Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	TLZ-XM455
Equipment	:	IEEE 802.11 2X2 WiFi 6 MIMO Wireless LAN + Bluetooth 5.3 Combo LGA Module
Brand Name	:	AzureWave
Model Name	:	AW-XM455
Applicant	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Manufacturer	:	AzureWave Technologies, Inc. 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231
Standard	:	47 CFR FCC Part 15.247

The product was received on Oct. 24, 2022, and testing was started from Nov. 05, 2022 and completed on Feb. 09, 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.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR2O0714AA	01	Initial issue of report	Apr. 26, 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	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen
Report Producer: Vicky 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
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

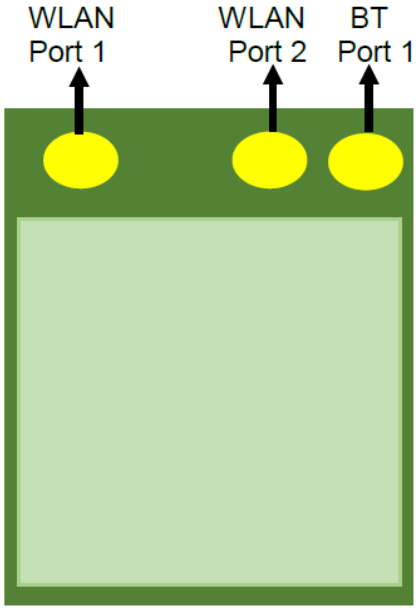
Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth					
1	1/2	1/2	1	MAG. LAYERS	MSA-4008-25GC1-A2	PIFA	I-PEX	Note 1
2	1/2	1/2	1	SONY	IW611-IW620-D(100)	Dipole	I-PEX	
3	1/2	1/2	1	SONY	IW611-IW620-D(110)	Dipole	I-PEX	
4	1/2	1/2	1	SONY	IW611-IW620-D(120)	Dipole	I-PEX	
5	1/2	1/2	1	SONY	IW611-IW620-D(130)	Dipole	I-PEX	
6	1/2	1/2	1	SONY	IW611-IW620-D(140)	Dipole	I-PEX	
7	1/2	1/2	1	SONY	IW611-IW620-D(150)	Dipole	I-PEX	
8	1/2	1/2	1	SONY	IW611-IW620-D(160)	Dipole	I-PEX	
9	1/2	1/2	1	SONY	IW611-IW620-D(170)	Dipole	I-PEX	
10	1/2	1/2	1	SONY	IW611-IW620-D(180)	Dipole	I-PEX	
11	1/2	1/2	1	SONY	IW611-IW620-D(190)	Dipole	I-PEX	
12	1/2	1/2	1	SONY	IW611-IW620-D(200)	Dipole	I-PEX	
13	1/2	1/2	1	SONY	IW611-IW620-D(210)	Dipole	I-PEX	
14	1/2	1/2	1	SONY	IW611-IW620-D(220)	Dipole	I-PEX	
15	1/2	1/2	1	SONY	IW611-IW620-D(230)	Dipole	I-PEX	
16	1/2	1/2	1	SONY	IW611-IW620-D(240)	Dipole	I-PEX	
17	1/2	1/2	1	SONY	IW611-IW620-D(250)	Dipole	I-PEX	
18	1/2	1/2	1	SONY	IW611-IW620-D(260)	Dipole	I-PEX	
19	1/2	1/2	1	SONY	IW611-IW620-D(270)	Dipole	I-PEX	
20	1/2	1/2	1	SONY	IW611-IW620-D(280)	Dipole	I-PEX	
21	1/2	1/2	1	SONY	IW611-IW620-D(290)	Dipole	I-PEX	
22	1/2	1/2	1	SONY	IW611-IW620-D(300)	Dipole	I-PEX	
23	1/2	1/2	1	SONY	IW611-IW620-D(310)	Dipole	I-PEX	
24	1/2	1/2	1	SONY	IW611-IW620-D(320)	Dipole	I-PEX	
25	1/2	1/2	1	SONY	IW611-IW620-D(330)	Dipole	I-PEX	
26	1/2	1/2	1	SONY	IW611-IW620-D(340)	Dipole	I-PEX	
27	1/2	1/2	1	SONY	IW611-IW620-D(350)	Dipole	I-PEX	
28	1/2	1/2	1	SONY	IW611-IW620-D(360)	Dipole	I-PEX	
29	1/2	1/2	1	SONY	IW611-IW620-D(370)	Dipole	I-PEX	
30	1/2	1/2	1	SONY	IW611-IW620-D(380)	Dipole	I-PEX	
31	1/2	1/2	1	SONY	IW611-IW620-D(390)	Dipole	I-PEX	
32	1/2	1/2	1	SONY	IW611-IW620-D(400)	Dipole	I-PEX	
33	1/2	1/2	1	SONY	IW611-IW620-D(410)	Dipole	I-PEX	
34	1/2	1/2	1	SONY	IW611-IW620-D(420)	Dipole	I-PEX	
35	1/2	1/2	1	SONY	IW611-IW620-D(430)	Dipole	I-PEX	
36	1/2	1/2	1	SONY	IW611-IW620-D(440)	Dipole	I-PEX	
37	1/2	1/2	1	SONY	IW611-IW620-D(450)	Dipole	I-PEX	
38	1/2	1/2	1	SONY	IW611-IW620-D(460)	Dipole	I-PEX	

39	1/2	1/2	1	SONY	IW611-IW620-D(470)	Dipole	I-PEX	Note 1
40	1/2	1/2	1	SONY	IW611-IW620-D(480)	Dipole	I-PEX	
41	1/2	1/2	1	SONY	IW611-IW620-D(490)	Dipole	I-PEX	
42	1/2	1/2	1	SONY	IW611-IW620-D(500)	Dipole	I-PEX	
43	1/2	1/2	1	SONY	IW611-IW620-D(510)	Dipole	I-PEX	
44	1/2	1/2	1	SONY	IW611-IW620-D(520)	Dipole	I-PEX	
45	1/2	1/2	1	SONY	IW611-IW620-D(530)	Dipole	I-PEX	
46	1/2	1/2	1	SONY	IW611-IW620-D(540)	Dipole	I-PEX	
47	1/2	1/2	1	SONY	IW611-IW620-D(550)	Dipole	I-PEX	
48	1/2	1/2	1	SONY	IW611-IW620-D(560)	Dipole	I-PEX	
49	1/2	1/2	1	SONY	IW611-IW620-D(570)	Dipole	I-PEX	
50	1/2	1/2	1	SONY	IW611-IW620-D(580)	Dipole	I-PEX	
51	1/2	1/2	1	SONY	IW611-IW620-D(590)	Dipole	I-PEX	
52	1/2	1/2	1	SONY	IW611-IW620-D(600)	Dipole	I-PEX	
53	1/2	1/2	1	SONY	IW611-IW620-D(610)	Dipole	I-PEX	
54	1/2	1/2	1	SONY	IW611-IW620-D(620)	Dipole	I-PEX	
55	1/2	1/2	1	SONY	IW611-IW620-D(630)	Dipole	I-PEX	
56	1/2	1/2	1	SONY	IW611-IW620-D(640)	Dipole	I-PEX	
57	1/2	1/2	1	SONY	IW611-IW620-D(650)	Dipole	I-PEX	
58	1/2	1/2	1	SONY	IW611-IW620-D(660)	Dipole	I-PEX	
59	1/2	1/2	1	SONY	IW611-IW620-D(670)	Dipole	I-PEX	
60	1/2	1/2	1	SONY	IW611-IW620-D(680)	Dipole	I-PEX	
61	1/2	1/2	1	SONY	IW611-IW620-D(690)	Dipole	I-PEX	
62	1/2	1/2	1	SONY	IW611-IW620-D(700)	Dipole	I-PEX	
63	1/2	1/2	1	SONY	IW611-IW620-D(710)	Dipole	I-PEX	
64	1/2	1/2	1	SONY	IW611-IW620-D(720)	Dipole	I-PEX	
65	1/2	1/2	1	SONY	IW611-IW620-D(730)	Dipole	I-PEX	
66	1/2	1/2	1	SONY	IW611-IW620-D(740)	Dipole	I-PEX	
67	1/2	1/2	1	SONY	IW611-IW620-D(750)	Dipole	I-PEX	
68	1/2	1/2	1	SONY	IW611-IW620-D(760)	Dipole	I-PEX	
69	1/2	1/2	1	SONY	IW611-IW620-D(770)	Dipole	I-PEX	
70	1/2	1/2	1	SONY	IW611-IW620-D(780)	Dipole	I-PEX	
71	1/2	1/2	1	SONY	IW611-IW620-D(790)	Dipole	I-PEX	
72	1/2	1/2	1	SONY	IW611-IW620-D(800)	Dipole	I-PEX	
73	1/2	1/2	1	SONY	IW611-IW620-G(100)	Dipole	I-PEX	
74	1/2	1/2	1	SONY	IW611-IW620-G(110)	Dipole	I-PEX	
75	1/2	1/2	1	SONY	IW611-IW620-G(120)	Dipole	I-PEX	
76	1/2	1/2	1	SONY	IW611-IW620-G(130)	Dipole	I-PEX	
77	1/2	1/2	1	SONY	IW611-IW620-G(140)	Dipole	I-PEX	
78	1/2	1/2	1	SONY	IW611-IW620-G(150)	Dipole	I-PEX	
79	1/2	1/2	1	SONY	IW611-IW620-G(160)	Dipole	I-PEX	
80	1/2	1/2	1	SONY	IW611-IW620-G(170)	Dipole	I-PEX	

81	1/2	1/2	1	SONY	IW611-IW620-G(180)	Dipole	I-PEX	Note 1
82	1/2	1/2	1	SONY	IW611-IW620-G(190)	Dipole	I-PEX	
83	1/2	1/2	1	SONY	IW611-IW620-G(200)	Dipole	I-PEX	
84	1/2	1/2	1	SONY	IW611-IW620-G(210)	Dipole	I-PEX	
85	1/2	1/2	1	SONY	IW611-IW620-G(220)	Dipole	I-PEX	
86	1/2	1/2	1	SONY	IW611-IW620-G(230)	Dipole	I-PEX	
87	1/2	1/2	1	SONY	IW611-IW620-G(240)	Dipole	I-PEX	
88	1/2	1/2	1	SONY	IW611-IW620-G(250)	Dipole	I-PEX	
89	1/2	1/2	1	SONY	IW611-IW620-G(260)	Dipole	I-PEX	
90	1/2	1/2	1	SONY	IW611-IW620-G(270)	Dipole	I-PEX	
91	1/2	1/2	1	SONY	IW611-IW620-G(280)	Dipole	I-PEX	
92	1/2	1/2	1	SONY	IW611-IW620-G(290)	Dipole	I-PEX	
93	1/2	1/2	1	SONY	IW611-IW620-G(300)	Dipole	I-PEX	
94	1/2	1/2	1	SONY	IW611-IW620-G(310)	Dipole	I-PEX	
95	1/2	1/2	1	SONY	IW611-IW620-G(320)	Dipole	I-PEX	
96	1/2	1/2	1	SONY	IW611-IW620-G(330)	Dipole	I-PEX	
97	1/2	1/2	1	SONY	IW611-IW620-G(340)	Dipole	I-PEX	
98	1/2	1/2	1	SONY	IW611-IW620-G(350)	Dipole	I-PEX	
99	1/2	1/2	1	SONY	IW611-IW620-G(360)	Dipole	I-PEX	
100	1/2	1/2	1	SONY	IW611-IW620-G(370)	Dipole	I-PEX	
101	1/2	1/2	1	SONY	IW611-IW620-G(380)	Dipole	I-PEX	
102	1/2	1/2	1	SONY	IW611-IW620-G(390)	Dipole	I-PEX	
103	1/2	1/2	1	SONY	IW611-IW620-G(400)	Dipole	I-PEX	
104	1/2	1/2	1	SONY	IW611-IW620-G(410)	Dipole	I-PEX	
105	1/2	1/2	1	SONY	IW611-IW620-G(420)	Dipole	I-PEX	
106	1/2	1/2	1	SONY	IW611-IW620-G(430)	Dipole	I-PEX	
107	1/2	1/2	1	SONY	IW611-IW620-G(440)	Dipole	I-PEX	
108	1/2	1/2	1	SONY	IW611-IW620-G(450)	Dipole	I-PEX	
109	1/2	1/2	1	SONY	IW611-IW620-G(460)	Dipole	I-PEX	
110	1/2	1/2	1	SONY	IW611-IW620-G(470)	Dipole	I-PEX	
111	1/2	1/2	1	SONY	IW611-IW620-G(480)	Dipole	I-PEX	
112	1/2	1/2	1	SONY	IW611-IW620-G(490)	Dipole	I-PEX	
113	1/2	1/2	1	SONY	IW611-IW620-G(500)	Dipole	I-PEX	
114	1/2	1/2	1	SONY	IW611-IW620-G(510)	Dipole	I-PEX	
115	1/2	1/2	1	SONY	IW611-IW620-G(520)	Dipole	I-PEX	
116	1/2	1/2	1	SONY	IW611-IW620-G(530)	Dipole	I-PEX	
117	1/2	1/2	1	SONY	IW611-IW620-G(540)	Dipole	I-PEX	
118	1/2	1/2	1	SONY	IW611-IW620-G(550)	Dipole	I-PEX	
119	1/2	1/2	1	SONY	IW611-IW620-G(560)	Dipole	I-PEX	
120	1/2	1/2	1	SONY	IW611-IW620-G(570)	Dipole	I-PEX	
121	1/2	1/2	1	SONY	IW611-IW620-G(580)	Dipole	I-PEX	
122	1/2	1/2	1	SONY	IW611-IW620-G(590)	Dipole	I-PEX	

123	1/2	1/2	1	SONY	IW611-IW620-G(600)	Dipole	I-PEX	
124	1/2	1/2	1	SONY	IW611-IW620-G(610)	Dipole	I-PEX	
125	1/2	1/2	1	SONY	IW611-IW620-G(620)	Dipole	I-PEX	
126	1/2	1/2	1	SONY	IW611-IW620-G(630)	Dipole	I-PEX	
127	1/2	1/2	1	SONY	IW611-IW620-G(640)	Dipole	I-PEX	
128	1/2	1/2	1	SONY	IW611-IW620-G(650)	Dipole	I-PEX	
129	1/2	1/2	1	SONY	IW611-IW620-G(660)	Dipole	I-PEX	
130	1/2	1/2	1	SONY	IW611-IW620-G(670)	Dipole	I-PEX	
131	1/2	1/2	1	SONY	IW611-IW620-G(680)	Dipole	I-PEX	
132	1/2	1/2	1	SONY	IW611-IW620-G(690)	Dipole	I-PEX	
133	1/2	1/2	1	SONY	IW611-IW620-G(700)	Dipole	I-PEX	Note 1
134	1/2	1/2	1	SONY	IW611-IW620-G(710)	Dipole	I-PEX	
135	1/2	1/2	1	SONY	IW611-IW620-G(720)	Dipole	I-PEX	
136	1/2	1/2	1	SONY	IW611-IW620-G(730)	Dipole	I-PEX	
137	1/2	1/2	1	SONY	IW611-IW620-G(740)	Dipole	I-PEX	
138	1/2	1/2	1	SONY	IW611-IW620-G(750)	Dipole	I-PEX	
139	1/2	1/2	1	SONY	IW611-IW620-G(760)	Dipole	I-PEX	
140	1/2	1/2	1	SONY	IW611-IW620-G(770)	Dipole	I-PEX	
141	1/2	1/2	1	SONY	IW611-IW620-G(780)	Dipole	I-PEX	
142	1/2	1/2	1	SONY	IW611-IW620-G(790)	Dipole	I-PEX	
143	1/2	1/2	1	SONY	IW611-IW620-G(800)	Dipole	I-PEX	

WLAN Port1 / WLAN Port2 / BT Port 1 Location



Note 1:

Ant.	Gain (dBi)	
	WLAN 2.4GHz/Bluetooth	WLAN 5GHz
1	2.98	5.16
2	0.38	1.68
3	0.35	1.63
4	0.32	1.59
5	0.28	1.54
6	0.25	1.49
7	0.22	1.45
8	0.19	1.4
9	0.16	1.36
10	0.13	1.31
11	0.09	1.26
12	0.06	1.22
13	0.03	1.17
14	0.00	1.12
15	-0.03	1.08
16	-0.06	1.03
17	-0.10	0.99
18	-0.13	0.94
19	-0.16	0.89
20	-0.19	0.85
21	-0.22	0.8
22	-0.25	0.75
23	-0.29	0.71
24	-0.32	0.66
25	-0.35	0.62
26	-0.38	0.57
27	-0.41	0.52
28	-0.44	0.48
29	-0.48	0.43
30	-0.51	0.38
31	-0.54	0.34
32	-0.57	0.29
33	-0.60	0.24
34	-0.63	0.2
35	-0.67	0.15
36	-0.70	0.11
37	-0.73	0.06
38	-0.76	0.01

39	-0.79	-0.03
40	-0.82	-0.08
41	-0.86	-0.13
42	-0.89	-0.17
43	-0.92	-0.22
44	-0.95	-0.26
45	-0.98	-0.31
46	-1.01	-0.36
47	-1.05	-0.4
48	-1.08	-0.45
49	-1.11	-0.5
50	-1.14	-0.54
51	-1.17	-0.59
52	-1.21	-0.64
53	-1.24	-0.68
54	-1.27	-0.73
55	-1.30	-0.77
56	-1.33	-0.82
57	-1.36	-0.87
58	-1.40	-0.91
59	-1.43	-0.96
60	-1.46	-1.01
61	-1.49	-1.05
62	-1.52	-1.1
63	-1.55	-1.14
64	-1.59	-1.19
65	-1.62	-1.24
66	-1.65	-1.28
67	-1.68	-1.33
68	-1.71	-1.38
69	-1.74	-1.42
70	-1.78	-1.47
71	-1.81	-1.51
72	-1.84	-1.56
73	0.29	1.36
74	0.26	1.31
75	0.23	1.27
76	0.19	1.22
77	0.16	1.17
78	0.13	1.13
79	0.10	1.08

80	0.07	1.04
81	0.04	0.99
82	0.00	0.94
83	-0.03	0.9
84	-0.06	0.85
85	-0.09	0.8
86	-0.12	0.76
87	-0.15	0.71
88	-0.19	0.67
89	-0.22	0.62
90	-0.25	0.57
91	-0.28	0.53
92	-0.31	0.48
93	-0.34	0.43
94	-0.38	0.39
95	-0.41	0.34
96	-0.44	0.3
97	-0.47	0.25
98	-0.50	0.2
99	-0.53	0.16
100	-0.57	0.11
101	-0.60	0.06
102	-0.63	0.02
103	-0.66	-0.03
104	-0.69	-0.08
105	-0.72	-0.12
106	-0.76	-0.17
107	-0.79	-0.21
108	-0.82	-0.26
109	-0.85	-0.31
110	-0.88	-0.35
111	-0.91	-0.4
112	-0.95	-0.45
113	-0.98	-0.49
114	-1.01	-0.54
115	-1.04	-0.58
116	-1.07	-0.63
117	-1.10	-0.68
118	-1.14	-0.72
119	-1.17	-0.77
120	-1.20	-0.82

121	-1.23	-0.86
122	-1.26	-0.91
123	-1.30	-0.96
124	-1.33	-1
125	-1.36	-1.05
126	-1.39	-1.09
127	-1.42	-1.14
128	-1.45	-1.19
129	-1.49	-1.23
130	-1.52	-1.28
131	-1.55	-1.33
132	-1.58	-1.37
133	-1.61	-1.42
134	-1.64	-1.46
135	-1.68	-1.51
136	-1.71	-1.56
137	-1.74	-1.6
138	-1.77	-1.65
139	-1.80	-1.7
140	-1.83	-1.74
141	-1.87	-1.79
142	-1.90	-1.83
143	-1.93	-1.88

Note2: The above information was declared by manufacturer.

For the radiated test: The EUT has two types of antenna. Only the highest gain antenna was selected from each different type of antenna to test and record in this report. Thus, Antenna 1 and 2 were selected to perform the test.

For the conducted test: The EUT has two types of antenna. Only the highest gain antenna was selected to test and record in this report. Thus, Antenna 1 was selected to perform the test.

<For WLAN 2.4GHz function>

For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For WLAN 5GHz function>

For IEEE 802.11a/n/ac/ax (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<For Bluetooth function> (1TX/1RX):

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

Each antenna port, please refer to the photographs of EUT.

Note 3: Directional gain information

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

Ex.

Directional Gain (NSS1) formula : $DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left[\sum_{k=1}^{N_{ANT}} g_{j,k}\right]^2}{N_{ANT}}\right]$

NSS1(g1,1) = $10^{G1/20}$; NSS1(g1,2)= $10^{G2/20}$

$g_{j,k}$ =(Nss1(g1,1) + Nss1(g1,2))^2

DG = 10 log[(Nss1(g1,1) + Nss1(g1,2))^2 / N_{ANT}]

=> 10 log[($10^{G1/20}$ + $10^{G2/20}$)^2 / N_{ANT}]

Where ;

Antenna Gain

2.4G G1 = 2.98 dBi; G2 = 2.98 dBi

5G Band1 G1 = 5.16dBi; G2 = 5.16 dBi

5G Band2 G1 = 5.16dBi; G2 = 5.16 dBi

5G Band3 G1 = 5.16dBi; G2 = 5.16 dBi

5G Band4 G1 = 5.16dBi; G2 = 5.16 dBi

2.4G

DG = 5.99 dBi

5G

Band1 DG = 8.17 dBi

Band2 DG = 8.17 dBi

Band3 DG = 8.17 dBi

Band4 DG = 8.17 dBi

1.1.3 Test Mode of Partial RU

Mode	Partial RU		
802.11ax HEW20	26	52	106
802.11ax HEW40	242		

1.1.4 Mode Test Duty Cycle

<Full RU>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.958	0.19	8.625m	300
802.11g	0.834	0.79	1.435m	1k
802.11ax HEW20	0.945	0.25	3.903m	300
802.11ax HEW40	0.876	0.57	1.983m	1k

<Partial RU>

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
ax20,RU26	0.881	0.55	1.359m	1k
ax20,RU52	0.876	0.57	1.359m	1k
ax20,RU106	0.883	0.54	1.359m	1k
ax40,RU242	0.959	0.18	1.359m	1k

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

1.1.5 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/11ax in 2.4GHz and 11n/11ac/11ax in 5GHz			
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☒	Partial RU
Test Software Version	DutApiMimoApApp (V 1.0.0.114)、DOS[ver 6.1.7601]			

Note: The above information was declared by manufacturer.

1.1.6 Table for Hardware Information

Hardware Version	Description
V04	The difference between V04 and V05 is the layout of DC-DC power and xtal.
V05	All RF layouts are the same.

Note: The above information was declared by manufacturer.

1.1.7 Table for EUT Combination

EUT	Hardware Version	Antenna Trace Type	Equip Antenna
1	V04	Design to PIFA use	Ant. 1
2	V05	Design to PIFA use	Ant. 1
3	V04	Design to Dipole use	Ant. 2~143
4	V05	Design to Dipole use	Ant. 2~143

Note:

After evaluating, the EUT 1~4 were selected to test AC power-line conducted emissions and Emissions in Restricted Frequency Bands below 1GHz. The EUT 2 and EUT 4 were selected to test Restricted Frequency Bands above 1GHz. The EUT 2 was selected to test other test items.

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 15.247
- ANSI C63.10-2013

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01
- 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	TH03-CB	Eason Chen	24.1-25.1 / 62-68	Nov. 11, 2022 ~ Jan. 18, 2023
Radiated (Below 1GHz)	03CH06-CB	Stim Sung	24.4-25.5 / 55-58	Jan. 30, 2023 ~ Jan. 31, 2023
Radiated (Above 1GHz)	03CH01-CB	Ken Yeh	21.6~22.1 / 59~62	Nov. 05, 2022 ~ Jan. 16, 2023
	03CH02-CB	Ken Yeh	21.9~22.3 / 60~65	Nov. 05, 2022 ~ Jan. 16, 2023
	03CH03-CB	Ken Yeh	21.8~22.2 / 61~64	Nov. 05, 2022 ~ Jan. 16, 2023
AC Conduction	CO01-CB	Elvin Yeh	22~23 / 50~51	Feb. 09, 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)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

<Full RU>

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	19
2437MHz	17
2462MHz	17
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	15
2417MHz	16
2437MHz	20
2457MHz	17.5
2462MHz	15.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	14
2417MHz	16
2437MHz	20
2457MHz	17
2462MHz	14
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	13
2427MHz	14
2437MHz	15
2452MHz	13.5
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	14
2417MHz	16
2437MHz	20
2457MHz	17
2462MHz	14
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	13
2427MHz	14
2437MHz	15
2452MHz	13.5

<Partial RU>

Mode	Power Setting
ax20,RU26_20MHz_Nss1,(MCS0)_2TX	-
2412MHz	5
2462MHz	4
ax20,RU52_20MHz_Nss1,(MCS0)_2TX	-
2412MHz	7
2462MHz	7
ax20,RU106_20MHz_Nss1,(MCS0)_2TX	-
2412MHz	10
2462MHz	10
ax40,RU242_40MHz_Nss1,(MCS0)_2TX	-
2422MHz	10
2452MHz	10

Note:
- Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- The EUT supports non-beamforming and beamforming modes, after evaluating, the non-beamforming mode has been evaluated to be the worst case, so it was selected to test. The beamforming mode evaluates the output power only.

2.2 The Worst Case Measurement Configuration

<Full RU>

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	Normal Link:EUT1-WLAN 2.4GHz+Bluetooth+Ant. 1
2	Normal Link:EUT1-WLAN 5GHz+Bluetooth+Ant. 1
3	Normal Link:EUT2-WLAN 2.4GHz+Bluetooth+Ant. 1
4	Normal Link:EUT2-WLAN 5GHz+Bluetooth+Ant. 1
5	Normal Link:EUT3-WLAN 2.4GHz+Bluetooth+Ant. 2
6	Normal Link:EUT3-WLAN 5GHz+Bluetooth+Ant. 2
7	Normal Link:EUT4-WLAN 2.4GHz+Bluetooth+Ant. 2
8	Normal Link:EUT4-WLAN 5GHz+Bluetooth+Ant. 2
For operating mode 1 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
Operating Mode	CTX
1	EUT2+Ant. 1

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT1 in X axis-WLAN 2.4GHz+Bluetooth+Ant. 1
2	EUT1 in Y axis-WLAN 2.4GHz+Bluetooth+Ant. 1
3	EUT1 in Z axis-WLAN 2.4GHz+Bluetooth+Ant. 1
Mode 3 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	

4	EUT1 in Z axis-WLAN 5GHz+Bluetooth+Ant. 1
Mode 3 has been evaluated to be the worst case among Mode 1~4, thus measurement for Mode 5 will follow this same test mode.	
5	EUT2 in Z axis-WLAN 2.4GHz+Bluetooth+Ant. 1
6	EUT3 in X axis-WLAN 2.4GHz+Bluetooth+Ant. 2
7	EUT3 in Y axis-WLAN 2.4GHz+Bluetooth+Ant. 2
8	EUT3 in Z axis-WLAN 2.4GHz+Bluetooth+Ant. 2
Mode 6 has been evaluated to be the worst case among Mode 6~8, thus measurement for Mode 9 will follow this same test mode.	
9	EUT3 in X axis-WLAN 5GHz+Bluetooth+Ant. 2
Mode 6 has been evaluated to be the worst case among Mode 6~9, thus measurement for Mode 10 will follow this same test mode.	
10	EUT4 in X axis-WLAN 2.4GHz+Bluetooth+Ant. 2
For operating mode 3 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:	
1	EUT2 + Ant. 1 (Bandedge at Y axis / Harmonic at X axis)
2	EUT4 + Ant. 2 (Bandedge at Z axis / Harmonic at Y axis)

<Partial RU>

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Conducted Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains
Operating Mode	CTX
1	EUT2+Ant. 1

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

N/A

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	Fixture	Azurewave	2455-I4	N/A
B	NB	acer	ZQW	N/A
C	Earphone	e-Power	S90W	N/A
D	Mouse	acer	MOBVUO	N/A
E	Smart phone	Samsung	Galaxy J2	A3LSMJ200F
F	AP Router	TP-LINK	Archer AX10	TE7AX10V1

For Radiated (below 1GHz):

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Fixture	Azurewave	2455-I4	N/A
C	WLAN AP	NETGEAR	WNDR3300v2	PY309300116
D	iPhone 4	Apple	A1332	BCG-E2380A
E	Mouse	Logitech	M-U0026	N/A
F	Earphone	e-Power	S90W	N/A

For Radiated (above 1GHz):
Mode 1:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Fixture	Azurewave	2455-I4	N/A

Mode 2:

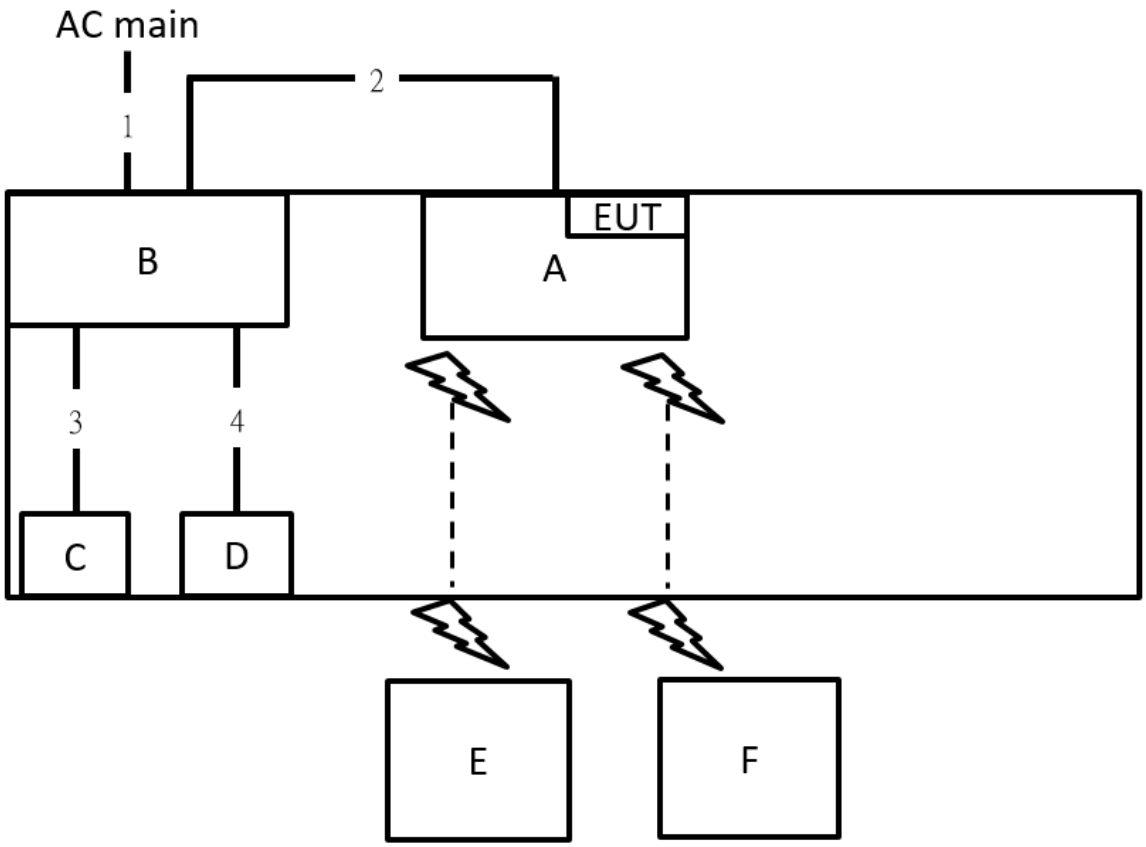
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Fixture	Azurewave	2455-I5	N/A

For RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	NB	DELL	E4300	N/A
C	Fixture	Azurewave	2455-I4	N/A

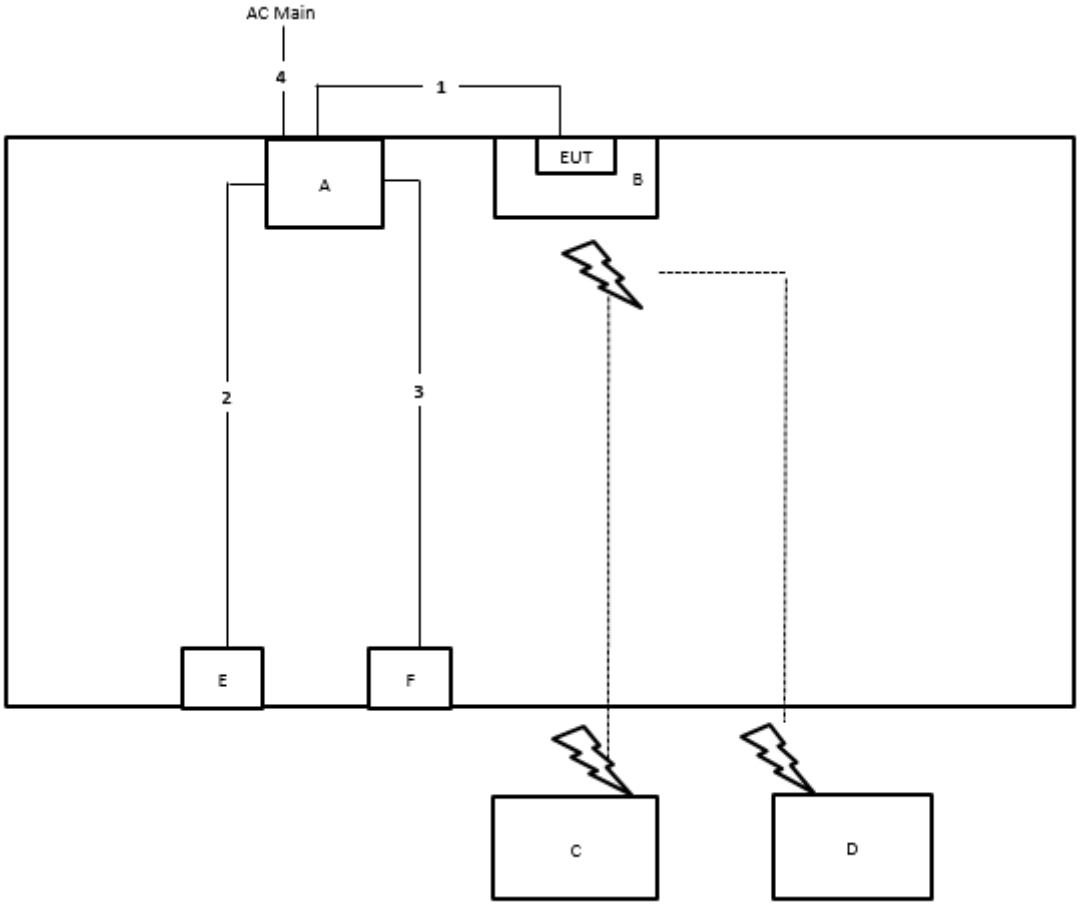
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



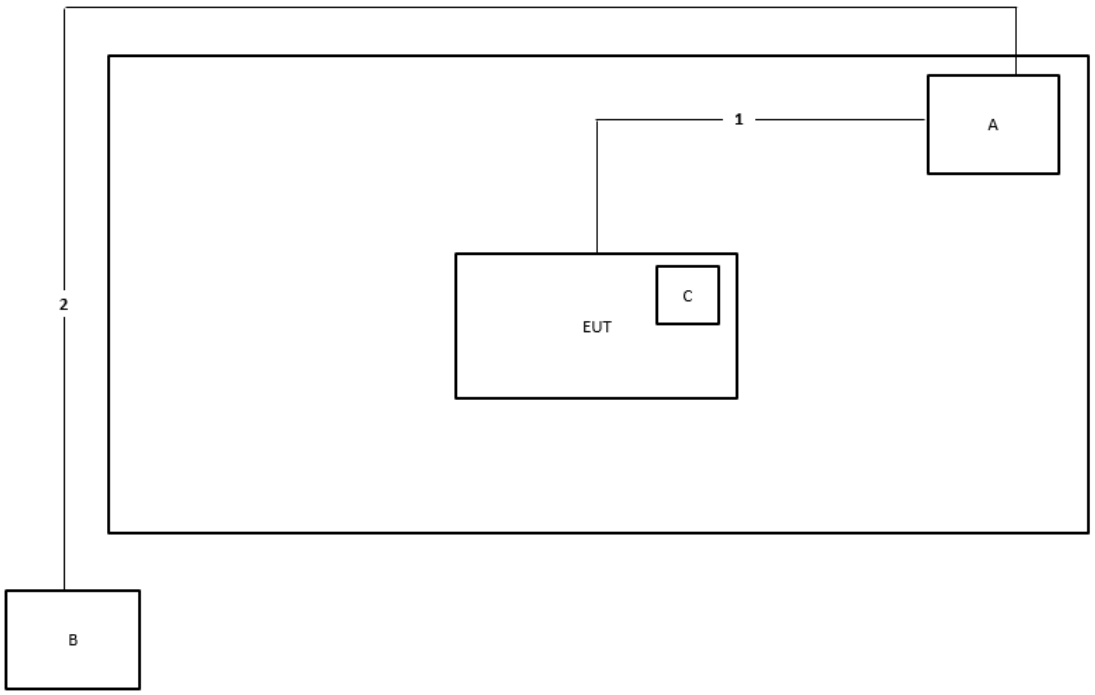
Item	Connection	Shielded	Length
1	Power cable	No	2.9m
2	USB to Type C cable	Yes	1m
3	Audio cable	No	1.2m
4	USB cable	Yes	1m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	USB to Type C cable	Yes	0.3m
2	USB cable	Yes	1m
3	Audio cable	No	1.2m
4	Power cable	No	1.5m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	USB to Type C cable	Yes	1.5m
2	RJ-45 cable	No	10m

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

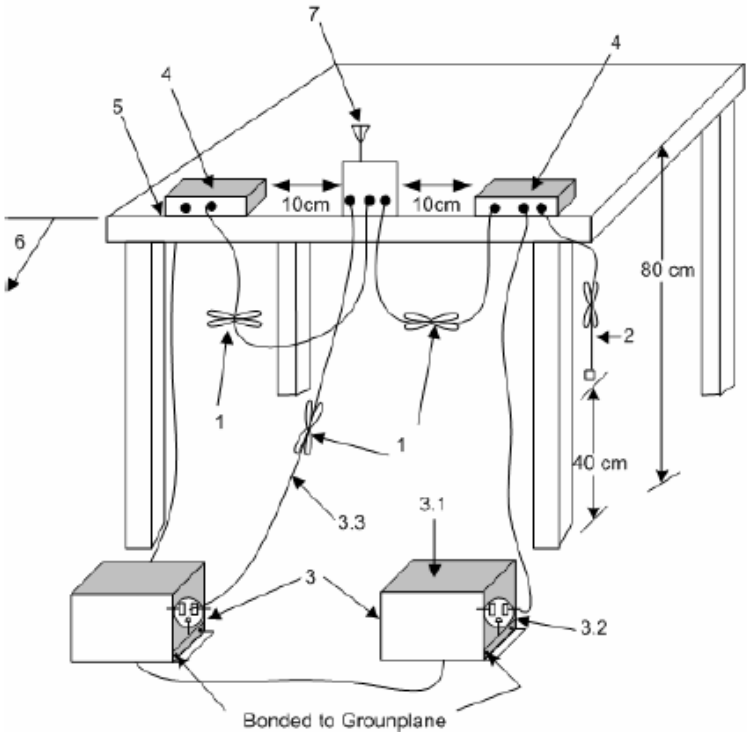
Refer a test equipment and calibration data table in this test report.

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 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

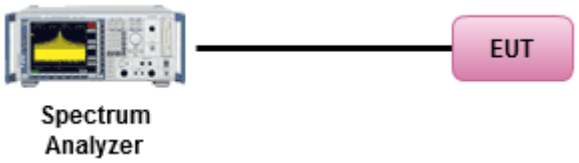
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup

Emission Bandwidth


3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate 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]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

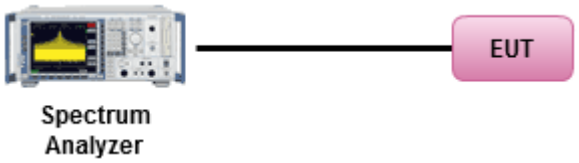
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.	
▪ 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.

3.4.4 Test Setup

Power Spectral Density


3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dBc)**
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.5.2 Measuring Instruments

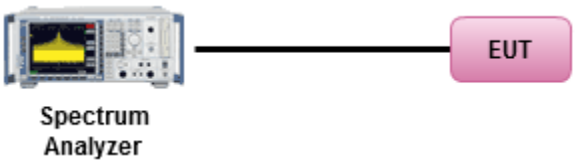
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup

Emissions in Non-restricted Frequency Bands



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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

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

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

3.6.2 Measuring Instruments

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

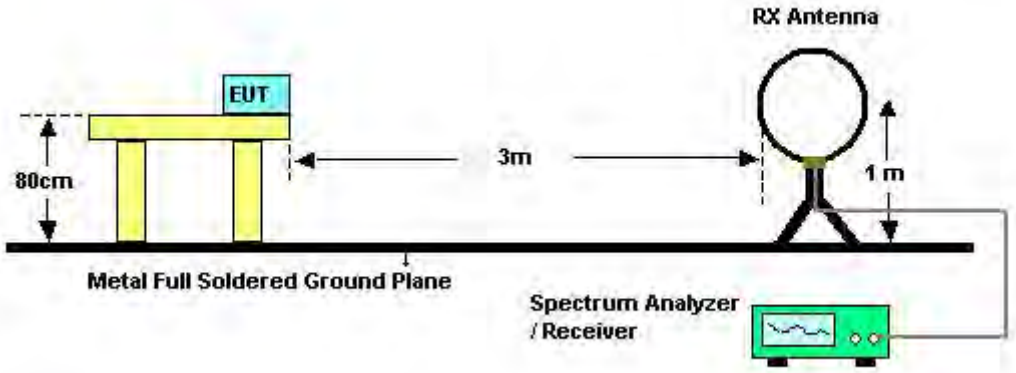
3.6.3 Test Procedures

Test Method			
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].			
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.			
▪ For the transmitter unwanted emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.		
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
		☐	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
		☒	Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
		☐	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 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:			
	▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.		
	▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.		
	▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).		
	▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB		
	▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.		

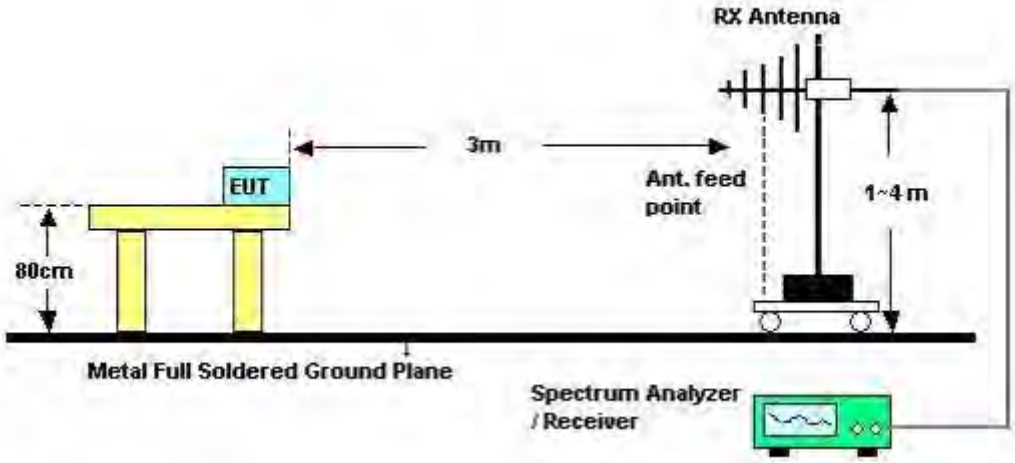
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

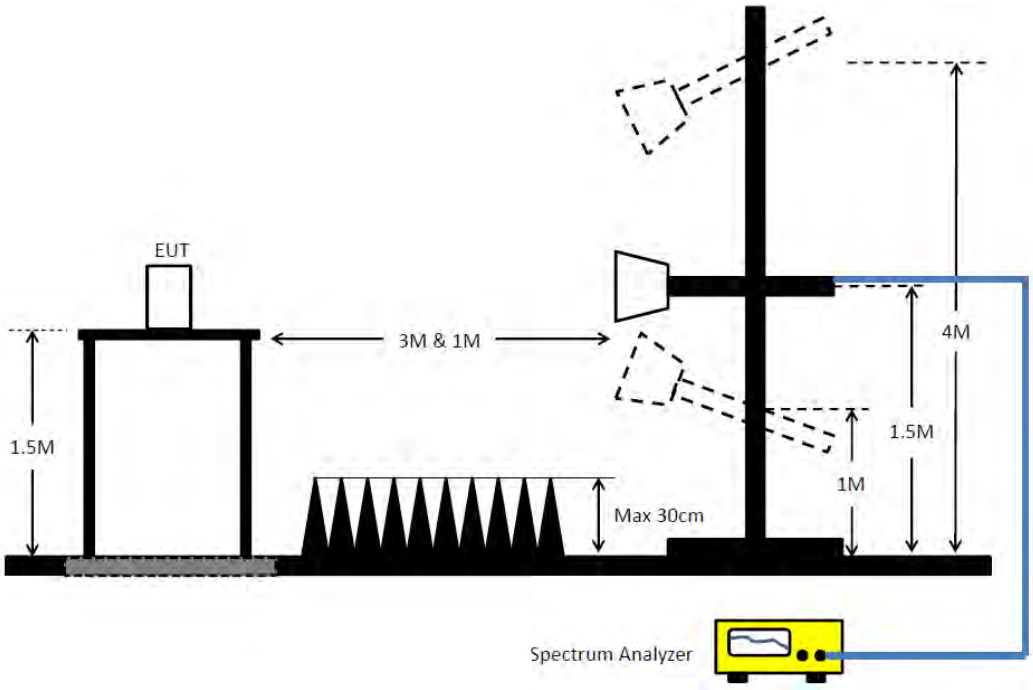
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



3.6.5 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.

3.6.6 Emissions in Restricted Frequency Bands (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.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

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. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 20, 2022	Dec. 19, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	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)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH06-CB	30 MHz ~ 1 GHz	Aug. 04, 2022	Aug. 03. 2023	Radiation (03CH06-CB)
Bilog Antenna with 6 dB attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37878 & AT-N0606	20MHz ~ 2GHz	Jul. 31, 2022	Jul. 30, 2023	Radiation (03CH06-CB)
Pre-Amplifier	Agilent	310N	187290	0.1MHz ~ 1GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH06-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH06-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH06-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH06-CB)
RF Cable-low	Woken	RG402	Low Cable-24+68	30MHz~1GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH06-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH06-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 04, 2022	Nov. 03, 2023	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH01-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 22, 2022	Aug. 21, 2023	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSP	100593	9kHz~40GHz	Apr. 08, 2022	Apr. 07, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 03, 2022	Oct. 02, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#6	1GHz ~ 40 GHz	Dec. 07, 2022	Dec. 06, 2023	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 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+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	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. 08, 2021	Dec. 07, 2022	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#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	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)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 07, 2022	Jan. 06, 2023	Conducted (TH03-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Dec. 30, 2022	Dec. 29, 2023	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Jul. 31, 2022	Jul. 30, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-11	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-12	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-13	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 03, 2022	Oct. 02, 2023	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 GHz –26.5 GHz	Oct. 04, 2022	Oct. 03, 2023	Conducted (TH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH03-CB)

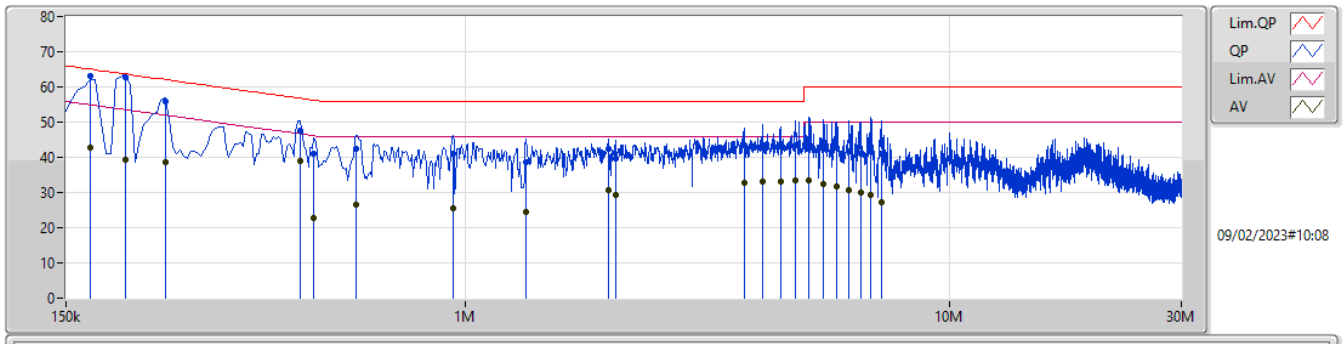
Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

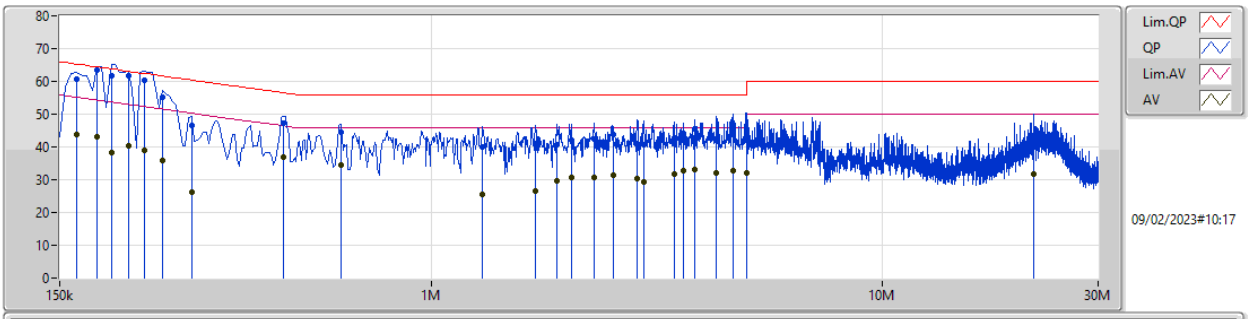
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	QP	181.5k	63.40	64.41	-1.01	Neutral

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	168k	63.11	65.06	-1.95	9.99	Line	-	53.12	0.06	0.04	9.89
AV	168k	42.81	55.06	-12.25	9.99	Line	-	32.82	0.06	0.04	9.89
QP	199.5k	62.61	63.63	-1.02	9.99	Line	"Worst"	52.62	0.06	0.04	9.89
AV	199.5k	39.46	53.63	-14.17	9.99	Line	-	29.47	0.06	0.04	9.89
QP	240k	55.92	62.10	-6.18	10.00	Line	-	45.92	0.06	0.05	9.89
AV	240k	38.79	52.10	-13.31	10.00	Line	-	28.79	0.06	0.05	9.89
QP	456k	47.55	56.76	-9.21	10.01	Line	-	37.54	0.06	0.06	9.89
AV	456k	38.95	46.76	-7.81	10.01	Line	-	28.94	0.06	0.06	9.89
QP	487.5k	41.14	56.21	-15.07	10.01	Line	-	31.13	0.06	0.06	9.89
AV	487.5k	22.64	46.21	-23.57	10.01	Line	-	12.63	0.06	0.06	9.89
QP	595.5k	42.41	56.00	-13.59	10.00	Line	-	32.41	0.06	0.05	9.89
AV	595.5k	26.65	46.00	-19.35	10.00	Line	-	16.65	0.06	0.05	9.89
QP	942k	41.04	56.00	-14.96	10.00	Line	-	31.04	0.07	0.04	9.89
AV	942k	25.42	46.00	-20.58	10.00	Line	-	15.42	0.07	0.04	9.89
QP	1.334M	38.64	56.00	-17.36	10.03	Line	-	28.61	0.08	0.06	9.89
AV	1.334M	24.44	46.00	-21.56	10.03	Line	-	14.41	0.08	0.06	9.89
QP	1.973M	42.50	56.00	-13.50	10.07	Line	-	32.43	0.09	0.09	9.89
AV	1.973M	30.73	46.00	-15.27	10.07	Line	-	20.66	0.09	0.09	9.89
QP	2.04M	39.80	56.00	-16.20	10.07	Line	-	29.73	0.09	0.09	9.89
AV	2.04M	29.44	46.00	-16.56	10.07	Line	-	19.37	0.09	0.09	9.89
QP	3.755M	43.40	56.00	-12.60	10.11	Line	-	33.29	0.12	0.10	9.89
AV	3.755M	32.91	46.00	-13.09	10.11	Line	-	22.80	0.12	0.10	9.89
QP	4.101M	43.26	56.00	-12.74	10.11	Line	-	33.15	0.12	0.10	9.89
AV	4.101M	33.07	46.00	-12.93	10.11	Line	-	22.96	0.12	0.10	9.89
QP	4.47M	43.87	56.00	-12.13	10.13	Line	-	33.74	0.13	0.11	9.89
AV	4.47M	33.27	46.00	-12.73	10.13	Line	-	23.14	0.13	0.11	9.89
QP	4.803M	43.31	56.00	-12.69	10.14	Line	-	33.17	0.14	0.11	9.89
AV	4.803M	33.58	46.00	-12.42	10.14	Line	-	23.44	0.14	0.11	9.89
QP	5.114M	44.36	60.00	-15.64	10.17	Line	-	34.19	0.15	0.12	9.90
AV	5.114M	33.40	50.00	-16.60	10.17	Line	-	23.23	0.15	0.12	9.90
QP	5.483M	42.64	60.00	-17.36	10.17	Line	-	32.47	0.15	0.12	9.90
AV	5.483M	32.38	50.00	-17.62	10.17	Line	-	22.21	0.15	0.12	9.90
QP	5.838M	42.62	60.00	-17.38	10.18	Line	-	32.44	0.16	0.12	9.90
AV	5.838M	31.74	50.00	-18.26	10.18	Line	-	21.56	0.16	0.12	9.90
QP	6.189M	41.68	60.00	-18.32	10.20	Line	-	31.48	0.17	0.13	9.90
AV	6.189M	30.77	50.00	-19.23	10.20	Line	-	20.57	0.17	0.13	9.90
QP	6.531M	40.97	60.00	-19.03	10.20	Line	-	30.77	0.17	0.13	9.90
AV	6.531M	30.06	50.00	-19.94	10.20	Line	-	19.86	0.17	0.13	9.90
QP	6.851M	41.56	60.00	-18.44	10.22	Line	-	31.34	0.18	0.14	9.90
AV	6.851M	29.31	50.00	-20.69	10.22	Line	-	19.09	0.18	0.14	9.90
QP	7.211M	41.17	60.00	-18.83	10.22	Line	-	30.95	0.18	0.14	9.90
AV	7.211M	27.35	50.00	-22.65	10.22	Line	-	17.13	0.18	0.14	9.90

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	163.5k	60.75	65.27	-4.52	10.00	Neutral	-	50.75	0.07	0.04	9.89
AV	163.5k	43.63	55.27	-11.64	10.00	Neutral	-	33.63	0.07	0.04	9.89
QP	181.5k	63.40	64.41	-1.01	10.00	Neutral	"Worst"	53.40	0.07	0.04	9.89
AV	181.5k	43.08	54.41	-11.33	10.00	Neutral	-	33.08	0.07	0.04	9.89
QP	195k	61.58	63.82	-2.24	10.00	Neutral	-	51.58	0.07	0.04	9.89
AV	195k	38.32	53.82	-15.50	10.00	Neutral	-	28.32	0.07	0.04	9.89
QP	213k	61.74	63.09	-1.35	10.00	Neutral	-	51.74	0.07	0.04	9.89
AV	213k	40.47	53.09	-12.62	10.00	Neutral	-	30.47	0.07	0.04	9.89
QP	231k	60.33	62.41	-2.08	10.00	Neutral	-	50.33	0.07	0.04	9.89
AV	231k	38.99	52.41	-13.42	10.00	Neutral	-	28.99	0.07	0.04	9.89
QP	253.5k	55.16	61.64	-6.48	10.01	Neutral	-	45.15	0.07	0.05	9.89
AV	253.5k	35.80	51.64	-15.84	10.01	Neutral	-	25.79	0.07	0.05	9.89
QP	294k	46.44	60.42	-13.98	10.01	Neutral	-	36.43	0.07	0.05	9.89
AV	294k	26.27	50.42	-24.15	10.01	Neutral	-	16.26	0.07	0.05	9.89
QP	469.5k	47.41	56.52	-9.11	10.02	Neutral	-	37.39	0.07	0.06	9.89
AV	469.5k	36.82	46.52	-9.70	10.02	Neutral	-	26.80	0.07	0.06	9.89
QP	631.5k	44.36	56.00	-11.64	10.01	Neutral	-	34.35	0.07	0.05	9.89
AV	631.5k	34.48	46.00	-11.52	10.01	Neutral	-	24.47	0.07	0.05	9.89
QP	1.298M	40.07	56.00	-15.93	10.04	Neutral	-	30.03	0.09	0.06	9.89
AV	1.298M	25.36	46.00	-20.64	10.04	Neutral	-	15.32	0.09	0.06	9.89
QP	1.698M	41.19	56.00	-14.81	10.07	Neutral	-	31.12	0.10	0.08	9.89
AV	1.698M	26.48	46.00	-19.52	10.07	Neutral	-	16.41	0.10	0.08	9.89
QP	1.896M	40.78	56.00	-15.22	10.08	Neutral	-	30.70	0.10	0.09	9.89
AV	1.896M	29.54	46.00	-16.46	10.08	Neutral	-	19.46	0.10	0.09	9.89
QP	2.045M	42.19	56.00	-13.81	10.08	Neutral	-	32.11	0.10	0.09	9.89
AV	2.045M	30.73	46.00	-15.27	10.08	Neutral	-	20.65	0.10	0.09	9.89
QP	2.292M	42.27	56.00	-13.73	10.09	Neutral	-	32.18	0.11	0.09	9.89
AV	2.292M	30.80	46.00	-15.20	10.09	Neutral	-	20.71	0.11	0.09	9.89
QP	2.522M	43.95	56.00	-12.05	10.09	Neutral	-	33.86	0.11	0.09	9.89
AV	2.522M	31.42	46.00	-14.58	10.09	Neutral	-	21.33	0.11	0.09	9.89
QP	2.859M	41.20	56.00	-14.80	10.11	Neutral	-	31.09	0.12	0.10	9.89
AV	2.859M	30.28	46.00	-15.72	10.11	Neutral	-	20.17	0.12	0.10	9.89
QP	2.954M	40.71	56.00	-15.29	10.11	Neutral	-	30.60	0.12	0.10	9.89
AV	2.954M	29.37	46.00	-16.63	10.11	Neutral	-	19.26	0.12	0.10	9.89
QP	3.449M	42.63	56.00	-13.37	10.11	Neutral	-	32.52	0.12	0.10	9.89
AV	3.449M	31.89	46.00	-14.11	10.11	Neutral	-	21.78	0.12	0.10	9.89
QP	3.611M	44.00	56.00	-12.00	10.12	Neutral	-	33.88	0.13	0.10	9.89
AV	3.611M	32.90	46.00	-13.10	10.12	Neutral	-	22.78	0.13	0.10	9.89
QP	3.836M	45.36	56.00	-10.64	10.12	Neutral	-	35.24	0.13	0.10	9.89
AV	3.836M	33.21	46.00	-12.79	10.12	Neutral	-	23.09	0.13	0.10	9.89
QP	4.286M	42.13	56.00	-13.87	10.13	Neutral	-	32.00	0.14	0.10	9.89
AV	4.286M	32.15	46.00	-13.85	10.13	Neutral	-	22.02	0.14	0.10	9.89
QP	4.65M	44.99	56.00	-11.01	10.15	Neutral	-	34.84	0.15	0.11	9.89
AV	4.65M	32.93	46.00	-13.07	10.15	Neutral	-	22.78	0.15	0.11	9.89
QP	4.983M	42.12	56.00	-13.88	10.16	Neutral	-	31.96	0.16	0.11	9.89
AV	4.983M	32.09	46.00	-13.91	10.16	Neutral	-	21.93	0.16	0.11	9.89
QP	21.642M	41.59	60.00	-18.41	10.50	Neutral	-	31.09	0.30	0.24	9.96
AV	21.642M	31.85	50.00	-18.15	10.50	Neutral	-	21.35	0.30	0.24	9.96

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.075M	13.638M	13M6G1D	10.025M	13.507M
802.11g_Nss1,(6Mbps)_2TX	16.35M	17.353M	17M4D1D	16.325M	16.524M
802.11ax HEW20_Nss1,(MCS0)_2TX	18.475M	18.856M	18M9D1D	18.125M	18.758M
802.11ax HEW40_Nss1,(MCS0)_2TX	37.3M	37.515M	37M5D1D	36.05M	37.466M

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

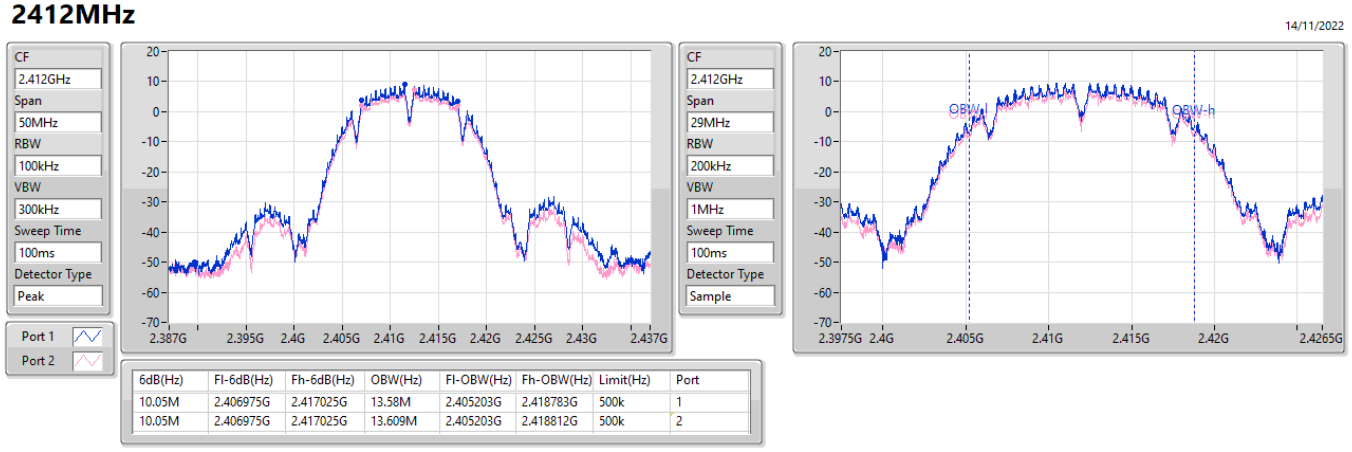
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.05M	13.58M	10.05M	13.609M
2437MHz	Pass	500k	10.05M	13.551M	10.025M	13.536M
2462MHz	Pass	500k	10.075M	13.638M	10.075M	13.507M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.325M	16.545M	16.35M	16.524M
2437MHz	Pass	500k	16.325M	17.353M	16.325M	17.119M
2462MHz	Pass	500k	16.325M	16.588M	16.35M	16.524M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	18.475M	18.782M	18.125M	18.758M
2437MHz	Pass	500k	18.275M	18.856M	18.4M	18.856M
2462MHz	Pass	500k	18.275M	18.782M	18.35M	18.782M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.9M	37.466M	36.25M	37.515M
2437MHz	Pass	500k	36.9M	37.466M	36.05M	37.466M
2452MHz	Pass	500k	37.3M	37.466M	36.6M	37.515M

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

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX EBW

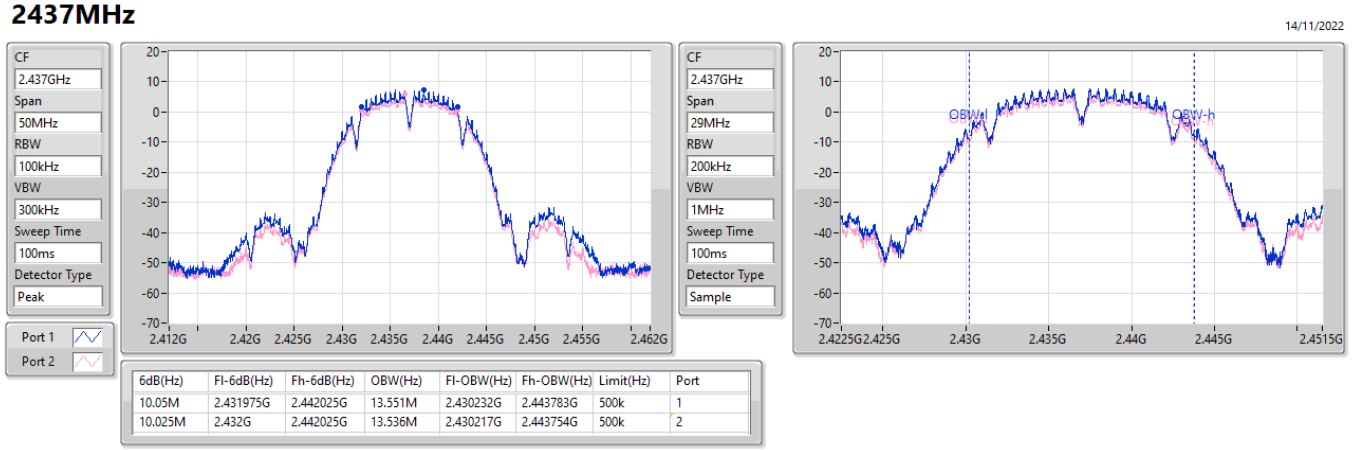
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.406975G	2.417025G	13.58M	2.405203G	2.418783G	500k	1
10.05M	2.406975G	2.417025G	13.609M	2.405203G	2.418812G	500k	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX EBW

2437MHz

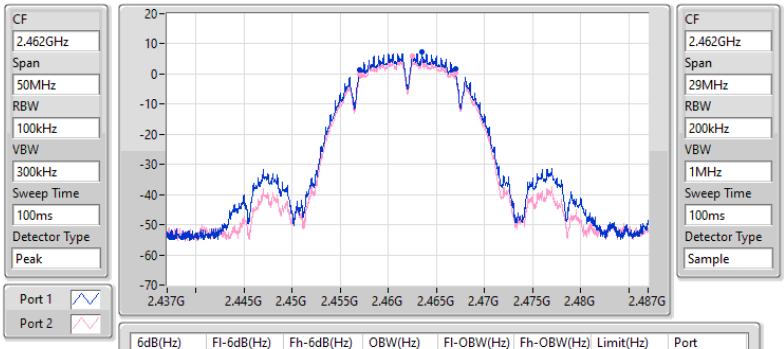


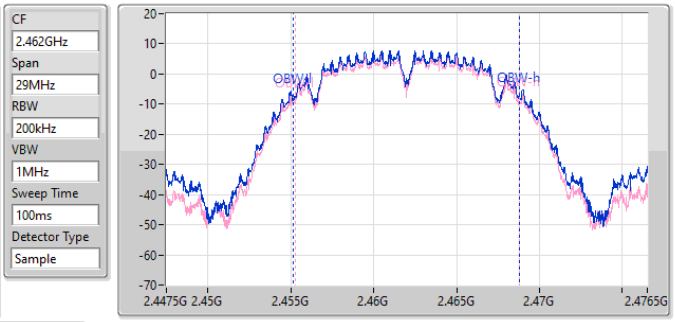
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.05M	2.431975G	2.442025G	13.551M	2.430232G	2.443783G	500k	1
10.025M	2.432G	2.442025G	13.536M	2.430217G	2.443754G	500k	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX EBW

2462MHz

14/11/2022



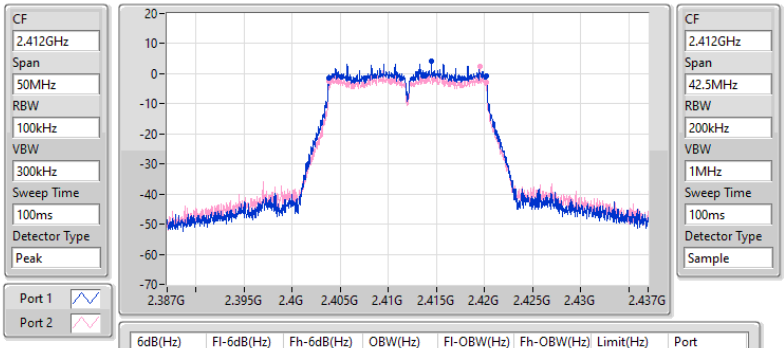


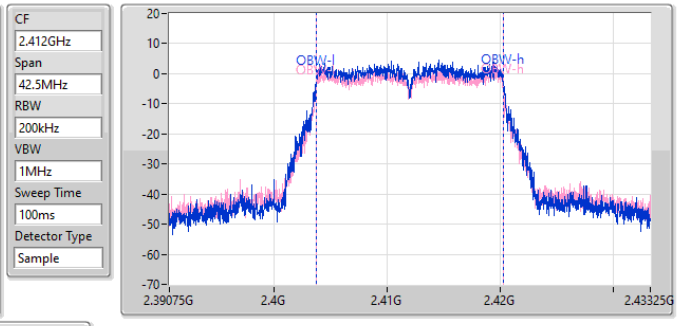
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
10.075M	2.45695G	2.467025G	13.638M	2.455174G	2.468812G	500k	1
10.075M	2.45695G	2.467025G	13.507M	2.455261G	2.468768G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX EBW

2412MHz

14/11/2022

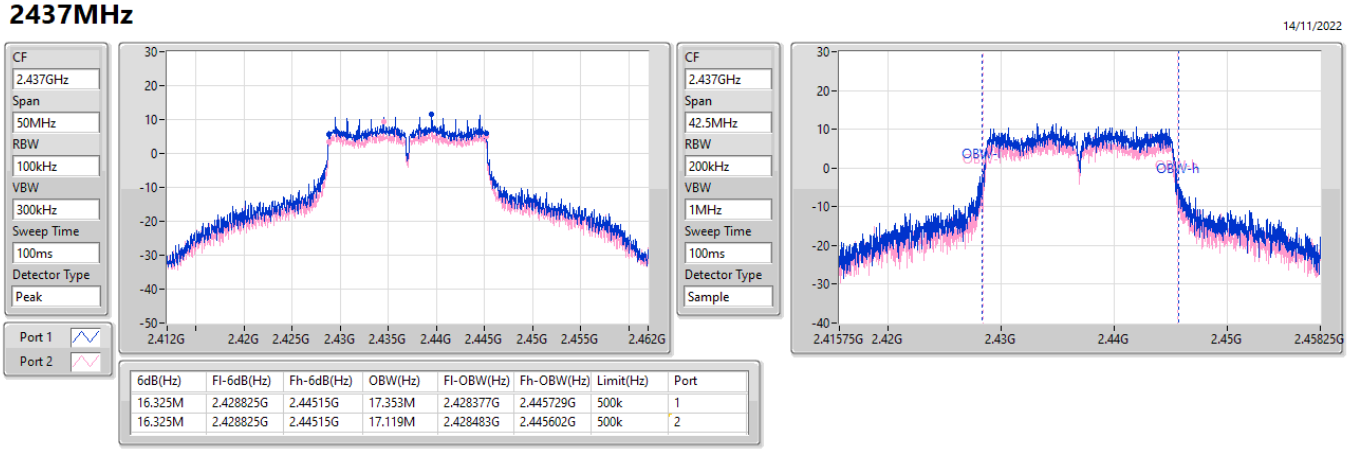




6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.403825G	2.42015G	16.545M	2.403695G	2.420241G	500k	1
16.35M	2.403825G	2.420175G	16.524M	2.403717G	2.420241G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX EBW

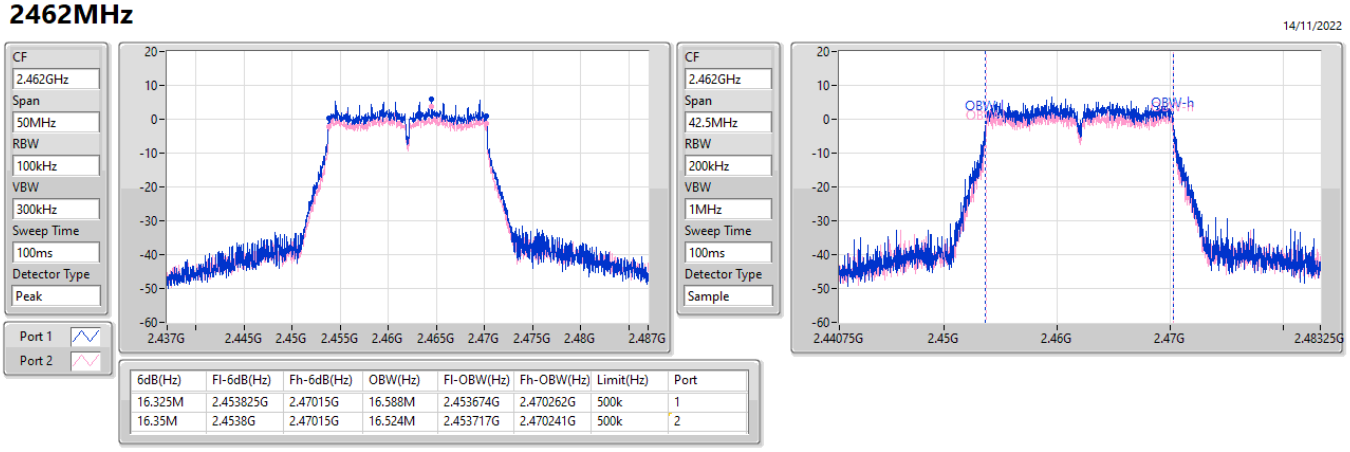
2437MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	17.353M	2.428377G	2.445729G	500k	1
16.325M	2.428825G	2.44515G	17.119M	2.428483G	2.445602G	500k	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX EBW

2462MHz

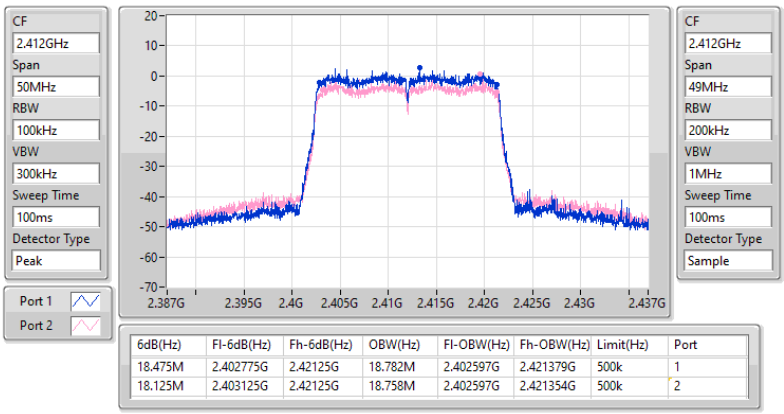


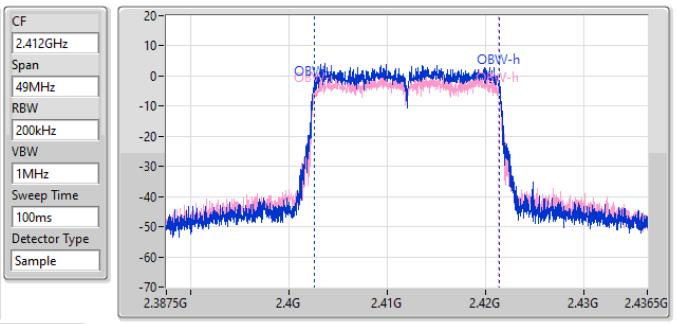
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.453825G	2.47015G	16.588M	2.453674G	2.470262G	500k	1
16.35M	2.4538G	2.47015G	16.524M	2.453717G	2.470241G	500k	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2412MHz

14/11/2022



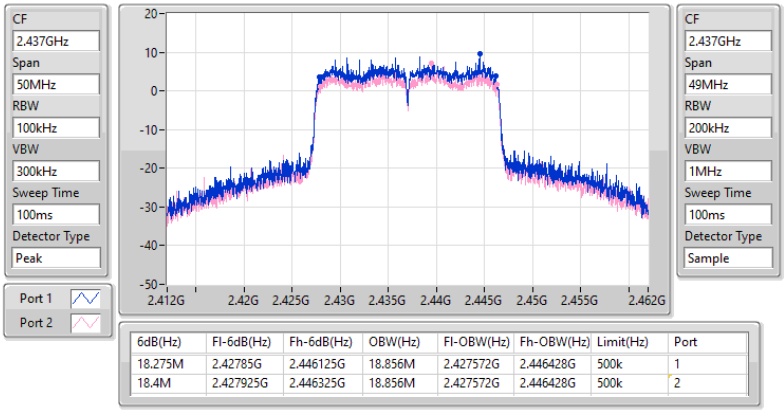


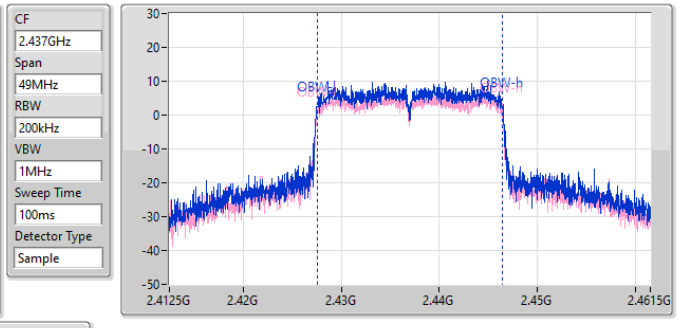
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.475M	2.402775G	2.42125G	18.782M	2.402597G	2.421379G	500k	1
18.125M	2.403125G	2.42125G	18.758M	2.402597G	2.421354G	500k	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2437MHz

14/11/2022



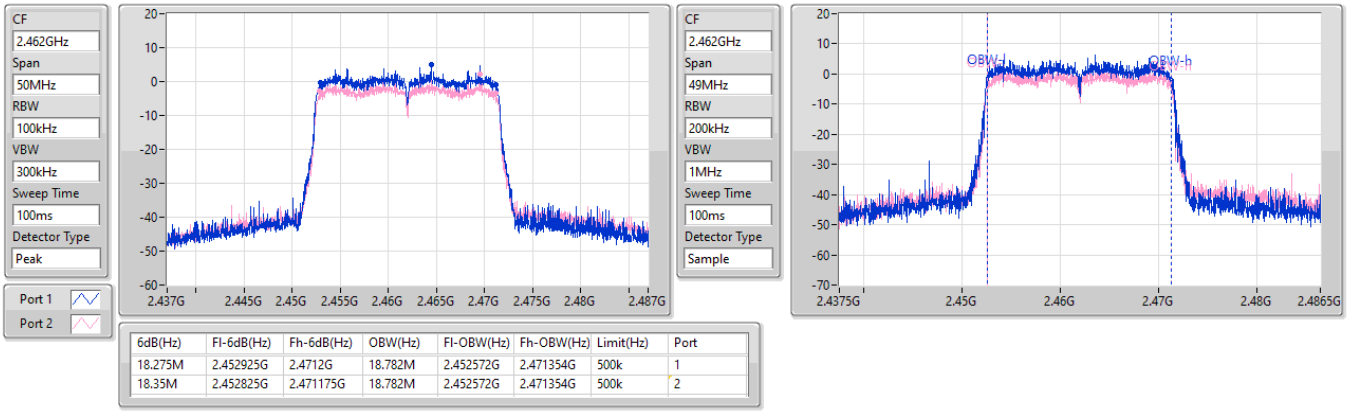


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.275M	2.42785G	2.446125G	18.856M	2.427572G	2.446428G	500k	1
18.4M	2.427925G	2.446325G	18.856M	2.427572G	2.446428G	500k	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX EBW

2462MHz

14/11/2022

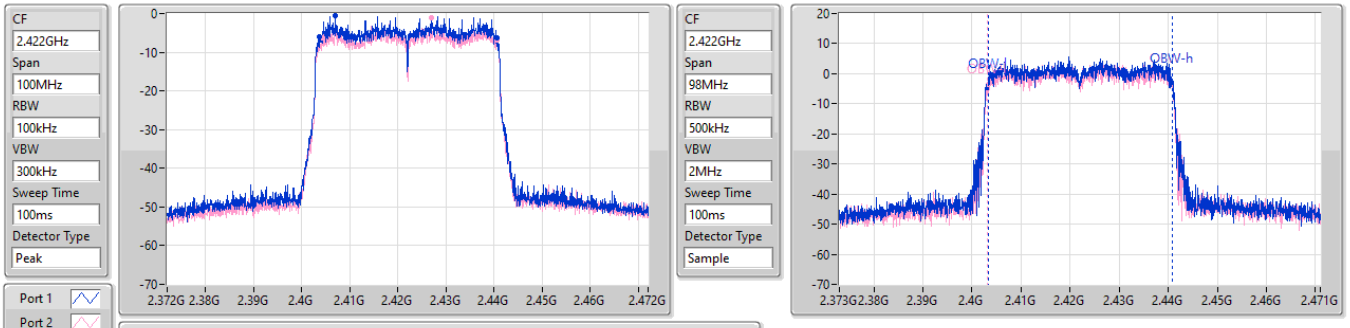


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.275M	2.452925G	2.4712G	18.782M	2.452572G	2.471354G	500k	1
18.35M	2.452825G	2.471175G	18.782M	2.452572G	2.471354G	500k	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2422MHz

14/11/2022

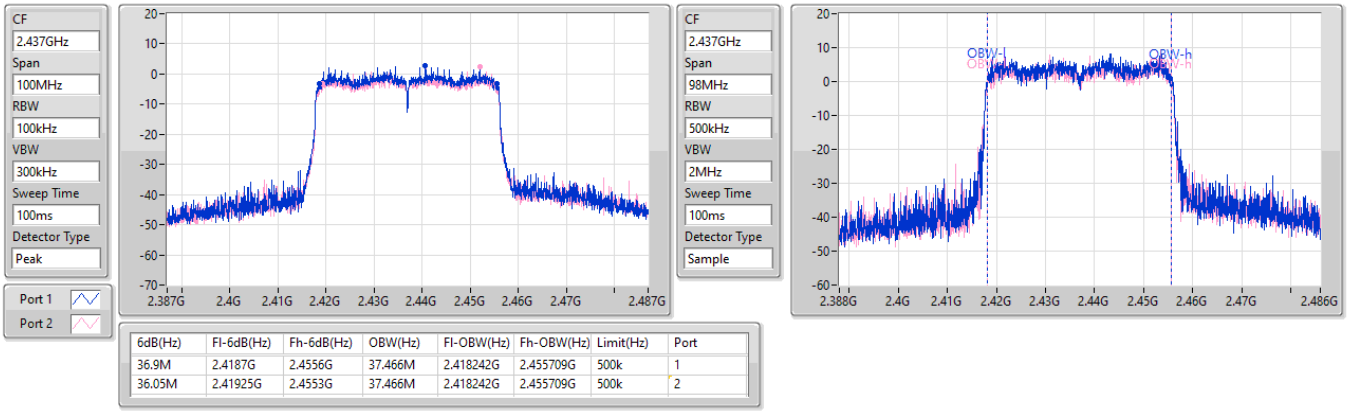


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.9M	2.40375G	2.44065G	37.466M	2.403291G	2.440758G	500k	1
36.25M	2.40425G	2.4405G	37.515M	2.403242G	2.440758G	500k	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2437MHz

14/11/2022

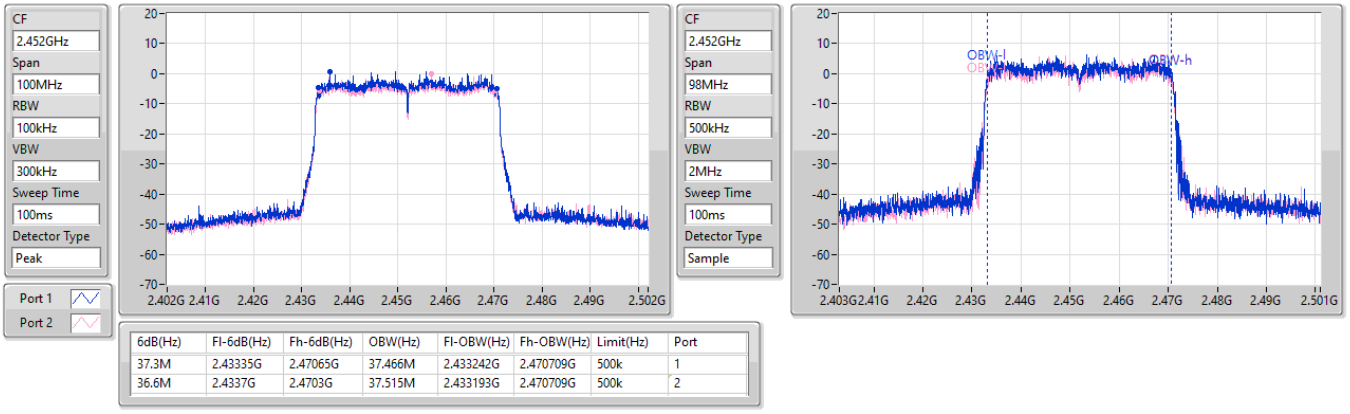


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
36.9M	2.4187G	2.4556G	37.466M	2.418242G	2.455709G	500k	1
36.05M	2.41925G	2.4553G	37.466M	2.418242G	2.455709G	500k	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX EBW

2452MHz

14/11/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.3M	2.43335G	2.47065G	37.466M	2.433242G	2.470709G	500k	1
36.6M	2.4337G	2.4703G	37.515M	2.433193G	2.470709G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	20.75	0.11885
802.11g_Nss1,(6Mbps)_2TX	22.94	0.19679
802.11ax HEW20_Nss1,(MCS0)_2TX	22.59	0.18155
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	22.59	0.18155
802.11ax HEW40_Nss1,(MCS0)_2TX	18.07	0.06412
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	18.07	0.06412

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	18.44	16.91	20.75	30.00
2437MHz	Pass	2.98	16.90	15.47	19.25	30.00
2462MHz	Pass	2.98	16.84	15.44	19.21	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	14.83	13.15	17.08	30.00
2417MHz	Pass	2.98	15.97	15.02	18.53	30.00
2437MHz	Pass	2.98	20.05	19.81	22.94	30.00
2457MHz	Pass	2.98	17.95	16.17	20.16	30.00
2462MHz	Pass	2.98	16.01	15.06	18.57	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	14.25	13.12	16.73	30.00
2417MHz	Pass	2.98	16.25	15.15	18.75	30.00
2437MHz	Pass	2.98	20.24	18.81	22.59	30.00
2457MHz	Pass	2.98	17.68	16.21	20.02	30.00
2462MHz	Pass	2.98	14.83	14.02	17.45	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.98	13.62	12.34	16.04	30.00
2427MHz	Pass	2.98	14.68	13.35	17.08	30.00
2437MHz	Pass	2.98	15.51	14.56	18.07	30.00
2452MHz	Pass	2.98	14.43	13.14	16.84	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	14.25	13.12	16.73	30.00
2417MHz	Pass	5.99	16.25	15.15	18.75	30.00
2437MHz	Pass	5.99	20.24	18.81	22.59	30.00
2457MHz	Pass	5.99	17.68	16.21	20.02	30.00
2462MHz	Pass	5.99	14.83	14.02	17.45	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.99	13.62	12.34	16.04	30.00
2427MHz	Pass	5.99	14.68	13.35	17.08	30.00
2437MHz	Pass	5.99	15.51	14.56	18.07	30.00
2452MHz	Pass	5.99	14.43	13.14	16.84	30.00

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

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
ax20,RU106_20MHz_Nss1,(MCS0)_2TX	13.47	0.02223
ax20,RU26_20MHz_Nss1,(MCS0)_2TX	7.91	0.00618
ax20,RU52_20MHz_Nss1,(MCS0)_2TX	10.30	0.01072
ax40,RU242_40MHz_Nss1,(MCS0)_2TX	13.91	0.02460

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
ax20,RU26_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	5.09	4.70	7.91	30.00
2462MHz	Pass	2.98	4.52	3.97	7.26	30.00
ax20,RU52_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	7.29	6.79	10.06	30.00
2462MHz	Pass	2.98	7.58	6.97	10.30	30.00
ax20,RU106_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	2.98	10.41	9.73	13.09	30.00
2462MHz	Pass	2.98	10.73	10.17	13.47	30.00
ax40,RU242_40MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	2.98	10.59	10.16	13.39	30.00
2452MHz	Pass	2.98	11.10	10.68	13.91	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-1.11
802.11g_Nss1,(6Mbps)_2TX	-5.43
802.11ax HEW20_Nss1,(MCS0)_2TX	-4.98
802.11ax HEW40_Nss1,(MCS0)_2TX	-12.08

RBW = 3kHz;

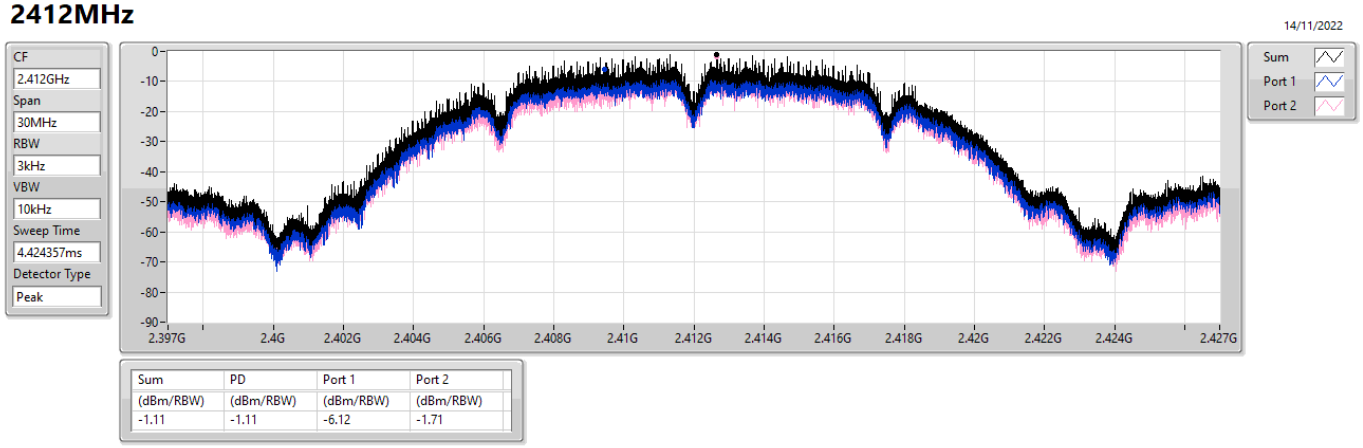
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-6.12	-1.71	-1.11	8.00
2437MHz	Pass	5.99	-8.84	-3.25	-2.57	8.00
2462MHz	Pass	5.99	-7.06	-8.38	-4.72	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-12.17	-12.75	-10.28	8.00
2437MHz	Pass	5.99	-7.27	-7.76	-5.43	8.00
2462MHz	Pass	5.99	-10.91	-11.21	-8.43	8.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-12.90	-15.01	-11.11	8.00
2437MHz	Pass	5.99	-6.08	-9.06	-4.98	8.00
2462MHz	Pass	5.99	-13.63	-13.17	-11.45	8.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.99	-14.97	-16.77	-14.25	8.00
2437MHz	Pass	5.99	-14.01	-14.00	-12.08	8.00
2452MHz	Pass	5.99	-16.33	-16.36	-14.60	8.00

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

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX PSD

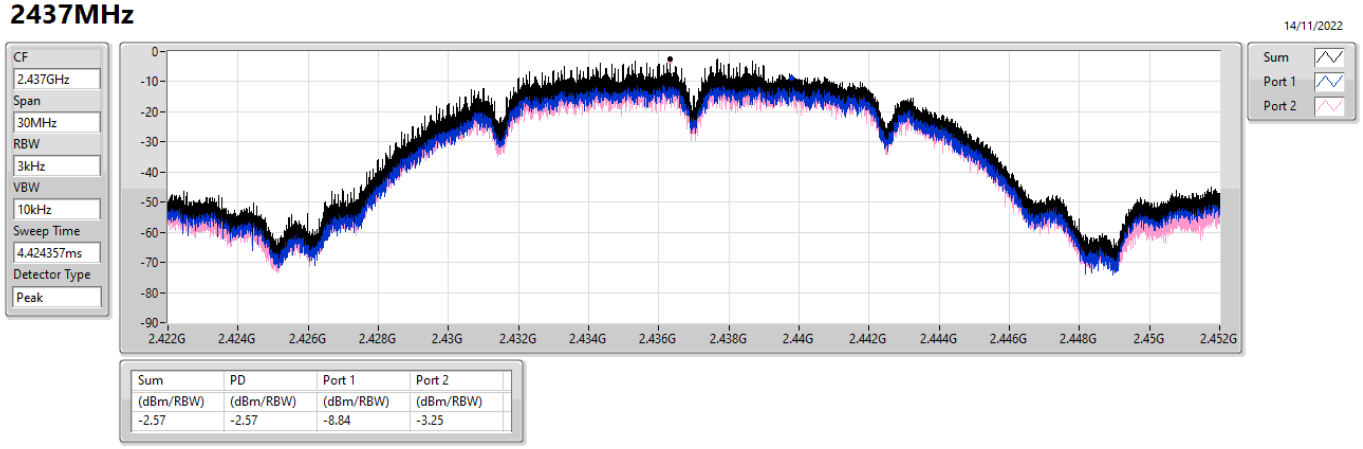
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.11	-1.11	-6.12	-1.71

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX PSD

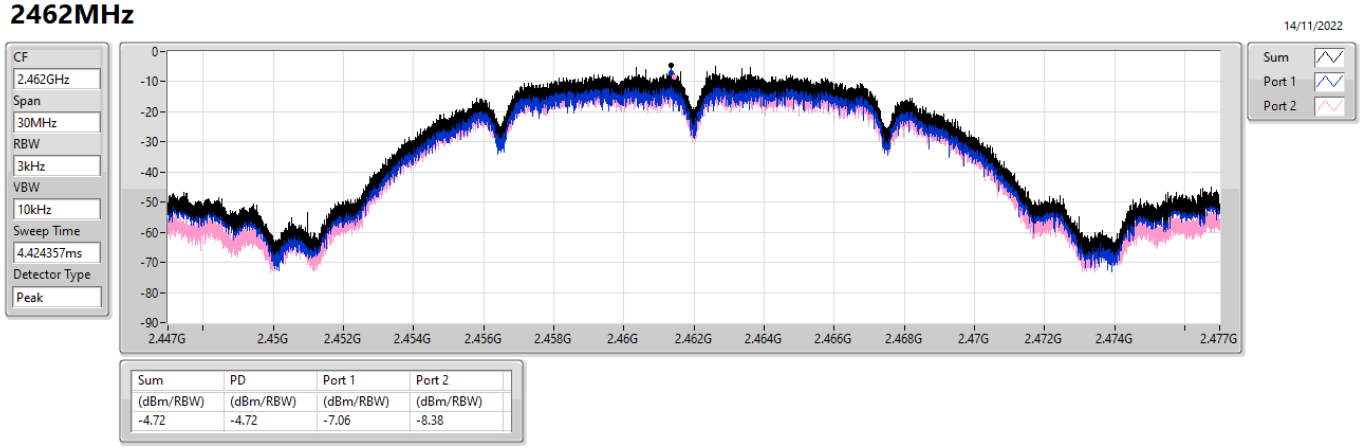
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.57	-2.57	-8.84	-3.25

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **PSD**

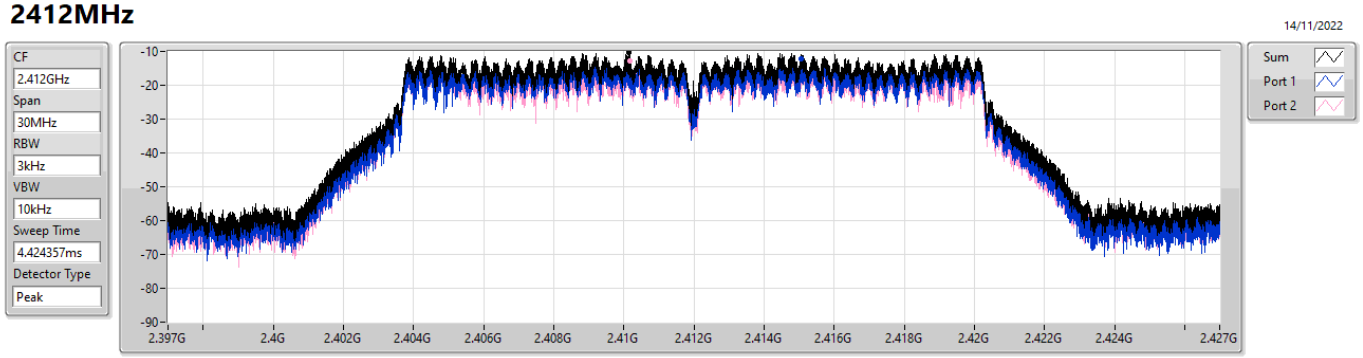
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.72	-4.72	-7.06	-8.38

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

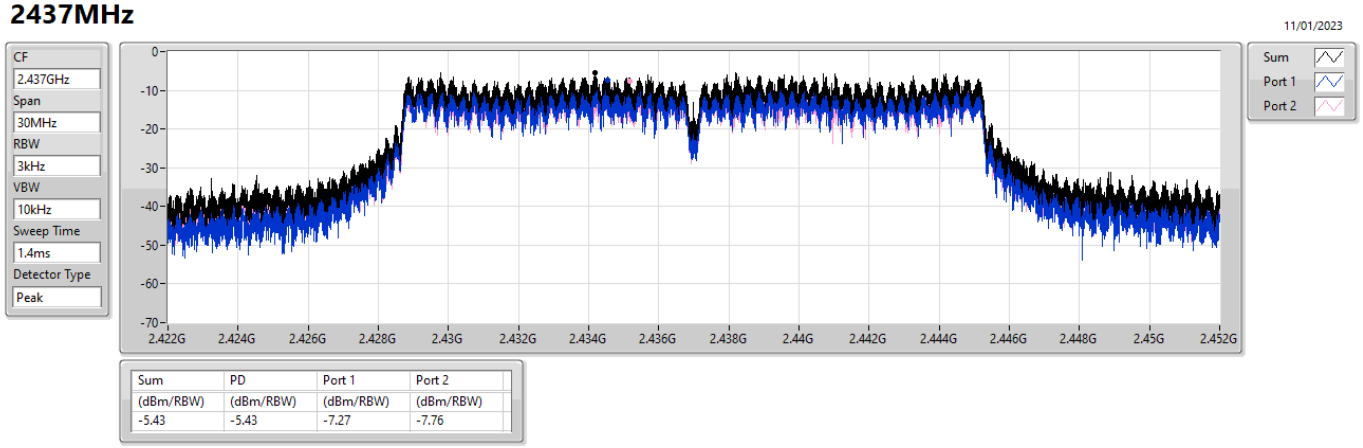
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.28	-10.28	-12.17	-12.75

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

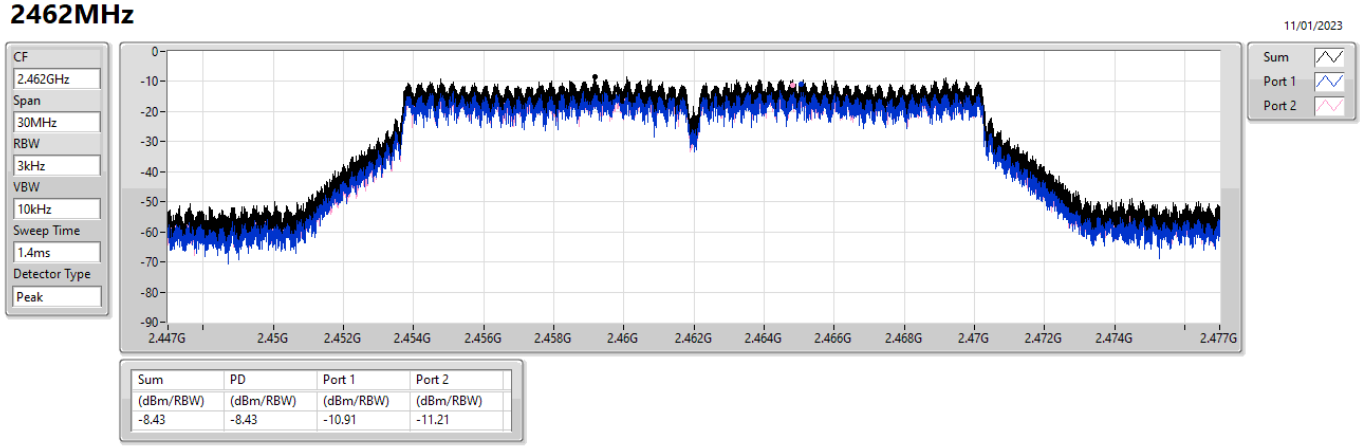
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.43	-5.43	-7.27	-7.76

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **PSD**

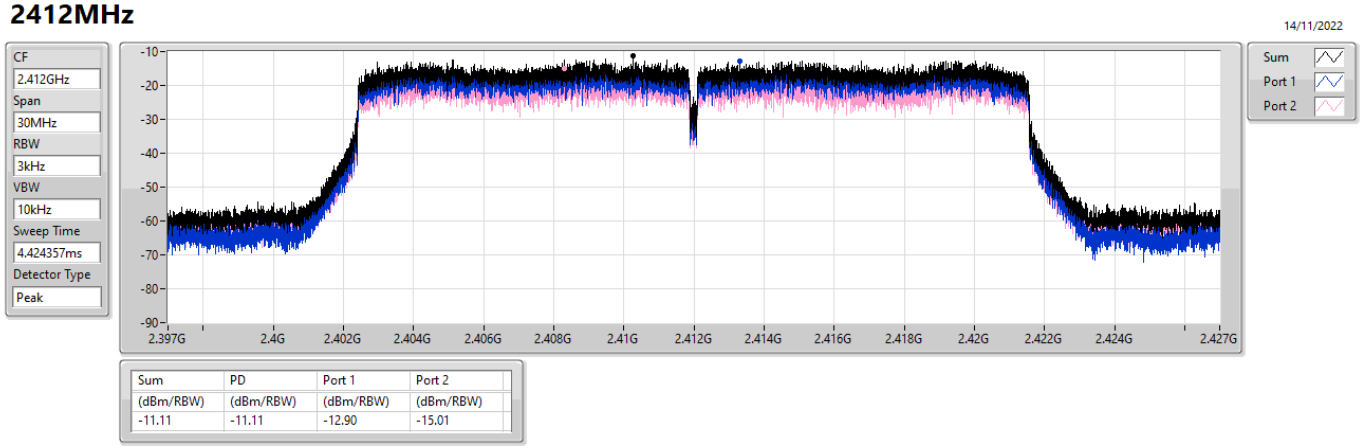
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.43	-8.43	-10.91	-11.21

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX PSD

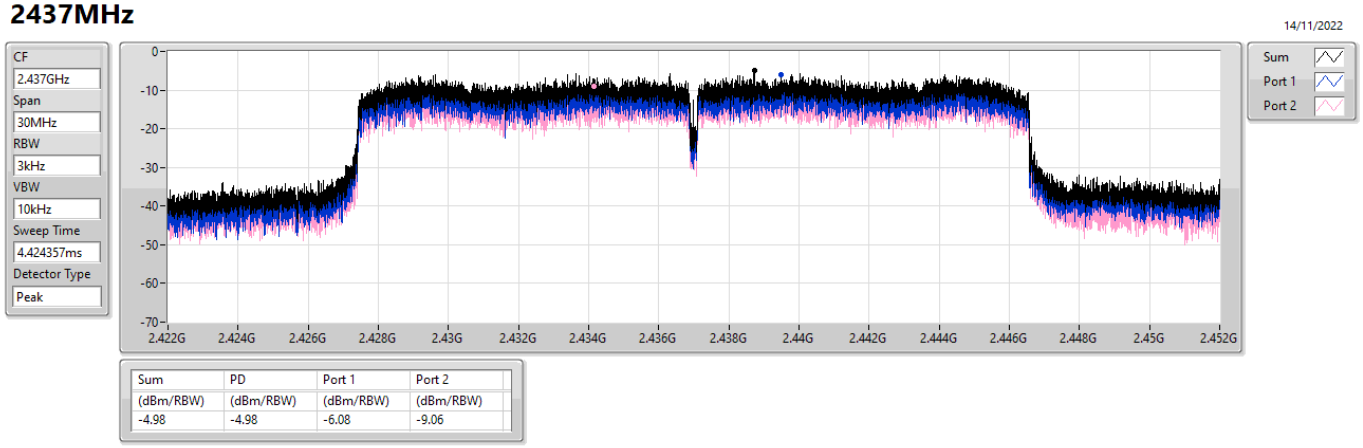
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.11	-11.11	-12.90	-15.01

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX PSD

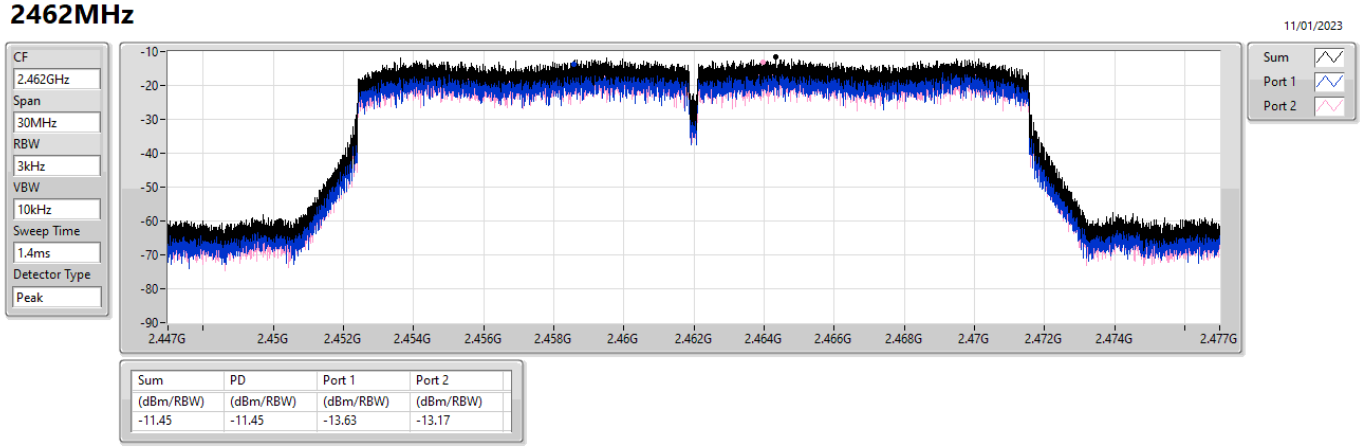
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.98	-4.98	-6.08	-9.06

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **PSD**

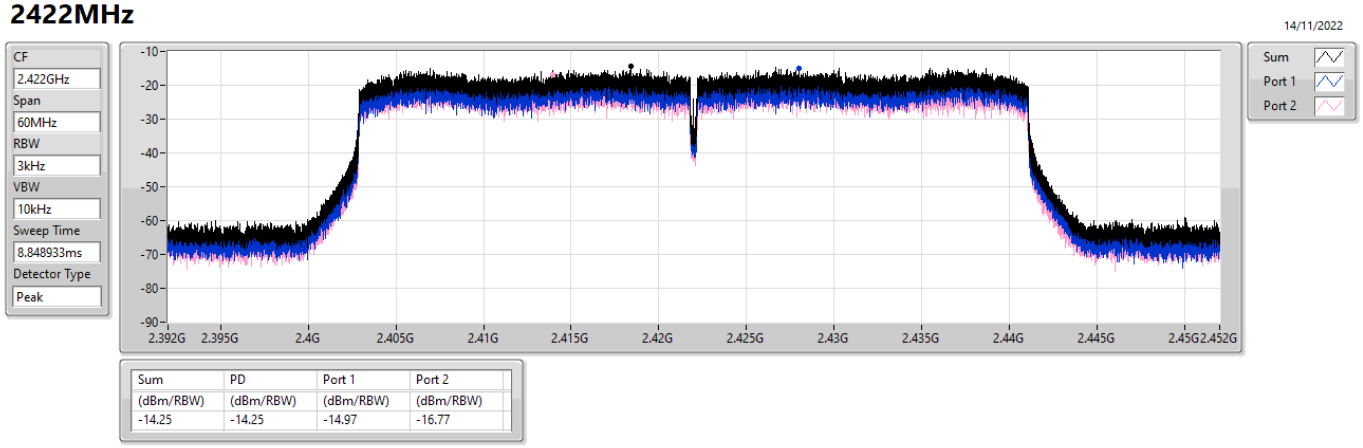
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.45	-11.45	-13.63	-13.17

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

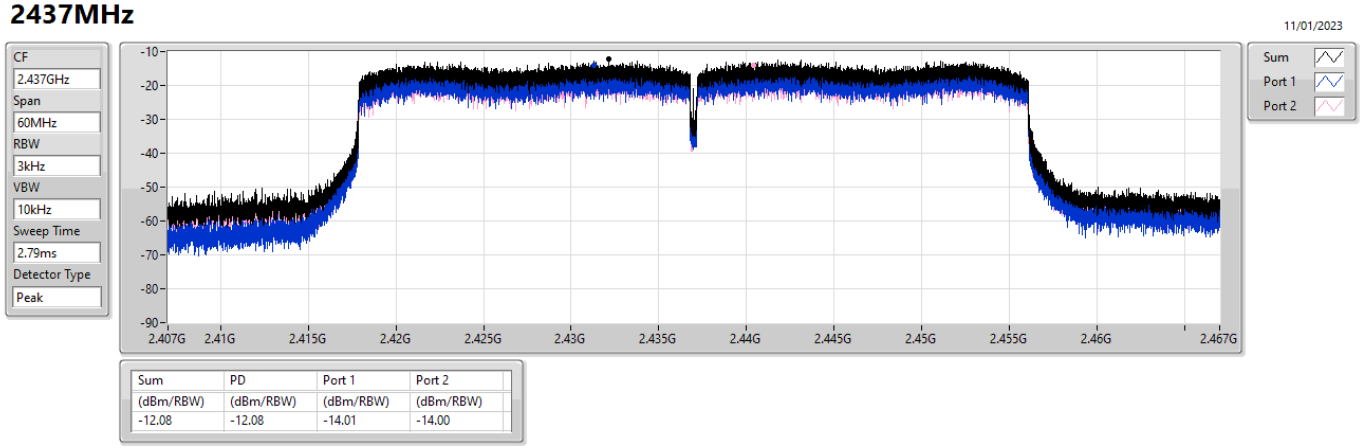
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.25	-14.25	-14.97	-16.77

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

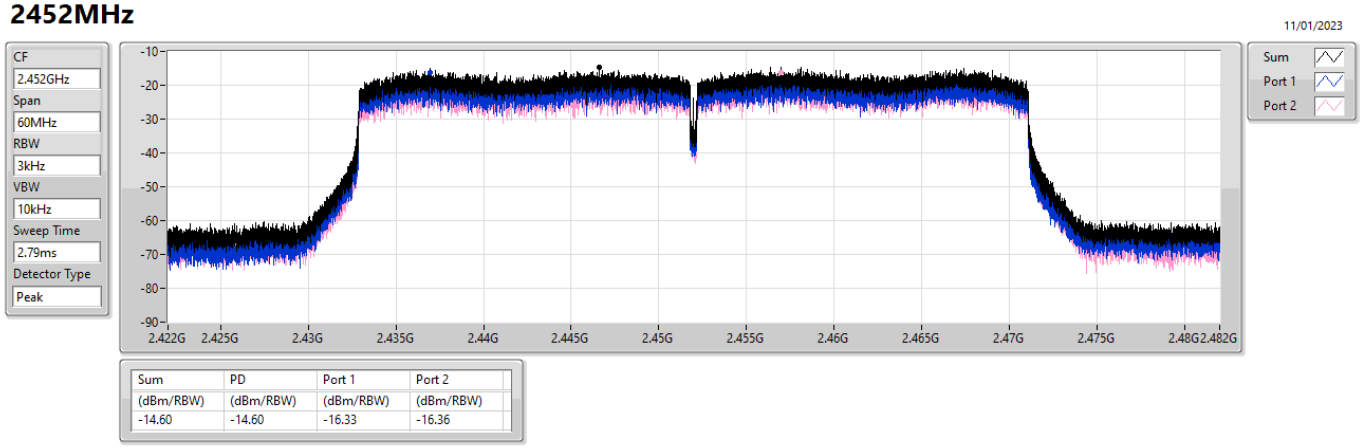
2437MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.08	-12.08	-14.01	-14.00

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **PSD**

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.60	-14.60	-16.33	-16.36

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
ax20,RU106_20MHz_Nss1,(MCS0)_2TX	-11.54
ax20,RU26_20MHz_Nss1,(MCS0)_2TX	-11.53
ax20,RU52_20MHz_Nss1,(MCS0)_2TX	-11.38
ax40,RU242_40MHz_Nss1,(MCS0)_2TX	-13.67

RBW = 3kHz;

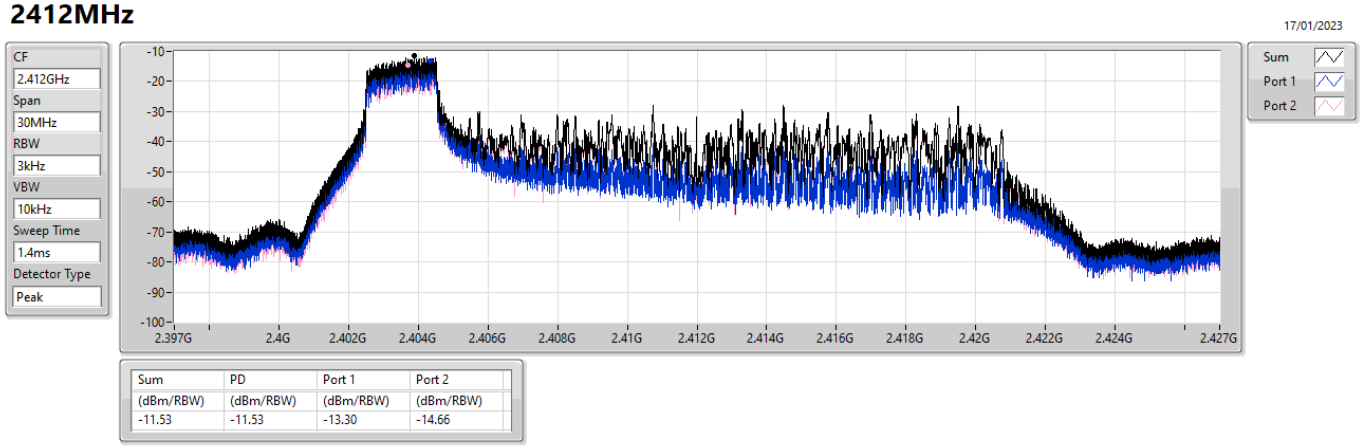
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
ax20,RU26_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-13.30	-14.66	-11.53	8.00
2462MHz	Pass	5.99	-13.93	-14.32	-12.06	8.00
ax20,RU52_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-14.58	-13.48	-11.38	8.00
2462MHz	Pass	5.99	-13.35	-14.35	-12.03	8.00
ax20,RU106_20MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.99	-14.06	-13.90	-12.01	8.00
2462MHz	Pass	5.99	-13.52	-14.55	-11.54	8.00
ax40,RU242_40MHz_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.99	-16.71	-16.98	-14.48	8.00
2452MHz	Pass	5.99	-16.95	-15.42	-13.67	8.00

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

2.4-2.4835GHz_ax20,RU26_20MHz_Nss1,(MCS0)_2TX **PSD**

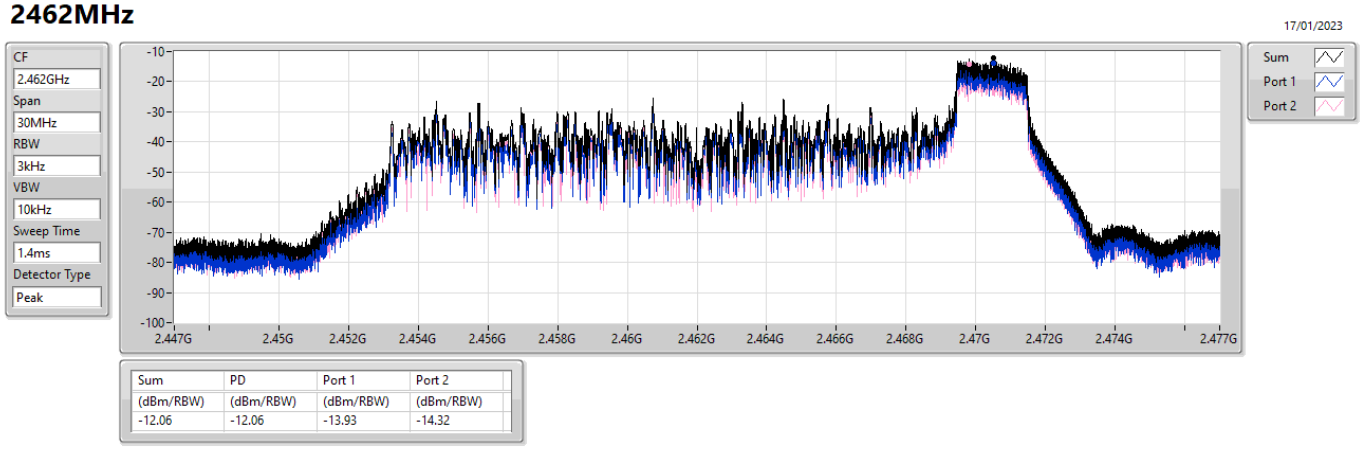
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.53	-11.53	-13.30	-14.66

2.4-2.4835GHz_ax20,RU26_20MHz_Nss1,(MCS0)_2TX **PSD**

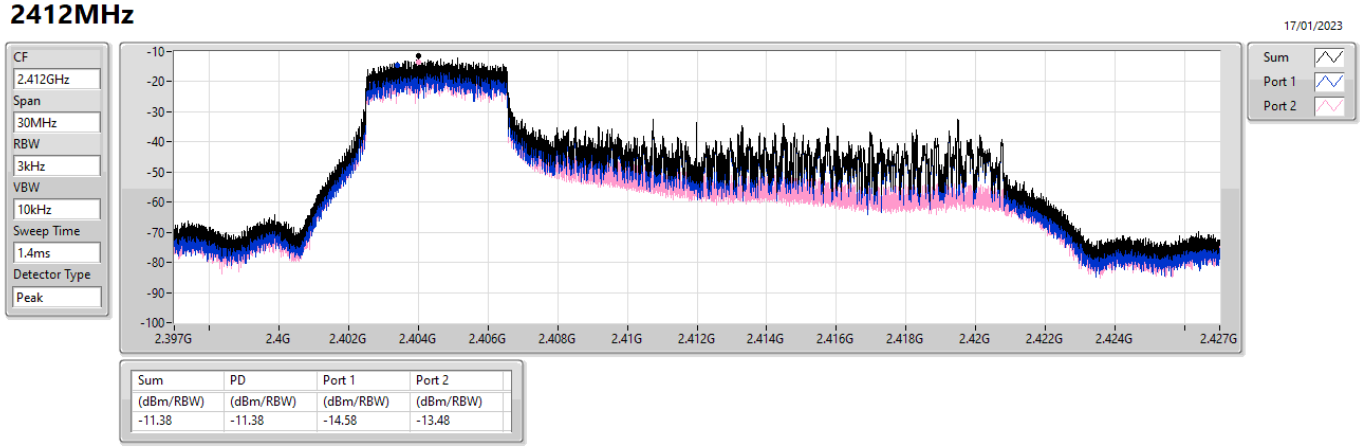
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.06	-12.06	-13.93	-14.32

2.4-2.4835GHz_ax20,RU52_20MHz_Nss1,(MCS0)_2TX **PSD**

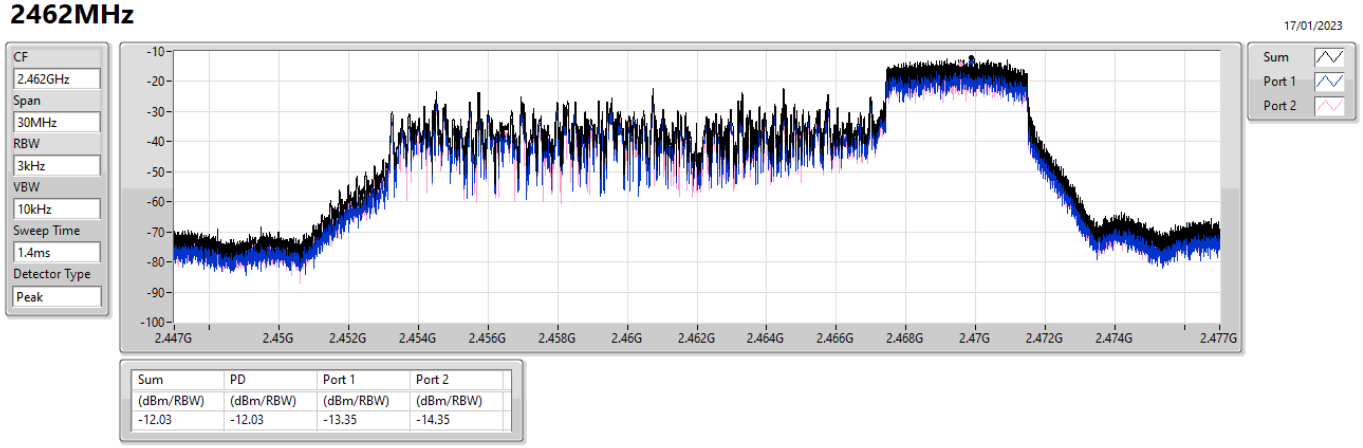
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.38	-11.38	-14.58	-13.48

2.4-2.4835GHz_ax20,RU52_20MHz_Nss1,(MCS0)_2TX **PSD**

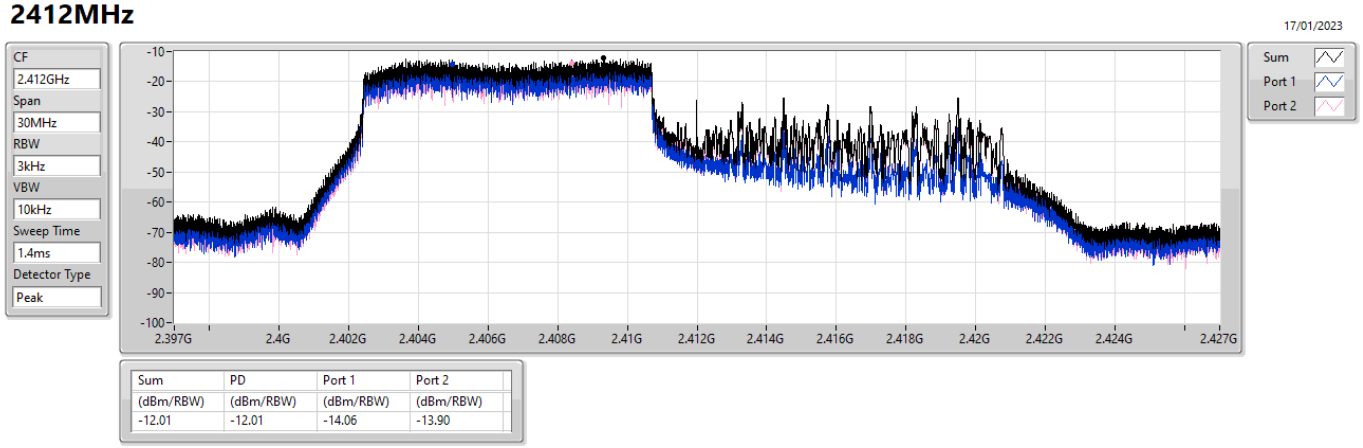
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.03	-12.03	-13.35	-14.35

2.4-2.4835GHz_ax20,RU106_20MHz_Nss1,(MCS0)_2TX **PSD**

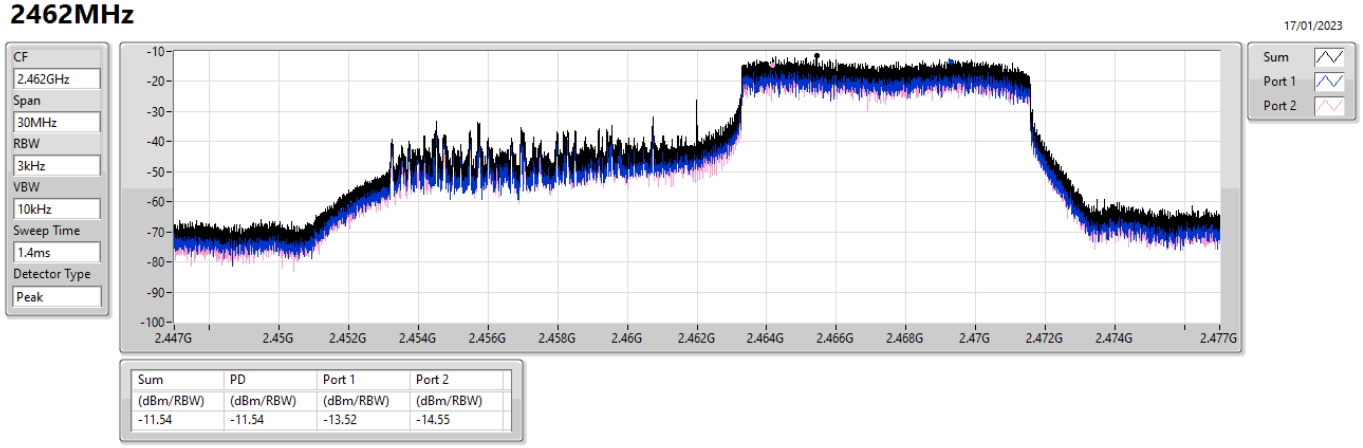
2412MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.01	-12.01	-14.06	-13.90

2.4-2.4835GHz_ax20,RU106_20MHz_Nss1,(MCS0)_2TX **PSD**

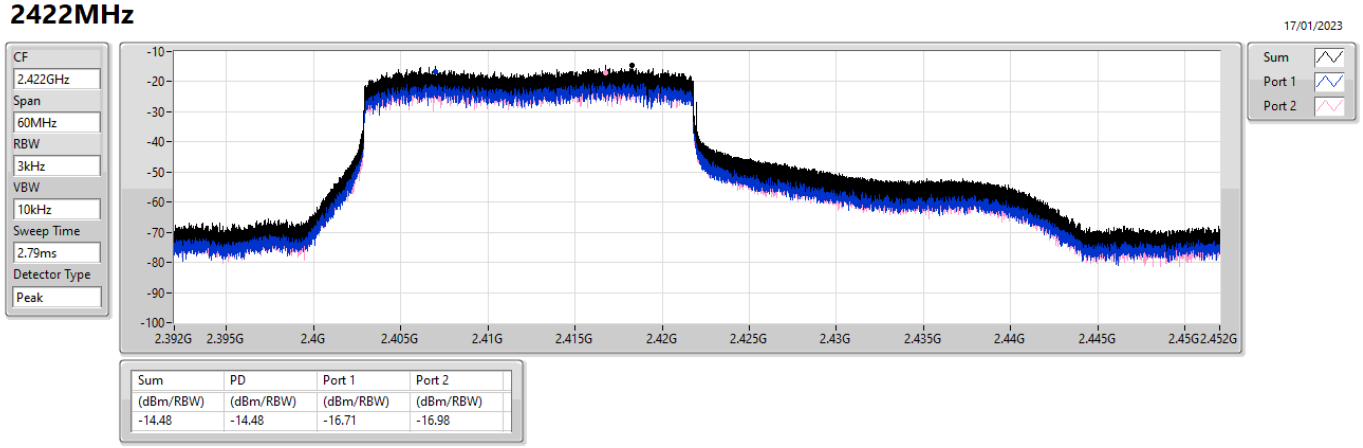
2462MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.54	-11.54	-13.52	-14.55

2.4-2.4835GHz_ax40,RU242_40MHz_Nss1,(MCS0)_2TX **PSD**

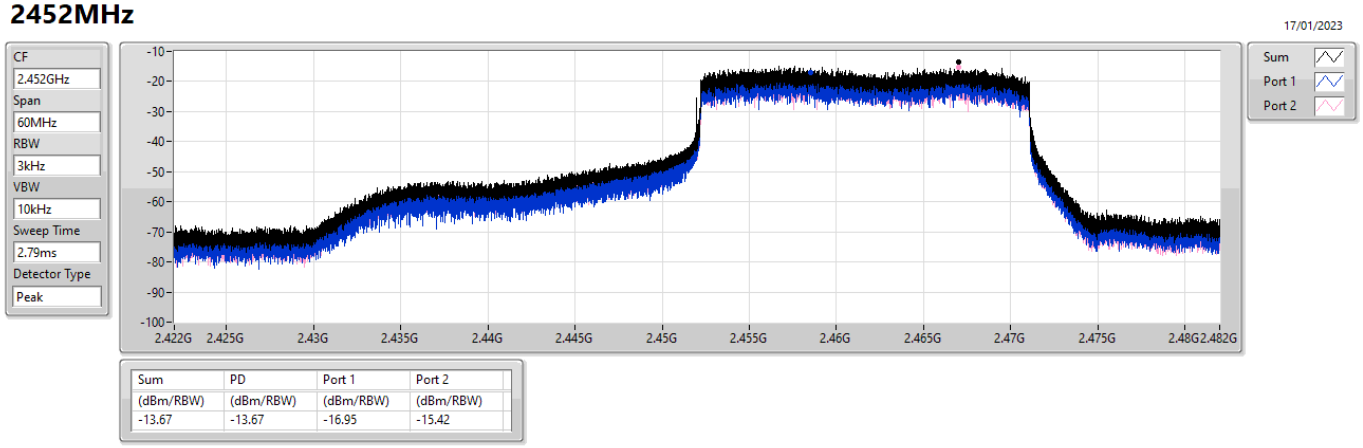
2422MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.48	-14.48	-16.71	-16.98

2.4-2.4835GHz_ax40,RU242_40MHz_Nss1,(MCS0)_2TX **PSD**

2452MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.67	-13.67	-16.95	-15.42

Summary

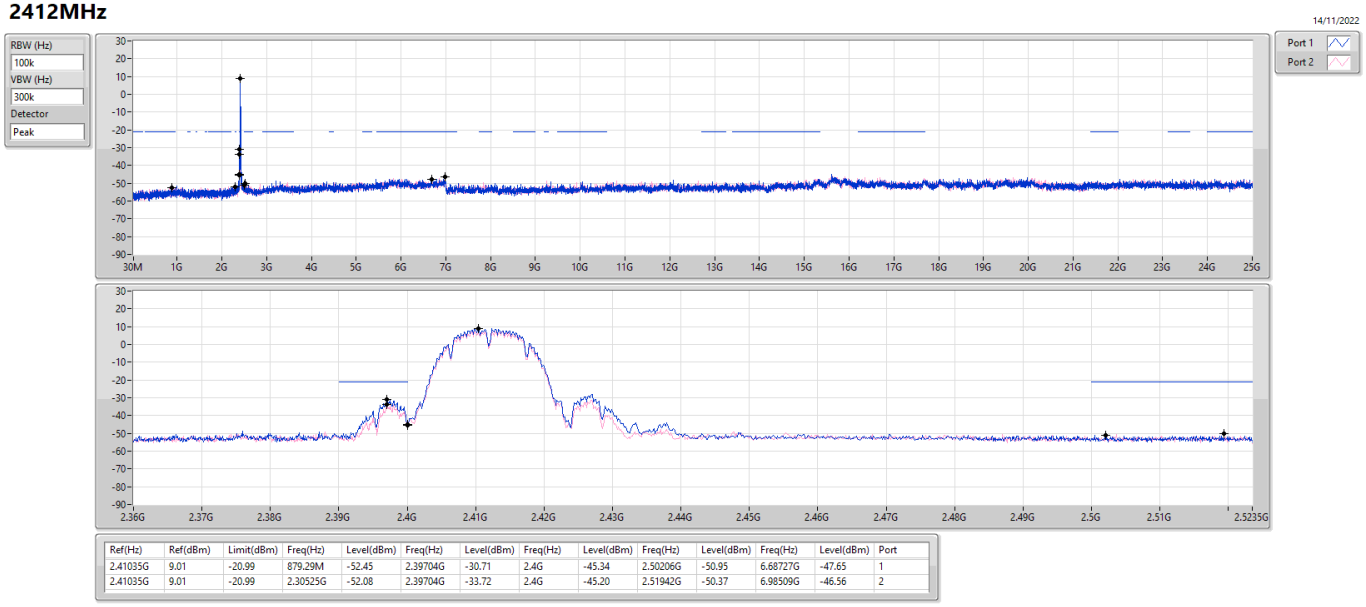
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41035G	9.01	-20.99	879.29M	-52.45	2.39704G	-30.71	2.4G	-45.34	2.50206G	-50.95	6.68727G	-47.65	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.44442G	11.17	-18.83	774.44M	-52.19	2.39912G	-34.30	2.4G	-34.26	2.50326G	-43.21	15.34072G	-47.12	1
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	2.44442G	7.96	-22.04	1.77517G	-51.69	2.39608G	-38.33	2.4G	-36.02	2.50078G	-43.84	15.25925G	-46.90	1
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	2.45194G	3.02	-26.98	1.76697G	-51.77	2.39424G	-39.66	2.4G	-44.34	2.5051G	-46.87	16.67886G	-46.62	2

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41035G	9.01	-20.99	879.29M	-52.45	2.39704G	-30.71	2.4G	-45.34	2.50206G	-50.95	6.68727G	-47.65	1
2412MHz	Pass	2.41035G	9.01	-20.99	2.30525G	-52.08	2.39704G	-33.72	2.4G	-45.20	2.51942G	-50.37	6.98509G	-46.56	2
2437MHz	Pass	2.41035G	9.01	-20.99	2.30059G	-51.30	2.39528G	-51.33	2.4G	-52.63	2.5167G	-50.51	23.46036G	-46.82	1
2437MHz	Pass	2.41035G	9.01	-20.99	890.94M	-52.21	2.39904G	-50.30	2.4G	-52.34	2.50622G	-50.87	5.90621G	-46.64	2
2462MHz	Pass	2.41035G	9.01	-20.99	2.09205G	-52.23	2.398G	-51.94	2.4G	-52.92	2.5199G	-50.54	16.68089G	-46.61	1
2462MHz	Pass	2.41035G	9.01	-20.99	2.17826G	-51.83	2.3964G	-50.98	2.4G	-53.14	2.5131G	-50.42	6.73784G	-47.08	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44442G	11.17	-18.83	761.62M	-52.39	2.39928G	-40.49	2.4G	-40.66	2.51318G	-50.62	24.63476G	-46.66	1
2412MHz	Pass	2.44442G	11.17	-18.83	203.59M	-52.03	2.39704G	-40.41	2.4G	-41.25	2.51766G	-50.46	5.7854G	-46.61	2
2437MHz	Pass	2.44442G	11.17	-18.83	774.44M	-52.19	2.39912G	-34.30	2.4G	-34.26	2.50326G	-43.21	15.34072G	-47.12	1
2437MHz	Pass	2.44442G	11.17	-18.83	2.30525G	-51.97	2.39952G	-35.43	2.4G	-35.67	2.50542G	-46.44	5.81631G	-46.79	2
2462MHz	Pass	2.44442G	11.17	-18.83	1.94643G	-52.12	2.3952G	-51.14	2.4G	-53.99	2.50766G	-48.82	17.66423G	-47.20	1
2462MHz	Pass	2.44442G	11.17	-18.83	1.96041G	-52.40	2.39672G	-51.35	2.4G	-52.95	2.51174G	-50.33	16.61346G	-46.72	2
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44442G	7.96	-22.04	904.92M	-52.09	2.39704G	-41.55	2.4G	-44.43	2.5031G	-50.74	17.66423G	-46.39	1
2412MHz	Pass	2.44442G	7.96	-22.04	1.99186G	-52.23	2.39992G	-38.04	2.4G	-39.98	2.51718G	-51.35	17.19223G	-46.83	2
2437MHz	Pass	2.44442G	7.96	-22.04	1.77517G	-51.69	2.39608G	-38.33	2.4G	-36.02	2.50078G	-43.84	15.25925G	-46.90	1
2437MHz	Pass	2.44442G	7.96	-22.04	761.62M	-52.46	2.39696G	-37.72	2.4G	-40.56	2.50022G	-48.01	15.32668G	-45.54	2
2462MHz	Pass	2.44442G	7.96	-22.04	2.02448G	-52.32	2.3976G	-50.99	2.4G	-52.03	2.51422G	-49.45	17.69514G	-47.26	1
2462MHz	Pass	2.44442G	7.96	-22.04	720.85M	-52.51	2.3932G	-51.51	2.4G	-53.45	2.50078G	-48.73	16.6275G	-46.79	2
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45194G	3.02	-26.98	1.79903G	-52.61	2.39328G	-43.66	2.4G	-42.80	2.50878G	-50.55	6.99471G	-46.87	1
2422MHz	Pass	2.45194G	3.02	-26.98	1.88719G	-52.17	2.39376G	-46.41	2.4G	-45.97	2.5347G	-51.04	5.78875G	-46.92	2
2437MHz	Pass	2.45194G	3.02	-26.98	2.18489G	-53.01	2.39824G	-40.06	2.4G	-43.90	2.50046G	-45.16	16.63399G	-46.16	1
2437MHz	Pass	2.45194G	3.02	-26.98	1.76697G	-51.77	2.39424G	-39.66	2.4G	-44.34	2.5051G	-46.87	16.67886G	-46.62	2
2452MHz	Pass	2.45194G	3.02	-26.98	905.93M	-51.53	2.39712G	-48.72	2.4G	-52.17	2.50446G	-46.27	15.27939G	-46.16	1
2452MHz	Pass	2.45194G	3.02	-26.98	2.18718G	-51.68	2.39504G	-49.15	2.4G	-52.67	2.5043G	-46.93	6.9302G	-47.23	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

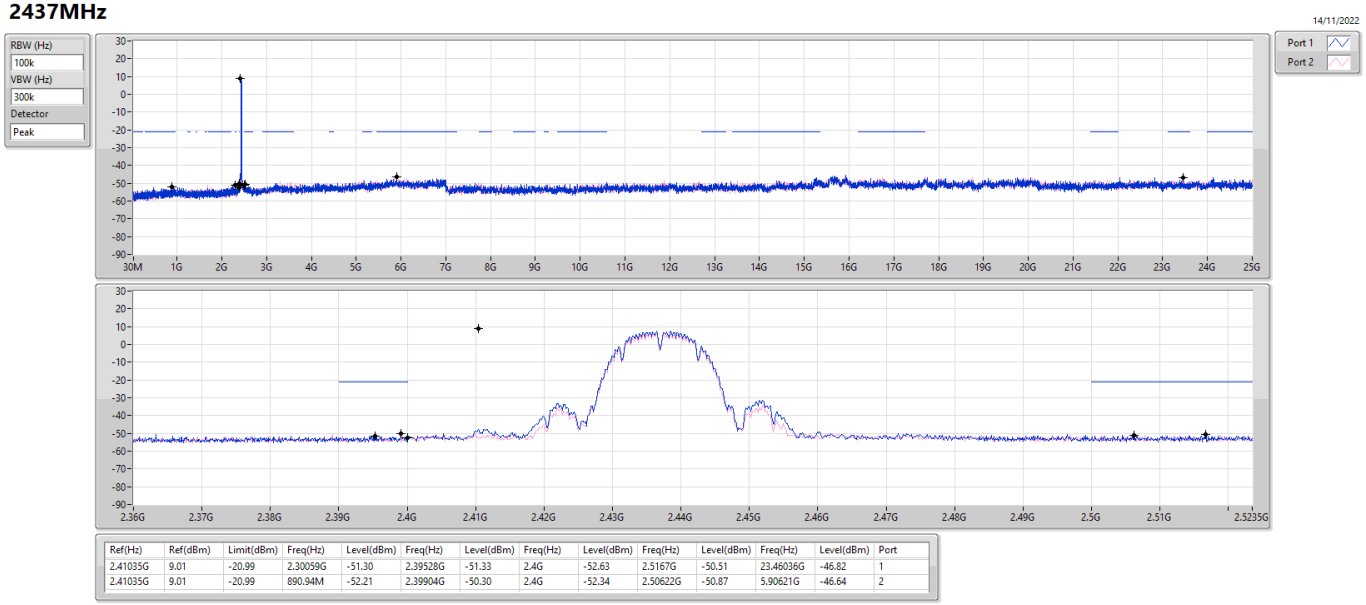
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41035G	9.01	-20.99	879.29M	-52.45	2.39704G	-30.71	2.4G	-45.34	2.50206G	-50.95	6.68727G	-47.65	1
2.41035G	9.01	-20.99	2.30525G	-52.08	2.39704G	-33.72	2.4G	-45.20	2.51942G	-50.37	6.98509G	-46.56	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

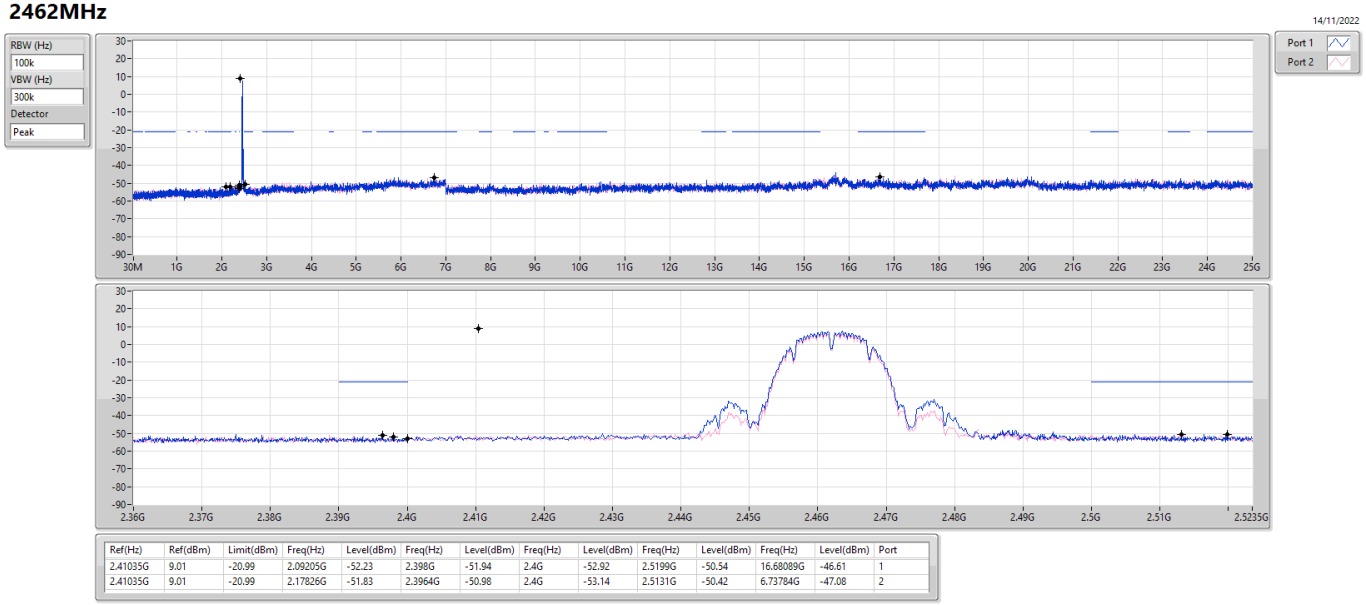
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41035G	9.01	-20.99	2.30059G	-51.30	2.39528G	-51.33	2.4G	-52.63	2.5167G	-50.51	23.46036G	-46.82	1
2.41035G	9.01	-20.99	890.94M	-52.21	2.39904G	-50.30	2.4G	-52.34	2.50622G	-50.87	5.90621G	-46.64	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **CSENdB**

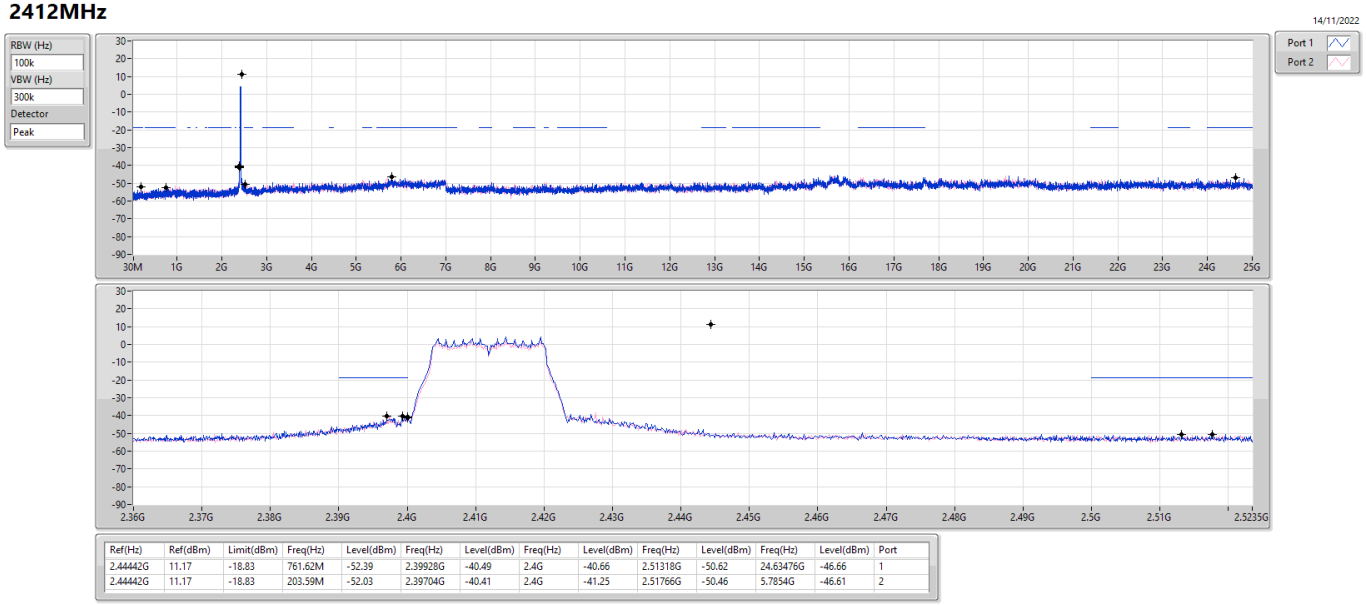
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41035G	9.01	-20.99	2.09205G	-52.23	2.398G	-51.94	2.4G	-52.92	2.5199G	-50.54	16.68089G	-46.61	1
2.41035G	9.01	-20.99	2.17826G	-51.83	2.3964G	-50.98	2.4G	-53.14	2.5131G	-50.42	6.73784G	-47.08	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

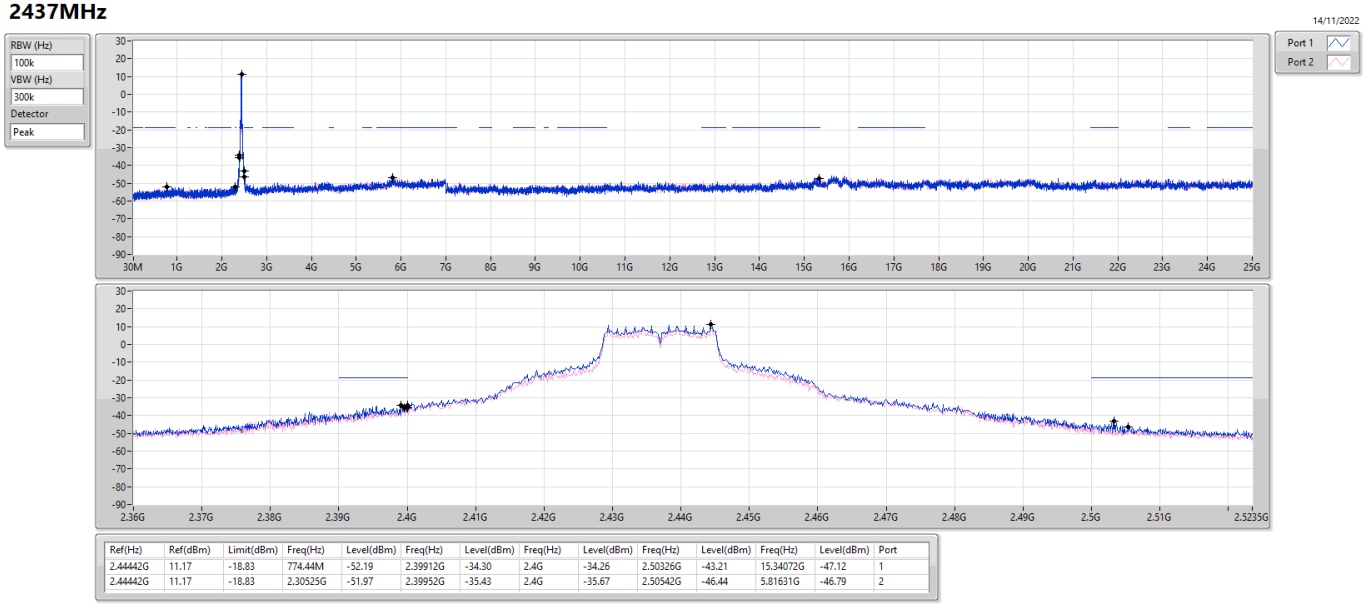
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	11.17	-18.83	761.62M	-52.39	2.39928G	-40.49	2.4G	-40.66	2.51318G	-50.62	24.63476G	-46.66	1
2.44442G	11.17	-18.83	203.59M	-52.03	2.39704G	-40.41	2.4G	-41.25	2.51766G	-50.46	5.7854G	-46.61	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

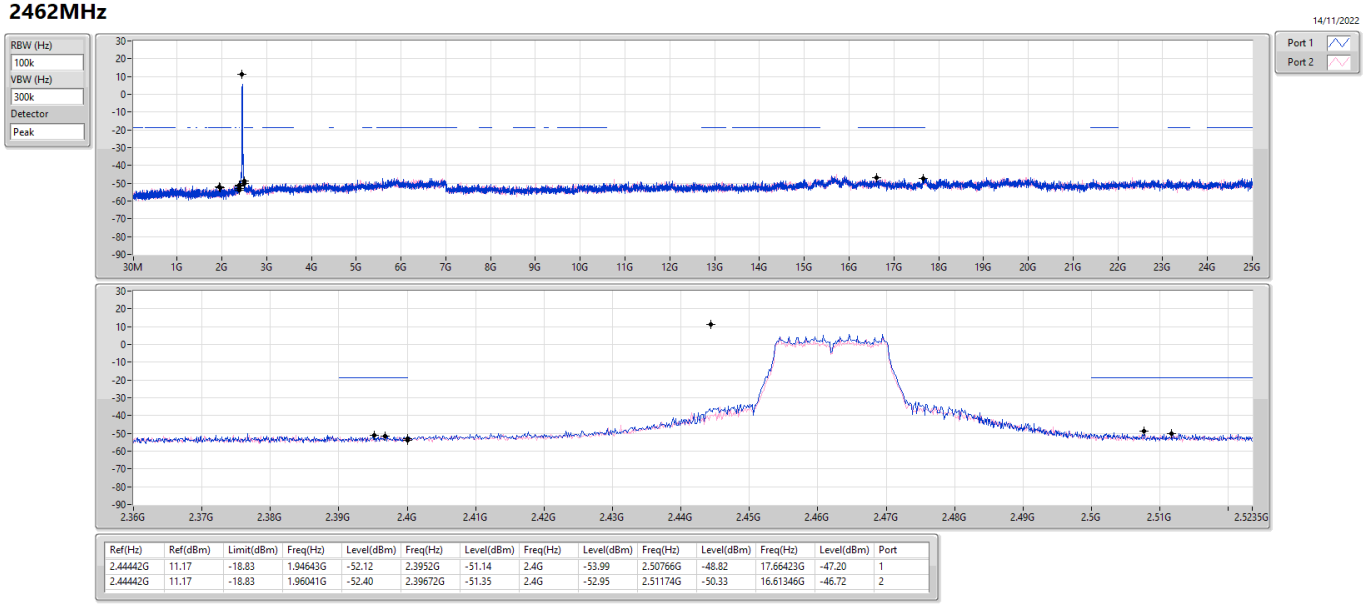
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	11.17	-18.83	774.44M	-52.19	2.39912G	-34.30	2.4G	-34.26	2.50326G	-43.21	15.34072G	-47.12	1
2.44442G	11.17	-18.83	2.30525G	-51.97	2.39952G	-35.43	2.4G	-35.67	2.50542G	-46.44	5.81631G	-46.79	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **CSENdB**

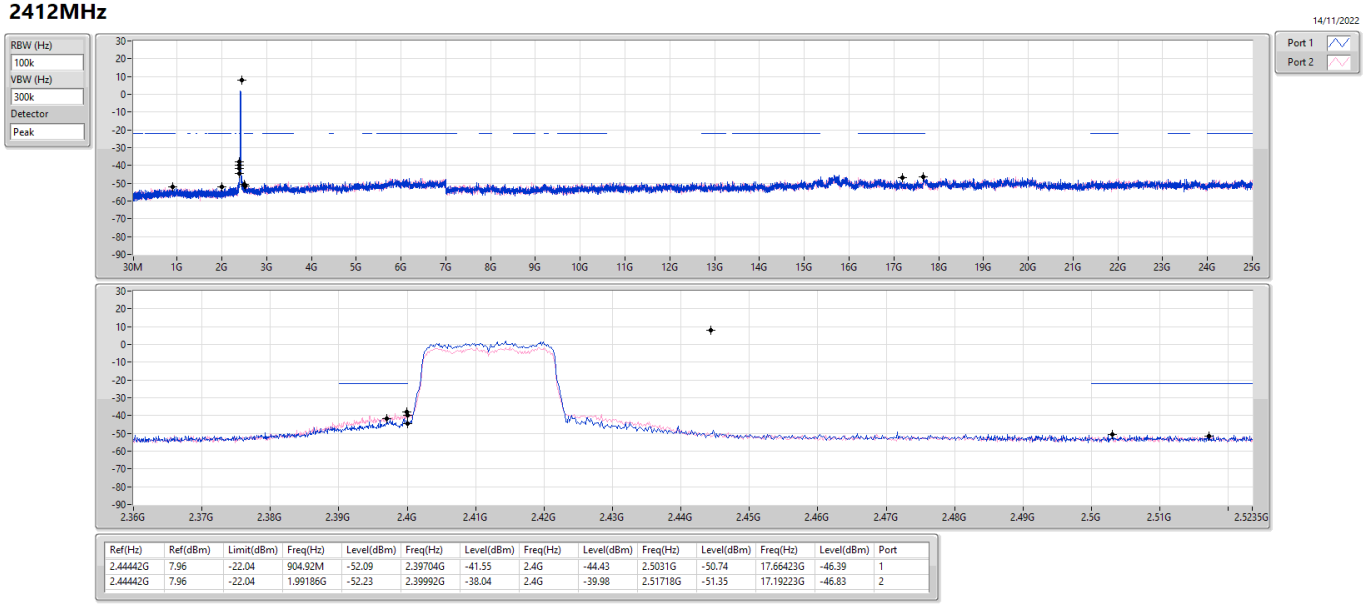
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	11.17	-18.83	1.94643G	-52.12	2.3952G	-51.14	2.4G	-53.99	2.50766G	-48.82	17.66423G	-47.20	1
2.44442G	11.17	-18.83	1.96041G	-52.40	2.39672G	-51.35	2.4G	-52.95	2.51174G	-50.33	16.61346G	-46.72	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **CSENdB**

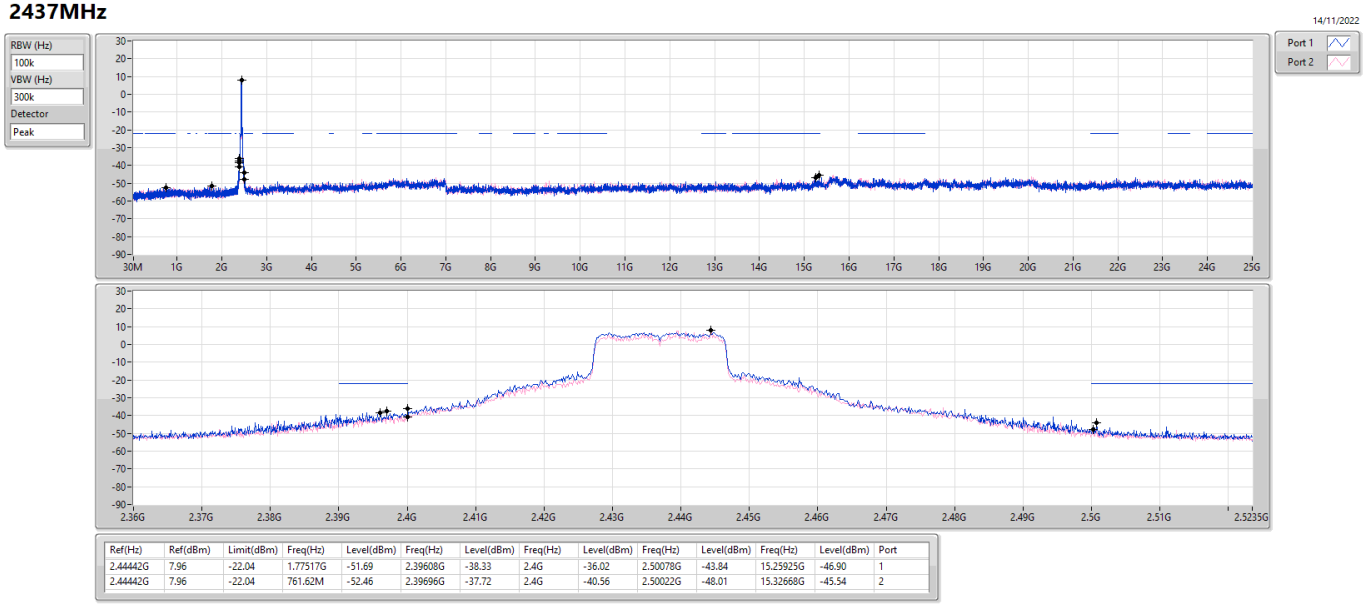
2412MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	7.96	-22.04	904.92M	-52.09	2.39704G	-41.55	2.4G	-44.43	2.5031G	-50.74	17.66423G	-46.39	1
2.44442G	7.96	-22.04	1.99186G	-52.23	2.39992G	-38.04	2.4G	-39.98	2.51718G	-51.35	17.19223G	-46.83	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **CSENdB**

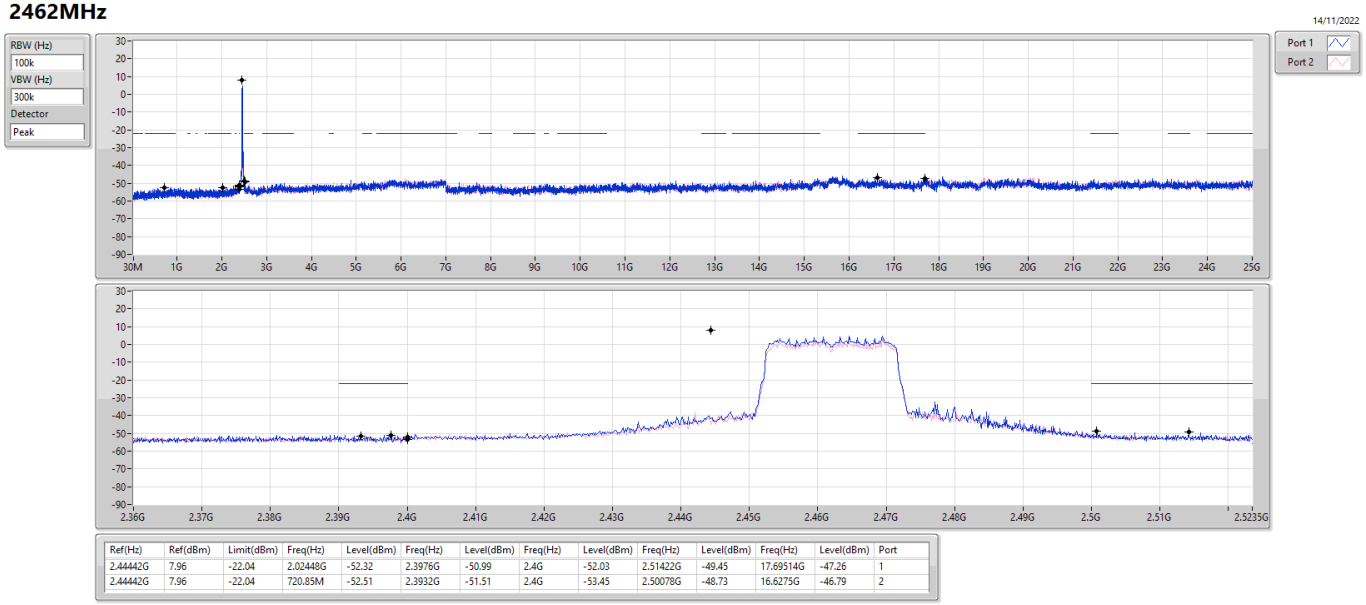
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	7.96	-22.04	1.77517G	-51.69	2.39608G	-38.33	2.4G	-36.02	2.50078G	-43.84	15.25925G	-46.90	1
2.44442G	7.96	-22.04	761.62M	-52.46	2.39696G	-37.72	2.4G	-40.56	2.50022G	-48.01	15.32668G	-45.54	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **CSENdB**

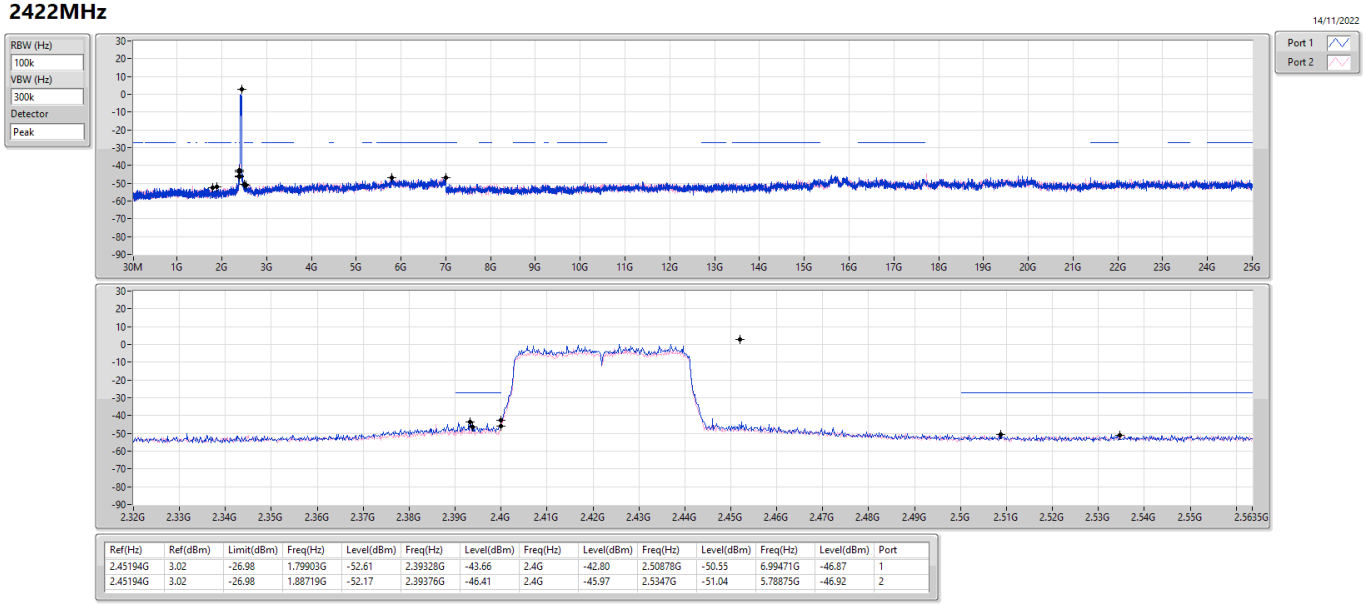
2462MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44442G	7.96	-22.04	2.02448G	-52.32	2.3976G	-50.99	2.4G	-52.03	2.51422G	-49.45	17.69514G	-47.26	1
2.44442G	7.96	-22.04	720.85M	-52.51	2.3932G	-51.51	2.4G	-53.45	2.50078G	-48.73	16.6275G	-46.79	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **CSENdB**

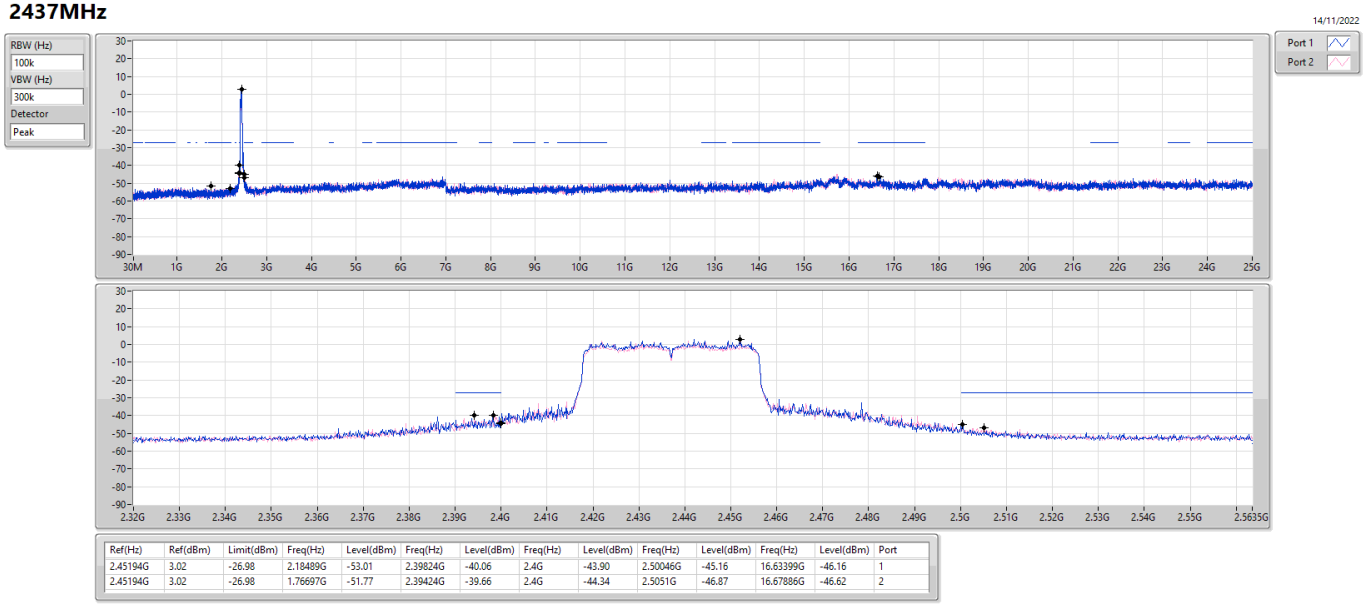
2422MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45194G	3.02	-26.98	1.79903G	-52.61	2.39328G	-43.66	2.4G	-42.80	2.50878G	-50.55	6.99471G	-46.87	1
2.45194G	3.02	-26.98	1.88719G	-52.17	2.39376G	-46.41	2.4G	-45.97	2.5347G	-51.04	5.78875G	-46.92	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **CSENdB**

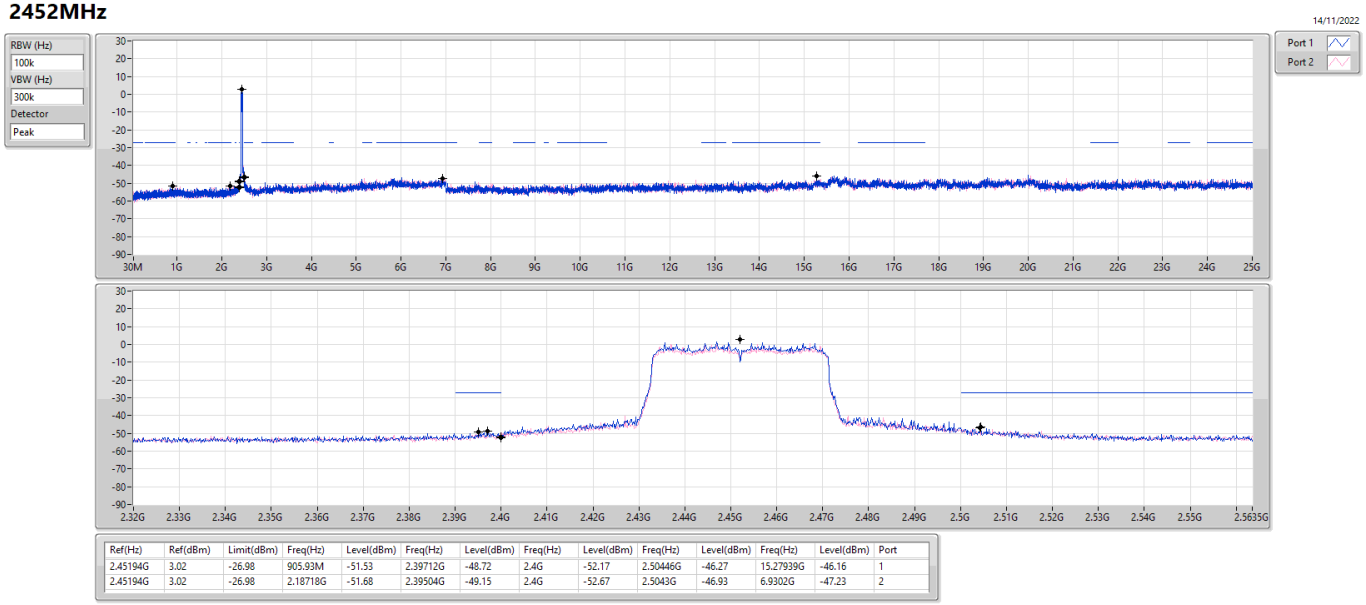
2437MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45194G	3.02	-26.98	2.18489G	-53.01	2.39824G	-40.06	2.4G	-43.90	2.50046G	-45.16	16.63399G	-46.16	1
2.45194G	3.02	-26.98	1.76697G	-51.77	2.39424G	-39.66	2.4G	-44.34	2.5051G	-46.87	16.67886G	-46.62	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **CSENdB**

2452MHz

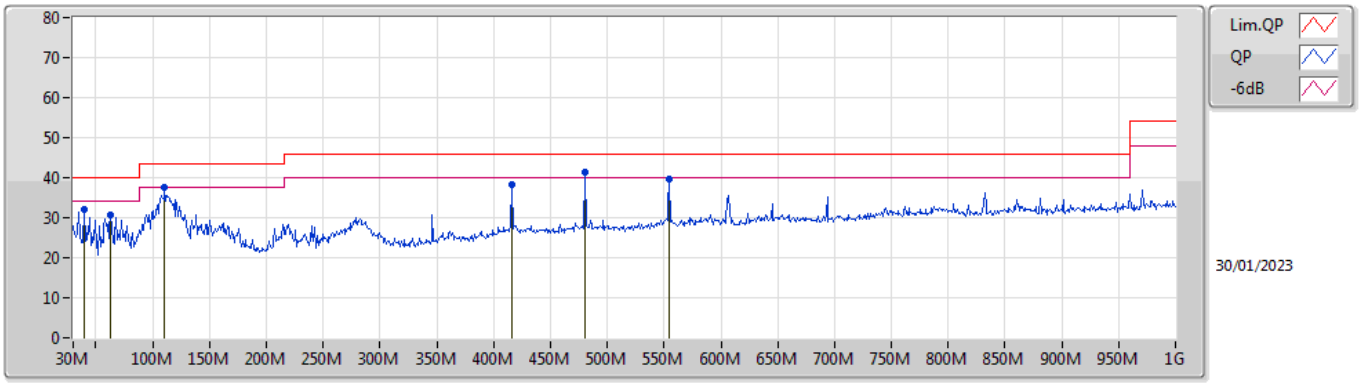


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.45194G	3.02	-26.98	905.93M	-51.53	2.39712G	-48.72	2.4G	-52.17	2.50446G	-46.27	15.27939G	-46.16	1
2.45194G	3.02	-26.98	2.18718G	-51.68	2.39504G	-49.15	2.4G	-52.67	2.5043G	-46.93	6.9302G	-47.23	2

Summary

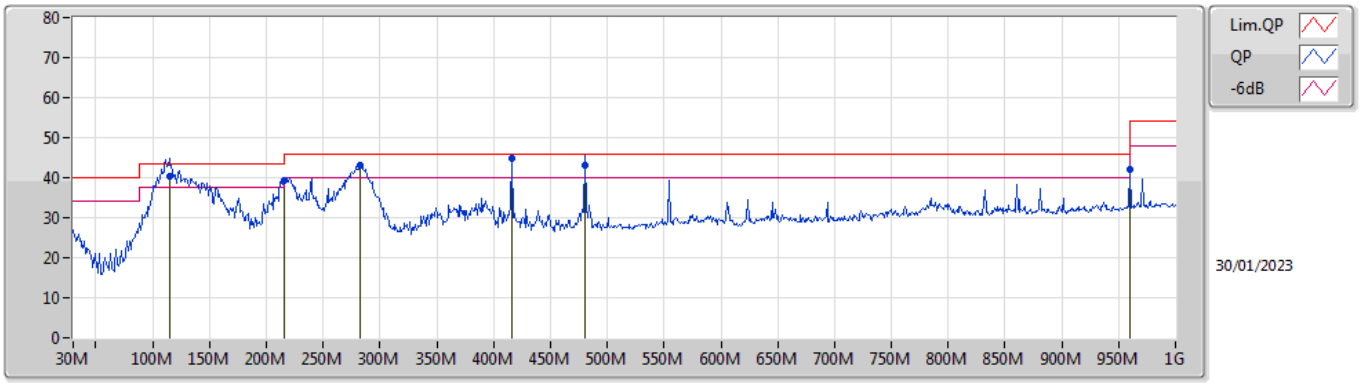
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 3	Pass	QP	416.06M	44.99	46.00	-1.01	Horizontal

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)
PK	39.7M	32.18	40.00	-7.82	-11.90	3	Vertical	123	1.00	-	44.08	19.32	0.90	32.12
PK	62.98M	30.85	40.00	-9.15	-18.65	3	Vertical	124	2.00	-	49.50	12.41	1.09	32.15
PK	110.51M	37.58	43.50	-5.92	-12.95	3	Vertical	213	1.50	-	50.53	17.64	1.43	32.02
PK	416.06M	38.39	46.00	-7.61	-6.49	3	Vertical	239	2.00	-	44.88	22.23	2.77	31.49
PK	480.08M	41.39	46.00	-4.61	-5.33	3	Vertical	211	2.00	"Worst"	46.72	23.21	2.99	31.53
PK	554.77M	39.67	46.00	-6.33	-3.72	3	Vertical	5	1.50	-	43.39	24.75	3.20	31.67

Mode 3



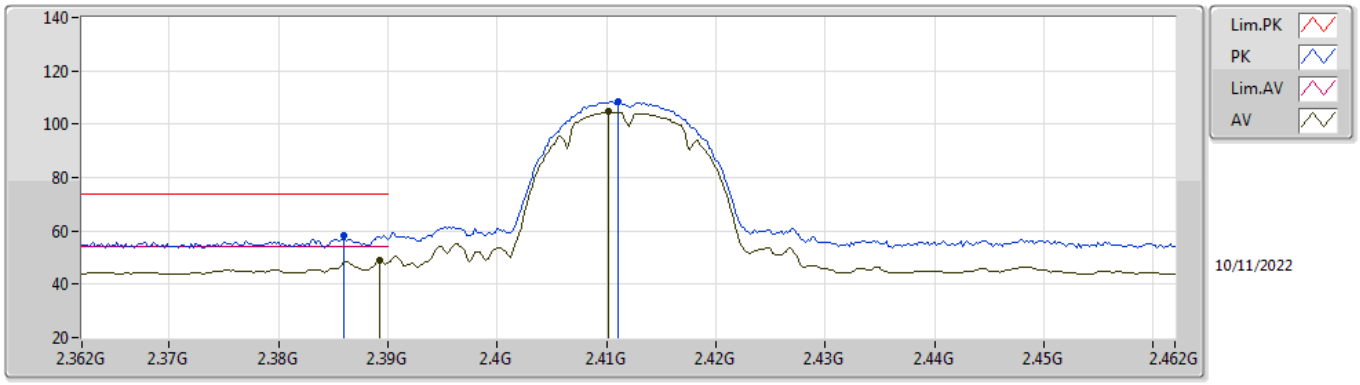
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
QP	114.39M	40.36	43.50	-3.14	-12.64	3	Horizontal	359	2.00	-	53.00	17.87	1.46	31.97
PK	215.27M	39.21	43.50	-4.29	-15.16	3	Horizontal	145	2.00	-	54.37	14.89	1.91	31.96
PK	282.2M	43.14	46.00	-2.86	-10.83	3	Horizontal	338	1.50	-	53.97	18.74	2.23	31.80
QP	416.06M	44.99	46.00	-1.01	-6.49	3	Horizontal	294	1.00	"Worst"	51.48	22.23	2.77	31.49
QP	480.08M	42.94	46.00	-3.06	-5.33	3	Horizontal	194	1.00	-	48.27	23.21	2.99	31.53
PK	959.9M	42.21	46.00	-3.79	0.65	3	Horizontal	360	1.25	-	41.56	26.80	4.30	30.45

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	2.4835G	52.91	54.00	-1.09	3	Horizontal	201	2.06	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

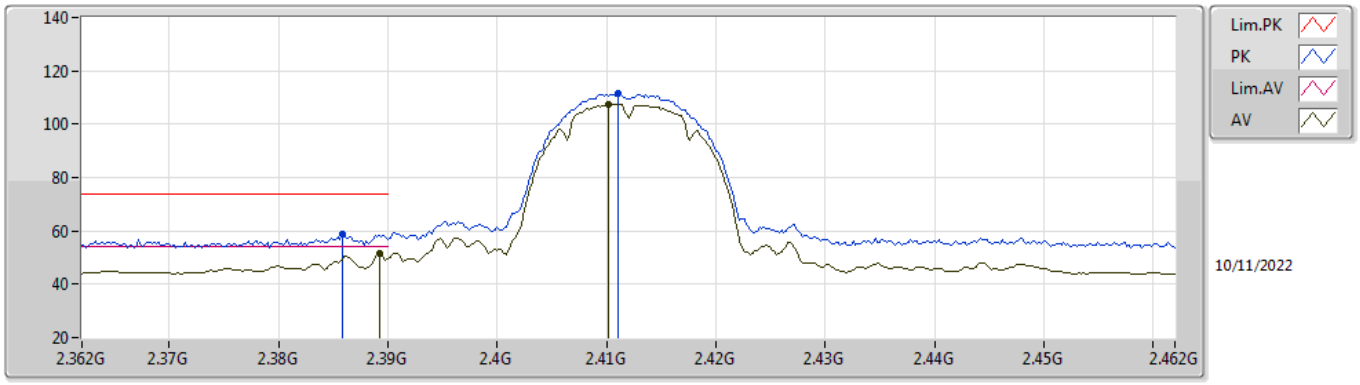


EUT Y_2TX
Setting 19
02-F-R-5

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	2.386G	58.17	74.00	-15.83	26.61	3	Vertical	198	2.08	-	28.37	3.19	-
AV	2.3892G	48.85	54.00	-5.15	17.28	3	Vertical	198	2.08	-	28.38	3.19	-
PK	2.411G	108.45	Inf	-Inf	76.84	3	Vertical	198	2.08	-	28.40	3.21	-
AV	2.4102G	104.70	Inf	-Inf	73.09	3	Vertical	198	2.08	-	28.40	3.21	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

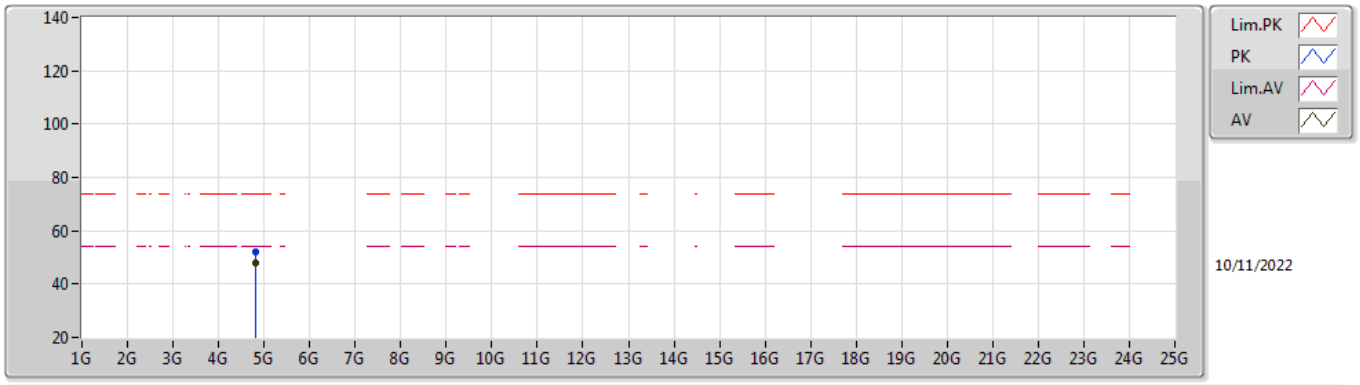


EUT Y_2TX
Setting 19
02-F-R-5

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	2.3858G	58.66	74.00	-15.34	27.10	3	Horizontal	214	2.24	-	28.37	3.19	-
AV	2.3892G	51.36	54.00	-2.64	19.79	3	Horizontal	214	2.24	-	28.38	3.19	-
PK	2.411G	111.38	Inf	-Inf	79.77	3	Horizontal	214	2.24	-	28.40	3.21	-
AV	2.4102G	107.54	Inf	-Inf	75.93	3	Horizontal	214	2.24	-	28.40	3.21	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

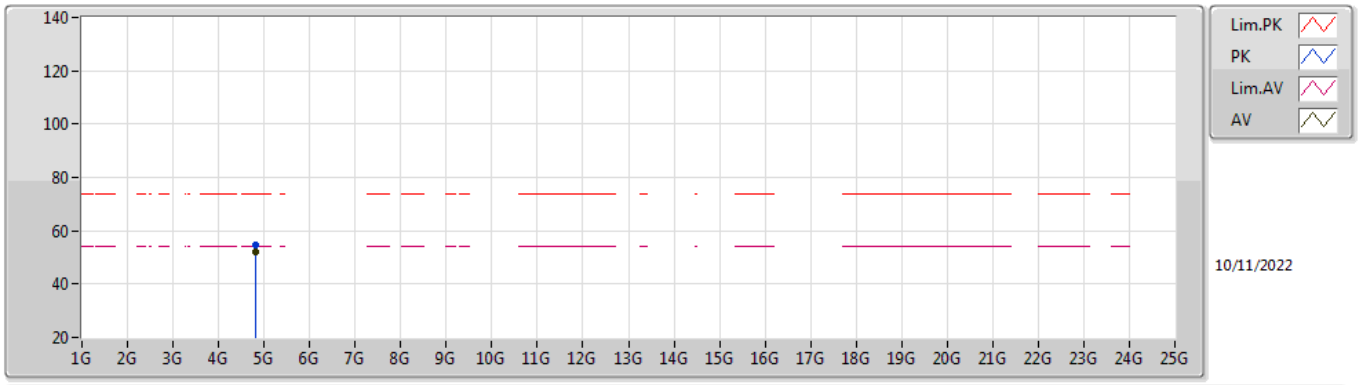


EUT X_2TX
Setting 19
02-F-R-5

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	4.82408G	52.04	74.00	-21.96	44.29	3	Vertical	132	2.57	-	32.94	5.61	30.80
AV	4.82396G	48.07	54.00	-5.93	40.32	3	Vertical	132	2.57	-	32.94	5.61	30.80

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

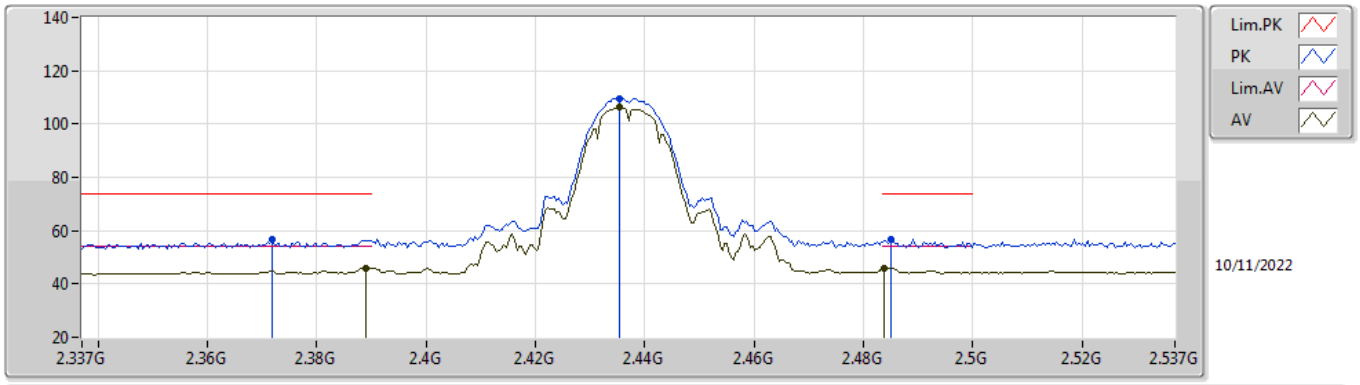


EUT X_2TX
Setting 19
02-F-R-5

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	4.824G	54.53	74.00	-19.47	46.78	3	Horizontal	150	1.85	-	32.94	5.61	30.80
AV	4.824G	52.12	54.00	-1.88	44.37	3	Horizontal	150	1.85	-	32.94	5.61	30.80

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

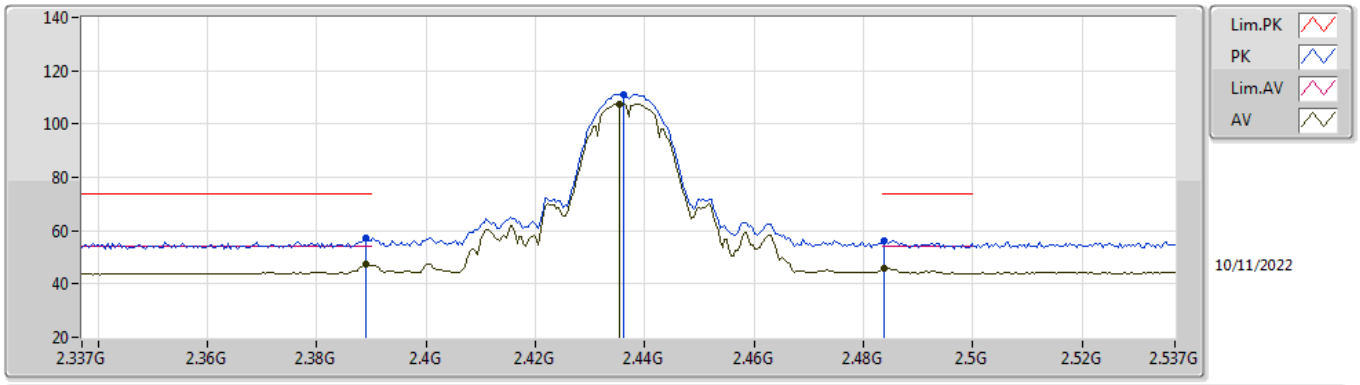


EUT Y_2TX
Setting 21
02-F-R-5

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	2.3718G	56.54	74.00	-17.46	25.01	3	Vertical	195	2.51	-	28.34	3.19	-
AV	2.389G	45.92	54.00	-8.08	14.35	3	Vertical	195	2.51	-	28.38	3.19	-
PK	2.4354G	109.73	Inf	-Inf	78.11	3	Vertical	195	2.51	-	28.40	3.22	-
AV	2.4354G	106.15	Inf	-Inf	74.53	3	Vertical	195	2.51	-	28.40	3.22	-
PK	2.485G	56.65	74.00	-17.35	24.87	3	Vertical	195	2.51	-	28.54	3.24	-
AV	2.4838G	46.06	54.00	-7.94	14.28	3	Vertical	195	2.51	-	28.54	3.24	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

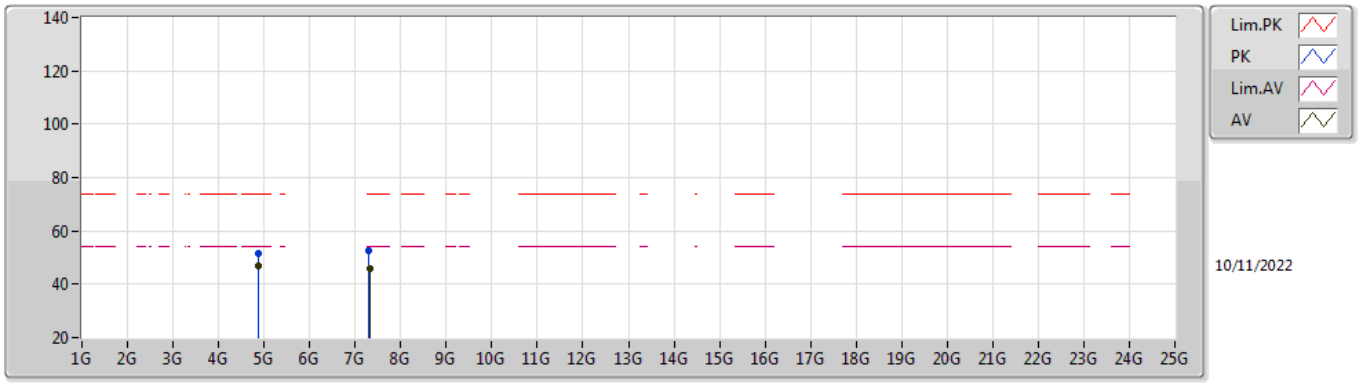


EUT Y_2TX
Setting 21
02-F-R-5

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	2.389G	57.35	74.00	-16.65	25.78	3	Horizontal	24	2.20	-	28.38	3.19	-
AV	2.389G	47.25	54.00	-6.75	15.68	3	Horizontal	24	2.20	-	28.38	3.19	-
PK	2.4362G	111.23	Inf	-Inf	79.61	3	Horizontal	24	2.20	-	28.40	3.22	-
AV	2.4354G	107.64	Inf	-Inf	76.02	3	Horizontal	24	2.20	-	28.40	3.22	-
PK	2.4838G	56.41	74.00	-17.59	24.63	3	Horizontal	24	2.20	-	28.54	3.24	-
AV	2.4838G	45.81	54.00	-8.19	14.03	3	Horizontal	24	2.20	-	28.54	3.24	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

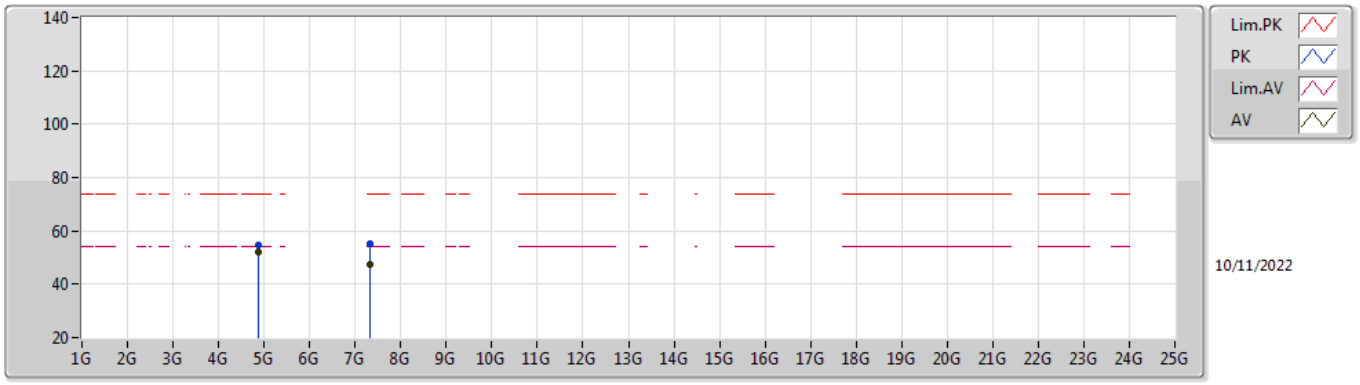


EUT X_2TX
Setting 17
02-F-R-5

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	4.874G	51.76	74.00	-22.24	43.75	3	Vertical	130	2.52	-	33.15	5.64	30.78
AV	4.87396G	46.99	54.00	-7.01	38.98	3	Vertical	130	2.52	-	33.15	5.64	30.78
PK	7.3094G	52.41	74.00	-21.59	41.06	3	Vertical	-0	2.25	-	36.42	6.85	31.92
AV	7.31172G	45.79	54.00	-8.21	34.45	3	Vertical	-0	2.25	-	36.42	6.84	31.92

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

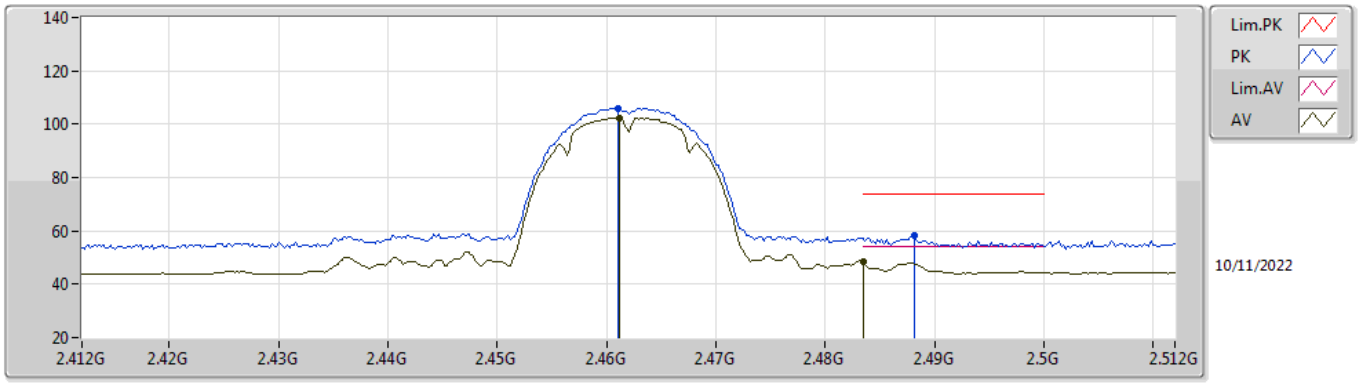


EUT X_2TX
Setting 17
02-F-R-5

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	4.874G	54.70	74.00	-19.30	46.69	3	Horizontal	159	1.82	-	33.15	5.64	30.78
AV	4.87396G	51.93	54.00	-2.07	43.92	3	Horizontal	159	1.82	-	33.15	5.64	30.78
PK	7.31192G	55.25	74.00	-18.75	43.91	3	Horizontal	175	1.95	-	36.42	6.84	31.92
AV	7.31168G	47.41	54.00	-6.59	36.07	3	Horizontal	175	1.95	-	36.42	6.84	31.92

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

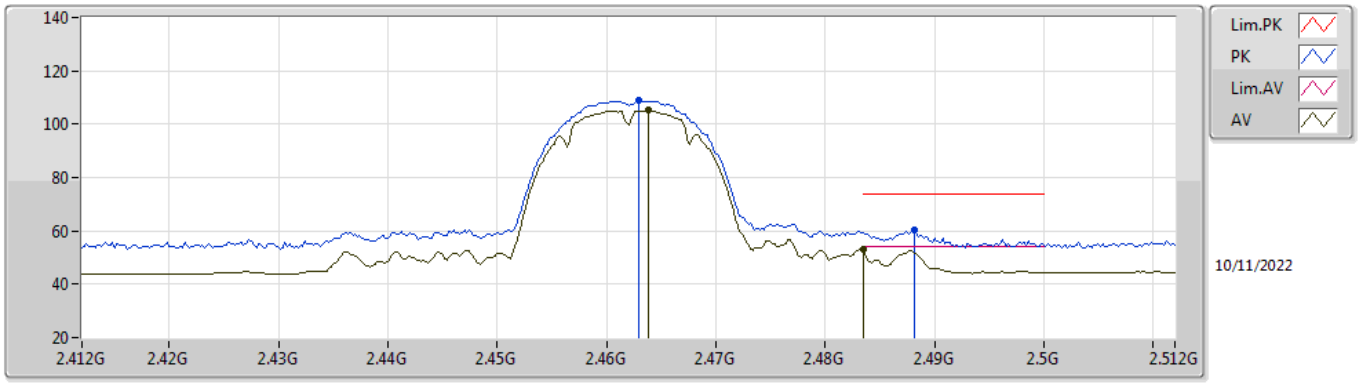


EUT Y_2TX
Setting 19
02-F-R-5

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	2.461G	106.08	Inf	-Inf	74.41	3	Vertical	127	1.88	-	28.44	3.23	-
AV	2.4612G	102.31	Inf	-Inf	70.64	3	Vertical	127	1.88	-	28.44	3.23	-
PK	2.4882G	58.26	74.00	-15.74	26.47	3	Vertical	127	1.88	-	28.55	3.24	-
AV	2.4835G	48.65	54.00	-5.35	16.88	3	Vertical	127	1.88	-	28.53	3.24	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

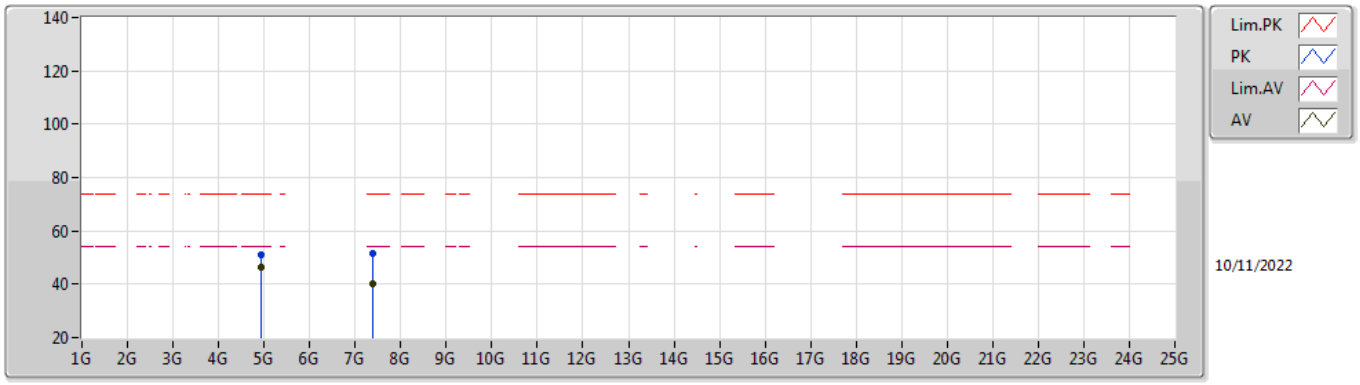


EUT Y_2TX
Setting 19
02-F-R-5

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	2.463G	108.92	Inf	-Inf	77.24	3	Horizontal	201	2.06	-	28.45	3.23	-
AV	2.4638G	105.10	Inf	-Inf	73.41	3	Horizontal	201	2.06	-	28.46	3.23	-
PK	2.4882G	60.14	74.00	-13.86	28.35	3	Horizontal	201	2.06	-	28.55	3.24	-
AV	2.4835G	52.91	54.00	-1.09	21.14	3	Horizontal	201	2.06	-	28.53	3.24	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

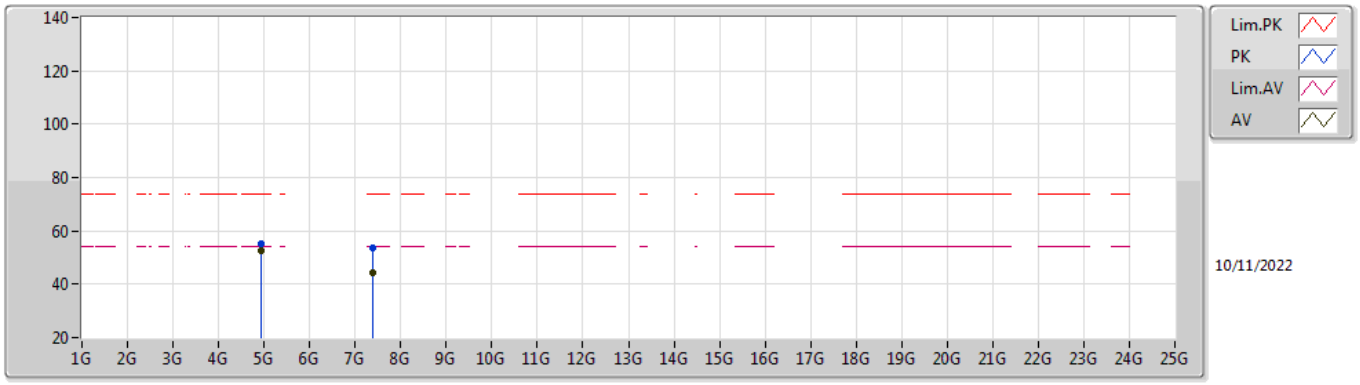


EUT X_2TX
Setting 17
02-F-R-5

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	4.92388G	51.25	74.00	-22.75	43.10	3	Vertical	325	2.91	-	33.25	5.66	30.76
AV	4.92396G	46.51	54.00	-7.49	38.36	3	Vertical	325	2.91	-	33.25	5.66	30.76
PK	7.3848G	51.80	74.00	-22.20	40.45	3	Vertical	360	2.13	-	36.50	6.81	31.96
AV	7.38516G	40.27	54.00	-13.73	28.92	3	Vertical	360	2.13	-	36.50	6.81	31.96

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

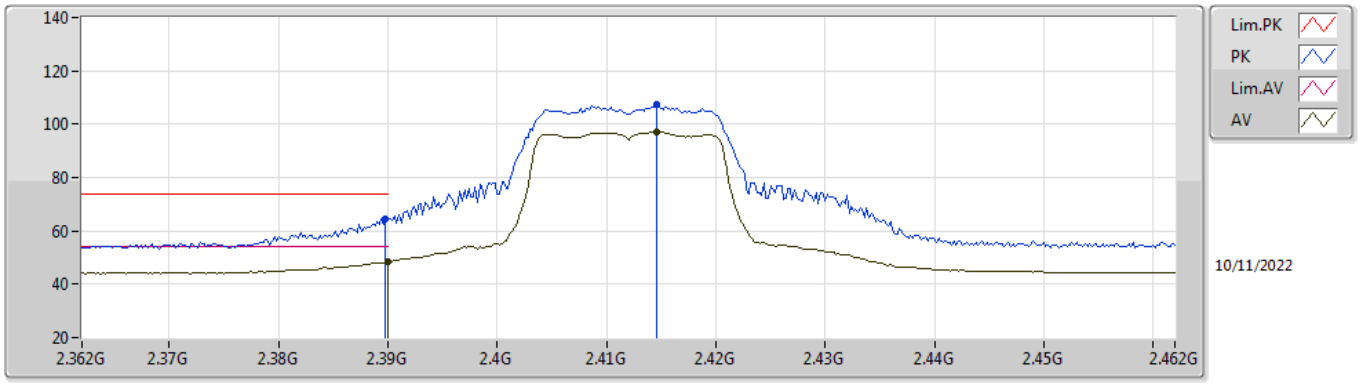


EUT X_2TX
Setting 17
02-F-R-5

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	4.92404G	54.96	74.00	-19.04	46.81	3	Horizontal	163	1.60	-	33.25	5.66	30.76
AV	4.924G	52.33	54.00	-1.67	44.18	3	Horizontal	163	1.60	-	33.25	5.66	30.76
PK	7.38684G	53.86	74.00	-20.14	42.51	3	Horizontal	170	1.99	-	36.50	6.81	31.96
AV	7.3852G	44.47	54.00	-9.53	33.12	3	Horizontal	170	1.99	-	36.50	6.81	31.96

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

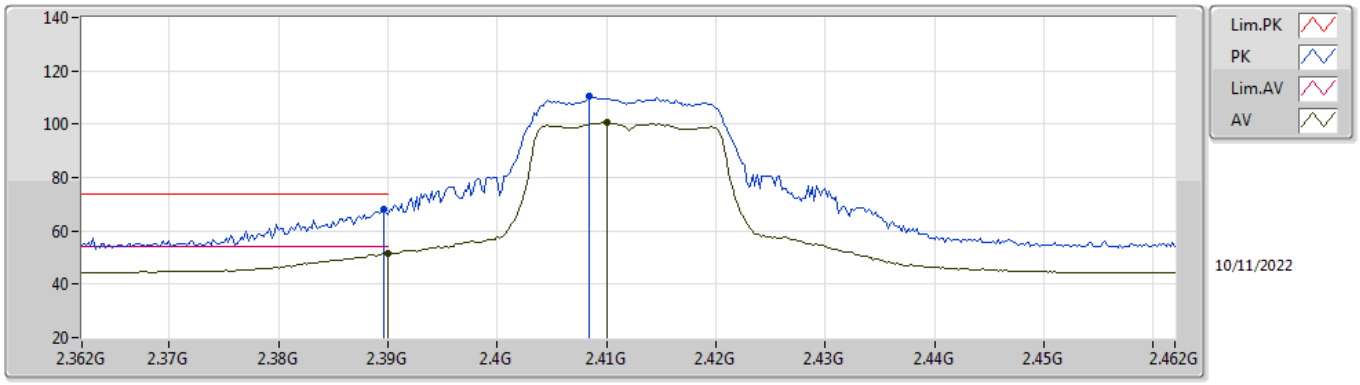


EUT Y_2TX
Setting 15
02-F-R-5

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	2.3898G	64.62	74.00	-9.38	33.05	3	Vertical	201	2.94	-	28.38	3.19	-
AV	2.39G	48.46	54.00	-5.54	16.88	3	Vertical	201	2.94	-	28.38	3.20	-
PK	2.4146G	107.59	Inf	-Inf	75.98	3	Vertical	201	2.94	-	28.40	3.21	-
AV	2.4146G	97.30	Inf	-Inf	65.69	3	Vertical	201	2.94	-	28.40	3.21	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

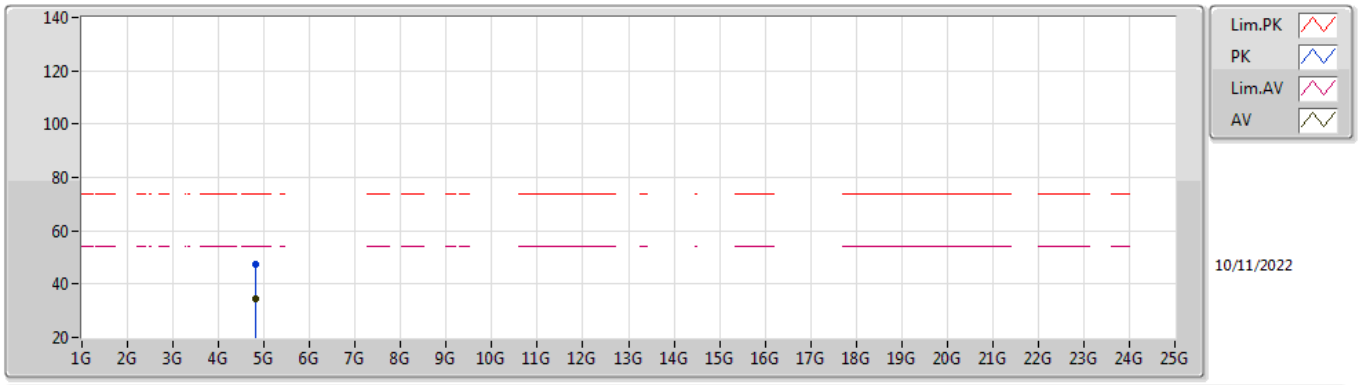


EUT Y_2TX
Setting 15
02-F-R-5

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	2.3896G	68.31	74.00	-5.69	36.74	3	Horizontal	23	2.24	-	28.38	3.19	-
AV	2.39G	51.45	54.00	-2.55	19.87	3	Horizontal	23	2.24	-	28.38	3.20	-
PK	2.4084G	110.61	Inf	-Inf	79.01	3	Horizontal	23	2.24	-	28.40	3.20	-
AV	2.41G	100.53	Inf	-Inf	68.92	3	Horizontal	23	2.24	-	28.40	3.21	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

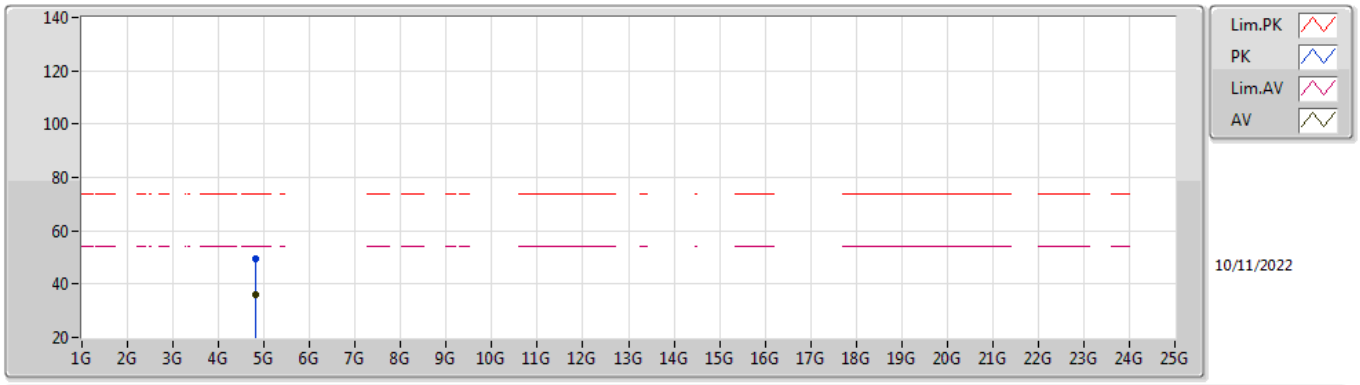


EUT X_2TX
Setting 15
02-F-R-5

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	4.8255G	47.57	74.00	-26.43	39.81	3	Vertical	133	2.42	-	32.95	5.61	30.80
AV	4.82556G	34.60	54.00	-19.40	26.84	3	Vertical	133	2.42	-	32.95	5.61	30.80

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

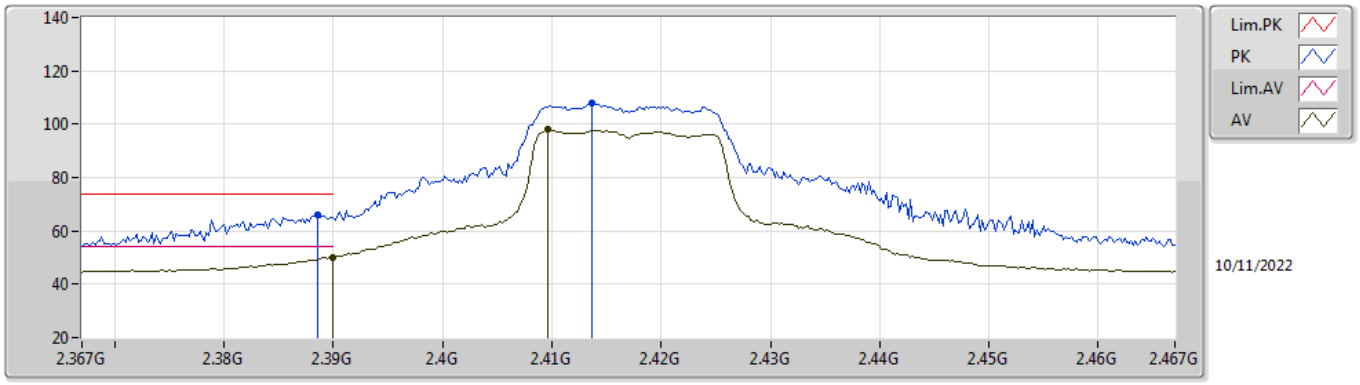


EUT X_2TX
Setting 15
02-F-R-5

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	4.82034G	49.32	74.00	-24.68	41.60	3	Horizontal	153	1.95	-	32.92	5.61	30.81
AV	4.82502G	35.98	54.00	-18.02	28.22	3	Horizontal	153	1.95	-	32.95	5.61	30.80

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

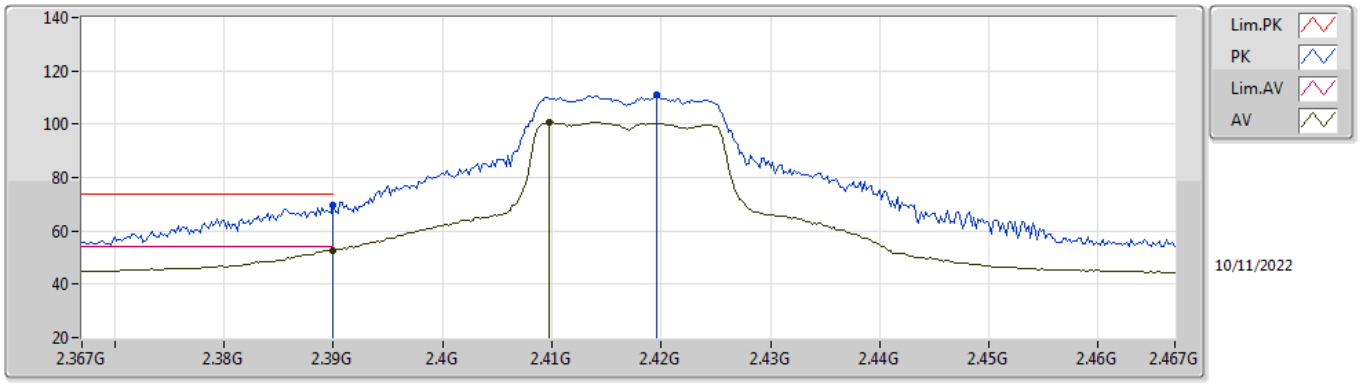


EUT Y_2TX
Setting 17
02-F-R-5

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	2.3886G	65.84	74.00	-8.16	34.27	3	Vertical	185	2.82	-	28.38	3.19	-
AV	2.39G	50.24	54.00	-3.76	18.66	3	Vertical	185	2.82	-	28.38	3.20	-
PK	2.4136G	107.70	Inf	-Inf	76.09	3	Vertical	185	2.82	-	28.40	3.21	-
AV	2.4096G	97.85	Inf	-Inf	66.25	3	Vertical	185	2.82	-	28.40	3.20	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

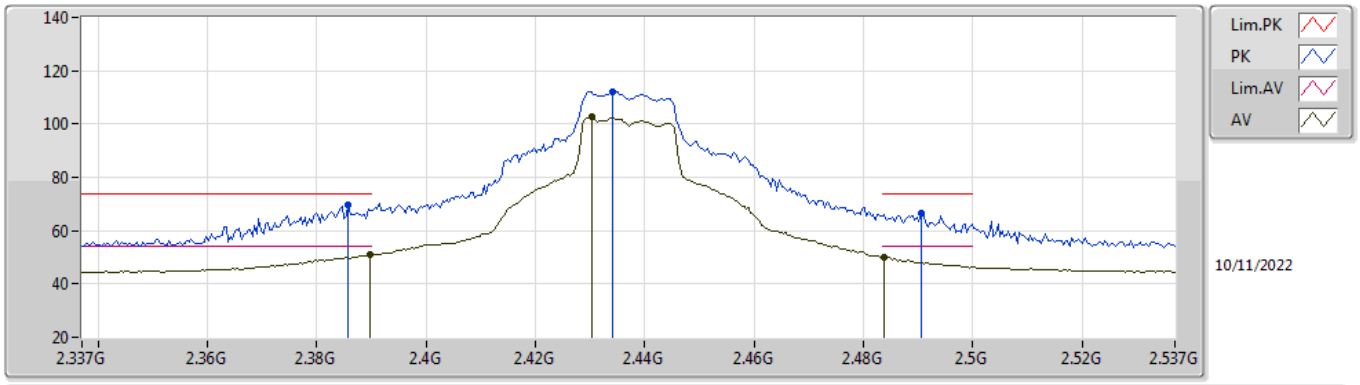


EUT Y_2TX
Setting 17
02-F-R-5

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	2.39G	69.81	74.00	-4.19	38.23	3	Horizontal	221	2.24	-	28.38	3.20	-
AV	2.39G	52.77	54.00	-1.23	21.19	3	Horizontal	221	2.24	-	28.38	3.20	-
PK	2.4196G	110.78	Inf	-Inf	79.17	3	Horizontal	221	2.24	-	28.40	3.21	-
AV	2.4098G	100.66	Inf	-Inf	69.06	3	Horizontal	221	2.24	-	28.40	3.20	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

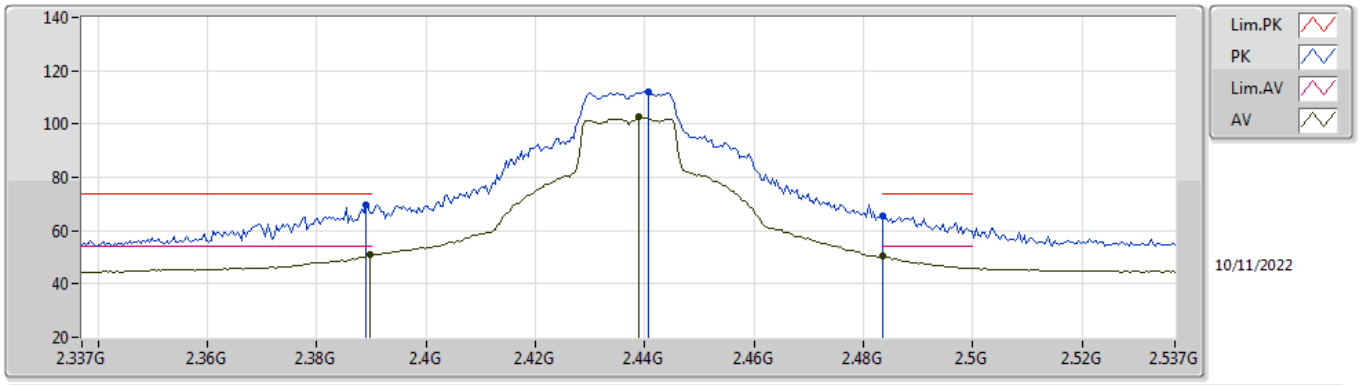


EUT Y_2TX
Setting 21
02-F-R-5

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	2.3858G	69.88	74.00	-4.12	38.32	3	Vertical	192	2.51	-	28.37	3.19	-
AV	2.3898G	51.05	54.00	-2.95	19.48	3	Vertical	192	2.51	-	28.38	3.19	-
PK	2.4342G	112.01	Inf	-Inf	80.39	3	Vertical	192	2.51	-	28.40	3.22	-
AV	2.4302G	102.56	Inf	-Inf	70.94	3	Vertical	192	2.51	-	28.40	3.22	-
PK	2.4906G	66.46	74.00	-7.54	34.65	3	Vertical	192	2.51	-	28.56	3.25	-
AV	2.4838G	49.90	54.00	-4.10	18.12	3	Vertical	192	2.51	-	28.54	3.24	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

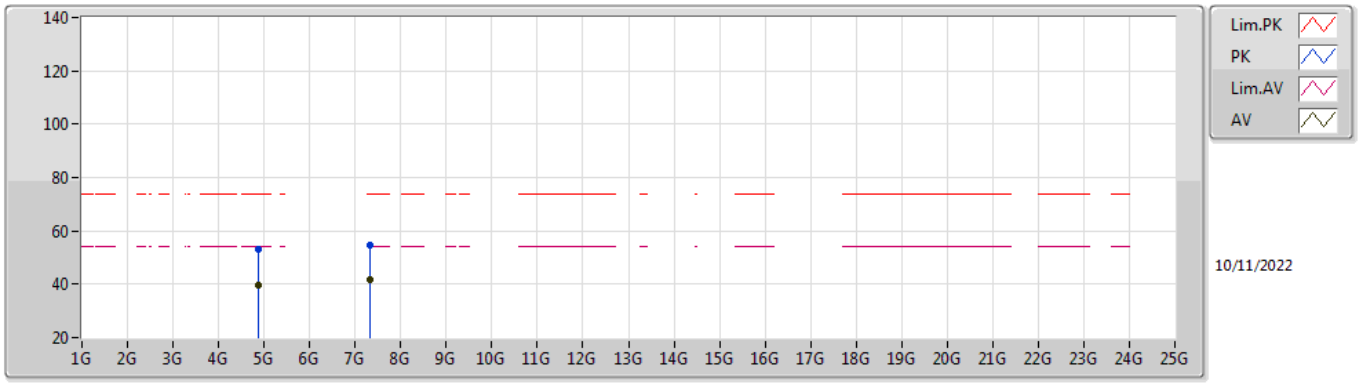


EUT Y_2TX
Setting 21
02-F-R-5

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	2.389G	69.90	74.00	-4.10	38.33	3	Horizontal	194	1.80	-	28.38	3.19	-
AV	2.3898G	50.93	54.00	-3.07	19.36	3	Horizontal	194	1.80	-	28.38	3.19	-
PK	2.4406G	112.15	Inf	-Inf	80.53	3	Horizontal	194	1.80	-	28.40	3.22	-
AV	2.439G	102.55	Inf	-Inf	70.93	3	Horizontal	194	1.80	-	28.40	3.22	-
PK	2.4835G	65.42	74.00	-8.58	33.65	3	Horizontal	194	1.80	-	28.53	3.24	-
AV	2.4835G	50.30	54.00	-3.70	18.53	3	Horizontal	194	1.80	-	28.53	3.24	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

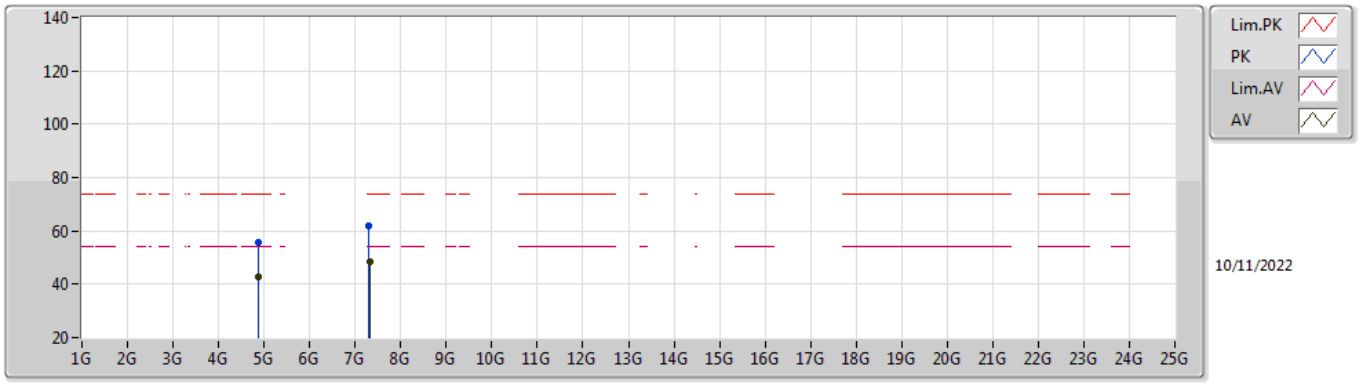


EUT X_2TX
Setting 21
02-F-R-5

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	4.87058G	52.87	74.00	-21.13	44.87	3	Vertical	132	2.52	-	33.14	5.64	30.78
AV	4.87112G	39.59	54.00	-14.41	31.59	3	Vertical	132	2.52	-	33.14	5.64	30.78
PK	7.3221G	54.86	74.00	-19.14	43.51	3	Vertical	-0	1.80	-	36.44	6.84	31.93
AV	7.31352G	41.88	54.00	-12.12	30.53	3	Vertical	-0	1.80	-	36.43	6.84	31.92

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

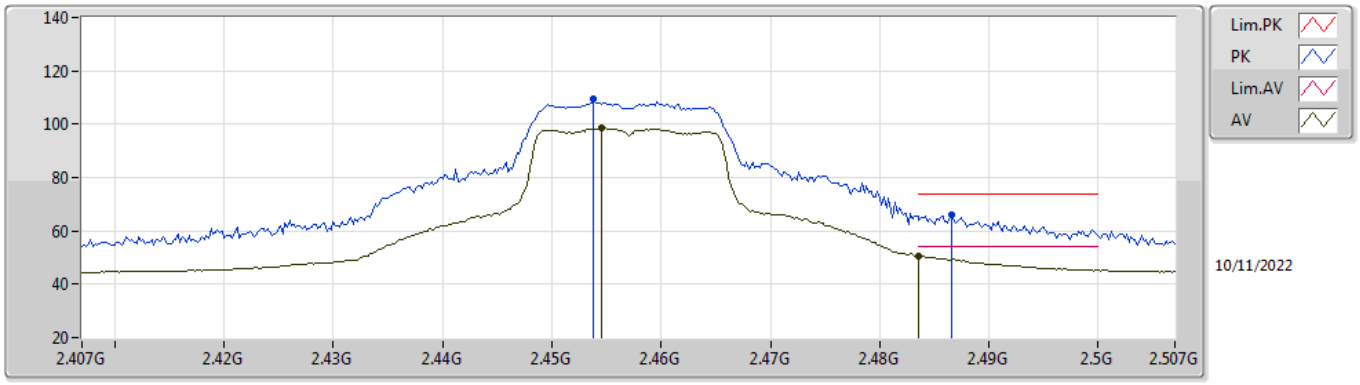


EUT X_2TX
Setting 21
02-F-R-5

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	4.87526G	55.52	74.00	-18.48	47.51	3	Horizontal	159	1.80	-	33.15	5.64	30.78
AV	4.87574G	42.54	54.00	-11.46	34.53	3	Horizontal	159	1.80	-	33.15	5.64	30.78
PK	7.30638G	61.73	74.00	-12.27	50.39	3	Horizontal	178	1.98	-	36.41	6.85	31.92
AV	7.31148G	48.44	54.00	-5.56	37.10	3	Horizontal	178	1.98	-	36.42	6.84	31.92

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

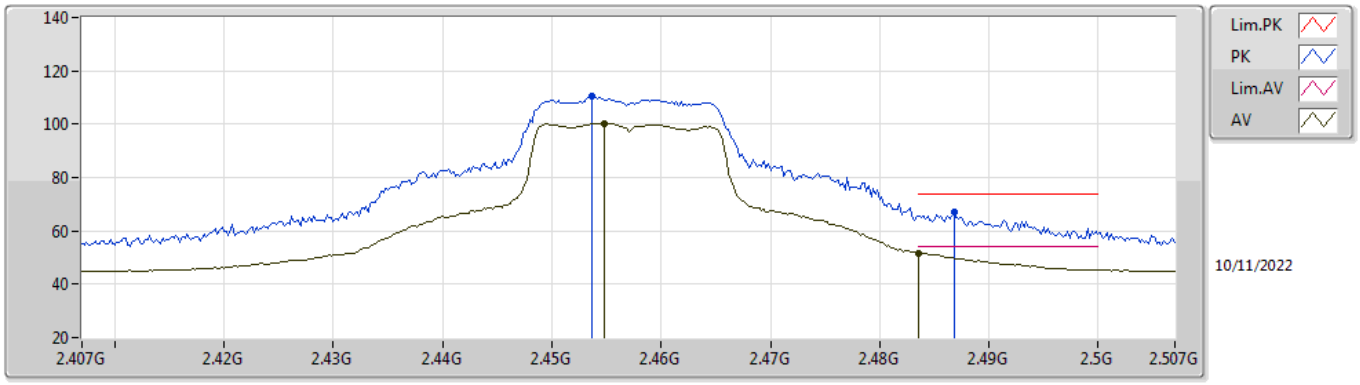


EUT Y_2TX
Setting 18
02-F-R-5

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	2.4538G	109.68	Inf	-Inf	78.03	3	Vertical	352	2.03	-	28.42	3.23	-
AV	2.4546G	98.62	Inf	-Inf	66.97	3	Vertical	352	2.03	-	28.42	3.23	-
PK	2.4866G	66.02	74.00	-7.98	34.23	3	Vertical	352	2.03	-	28.55	3.24	-
AV	2.4835G	50.77	54.00	-3.23	19.00	3	Vertical	352	2.03	-	28.53	3.24	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

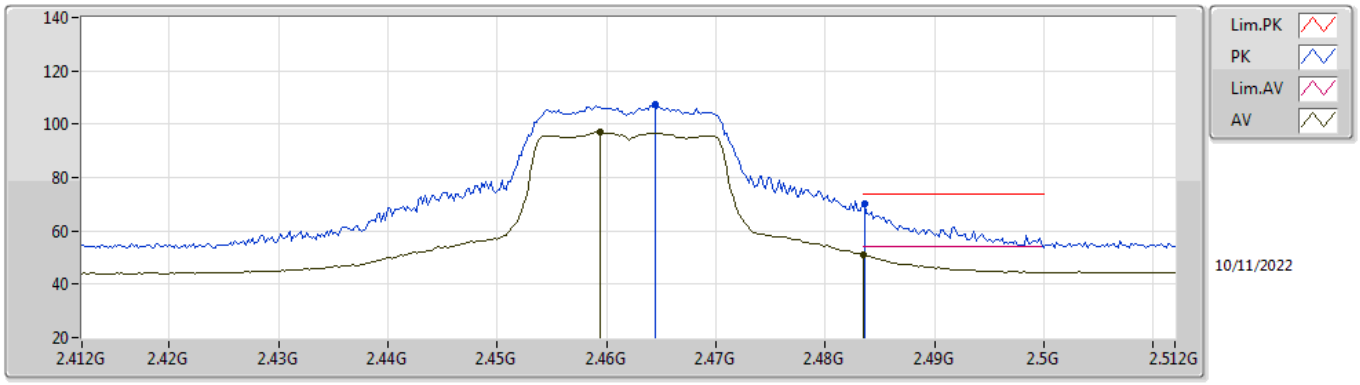


EUT Y_2TX
Setting 18
02-F-R-5

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	2.4536G	110.57	Inf	-Inf	78.93	3	Horizontal	199	1.80	-	28.41	3.23	-
AV	2.4548G	100.30	Inf	-Inf	68.65	3	Horizontal	199	1.80	-	28.42	3.23	-
PK	2.4868G	66.84	74.00	-7.16	35.05	3	Horizontal	199	1.80	-	28.55	3.24	-
AV	2.4836G	51.69	54.00	-2.31	19.92	3	Horizontal	199	1.80	-	28.53	3.24	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

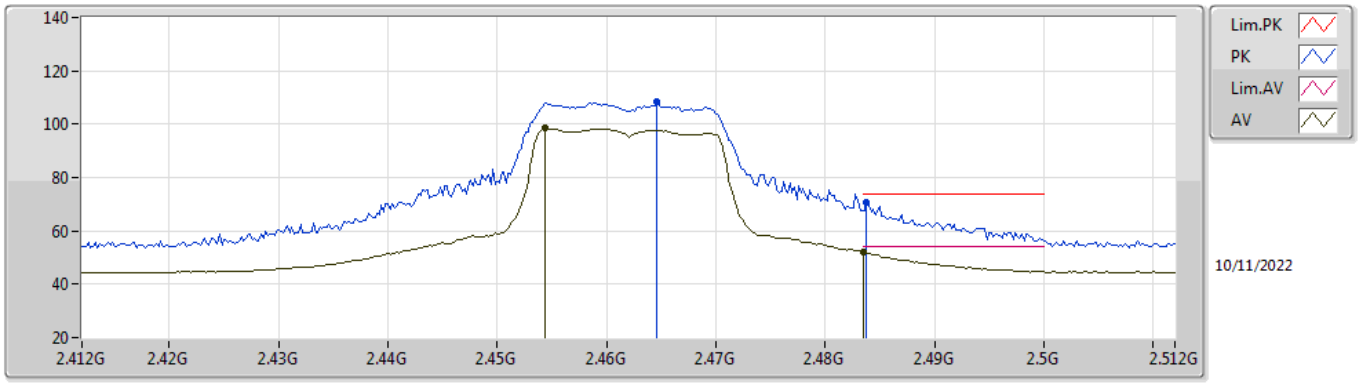


EUT Y_2TX
Setting 16
02-F-R-5

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	2.4644G	107.25	Inf	-Inf	75.56	3	Vertical	134	2.12	-	28.46	3.23	-
AV	2.4594G	96.87	Inf	-Inf	65.20	3	Vertical	134	2.12	-	28.44	3.23	-
PK	2.4836G	70.32	74.00	-3.68	38.55	3	Vertical	134	2.12	-	28.53	3.24	-
AV	2.4835G	51.11	54.00	-2.89	19.34	3	Vertical	134	2.12	-	28.53	3.24	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

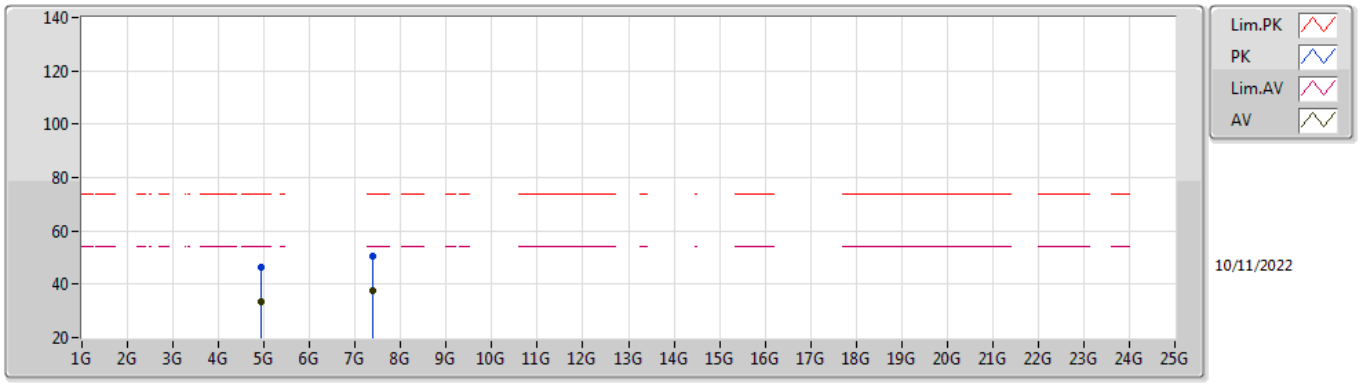


EUT Y_2TX
Setting 16
02-F-R-5

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	2.4646G	108.29	Inf	-Inf	76.60	3	Horizontal	199	1.80	-	28.46	3.23	-
AV	2.4544G	98.40	Inf	-Inf	66.75	3	Horizontal	199	1.80	-	28.42	3.23	-
PK	2.4838G	70.64	74.00	-3.36	38.86	3	Horizontal	199	1.80	-	28.54	3.24	-
AV	2.4835G	52.13	54.00	-1.87	20.36	3	Horizontal	199	1.80	-	28.53	3.24	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

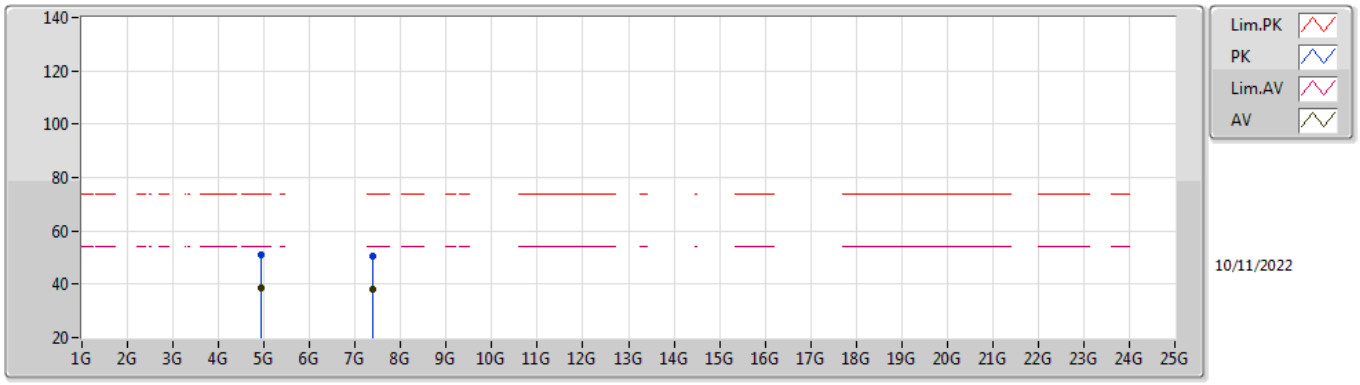


EUT X_2TX
Setting 16
02-F-R-5

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	4.92454G	46.20	74.00	-27.80	38.05	3	Vertical	338	2.28	-	33.25	5.66	30.76
AV	4.92928G	33.47	54.00	-20.53	25.31	3	Vertical	338	2.28	-	33.26	5.66	30.76
PK	7.38066G	50.38	74.00	-23.62	39.03	3	Vertical	172	1.83	-	36.50	6.81	31.96
AV	7.38396G	37.62	54.00	-16.38	26.27	3	Vertical	172	1.83	-	36.50	6.81	31.96

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

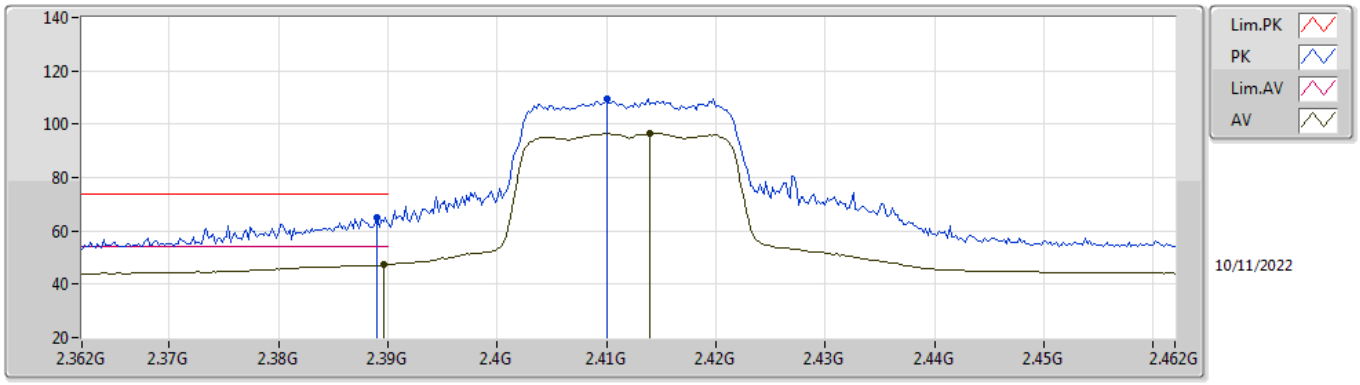


EUT X_2TX
Setting 16
02-F-R-5

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	4.92922G	50.99	74.00	-23.01	42.83	3	Horizontal	164	1.60	-	33.26	5.66	30.76
AV	4.92436G	38.48	54.00	-15.52	30.33	3	Horizontal	164	1.60	-	33.25	5.66	30.76
PK	7.38918G	50.72	74.00	-23.28	39.38	3	Horizontal	311	2.50	-	36.50	6.81	31.97
AV	7.3824G	38.25	54.00	-15.75	26.90	3	Horizontal	311	2.50	-	36.50	6.81	31.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

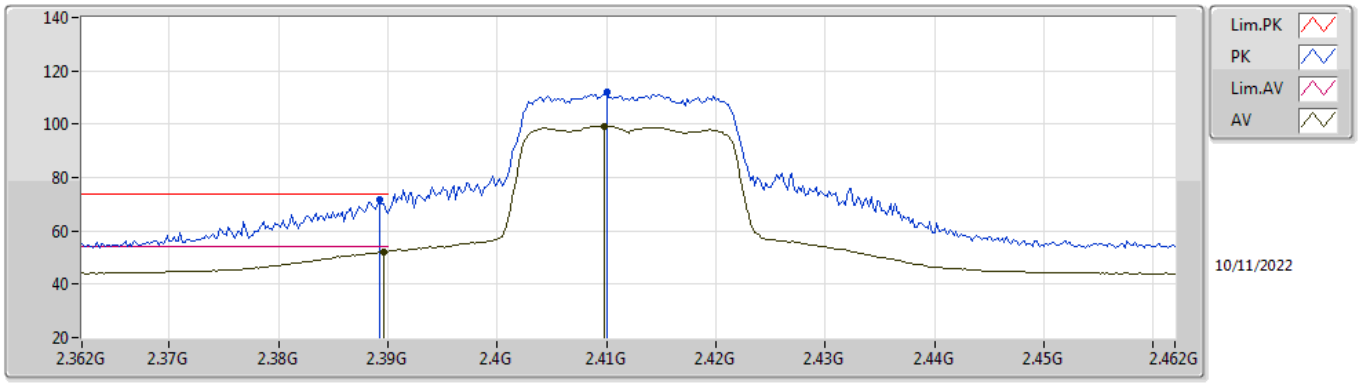


EUT Y_2TX
Setting 14
02-F-R-5

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	2.389G	65.10	74.00	-8.90	33.53	3	Vertical	190	2.93	-	28.38	3.19	-
AV	2.3896G	47.37	54.00	-6.63	15.80	3	Vertical	190	2.93	-	28.38	3.19	-
PK	2.41G	109.45	Inf	-Inf	77.84	3	Vertical	190	2.93	-	28.40	3.21	-
AV	2.414G	96.52	Inf	-Inf	64.91	3	Vertical	190	2.93	-	28.40	3.21	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

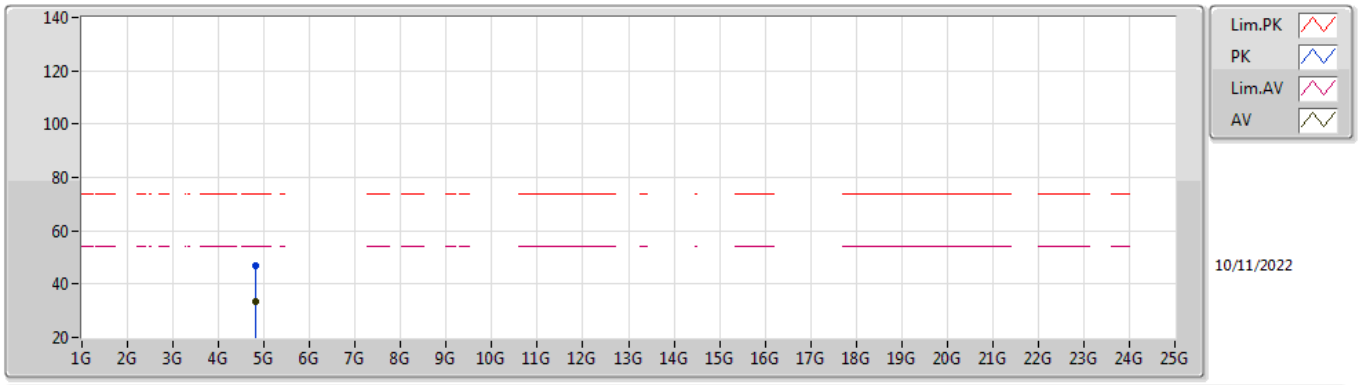


EUT Y_2TX
Setting 14
02-F-R-5

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	2.3892G	71.61	74.00	-2.39	40.04	3	Horizontal	23	2.24	-	28.38	3.19	-
AV	2.3896G	52.16	54.00	-1.84	20.59	3	Horizontal	23	2.24	-	28.38	3.19	-
PK	2.41G	112.17	Inf	-Inf	80.56	3	Horizontal	23	2.24	-	28.40	3.21	-
AV	2.4098G	99.35	Inf	-Inf	67.75	3	Horizontal	23	2.24	-	28.40	3.20	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

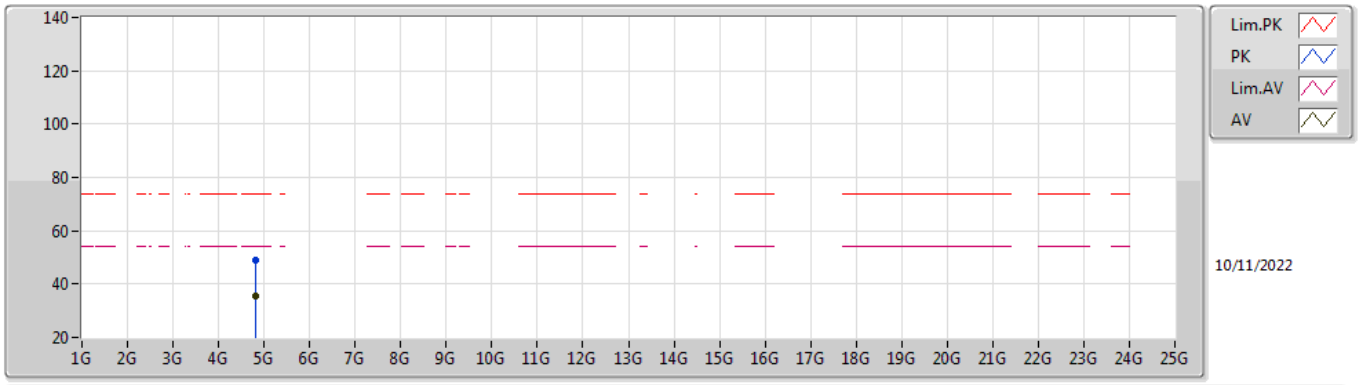


EUT X_2TX
Setting 14
02-F-R-5

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	4.82562G	46.70	74.00	-27.30	38.94	3	Vertical	37	2.69	-	32.95	5.61	30.80
AV	4.82502G	33.32	54.00	-20.68	25.56	3	Vertical	37	2.69	-	32.95	5.61	30.80

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

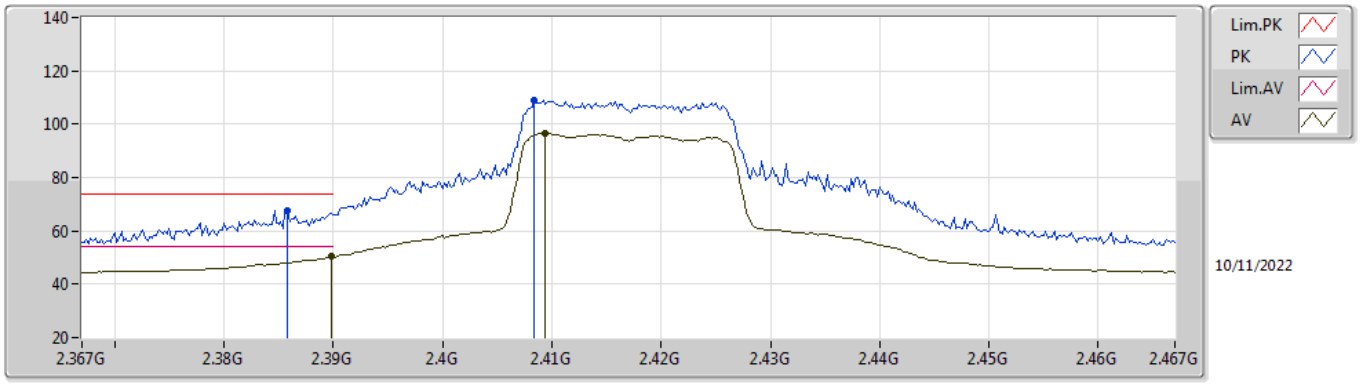


EUT X_2TX
Setting 14
02-F-R-5

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	4.82526G	49.03	74.00	-24.97	41.27	3	Horizontal	164	1.68	-	32.95	5.61	30.80
AV	4.82532G	35.64	54.00	-18.36	27.88	3	Horizontal	164	1.68	-	32.95	5.61	30.80

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

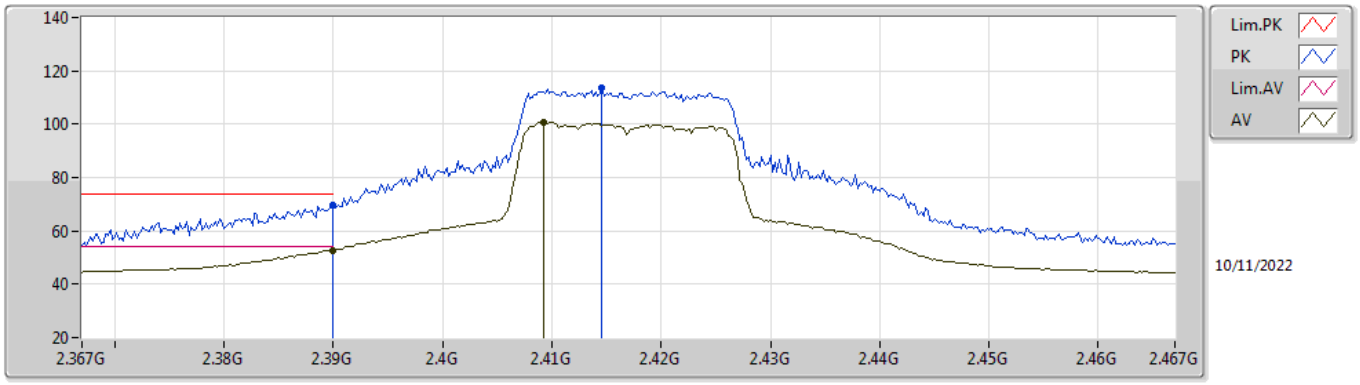


EUT Y_2TX
Setting 16
02-F-R-5

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	2.3858G	67.78	74.00	-6.22	36.22	3	Vertical	190	2.81	-	28.37	3.19	-
AV	2.3898G	50.26	54.00	-3.74	18.69	3	Vertical	190	2.81	-	28.38	3.19	-
PK	2.4084G	108.85	Inf	-Inf	77.25	3	Vertical	190	2.81	-	28.40	3.20	-
AV	2.4094G	96.62	Inf	-Inf	65.02	3	Vertical	190	2.81	-	28.40	3.20	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

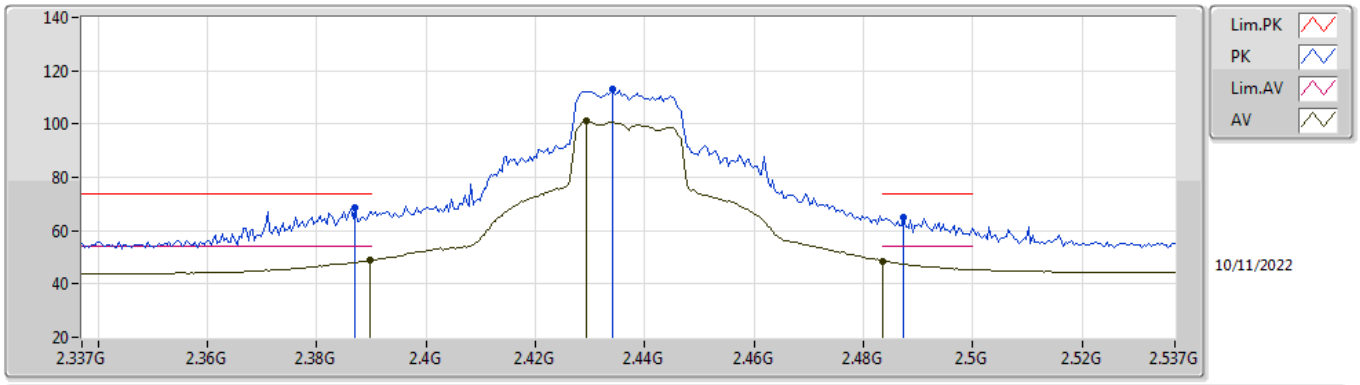


EUT Y_2TX
Setting 16
02-F-R-5

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	2.39G	69.54	74.00	-4.46	37.96	3	Horizontal	214	2.24	-	28.38	3.20	-
AV	2.39G	52.77	54.00	-1.23	21.19	3	Horizontal	214	2.24	-	28.38	3.20	-
PK	2.4146G	113.42	Inf	-Inf	81.81	3	Horizontal	214	2.24	-	28.40	3.21	-
AV	2.4092G	100.86	Inf	-Inf	69.26	3	Horizontal	214	2.24	-	28.40	3.20	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

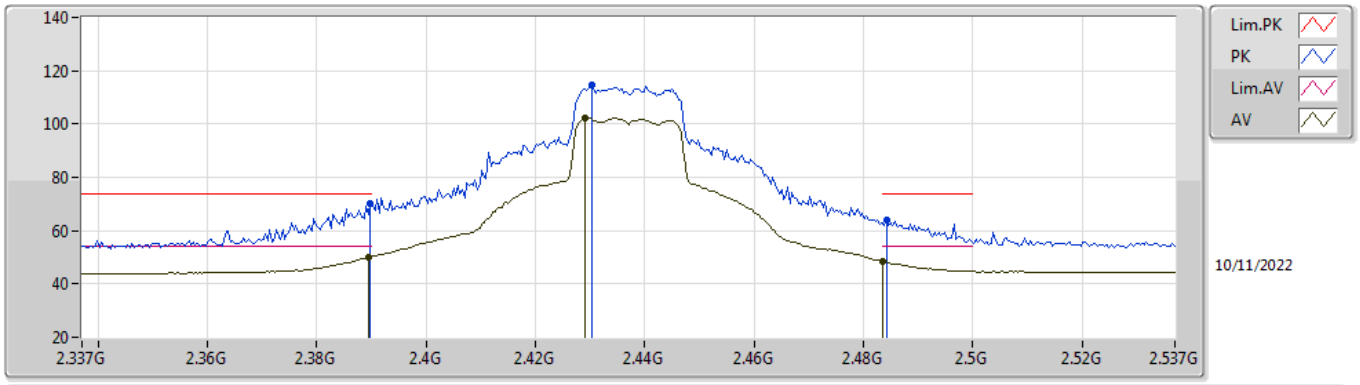


EUT Y_2TX
Setting 20
02-F-R-5

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	2.387G	68.48	74.00	-5.52	36.92	3	Vertical	193	2.50	-	28.37	3.19	-
AV	2.3898G	48.79	54.00	-5.21	17.22	3	Vertical	193	2.50	-	28.38	3.19	-
PK	2.4342G	112.93	Inf	-Inf	81.31	3	Vertical	193	2.50	-	28.40	3.22	-
AV	2.4294G	101.04	Inf	-Inf	69.43	3	Vertical	193	2.50	-	28.40	3.21	-
PK	2.4874G	64.77	74.00	-9.23	32.98	3	Vertical	193	2.50	-	28.55	3.24	-
AV	2.4835G	48.67	54.00	-5.33	16.90	3	Vertical	193	2.50	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

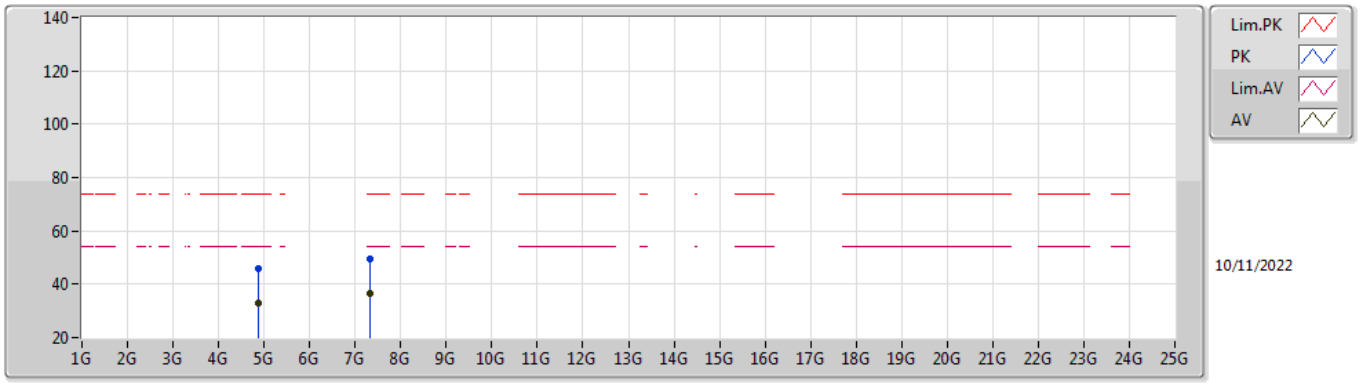


EUT Y_2TX
Setting 20
02-F-R-5

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	2.3898G	70.34	74.00	-3.66	38.77	3	Horizontal	25	2.20	-	28.38	3.19	-
AV	2.3894G	50.05	54.00	-3.95	18.48	3	Horizontal	25	2.20	-	28.38	3.19	-
PK	2.4302G	114.86	Inf	-Inf	83.24	3	Horizontal	25	2.20	-	28.40	3.22	-
AV	2.429G	102.11	Inf	-Inf	70.50	3	Horizontal	25	2.20	-	28.40	3.21	-
PK	2.4842G	64.21	74.00	-9.79	32.43	3	Horizontal	25	2.20	-	28.54	3.24	-
AV	2.4835G	48.44	54.00	-5.56	16.67	3	Horizontal	25	2.20	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

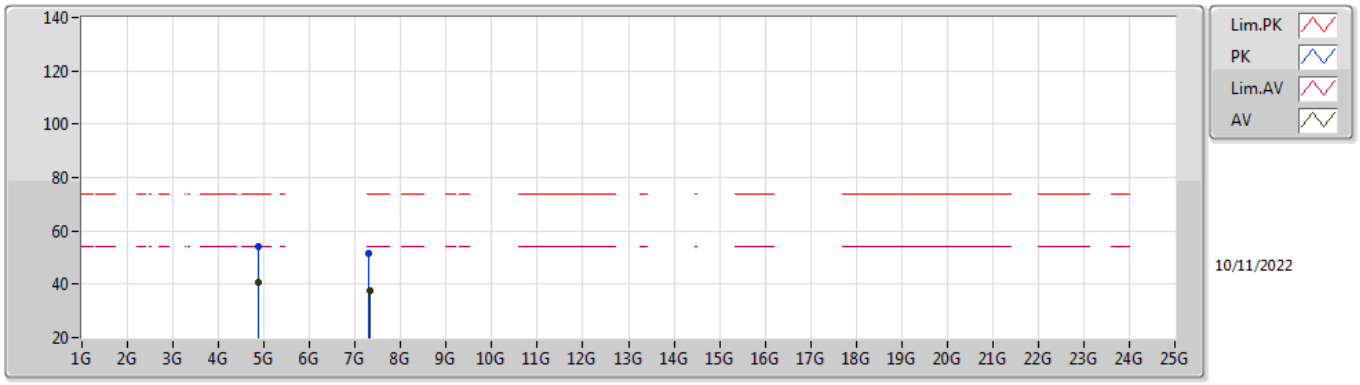


EUT X_2TX
Setting 20
02-F-R-5

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	4.8686G	45.89	74.00	-28.11	37.91	3	Vertical	242	1.05	-	33.14	5.63	30.79
AV	4.87394G	32.84	54.00	-21.16	24.83	3	Vertical	242	1.05	-	33.15	5.64	30.78
PK	7.32246G	49.67	74.00	-24.33	38.32	3	Vertical	146	2.23	-	36.44	6.84	31.93
AV	7.3209G	36.66	54.00	-17.34	25.31	3	Vertical	146	2.23	-	36.44	6.84	31.93

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

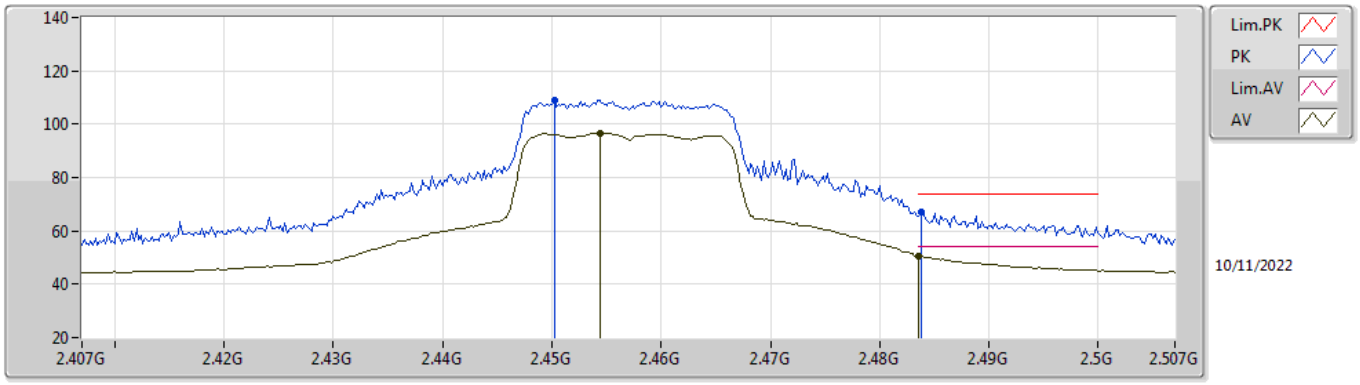


EUT X_2TX
Setting 20
02-F-R-5

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	4.87544G	54.35	74.00	-19.65	46.34	3	Horizontal	159	1.80	-	33.15	5.64	30.78
AV	4.87526G	40.94	54.00	-13.06	32.93	3	Horizontal	159	1.80	-	33.15	5.64	30.78
PK	7.30698G	51.58	74.00	-22.42	40.24	3	Horizontal	222	2.96	-	36.41	6.85	31.92
AV	7.31682G	37.60	54.00	-16.40	26.25	3	Horizontal	222	2.96	-	36.43	6.84	31.92

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

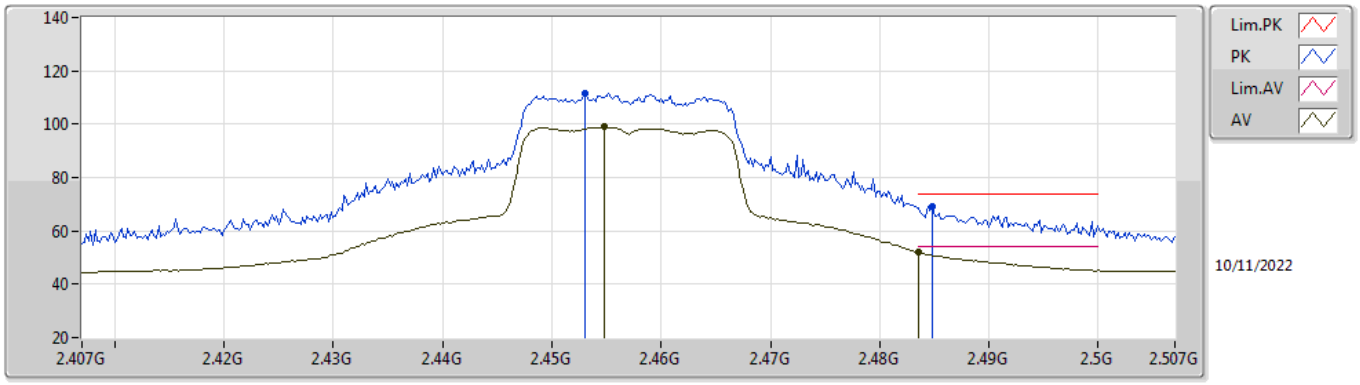


EUT Y_2TX
Setting 17
02-F-R-5

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	2.4502G	109.00	Inf	-Inf	77.37	3	Vertical	360	2.03	-	28.40	3.23	-
AV	2.4544G	96.62	Inf	-Inf	64.97	3	Vertical	360	2.03	-	28.42	3.23	-
PK	2.4838G	67.31	74.00	-6.69	35.53	3	Vertical	360	2.03	-	28.54	3.24	-
AV	2.4836G	50.65	54.00	-3.35	18.88	3	Vertical	360	2.03	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

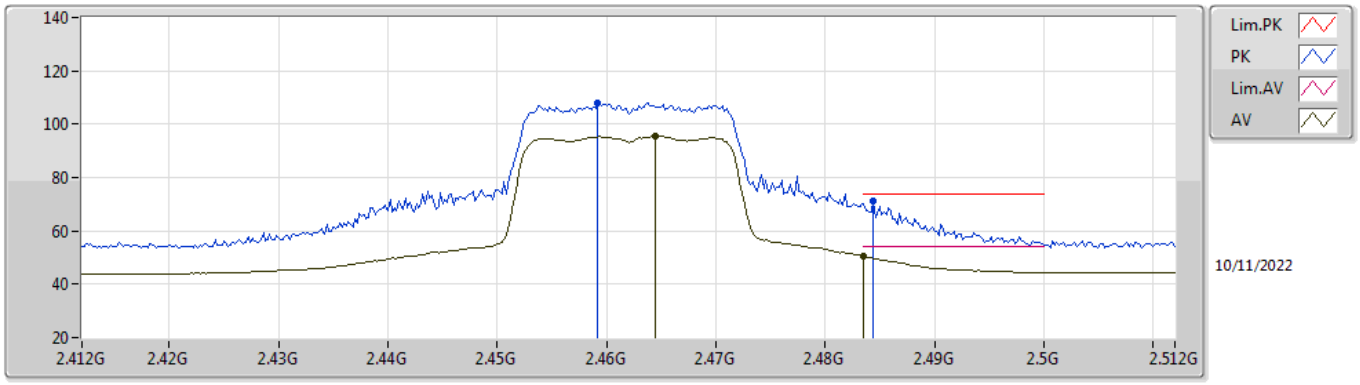


EUT Y_2TX
Setting 17
02-F-R-5

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	2.453G	111.65	Inf	-Inf	80.01	3	Horizontal	199	1.80	-	28.41	3.23	-
AV	2.4548G	98.92	Inf	-Inf	67.27	3	Horizontal	199	1.80	-	28.42	3.23	-
PK	2.4848G	69.20	74.00	-4.80	37.42	3	Horizontal	199	1.80	-	28.54	3.24	-
AV	2.4835G	51.98	54.00	-2.02	20.21	3	Horizontal	199	1.80	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

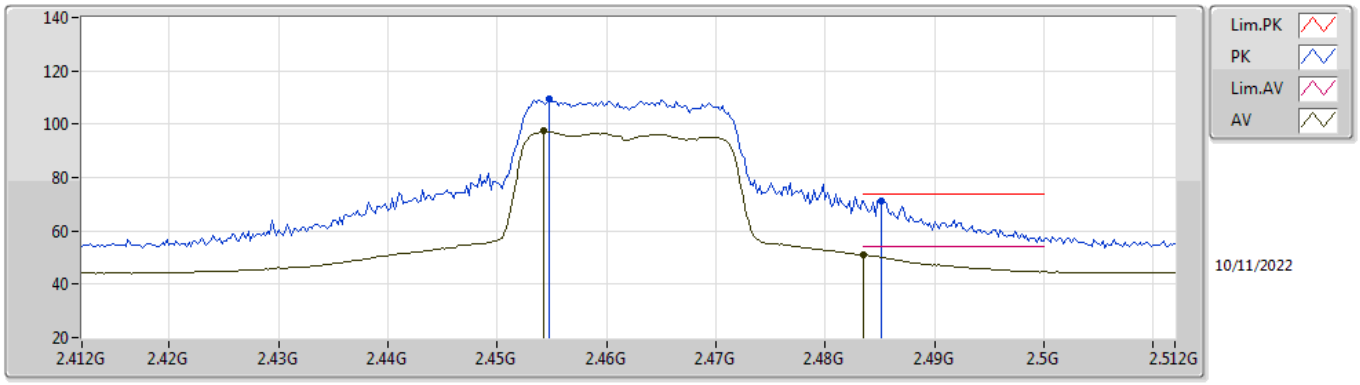


EUT Y_2TX
Setting 15
02-F-R-5

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	2.4592G	107.83	Inf	-Inf	76.16	3	Vertical	130	2.13	-	28.44	3.23	-
AV	2.4644G	95.55	Inf	-Inf	63.86	3	Vertical	130	2.13	-	28.46	3.23	-
PK	2.4844G	71.10	74.00	-2.90	39.32	3	Vertical	130	2.13	-	28.54	3.24	-
AV	2.4835G	50.39	54.00	-3.61	18.62	3	Vertical	130	2.13	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

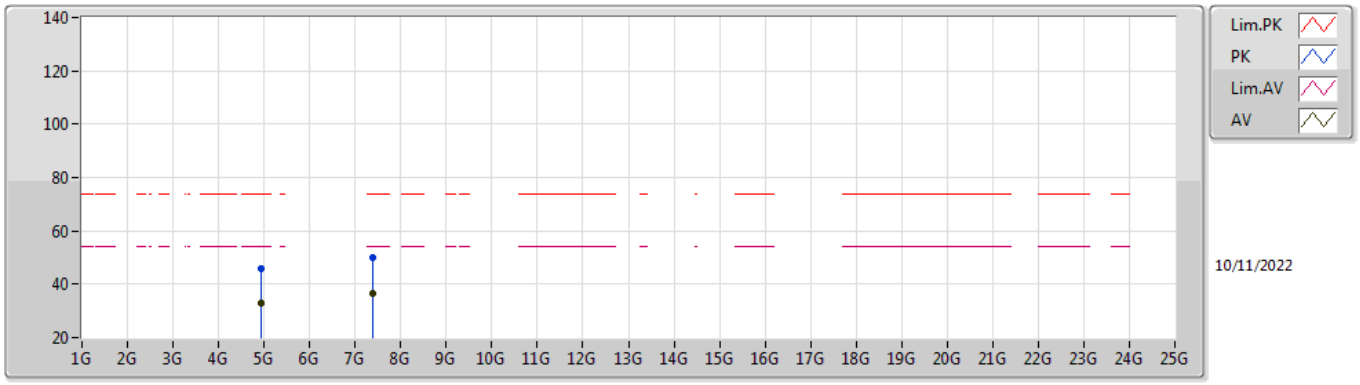


EUT Y_2TX
Setting 15
02-F-R-5

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	2.4548G	109.43	Inf	-Inf	77.78	3	Horizontal	196	1.80	-	28.42	3.23	-
AV	2.4542G	97.33	Inf	-Inf	65.68	3	Horizontal	196	1.80	-	28.42	3.23	-
PK	2.4852G	71.42	74.00	-2.58	39.64	3	Horizontal	196	1.80	-	28.54	3.24	-
AV	2.4835G	50.86	54.00	-3.14	19.09	3	Horizontal	196	1.80	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

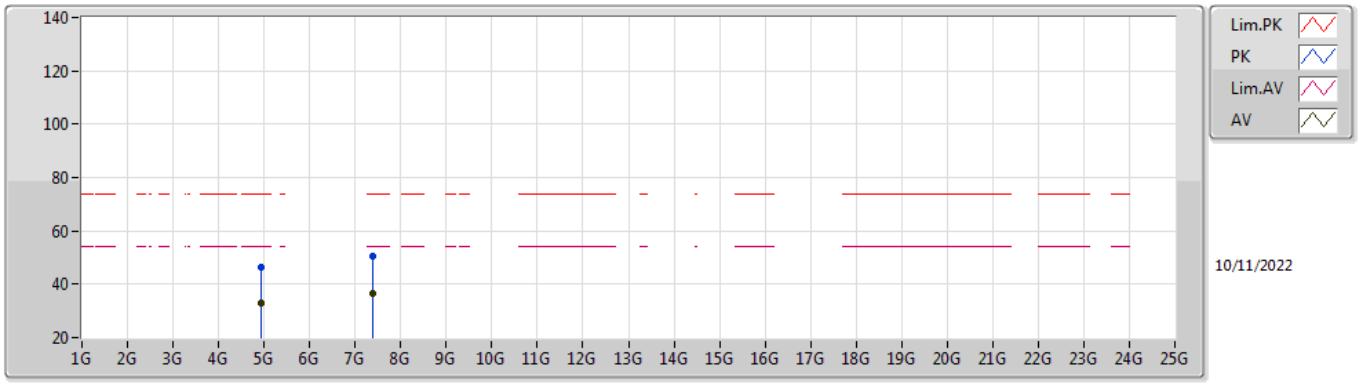


EUT X_2TX
Setting 15
02-F-R-5

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	4.91954G	46.01	74.00	-27.99	37.87	3	Vertical	139	1.22	-	33.24	5.66	30.76
AV	4.92434G	32.77	54.00	-21.23	24.62	3	Vertical	139	1.22	-	33.25	5.66	30.76
PK	7.3815G	49.97	74.00	-24.03	38.62	3	Vertical	30	1.36	-	36.50	6.81	31.96
AV	7.3856G	36.72	54.00	-17.28	25.37	3	Vertical	30	1.36	-	36.50	6.81	31.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

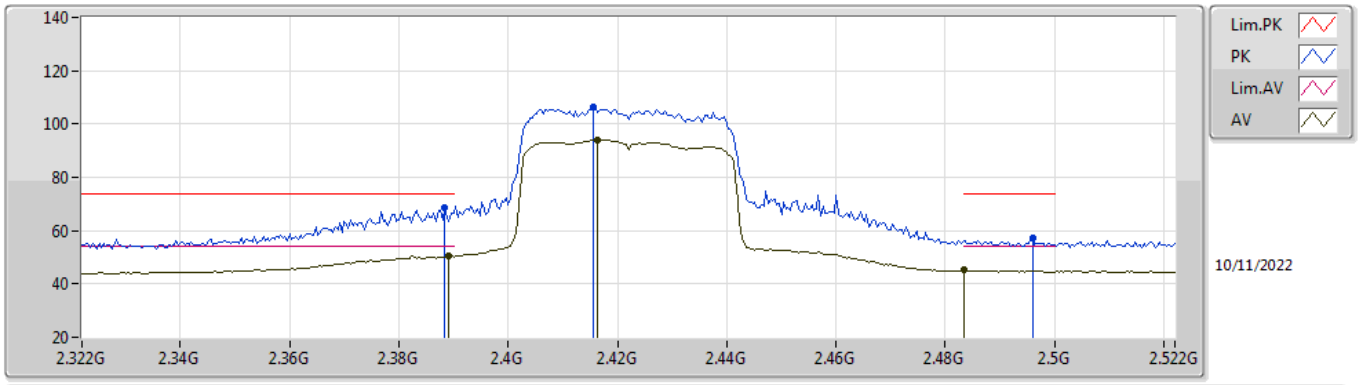


EUT X_2TX
Setting 15
02-F-R-5

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	4.9228G	46.29	74.00	-27.71	38.14	3	Horizontal	304	1.82	-	33.25	5.66	30.76
AV	4.92364G	32.69	54.00	-21.31	24.54	3	Horizontal	304	1.82	-	33.25	5.66	30.76
PK	7.3893G	50.26	74.00	-23.74	38.92	3	Horizontal	202	2.90	-	36.50	6.81	31.97
AV	7.38234G	36.78	54.00	-17.22	25.43	3	Horizontal	202	2.90	-	36.50	6.81	31.96

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

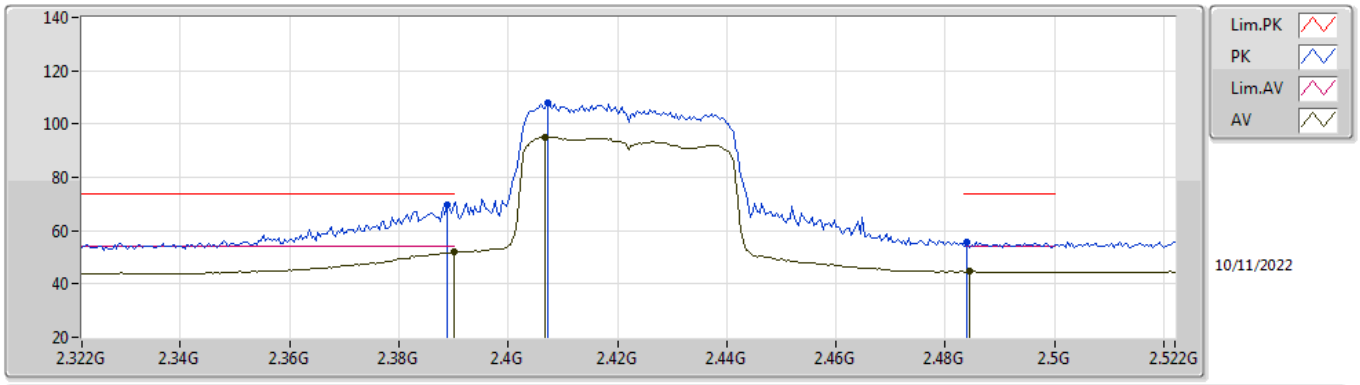


EUT Y_2TX
Setting 13
02-F-R-5

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	2.3884G	68.42	74.00	-5.58	36.85	3	Vertical	187	2.97	-	28.38	3.19	-
AV	2.3892G	50.33	54.00	-3.67	18.76	3	Vertical	187	2.97	-	28.38	3.19	-
PK	2.4156G	106.36	Inf	-Inf	74.75	3	Vertical	187	2.97	-	28.40	3.21	-
AV	2.4164G	94.17	Inf	-Inf	62.56	3	Vertical	187	2.97	-	28.40	3.21	-
PK	2.496G	57.02	74.00	-16.98	25.19	3	Vertical	187	2.97	-	28.58	3.25	-
AV	2.4835G	45.15	54.00	-8.85	13.38	3	Vertical	187	2.97	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

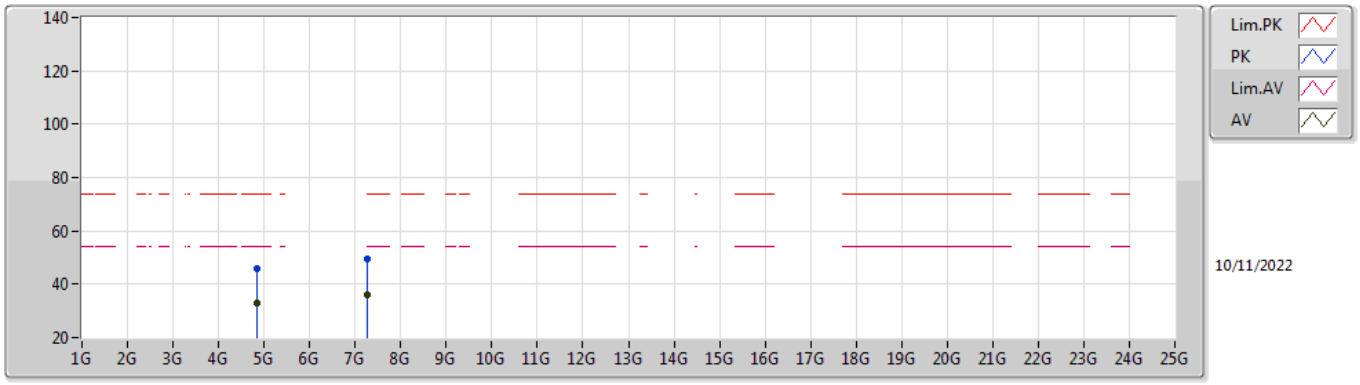


EUT Y_2TX
Setting 13
02-F-R-5

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	2.3888G	69.70	74.00	-4.30	38.13	3	Horizontal	25	2.24	-	28.38	3.19	-
AV	2.39G	51.88	54.00	-2.12	20.30	3	Horizontal	25	2.24	-	28.38	3.20	-
PK	2.4072G	108.10	Inf	-Inf	76.50	3	Horizontal	25	2.24	-	28.40	3.20	-
AV	2.4068G	95.23	Inf	-Inf	63.63	3	Horizontal	25	2.24	-	28.40	3.20	-
PK	2.484G	55.48	74.00	-18.52	23.70	3	Horizontal	25	2.24	-	28.54	3.24	-
AV	2.4844G	44.67	54.00	-9.33	12.89	3	Horizontal	25	2.24	-	28.54	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

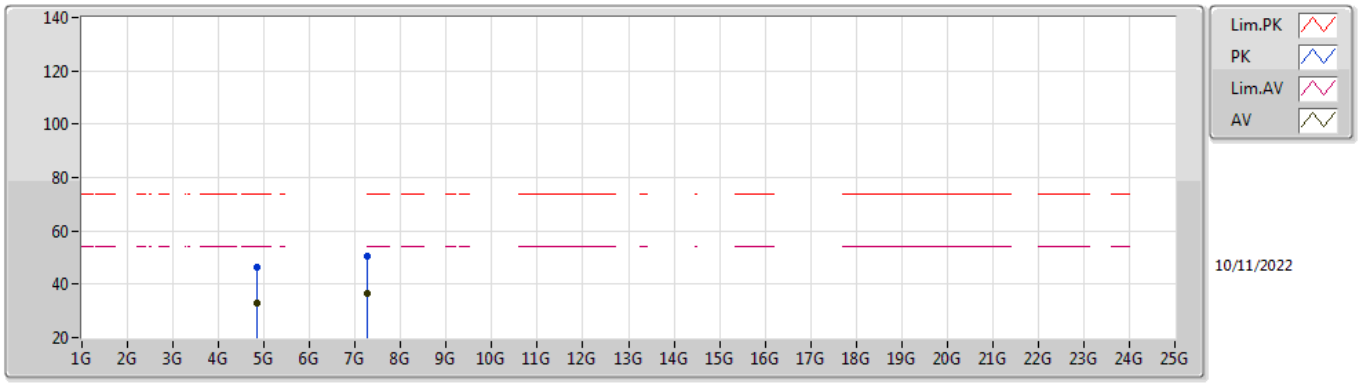


EUT X_2TX
Setting 13
02-F-R-5

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	4.83994G	45.70	74.00	-28.30	37.84	3	Vertical	119	2.93	-	33.04	5.62	30.80
AV	4.84214G	32.72	54.00	-21.28	24.85	3	Vertical	119	2.93	-	33.05	5.62	30.80
PK	7.26638G	49.24	74.00	-24.76	37.99	3	Vertical	134	1.31	-	36.27	6.87	31.89
AV	7.26688G	36.28	54.00	-17.72	25.03	3	Vertical	134	1.31	-	36.27	6.87	31.89

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

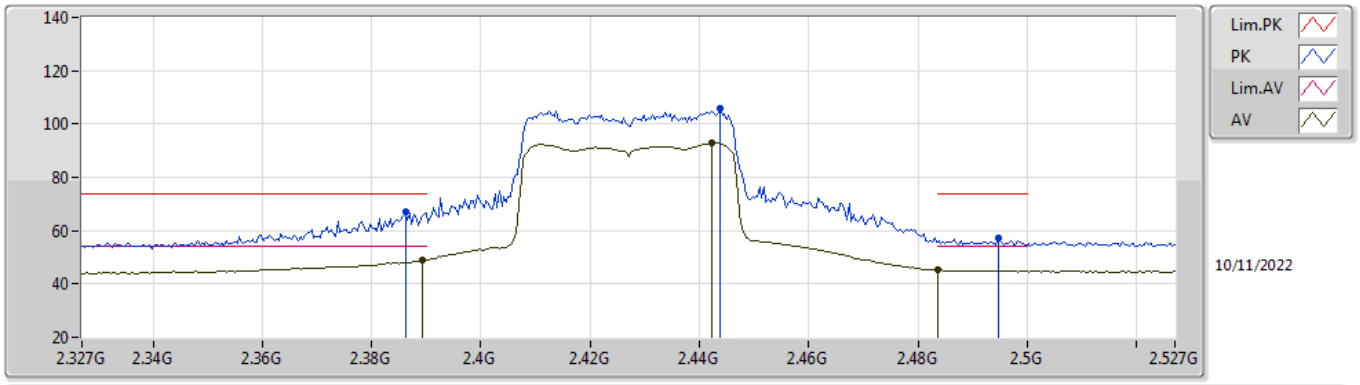


EUT X_2TX
Setting 13
02-F-R-5

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	4.84702G	46.27	74.00	-27.73	38.36	3	Horizontal	292	1.05	-	33.08	5.62	30.79
AV	4.84496G	32.76	54.00	-21.24	24.87	3	Horizontal	292	1.05	-	33.07	5.62	30.80
PK	7.27074G	50.34	74.00	-23.66	39.10	3	Horizontal	125	2.96	-	36.28	6.86	31.90
AV	7.26166G	36.54	54.00	-17.46	25.31	3	Horizontal	125	2.96	-	36.25	6.87	31.89

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2427MHz_TX

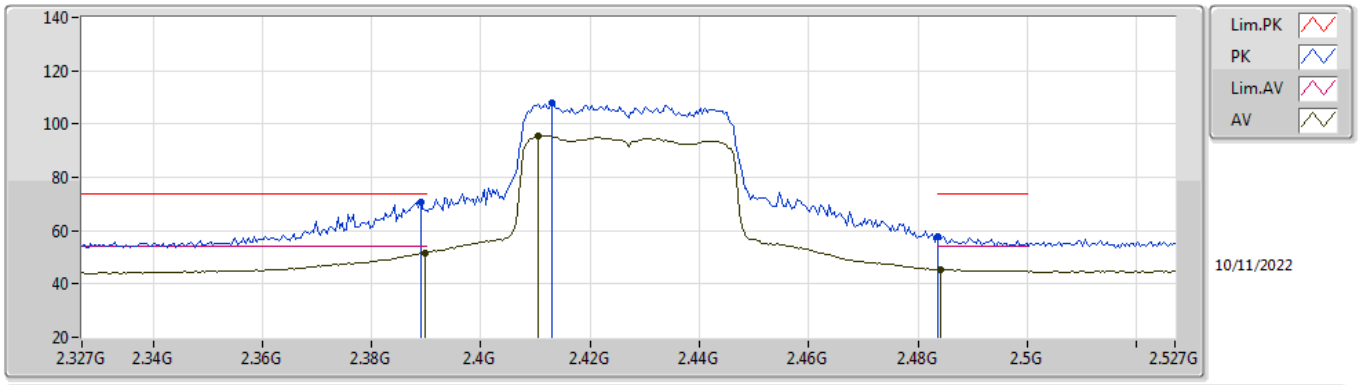


EUT Y_2TX
Setting 14
02-F-R-5

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	2.3862G	66.96	74.00	-7.04	35.40	3	Vertical	191	2.82	-	28.37	3.19	-
AV	2.3894G	48.90	54.00	-5.10	17.33	3	Vertical	191	2.82	-	28.38	3.19	-
PK	2.4438G	105.65	Inf	-Inf	74.03	3	Vertical	191	2.82	-	28.40	3.22	-
AV	2.4422G	93.07	Inf	-Inf	61.45	3	Vertical	191	2.82	-	28.40	3.22	-
PK	2.4946G	57.29	74.00	-16.71	25.46	3	Vertical	191	2.82	-	28.58	3.25	-
AV	2.4835G	45.19	54.00	-8.81	13.42	3	Vertical	191	2.82	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2427MHz_TX

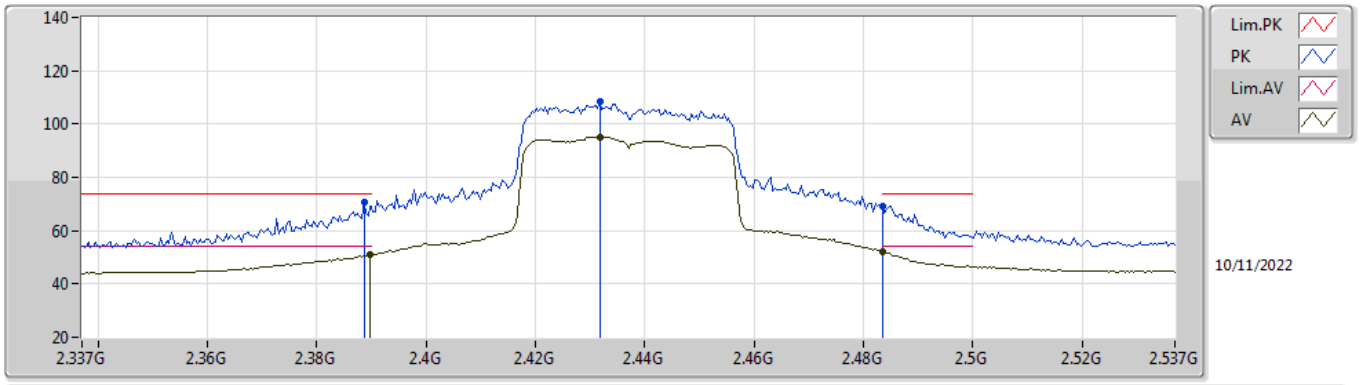


EUT Y_2TX
Setting 14
02-F-R-5

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	2.389G	70.67	74.00	-3.33	39.10	3	Horizontal	219	2.24	-	28.38	3.19	-
AV	2.3898G	51.71	54.00	-2.29	20.14	3	Horizontal	219	2.24	-	28.38	3.19	-
PK	2.413G	107.96	Inf	-Inf	76.35	3	Horizontal	219	2.24	-	28.40	3.21	-
AV	2.4106G	95.77	Inf	-Inf	64.16	3	Horizontal	219	2.24	-	28.40	3.21	-
PK	2.4835G	57.86	74.00	-16.14	26.09	3	Horizontal	219	2.24	-	28.53	3.24	-
AV	2.4842G	45.30	54.00	-8.70	13.52	3	Horizontal	219	2.24	-	28.54	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

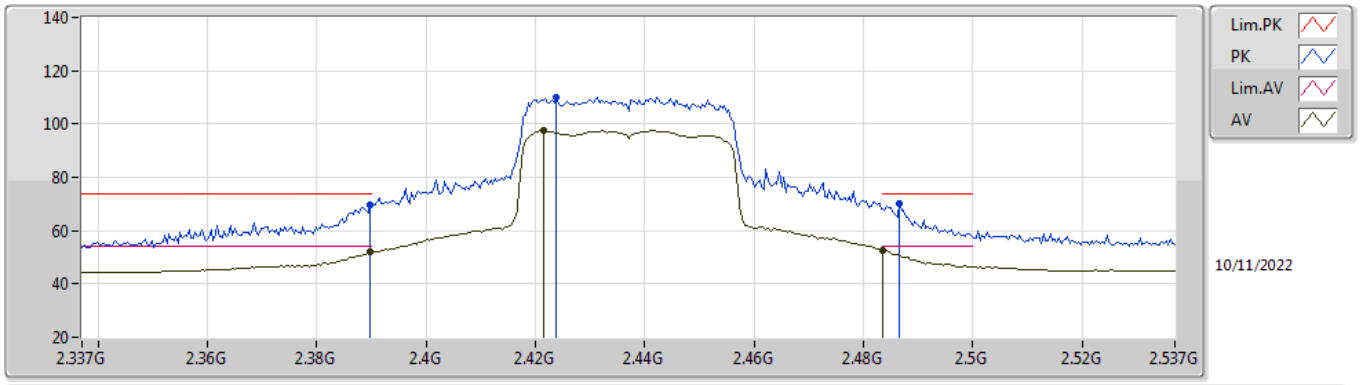


EUT Y_2TX
Setting 16
02-F-R-5

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	2.3886G	70.72	74.00	-3.28	39.15	3	Vertical	193	2.49	-	28.38	3.19	-
AV	2.3898G	51.20	54.00	-2.80	19.63	3	Vertical	193	2.49	-	28.38	3.19	-
PK	2.4318G	108.25	Inf	-Inf	76.63	3	Vertical	193	2.49	-	28.40	3.22	-
AV	2.4318G	95.24	Inf	-Inf	63.62	3	Vertical	193	2.49	-	28.40	3.22	-
PK	2.4835G	68.95	74.00	-5.05	37.18	3	Vertical	193	2.49	-	28.53	3.24	-
AV	2.4835G	51.90	54.00	-2.10	20.13	3	Vertical	193	2.49	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

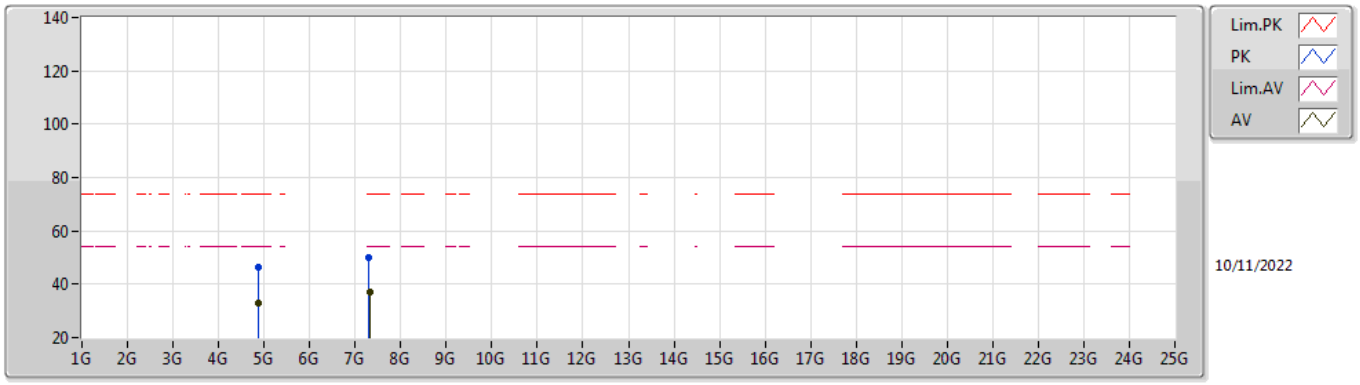


EUT Y_2TX
Setting 16
02-F-R-5

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	2.3898G	69.68	74.00	-4.32	38.11	3	Horizontal	214	2.19	-	28.38	3.19	-
AV	2.3898G	51.87	54.00	-2.13	20.30	3	Horizontal	214	2.19	-	28.38	3.19	-
PK	2.4238G	109.99	Inf	-Inf	78.38	3	Horizontal	214	2.19	-	28.40	3.21	-
AV	2.4214G	97.56	Inf	-Inf	65.95	3	Horizontal	214	2.19	-	28.40	3.21	-
PK	2.4866G	70.04	74.00	-3.96	38.25	3	Horizontal	214	2.19	-	28.55	3.24	-
AV	2.4835G	52.74	54.00	-1.26	20.97	3	Horizontal	214	2.19	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

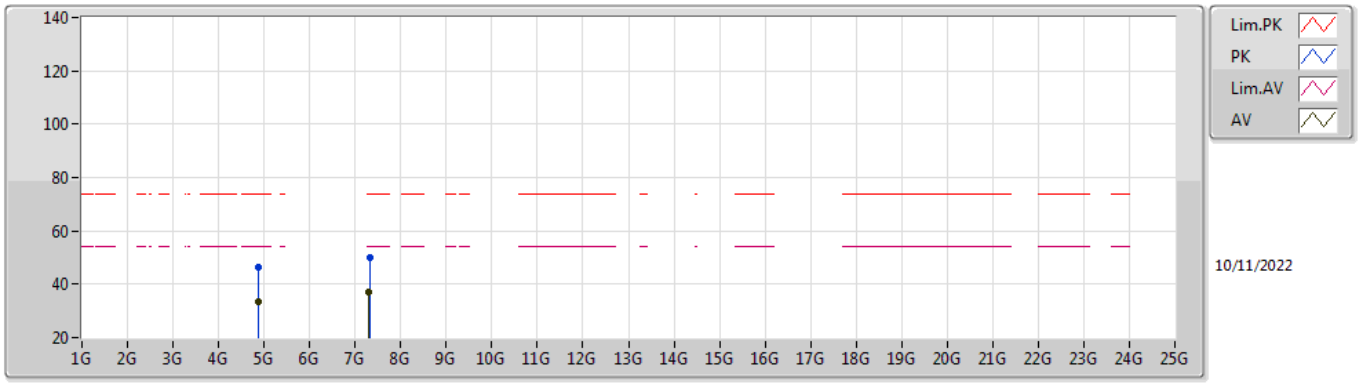


EUT X_2TX
Setting 16
02-F-R-5

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	4.87312G	46.17	74.00	-27.83	38.16	3	Vertical	353	2.07	-	33.15	5.64	30.78
AV	4.87102G	33.12	54.00	-20.88	25.12	3	Vertical	353	2.07	-	33.14	5.64	30.78
PK	7.30762G	49.97	74.00	-24.03	38.62	3	Vertical	89	1.46	-	36.42	6.85	31.92
AV	7.3148G	36.90	54.00	-17.10	25.55	3	Vertical	89	1.46	-	36.43	6.84	31.92

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

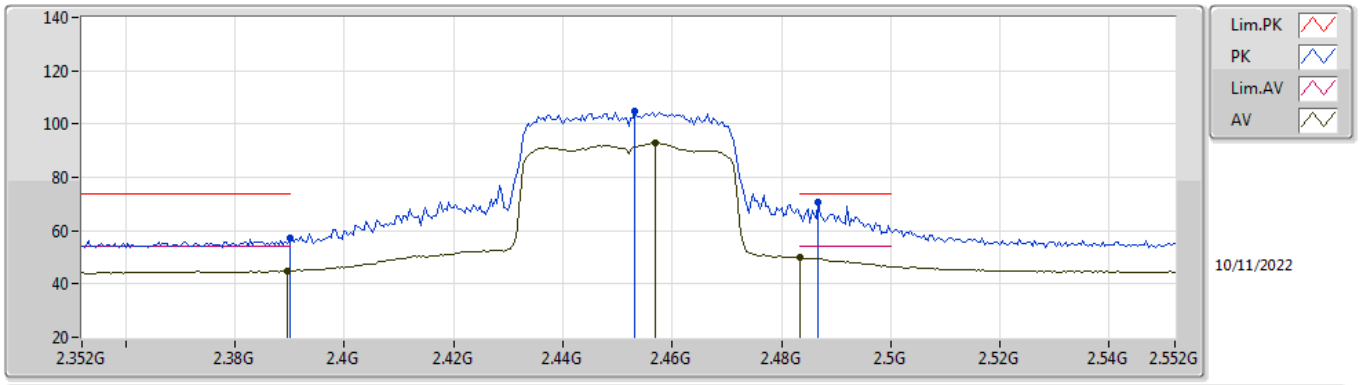


EUT X_2TX
Setting 16
02-F-R-5

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	4.87322G	46.18	74.00	-27.82	38.17	3	Horizontal	344	2.39	-	33.15	5.64	30.78
AV	4.87422G	33.20	54.00	-20.80	25.19	3	Horizontal	344	2.39	-	33.15	5.64	30.78
PK	7.31548G	49.93	74.00	-24.07	38.58	3	Horizontal	302	1.99	-	36.43	6.84	31.92
AV	7.31014G	36.95	54.00	-17.05	25.61	3	Horizontal	302	1.99	-	36.42	6.84	31.92

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

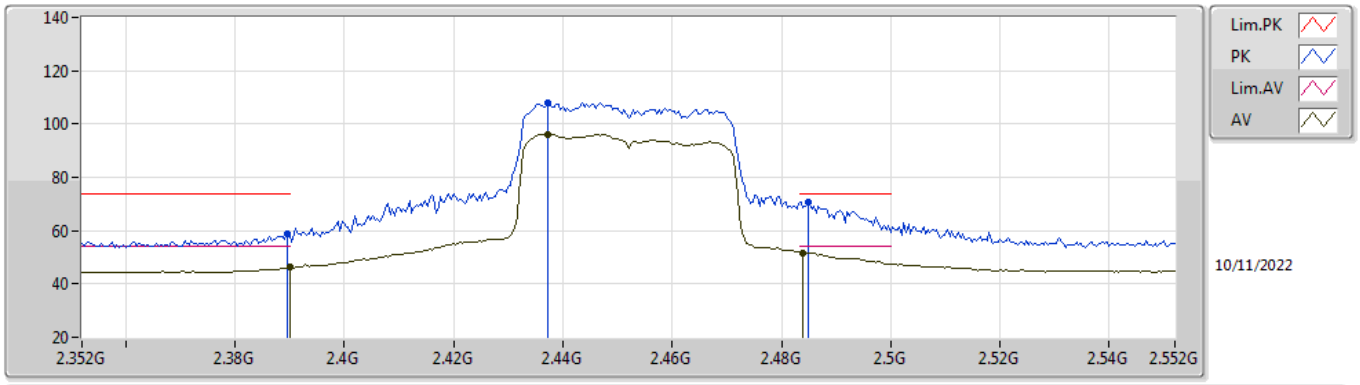


EUT Y_2TX
Setting 14
02-F-R-5

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	2.39G	56.99	74.00	-17.01	25.41	3	Vertical	200	2.24	-	28.38	3.20	-
AV	2.3896G	44.86	54.00	-9.14	13.29	3	Vertical	200	2.24	-	28.38	3.19	-
PK	2.4532G	104.61	Inf	-Inf	72.97	3	Vertical	200	2.24	-	28.41	3.23	-
AV	2.4568G	93.04	Inf	-Inf	61.38	3	Vertical	200	2.24	-	28.43	3.23	-
PK	2.4868G	70.70	74.00	-3.30	38.91	3	Vertical	200	2.24	-	28.55	3.24	-
AV	2.4835G	49.77	54.00	-4.23	18.00	3	Vertical	200	2.24	-	28.53	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

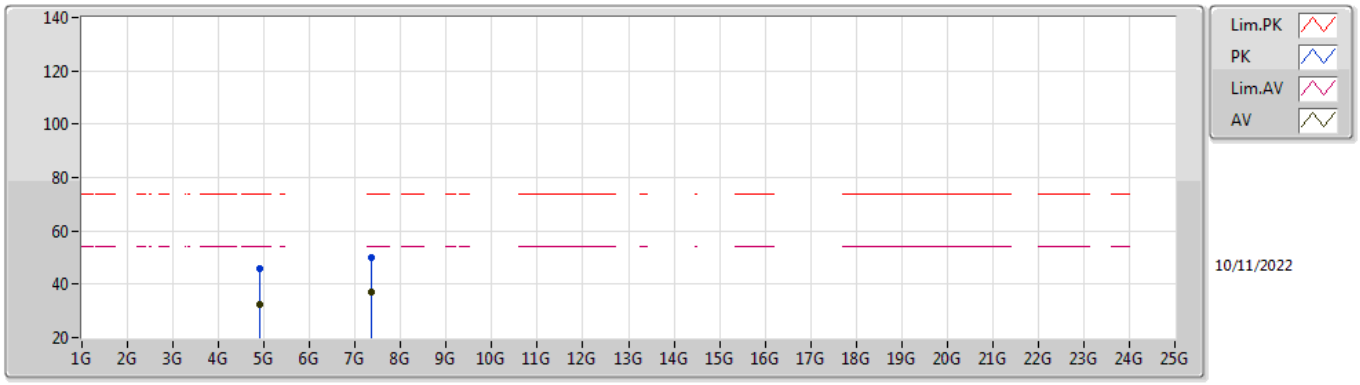


EUT Y_2TX
Setting 14
02-F-R-5

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	2.3896G	58.87	74.00	-15.13	27.30	3	Horizontal	216	2.19	-	28.38	3.19	-
AV	2.39G	46.23	54.00	-7.77	14.65	3	Horizontal	216	2.19	-	28.38	3.20	-
PK	2.4372G	108.07	Inf	-Inf	76.45	3	Horizontal	216	2.19	-	28.40	3.22	-
AV	2.4372G	96.06	Inf	-Inf	64.44	3	Horizontal	216	2.19	-	28.40	3.22	-
PK	2.4848G	70.80	74.00	-3.20	39.02	3	Horizontal	216	2.19	-	28.54	3.24	-
AV	2.484G	51.74	54.00	-2.26	19.96	3	Horizontal	216	2.19	-	28.54	3.24	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

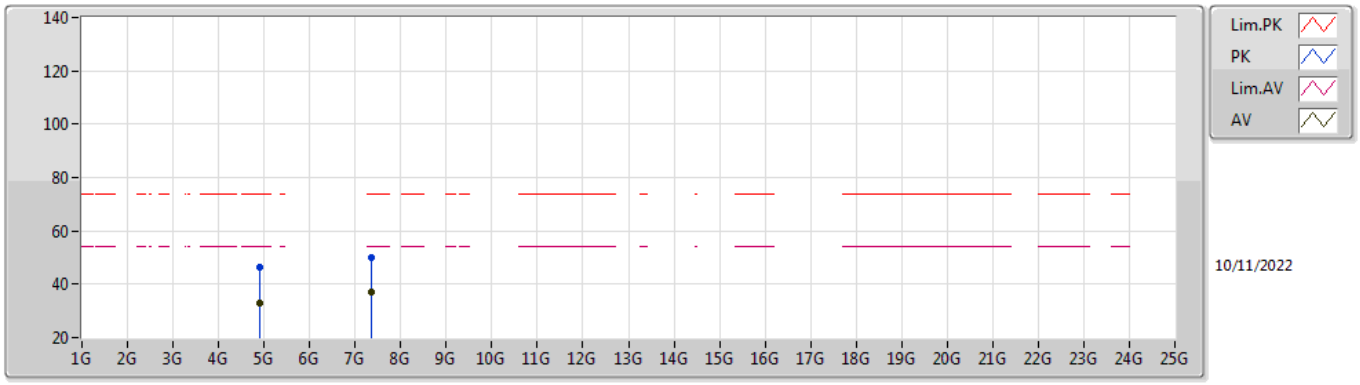


EUT X_2TX
Setting 14
02-F-R-5

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	4.90404G	45.73	74.00	-28.27	37.64	3	Vertical	26	2.94	-	33.21	5.65	30.77
AV	4.90512G	32.65	54.00	-21.35	24.56	3	Vertical	26	2.94	-	33.21	5.65	30.77
PK	7.35174G	50.13	74.00	-23.87	38.75	3	Vertical	84	2.62	-	36.50	6.82	31.94
AV	7.35358G	37.24	54.00	-16.76	25.87	3	Vertical	84	2.62	-	36.50	6.82	31.95

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT X_2TX
Setting 14
02-F-R-5

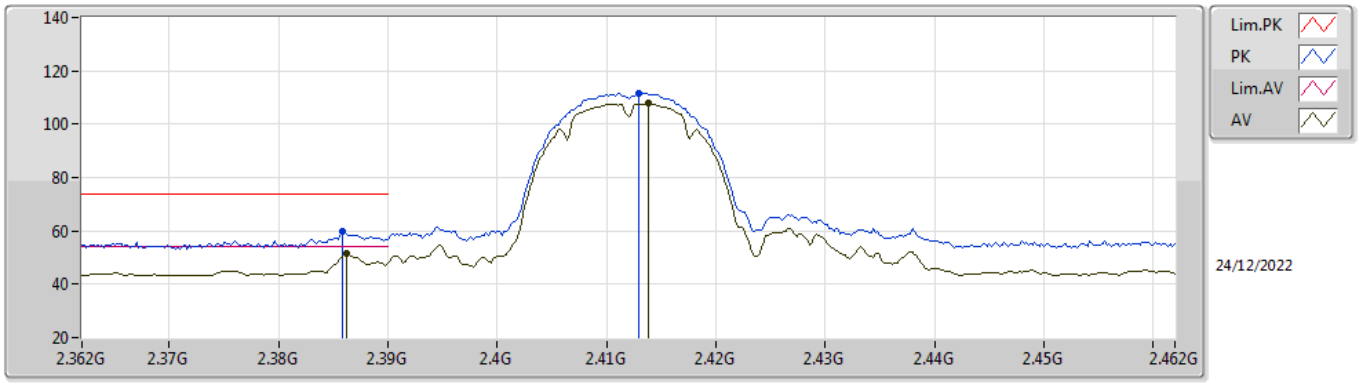
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.90082G	46.14	74.00	-27.86	38.06	3	Horizontal	82	1.51	-	33.20	5.65	30.77
AV	4.9064G	32.71	54.00	-21.29	24.62	3	Horizontal	82	1.51	-	33.21	5.65	30.77
PK	7.35722G	50.13	74.00	-23.87	38.76	3	Horizontal	60	1.83	-	36.50	6.82	31.95
AV	7.35368G	37.00	54.00	-17.00	25.63	3	Horizontal	60	1.83	-	36.50	6.82	31.95

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4856G	52.89	54.00	-1.11	3	Horizontal	59	1.79	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

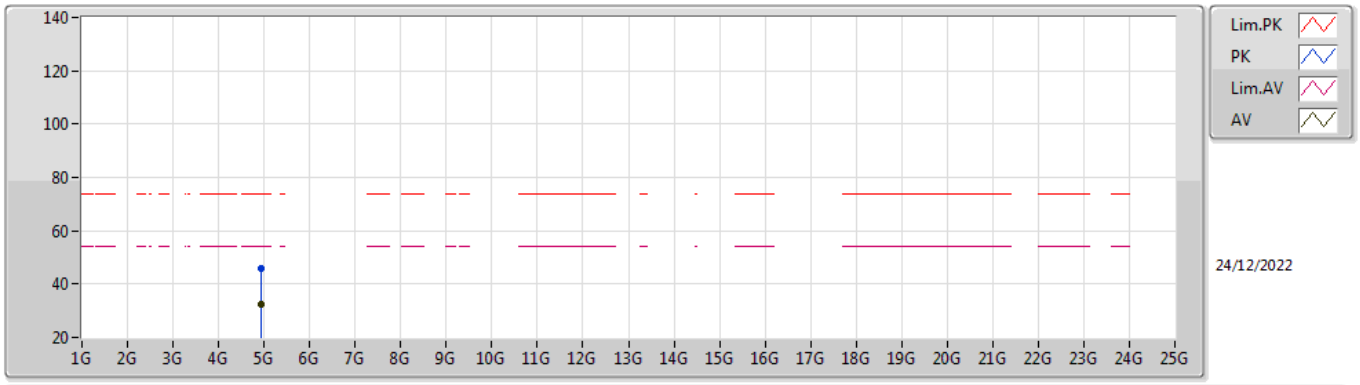


EUT Z_2TX
Setting 19
01-C-B-5

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	2.3858G	59.96	74.00	-14.04	28.60	3	Horizontal	13	1.86	-	27.77	3.59	-
AV	2.3862G	51.37	54.00	-2.63	20.01	3	Horizontal	13	1.86	-	27.77	3.59	-
PK	2.413G	111.71	Inf	-Inf	80.27	3	Horizontal	13	1.86	-	27.83	3.61	-
AV	2.4138G	107.75	Inf	-Inf	76.31	3	Horizontal	13	1.86	-	27.83	3.61	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

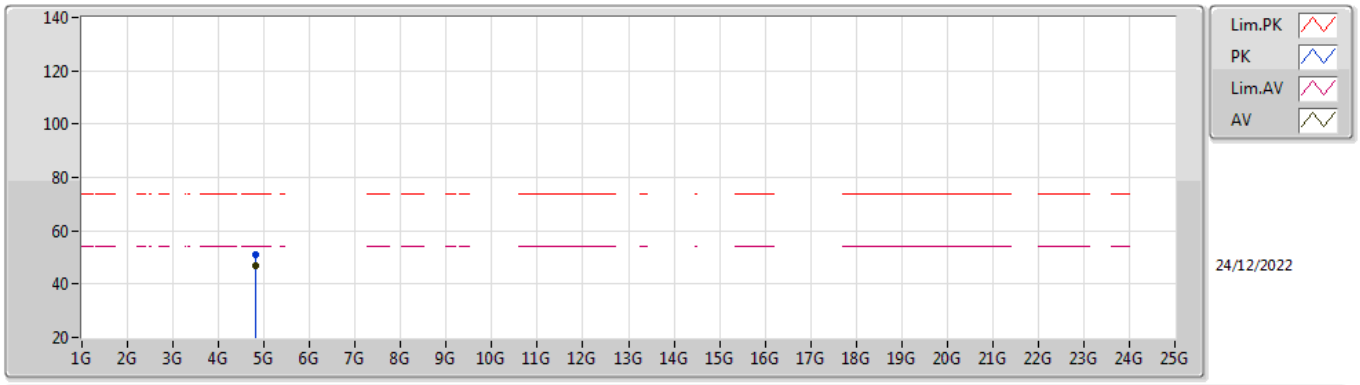


EUT Y_2TX
Setting 19
01-C-B-5

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	4.9255G	45.65	74.00	-28.35	39.68	3	Vertical	34	1.15	-	33.00	5.83	32.86
AV	4.924G	32.44	54.00	-21.56	26.49	3	Vertical	34	1.15	-	33.00	5.82	32.87

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

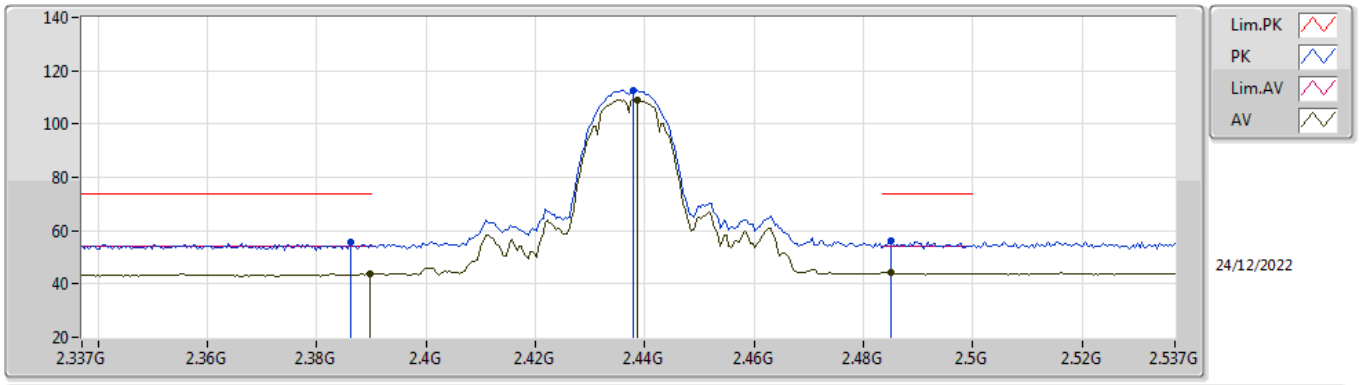


EUT Y_2TX
Setting 19
01-C-B-5

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	4.82402G	51.20	74.00	-22.80	46.33	3	Horizontal	3	2.38	-	32.84	4.92	32.89
AV	4.82398G	47.11	54.00	-6.89	42.24	3	Horizontal	3	2.38	-	32.84	4.92	32.89

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

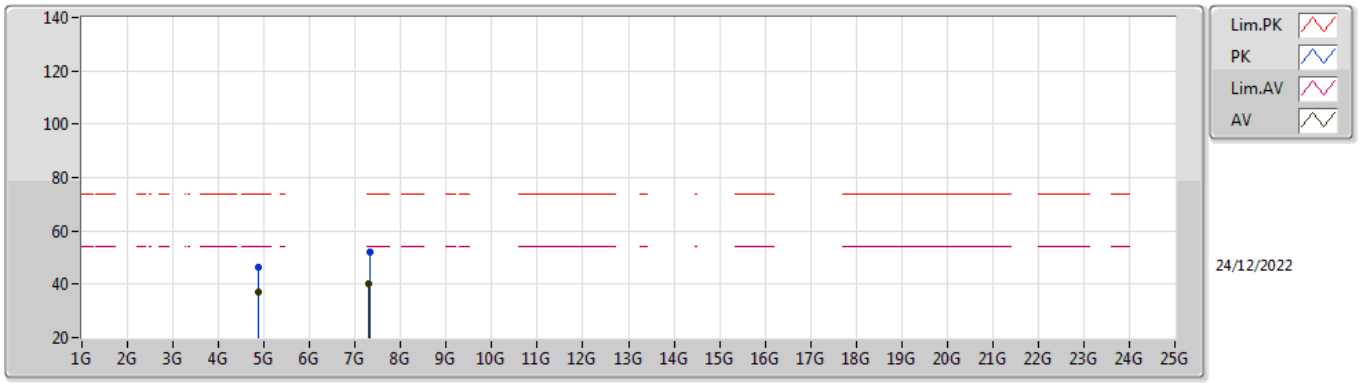


EUT Z_2TX
Setting 21
01-C-B-5

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	2.3862G	55.87	74.00	-18.13	24.51	3	Horizontal	341	2.26	-	27.77	3.59	-
AV	2.3898G	44.01	54.00	-9.99	12.64	3	Horizontal	341	2.26	-	27.78	3.59	-
PK	2.4378G	112.76	Inf	-Inf	81.26	3	Horizontal	341	2.26	-	27.88	3.62	-
AV	2.4386G	109.10	Inf	-Inf	77.60	3	Horizontal	341	2.26	-	27.88	3.62	-
PK	2.485G	56.22	74.00	-17.78	24.47	3	Horizontal	341	2.26	-	28.11	3.64	-
AV	2.485G	44.56	54.00	-9.44	12.81	3	Horizontal	341	2.26	-	28.11	3.64	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

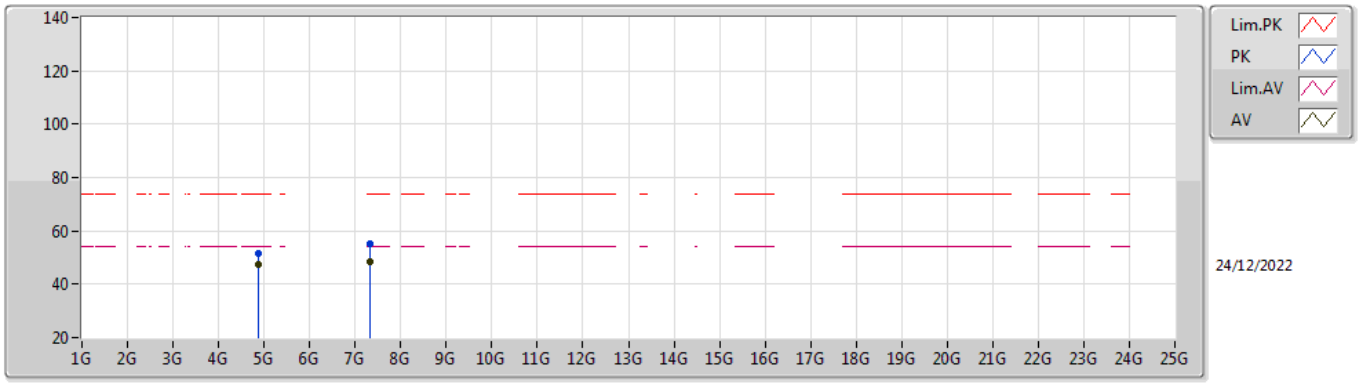


EUT Y_2TX
Setting 21
01-C-B-5

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	4.87379G	46.61	74.00	-27.39	40.72	3	Vertical	158	1.78	-	33.00	5.77	32.88
AV	4.87397G	37.06	54.00	-16.94	31.17	3	Vertical	158	1.78	-	33.00	5.77	32.88
PK	7.31175G	52.10	74.00	-21.90	40.52	3	Vertical	99	2.95	-	37.60	7.16	33.18
AV	7.31016G	40.02	54.00	-13.98	28.44	3	Vertical	99	2.95	-	37.60	7.16	33.18

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

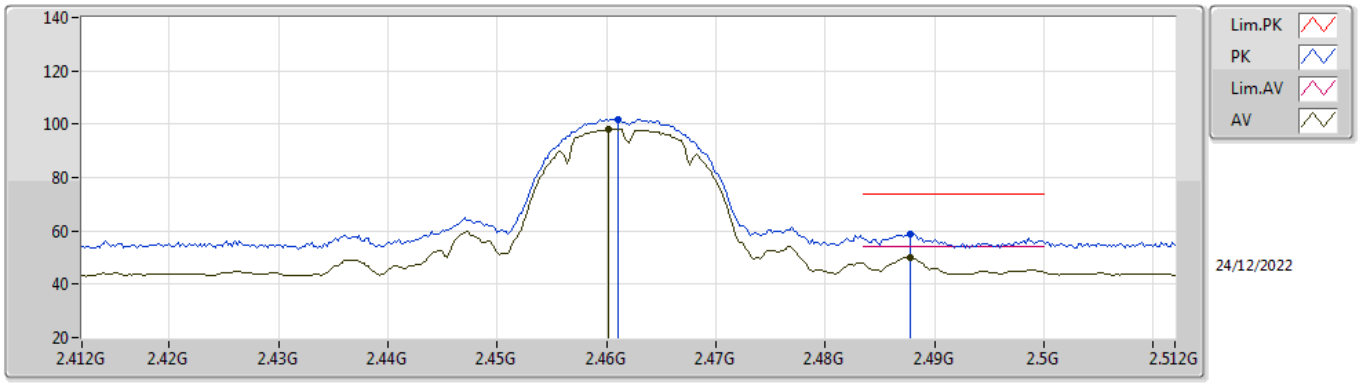


EUT Y_2TX
Setting 21
01-C-B-5

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	4.87394G	51.70	74.00	-22.30	46.61	3	Horizontal	174	2.28	-	33.00	4.97	32.88
AV	4.87397G	47.63	54.00	-6.37	42.54	3	Horizontal	174	2.28	-	33.00	4.97	32.88
PK	7.31052G	55.18	74.00	-18.82	44.66	3	Horizontal	3	2.00	-	37.60	6.10	33.18
AV	7.31022G	48.32	54.00	-5.68	37.80	3	Horizontal	3	2.00	-	37.60	6.10	33.18

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

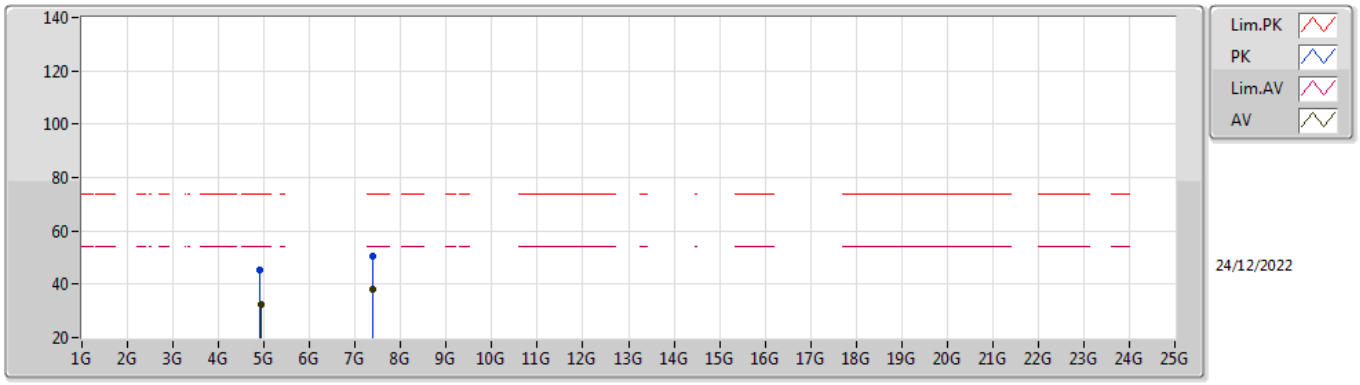


EUT Z_2TX
Setting 21
01-C-B-5

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	2.461G	101.94	Inf	-Inf	70.34	3	Horizontal	339	1.80	-	27.97	3.63	-
AV	2.4602G	98.19	Inf	-Inf	66.60	3	Horizontal	339	1.80	-	27.96	3.63	-
PK	2.4878G	58.77	74.00	-15.23	27.00	3	Horizontal	339	1.80	-	28.13	3.64	-
AV	2.4878G	50.12	54.00	-3.88	18.35	3	Horizontal	339	1.80	-	28.13	3.64	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

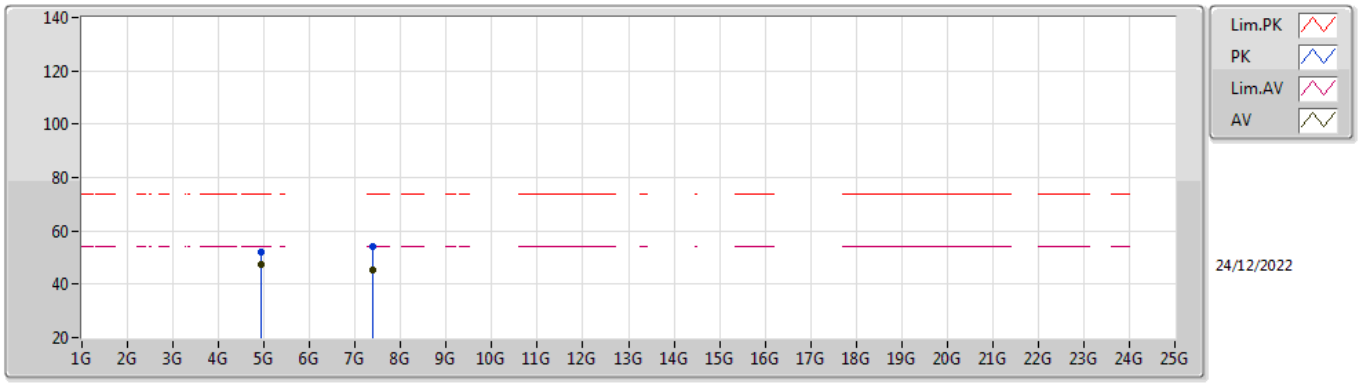


EUT Y_2TX
Setting 21
01-C-B-5

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	4.91728G	45.41	74.00	-28.59	39.46	3	Vertical	67	2.45	-	33.00	5.82	32.87
AV	4.924G	32.65	54.00	-21.35	26.70	3	Vertical	67	2.45	-	33.00	5.82	32.87
PK	7.3785G	50.43	74.00	-23.57	38.92	3	Vertical	104	1.78	-	37.54	7.19	33.22
AV	7.38699G	37.92	54.00	-16.08	26.42	3	Vertical	104	1.78	-	37.53	7.19	33.22

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

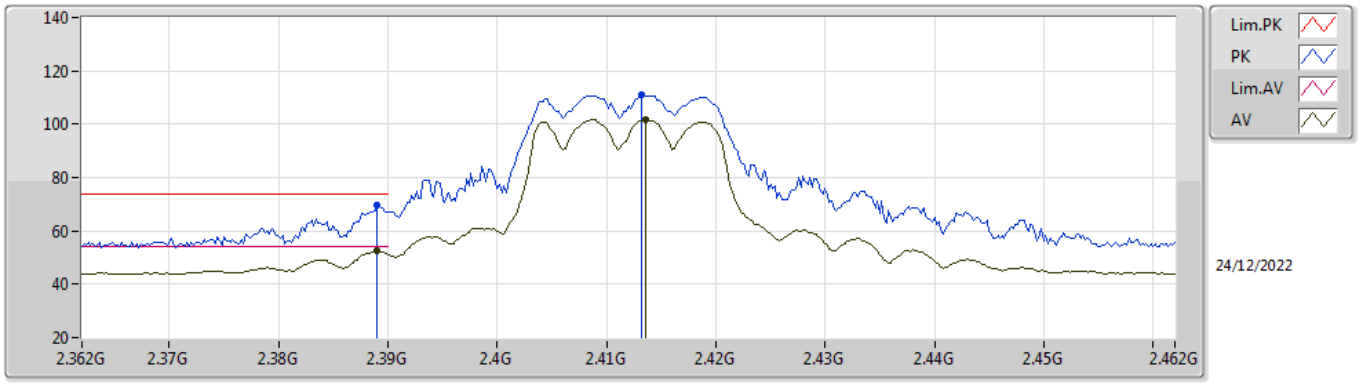


EUT Y_2TX
Setting 21
01-C-B-5

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	4.924G	51.98	74.00	-22.02	46.83	3	Horizontal	175	2.37	-	33.00	5.02	32.87
AV	4.92397G	47.49	54.00	-6.51	42.34	3	Horizontal	175	2.37	-	33.00	5.02	32.87
PK	7.38694G	53.95	74.00	-20.05	43.54	3	Horizontal	9	1.95	-	37.53	6.10	33.22
AV	7.3867G	45.50	54.00	-8.50	35.09	3	Horizontal	9	1.95	-	37.53	6.10	33.22

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

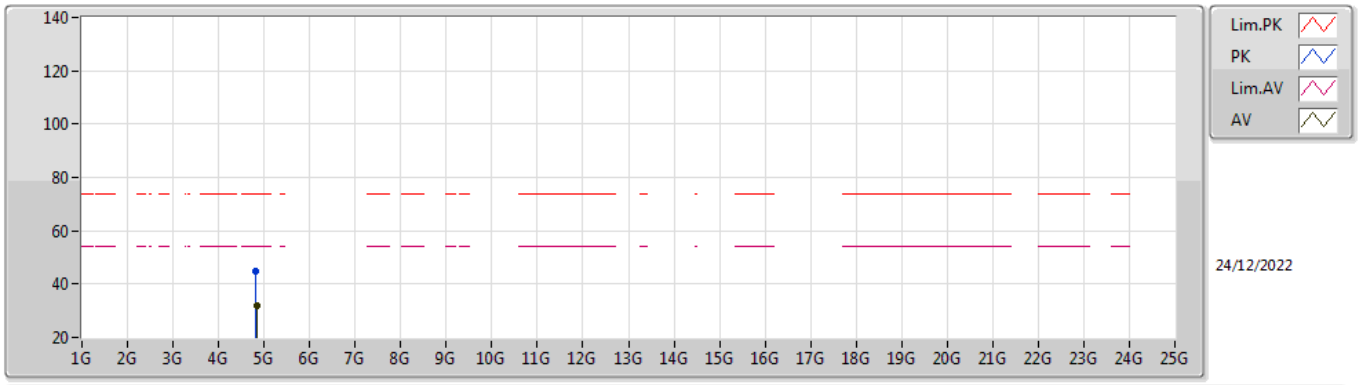


EUT Z_2TX
Setting 17
01-C-B-5

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	2.389G	69.70	74.00	-4.30	38.33	3	Horizontal	349	2.30	-	27.78	3.59	-
AV	2.389G	52.36	54.00	-1.64	20.99	3	Horizontal	349	2.30	-	27.78	3.59	-
PK	2.4132G	110.79	Inf	-Inf	79.35	3	Horizontal	349	2.30	-	27.83	3.61	-
AV	2.4136G	101.70	Inf	-Inf	70.26	3	Horizontal	349	2.30	-	27.83	3.61	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

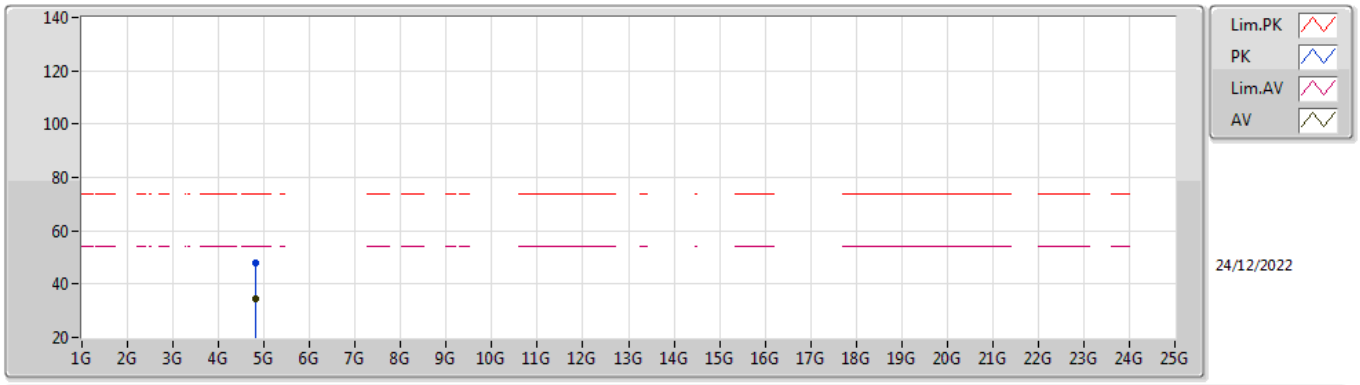


EUT Y_2TX
Setting 17
01-C-B-5

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	4.82175G	44.97	74.00	-29.03	39.31	3	Vertical	10	2.96	-	32.83	5.72	32.89
AV	4.83108G	32.09	54.00	-21.91	26.35	3	Vertical	10	2.96	-	32.89	5.73	32.88

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

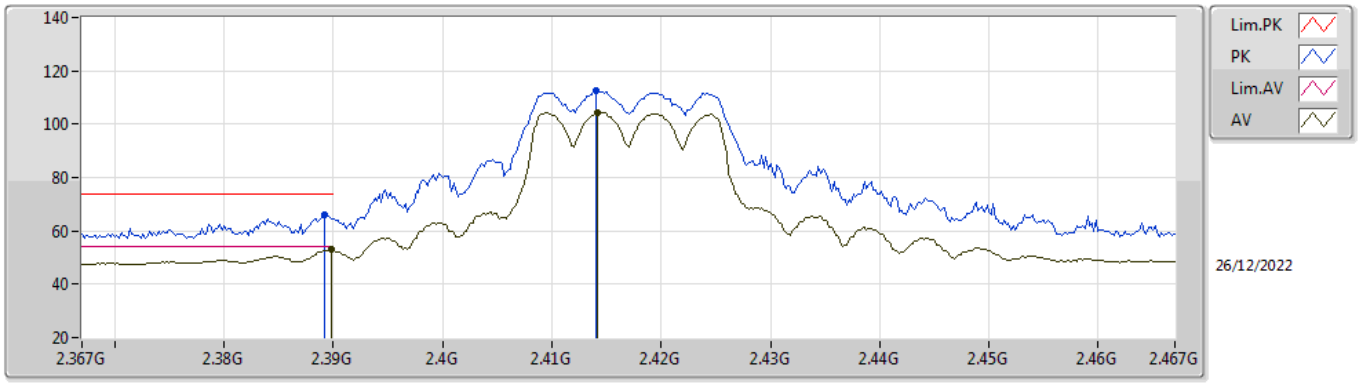


EUT Y_2TX
Setting 17
01-C-B-5

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	4.82628G	47.73	74.00	-26.27	42.02	3	Horizontal	172	1.77	-	32.86	5.73	32.88
AV	4.82751G	34.32	54.00	-19.68	28.60	3	Horizontal	172	1.77	-	32.87	5.73	32.88

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

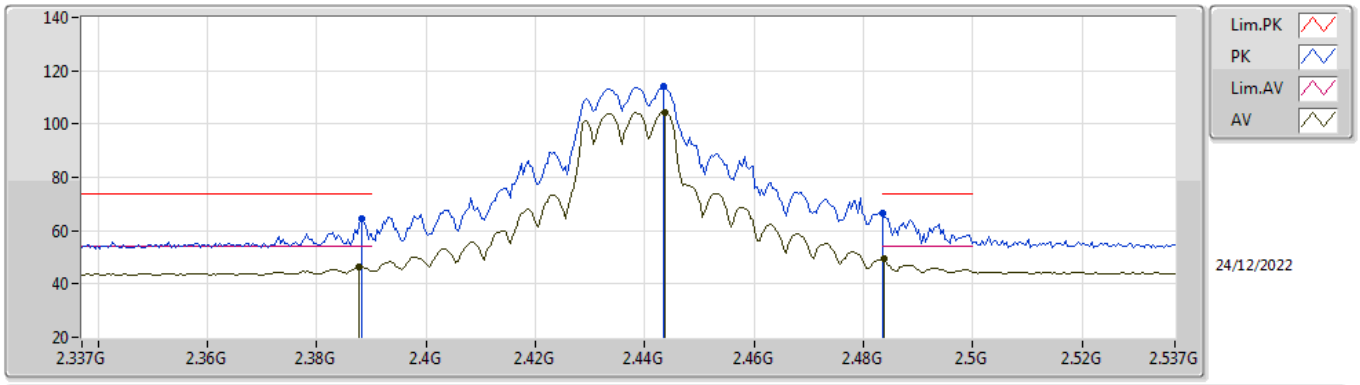


EUT Z_2TX
Setting 18
03-K-R-6

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	2.3892G	66.15	74.00	-7.85	33.90	3	Horizontal	166	2.00	-	28.26	3.99	-
AV	2.3898G	52.87	54.00	-1.13	20.62	3	Horizontal	166	2.00	-	28.26	3.99	-
PK	2.414G	112.55	Inf	-Inf	80.24	3	Horizontal	166	2.00	-	28.30	4.01	-
AV	2.4142G	104.29	Inf	-Inf	71.98	3	Horizontal	166	2.00	-	28.30	4.01	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

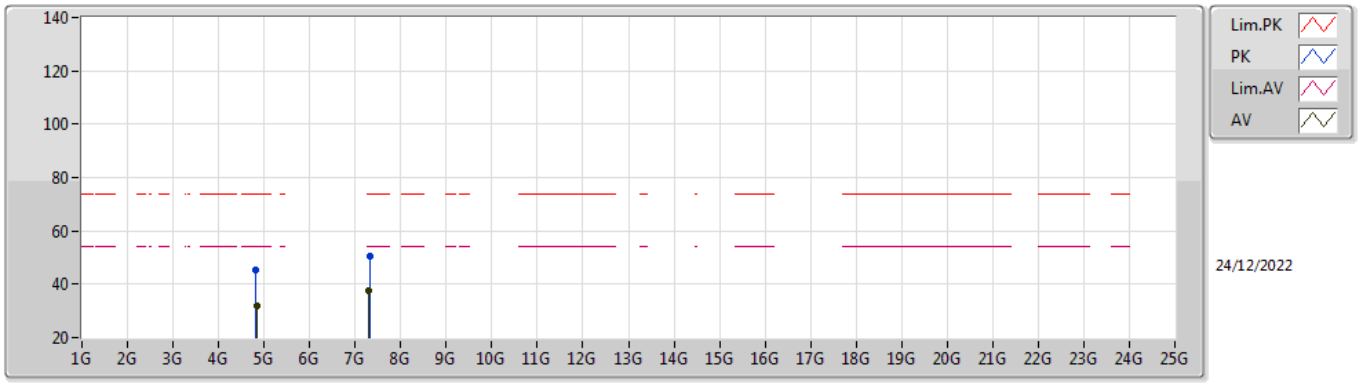


EUT Z_2TX
Setting 20
01-C-B-5

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	2.3882G	64.48	74.00	-9.52	33.11	3	Horizontal	354	3.00	-	27.78	3.59	-
AV	2.3878G	46.29	54.00	-7.71	14.92	3	Horizontal	354	3.00	-	27.78	3.59	-
PK	2.4434G	114.07	Inf	-Inf	82.56	3	Horizontal	354	3.00	-	27.89	3.62	-
AV	2.4438G	104.33	Inf	-Inf	72.82	3	Horizontal	354	3.00	-	27.89	3.62	-
PK	2.4835G	66.54	74.00	-7.46	34.80	3	Horizontal	354	3.00	-	28.10	3.64	-
AV	2.4838G	49.27	54.00	-4.73	17.53	3	Horizontal	354	3.00	-	28.10	3.64	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

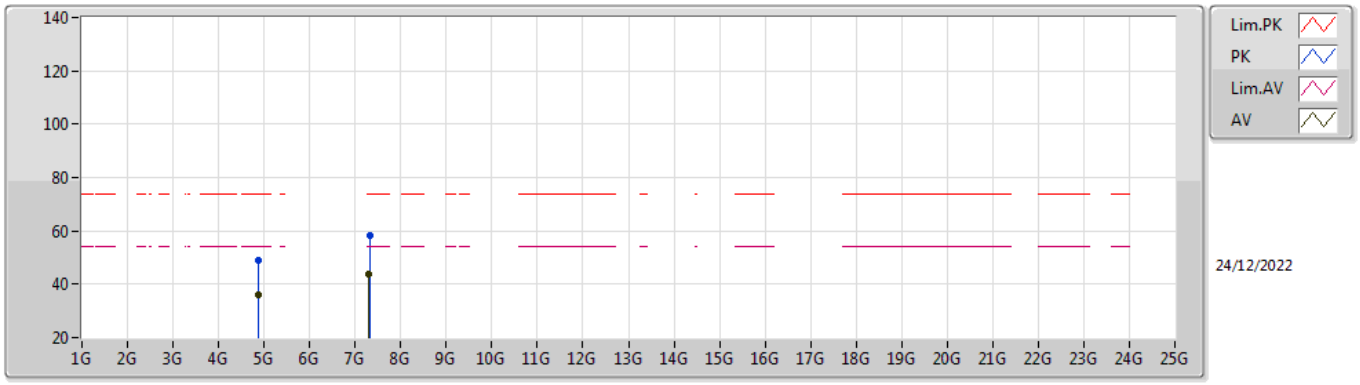


EUT Y_2TX
Setting 20
01-C-B-5

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	4.82244G	45.23	74.00	-28.77	39.57	3	Vertical	123	2.92	-	32.83	5.72	32.89
AV	4.82862G	32.00	54.00	-22.00	26.28	3	Vertical	123	2.92	-	32.87	5.73	32.88
PK	7.31496G	50.54	74.00	-23.46	38.96	3	Vertical	350	1.23	-	37.60	7.16	33.18
AV	7.3044G	37.59	54.00	-16.41	26.02	3	Vertical	350	1.23	-	37.60	7.15	33.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

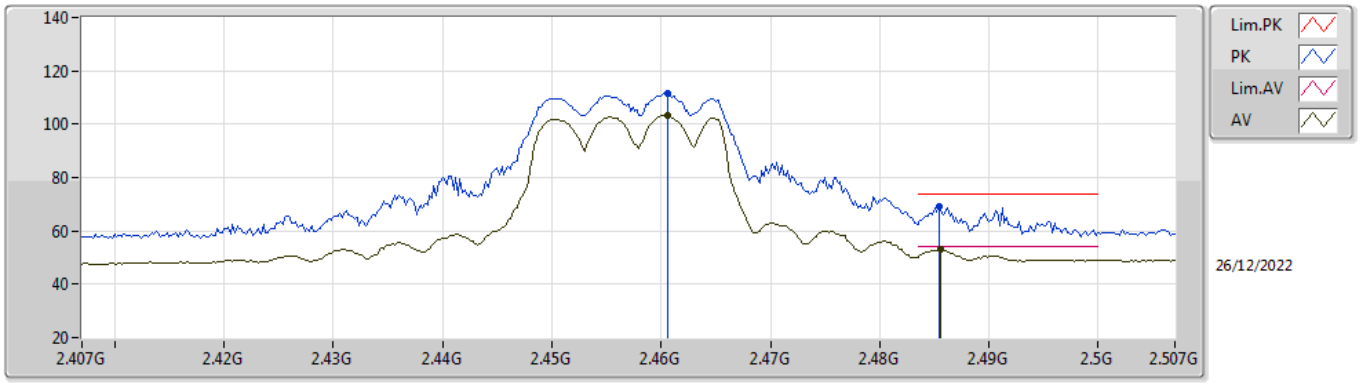


EUT Y_2TX
Setting 20
01-C-B-5

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	4.87586G	49.18	74.00	-24.82	43.27	3	Horizontal	174	2.43	-	33.00	5.78	32.87
AV	4.87268G	35.98	54.00	-18.02	30.09	3	Horizontal	174	2.43	-	33.00	5.77	32.88
PK	7.31232G	58.52	74.00	-15.48	46.94	3	Horizontal	6	2.00	-	37.60	7.16	33.18
AV	7.30656G	43.97	54.00	-10.03	32.40	3	Horizontal	6	2.00	-	37.60	7.15	33.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

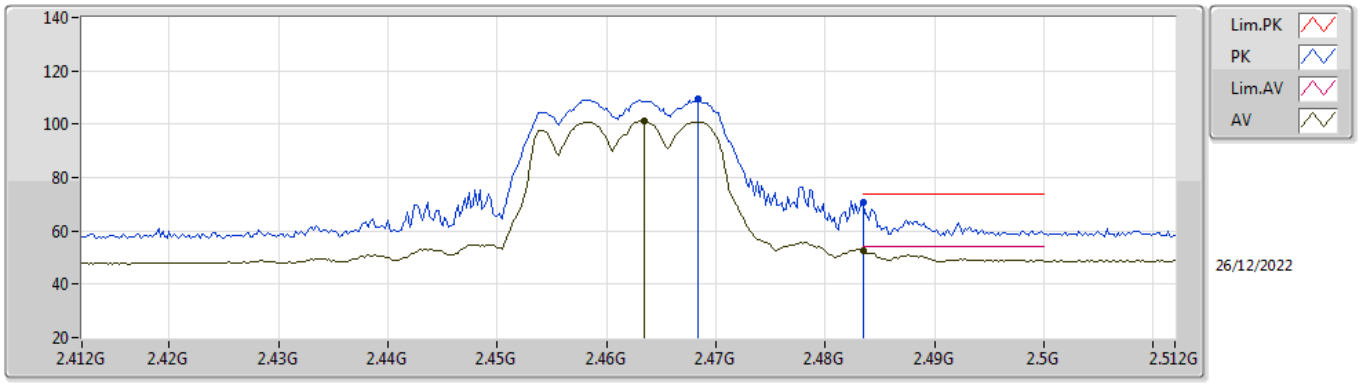


EUT Z_2TX
Setting 17.5
03-K-R-6

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	2.4606G	111.72	Inf	-Inf	79.32	3	Horizontal	59	1.79	-	28.34	4.06	-
AV	2.4606G	103.06	Inf	-Inf	70.66	3	Horizontal	59	1.79	-	28.34	4.06	-
PK	2.4854G	69.20	74.00	-4.80	36.67	3	Horizontal	59	1.79	-	28.44	4.09	-
AV	2.4856G	52.89	54.00	-1.11	20.36	3	Horizontal	59	1.79	-	28.44	4.09	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

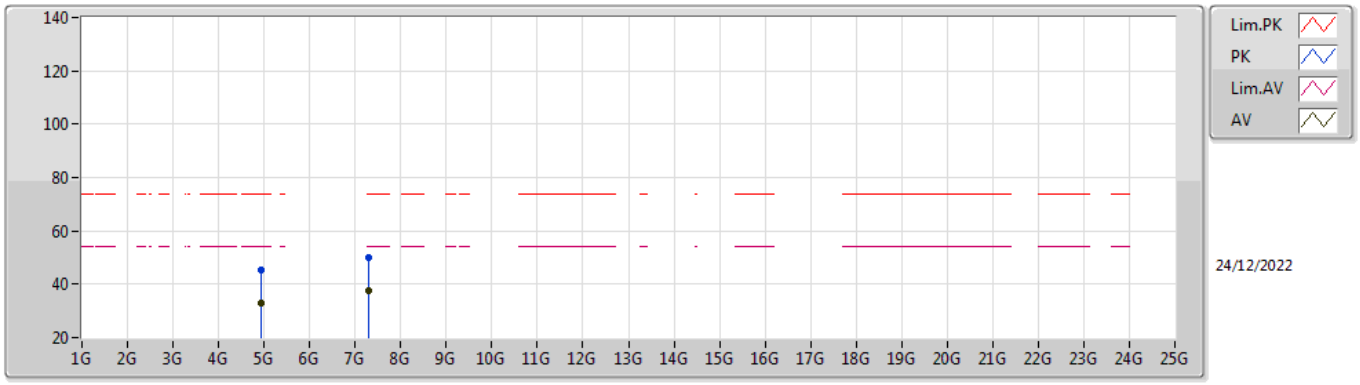


EUT Z_2TX
Setting 15.5
03-K-R-6

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	2.4684G	109.35	Inf	-Inf	76.91	3	Horizontal	59	1.80	-	28.37	4.07	-
AV	2.4634G	101.24	Inf	-Inf	68.83	3	Horizontal	59	1.80	-	28.35	4.06	-
PK	2.4835G	70.44	74.00	-3.56	37.93	3	Horizontal	59	1.80	-	28.43	4.08	-
AV	2.4835G	52.56	54.00	-1.44	20.05	3	Horizontal	59	1.80	-	28.43	4.08	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

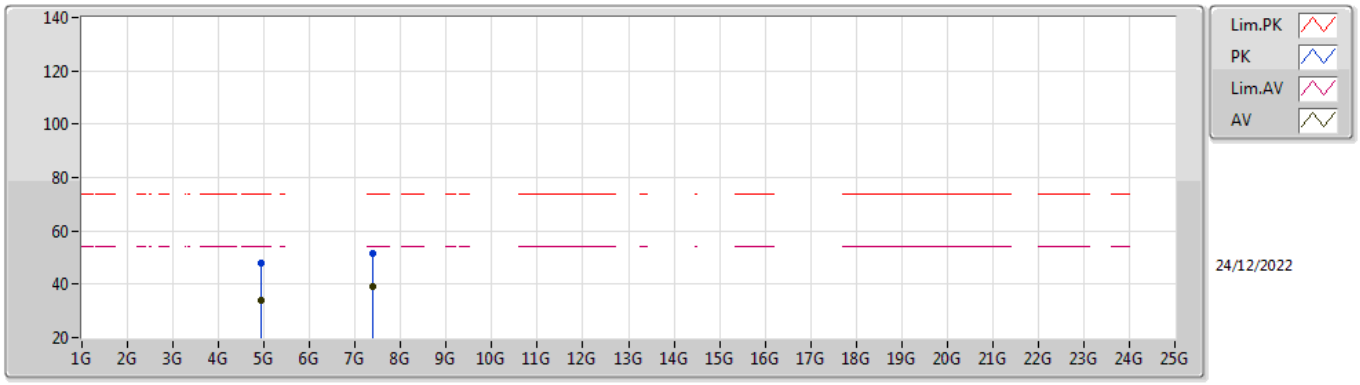


EUT Y_2TX
Setting 16
01-C-B-5

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	4.92445G	45.11	74.00	-28.89	39.16	3	Vertical	167	1.38	-	33.00	5.82	32.87
AV	4.92382G	32.74	54.00	-21.26	26.79	3	Vertical	167	1.38	-	33.00	5.82	32.87
PK	7.31001G	49.99	74.00	-24.01	38.41	3	Vertical	273	1.44	-	37.60	7.16	33.18
AV	7.30635G	37.33	54.00	-16.67	25.76	3	Vertical	273	1.44	-	37.60	7.15	33.18

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

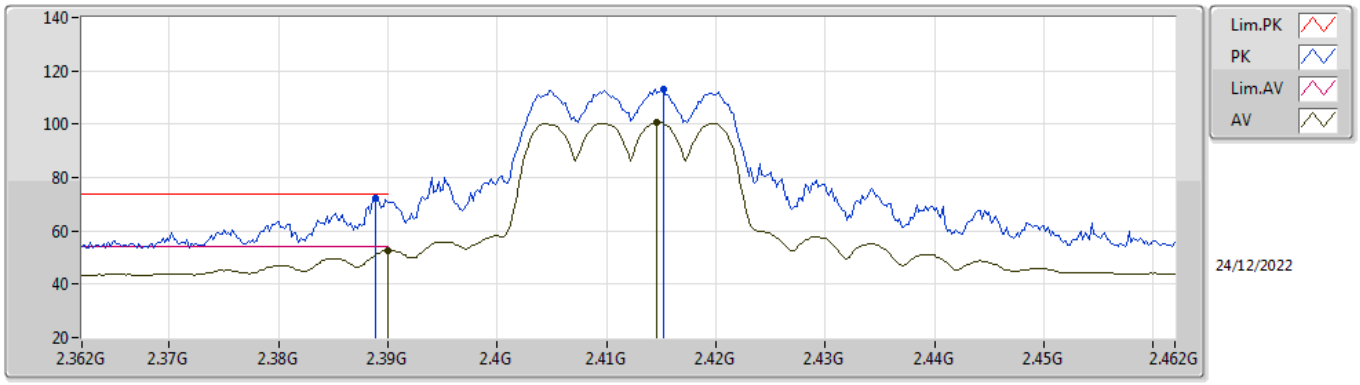


EUT Y_2TX
Setting 16
01-C-B-5

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	4.92613G	48.05	74.00	-25.95	42.08	3	Horizontal	360	2.92	-	33.00	5.83	32.86
AV	4.92694G	33.96	54.00	-20.04	27.99	3	Horizontal	360	2.92	-	33.00	5.83	32.86
PK	7.39059G	51.65	74.00	-22.35	40.15	3	Horizontal	292	1.60	-	37.52	7.20	33.22
AV	7.38168G	39.20	54.00	-14.80	27.69	3	Horizontal	292	1.60	-	37.54	7.19	33.22

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

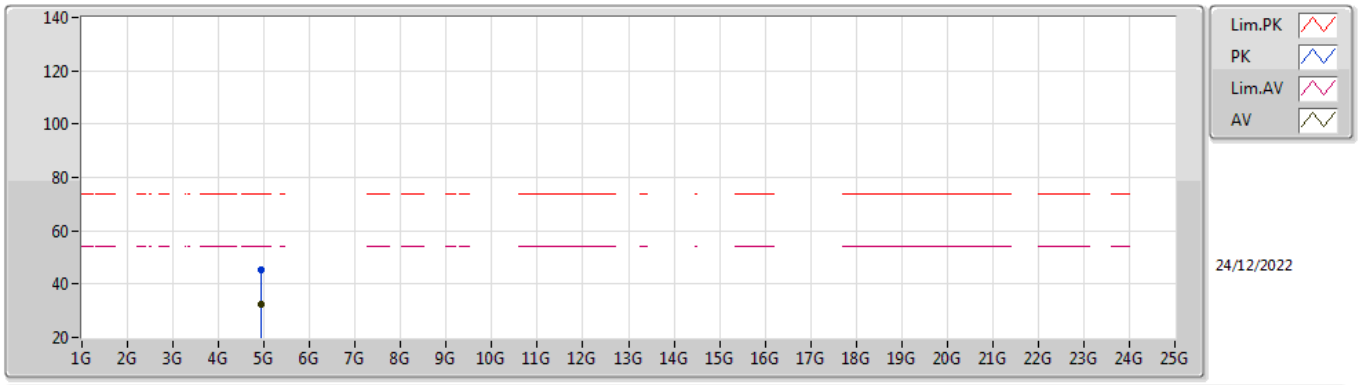


EUT Z_2TX
Setting 16
01-C-B-5

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	2.3888G	72.05	74.00	-1.95	40.68	3	Horizontal	11	1.85	-	27.78	3.59	-
AV	2.39G	52.80	54.00	-1.20	21.43	3	Horizontal	11	1.85	-	27.78	3.59	-
PK	2.4152G	113.32	Inf	-Inf	81.88	3	Horizontal	11	1.85	-	27.83	3.61	-
AV	2.4146G	100.85	Inf	-Inf	69.41	3	Horizontal	11	1.85	-	27.83	3.61	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

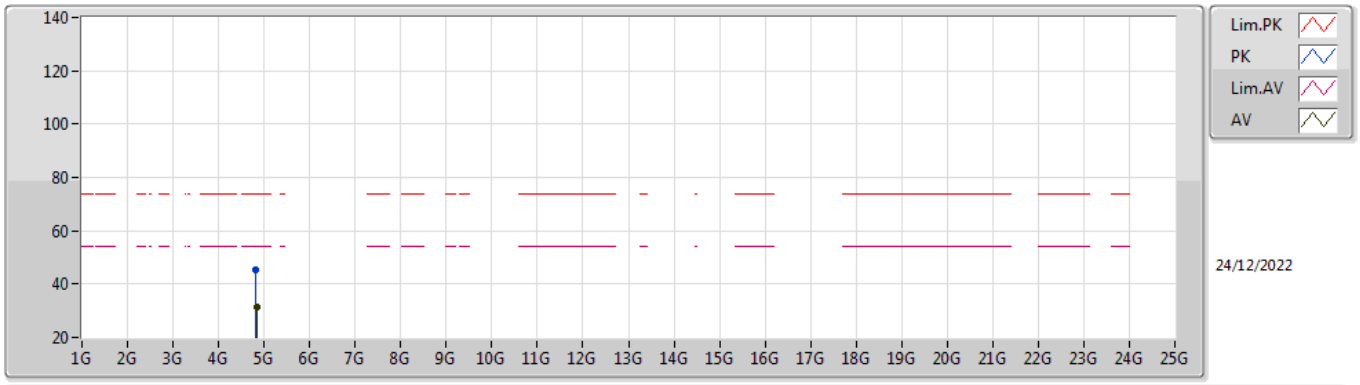


EUT Y_2TX
Setting 16
01-C-B-5

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	4.92376G	45.29	74.00	-28.71	39.34	3	Vertical	123	1.93	-	33.00	5.82	32.87
AV	4.92397G	32.57	54.00	-21.43	26.62	3	Vertical	123	1.93	-	33.00	5.82	32.87

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

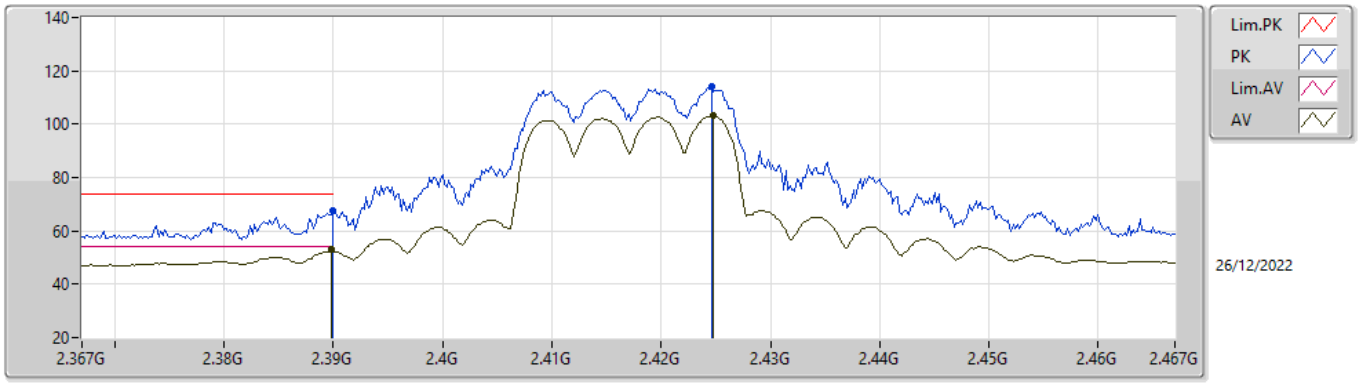


EUT Y_2TX
Setting 16
01-C-B-5

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	4.82751G	45.35	74.00	-28.65	39.63	3	Horizontal	126	2.41	-	32.87	5.73	32.88
AV	4.83042G	31.61	54.00	-22.39	25.88	3	Horizontal	126	2.41	-	32.88	5.73	32.88

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2417MHz_TX

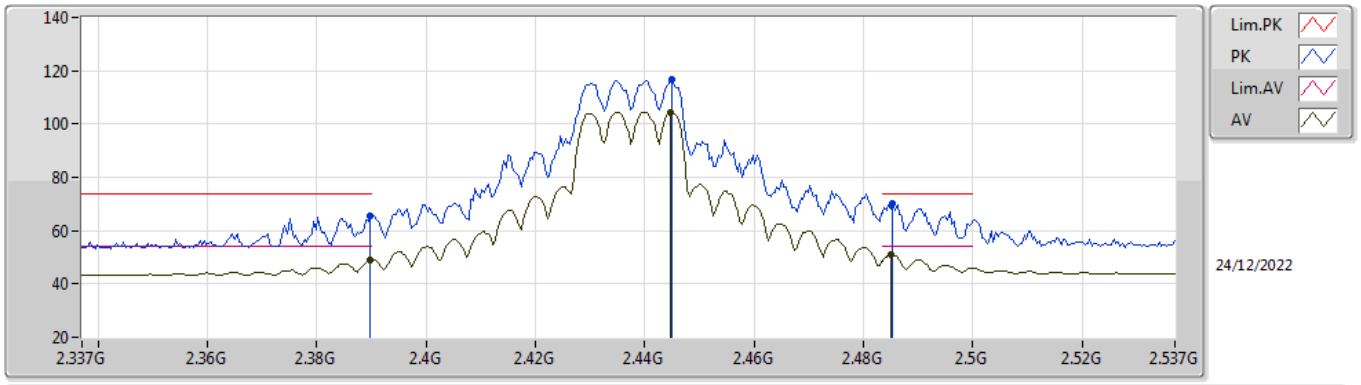


EUT Z_2TX
Setting 17
03-K-R-6

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	2.39G	67.78	74.00	-6.22	35.53	3	Horizontal	167	3.00	-	28.26	3.99	-
AV	2.3898G	52.85	54.00	-1.15	20.60	3	Horizontal	167	3.00	-	28.26	3.99	-
PK	2.4246G	114.39	Inf	-Inf	82.07	3	Horizontal	167	3.00	-	28.30	4.02	-
AV	2.4248G	103.34	Inf	-Inf	71.02	3	Horizontal	167	3.00	-	28.30	4.02	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

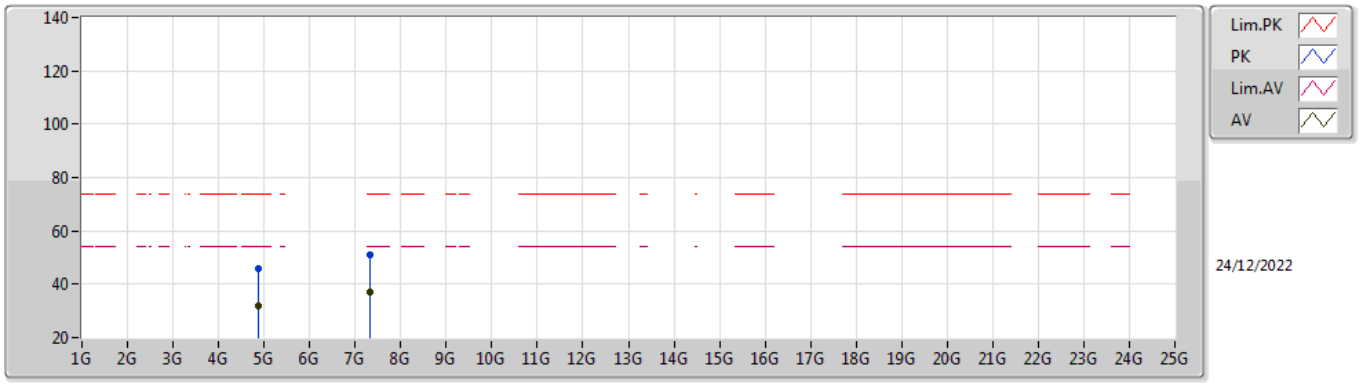


EUT Z_2TX
Setting 20
01-C-B-5

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	2.3898G	65.58	74.00	-8.42	34.21	3	Horizontal	7	1.80	-	27.78	3.59	-
AV	2.3898G	49.19	54.00	-4.81	17.82	3	Horizontal	7	1.80	-	27.78	3.59	-
PK	2.445G	116.82	Inf	-Inf	85.31	3	Horizontal	7	1.80	-	27.89	3.62	-
AV	2.4446G	104.42	Inf	-Inf	72.91	3	Horizontal	7	1.80	-	27.89	3.62	-
PK	2.4854G	70.13	74.00	-3.87	38.38	3	Horizontal	7	1.80	-	28.11	3.64	-
AV	2.485G	50.99	54.00	-3.01	19.24	3	Horizontal	7	1.80	-	28.11	3.64	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

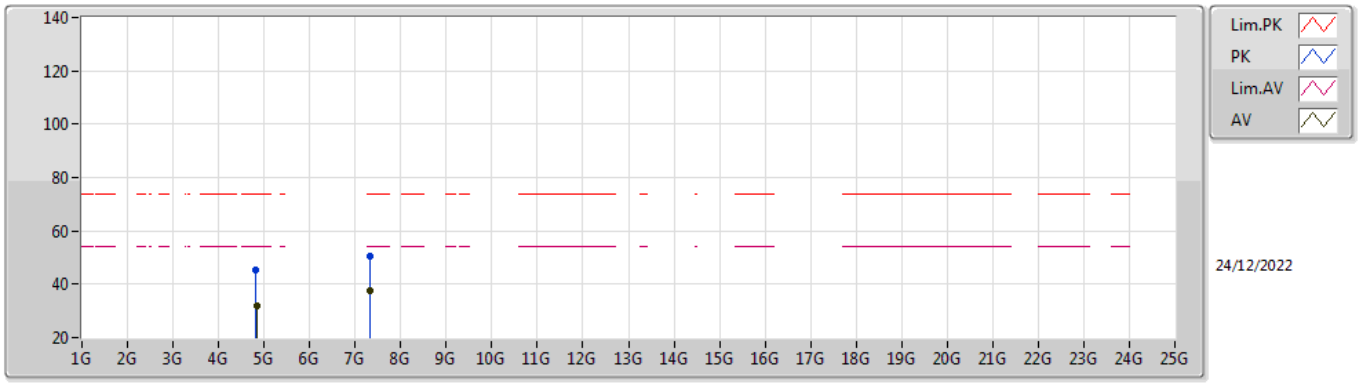


EUT Y_2TX
Setting 20
01-C-B-5

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	4.8797G	45.73	74.00	-28.27	39.82	3	Vertical	53	2.32	-	33.00	5.78	32.87
AV	4.87502G	31.92	54.00	-22.08	26.01	3	Vertical	53	2.32	-	33.00	5.78	32.87
PK	7.31592G	50.92	74.00	-23.08	39.34	3	Vertical	174	1.84	-	37.60	7.16	33.18
AV	7.31337G	37.12	54.00	-16.88	25.54	3	Vertical	174	1.84	-	37.60	7.16	33.18

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

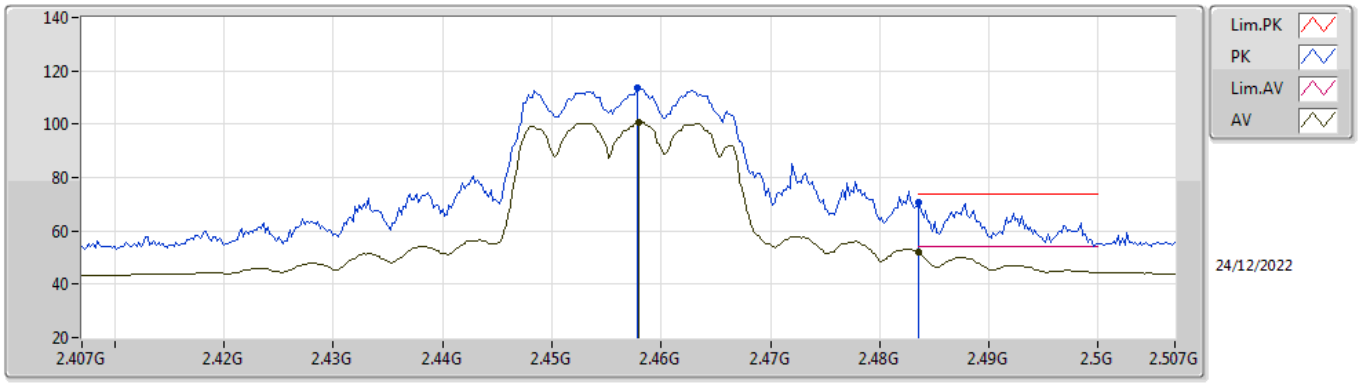


EUT Y_2TX
Setting 20
01-C-B-5

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	4.82301G	45.40	74.00	-28.60	39.73	3	Horizontal	254	2.51	-	32.84	5.72	32.89
AV	4.82934G	31.68	54.00	-22.32	25.95	3	Horizontal	254	2.51	-	32.88	5.73	32.88
PK	7.31118G	50.60	74.00	-23.40	39.02	3	Horizontal	86	2.96	-	37.60	7.16	33.18
AV	7.3134G	37.55	54.00	-16.45	25.97	3	Horizontal	86	2.96	-	37.60	7.16	33.18

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2457MHz_TX

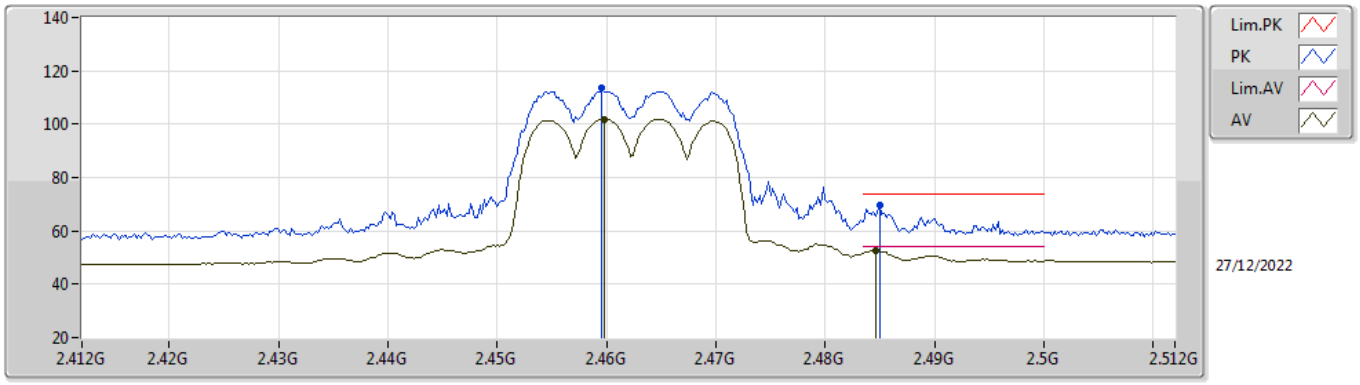


EUT Z_2TX
Setting 18
01-C-B-5

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	2.4578G	113.59	Inf	-Inf	82.01	3	Horizontal	360	3.00	-	27.95	3.63	-
AV	2.458G	100.74	Inf	-Inf	69.16	3	Horizontal	360	3.00	-	27.95	3.63	-
PK	2.4836G	70.86	74.00	-3.14	39.12	3	Horizontal	360	3.00	-	28.10	3.64	-
AV	2.4835G	51.83	54.00	-2.17	20.09	3	Horizontal	360	3.00	-	28.10	3.64	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

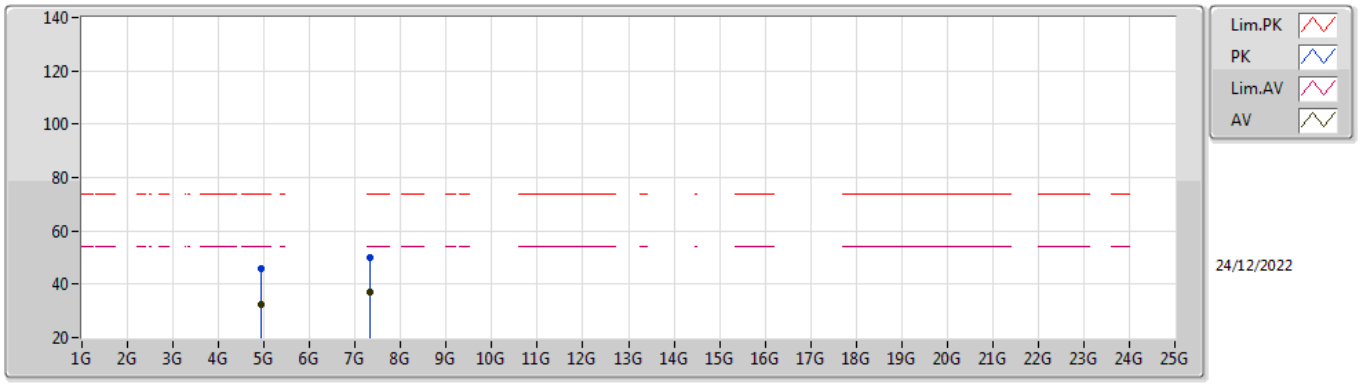


EUT Z_2TX
Setting 14
03-K-R-6

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	2.4596G	113.46	Inf	-Inf	81.06	3	Horizontal	175	2.15	-	28.34	4.06	-
AV	2.4598G	101.89	Inf	-Inf	69.49	3	Horizontal	175	2.15	-	28.34	4.06	-
PK	2.485G	69.90	74.00	-4.10	37.38	3	Horizontal	175	2.15	-	28.44	4.08	-
AV	2.4846G	52.73	54.00	-1.27	20.21	3	Horizontal	175	2.15	-	28.44	4.08	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

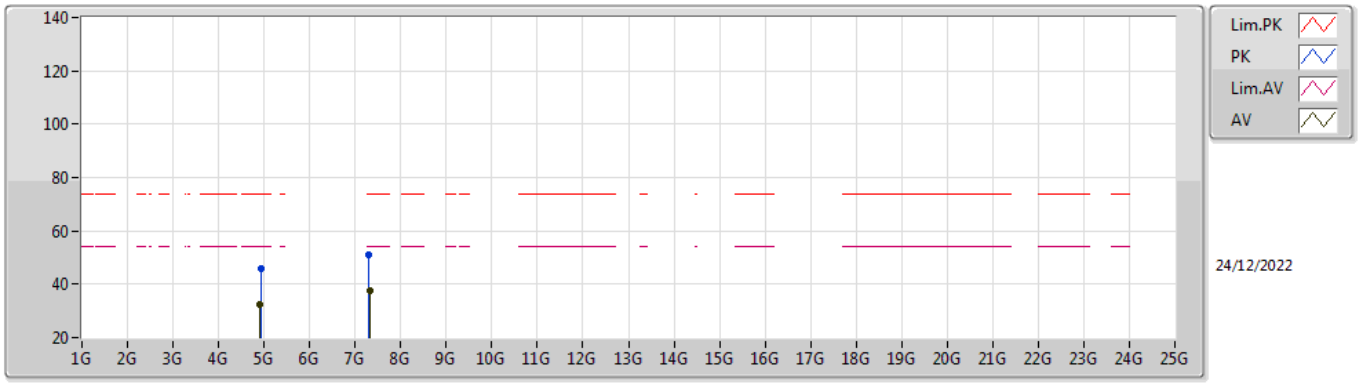


EUT Y_2TX
Setting 15
01-C-B-5

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	4.93057G	45.62	74.00	-28.38	39.65	3	Vertical	104	1.94	-	33.00	5.83	32.86
AV	4.92409G	32.56	54.00	-21.44	26.61	3	Vertical	104	1.94	-	33.00	5.82	32.87
PK	7.31472G	49.93	74.00	-24.07	38.35	3	Vertical	76	2.31	-	37.60	7.16	33.18
AV	7.31028G	36.97	54.00	-17.03	25.39	3	Vertical	76	2.31	-	37.60	7.16	33.18

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

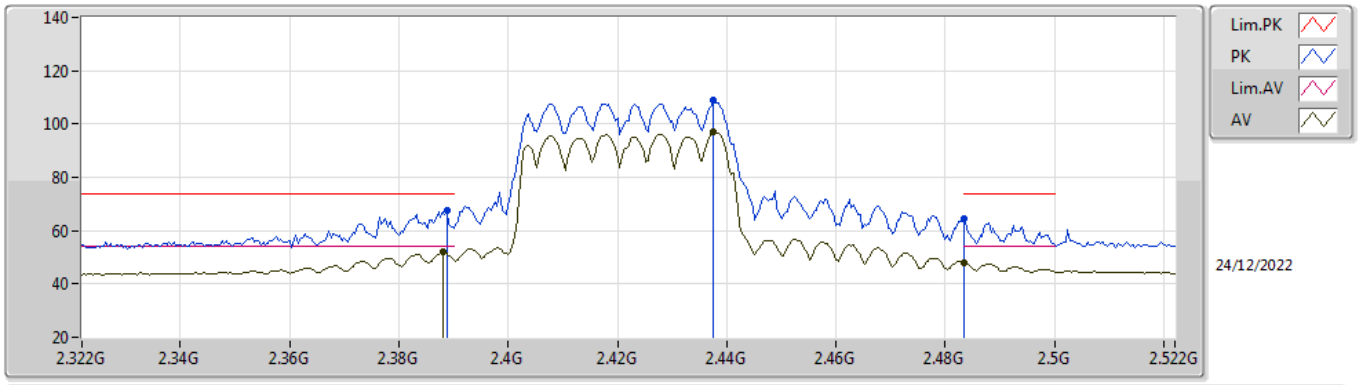


EUT Y_2TX
Setting 15
01-C-B-5

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	4.92487G	46.09	74.00	-27.91	40.14	3	Horizontal	259	1.28	-	33.00	5.82	32.87
AV	4.9165G	32.67	54.00	-21.33	26.72	3	Horizontal	259	1.28	-	33.00	5.82	32.87
PK	7.30536G	50.88	74.00	-23.12	39.31	3	Horizontal	129	1.73	-	37.60	7.15	33.18
AV	7.31343G	37.56	54.00	-16.44	25.98	3	Horizontal	129	1.73	-	37.60	7.16	33.18

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

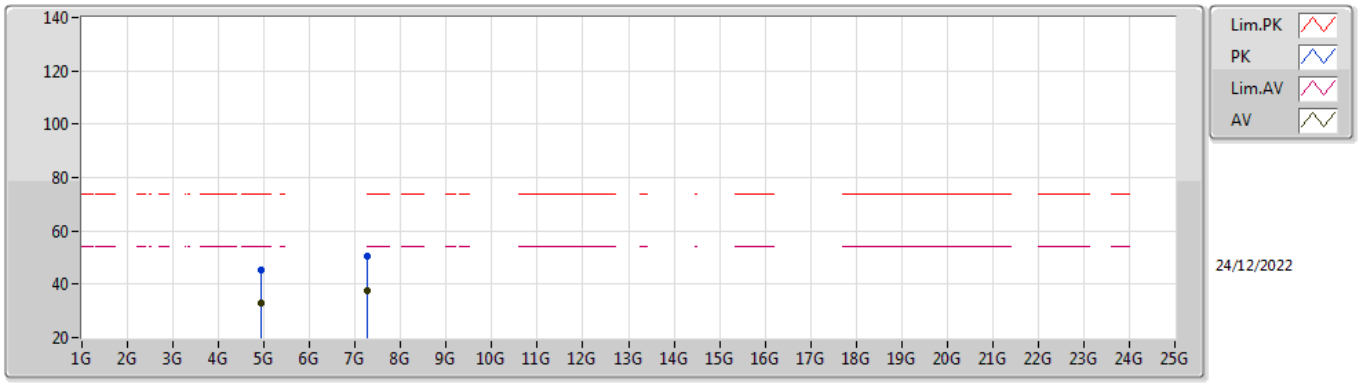


EUT Z_2TX
Setting 15
01-C-B-5

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	2.3888G	67.48	74.00	-6.52	36.11	3	Horizontal	360	2.99	-	27.78	3.59	-
AV	2.388G	52.01	54.00	-1.99	20.64	3	Horizontal	360	2.99	-	27.78	3.59	-
PK	2.4376G	109.01	Inf	-Inf	77.51	3	Horizontal	360	2.99	-	27.88	3.62	-
AV	2.4376G	96.92	Inf	-Inf	65.42	3	Horizontal	360	2.99	-	27.88	3.62	-
PK	2.4835G	64.24	74.00	-9.76	32.50	3	Horizontal	360	2.99	-	28.10	3.64	-
AV	2.4835G	47.70	54.00	-6.30	15.96	3	Horizontal	360	2.99	-	28.10	3.64	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

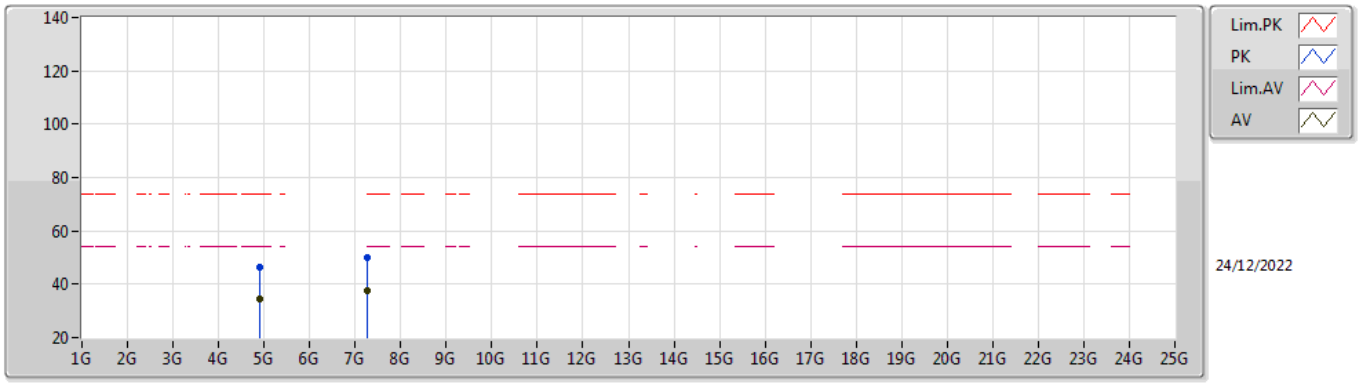


EUT Y_2TX
Setting 15
01-C-B-5

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	4.93045G	45.43	74.00	-28.57	39.46	3	Vertical	277	1.56	-	33.00	5.83	32.86
AV	4.924G	32.79	54.00	-21.21	26.84	3	Vertical	277	1.56	-	33.00	5.82	32.87
PK	7.26021G	50.59	74.00	-23.41	39.18	3	Vertical	247	1.13	-	37.44	7.13	33.16
AV	7.25994G	37.53	54.00	-16.47	26.12	3	Vertical	247	1.13	-	37.44	7.13	33.16

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

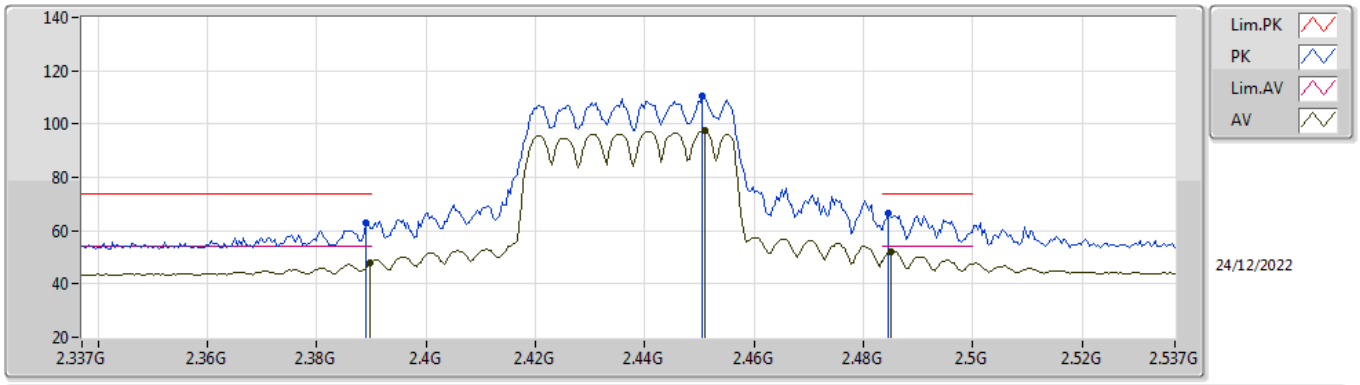


EUT Y_2TX
Setting 15
01-C-B-5

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	4.91671G	46.62	74.00	-27.38	40.67	3	Horizontal	313	1.13	-	33.00	5.82	32.87
AV	4.91689G	34.30	54.00	-19.70	28.35	3	Horizontal	313	1.13	-	33.00	5.82	32.87
PK	7.26822G	50.06	74.00	-23.94	38.62	3	Horizontal	346	2.70	-	37.47	7.13	33.16
AV	7.26G	37.58	54.00	-16.42	26.17	3	Horizontal	346	2.70	-	37.44	7.13	33.16

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

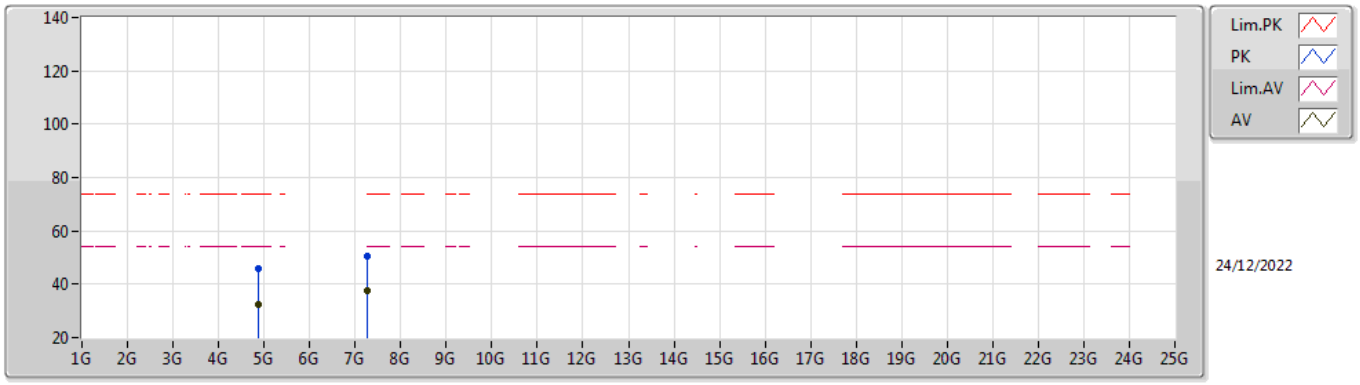


EUT Z_2TX
Setting 15
01-C-B-5

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	2.389G	62.85	74.00	-11.15	31.48	3	Horizontal	0	3.00	-	27.78	3.59	-
AV	2.3898G	48.03	54.00	-5.97	16.66	3	Horizontal	0	3.00	-	27.78	3.59	-
PK	2.4506G	110.70	Inf	-Inf	79.17	3	Horizontal	0	3.00	-	27.90	3.63	-
AV	2.451G	97.47	Inf	-Inf	65.93	3	Horizontal	0	3.00	-	27.91	3.63	-
PK	2.4846G	66.38	74.00	-7.62	34.63	3	Horizontal	0	3.00	-	28.11	3.64	-
AV	2.485G	52.27	54.00	-1.73	20.52	3	Horizontal	0	3.00	-	28.11	3.64	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

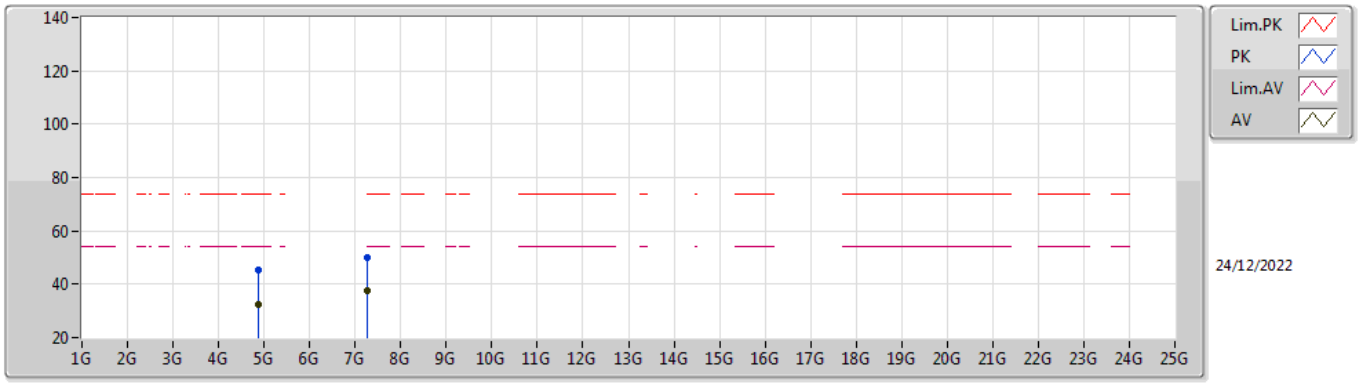


EUT Y_2TX
Setting 15
01-C-B-5

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	4.88081G	45.99	74.00	-28.01	40.08	3	Vertical	69	2.75	-	33.00	5.78	32.87
AV	4.86893G	32.50	54.00	-21.50	26.61	3	Vertical	69	2.75	-	33.00	5.77	32.88
PK	7.25934G	50.46	74.00	-23.54	39.04	3	Vertical	257	1.37	-	37.44	7.13	33.15
AV	7.26144G	37.58	54.00	-16.42	26.16	3	Vertical	257	1.37	-	37.45	7.13	33.16

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

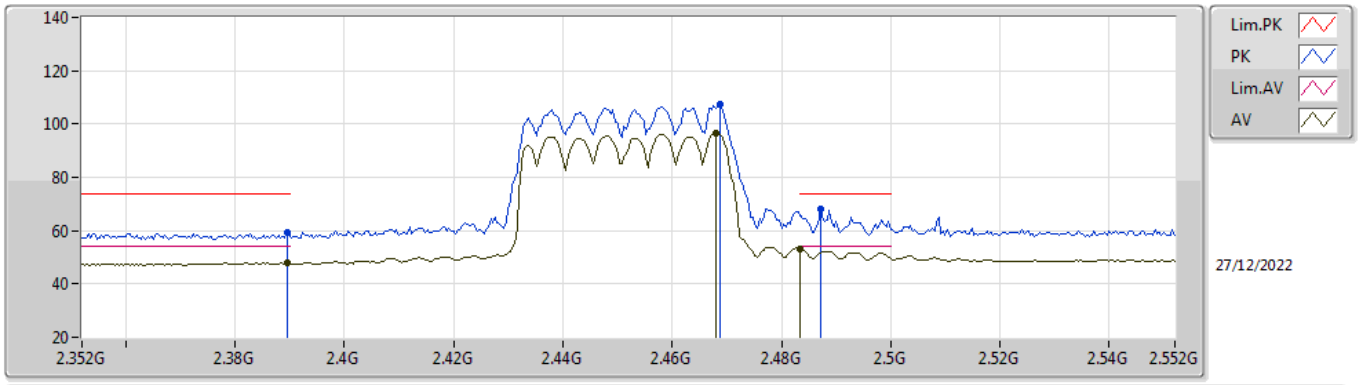


EUT Y_2TX
Setting 15
01-C-B-5

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	4.87883G	45.36	74.00	-28.64	39.45	3	Horizontal	131	1.52	-	33.00	5.78	32.87
AV	4.87148G	32.50	54.00	-21.50	26.61	3	Horizontal	131	1.52	-	33.00	5.77	32.88
PK	7.27275G	50.04	74.00	-23.96	38.57	3	Horizontal	8	1.05	-	37.49	7.14	33.16
AV	7.25985G	37.46	54.00	-16.54	26.05	3	Horizontal	8	1.05	-	37.44	7.13	33.16

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

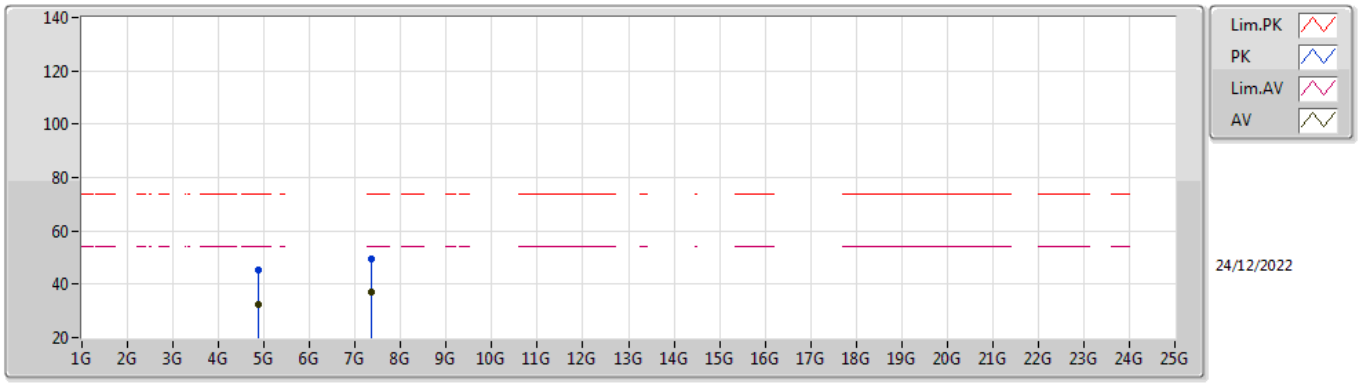


EUT Z_2TX
Setting 13.5
03-K-R-6

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	2.3896G	59.06	74.00	-14.94	26.81	3	Horizontal	59	1.97	-	28.26	3.99	-
AV	2.3896G	47.77	54.00	-6.23	15.52	3	Horizontal	59	1.97	-	28.26	3.99	-
PK	2.4688G	107.31	Inf	-Inf	74.86	3	Horizontal	59	1.97	-	28.38	4.07	-
AV	2.468G	96.74	Inf	-Inf	64.30	3	Horizontal	59	1.97	-	28.37	4.07	-
PK	2.4872G	68.36	74.00	-5.64	35.82	3	Horizontal	59	1.97	-	28.45	4.09	-
AV	2.4835G	52.87	54.00	-1.13	20.36	3	Horizontal	59	1.97	-	28.43	4.08	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

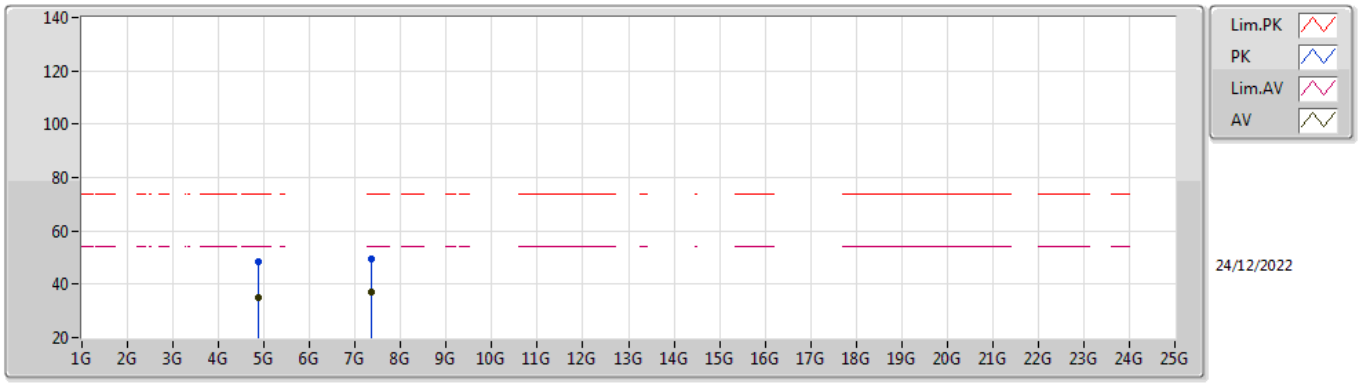


EUT Y_2TX
Setting 14
01-C-B-5

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	4.86887G	45.51	74.00	-28.49	39.62	3	Vertical	242	1.32	-	33.00	5.77	32.88
AV	4.87556G	32.55	54.00	-21.45	26.64	3	Vertical	242	1.32	-	33.00	5.78	32.87
PK	7.356G	49.58	74.00	-24.42	38.02	3	Vertical	265	1.91	-	37.59	7.18	33.21
AV	7.36224G	37.12	54.00	-16.88	25.57	3	Vertical	265	1.91	-	37.58	7.18	33.21

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT Y_2TX
Setting 14
01-C-B-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	4.87259G	48.66	74.00	-25.34	42.77	3	Horizontal	27	2.67	-	33.00	5.77	32.88
AV	4.87334G	34.99	54.00	-19.01	29.10	3	Horizontal	27	2.67	-	33.00	5.77	32.88
PK	7.35987G	49.59	74.00	-24.41	38.04	3	Horizontal	319	2.88	-	37.58	7.18	33.21
AV	7.35834G	37.09	54.00	-16.91	25.54	3	Horizontal	319	2.88	-	37.58	7.18	33.21