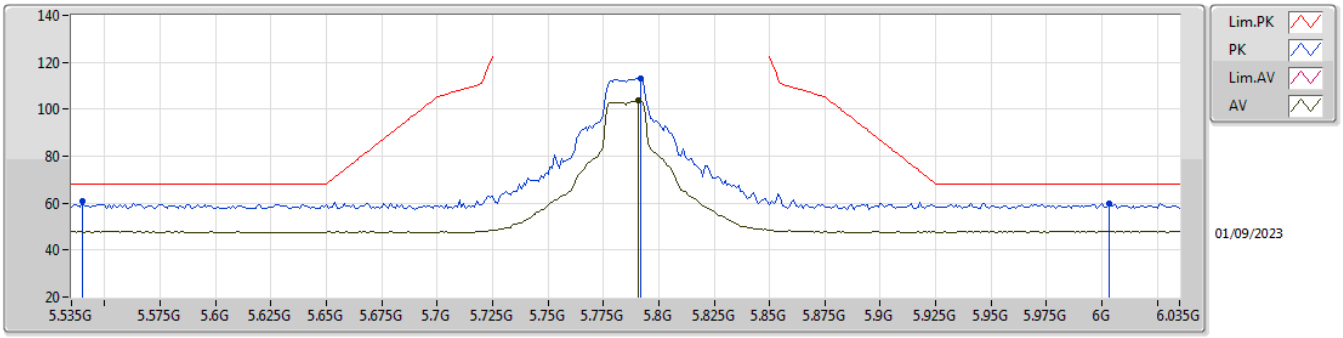


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.47584G	56.05	74.00	-17.95	69.32	3	Horizontal	50	2.68	-	38.93	12.81	65.01
AV	11.47506G	42.96	54.00	-11.04	56.23	3	Horizontal	50	2.68	-	38.93	12.81	65.01
PK	17.24424G	63.16	68.20	-5.04	67.31	3	Horizontal	90	1.01	-	40.72	17.45	62.32

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

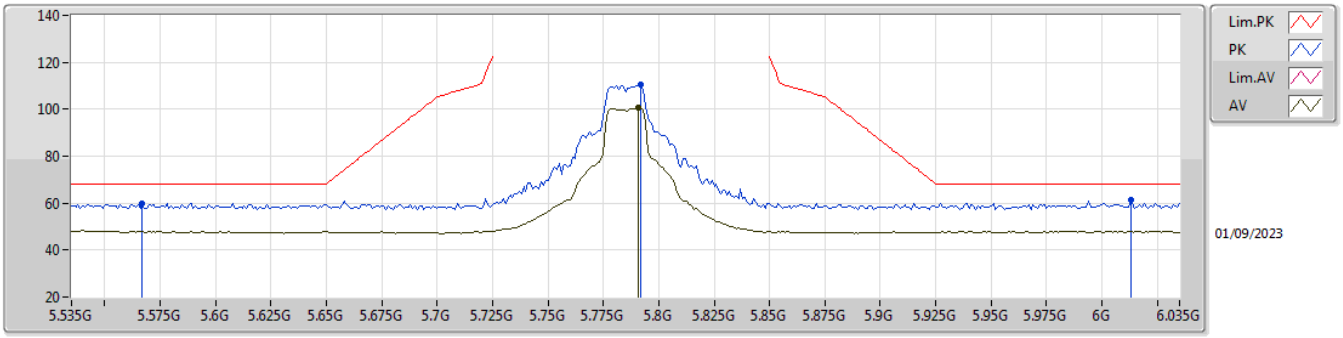


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.54G	61.11	68.20	-7.09	54.39	3	Vertical	36	1.12	-	34.60	7.04	34.92
PK	5.792G	113.32	Inf	-Inf	106.88	3	Vertical	36	1.12	-	34.28	7.20	35.04
AV	5.791G	103.66	Inf	-Inf	97.22	3	Vertical	36	1.12	-	34.28	7.20	35.04
PK	6.003G	60.01	68.20	-8.19	53.14	3	Vertical	36	1.12	-	34.71	7.30	35.14

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

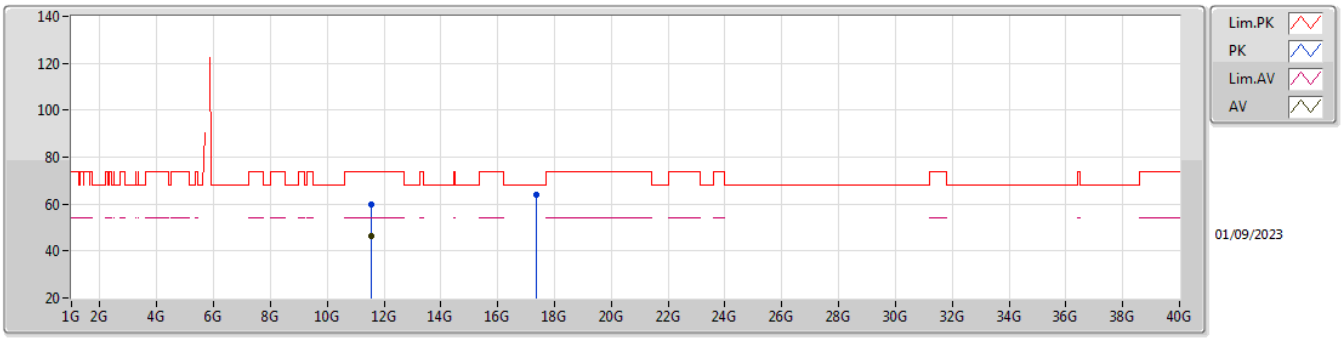


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.567G	59.99	68.20	-8.21	53.32	3	Horizontal	91	2.91	-	34.53	7.07	34.93
PK	5.792G	110.32	Inf	-Inf	103.88	3	Horizontal	91	2.91	-	34.28	7.20	35.04
AV	5.791G	100.68	Inf	-Inf	94.24	3	Horizontal	91	2.91	-	34.28	7.20	35.04
PK	6.013G	61.14	68.20	-7.06	54.23	3	Horizontal	91	2.91	-	34.73	7.32	35.14

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

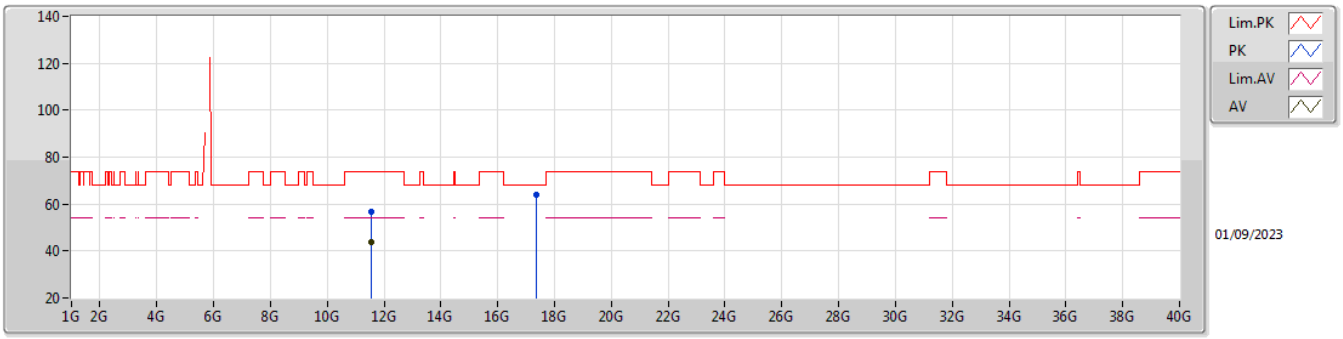


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5682G	59.87	74.00	-14.13	72.80	3	Vertical	187	2.32	-	39.20	12.86	64.99
AV	11.5701G	46.18	54.00	-7.82	59.10	3	Vertical	187	2.32	-	39.21	12.86	64.99
PK	17.3536G	64.19	68.20	-4.01	67.67	3	Vertical	211	3.00	-	41.38	17.51	62.37

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5785MHz_TX

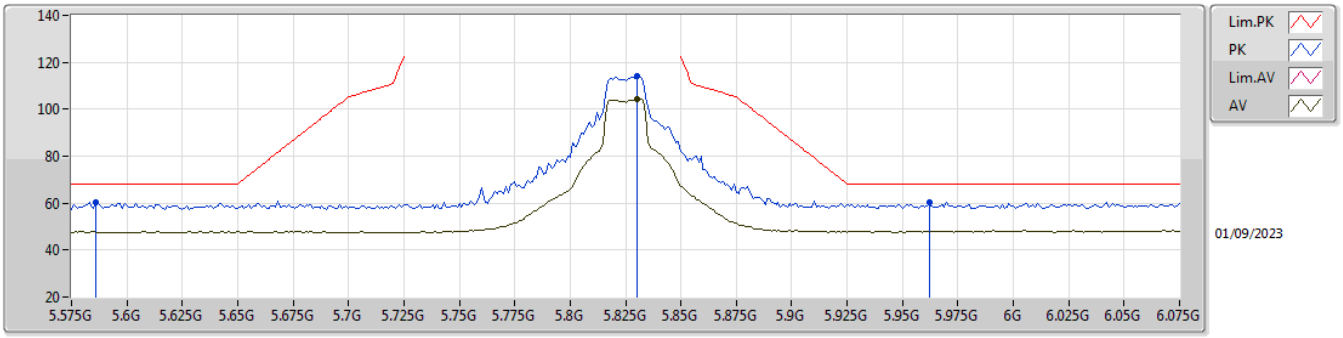


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5707G	56.69	74.00	-17.31	69.61	3	Horizontal	236	2.92	-	39.21	12.86	64.99
AV	11.5708G	43.71	54.00	-10.29	56.63	3	Horizontal	236	2.92	-	39.21	12.86	64.99
PK	17.3513G	64.09	68.20	-4.11	67.59	3	Horizontal	65	2.22	-	41.36	17.51	62.37

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

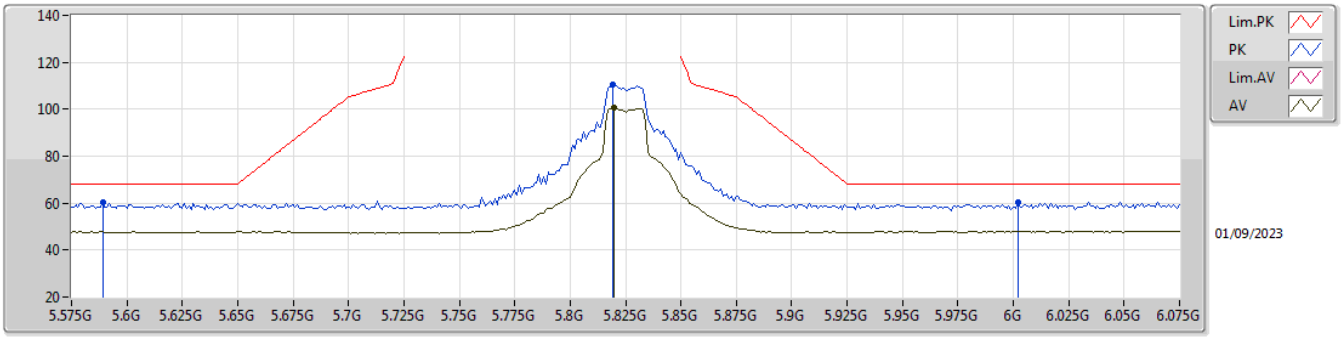


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.586G	60.44	68.20	-7.76	53.83	3	Vertical	30	1.03	-	34.46	7.09	34.94
PK	5.83G	114.03	Inf	-Inf	107.58	3	Vertical	30	1.03	-	34.30	7.21	35.06
AV	5.83G	104.19	Inf	-Inf	97.74	3	Vertical	30	1.03	-	34.30	7.21	35.06
PK	5.962G	60.37	68.20	-7.83	53.59	3	Vertical	30	1.03	-	34.62	7.28	35.12

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

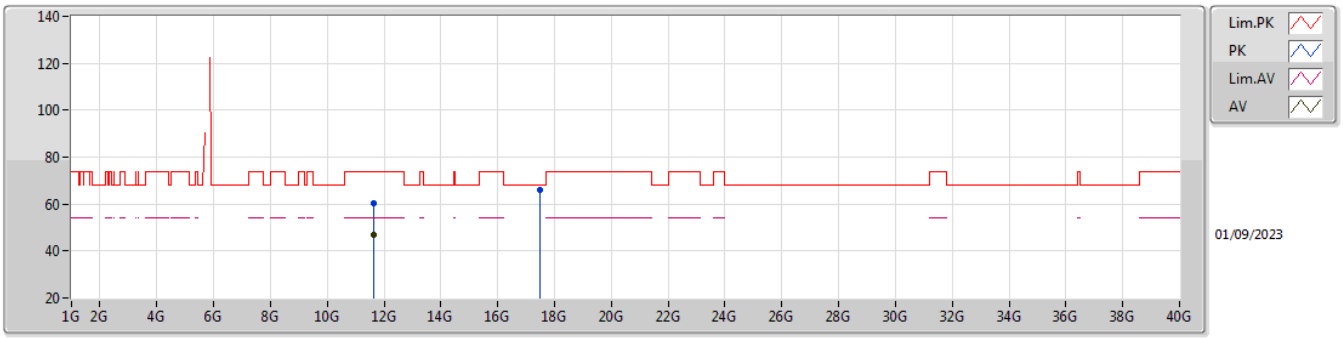


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.589G	60.12	68.20	-8.08	53.53	3	Horizontal	100	2.86	-	34.44	7.09	34.94
PK	5.819G	110.45	Inf	-Inf	103.99	3	Horizontal	100	2.86	-	34.30	7.21	35.05
AV	5.82G	100.45	Inf	-Inf	93.99	3	Horizontal	100	2.86	-	34.30	7.21	35.05
PK	6.002G	60.50	68.20	-7.70	53.64	3	Horizontal	100	2.86	-	34.70	7.30	35.14

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

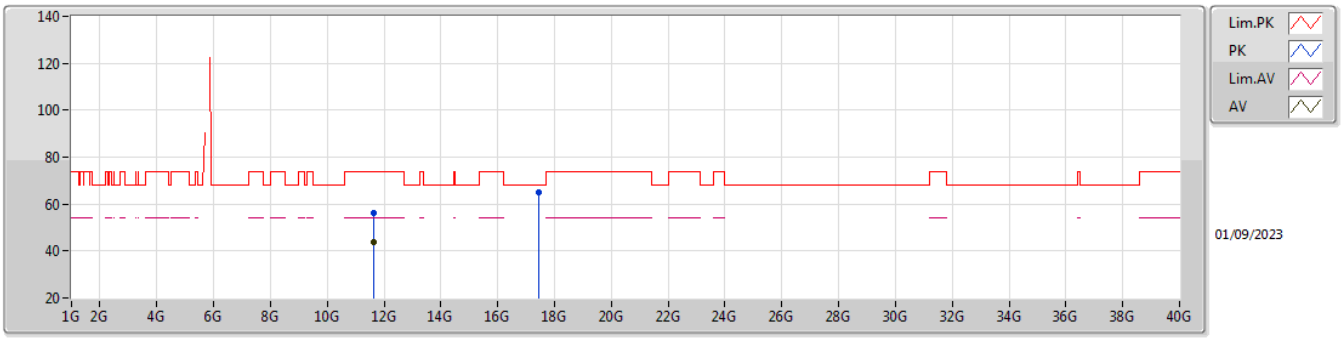


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6479G	60.60	74.00	-13.40	73.37	3	Vertical	17	2.29	-	39.35	12.91	65.03
AV	11.6495G	46.98	54.00	-7.02	59.75	3	Vertical	17	2.29	-	39.35	12.91	65.03
PK	17.4994G	66.08	68.20	-2.12	68.51	3	Vertical	335	1.03	-	42.40	17.60	62.43

5.725-5.85GHz_802.11a_Nss1,(6Mbps)_1TX

5825MHz_TX

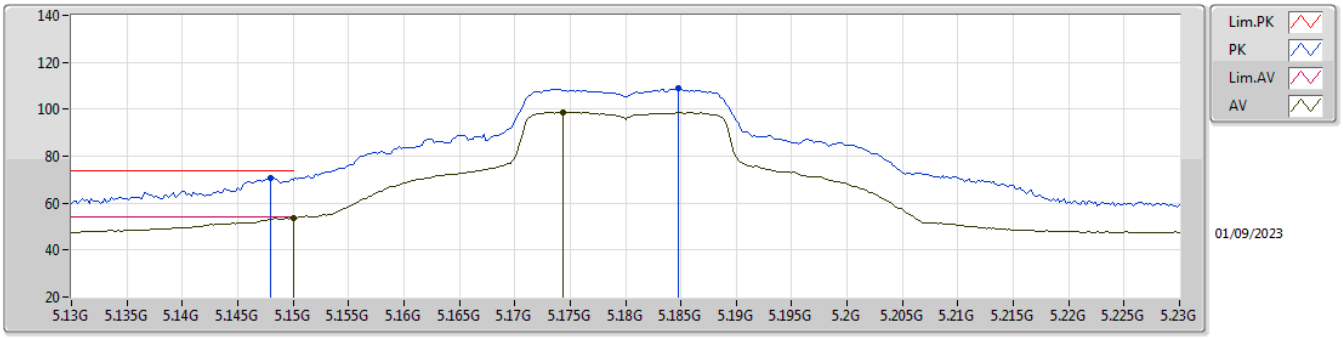


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6367G	56.29	74.00	-17.71	69.07	3	Horizontal	241	1.41	-	39.34	12.90	65.02
AV	11.6329G	43.72	54.00	-10.28	56.51	3	Horizontal	241	1.41	-	39.33	12.90	65.02
PK	17.462G	65.21	68.20	-2.99	67.91	3	Horizontal	314	1.80	-	42.13	17.58	62.41

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

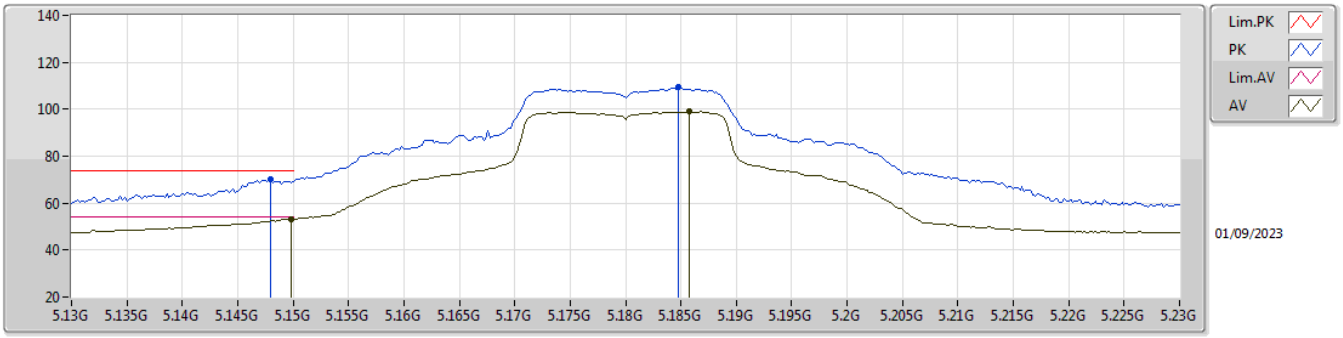


EUT Z_1TX
Setting 62
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.148G	70.70	74.00	-3.30	64.70	3	Vertical	258	2.31	-	34.10	6.75	34.85
AV	5.15G	53.49	54.00	-0.51	47.49	3	Vertical	258	2.31	-	34.10	6.75	34.85
PK	5.1848G	108.78	Inf	-Inf	102.83	3	Vertical	258	2.31	-	34.03	6.78	34.86
AV	5.1744G	98.81	Inf	-Inf	92.84	3	Vertical	258	2.31	-	34.05	6.77	34.85

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

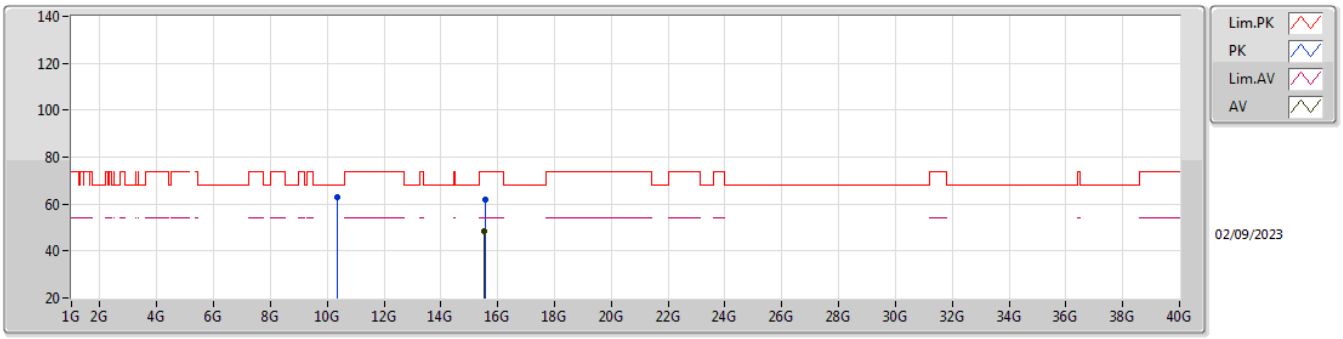


EUT Z_1TX
Setting 62
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.148G	69.93	74.00	-4.07	63.93	3	Horizontal	332	2.84	-	34.10	6.75	34.85
AV	5.1498G	53.04	54.00	-0.96	47.04	3	Horizontal	332	2.84	-	34.10	6.75	34.85
PK	5.1848G	109.26	Inf	-Inf	103.31	3	Horizontal	332	2.84	-	34.03	6.78	34.86
AV	5.1858G	98.99	Inf	-Inf	93.03	3	Horizontal	332	2.84	-	34.03	6.79	34.86

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

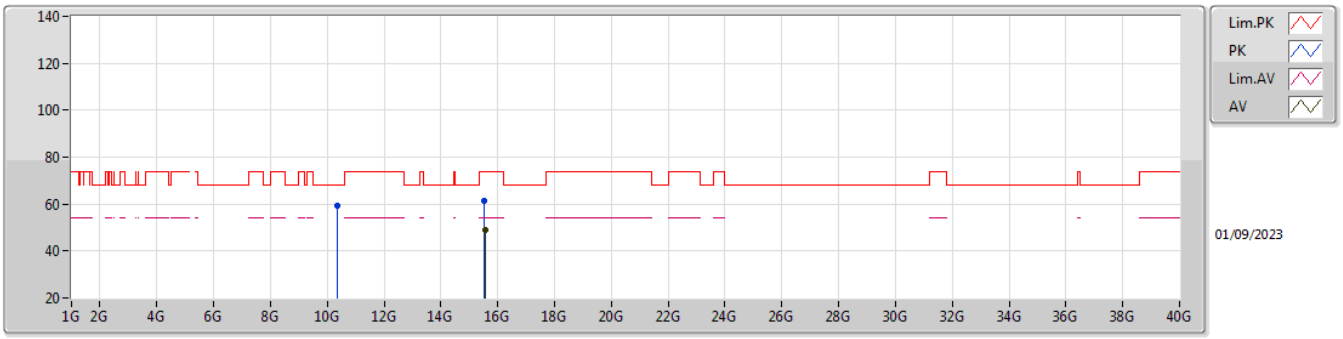


EUT Z_1TX
Setting 62
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.3595G	62.74	68.20	-5.46	78.45	3	Vertical	0	2.86	-	37.86	12.20	65.77
PK	15.5545G	62.04	74.00	-11.96	69.69	3	Vertical	327	1.15	-	38.18	16.25	62.08
AV	15.5448G	48.62	54.00	-5.38	56.23	3	Vertical	327	1.15	-	38.22	16.24	62.07

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

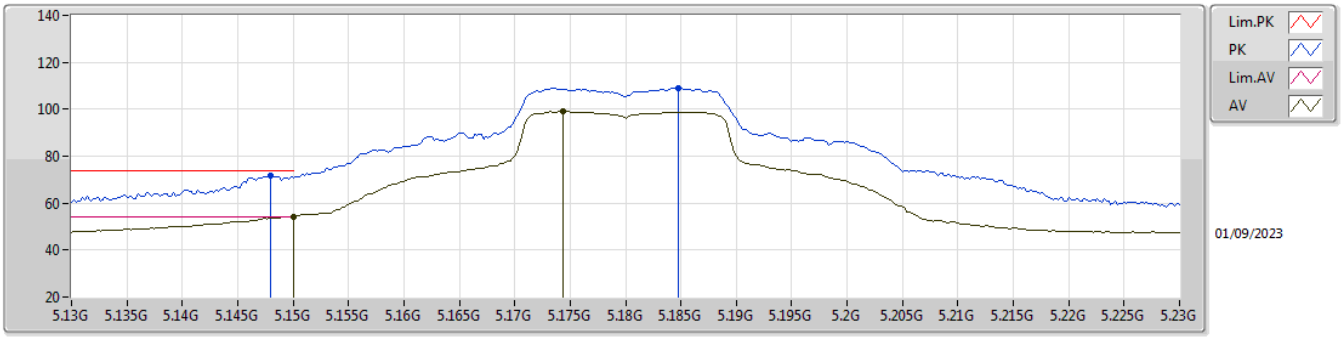


EUT Z_1TX
Setting 62
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.3587G	59.32	68.20	-8.88	75.04	3	Horizontal	131	2.94	-	37.86	12.20	65.78
PK	15.5449G	61.32	74.00	-12.68	68.93	3	Horizontal	360	2.60	-	38.22	16.24	62.07
AV	15.5582G	48.79	54.00	-5.21	56.44	3	Horizontal	360	2.60	-	38.17	16.26	62.08

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5180MHz_TX

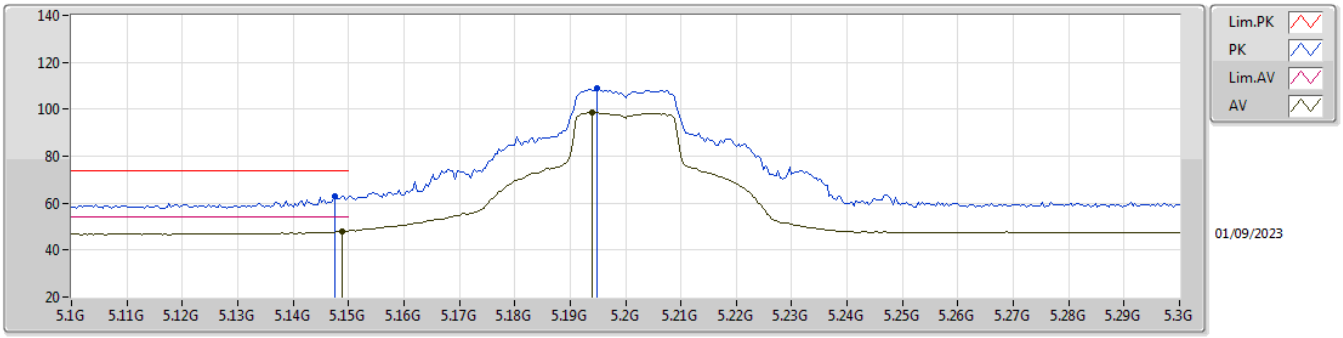


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.148G	71.93	74.00	-2.07	65.93	3	Vertical	258	2.31	-	34.10	6.75	34.85
AV	5.15G	54.22	54.00	0.22	48.22	3	Vertical	258	2.31	-	34.10	6.75	34.85
PK	5.1848G	109.07	Inf	-Inf	103.12	3	Vertical	258	2.31	-	34.03	6.78	34.86
AV	5.1744G	99.06	Inf	-Inf	93.09	3	Vertical	258	2.31	-	34.05	6.77	34.85

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

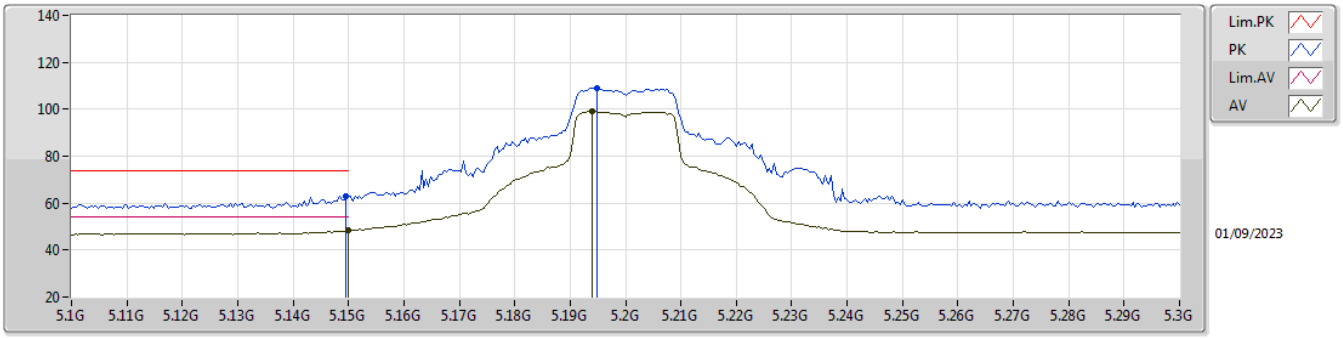


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1476G	62.97	74.00	-11.03	56.97	3	Vertical	261	2.23	-	34.10	6.75	34.85
AV	5.1488G	48.09	54.00	-5.91	42.09	3	Vertical	261	2.23	-	34.10	6.75	34.85
PK	5.1948G	108.86	Inf	-Inf	102.92	3	Vertical	261	2.23	-	34.01	6.79	34.86
AV	5.194G	98.81	Inf	-Inf	92.87	3	Vertical	261	2.23	-	34.01	6.79	34.86

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

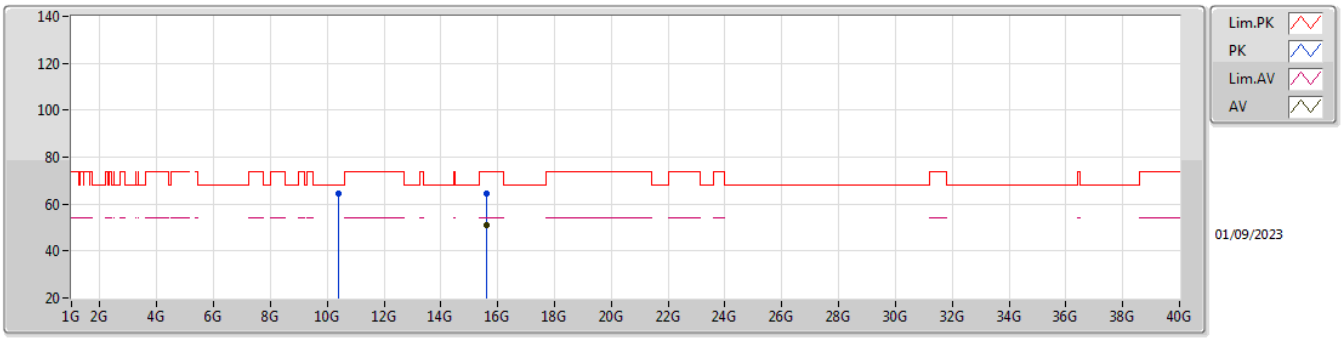


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1496G	63.14	74.00	-10.86	57.14	3	Horizontal	326	1.07	-	34.10	6.75	34.85
AV	5.15G	48.20	54.00	-5.80	42.20	3	Horizontal	326	1.07	-	34.10	6.75	34.85
PK	5.1948G	109.22	Inf	-Inf	103.28	3	Horizontal	326	1.07	-	34.01	6.79	34.86
AV	5.194G	99.15	Inf	-Inf	93.21	3	Horizontal	326	1.07	-	34.01	6.79	34.86

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

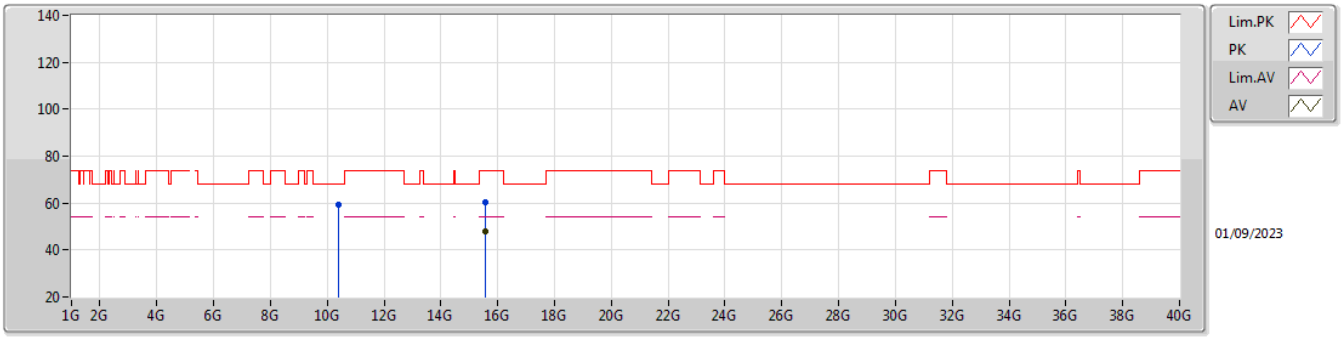


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4011G	64.66	68.20	-3.54	80.20	3	Vertical	360	3.00	-	37.90	12.22	65.66
PK	15.6065G	64.31	74.00	-9.69	72.10	3	Vertical	100	2.06	-	38.01	16.31	62.11
AV	15.5979G	51.03	54.00	-2.97	58.82	3	Vertical	100	2.06	-	38.01	16.30	62.10

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5200MHz_TX

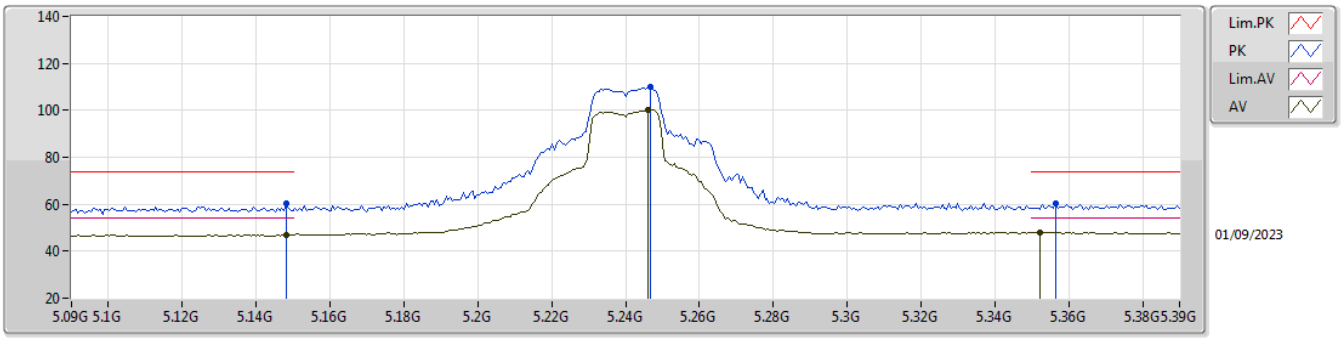


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4002G	59.33	68.20	-8.87	74.87	3	Horizontal	130	2.10	-	37.90	12.22	65.66
PK	15.5832G	60.45	74.00	-13.55	68.19	3	Horizontal	187	2.62	-	38.07	16.28	62.09
AV	15.5784G	47.94	54.00	-6.06	55.66	3	Horizontal	187	2.62	-	38.09	16.28	62.09

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

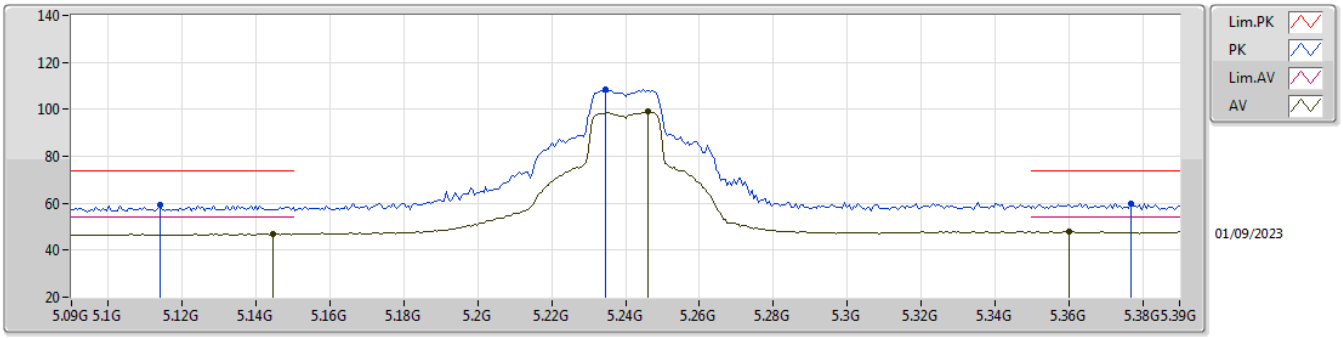


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1482G	60.27	74.00	-13.73	54.27	3	Vertical	20	1.02	-	34.10	6.75	34.85
AV	5.1482G	46.89	54.00	-7.11	40.89	3	Vertical	20	1.02	-	34.10	6.75	34.85
PK	5.2466G	109.83	Inf	-Inf	103.87	3	Vertical	20	1.02	-	34.00	6.82	34.86
AV	5.246G	100.42	Inf	-Inf	94.46	3	Vertical	20	1.02	-	34.00	6.82	34.86
PK	5.3564G	60.28	74.00	-13.72	53.79	3	Vertical	20	1.02	-	34.49	6.88	34.88
AV	5.3522G	48.16	54.00	-5.84	41.66	3	Vertical	20	1.02	-	34.50	6.88	34.88

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

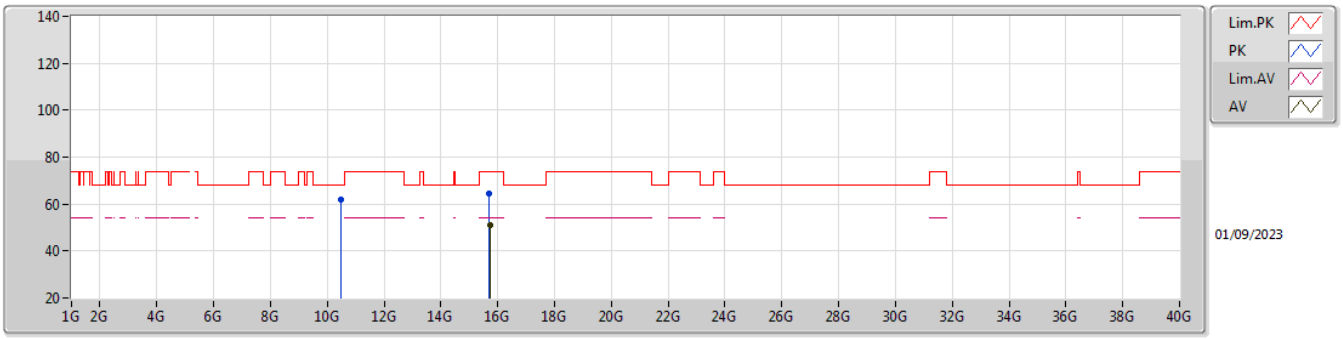


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.114G	59.09	74.00	-14.91	53.20	3	Horizontal	324	1.00	-	34.03	6.71	34.85
AV	5.1446G	47.07	54.00	-6.93	41.09	3	Horizontal	324	1.00	-	34.09	6.74	34.85
PK	5.2346G	108.60	Inf	-Inf	102.64	3	Horizontal	324	1.00	-	34.00	6.82	34.86
AV	5.246G	99.00	Inf	-Inf	93.04	3	Horizontal	324	1.00	-	34.00	6.82	34.86
PK	5.3768G	59.92	74.00	-14.08	53.46	3	Horizontal	324	1.00	-	34.45	6.89	34.88
AV	5.36G	47.88	54.00	-6.12	41.40	3	Horizontal	324	1.00	-	34.48	6.88	34.88

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

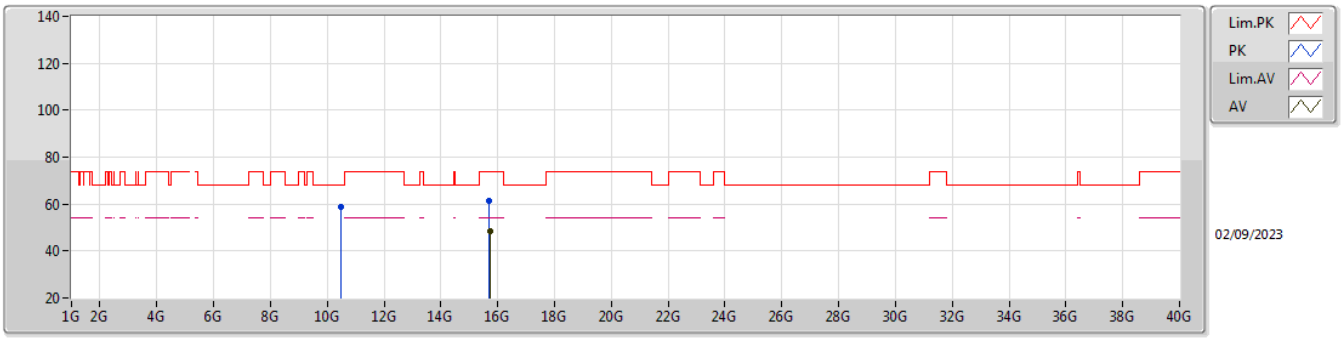


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.4785G	61.93	68.20	-6.27	77.14	3	Vertical	303	1.06	-	37.98	12.26	65.45
PK	15.71334G	64.63	74.00	-9.37	72.37	3	Vertical	99	2.12	-	38.02	16.41	62.17
AV	15.71838G	50.90	54.00	-3.10	58.66	3	Vertical	99	2.12	-	37.99	16.42	62.17

5.15-5.25GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5240MHz_TX

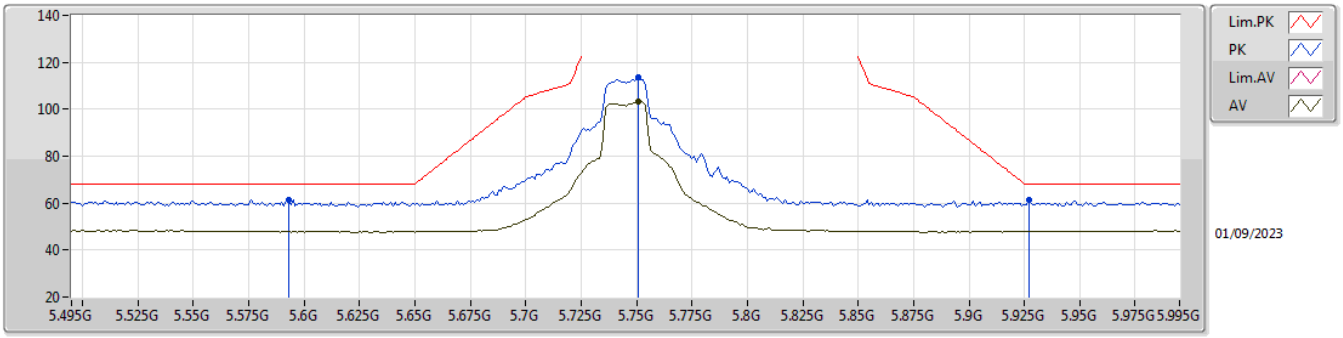


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.47862G	58.59	68.20	-9.61	73.80	3	Horizontal	135	2.24	-	37.98	12.26	65.45
PK	15.71346G	61.54	74.00	-12.46	69.28	3	Horizontal	0	1.99	-	38.02	16.41	62.17
AV	15.71892G	48.19	54.00	-5.81	55.95	3	Horizontal	0	1.99	-	37.99	16.42	62.17

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

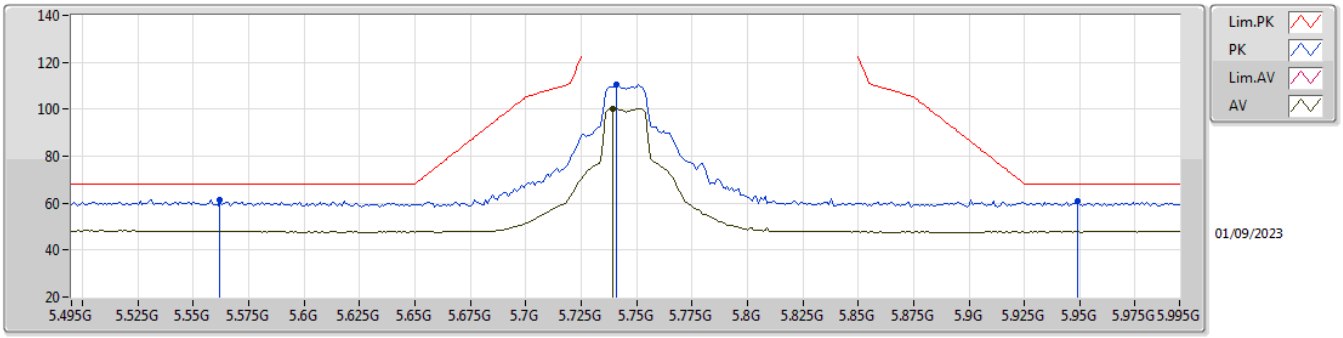


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.593G	61.32	68.20	-6.88	54.74	3	Vertical	30	1.03	-	34.43	7.09	34.94
PK	5.751G	113.45	Inf	-Inf	107.09	3	Vertical	30	1.03	-	34.20	7.18	35.02
AV	5.751G	103.31	Inf	-Inf	96.95	3	Vertical	30	1.03	-	34.20	7.18	35.02
PK	5.927G	61.14	68.20	-7.06	54.43	3	Vertical	30	1.03	-	34.55	7.26	35.10

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

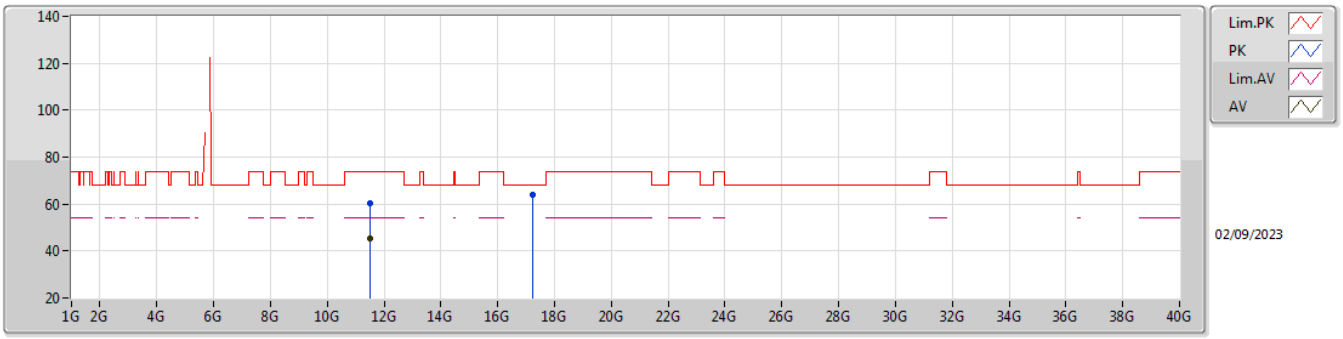


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.562G	61.41	68.20	-6.79	54.73	3	Horizontal	99	2.80	-	34.55	7.06	34.93
PK	5.741G	110.56	Inf	-Inf	104.21	3	Horizontal	99	2.80	-	34.20	7.17	35.02
AV	5.739G	100.38	Inf	-Inf	94.02	3	Horizontal	99	2.80	-	34.20	7.17	35.01
PK	5.949G	60.85	68.20	-7.35	54.10	3	Horizontal	99	2.80	-	34.60	7.27	35.12

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

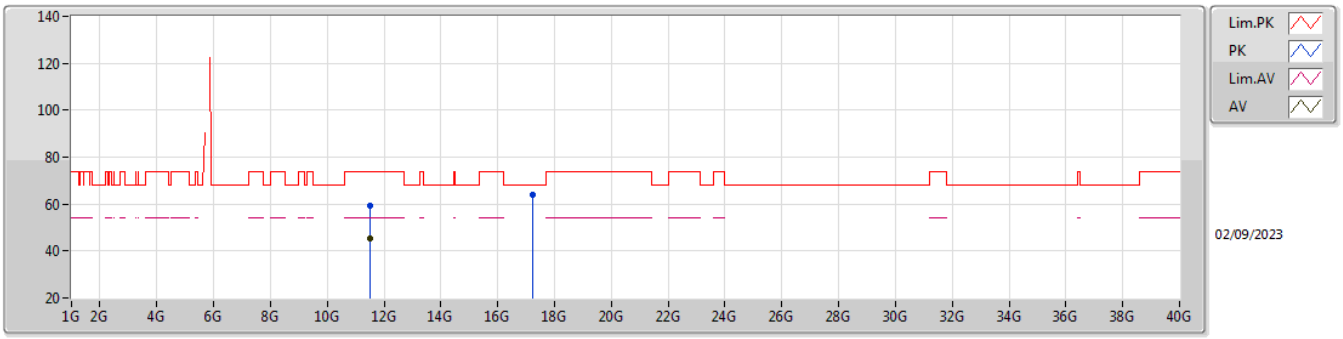


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.49258G	60.10	74.00	-13.90	73.27	3	Vertical	19	2.35	-	38.98	12.82	64.97
AV	11.4906G	45.60	54.00	-8.40	58.79	3	Vertical	19	2.35	-	38.97	12.82	64.98
PK	17.23674G	64.07	68.20	-4.13	68.27	3	Vertical	340	1.75	-	40.68	17.44	62.32

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5745MHz_TX

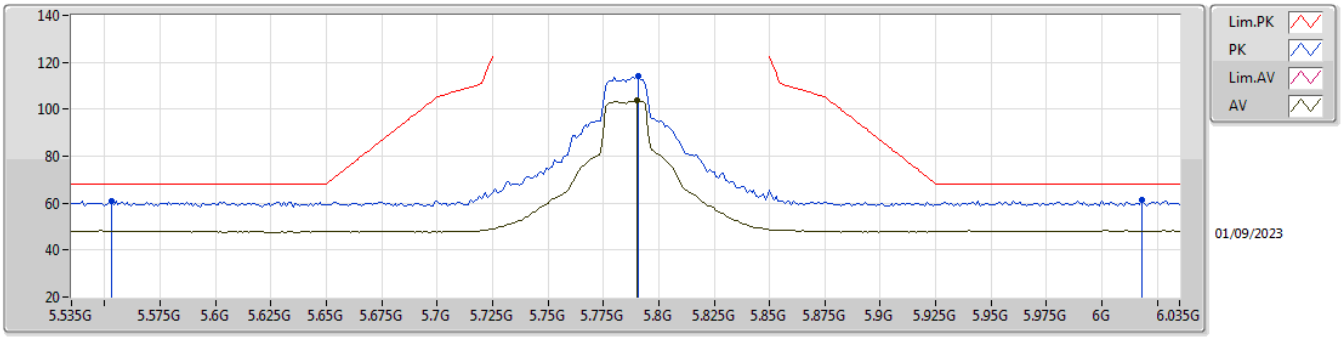


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.48988G	59.53	74.00	-14.47	72.72	3	Horizontal	146	2.27	-	38.97	12.82	64.98
AV	11.49006G	45.27	54.00	-8.73	58.46	3	Horizontal	146	2.27	-	38.97	12.82	64.98
PK	17.23842G	64.09	68.20	-4.11	68.28	3	Horizontal	318	1.80	-	40.69	17.44	62.32

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

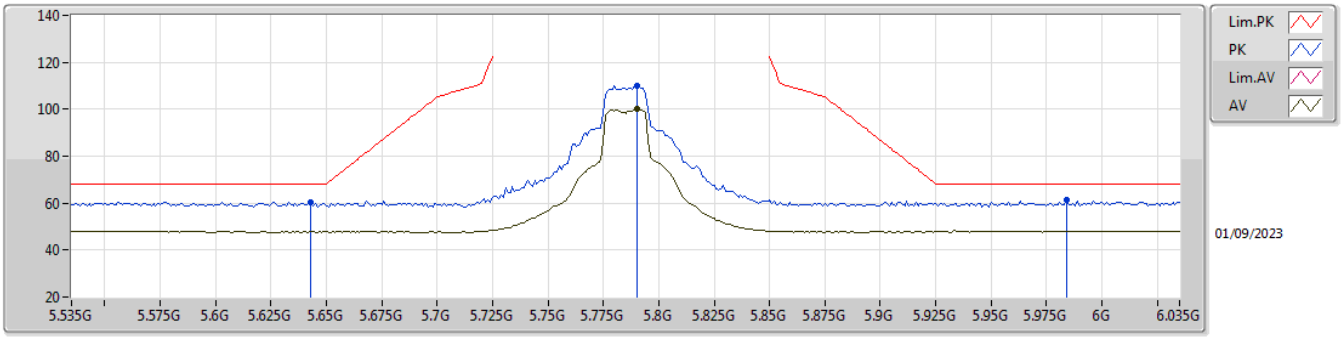


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.553G	60.74	68.20	-7.46	54.03	3	Vertical	29	1.03	-	34.59	7.05	34.93
PK	5.791G	114.04	Inf	-Inf	107.60	3	Vertical	29	1.03	-	34.28	7.20	35.04
AV	5.79G	103.78	Inf	-Inf	97.34	3	Vertical	29	1.03	-	34.28	7.20	35.04
PK	6.018G	61.17	68.20	-7.03	54.23	3	Vertical	29	1.03	-	34.74	7.33	35.13

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

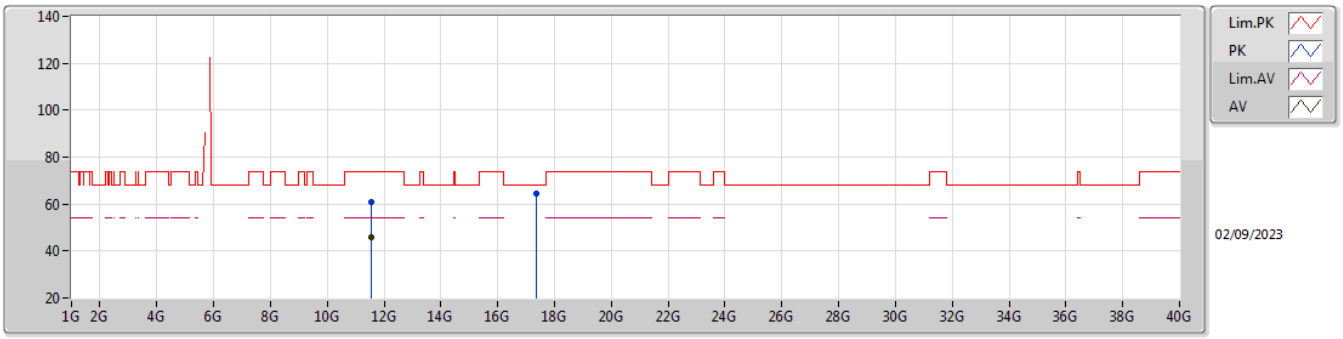


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.643G	60.49	68.20	-7.71	53.94	3	Horizontal	95	2.92	-	34.40	7.12	34.97
PK	5.79G	110.19	Inf	-Inf	103.75	3	Horizontal	95	2.92	-	34.28	7.20	35.04
AV	5.79G	99.93	Inf	-Inf	93.49	3	Horizontal	95	2.92	-	34.28	7.20	35.04
PK	5.984G	61.21	68.20	-6.99	54.38	3	Horizontal	95	2.92	-	34.67	7.29	35.13

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

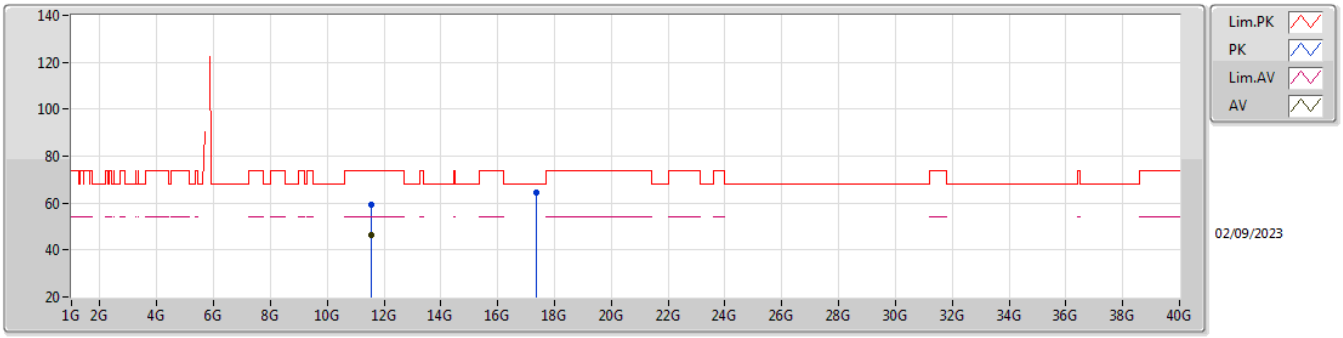


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5684G	60.65	74.00	-13.35	73.57	3	Vertical	16	1.00	-	39.21	12.86	64.99
AV	11.5705G	46.12	54.00	-7.88	59.04	3	Vertical	16	1.00	-	39.21	12.86	64.99
PK	17.3617G	64.54	68.20	-3.66	67.96	3	Vertical	360	1.01	-	41.43	17.52	62.37

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5785MHz_TX

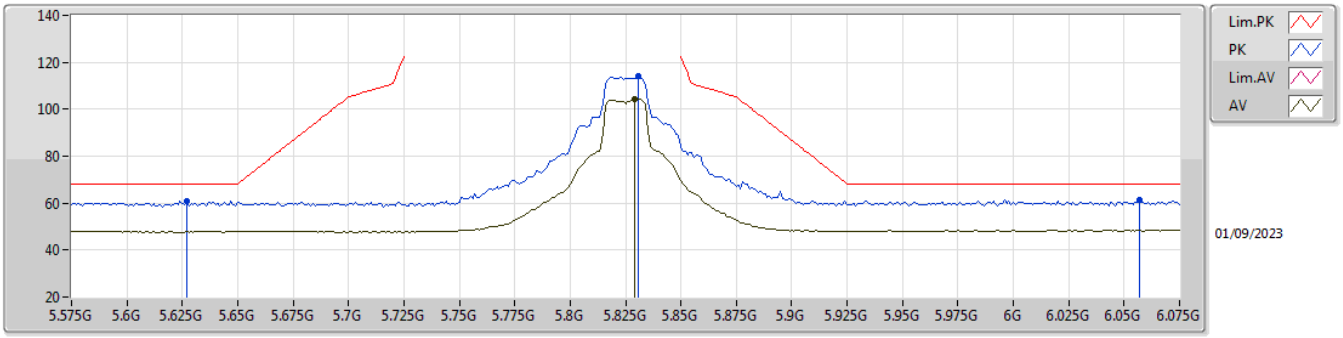


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5667G	59.48	74.00	-14.52	72.41	3	Horizontal	145	2.23	-	39.20	12.86	64.99
AV	11.5688G	46.28	54.00	-7.72	59.20	3	Horizontal	145	2.23	-	39.21	12.86	64.99
PK	17.3446G	64.64	68.20	-3.56	68.18	3	Horizontal	307	1.42	-	41.31	17.51	62.36

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

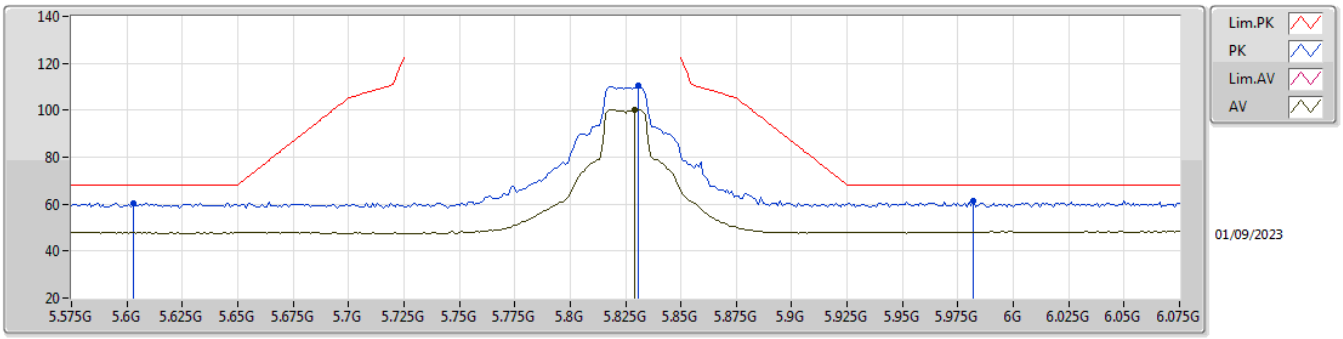


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.627G	61.01	68.20	-7.19	54.46	3	Vertical	28	1.04	-	34.40	7.11	34.96
PK	5.831G	114.15	Inf	-Inf	107.69	3	Vertical	28	1.04	-	34.30	7.22	35.06
AV	5.829G	104.20	Inf	-Inf	97.75	3	Vertical	28	1.04	-	34.30	7.21	35.06
PK	6.057G	61.38	68.20	-6.82	54.28	3	Vertical	28	1.04	-	34.83	7.39	35.12

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

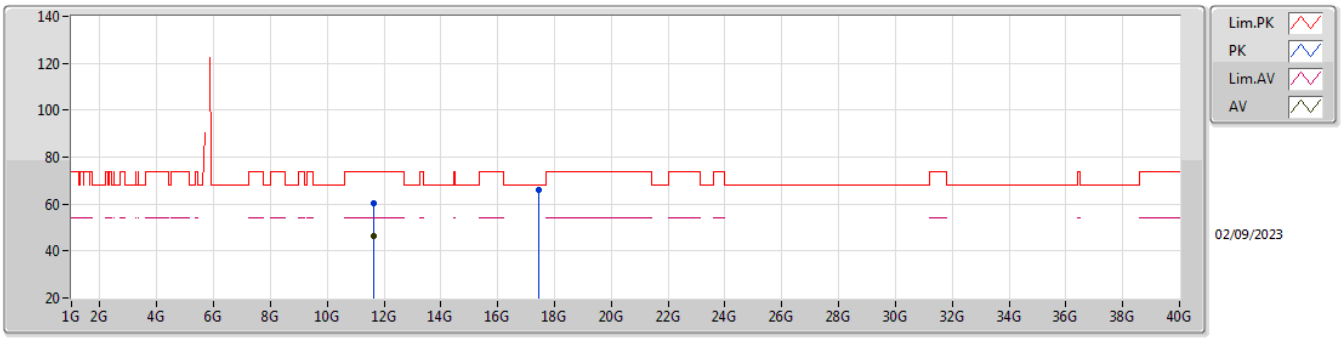


EUT Z_1TX
Setting 63
03-E-R-7-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.603G	60.59	68.20	-7.61	54.04	3	Horizontal	93	3.00	-	34.40	7.10	34.95
PK	5.831G	110.29	Inf	-Inf	103.83	3	Horizontal	93	3.00	-	34.30	7.22	35.06
AV	5.829G	100.37	Inf	-Inf	93.92	3	Horizontal	93	3.00	-	34.30	7.21	35.06
PK	5.982G	61.46	68.20	-6.74	54.64	3	Horizontal	93	3.00	-	34.66	7.29	35.13

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

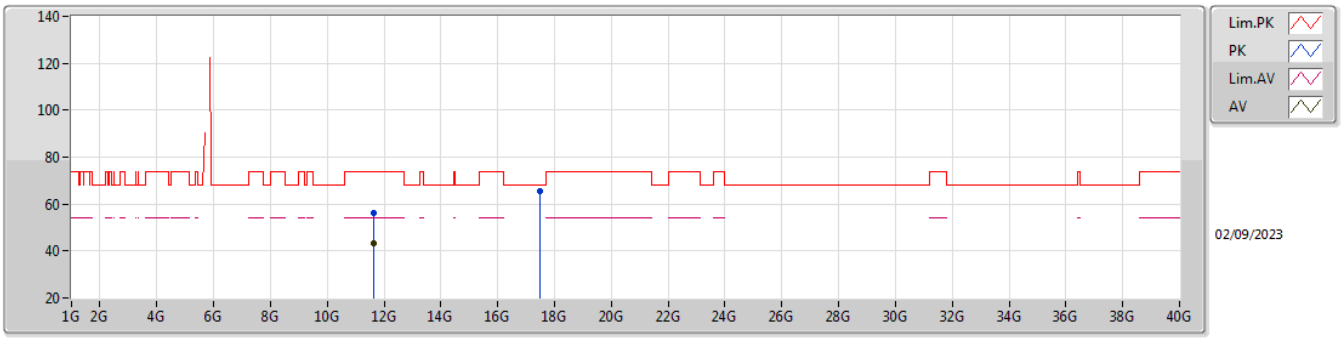


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6524G	60.58	74.00	-13.42	73.35	3	Vertical	22	1.01	-	39.35	12.91	65.03
AV	11.6492G	46.24	54.00	-7.76	59.01	3	Vertical	22	1.01	-	39.35	12.91	65.03
PK	17.4533G	66.03	68.20	-2.17	68.80	3	Vertical	246	1.42	-	42.07	17.57	62.41

5.725-5.85GHz_802.11ac VHT20_Nss1,(MCS0)_1TX

5825MHz_TX

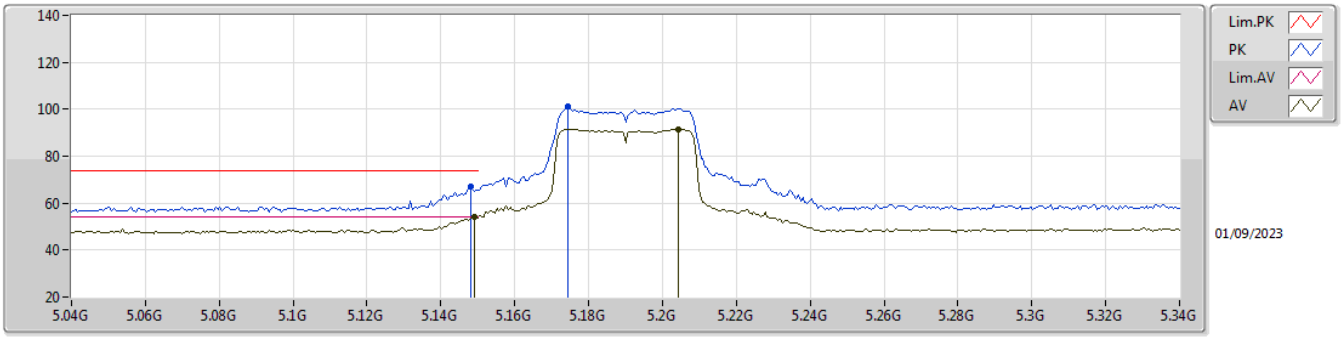


EUT Z_1TX
Setting 63
03-E-R-7

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.6306G	56.36	74.00	-17.64	69.15	3	Horizontal	316	2.10	-	39.33	12.90	65.02
AV	11.6301G	43.08	54.00	-10.92	55.87	3	Horizontal	316	2.10	-	39.33	12.90	65.02
PK	17.497G	65.62	68.20	-2.58	68.07	3	Horizontal	309	1.54	-	42.38	17.60	62.43

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

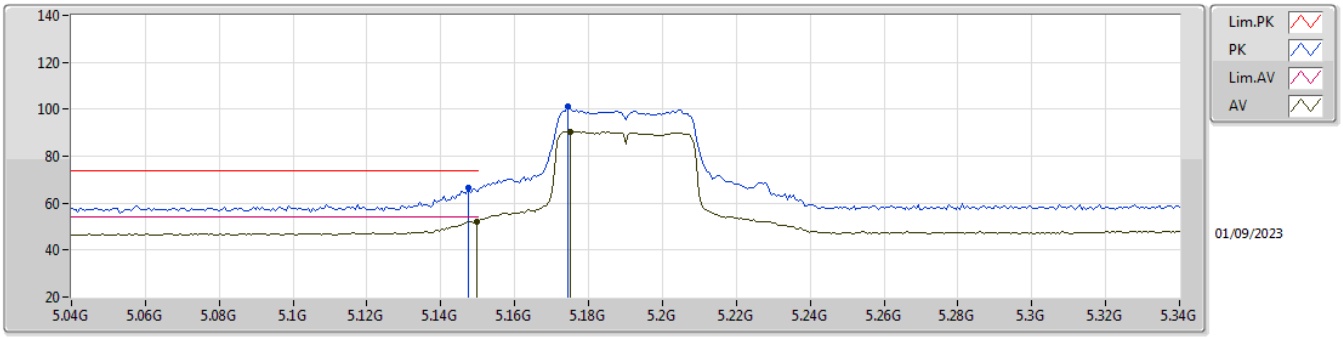


EUT Z_1TX
Setting 49
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.148G	66.93	74.00	-7.07	60.93	3	Vertical	257	2.44	-	34.10	6.75	34.85
AV	5.1492G	53.96	54.00	-0.04	47.96	3	Vertical	257	2.44	-	34.10	6.75	34.85
PK	5.1744G	101.37	Inf	-Inf	95.40	3	Vertical	257	2.44	-	34.05	6.77	34.85
AV	5.2044G	91.63	Inf	-Inf	85.69	3	Vertical	257	2.44	-	34.00	6.80	34.86

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

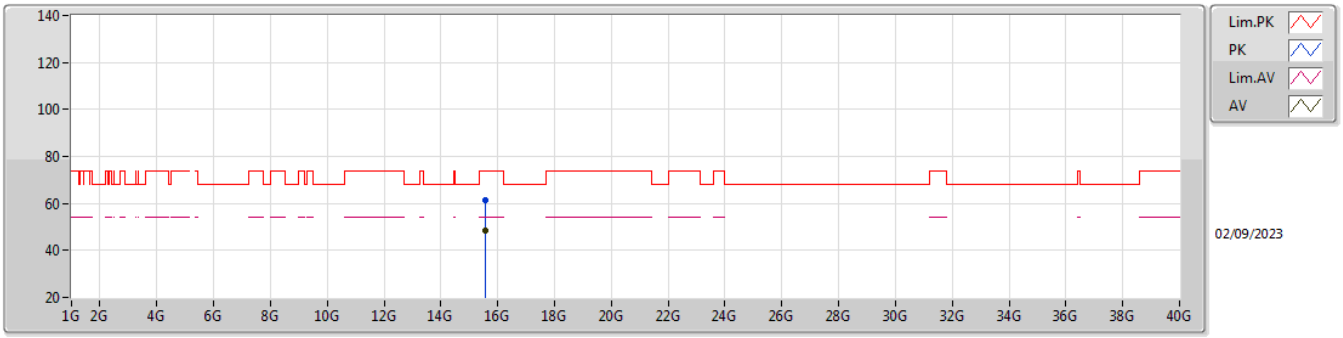


EUT Z_1TX
Setting 49
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1474G	66.35	74.00	-7.65	60.36	3	Horizontal	321	2.87	-	34.09	6.75	34.85
AV	5.1498G	52.30	54.00	-1.70	46.30	3	Horizontal	321	2.87	-	34.10	6.75	34.85
PK	5.1744G	101.25	Inf	-Inf	95.28	3	Horizontal	321	2.87	-	34.05	6.77	34.85
AV	5.175G	90.60	Inf	-Inf	84.63	3	Horizontal	321	2.87	-	34.05	6.77	34.85

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

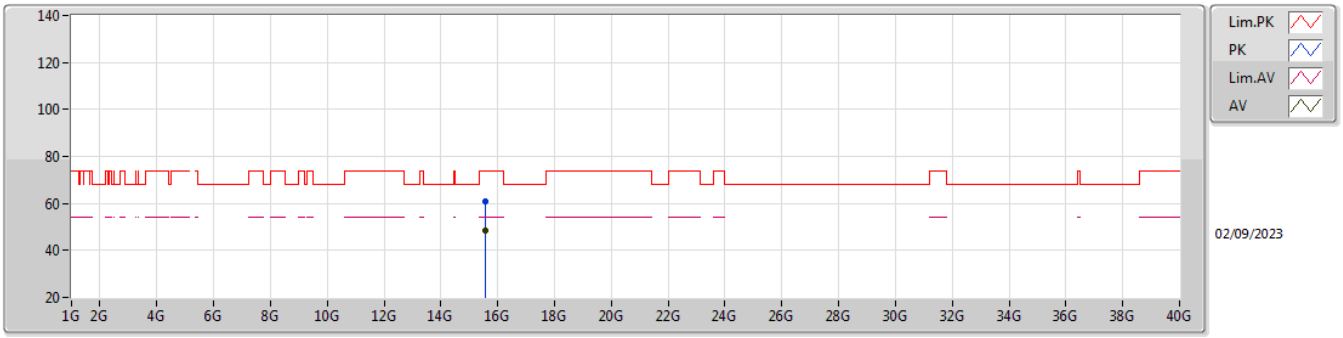


EUT Z_1TX
Setting 49
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.56208G	61.16	74.00	-12.84	68.83	3	Vertical	155	1.43	-	38.15	16.26	62.08
AV	15.5686G	48.46	54.00	-5.54	56.15	3	Vertical	155	1.43	-	38.13	16.27	62.09

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5190MHz_TX

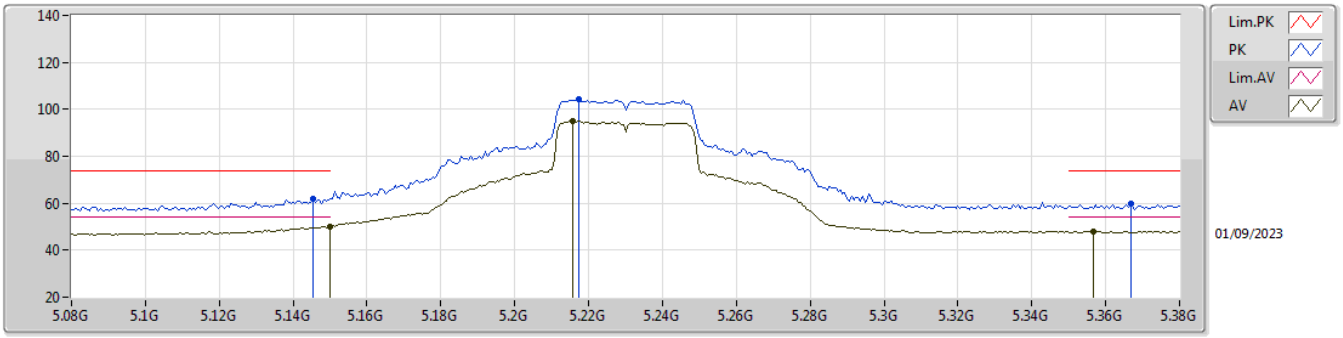


EUT Z_1TX
Setting 49
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.56144G	61.12	74.00	-12.88	68.79	3	Horizontal	107	2.51	-	38.15	16.26	62.08
AV	15.568G	48.66	54.00	-5.34	56.35	3	Horizontal	107	2.51	-	38.13	16.27	62.09

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

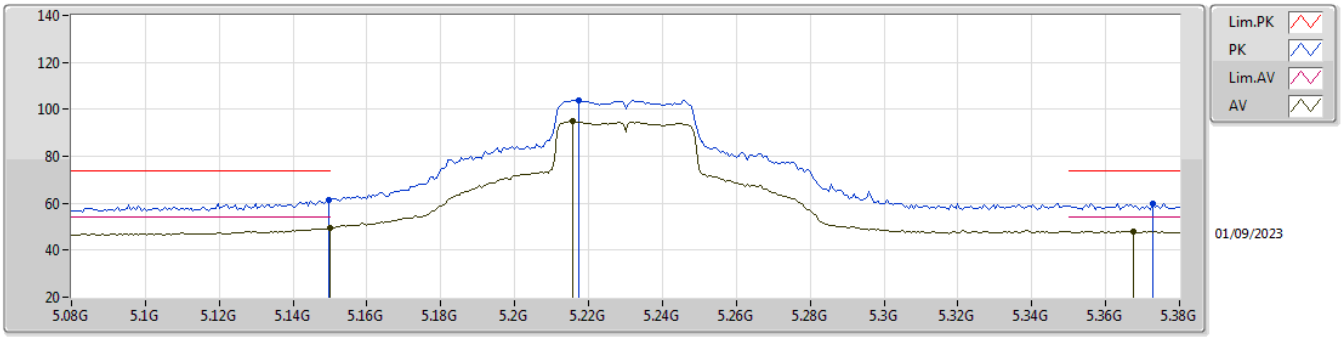


EUT Z_1TX
Setting 63
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1454G	61.95	74.00	-12.05	55.96	3	Vertical	259	2.44	-	34.09	6.75	34.85
AV	5.15G	50.21	54.00	-3.79	44.21	3	Vertical	259	2.44	-	34.10	6.75	34.85
PK	5.2174G	104.07	Inf	-Inf	98.12	3	Vertical	259	2.44	-	34.00	6.81	34.86
AV	5.2156G	95.02	Inf	-Inf	89.07	3	Vertical	259	2.44	-	34.00	6.81	34.86
PK	5.3668G	59.76	74.00	-14.24	53.29	3	Vertical	259	2.44	-	34.47	6.88	34.88
AV	5.3566G	47.94	54.00	-6.06	41.45	3	Vertical	259	2.44	-	34.49	6.88	34.88

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

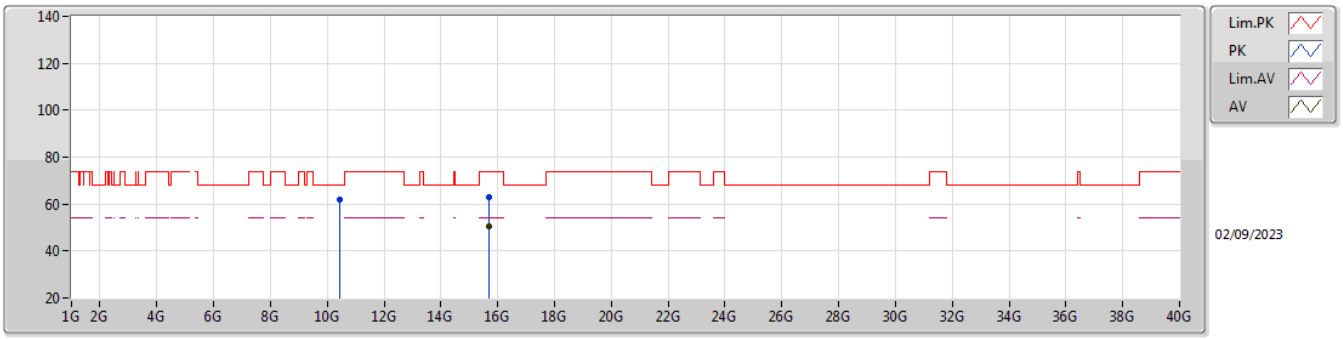


EUT Z_1TX
Setting 63
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.1496G	61.37	74.00	-12.63	55.37	3	Horizontal	336	2.81	-	34.10	6.75	34.85
AV	5.15G	49.50	54.00	-4.50	43.50	3	Horizontal	336	2.81	-	34.10	6.75	34.85
PK	5.2174G	103.93	Inf	-Inf	97.98	3	Horizontal	336	2.81	-	34.00	6.81	34.86
AV	5.2156G	94.89	Inf	-Inf	88.94	3	Horizontal	336	2.81	-	34.00	6.81	34.86
PK	5.3728G	59.92	74.00	-14.08	53.46	3	Horizontal	336	2.81	-	34.45	6.89	34.88
AV	5.3674G	47.97	54.00	-6.03	41.50	3	Horizontal	336	2.81	-	34.47	6.88	34.88

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

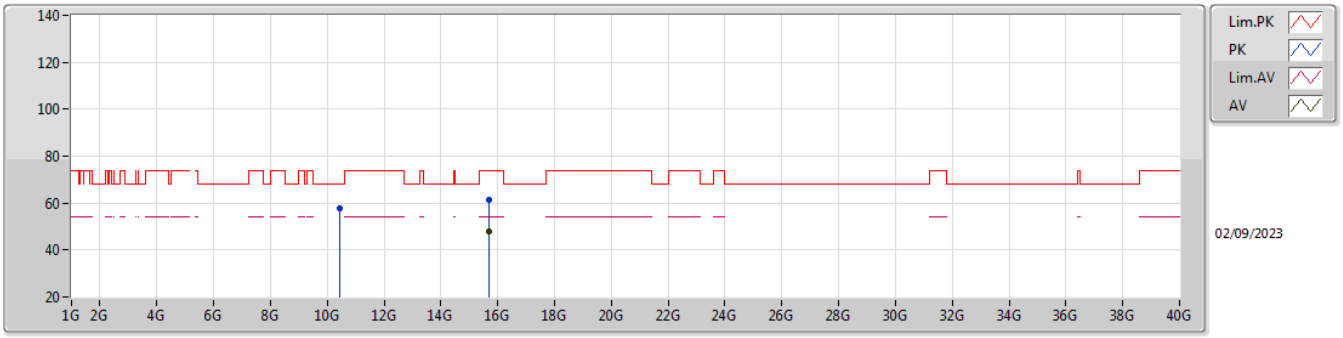


EUT Z_1TX
Setting 63
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.45808G	61.67	68.20	-6.53	76.96	3	Vertical	360	2.89	-	37.96	12.25	65.50
PK	15.68768G	62.74	74.00	-11.26	70.41	3	Vertical	98	2.11	-	38.09	16.39	62.15
AV	15.69616G	50.47	54.00	-3.53	58.13	3	Vertical	98	2.11	-	38.10	16.40	62.16

5.15-5.25GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5230MHz_TX

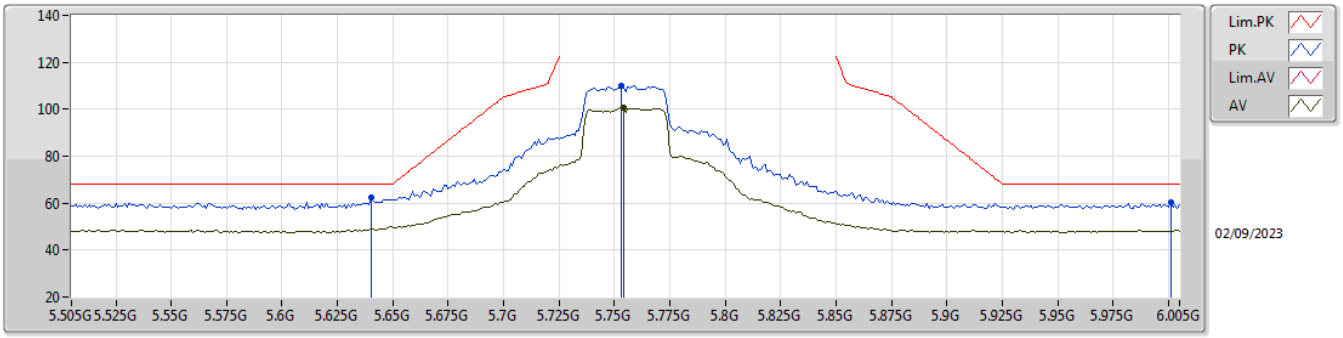


EUT Z_1TX
Setting 63
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	10.46004G	57.89	68.20	-10.31	73.18	3	Horizontal	6	2.42	-	37.96	12.25	65.50
PK	15.68204G	61.15	74.00	-12.85	68.84	3	Horizontal	36	1.80	-	38.08	16.38	62.15
AV	15.68036G	47.94	54.00	-6.06	55.63	3	Horizontal	36	1.80	-	38.08	16.38	62.15

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

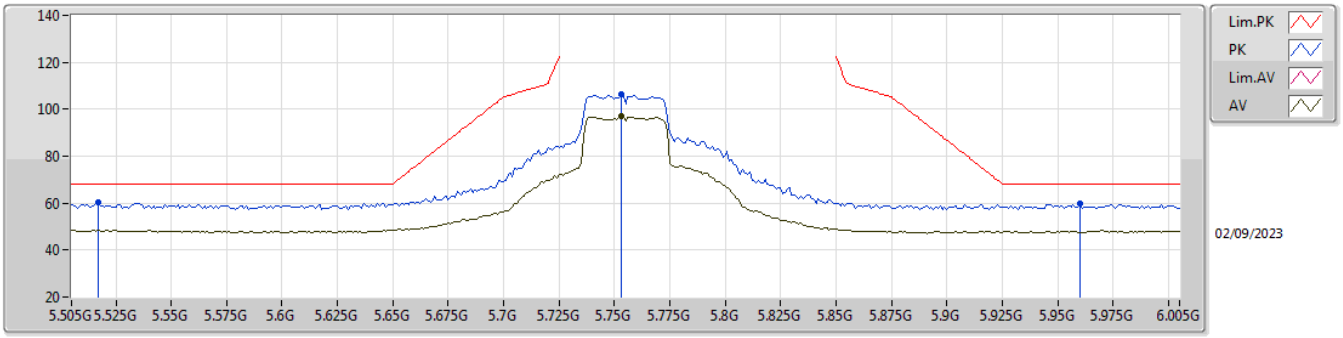


EUT Z_1TX
Setting 63
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.64G	62.56	68.20	-5.64	56.01	3	Vertical	24	1.02	-	34.40	7.12	34.97
PK	5.753G	109.92	Inf	-Inf	103.55	3	Vertical	24	1.02	-	34.21	7.18	35.02
AV	5.754G	100.58	Inf	-Inf	94.21	3	Vertical	24	1.02	-	34.21	7.18	35.02
PK	6.001G	60.14	68.20	-8.06	53.28	3	Vertical	24	1.02	-	34.70	7.30	35.14

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

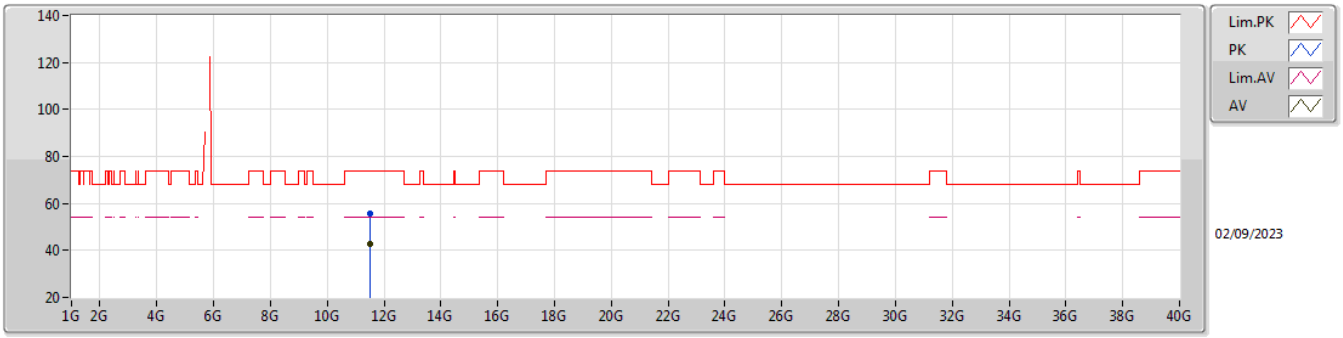


EUT Z_1TX
Setting 63
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.517G	60.21	68.20	-7.99	53.50	3	Horizontal	96	2.77	-	34.60	7.02	34.91
PK	5.753G	106.16	Inf	-Inf	99.79	3	Horizontal	96	2.77	-	34.21	7.18	35.02
AV	5.753G	96.84	Inf	-Inf	90.47	3	Horizontal	96	2.77	-	34.21	7.18	35.02
PK	5.96G	59.94	68.20	-8.26	53.16	3	Horizontal	96	2.77	-	34.62	7.28	35.12

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

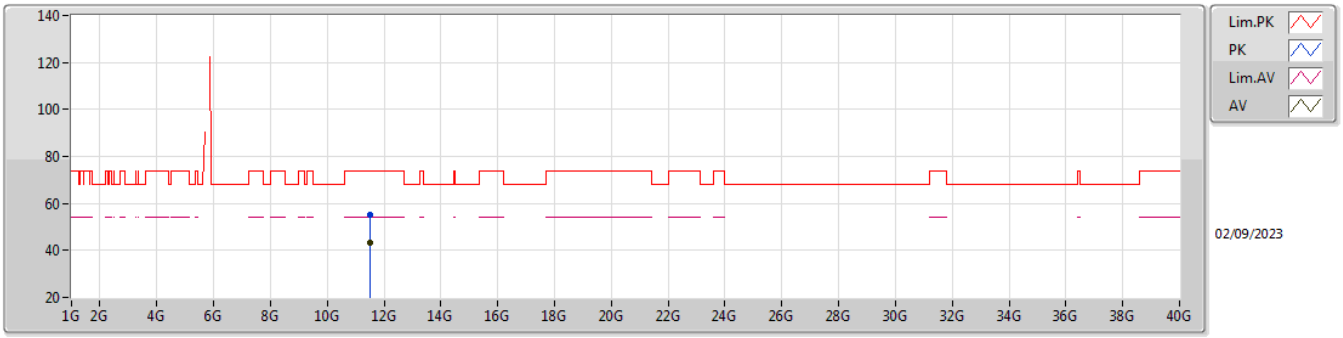


EUT Z_1TX
Setting 63
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.50584G	55.56	74.00	-18.44	68.67	3	Vertical	209	1.04	-	39.02	12.83	64.96
AV	11.51612G	42.92	54.00	-11.08	56.01	3	Vertical	209	1.04	-	39.05	12.83	64.97

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5755MHz_TX

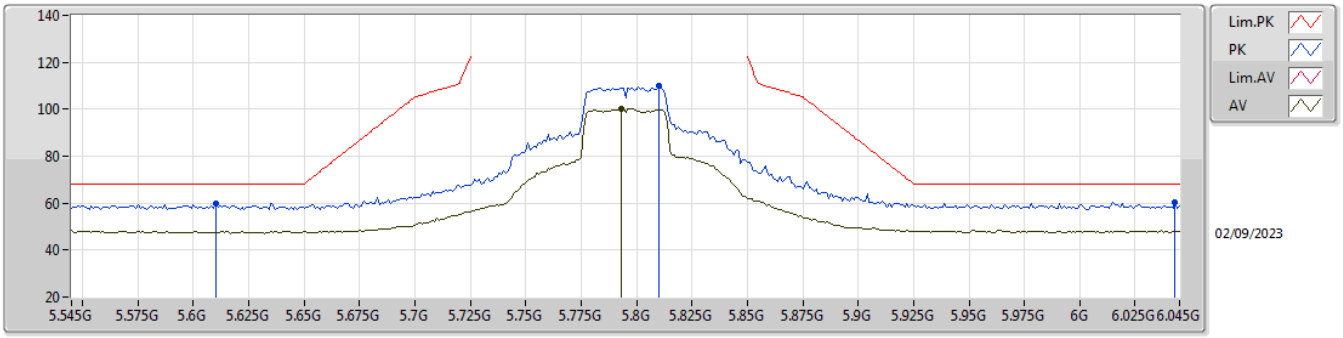


EUT Z_1TX
Setting 63
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5136G	55.27	74.00	-18.73	68.37	3	Horizontal	259	1.60	-	39.04	12.83	64.97
AV	11.51172G	43.11	54.00	-10.89	56.21	3	Horizontal	259	1.60	-	39.04	12.83	64.97

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

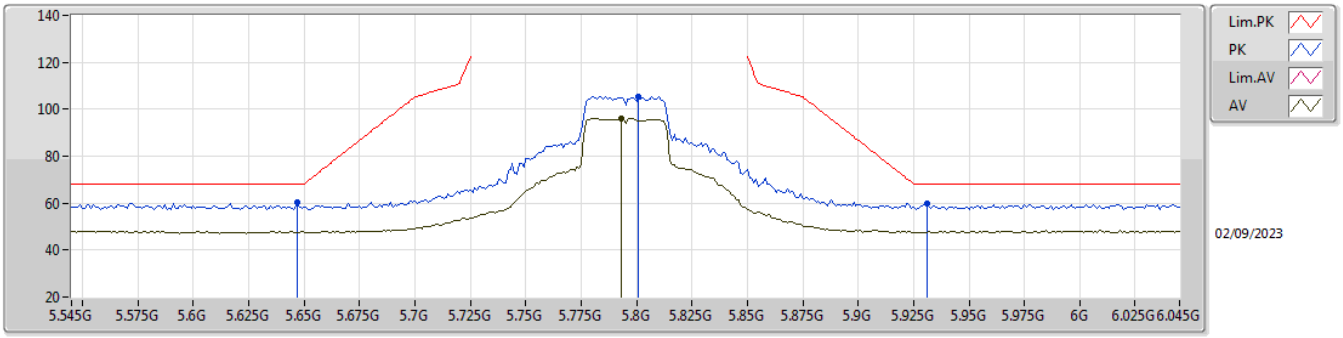


EUT Z_1TX
Setting 63
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.61G	59.92	68.20	-8.28	53.37	3	Vertical	28	1.04	-	34.40	7.10	34.95
PK	5.81G	109.78	Inf	-Inf	103.32	3	Vertical	28	1.04	-	34.30	7.21	35.05
AV	5.793G	100.23	Inf	-Inf	93.78	3	Vertical	28	1.04	-	34.29	7.20	35.04
PK	6.043G	60.14	68.20	-8.06	53.11	3	Vertical	28	1.04	-	34.79	7.36	35.12

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

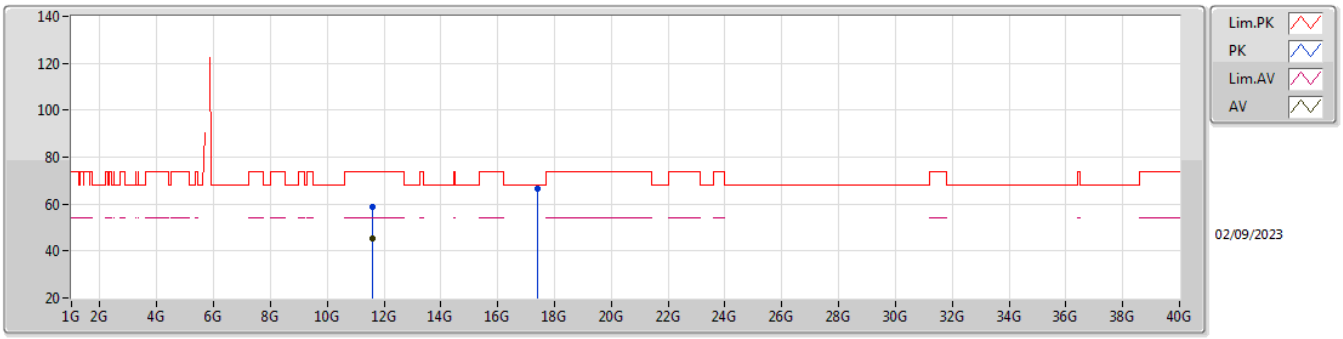


EUT Z_1TX
Setting 63
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.647G	60.34	68.20	-7.86	53.79	3	Horizontal	94	2.89	-	34.40	7.12	34.97
PK	5.801G	105.60	Inf	-Inf	99.14	3	Horizontal	94	2.89	-	34.30	7.20	35.04
AV	5.793G	96.25	Inf	-Inf	89.80	3	Horizontal	94	2.89	-	34.29	7.20	35.04
PK	5.931G	59.78	68.20	-8.42	53.06	3	Horizontal	94	2.89	-	34.56	7.27	35.11

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

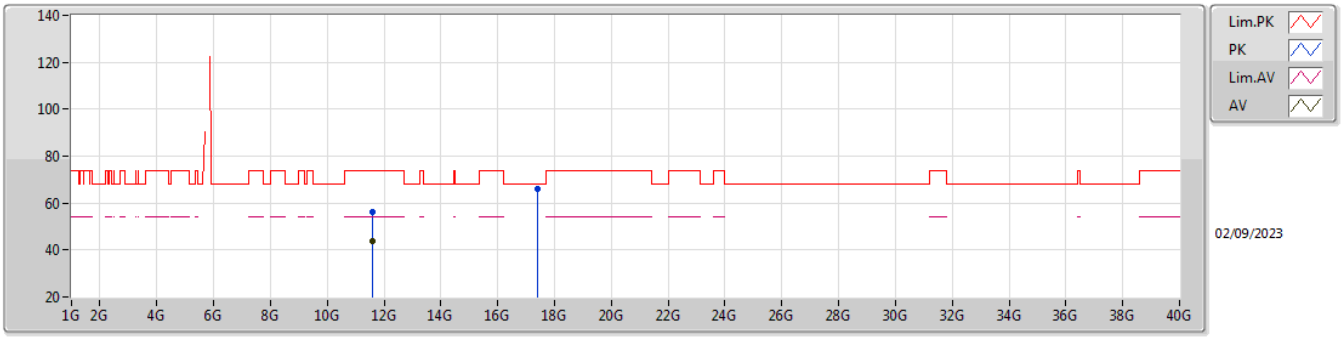


EUT Z_1TX
Setting 63
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.5882G	58.76	74.00	-15.24	71.63	3	Vertical	14	1.00	-	39.26	12.87	65.00
AV	11.59276G	45.51	54.00	-8.49	58.35	3	Vertical	14	1.00	-	39.28	12.88	65.00
PK	17.39224G	66.32	68.20	-1.88	69.51	3	Vertical	51	1.80	-	41.65	17.54	62.38

5.725-5.85GHz_802.11ac VHT40_Nss1,(MCS0)_1TX

5795MHz_TX

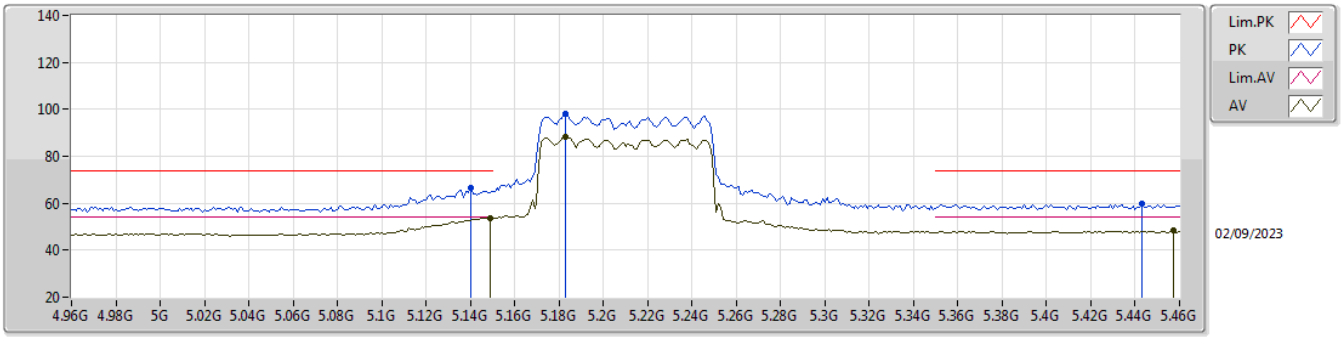


EUT Z_1TX
Setting 63
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.59708G	56.39	74.00	-17.61	69.22	3	Horizontal	226	1.80	-	39.29	12.88	65.00
AV	11.58G	43.60	54.00	-10.40	56.49	3	Horizontal	226	1.80	-	39.24	12.87	65.00
PK	17.38824G	66.00	68.20	-2.20	69.23	3	Horizontal	21	1.79	-	41.62	17.53	62.38

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

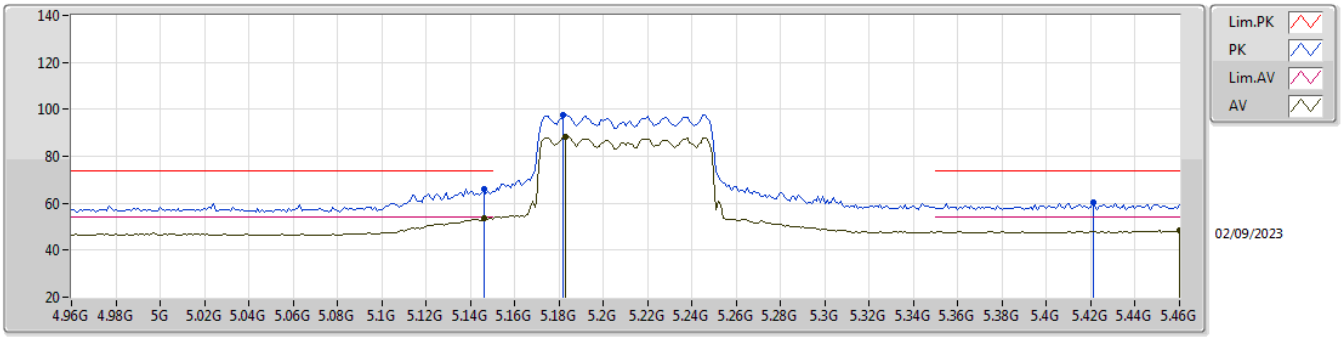


EUT Z_1TX
Setting 48
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.14G	66.72	74.00	-7.28	60.75	3	Vertical	257	2.46	-	34.08	6.74	34.85
AV	5.149G	53.80	54.00	-0.20	47.80	3	Vertical	257	2.46	-	34.10	6.75	34.85
PK	5.183G	98.11	Inf	-Inf	92.16	3	Vertical	257	2.46	-	34.03	6.78	34.86
AV	5.183G	88.34	Inf	-Inf	82.39	3	Vertical	257	2.46	-	34.03	6.78	34.86
PK	5.443G	59.67	74.00	-14.33	53.05	3	Vertical	257	2.46	-	34.57	6.94	34.89
AV	5.457G	48.43	54.00	-5.57	41.76	3	Vertical	257	2.46	-	34.60	6.96	34.89

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

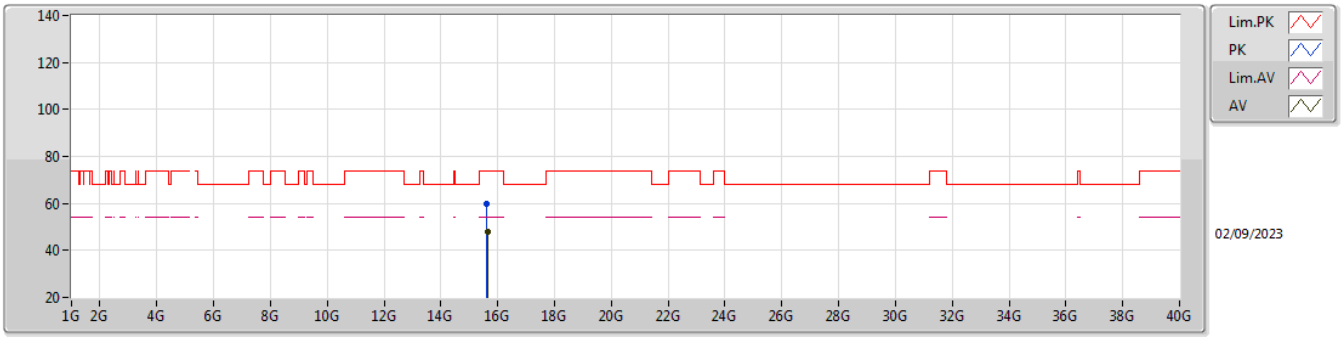


EUT Z_1TX
Setting 48
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.146G	66.09	74.00	-7.91	60.10	3	Horizontal	326	1.11	-	34.09	6.75	34.85
AV	5.146G	53.42	54.00	-0.58	47.43	3	Horizontal	326	1.11	-	34.09	6.75	34.85
PK	5.182G	97.67	Inf	-Inf	91.71	3	Horizontal	326	1.11	-	34.04	6.78	34.86
AV	5.183G	88.49	Inf	-Inf	82.54	3	Horizontal	326	1.11	-	34.03	6.78	34.86
PK	5.421G	60.12	74.00	-13.88	53.61	3	Horizontal	326	1.11	-	34.48	6.92	34.89
AV	5.46G	48.24	54.00	-5.76	41.57	3	Horizontal	326	1.11	-	34.60	6.96	34.89

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

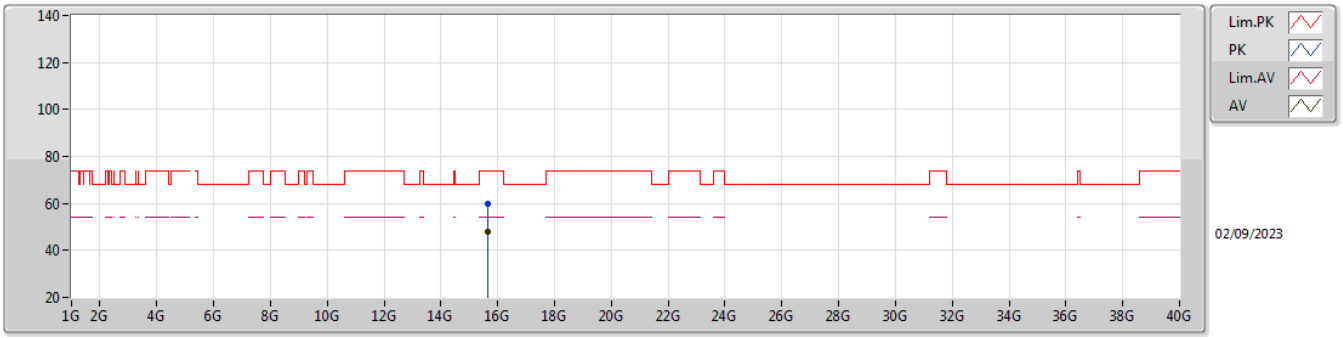


EUT Z_1TX
Setting 48
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.62972G	59.94	74.00	-14.06	67.70	3	Vertical	99	2.90	-	38.03	16.33	62.12
AV	15.63412G	48.08	54.00	-5.92	55.84	3	Vertical	99	2.90	-	38.03	16.33	62.12

5.15-5.25GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5210MHz_TX

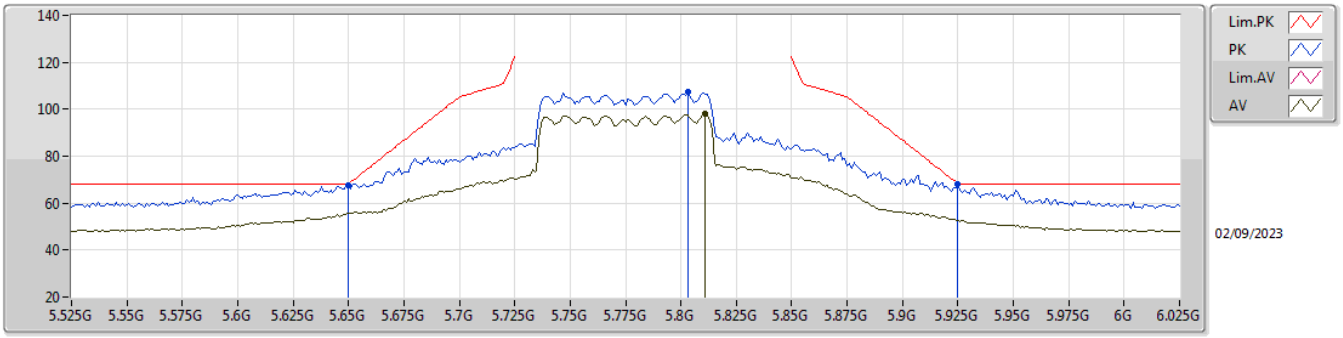


EUT Z_1TX
Setting 48
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	15.63908G	60.06	74.00	-13.94	67.81	3	Horizontal	58	1.21	-	38.04	16.34	62.13
AV	15.63236G	47.97	54.00	-6.03	55.73	3	Horizontal	58	1.21	-	38.03	16.33	62.12

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX

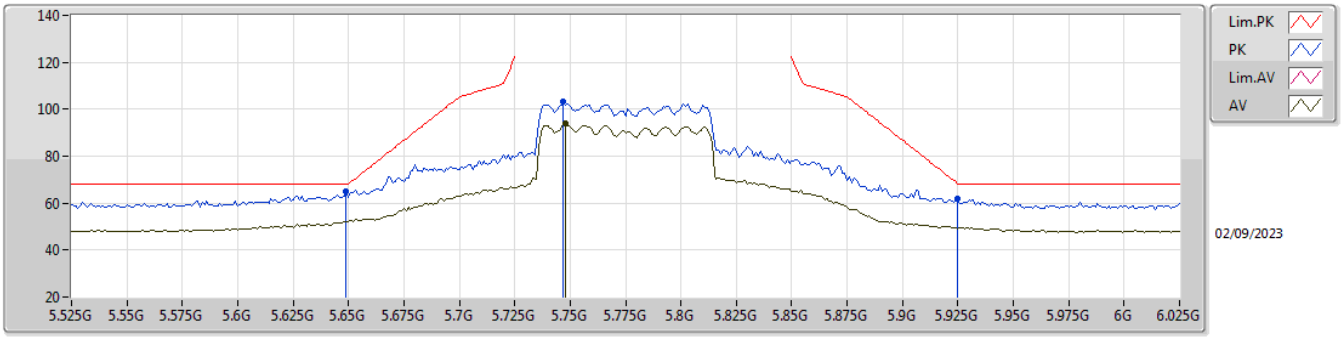


EUT Z_1TX
Setting 60
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.65G	67.33	68.20	-0.87	60.78	3	Vertical	29	1.06	-	34.40	7.12	34.97
PK	5.803G	107.50	Inf	-Inf	101.05	3	Vertical	29	1.06	-	34.30	7.20	35.05
AV	5.811G	97.93	Inf	-Inf	91.47	3	Vertical	29	1.06	-	34.30	7.21	35.05
PK	5.925G	67.96	68.20	-0.24	61.25	3	Vertical	29	1.06	-	34.55	7.26	35.10

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX

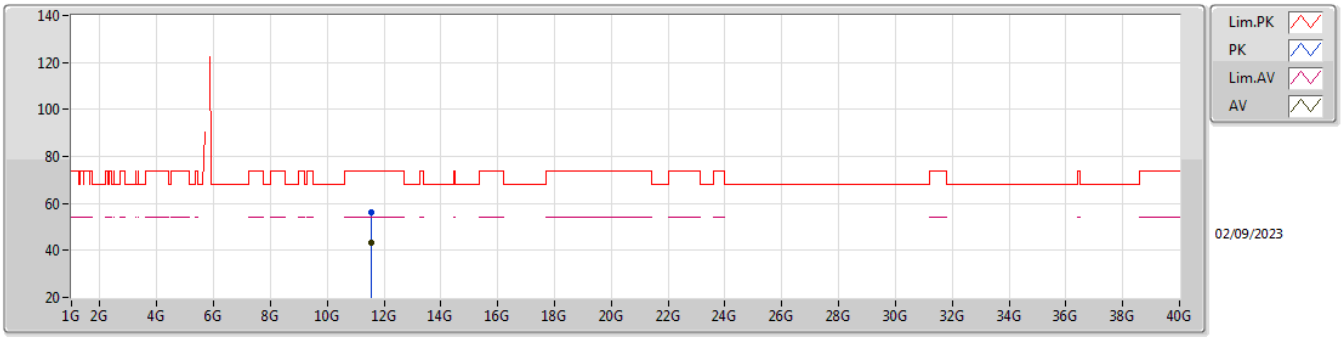


EUT Z_1TX
Setting 60
03-E-S-5-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	5.649G	64.84	68.20	-3.36	58.29	3	Horizontal	94	2.65	-	34.40	7.12	34.97
PK	5.747G	103.28	Inf	-Inf	96.93	3	Horizontal	94	2.65	-	34.20	7.17	35.02
AV	5.748G	93.71	Inf	-Inf	87.36	3	Horizontal	94	2.65	-	34.20	7.17	35.02
PK	5.925G	62.07	68.20	-6.13	55.36	3	Horizontal	94	2.65	-	34.55	7.26	35.10

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX

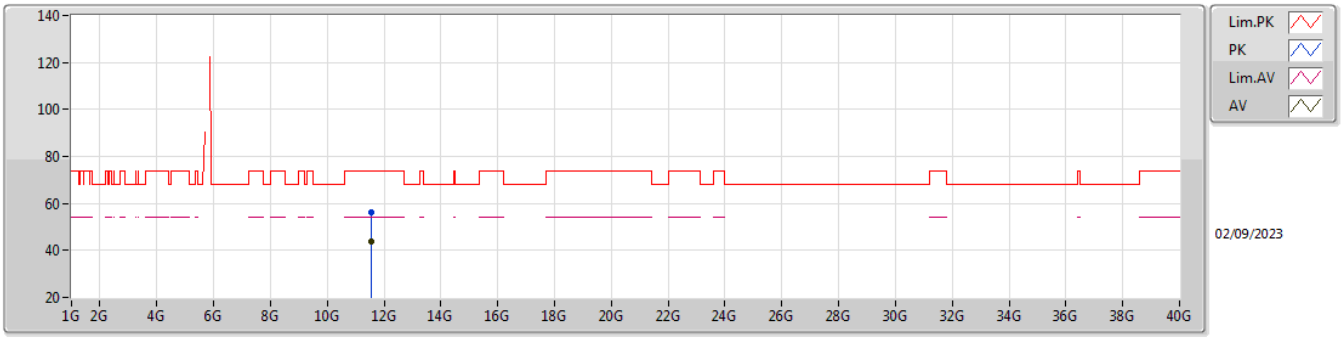


EUT Z_1TX
Setting 60
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.54528G	56.01	74.00	-17.99	69.00	3	Vertical	184	2.03	-	39.14	12.85	64.98
AV	11.55828G	43.52	54.00	-10.48	56.48	3	Vertical	184	2.03	-	39.17	12.86	64.99

5.725-5.85GHz_802.11ac VHT80_Nss1,(MCS0)_1TX

5775MHz_TX



EUT Z_1TX
Setting 60
03-E-S-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	11.55652G	56.27	74.00	-17.73	69.23	3	Horizontal	196	2.44	-	39.17	12.86	64.99
AV	11.55936G	43.77	54.00	-10.23	56.72	3	Horizontal	196	2.44	-	39.18	12.86	64.99