



# RADIO TEST REPORT

**FCC ID** : UDX-600200010  
**Equipment** : Cisco Wireless 9178I Series Wi-Fi 7 Access Point  
**Brand Name** : CISCO  
**Model Name** : CW9178I  
**Applicant** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA  
**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA  
**Standard** : 47 CFR FCC Part 15.407

The product was received on Jan. 17, 2024, and testing was started from Feb. 21, 2024 and completed on Jun. 22, 2024. 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**

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### Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.3	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.407(a)	Emission Bandwidth	PASS	-
3.3	15.407(a)	Maximum Output Power	PASS	-
3.4	15.407(a)	Power Spectral Density	PASS	-
3.5	15.407(b)	Unwanted Emissions	PASS	-

**Conformity Assessment Condition:**

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

**Disclaimer:**

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

**Reviewed by: Sam Chen**

**Report Producer: Cathy Chiu**



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HEW20), be (EHT20)	5180-5240	36-48 [4]
5250-5350		5260-5320	52-64 [4]
5470-5725		5500-5720	100-144 [12]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HEW40), be (EHT40)	5190-5230	38-46 [2]
5250-5350		5270-5310	54-62 [2]
5470-5725		5510-5710	102-142 [6]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HEW80), be (EHT80)	5210	42 [1]
5250-5350		5290	58 [1]
5470-5725		5530-5690	106-138 [3]
5725-5850		5775	155 [1]
5150-5350	ac (VHT160), ax (HEW160), be (EHT160)	5250	50 [1]
5470-5725		5570	114 [1]

### <Radio 2>

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11n HT20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11n HT20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11be EHT20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11be EHT20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11n HT40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11n HT40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW40-BF	40	2, 4TX/4RX



Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11be EHT40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11be EHT40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT80	80	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT80-BF	80	2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW80	80	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW80-BF	80	2, 4TX/4RX
5.15-5.25GHz	802.11be EHT80	80	1, 2, 4TX/4RX
5.15-5.25GHz	802.11be EHT80-BF	80	2, 4TX/4RX
5.15-5.35GHz	802.11ac VHT160	160	1, 2, 4TX/4RX
5.15-5.35GHz	802.11ac VHT160-BF	160	2, 4TX/4RX
5.15-5.35GHz	802.11ax HEW160	160	1, 2, 4TX/4RX
5.15-5.35GHz	802.11ax HEW160-BF	160	2, 4TX/4RX
5.15-5.35GHz	802.11be EHT160	160	1, 2, 4TX/4RX
5.15-5.35GHz	802.11be EHT160-BF	160	2, 4TX/4RX
5.25-5.35GHz	802.11a	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11n HT20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11n HT20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11be EHT20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11be EHT20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11n HT40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11n HT40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11be EHT40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11be EHT40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT80	80	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT80-BF	80	2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW80	80	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW80-BF	80	2, 4TX/4RX
5.25-5.35GHz	802.11be EHT80	80	1, 2, 4TX/4RX
5.25-5.35GHz	802.11be EHT80-BF	80	2, 4TX/4RX



**<Radio 3>**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11n HT20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11n HT20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11be EHT20	20	1, 2, 4TX/4RX
5.15-5.25GHz	802.11be EHT20-BF	20	2, 4TX/4RX
5.15-5.25GHz	802.11n HT40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11n HT40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11be EHT40	40	1, 2, 4TX/4RX
5.15-5.25GHz	802.11be EHT40-BF	40	2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT80	80	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ac VHT80-BF	80	2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW80	80	1, 2, 4TX/4RX
5.15-5.25GHz	802.11ax HEW80-BF	80	2, 4TX/4RX
5.15-5.25GHz	802.11be EHT80	80	1, 2, 4TX/4RX
5.15-5.25GHz	802.11be EHT80-BF	80	2, 4TX/4RX
5.15-5.35GHz	802.11ac VHT160	160	1, 2, 4TX/4RX
5.15-5.35GHz	802.11ac VHT160-BF	160	2, 4TX/4RX
5.15-5.35GHz	802.11ax HEW160	160	1, 2, 4TX/4RX
5.15-5.35GHz	802.11ax HEW160-BF	160	2, 4TX/4RX
5.15-5.35GHz	802.11be EHT160	160	1, 2, 4TX/4RX
5.15-5.35GHz	802.11be EHT160-BF	160	2, 4TX/4RX
5.25-5.35GHz	802.11a	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11n HT20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11n HT20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11be EHT20	20	1, 2, 4TX/4RX
5.25-5.35GHz	802.11be EHT20-BF	20	2, 4TX/4RX
5.25-5.35GHz	802.11n HT40	40	1, 2, 4TX/4RX



Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	802.11n HT40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11be EHT40	40	1, 2, 4TX/4RX
5.25-5.35GHz	802.11be EHT40-BF	40	2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT80	80	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ac VHT80-BF	80	2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW80	80	1, 2, 4TX/4RX
5.25-5.35GHz	802.11ax HEW80-BF	80	2, 4TX/4RX
5.25-5.35GHz	802.11be EHT80	80	1, 2, 4TX/4RX
5.25-5.35GHz	802.11be EHT80-BF	80	2, 4TX/4RX
5.47-5.725GHz	802.11a	20	1, 2, 4TX/4RX
5.47-5.725GHz	802.11n HT20	20	1, 2, 4TX/4RX
5.47-5.725GHz	802.11n HT20-BF	20	2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT20	20	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT20-BF	20	2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW20	20	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW20-BF	20	2, 4TX/4RX
5.47-5.725GHz	802.11be EHT20	20	1, 2, 4TX/4RX
5.47-5.725GHz	802.11be EHT20-BF	20	2, 4TX/4RX
5.47-5.725GHz	802.11n HT40	40	1, 2, 4TX/4RX
5.47-5.725GHz	802.11n HT40-BF	40	2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT40	40	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT40-BF	40	2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW40	40	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW40-BF	40	2, 4TX/4RX
5.47-5.725GHz	802.11be EHT40	40	1, 2, 4TX/4RX
5.47-5.725GHz	802.11be EHT40-BF	40	2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT80	80	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT80-BF	80	2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW80	80	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW80-BF	80	2, 4TX/4RX
5.47-5.725GHz	802.11be EHT80	80	1, 2, 4TX/4RX
5.47-5.725GHz	802.11be EHT80-BF	80	2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT160	160	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ac VHT160-BF	160	2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW160	160	1, 2, 4TX/4RX
5.47-5.725GHz	802.11ax HEW160-BF	160	2, 4TX/4RX





Band	Mode	BWch (MHz)	Nant
5.47-5.725GHz	802.11be EHT160	160	1, 2, 4TX/4RX
5.47-5.725GHz	802.11be EHT160-BF	160	2, 4TX/4RX
5.725-5.85GHz	802.11a	20	1, 2, 4TX/4RX
5.725-5.85GHz	802.11n HT20	20	1, 2, 4TX/4RX
5.725-5.85GHz	802.11n HT20-BF	20	2, 4TX/4RX
5.725-5.85GHz	802.11ac VHT20	20	1, 2, 4TX/4RX
5.725-5.85GHz	802.11ac VHT20-BF	20	2, 4TX/4RX
5.725-5.85GHz	802.11ax HEW20	20	1, 2, 4TX/4RX
5.725-5.85GHz	802.11ax HEW20-BF	20	2, 4TX/4RX
5.725-5.85GHz	802.11be EHT20	20	1, 2, 4TX/4RX
5.725-5.85GHz	802.11be EHT20-BF	20	2, 4TX/4RX
5.725-5.85GHz	802.11n HT40	40	1, 2, 4TX/4RX
5.725-5.85GHz	802.11n HT40-BF	40	2, 4TX/4RX
5.725-5.85GHz	802.11ac VHT40	40	1, 2, 4TX/4RX
5.725-5.85GHz	802.11ac VHT40-BF	40	2, 4TX/4RX
5.725-5.85GHz	802.11ax HEW40	40	1, 2, 4TX/4RX
5.725-5.85GHz	802.11ax HEW40-BF	40	2, 4TX/4RX
5.725-5.85GHz	802.11be EHT40	40	1, 2, 4TX/4RX
5.725-5.85GHz	802.11be EHT40-BF	40	2, 4TX/4RX
5.725-5.85GHz	802.11ac VHT80	80	1, 2, 4TX/4RX
5.725-5.85GHz	802.11ac VHT80-BF	80	2, 4TX/4RX
5.725-5.85GHz	802.11ax HEW80	80	1, 2, 4TX/4RX
5.725-5.85GHz	802.11ax HEW80-BF	80	2, 4TX/4RX
5.725-5.85GHz	802.11be EHT80	80	1, 2, 4TX/4RX
5.725-5.85GHz	802.11be EHT80-BF	80	2, 4TX/4RX

**<Scanning Radio 5>**

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	1TX/2RX
5.15-5.25GHz	802.11n HT20	20	1TX/2RX
5.15-5.25GHz	802.11ac VHT20	20	1TX/2RX
5.15-5.25GHz	802.11ax HEW20	20	1TX/2RX
5.15-5.25GHz	802.11n HT40	40	1TX/2RX
5.15-5.25GHz	802.11ac VHT40	40	1TX/2RX
5.15-5.25GHz	802.11ax HEW40	40	1TX/2RX
5.15-5.25GHz	802.11ac VHT80	80	1TX/2RX
5.15-5.25GHz	802.11ax HEW80	80	1TX/2RX
5.15-5.35GHz	802.11ac VHT160	160	1TX/2RX
5.15-5.35GHz	802.11ax HEW160	160	1TX/2RX
5.25-5.35GHz	802.11a	20	1TX/2RX



<b>Band</b>	<b>Mode</b>	<b>BWch (MHz)</b>	<b>Nant</b>
5.25-5.35GHz	802.11n HT20	20	1TX/2RX
5.25-5.35GHz	802.11ac VHT20	20	1TX/2RX
5.25-5.35GHz	802.11ax HEW20	20	1TX/2RX
5.25-5.35GHz	802.11n HT40	40	1TX/2RX
5.25-5.35GHz	802.11ac VHT40	40	1TX/2RX
5.25-5.35GHz	802.11ax HEW40	40	1TX/2RX
5.25-5.35GHz	802.11ac VHT80	80	1TX/2RX
5.25-5.35GHz	802.11ax HEW80	80	1TX/2RX
5.47-5.725GHz	802.11a	20	1TX/2RX
5.47-5.725GHz	802.11n HT20	20	1TX/2RX
5.47-5.725GHz	802.11ac VHT20	20	1TX/2RX
5.47-5.725GHz	802.11ax HEW20	20	1TX/2RX
5.47-5.725GHz	802.11n HT40	40	1TX/2RX
5.47-5.725GHz	802.11ac VHT40	40	1TX/2RX
5.47-5.725GHz	802.11ax HEW40	40	1TX/2RX
5.47-5.725GHz	802.11ac VHT80	80	1TX/2RX
5.47-5.725GHz	802.11ax HEW80	80	1TX/2RX
5.47-5.725GHz	802.11ac VHT160	160	1TX/2RX
5.47-5.725GHz	802.11ax HEW160	160	1TX/2RX
5.725-5.85GHz	802.11a	20	1TX/2RX
5.725-5.85GHz	802.11n HT20	20	1TX/2RX
5.725-5.85GHz	802.11ac VHT20	20	1TX/2RX
5.725-5.85GHz	802.11ax HEW20	20	1TX/2RX
5.725-5.85GHz	802.11n HT40	40	1TX/2RX
5.725-5.85GHz	802.11ac VHT40	40	1TX/2RX
5.725-5.85GHz	802.11ax HEW40	40	1TX/2RX
5.725-5.85GHz	802.11ac VHT80	80	1TX/2RX
5.725-5.85GHz	802.11ax HEW80	80	1TX/2RX



**MRU (static preamble puncturing)**

For Multi\_RU:

RU-tone	Bandwidth (MHz)			5GHz Test CH					
				UNII-1	UNII-2A	UNII-2C		UNII2C/3	UNII-3
	80			CH42	CH58	CH106	CH122	CH138	CH155
242+242(MCS0)	242		242	V	V	V	V	V	V
242+242(MCS4)	242		242	V	V	V	V	V	V
484+242(MCS0)	484		242	V	V	V	V	V	V
484+242(MCS4)	484		242	V	V	V	V	V	V

RU-tone	Bandwidth (MHz)			5GHz Test CH				
				UNII-1/2A	UNII-2C			
	160			CH50	CH114			
996+484(MCS0)	484			996	V	V		
996+484(MCS4)	484			996	V	V		
996+484+3x242(MCS0)	484	242		242		242	V	V
996+484+3x242(MCS4)	484	242		242		242	V	V
484+484(MCS0)	484				484		V	V
484+484(MCS4)	484				484		V	V

**For Puncturing:**

RU-tone	Configuration	Bandwidth (MHz)			5GHz Test CH					
					UNII-1	UNII-2A	UNII-2C		UNII2C/3	UNII-3
		80			CH42	CH58	CH106	CH122	CH138	CH155
484+242	1		242	484	--	V	--	V	V	V
	2	242		484	V	V	V	V	V	V
	3	484		242	V	V	V	V	V	V
	4	484	242		V	--	V	V	--	V

RU-tone	Configuration	Bandwidth (MHz)			5GHz Test CH				
					UNII-1/2A	UNII-2C			
		160			CH50	CH114			
996+484	1		484		996	--	V		
	2	484			996	V	V		
	3			996		484	V	V	
	4			996	484		V	--	
996+484+242	1		242	484		996	--	V	
	2	242		484		996	V	V	
	3	484		242		996	V	V	
	4	484	242			996	V	V	
	5			996		242	484	V	V
	6			996	242		484	V	V
	7			996	484		242	V	V
	8			996	484	242		V	--

**Note:**

- 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40, VHT80 and VHT160 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20, HEW40, HEW80 and HEW160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- EHT20, EHT40, EHT80 and EHT160 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulation.
- BWch is the nominal channel bandwidth.



**1.1.2 Worst case of MRU(static preamble puncturing) evaluation procedure**

1. Complete test Full RU BE & PSD
2. Measure the PSD of each MRU(static preamble puncturing) by conducted method and it is less than the Full RU conducted PSD.
3. Measure the Band edge emission of each MRU(static preamble puncturing) by conducted method and find out the MRU(static preamble puncturing) worst case configuration.
4. Follow step 3 to find the worst MRU(static preamble puncturing) configuration and perform radiated unwanted emission testing
5. Confirm whether the worst MRU(static preamble puncturing) configuration setting in steps 3 1and step 4 is the same. If there is a channel where the setting drops due to the test in step 4, the PSD of MRU(static preamble puncturing) needs to be reduced.

**1.1.3 Antenna Information**

Ant.	Brand Name	Model Name	Antenna Type	Connector	Support Function	Gain (dBi)
1	WNC	95XEAK15.G98	PIFA	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	Note2
2	WNC	95XEAK15.G96	PCB	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	
3	WNC	95XEAK15.G97	PCB	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	
4	WNC	95XEAK15.G99	PIFA	I-PEX	Radio 1 2.4GHz and Radio 2 5GHz UNII 1~2A	
5	WNC	95XEAK15.GA3	PIFA	I-PEX	Radio 3 5GHz UNII 1~3	
6	WNC	95XEAK15.GA1	PCB	I-PEX	Radio 3 5GHz UNII 1~3	
7	WNC	95XEAK15.GA2	PCB	I-PEX	Radio 3 5GHz UNII 1~3	
8	WNC	95XEAK15.GA4	PIFA	I-PEX	Radio 3 5GHz UNII 1~3	
9	WNC	95XEAK15.GA7	PIFA	I-PEX	Radio 4 6GHz UNII 5~8	
10	WNC	95XEAK15.GA5	PCB	I-PEX	Radio 4 6GHz UNII 5~8	
11	WNC	95XEAK15.GA6	PCB	I-PEX	Radio 4 6GHz UNII 5~8	
12	WNC	95XEAK15.GA8	PIFA	I-PEX	Radio 4 6GHz UNII 5~8	
13	WNC	95XEAK15.GAB	PIFA	I-PEX	Radio 5 2.4GHz, 5GHz UNII 1~3 and 6GHz UNII 5~8	
14	WNC	95XEAK15.GAC	PIFA	I-PEX	Radio 5 2.4GHz, 5GHz UNII 1~3 and 6GHz UNII 5~8	
15	WNC	95XEAK15.GA9	PIFA	I-PEX	Radio 6 Bluetooth and Zigbee	
16	WNC	95XEAK15.GBM	PIFA	I-PEX	Radio 7 UWB	
17	WNC	95XEAK15.GBD	PCB	I-PEX	Radio 7 UWB	
18	WNC	95XEAK15.GAA	PIFA	I-PEX	Radio 8 GPS	



Ant.	Port															
	R1: WLAN 2.4GHz			R2: WLAN 5GHz UNII 1~2A			R3: WLAN 5GHz UNII 1~3			R4: WLAN 6GHz UNII 5~8			R5: WLAN 2.4GHz, WLAN 5GHz UNII 1~3, WLAN 6GHz UNII 5~8	R6: Bluetooth /Zigbee	R7: UWB	R8: GPS
	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	2TX	4TX	1TX	1TX	2TX	1RX
1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-
2	-	-	4	-	-	4	-	-	-	-	-	-	-	-	-	-
3	-	2	2	-	2	2	-	-	-	-	-	-	-	-	-	-
4	-	-	3	-	-	3	-	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-
6	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-
7	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
8	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
9	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-
10	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-
11	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-
12	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-
13	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
14	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
15	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-
18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1

Note 1: R means Radio.



Note 2:

Ant.	Antenna Gain (dBi)								
	R1: WLAN 2.4GHz			R2: WLAN 5GHz UNII 1~2A					
				5.2G			5.3G		
1	2.85			3.51				3.24	
2	3.82			3.53				2.9	
3	3.85			3.93				3.85	
4	2.41			4.97				3.73	
Ant.	R3: WLAN 5GHz UNII 1~3								
		5.2G		5.3G		5.6G		5.785G	
5	3.19			2.63			3.54		3.53
6	4.83			3.89			4.03		3.86
7	4.73			3.86			4.54		3.48
8	3.64			2.51			3.91		3.45
Ant.	R4: WLAN 6GHz UNII 5~8								
		6.175G		6.475G		6.695G		6.995G	
9	4.69			3.74			4.57		5.38
10	4.68			5.42			5.56		4.3
11	4.77			4.82			4.67		4.42
12	4.7			2.33			3.23		3.98
Ant.	R5: WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz UNII 5~8								
		2.45G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G
13	2.17	2.74	3.39	4.78	3.51	3.96	4.67	4.31	4.8
14	1.83	5.46	4.17	6.68	6.06	5.1	4.49	4.37	4.7
Ant.	R6: Bluetooth/Zigbee								
	15	2.91							
Ant.	R7: UWB								
	16	6.3							
17	6.5								
Ant.	R8: GPS								
	18	1.16GHz~1.19GHz				1.56GHz~1.59GHz			
	2.3				4.9				

Note 3:

Item	Directional Gain (dBi)								
	R1: WLAN 2.4GHz			R2: WLAN 5GHz UNII 1~2A					
				5.2G			5.3G		
2T1S	4.47			3.93				3.85	
2T2S	3.85			3.93				3.85	
4T1S	7.01			5.11				4.06	
4T2S	4.01			4.97				3.85	
4T4S	3.85			4.97				3.85	
Item	R3: WLAN 5GHz UNII 1~3 / R4: WLAN 6GHz UNII 5~8								
		5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
2T1S	4.83	3.89	4.03	3.86	4.97	4.82	4.67	4.42	
2T2S	4.83	3.89	4.03	3.86	4.77	4.82	4.67	4.42	
4T1S	6.96	5.69	6.34	5.28	6.14	6.09	6.02	5.46	
4T2S	4.83	3.89	4.54	3.86	4.77	5.42	5.56	5.38	
4T4S	4.83	3.89	4.54	3.86	4.77	5.42	5.56	5.38	

Note 4: The above information (excepting antenna gain of Radio 1~6) was declared by manufacturer.

Note 5: Radio 1~5: Maximum Directional Gain following KDB662911 D03.

**For WLAN 2.4GHz function (Radio 1):**

**For IEEE 802.11b/g/n/VHT/ax/be mode (1TX,2TX,4TX/4RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.



For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For WLAN 5GHz UNII 1~2A function (Radio 2):**

**For IEEE 802.11a/n/ac/ax/be mode (1TX,2TX,4TX/4RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For WLAN 5GHz UNII 1~3 function (Radio 3):**

**For IEEE 802.11a/n/ac/ax/be mode (1TX,2TX,4TX/4RX)**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For WLAN 6GHz UNII 5~8 function (Radio 4):**

**For IEEE 802.11ax/be mode (1TX,2TX,4TX/4RX)**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For Scanning Radio 5:**

**For WLAN 2.4GHz function:**

**For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

**For WLAN 5GHz UNII 1~3 function:**

**For IEEE 802.11a/n/ac/ax mode (1TX/2RX):**

For 1TX



Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

**For WLAN 6GHz UNII 5~8:**

**For IEEE 802.11ax mode (1TX/2RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2RX

Port 1 and Port 2 can be used as receiving antennas.

Port 1 and Port 2 could receive simultaneously.

**For Bluetooth/Zigbee function (Radio 6):**

**For Bluetooth/Zigbee mode (1TX/1RX):**

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

**For UWB function (Radio 7):**

**For UWB mode (2TX/4RX):**

For 2TX

Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For GPS function (Radio 8):**

**For GPS mode (1RX):**

Only Port 1 can be used as receiving antenna.





1.1.4 Mode Test Duty Cycle

For Full\_RU:

<Radio 2>

Table with 5 columns: Mode, DC, DCF(dB), T(s), VBW(Hz)\_1/T. Rows include modes like 802.11a\_Nss 1,(6D), 802.11be EHT20\_Nss 1,(M0), etc.

<Radio 3>

Table with 5 columns: Mode, DC, DCF(dB), T(s), VBW(Hz)\_1/T. Rows include modes like 802.11a\_Nss 1,(6D), 802.11be EHT20\_Nss 1,(M0), etc.

For Multi\_RU:

<Radio 2>

Table with 5 columns: Mode, DC, DCF(dB), T(s), VBW(Hz)\_1/T. Rows include modes like 802.11be EHT80\_Nss 1,(M0),RU484+RU242, etc.

<Radio 3>

Table with 5 columns: Mode, DC, DCF(dB), T(s), VBW(Hz)\_1/T. Rows include modes like 802.11be EHT80\_Nss 1,(M0),RU484+RU242, etc.



**For Puncturing:**

**<Radio 2>**

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11be EHT80_Nss 1,(M14),RU484+RU242	0.985	0.07	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT160_Nss 1,(M14),RU996+RU484+RU242	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT160_Nss 1,(M14),RU996+RU484	0.98	0.09	n/a (DC>=0.98)	n/a (DC>=0.98)

**<Radio 3>**

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11be EHT80_Nss 1,(M14),RU484+RU242	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT160_Nss 1,(M14),RU996+RU484+RU242	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11be EHT160_Nss 1,(M14),RU996+RU484	0.997	0.01	n/a (DC>=0.98)	n/a (DC>=0.98)

**<Scanning Radio 5>**

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11a_Nss 1,(6D)	0.933	0.3	1.977m	1k
802.11ax HEW20_Nss 1,(M0)	0.772	1.12	5.446m	300
802.11ax HEW40_Nss 1,(M0)	0.78	1.08	5.446m	300
802.11ax HEW80_Nss 1,(M0)	0.817	0.88	5.446m	300
802.11ax HEW160_Nss 1,(M0)	0.772	1.12	5.446m	300

**Note:**

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.



1.1.5 EUT Operational Condition

<b>EUT Power Type</b>	From PoE	
<b>Beamforming Function</b>	<input checked="" type="checkbox"/> With beamforming	<input type="checkbox"/> Without beamforming
	The product has beamforming function for n/VHT/ax/be in Radio1-2.4GHz, n/ac/ax/be in Radio2 and Radio 3-5GHz and ax/be in Radio4-6GHz.	
<b>Weather Band</b>	<input checked="" type="checkbox"/> With 5600~5650MHz	<input type="checkbox"/> Without 5600~5650MHz
<b>TPC Function</b>	<input checked="" type="checkbox"/> With TPC	<input type="checkbox"/> Without TPC
<b>Channel Puncturing Function</b>	<input checked="" type="checkbox"/>	Supported Static Puncturing for Radio 2, 3
	<input type="checkbox"/>	Supported Dynamic Puncturing
	<input checked="" type="checkbox"/>	Unsupported for Scanning Radio 5
<b>Support RU</b>	<input checked="" type="checkbox"/>	Full RU for Radio 2, 3 and Scanning Radio 5
	<input checked="" type="checkbox"/>	Partial RU for Radio 2, 3
<b>Test Software Version</b>	For Non-beamforming mode: For Full RU: QSPR v6.00.00110.1 For Partial RU: QRCT v4.0.95.1 For Beamforming mode: DOS[ver 6.1.7601]	

Note: The above information was declared by manufacturer.

1.1.6 Table for EUT Support Function

Function	Supports Band
AP	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8, Bluetooth, Zigbee, UWB and GPS
Mesh	6GHz UNII 5~8

Note1: For above table list, only AP mode was tested and recorded in this test.

Note2: The above information was declared by manufacturer.

1.1.7 Table for Multiple Listing

Equipment Name	Model Name	Software	Frequencies supported by 320MHz
Cisco Wireless 9178I Series Wi-Fi 7 Access Point	CW9178I	Cisco	6105, 6265, 6425, 6745 MHz
		Meraki	6105, 6265, 6425, 6585, 6745, 6905 MHz

Note: The above information was declared by manufacturer.



**1.1.8 Table for Radio function**

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Zigbee	UWB	GPS
1	V	-	-	-	-	-	-
2	-	V (UNII 1~2A)	-	-	-	-	-
3	-	V (UNII 2C~3/UNII 1~3)	-	-	-	-	-
4	-	-	V	-	-	-	-
5 (Scanning Radio)	V	V (UNII 1~3)	V	-	-	-	-
6	-	-	-	V	V	-	-
7	-	-	-	-	-	V	-
8	-	-	-	-	-	-	V

Note1: The above information was declared by manufacturer.

Note2: For WLAN 2.4GHz: The Radio 1 and Radio 5 can't operate at the same frequency.

For WLAN 5GHz: The Radio 2, 3, 5 can't operate at the same frequency.

For WLAN 6GHz: The Radio 4 and Radio 5 can't operate at the same frequency simultaneously.

**1.1.9 Table for EUT Operation Function**

Mode	Operation Function
1	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 2.4GHz+R6: Bluetooth+R7: UWB
2	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 5GHz+R6: Bluetooth+R7: UWB
3	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 6GHz+R6: Bluetooth+R7: UWB
4	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 2.4GHz+R6: Zigbee+R7: UWB
5	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 5GHz+R6: Zigbee+R7: UWB
6	R1: 2.4GHz+R2: 5GHz Low Band+R3: 5GHz Full Band/High band+R4: 6GHz+R5: 6GHz+R6: Zigbee+R7: UWB

Note: The above information was declared by manufacturer.



### 1.2 Applicable Standards

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

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

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

- ♦ FCC KDB 662911 D03 v01
- ♦ FCC KDB 412172 D01 v01r01
- ♦ FCC KDB 414788 D01 v01r01

### 1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Ken Yeh	21.4-22.7 / 66-69	Mar. 04, 2024-May 29, 2024, May 07, 2024-Jun. 22, 2024
Radiated (below 1GHz)	03CH05-CB	Gordon Hung	21.6-22.7 / 56-59	May 30, 2024
Radiated (above 1GHz)	03CH01-CB	Gordon Hung	22-23 / 55-58	Feb. 21, 2024-May 29, 2024, May 14, 2024-Jun. 22, 2024
	03CH02-CB	Gordon Hung	21.8-22.9 / 55-58	Feb. 21, 2024-May 29, 2024, May 14, 2024-Jun. 22, 2024
	03CH03-CB	Gordon Hung	21.4-22.5 / 55-58	Feb. 21, 2024-May 29, 2024, May 14, 2024-Jun. 22, 2024
Radiated (Co-location)	03CH01-CB	Gordon Hung	22-23 / 55-58	May 30, 2024
AC Conduction	CO01-CB	Bob Chang	22-23 / 55-56	Jun. 06, 2024-Jun. 11, 2024



### 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 Date: Date Before May 28, 2024**

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.2%	Confidence levels of 95%

**Test Date: Date After May 27, 2024**

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	4.1 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	4.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.0 dB	Confidence levels of 95%
Conducted Emission	3.1 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.1 dB	Confidence levels of 95%
Bandwidth Measurement	2.1 %	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

For Full\_RU:

<Radio 2>

Mode
802.11a_Nss1,(6Mbps)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT20_Nss1,(MCS0)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40_Nss1,(MCS0)_1TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80_Nss1,(MCS14)_1TX
5210MHz
5290MHz
802.11be EHT160_Nss1,(MCS14)_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz



802.11be EHT80_Nss1,(MCS14)_2TX
5210MHz
5290MHz
802.11be EHT160_Nss1,(MCS14)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80_Nss1,(MCS14)_4TX
5210MHz
5290MHz
802.11be EHT160_Nss1,(MCS14)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80-BF_Nss1,(MCS14)_2TX
5210MHz
5290MHz
802.11be EHT160-BF_Nss1,(MCS14)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz





5240MHz
5260MHz
5300MHz
5320MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
802.11be EHT80-BF_Nss1,(MCS14)_4TX
5210MHz
5290MHz
802.11be EHT160-BF_Nss1,(MCS14)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

**<Radio 3>**

Mode
802.11a_Nss1,(6Mbps)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_1TX
5190MHz
5230MHz
5270MHz



5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS14)_1TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS14)_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11a_Nss1,(6Mbps)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40_Nss1,(MCS0)_2TX
5190MHz



5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS14)_2TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS14)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11a_Nss1,(6Mbps)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT20_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz



802.11be EHT40_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80_Nss1,(MCS14)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160_Nss1,(MCS14)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_2TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_2TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS14)_2TX



5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS14)_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz
802.11be EHT20-BF_Nss1,(MCS0)_4TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11be EHT40-BF_Nss1,(MCS0)_4TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11be EHT80-BF_Nss1,(MCS14)_4TX
5210MHz
5290MHz
5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11be EHT160-BF_Nss1,(MCS14)_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz



**For Multi\_RU:  
<Radio 2>**

<b>Mode</b>
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5290MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_1TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_1TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5290MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_2TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_2TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5290MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.15-5.25GHz



802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
5250MHz Straddle 5.25-5.35GHz

**<Radio 3>**

Mode
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_1TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_1TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_1TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_1TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX



5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_1TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_1TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_1TX
5570MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_2TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_2TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_2TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_2TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_2TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_2TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_2TX





5570MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5210MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5290MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5530MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5610MHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS0),RU484+RU242 MRU 3_4TX
5775MHz
802.11be EHT80_Nss1,(MCS0),RU242+RU242 MRU 1_4TX
5775MHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
5250MHz Straddle 5.15-5.25GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS0),RU996+RU484 MRU 2_4TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU726+RU242+RU242 MRU 1_4TX
5570MHz
802.11be EHT160_Nss1,(MCS0),RU484+RU484 MRU 1_4TX
5570MHz



**For Puncturing:  
<Radio 2>**

Mode
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 4_1TX
5210MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_1TX
5290MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 7_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 2_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 4_2TX
5210MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_2TX
5290MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 7_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 2_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 4_4TX
5210MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_4TX
5290MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 7_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 2_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz

**<Radio 3>**

Mode
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_1TX
5210MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_1TX
5290MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 2_1TX
5530MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_1TX
5610MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_1TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_1TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_1TX
5775MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 6_1TX
5250MHz Straddle 5.15-5.25GHz



5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 2_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 6_1TX
5570MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 3_1TX
5570MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_2TX
5210MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_2TX
5290MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 2_2TX
5530MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_2TX
5610MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_2TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_2TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_2TX
5775MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 6_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 2_2TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 6_2TX
5570MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 3_2TX
5570MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_4TX
5210MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_4TX
5290MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 2_4TX
5530MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_4TX
5610MHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_4TX
5690MHz Straddle 5.47-5.725GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 1_4TX
5690MHz Straddle 5.725-5.85GHz
802.11be EHT80_Nss1,(MCS14),RU484+RU242 CP 3_4TX
5775MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 6_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 2_4TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz



802.11be EHT160_Nss1,(MCS14),RU996+RU484+RU242 CP 6_4TX
5570MHz
802.11be EHT160_Nss1,(MCS14),RU996+RU484 CP 3_4TX
5570MHz

**<Scanning Radio 5>**

Mode
802.11a_Nss1,(6Mbps)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11ax HEW20_Nss1,(MCS0)_1TX
5180MHz
5200MHz
5240MHz
5260MHz
5300MHz
5320MHz
5500MHz
5580MHz
5700MHz
5720MHz Straddle 5.47-5.725GHz
5720MHz Straddle 5.725-5.85GHz
5745MHz
5785MHz
5825MHz
802.11ax HEW40_Nss1,(MCS0)_1TX
5190MHz
5230MHz
5270MHz
5310MHz
5510MHz
5550MHz
5670MHz
5710MHz Straddle 5.47-5.725GHz
5710MHz Straddle 5.725-5.85GHz
5755MHz
5795MHz
802.11ax HEW80_Nss1,(MCS0)_1TX
5210MHz
5290MHz



5530MHz
5610MHz
5690MHz Straddle 5.47-5.725GHz
5690MHz Straddle 5.725-5.85GHz
5775MHz
802.11ax HEW160_Nss1,(MCS0)_1TX
5250MHz Straddle 5.15-5.25GHz
5250MHz Straddle 5.25-5.35GHz
5570MHz

**Note:**

- ♦ For Radio 2, 3: Evaluated EHT20/EHT40/EHT80/EHT160 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160/HEW20/HEW40/HEW80/HEW160 mode are the same or lower than EHT20/EHT40/EHT80/EHT160.
- ♦ For Scanning Radio 5: Evaluated HEW20/HEW40/HEW80/HEW160 mode only, due to similar modulation. The power setting of HT20/HT40/VHT20/VHT40/VHT80/VHT160 mode are the same or lower than HEW20/HEW40/HEW80/HEW160.
- ♦ For Radio 2, 3: The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.



## 2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
<b>Operating Mode</b>	CTX
1	EUT + Radio 1(2.4GHz) + LAN 0 port + PoE 1
2	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 1
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~9 will follow this same test mode.	
3	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 2
4	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 3
5	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 4
6	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 5
7	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 6
8	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 7
9	EUT + Radio 1(2.4GHz) + LAN 1 port + PoE 8
Mode 5 has been evaluated to be the worst case among Mode 1~9, thus measurement for Mode 10~17 will follow this same test mode.	
10	EUT + Radio 2(5GHz Low Band) + LAN 1 port + PoE 4
11	EUT + Radio 3(5GHz Full Band/High Band) + LAN 1 port + PoE 4
12	EUT + Radio 4(6GHz Full Band) + LAN 1 port + PoE 4
13	EUT + Scanning Radio 5(2.4GHz) + LAN 1 port + PoE 4
14	EUT + Scanning Radio 5(5GHz Full Band) + LAN 1 port + PoE 4
15	EUT + Scanning Radio 5(6GHz Full Band) + LAN 1 port + PoE 4
16	EUT + Radio 6(Bluetooth) + LAN 1 port + PoE 4
17	EUT + Radio 6(Zigbee) + LAN 1 port + PoE 4
For operating mode 5 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emission Bandwidth Maximum Output Power
<b>Test Condition</b>	Conducted measurement at transmit chains
1	Radio 2
2	Radio 3
3	Radio 5



The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Power Spectral Density
<b>Test Condition</b>	Conducted measurement at transmit chains
1	Radio 2_Full RU
2	Radio 2_Multi_RU
3	Radio 2_Puncturing
4	Radio 3_Full RU
5	Radio 3_Multi_RU
6	Radio 3_Puncturing
7	Radio 5

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Unwanted Emissions
<b>Test Condition</b>	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.
<b>Operating Mode &lt; 1GHz</b>	CTX
After evaluating, the worst case was found at as below for Unwanted Emissions above 1GHz. Thus, the measurement will follow this same test configuration.	
1	EUT in Y-axis + Radio 1(2.4GHz) + LAN0 port + PoE 1
2	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 1
Mode 2 has been evaluated to be the worst case among Mode 1~2, thus measurement for Mode 3~9 will follow this same test mode.	
3	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 2
4	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 3
5	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 4
6	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 5
7	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 6
8	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 7
9	EUT in Y-axis + Radio 1(2.4GHz) + LAN1 port + PoE 8
Mode 6 has been evaluated to be the worst case among Mode 1~9, thus measurement for Mode 10~17 will follow this same test mode.	
10	EUT in X-axis + Radio 2(5GHz Low Band) + LAN1 port + PoE 5
11	EUT in Z-axis + Radio 3(5GHz Full Band/High Band) + LAN1 port + PoE 5
12	EUT in X-axis + Radio 4(6GHz Full Band) + LAN1 port + PoE 5
13	EUT in Z-axis + Scanning Radio 5(2.4GHz) + LAN1 port + PoE 5



14	EUT in Y-axis + Scanning Radio 5(5GHz Full Band) + LAN1 port + PoE 5
15	EUT in Z-axis + Scanning Radio 5(6GHz Full Band) + LAN1 port + PoE 5
16	EUT in X-axis + Radio 6(Bluetooth) + LAN1 port + PoE 5
17	EUT in X-axis + Radio 6(Zigbee) + LAN1 port + PoE 5
For operating mode 15 is the worst case and it was record in this test report.	
<b>Operating Mode &gt; 1GHz</b>	CTX
After evaluating, the worst case was found as below, so it was selected to perform test and its test result was written in the report.	
1	Radio 2(5GHz Low Band)_Full RU: EUT in Y-axis_1T1S/ EUT in X-axis_2T1S, 4T1S
2	Radio 2(5GHz Low Band)_Multi_RU: EUT in Y-axis_1T1S/ EUT in X-axis_2T1S, 4T1S
3	Radio 2(5GHz Low Band)_Puncturing: EUT in Y-axis_1T1S/ EUT in X-axis_2T1S, 4T1S
4	Radio 3(5GHz Full Band)_Full RU: EUT in Z-axis_1T1S/ EUT in X-axis_2T1S, 4T1S
5	Radio 3(5GHz Full Band)_Multi_RU: EUT in Z-axis_1T1S/ EUT in X-axis_2T1S, 4T1S
6	Radio 3(5GHz Full Band)_Puncturing: EUT in Z-axis_1T1S/ EUT in X-axis_2T1S, 4T1S
7	Scanning Radio 5(5GHz Full Band): EUT in Y-axis_1T1S

<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Radiated Emission Co-location
<b>Test Condition</b>	Radiated measurement
<b>Operating Mode</b>	Normal Link
After evaluating, and the worst case was found at X axis, so it was selected to perform test and its test result was written in the report.	
1	EUT in X axis_Radio 1(2.4GHz) + Radio 2(5GHz Low Band)
Refer to Appendix F for Radiated Emission Co-location.	





<b>The Worst Case Mode for Following Conformance Tests</b>	
<b>Tests Item</b>	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
<b>Operating Mode</b>	
1	Radio 1(2.4GHz) + Radio 2(5GHz Low Band) + Radio 3(5GHz Full Band/High Band) + Radio 4(6GHz Full Band) + Scanning Radio 5(2.4GHz) + Radio 6(Bluetooth) + Radio 7(UWB)
2	Radio 1(2.4GHz) + Radio 2(5GHz Low Band) + Radio 3(5GHz Full Band/High Band) + Radio 4(6GHz Full Band) + Scanning Radio 5(5GHz) + Radio 6(Bluetooth) + Radio 7(UWB)
3	Radio 1(2.4GHz) + Radio 2(5GHz Low Band) + Radio 3(5GHz Full Band/High Band) + Radio 4(6GHz Full Band) + Scanning Radio 5(6GHz) + Radio 6(Bluetooth) + Radio 7(UWB)
4	Radio 1(2.4GHz) + Radio 2(5GHz Low Band) + Radio 3(5GHz Full Band/High Band) + Radio 4(6GHz Full Band) + Scanning Radio 5(2.4GHz) + Radio 6(Zigbee) + Radio 7(UWB)
5	Radio 1(2.4GHz) + Radio 2(5GHz Low Band) + Radio 3(5GHz Full Band/High Band) + Radio 4(6GHz Full Band) + Scanning Radio 5(5GHz) + Radio 6(Zigbee) + Radio 7(UWB)
6	Radio 1(2.4GHz) + Radio 2(5GHz Low Band) + Radio 3(5GHz Full Band/High Band) + Radio 4(6GHz Full Band) + Scanning Radio 5(6GHz) + Radio 6(Zigbee) + Radio 7(UWB)
Refer to Sporton Test Report No.: FA411617 for Co-location RF Exposure Evaluation.	

Note1: The PoEs are for measurement only, would not be marketed.

The information of PoE as below:

<b>Power</b>	<b>Brand Name</b>	<b>Model Name</b>
PoE 1	Microsemi	PD-9001GR/AT/AC
PoE 2	PHIHONG	POE29U-1AT(PL)
PoE 3	DELTA	ADH-65AR B
PoE 4	PHIHONG	POEA33U-1ATE
PoE 5	PHIHONG	POE60U-1BT-X
PoE 6	PHIHONG	POE60U-BTA(X66M-R)
PoE 7	PHIHONG	POE60U-BTA(X664-R)
PoE 8	DELTA	ADH-65AR P



### 2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

During the test, the following programs under WIN 10 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under DOS.
3. Executed "Lantest.exe" to link with the remote workstation to transmit and receive packet by Client and transmit duty cycle no less than 98%.

For Normal Link Mode:

During the test, the EUT operation to normal function.

### 2.4 Accessories

Accessories	
Bracket 1*1	
Bracket 2*1	

### 2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE 4	PHIHONG	POEA33U-1ATE	N/A
B	PC	ASUS	S300TA	TX2-RTL8821CE
C	Flash disk3.0	Transcend	JetFlash-703	N/A

For Radiated (below 1GHz) and Radiated (above 1GHz) / Non-beamforming mode:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 5	PHIHONG	POE60U-1BT-X	N/A



**For Radiated (above 1GHz) / Beamforming mode:**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	DELL	E4300	N/A
B	PoE 5	PHIHONG	POE60U-1BT-X	N/A
C	Client	CISCO	R7AQ-C1	UDX-600200010
D	Notebook	DELL	E4300	N/A

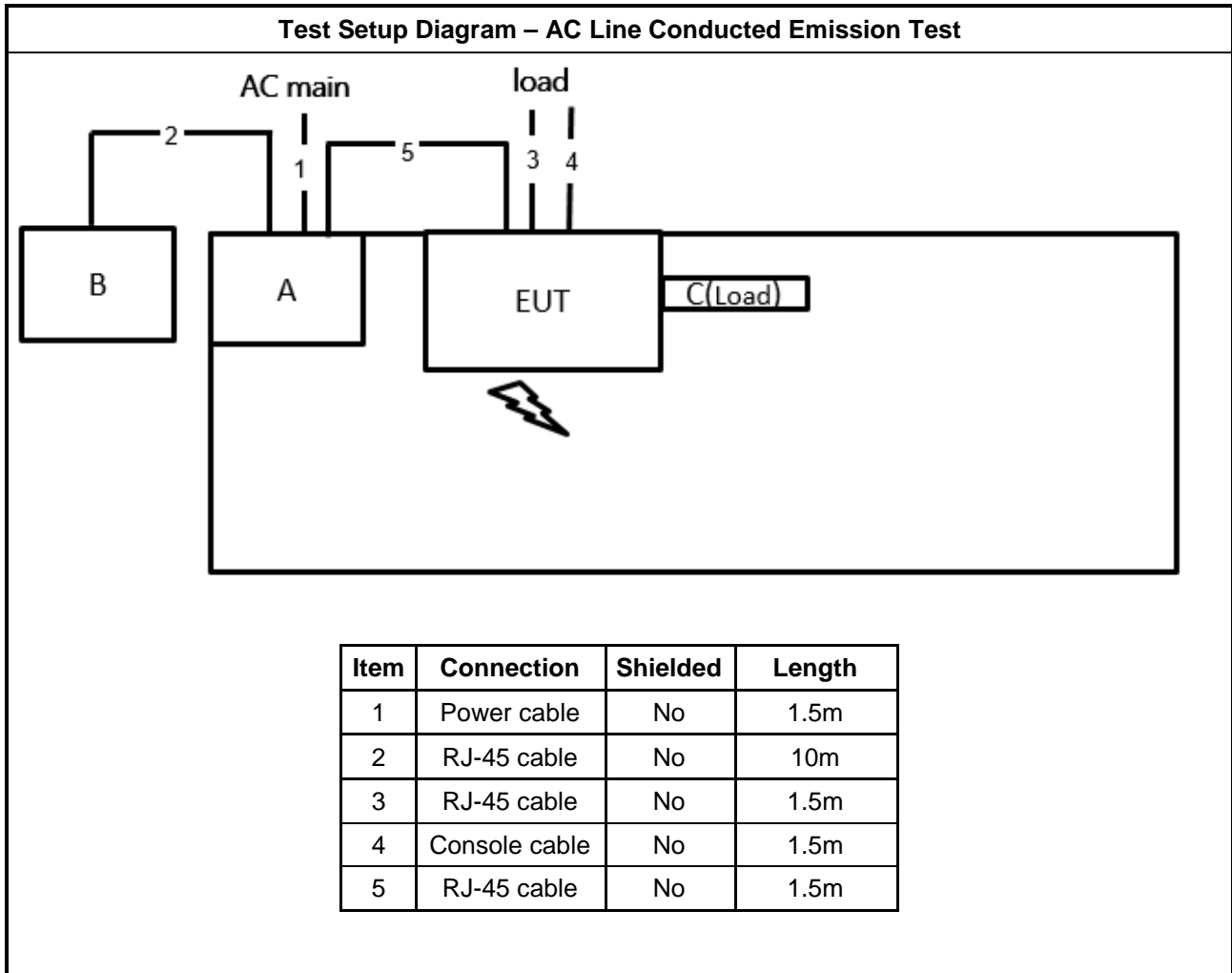
**For RF Conducted / Non-beamforming mode:**

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	Lenovo	L440	N/A
B	PoE 2	PHIHONG	POE29U-1AT(PL)	N/A

**For RF Conducted / Beamforming mode:**

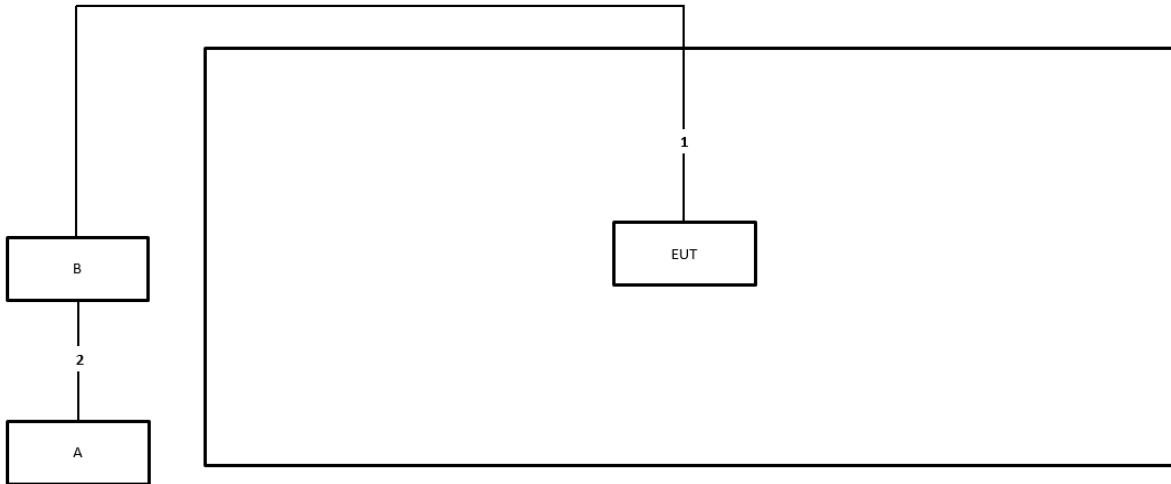
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Notebook	Lenovo	L440	N/A
B	PoE 2	PHIHONG	POE29U-1AT(PL)	N/A
C	Client	CISCO	R7AQ-C1	UDX-600200010
D	Notebook	Lenovo	L440	N/A

## 2.6 Test Setup Diagram



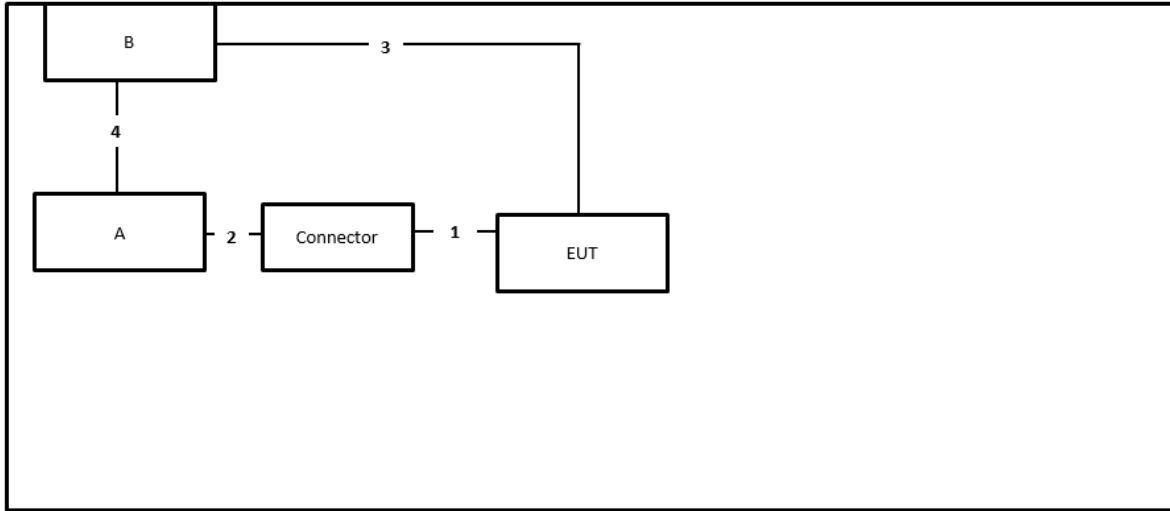


**Test Setup Diagram - Radiated Test < 1GHz**



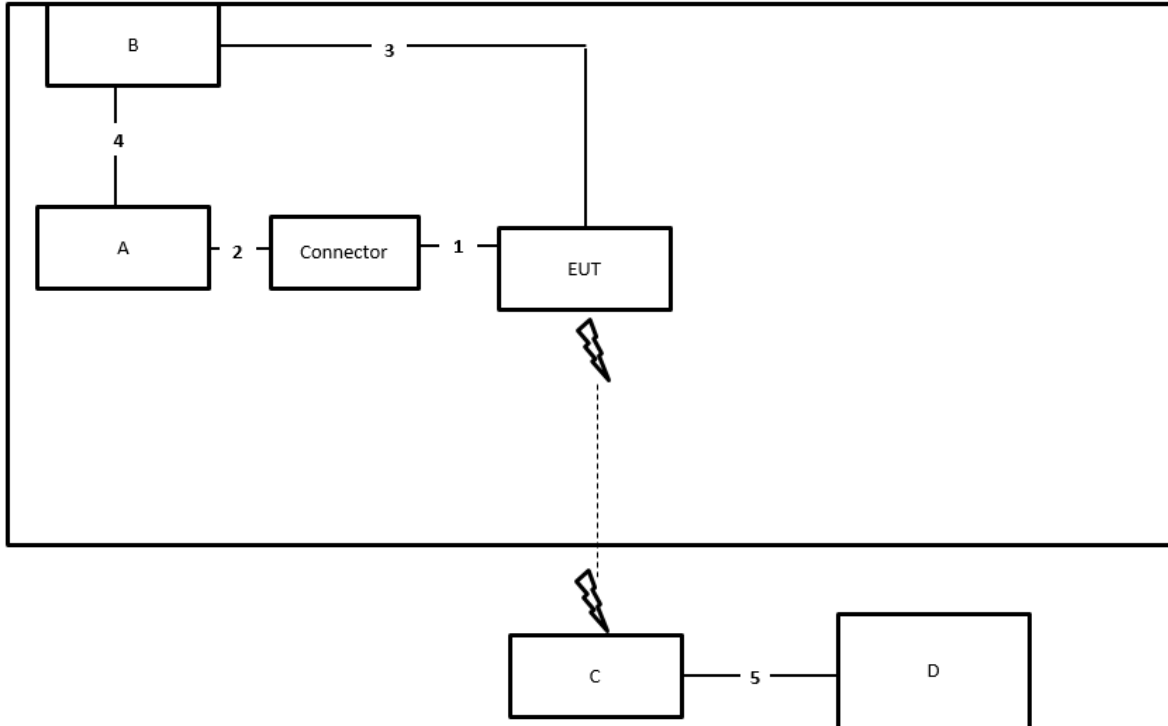
Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	1m

**Test Setup Diagram - Radiated Test > 1GHz / Non-beamforming mode**



Item	Connection	Shielded	Length
1	Console cable (RS232 to RJ45)	No	1m
2	Console cable (RS232 to USB)	No	1m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	1m

**Test Setup Diagram - Radiated Test > 1GHz / Beamforming mode**



Item	Connection	Shielded	Length
1	Console cable (RS232 to RJ45)	No	1m
2	Console cable (RS232 to USB)	No	1m
3	RJ-45 cable	No	1m
4	RJ-45 cable	No	1m
5	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

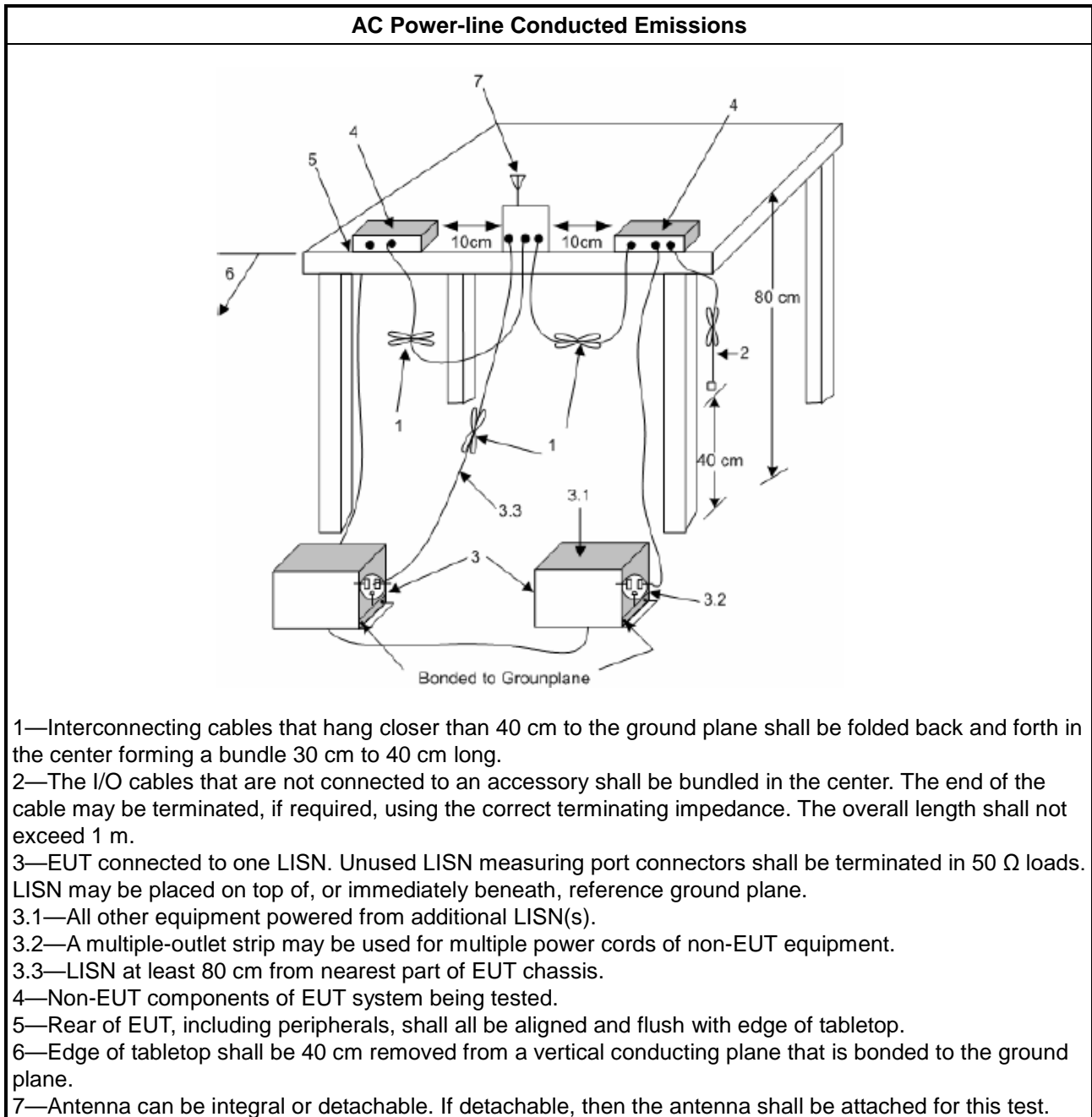
Refer a test equipment and calibration data table in this test report.

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.



### 3.1.4 Test Setup



### 3.1.5 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

### 3.2 Emission Bandwidth

#### 3.2.1 Emission Bandwidth Limit

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

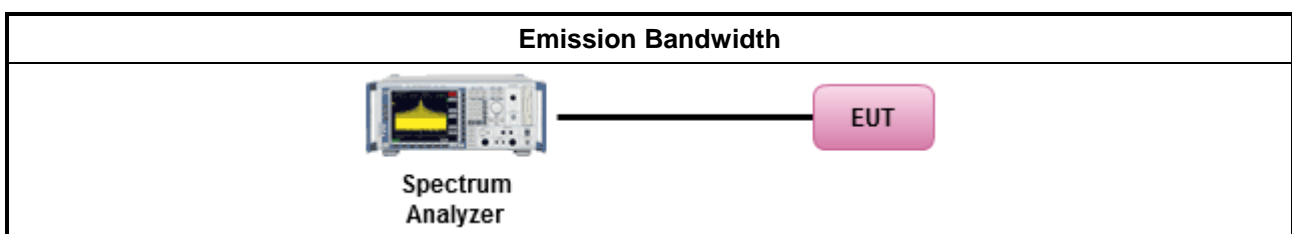
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method							
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:           <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20px;"><input checked="" type="checkbox"/></td> <td>Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.</td> </tr> </table> </li> </ul>		<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.	<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.	<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause C for EBW and clause D for OBW measurement.						
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.						
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for bandwidth testing.						

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B



### 3.3 Maximum Output Power

#### 3.3.1 Limit

Maximum Output Power Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> </ul>
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>The maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>For other devices: The maximum e.i.r.p. shall not exceed 200 mW or <math>10 + 10 \log B</math>, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.</li> <li>Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or <math>1.76 + 10 \log B</math>, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.</li> </ul>
<input type="checkbox"/>	For the 5.25-5.35 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>For other devices: The maximum conducted output power shall not exceed 250 mW or <math>11 + 10 \log 10 B</math>, dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or <math>17 + 10 \log B</math>, dBm, whichever power is less. B is the 99% emission bandwidth in MHz</li> <li>Vehicles devices: The maximum e.i.r.p. shall not exceed 30 mW or <math>1.76 + 10 \log B</math>, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.</li> </ul>
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum conducted output power shall not exceed 250 mW or $11 + 10 \log 10 B$ , dBm, and the maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log B$ , dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>The maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> </ul>
$P_{Out}$ = maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

#### 3.3.2 Measuring Instruments

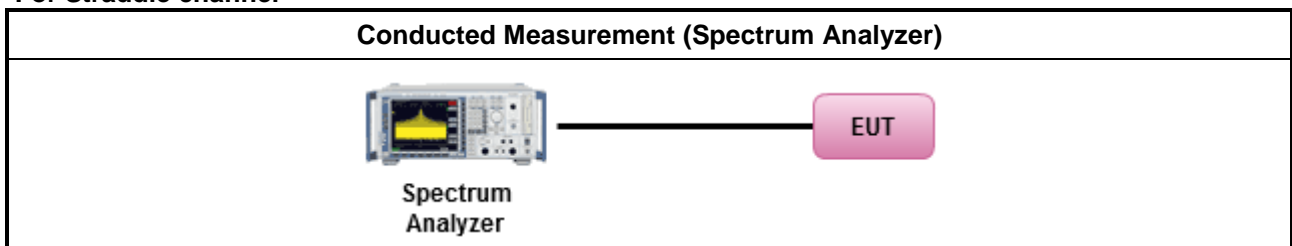
Refer a test equipment and calibration data table in this test report.

**3.3.3 Test Procedures**

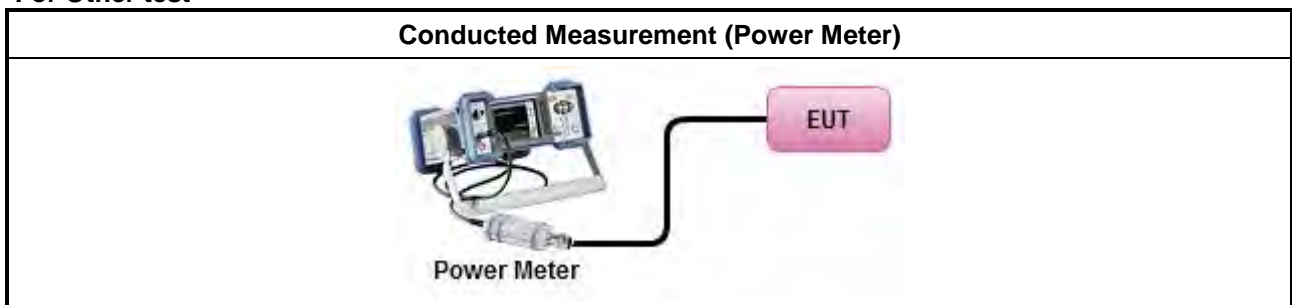
Test Method	
	Average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
	Wideband RF power meter and average over on/off periods with duty factor
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method PM-G (using an RF average power meter).
<input checked="" type="checkbox"/>	For conducted measurement.
	<ul style="list-style-type: none"> <li>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.</li> </ul>
	<ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = P_{total} + DG</math> </li> </ul>
<input type="checkbox"/>	For radiated measurement.
	<ul style="list-style-type: none"> <li>Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"</li> <li>Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> <li>Refer as FCC KDB 412172 D01 clause 2.2 for EIRP calculation.</li> </ul>

**3.3.4 Test Setup**

For Straddle channel



For Other test



**3.3.5 Test Result of Maximum Output Power**

Refer as Appendix C



### 3.4 Power Spectral Density

#### 3.4.1 Limit

Peak Power Spectral Density Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> </ul>
<input checked="" type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .
<input checked="" type="checkbox"/>	For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>The peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/>	For the 5.15-5.25 GHz band, the e.i.r.p. peak power spectral density (PPSD) $\leq 10$ dBm/MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz.
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where <math>\theta</math> is the angle above the local horizontal plane (of the Earth) as shown below:            -13 dBW/MHz for <math>0^\circ \leq \theta &lt; 8^\circ</math> ; -13 - 0.716 (<math>\theta</math>-8) dBW/MHz for <math>8^\circ \leq \theta &lt; 40^\circ</math>            -35.9 - 1.22 (<math>\theta</math>-40) dBW/MHz for <math>40^\circ \leq \theta \leq 45^\circ</math> ; -42 dBW/MHz for <math>\theta &gt; 45^\circ</math></li> </ul>
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz.
<input type="checkbox"/>	For the 5.725-5.85 GHz band:
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>The peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> </ul>
<p><b>PPSD</b> = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz  <b>G<sub>TX</sub></b> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.4.2 Measuring Instruments

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



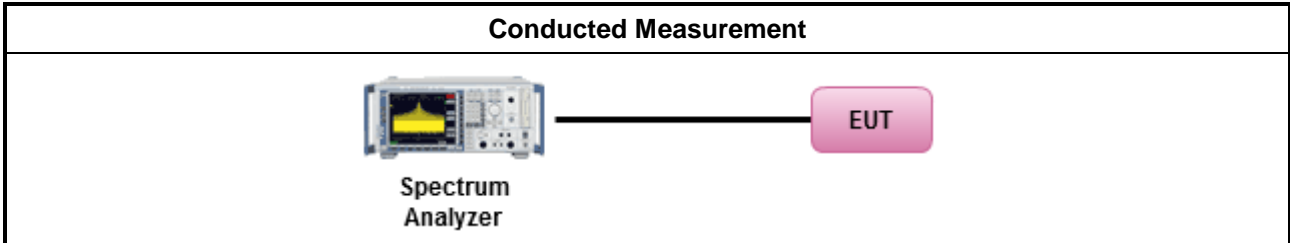
**3.4.3 Test Procedures**

Test Method	
<ul style="list-style-type: none"> <li>▪ Peak power spectral density procedures that the same method as used to determine the conducted output power shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:</li> </ul>	
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth [duty cycle ≥ 98% or external video / power trigger]
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-1 Alt. (RMS detection with slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<input checked="" type="checkbox"/> For conducted measurement.	
<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below:</li> </ul>	
<input checked="" type="checkbox"/>	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.
<input type="checkbox"/>	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,
<input type="checkbox"/>	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.
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods:  <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math>            (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>	
<input type="checkbox"/> For radiated measurement.	
<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02 clause II A.1.F "Antenna-port Conducted versus Radiated Testing"</li> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>	



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

### 3.4.4 Test Setup



### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D



### 3.5 Unwanted Emissions

#### 3.5.1 Transmitter Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

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

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

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

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

Note 1: Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of





linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

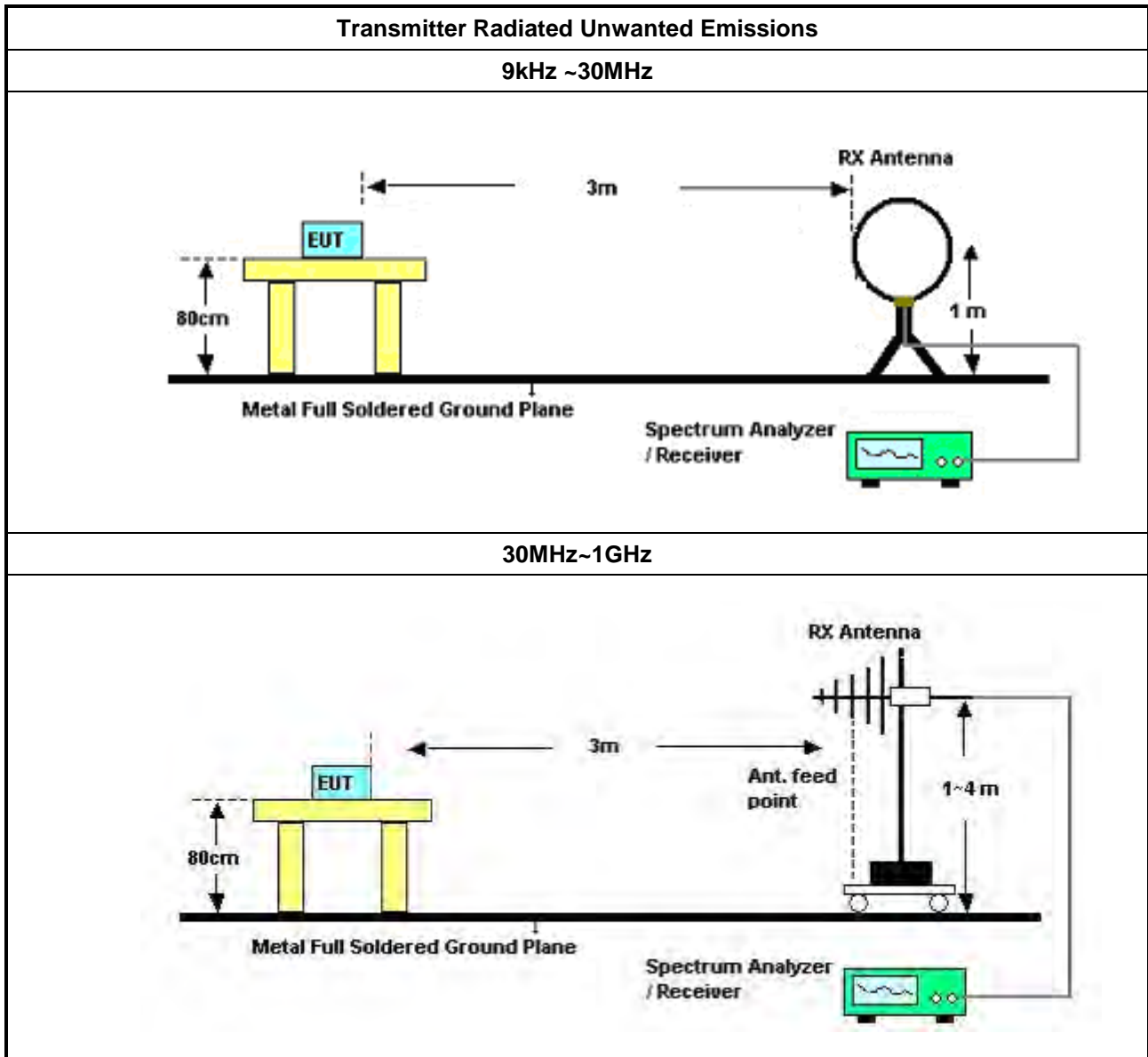
**3.5.2 Measuring Instruments**

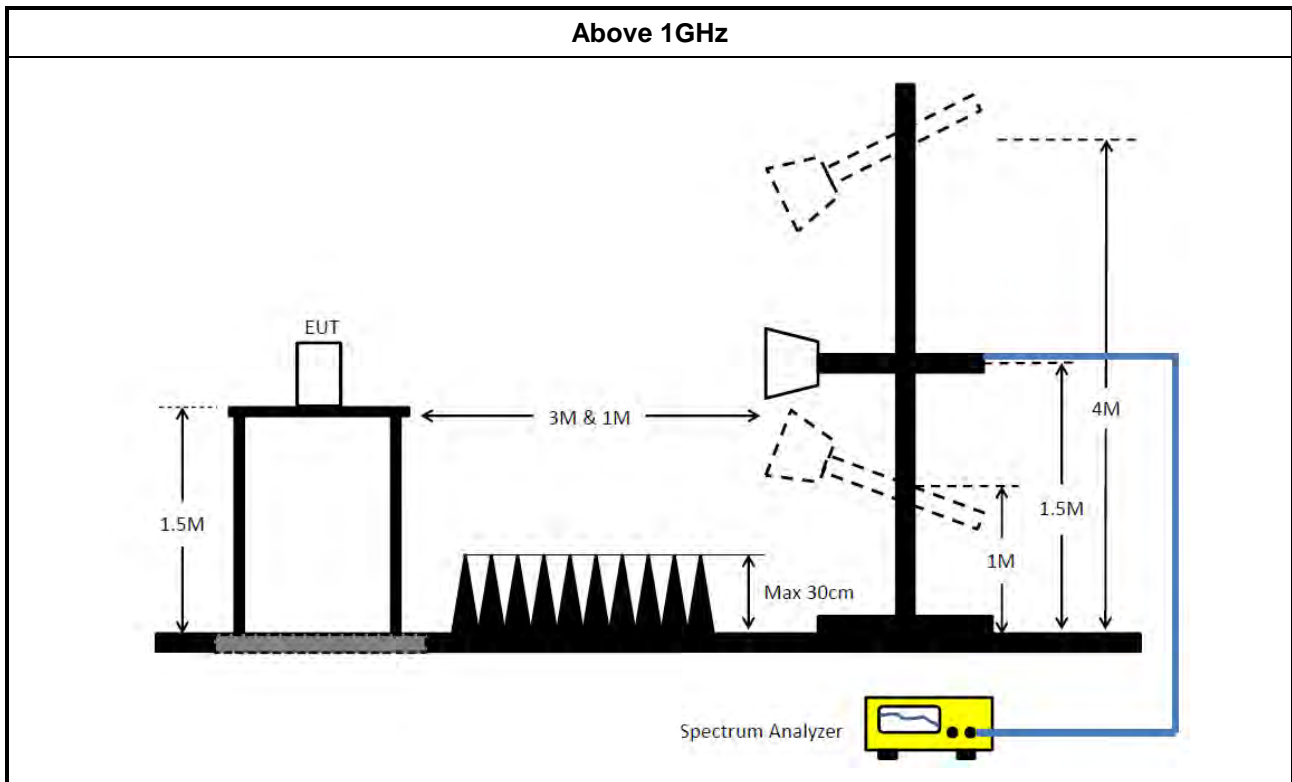
Refer a test equipment and calibration data table in this test report.

**3.5.3 Test Procedures**

<b>Test Method</b>	
<ul style="list-style-type: none"> <li>▪ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).</li> </ul>	
<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].</li> </ul>	
<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)2) for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033 D02, clause G)1) for unwanted emissions into restricted bands.</li> </ul>
<input type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method AD (Trace Averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, G)6) Method VB (Reduced VBW).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033 D02, clause G)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For radiated measurement.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>
<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>	

### 3.5.4 Test Setup





### 3.5.5 Measurement Results Calculation

The measured Level is calculated using:

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

### 3.5.6 Transmitter Unwanted Emissions (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

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

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

### 3.5.7 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E



## 4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Mar. 01, 2024	Feb. 28, 2025	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-5 0-16-2	04083	150kHz ~ 100MHz	Feb. 19, 2024	Feb. 18, 2025	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 24, 2024	Apr. 23, 2025	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 08, 2024	Feb. 07, 2025	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	Oct. 17, 2023	Oct. 16, 2024	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6121	65417	9kHz - 30 MHz	Oct. 13, 2023	Oct. 12, 2024	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 02, 2023	Aug. 01, 2024	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 23, 2024	Mar. 22, 2025	Radiation (03CH05-CB)
Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	May 02, 2024	May 01, 2025	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 17, 2024	Apr. 16, 2025	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 13, 2023	Jun. 12, 2024	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Dec. 06, 2023	Dec. 05, 2024	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 05, 2023	May 04, 2024	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 04, 2024	May 03, 2025	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120D-01816	1GHz~18GHz	Dec. 20, 2023	Dec. 19, 2024	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 18, 2023	May 17, 2024	Radiation (03CH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 17, 2024	May 16, 2025	Radiation (03CH01-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH01-CB)
Signal Analyzer	R&S	FSV3044	101437	10kHz ~ 44GHz	Nov. 28, 2023	Nov. 27, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Nov. 06, 2023	Nov. 05, 2024	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	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. 25, 2023	Mar. 24, 2024	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 24, 2024	Mar. 23, 2025	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 18, 2023	Apr. 17, 2024	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 12, 2024	Apr. 11, 2025	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH02-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Jul. 24, 2023	Jul. 23, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 02, 2023	Oct. 01, 2024	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	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 04, 2023	May 03, 2024	Radiation (03CH03-CB)



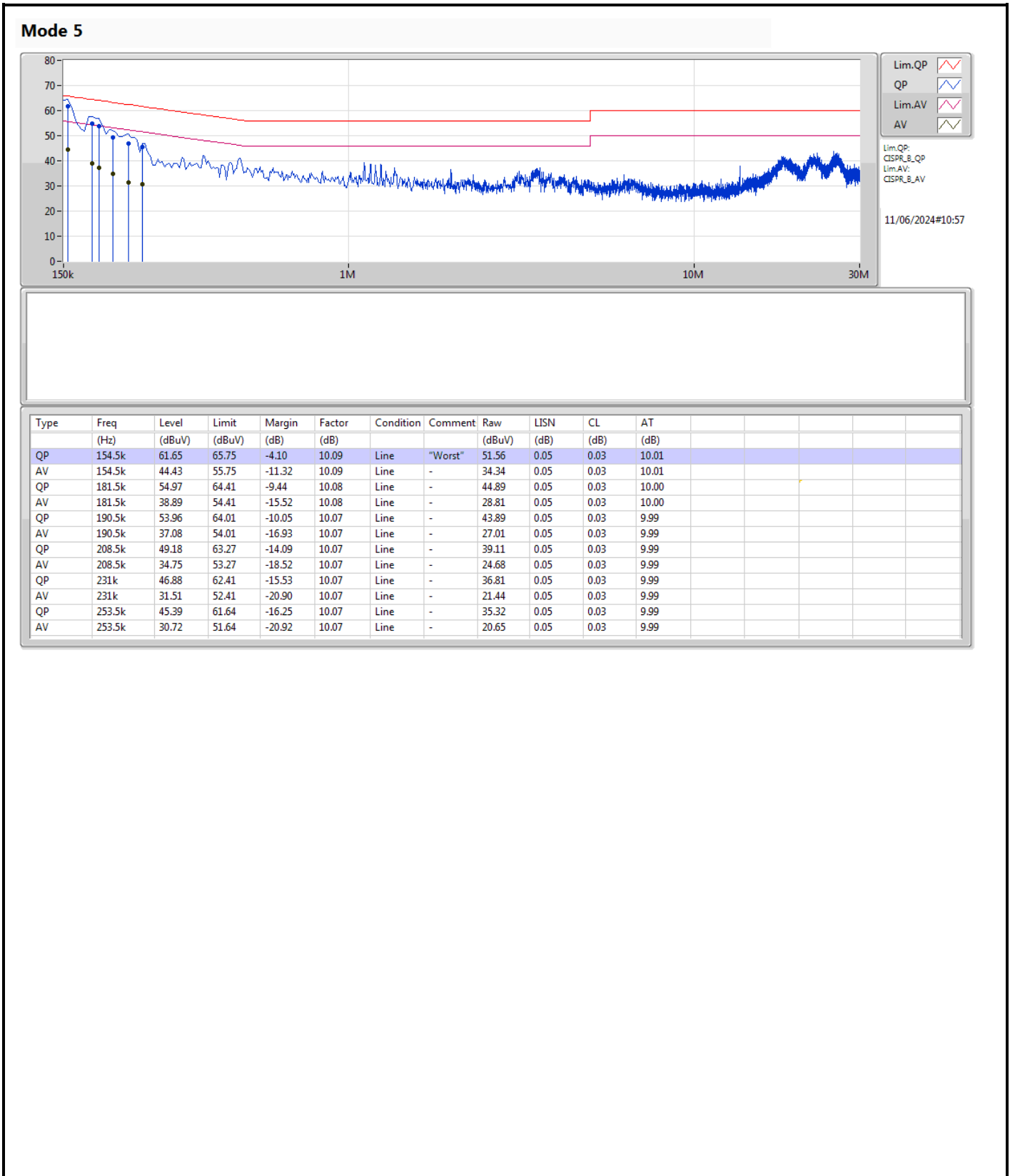
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 03, 2024	May 02, 2025	Radiation (03CH03-CB)
Horn Antenna	ETS-Lindgren	3115	6821	750MHz~18GHz	Jan. 24, 2024	Jan. 23, 2025	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Sep. 04, 2023	Sep. 03, 2024	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jun. 30, 2023	Jun. 29, 2024	Radiation (03CH03-CB)
Pre-Amplifier	SGH	SGH184	20221107-3	18GHz ~ 40GHz	Nov. 24, 2023	Nov. 23, 2024	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 12, 2023	Jun. 11, 2024	Radiation (03CH03-CB)
Signal Analyzer	R&S	FSV40	101904	9kHz ~ 40GHz	Apr. 26, 2024	Apr. 25, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Feb. 21, 2024	Feb. 20, 2025	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Feb. 21, 2024	Feb. 20, 2025	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Jan. 11, 2024	Jan. 10, 2025	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	Dec. 22, 2023	Dec. 21, 2024	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1726195	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
Power Meter	Anritsu	ML2495A	1035008	300MHz~40GHz	Sep. 04, 2023	Sep. 03, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz ~18 GHz	Oct. 02, 2023	Oct. 01, 2024	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1 ~26.5 GHz	Oct. 03, 2023	Oct. 02, 2024	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.

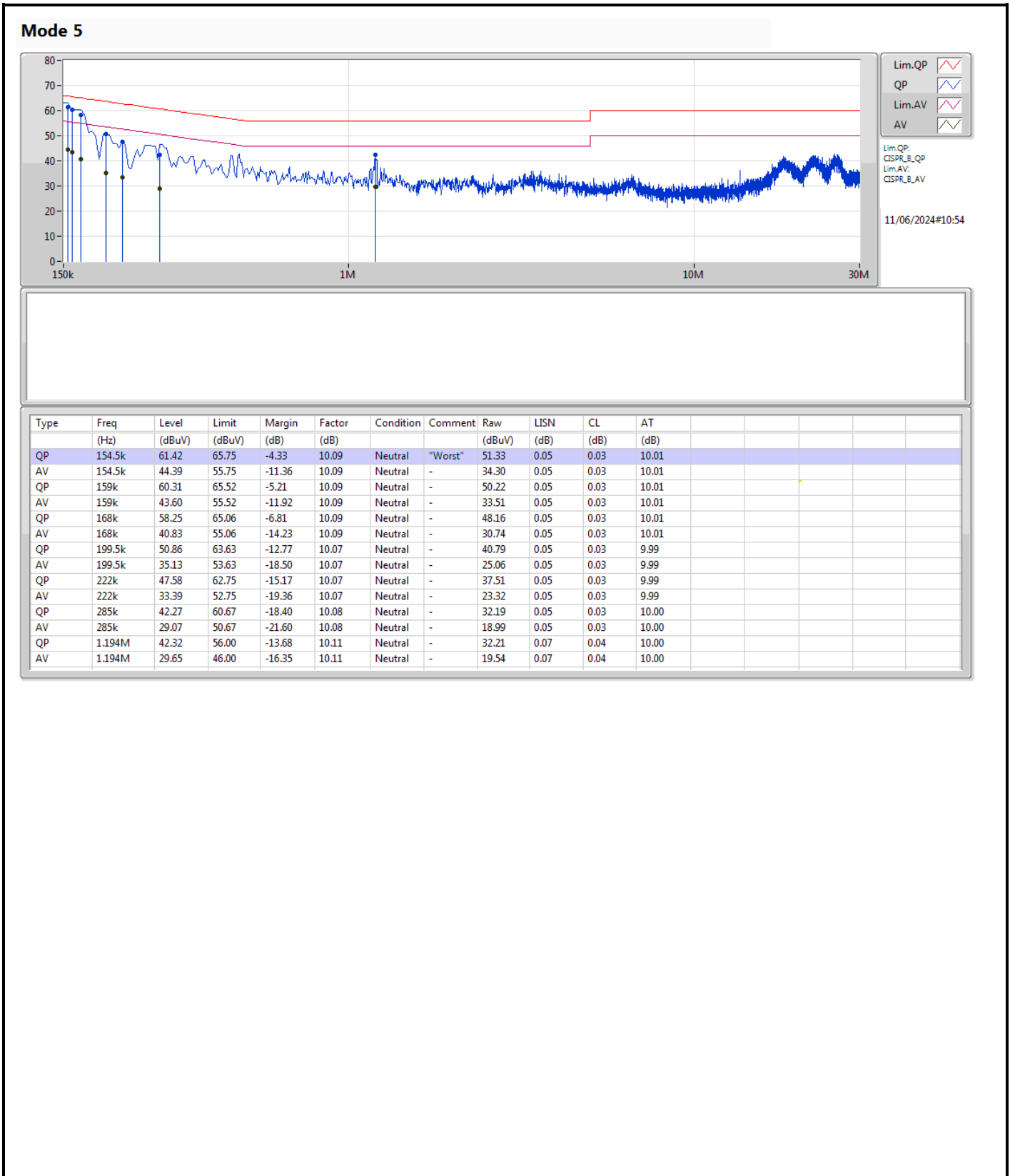


**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 5	Pass	QP	154.5k	61.65	65.75	-4.10	Line







**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	31.13M	17.95M	18M0D1D	22.55M	16.9M
802.11a_Nss1,(6Mbps)_2TX	33.88M	18.53M	18M5D1D	22.385M	16.82M
802.11a_Nss1,(6Mbps)_4TX	34.65M	18.058M	18M1D1D	21.835M	16.549M
802.11be EHT20_Nss1,(MCS0)_1TX	33.22M	19.326M	19M3D1D	22.77M	19.015M
802.11be EHT20_Nss1,(MCS0)_2TX	36.74M	19.764M	19M8D1D	20.845M	19M
802.11be EHT20_Nss1,(MCS0)_4TX	23.485M	19.269M	19M3D1D	21.23M	18.983M
802.11be EHT40_Nss1,(MCS0)_1TX	79.2M	38.597M	38M6D1D	43.89M	38.292M
802.11be EHT40_Nss1,(MCS0)_2TX	66.44M	38.482M	38M5D1D	41.14M	38.002M
802.11be EHT40_Nss1,(MCS0)_4TX	43.01M	38.065M	38M1D1D	40.26M	37.949M
802.11be EHT80_Nss1,(MCS14)_1TX	163.24M	78.182M	78M2D1D	163.24M	78.182M
802.11be EHT80_Nss1,(MCS14)_2TX	166.1M	80.718M	80M7D1D	164.34M	78.244M
802.11be EHT80_Nss1,(MCS14)_4TX	86.9M	77.771M	77M8D1D	80.74M	77.509M
802.11be EHT160_Nss1,(MCS14)_1TX	126.56M	78.388M	78M4D1D	126.56M	78.388M
802.11be EHT160_Nss1,(MCS14)_2TX	135.2M	81.651M	81M7D1D	97.76M	77.826M
802.11be EHT160_Nss1,(MCS14)_4TX	84.88M	77.65M	77M7D1D	80.32M	77.347M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	31.625M	18.282M	18M3D1D	22.44M	16.655M
802.11a_Nss1,(6Mbps)_2TX	23.045M	16.957M	17M0D1D	21.34M	16.712M
802.11a_Nss1,(6Mbps)_4TX	22.825M	16.94M	16M9D1D	20.735M	16.538M
802.11be EHT20_Nss1,(MCS0)_1TX	37.73M	19.362M	19M4D1D	21.89M	18.979M
802.11be EHT20_Nss1,(MCS0)_2TX	24.035M	19.163M	19M2D1D	21.67M	19.042M
802.11be EHT20_Nss1,(MCS0)_4TX	22.55M	19.196M	19M2D1D	20.79M	18.97M
802.11be EHT40_Nss1,(MCS0)_1TX	70.95M	38.446M	38M4D1D	62.59M	38.234M
802.11be EHT40_Nss1,(MCS0)_2TX	44M	37.995M	38M0D1D	42.24M	37.876M
802.11be EHT40_Nss1,(MCS0)_4TX	44.66M	38.037M	38M0D1D	40.59M	37.774M
802.11be EHT80_Nss1,(MCS14)_1TX	134.64M	78.488M	78M5D1D	134.64M	78.488M
802.11be EHT80_Nss1,(MCS14)_2TX	85.14M	77.516M	77M5D1D	84.48M	77.511M
802.11be EHT80_Nss1,(MCS14)_4TX	84.48M	77.517M	77M5D1D	81.84M	77.087M
802.11be EHT160_Nss1,(MCS14)_1TX	130.48M	78.081M	78M1D1D	130.48M	78.081M
802.11be EHT160_Nss1,(MCS14)_2TX	138.24M	83.748M	83M7D1D	128.32M	77.713M
802.11be EHT160_Nss1,(MCS14)_4TX	82.32M	77.314M	77M3D1D	80M	76.999M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.55M	16.9M						
5200MHz	Pass	Inf	31.13M	17.95M						
5240MHz	Pass	Inf	28.6M	17.173M						
5260MHz	Pass	Inf	27.335M	17.254M						
5300MHz	Pass	Inf	31.625M	18.282M						
5320MHz	Pass	Inf	22.44M	16.655M						
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.77M	19.015M						
5200MHz	Pass	Inf	33.22M	19.326M						
5240MHz	Pass	Inf	26.62M	19.1M						
5260MHz	Pass	Inf	32.23M	19.139M						
5300MHz	Pass	Inf	37.73M	19.362M						
5320MHz	Pass	Inf	21.89M	18.979M						
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	79.2M	38.597M						
5230MHz	Pass	Inf	43.89M	38.292M						
5270MHz	Pass	Inf	70.95M	38.446M						
5310MHz	Pass	Inf	62.59M	38.234M						
802.11be EHT80_Nss1,(MCS14)_1TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	163.24M	78.182M						
5290MHz	Pass	Inf	134.64M	78.488M						
802.11be EHT160_Nss1,(MCS14)_1TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	126.56M	78.388M						
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	130.48M	78.081M						
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	22.385M	16.983M	23.21M	17.02M				
5200MHz	Pass	Inf	30.635M	17.934M	33.88M	18.53M				
5240MHz	Pass	Inf	27.995M	16.82M	29.755M	17.227M				
5260MHz	Pass	Inf	22.385M	16.78M	21.835M	16.712M				
5300MHz	Pass	Inf	22.275M	16.957M	23.045M	16.871M				
5320MHz	Pass	Inf	21.34M	16.782M	22.055M	16.723M				
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	20.845M	19M	22.055M	19.012M				
5200MHz	Pass	Inf	33.66M	19.28M	36.74M	19.764M				
5240MHz	Pass	Inf	28.93M	19.26M	28.435M	19.207M				
5260MHz	Pass	Inf	21.835M	19.163M	21.78M	19.109M				
5300MHz	Pass	Inf	22.66M	19.092M	24.035M	19.109M				
5320MHz	Pass	Inf	21.67M	19.052M	22.275M	19.042M				
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.14M	38.189M	50.93M	38.002M				
5230MHz	Pass	Inf	48.4M	38.131M	66.44M	38.482M				
5270MHz	Pass	Inf	42.24M	37.945M	42.46M	37.876M				
5310MHz	Pass	Inf	43.23M	37.995M	44M	37.931M				
802.11be EHT80_Nss1,(MCS14)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	166.1M	80.718M	164.34M	78.244M				
5290MHz	Pass	Inf	85.14M	77.511M	84.48M	77.516M				
802.11be EHT160_Nss1,(MCS14)_2TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	97.76M	77.826M	135.2M	81.651M				
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	128.32M	77.713M	138.24M	83.748M				
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.89M	16.685M	23.1M	16.646M	21.835M	16.549M	22M	16.603M
5200MHz	Pass	Inf	34.65M	17.16M	27.115M	18.058M	30.415M	17.336M	25.685M	16.859M
5240MHz	Pass	Inf	22.66M	16.903M	22.495M	16.829M	22.88M	16.678M	22.77M	16.654M
5260MHz	Pass	Inf	21.56M	16.708M	20.9M	16.691M	22.055M	16.676M	21.615M	16.63M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5300MHz	Pass	Inf	20.735M	16.936M	22.275M	16.778M	21.78M	16.538M	22.055M	16.687M
5320MHz	Pass	Inf	22.825M	16.585M	22.275M	16.622M	22.11M	16.625M	22.77M	16.94M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.1M	18.983M	21.945M	19.019M	21.23M	19.049M	21.89M	19.159M
5200MHz	Pass	Inf	22.66M	19.086M	22.605M	19.212M	23.485M	19.145M	22.935M	19.269M
5240MHz	Pass	Inf	22.385M	19.136M	23.21M	19.258M	22.66M	19.141M	22.385M	19.064M
5260MHz	Pass	Inf	21.175M	19.006M	21.285M	19.027M	21.175M	19.029M	20.79M	18.97M
5300MHz	Pass	Inf	21.45M	19.027M	20.9M	19.042M	21.89M	19.012M	21.23M	19.103M
5320MHz	Pass	Inf	22.55M	18.972M	22.165M	19.196M	20.845M	19.135M	21.065M	18.979M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.14M	37.998M	43.01M	37.972M	42.02M	37.949M	40.26M	38.003M
5230MHz	Pass	Inf	40.59M	38.015M	42.02M	38.024M	42.02M	38.065M	42.57M	38.032M
5270MHz	Pass	Inf	42.79M	38.001M	41.25M	37.881M	42.9M	38.037M	42.02M	37.959M
5310MHz	Pass	Inf	40.92M	37.806M	41.8M	37.774M	44.66M	37.847M	40.59M	37.95M
802.11be EHT80_Nss1,(MCS14)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	86.9M	77.619M	80.74M	77.771M	82.06M	77.509M	82.94M	77.726M
5290MHz	Pass	Inf	83.82M	77.087M	82.72M	77.517M	84.48M	77.463M	81.84M	77.466M
802.11be EHT160_Nss1,(MCS14)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	82.48M	77.65M	84.88M	77.347M	80.32M	77.529M	80.4M	77.578M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.08M	77.314M	82.32M	77.294M	80M	77.172M	80.24M	76.999M

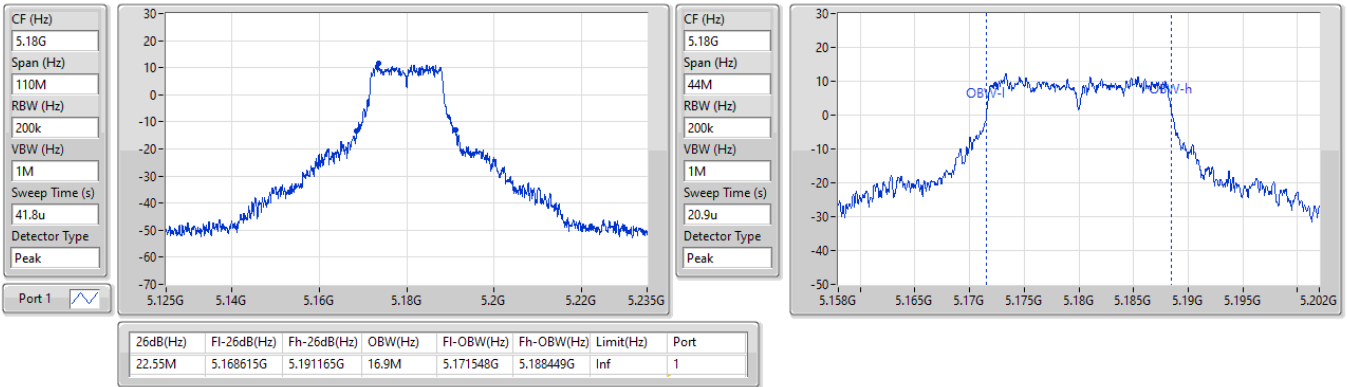
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
 Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5180MHz

22/03/2024

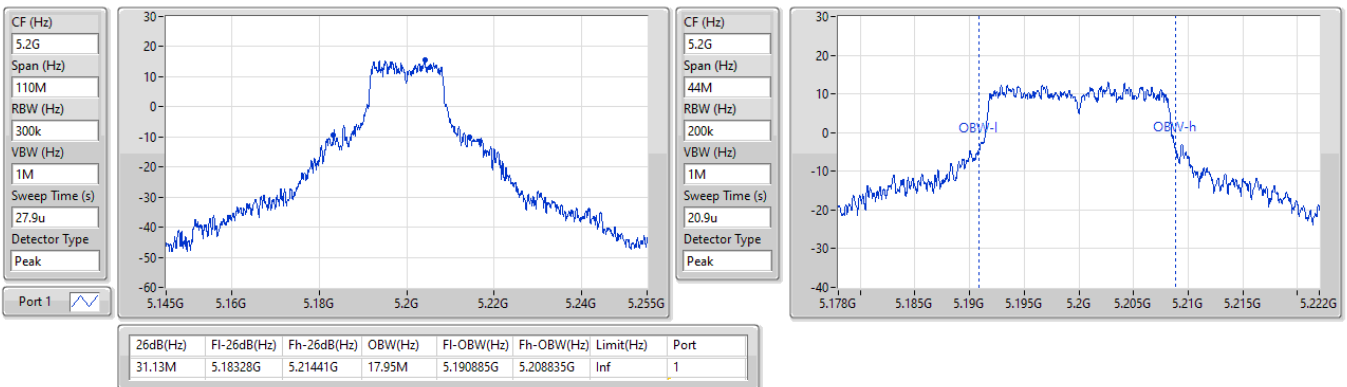


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5200MHz

22/03/2024

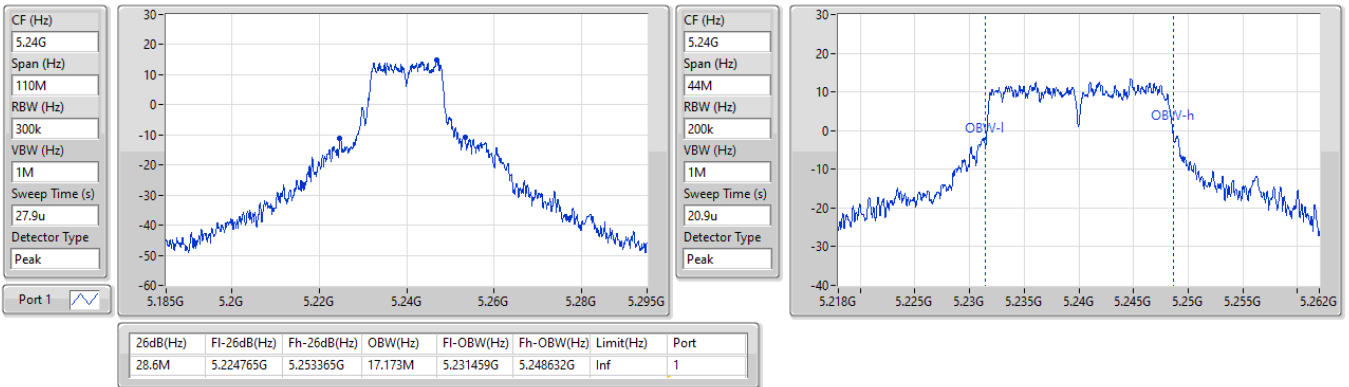


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5240MHz

22/03/2024

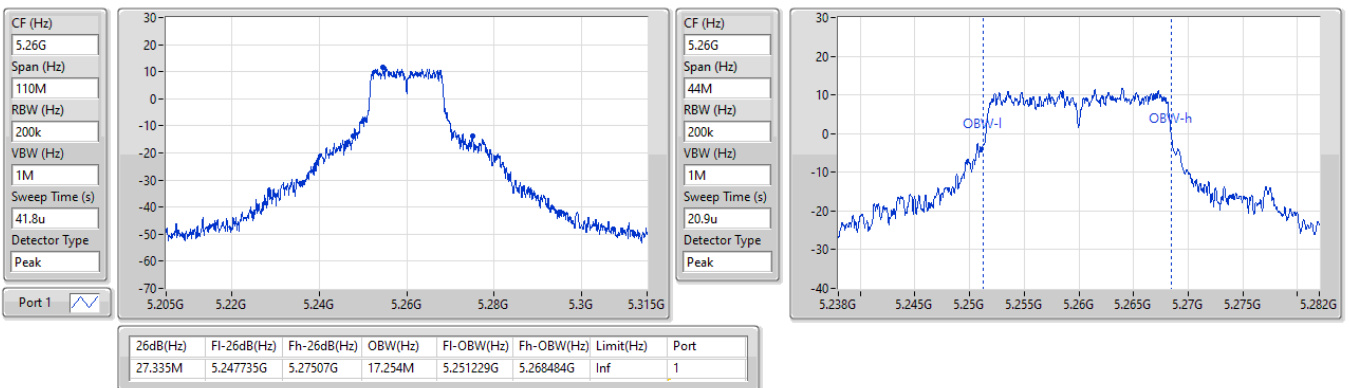


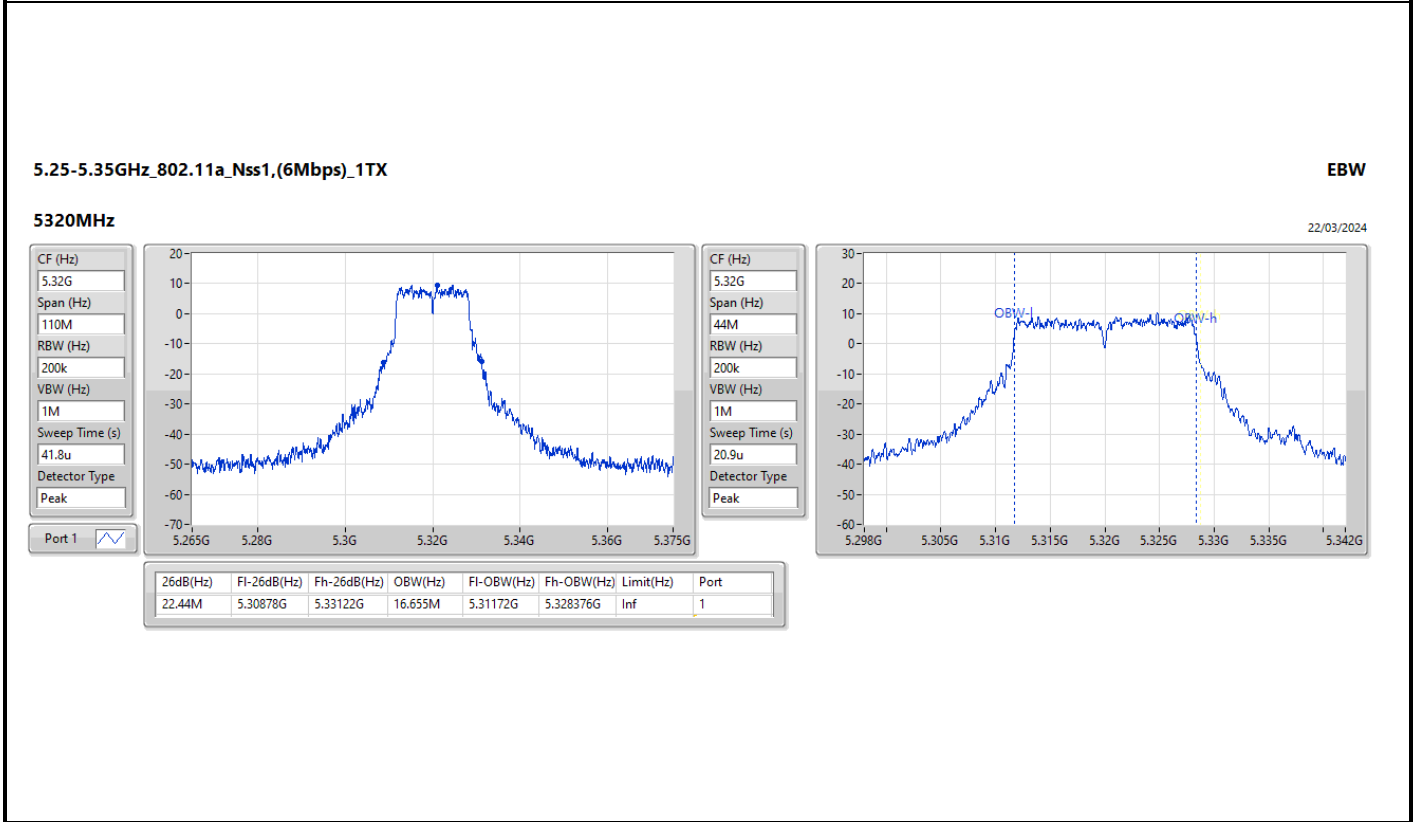
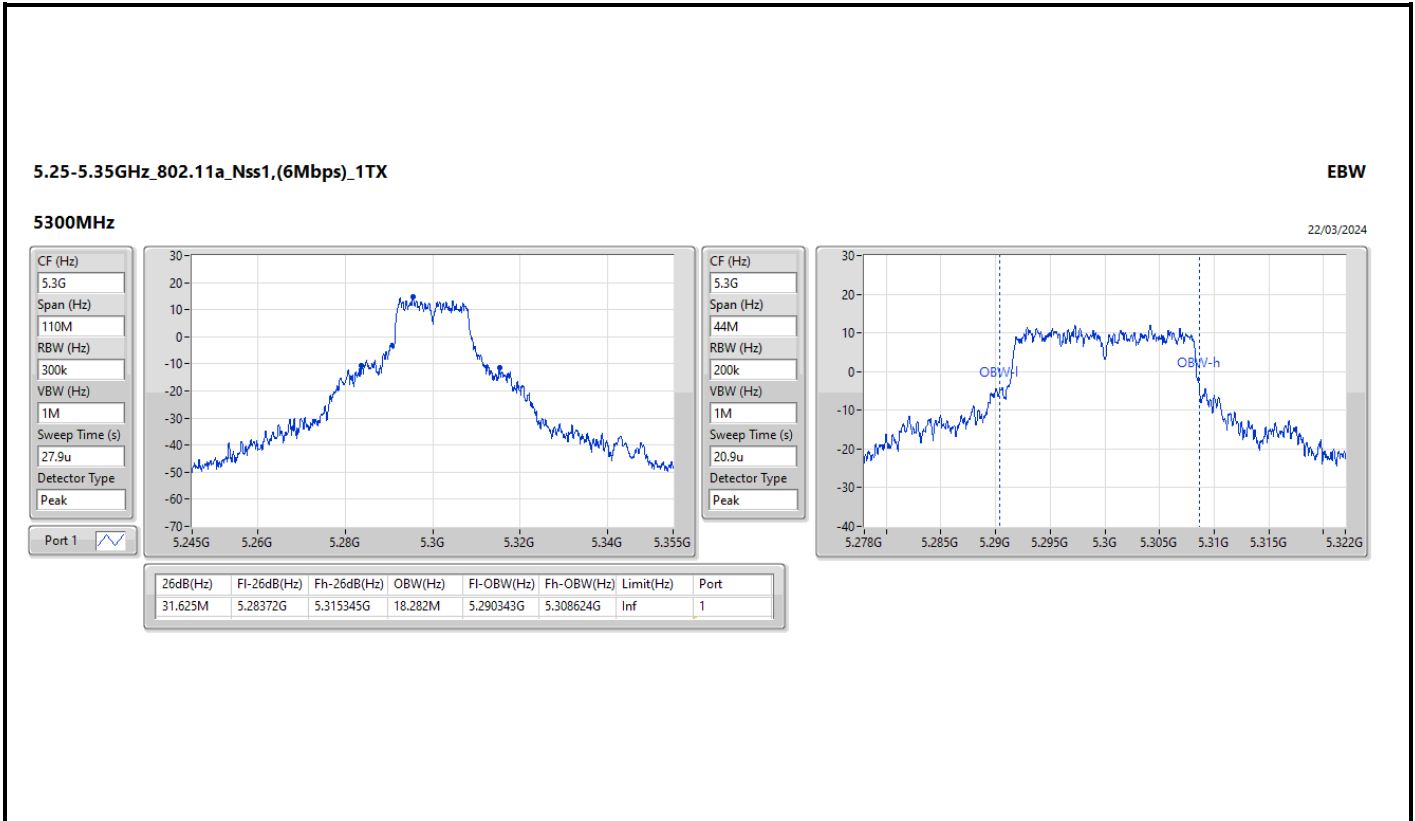
5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_1TX

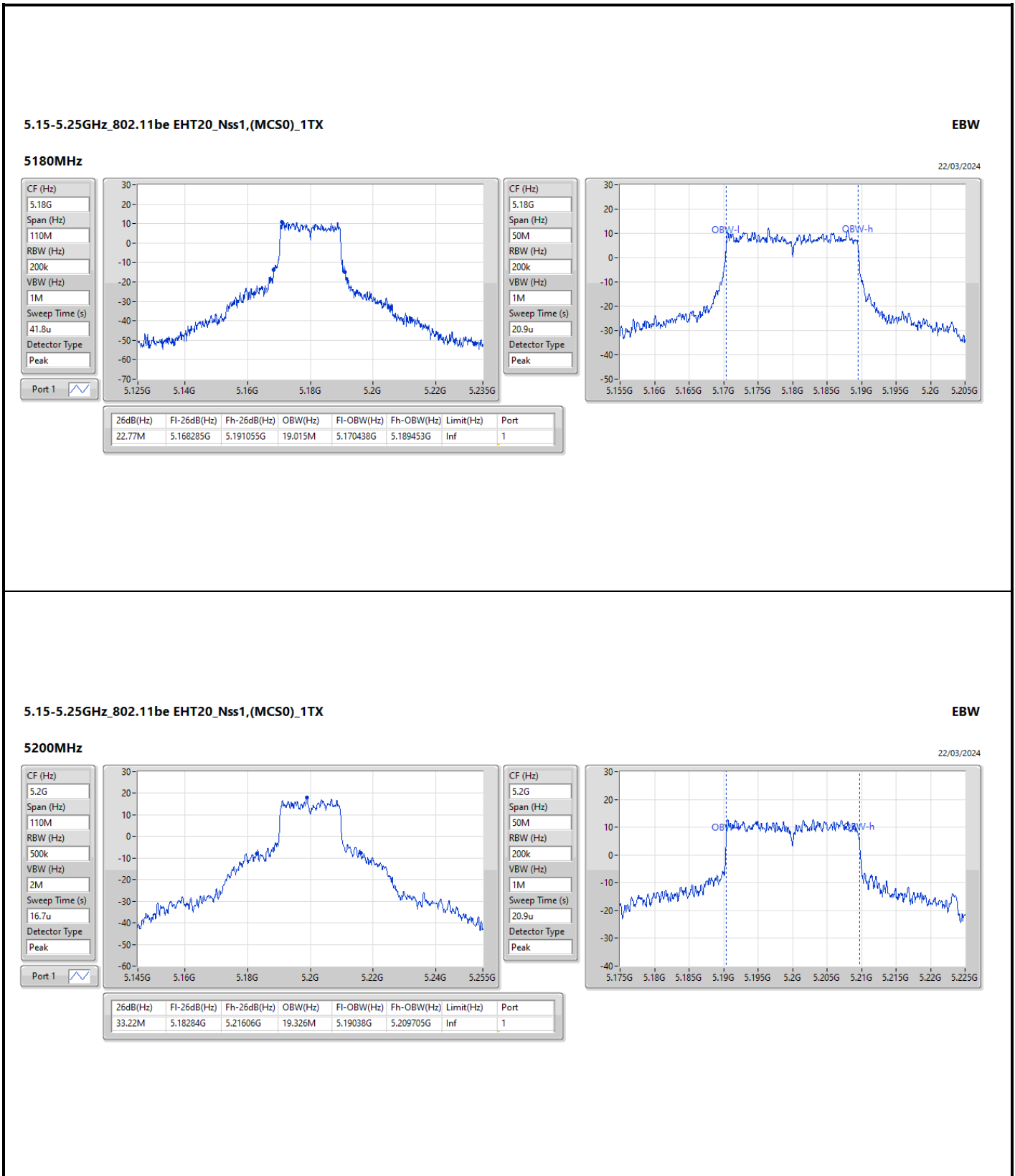
EBW

5260MHz

22/03/2024







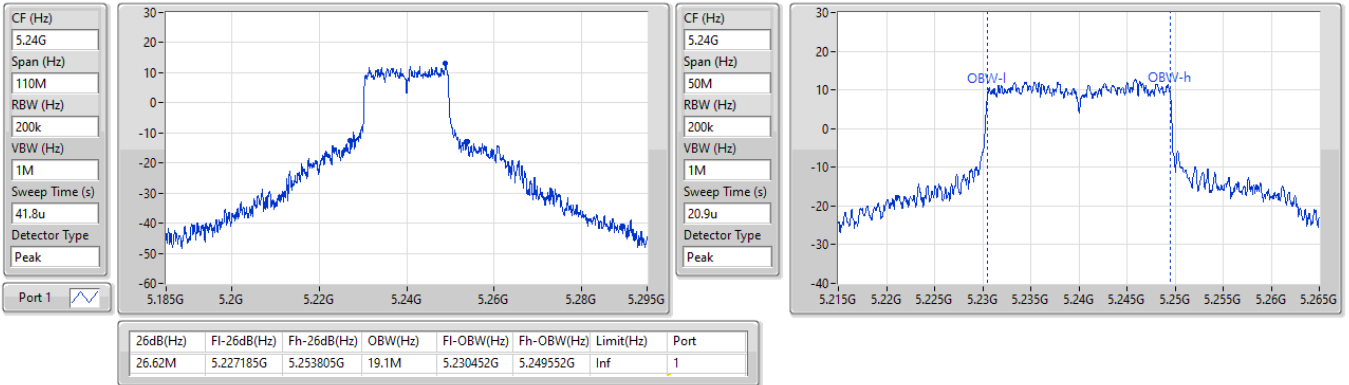


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5240MHz

22/03/2024

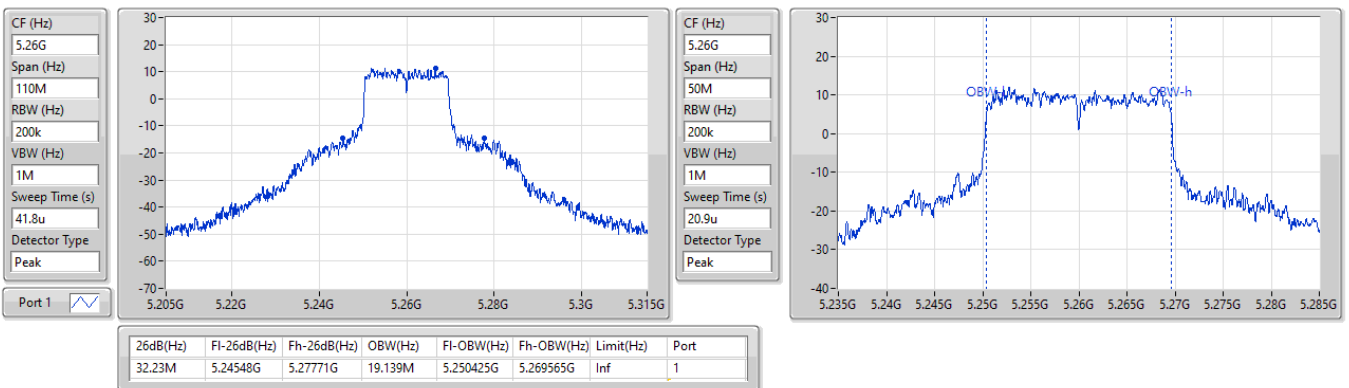


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5260MHz

22/03/2024

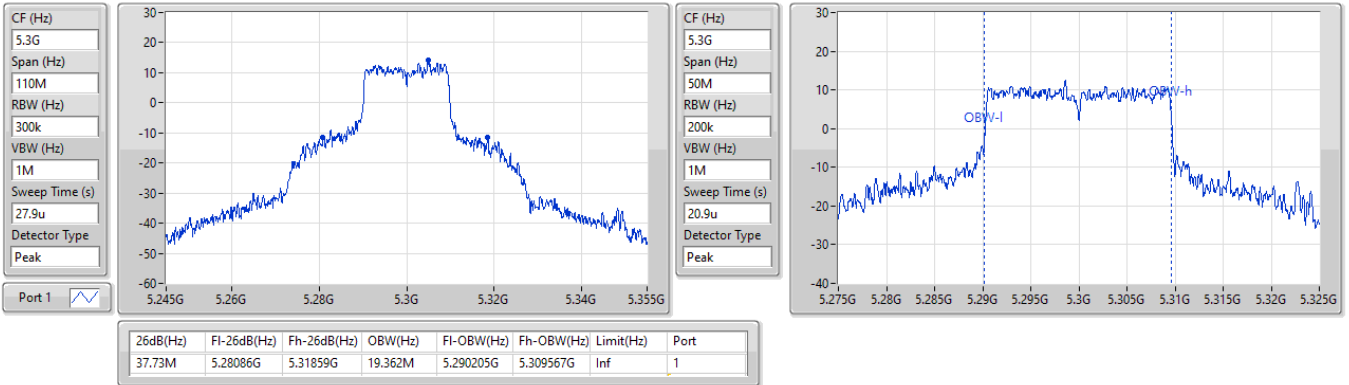


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5300MHz

22/03/2024

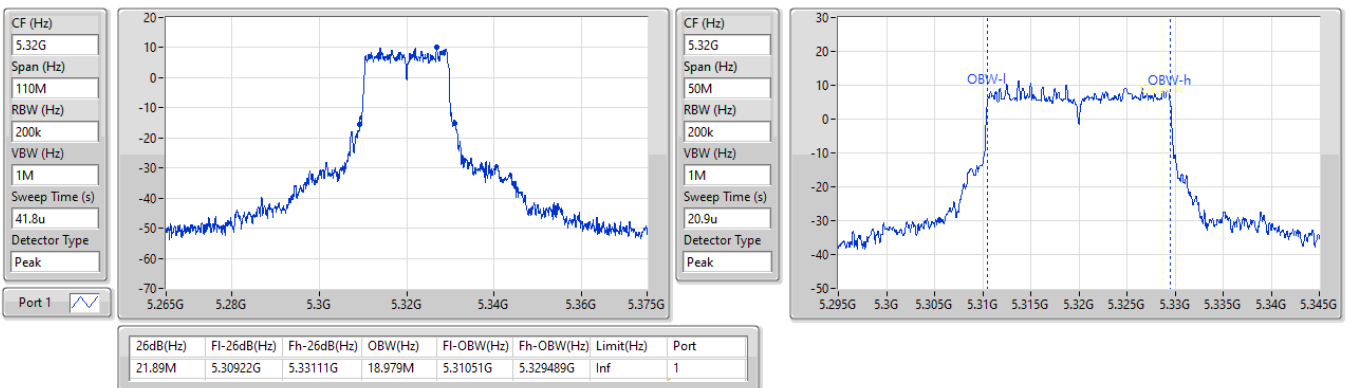


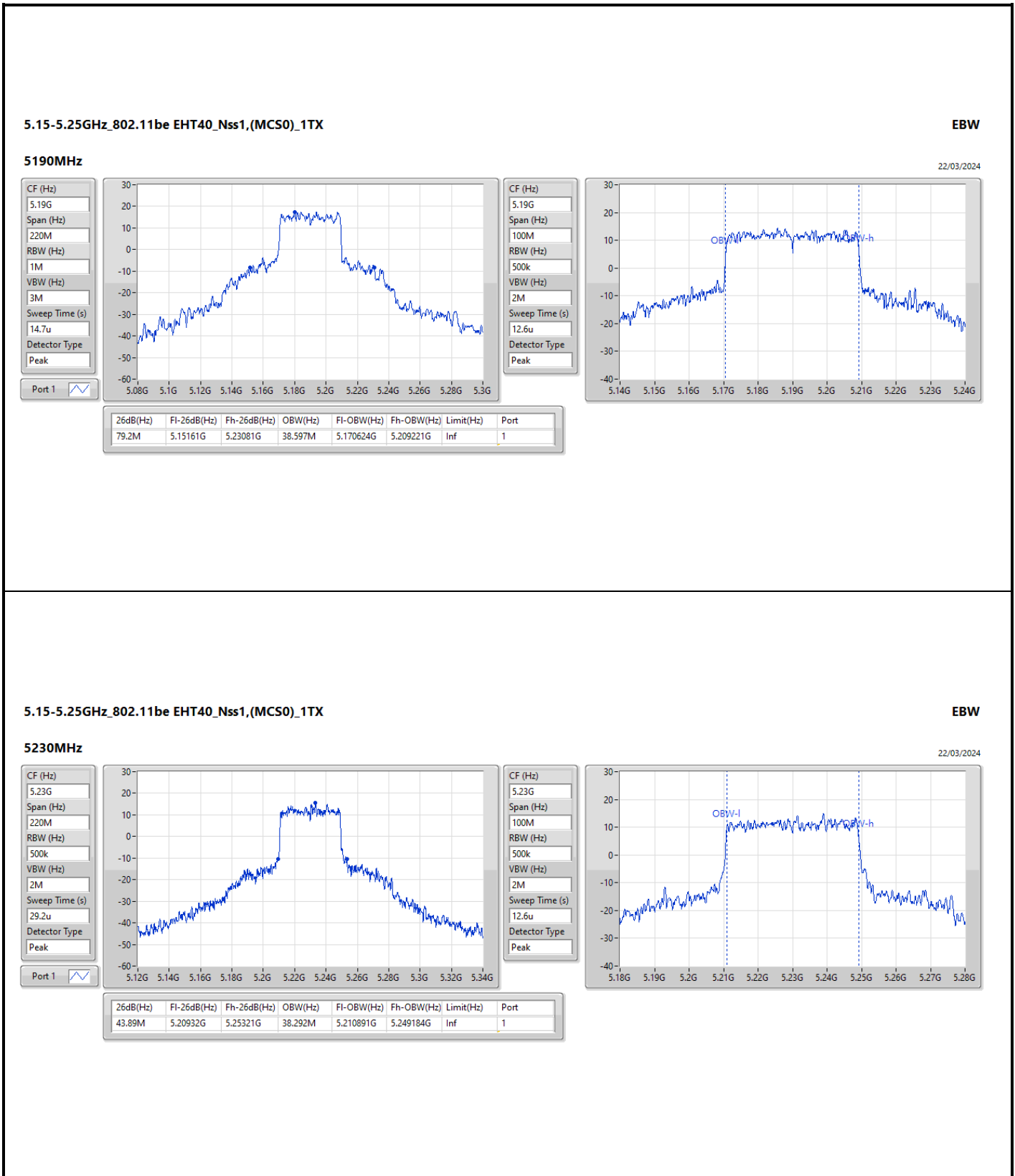
5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

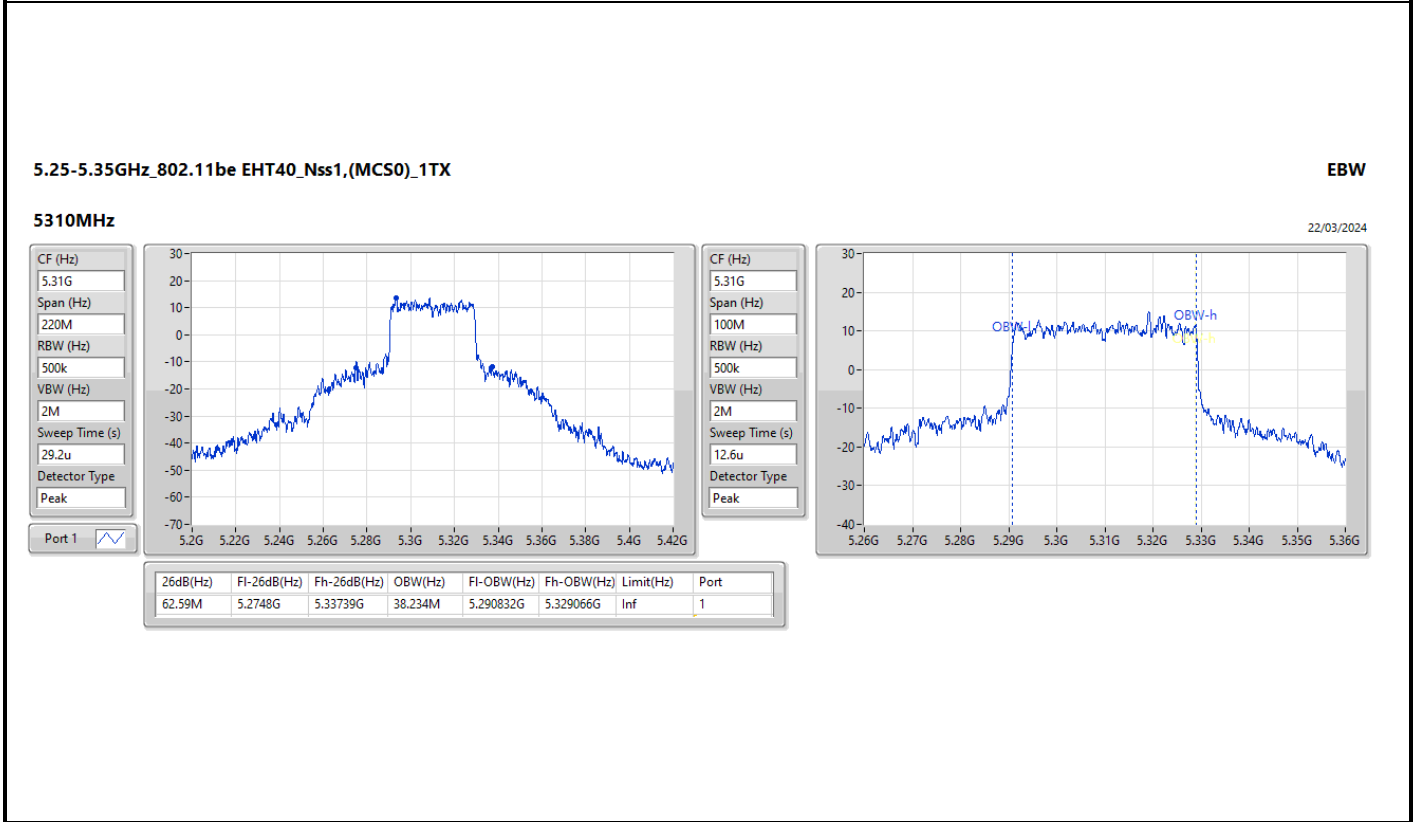
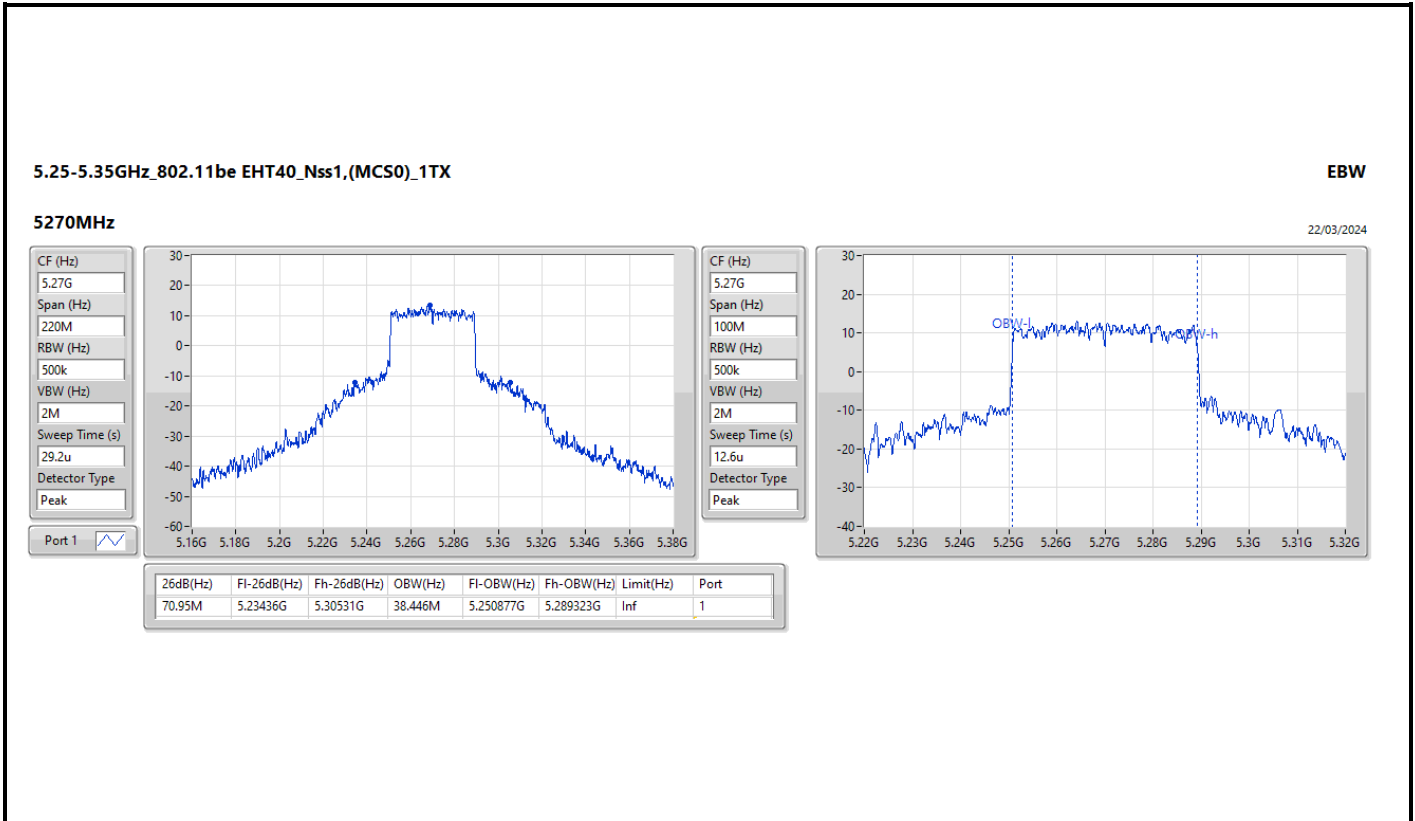
EBW

5320MHz

22/03/2024





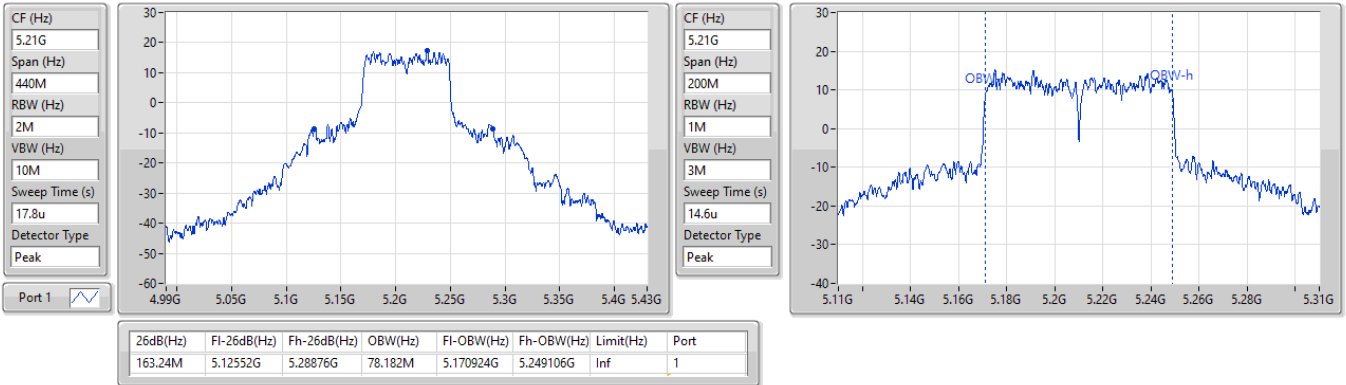


5.15-5.25GHz 802.11be EHT80\_Nss1,(MCS14)\_1TX

EBW

5210MHz

22/03/2024

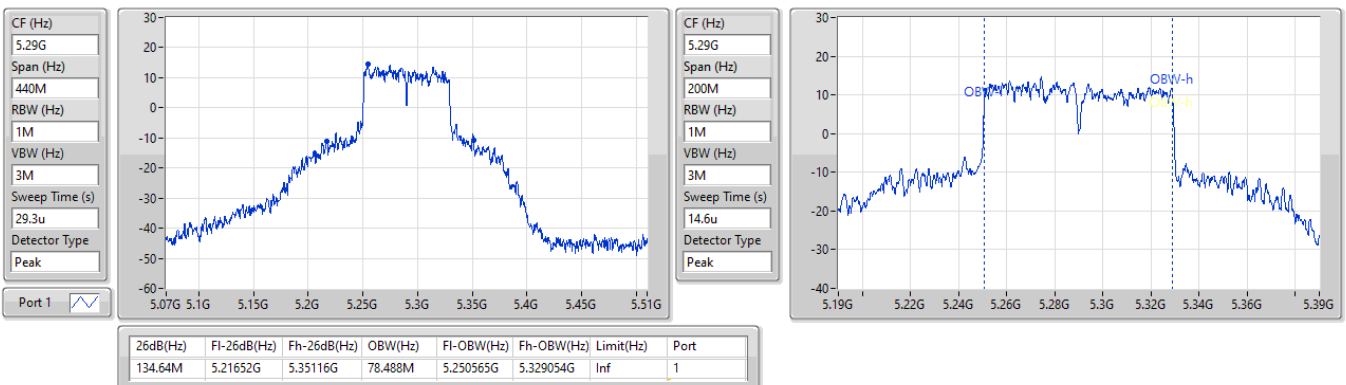


5.25-5.35GHz 802.11be EHT80\_Nss1,(MCS14)\_1TX

EBW

5290MHz

22/03/2024

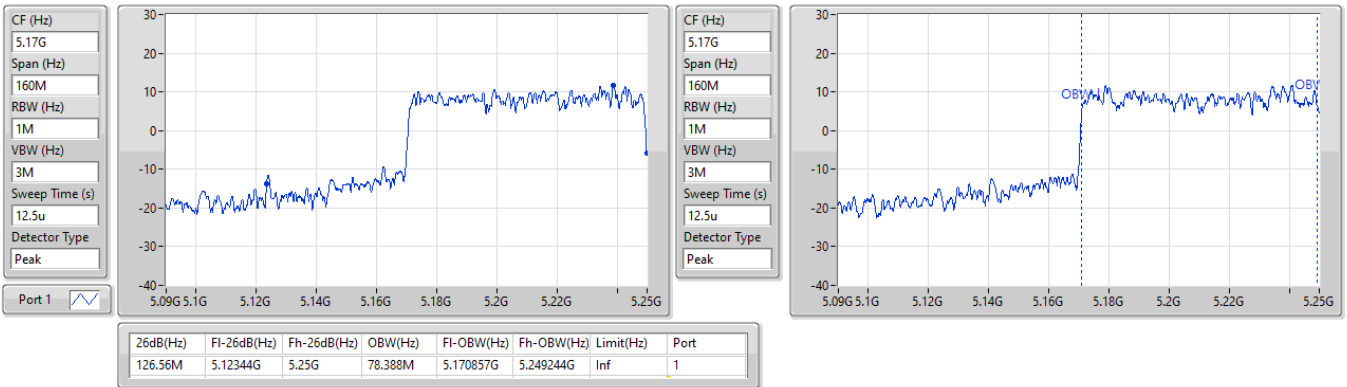


5.15-5.25GHz\_802.11be EHT160\_Nss1,(MCS14)\_1TX

EBW

5250MHz Straddle 5.15-5.25GHz

22/03/2024

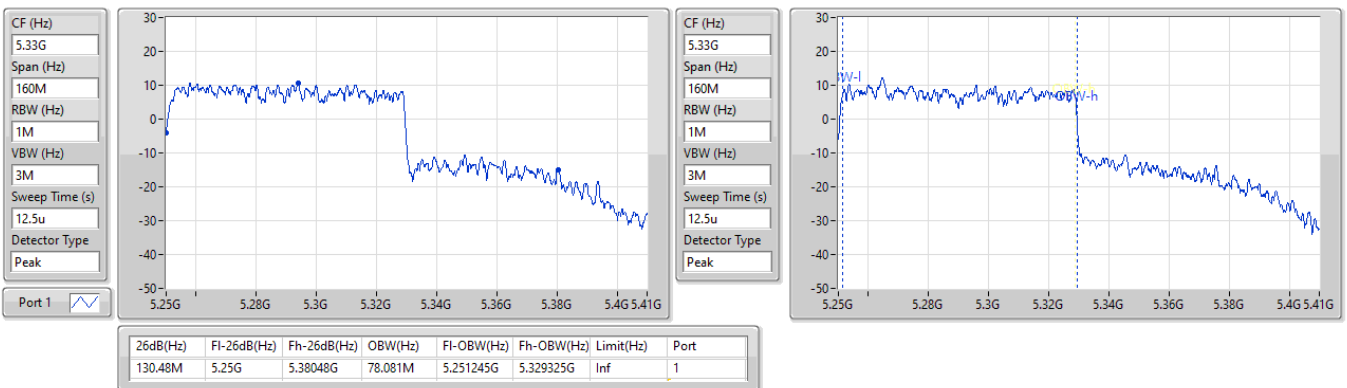


5.25-5.35GHz\_802.11be EHT160\_Nss1,(MCS14)\_1TX

EBW

5250MHz Straddle 5.25-5.35GHz

22/03/2024



5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5180MHz

16/04/2024

CF (Hz)  
5.18G

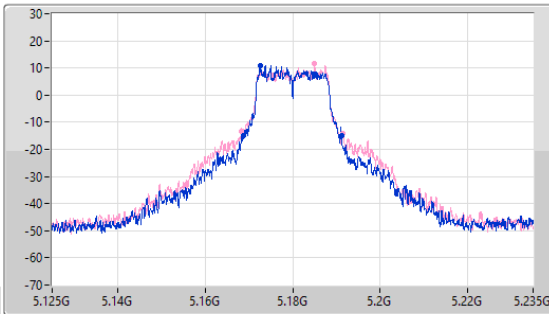
Span (Hz)  
110M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
41.8u

Detector Type  
Peak



CF (Hz)  
5.18G

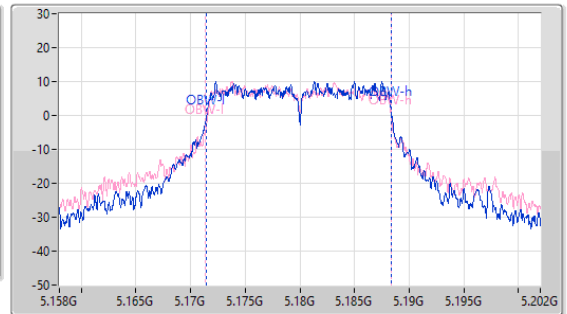
Span (Hz)  
44M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
20.9u

Detector Type  
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
22.385M	5.16878G	5.191165G	16.983M	5.171404G	5.188387G	Inf	1
23.21M	5.16823G	5.19144G	17.02M	5.171374G	5.188394G	Inf	2

5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5200MHz

16/04/2024

CF (Hz)  
5.2G

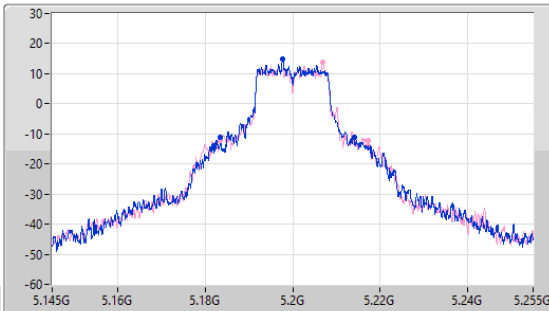
Span (Hz)  
110M

RBW (Hz)  
300k

VBW (Hz)  
1M

Sweep Time (s)  
27.9u

Detector Type  
Peak



CF (Hz)  
5.2G

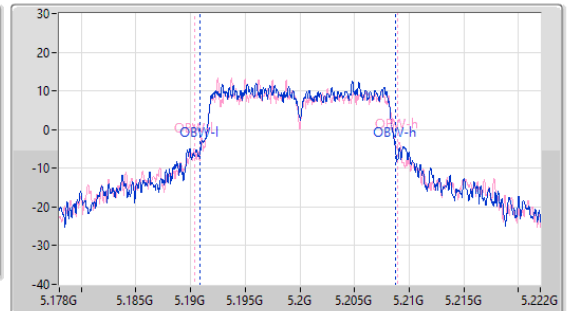
Span (Hz)  
44M

RBW (Hz)  
200k

VBW (Hz)  
1M

Sweep Time (s)  
20.9u

Detector Type  
Peak



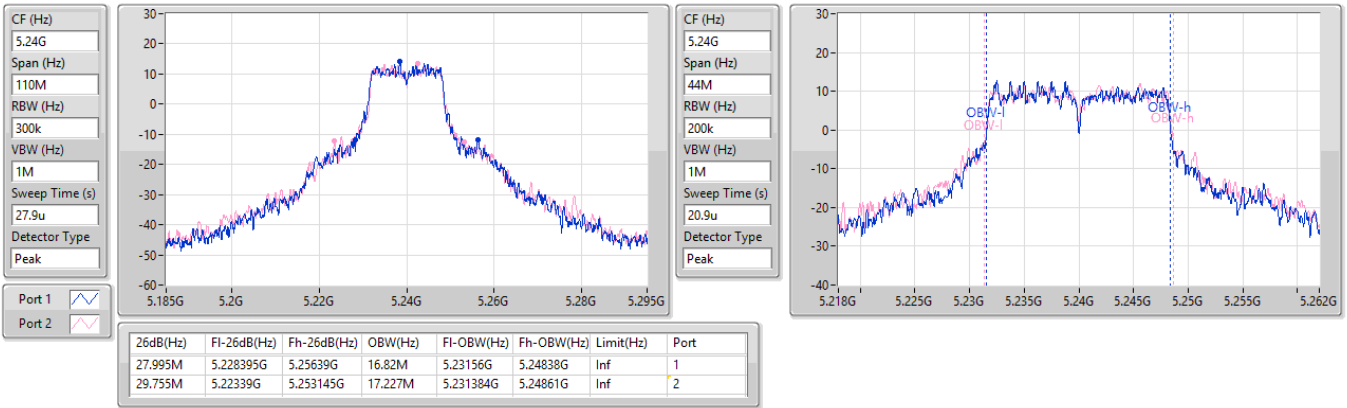
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
30.635M	5.1835G	5.214135G	17.934M	5.190847G	5.208781G	Inf	1
33.88M	5.18339G	5.21727G	18.53M	5.190412G	5.208943G	Inf	2

5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5240MHz

16/04/2024

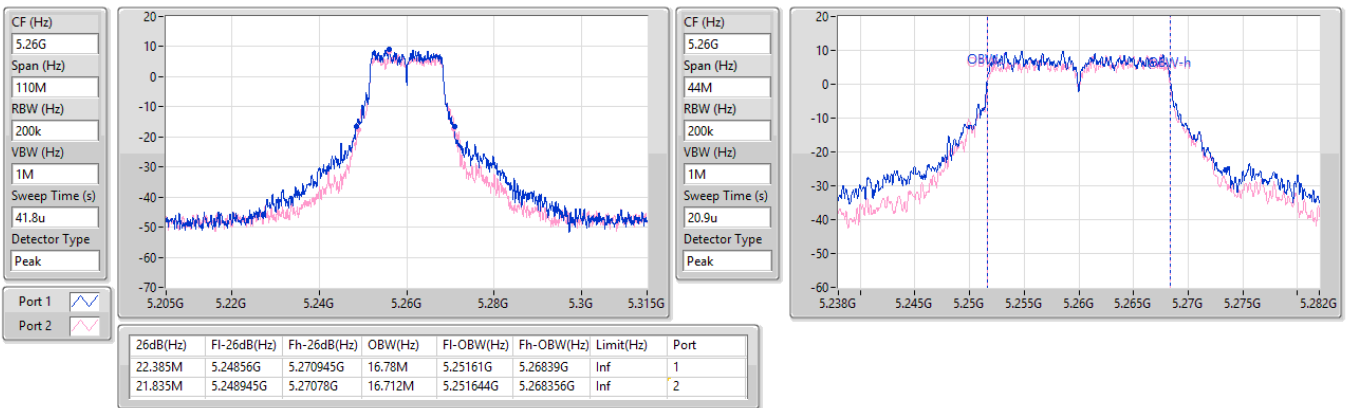


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5260MHz

16/04/2024



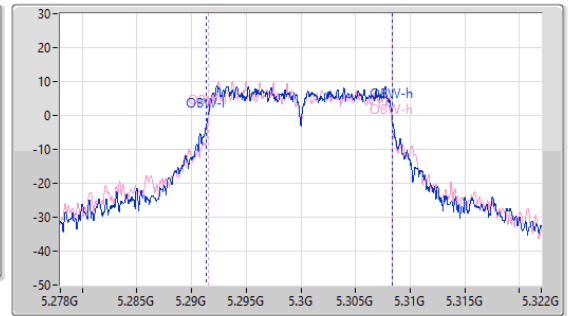
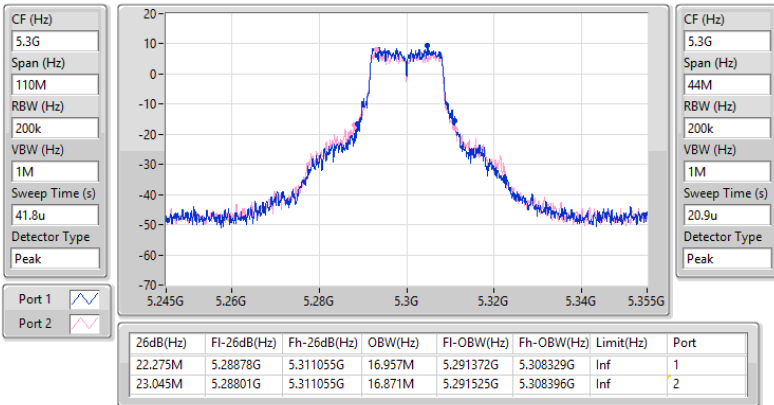


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5300MHz

16/04/2024

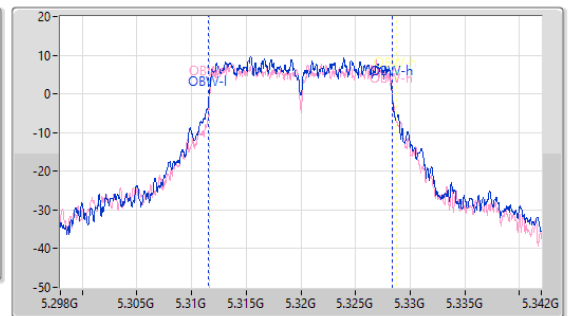
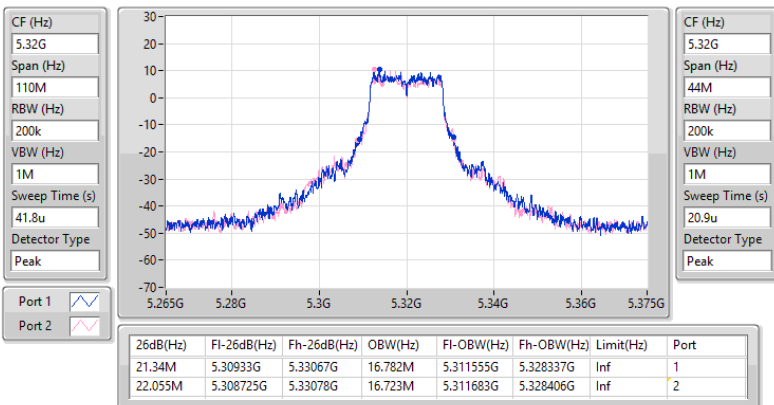


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5320MHz

16/04/2024

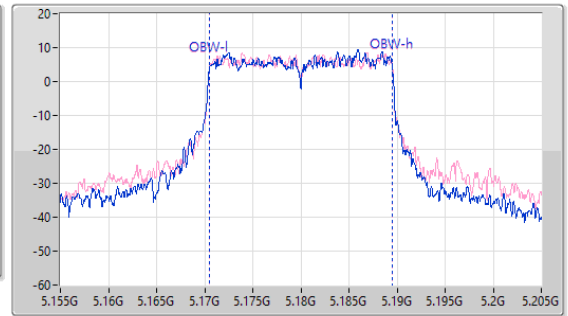
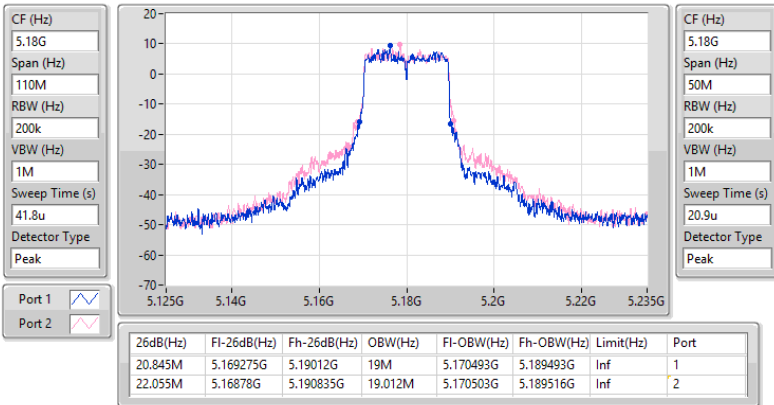


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5180MHz

16/04/2024

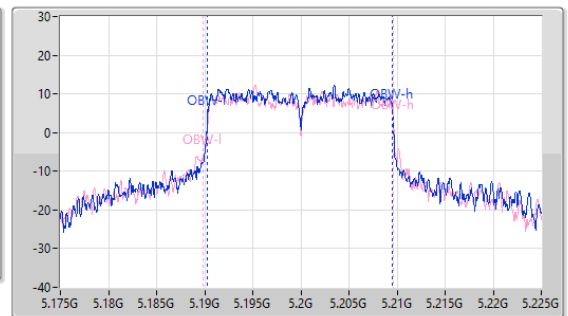
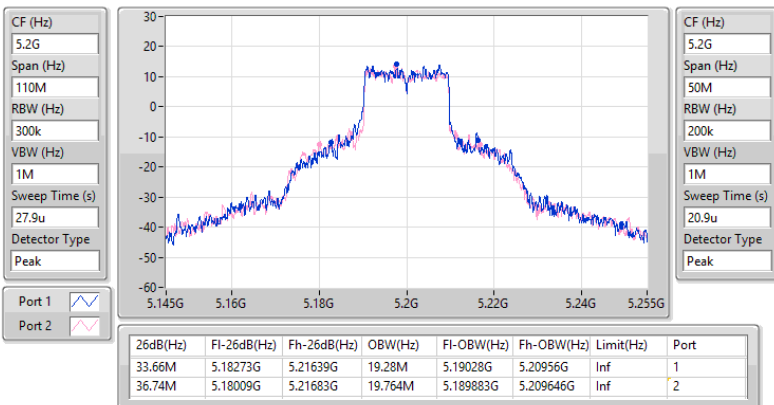


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5200MHz

16/04/2024

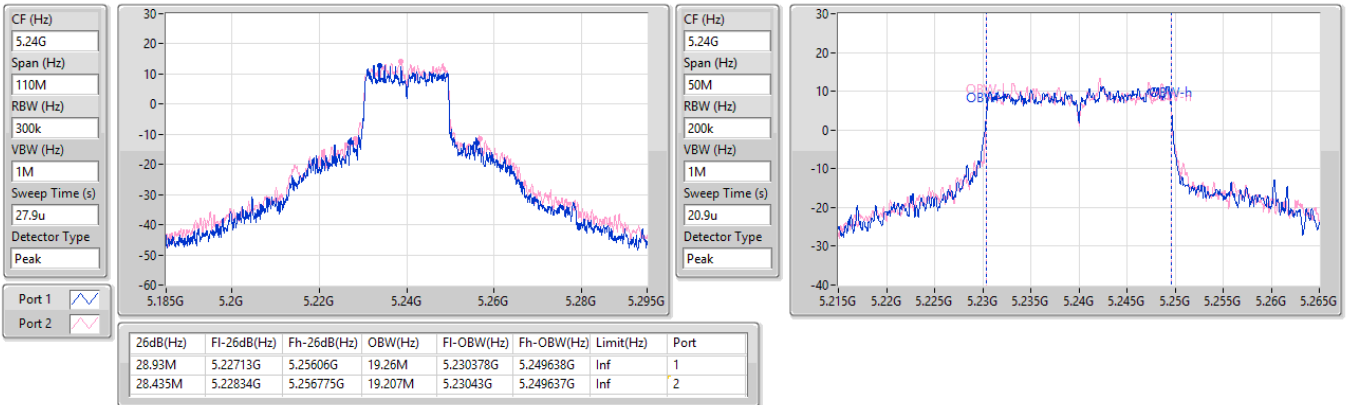


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5240MHz

16/04/2024

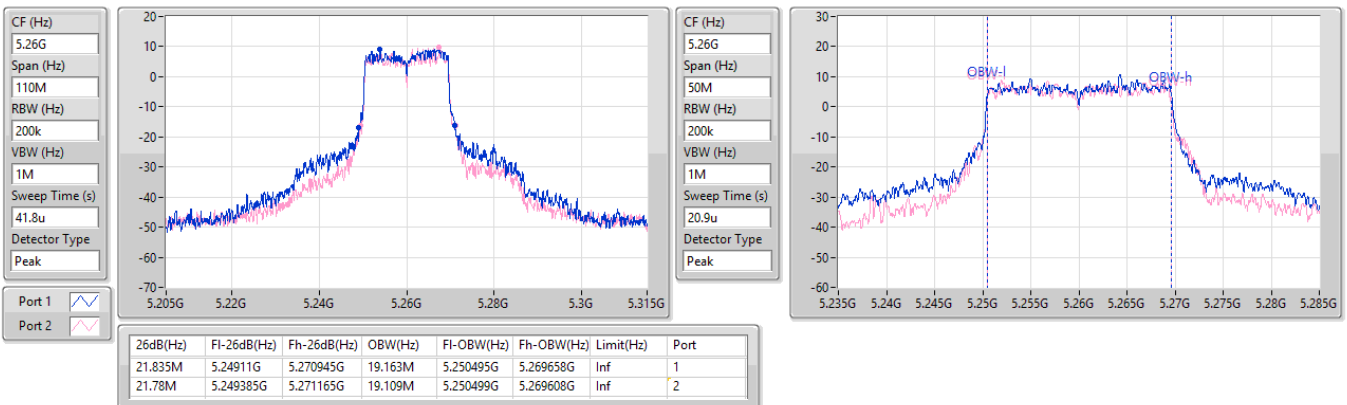


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5260MHz

16/04/2024

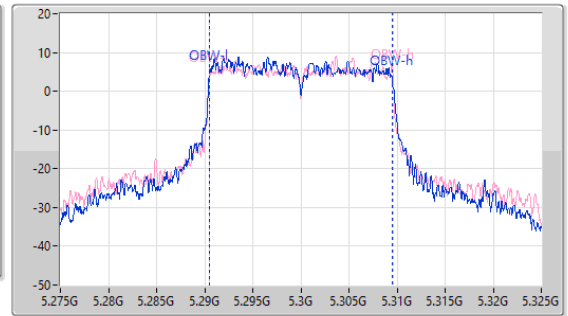
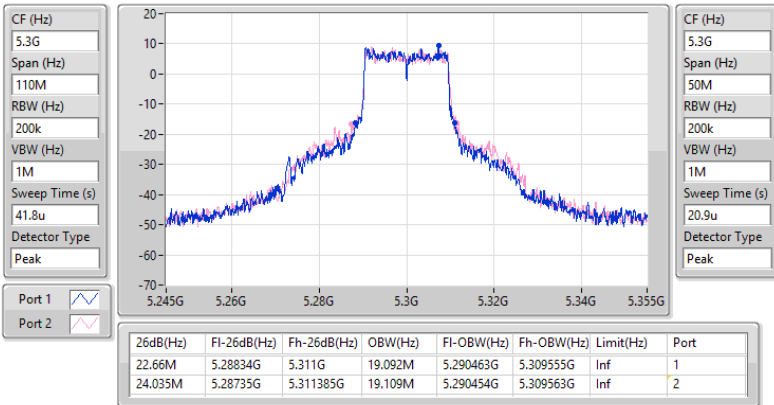


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5300MHz

16/04/2024

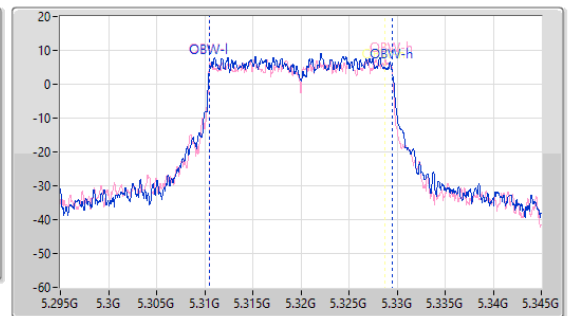
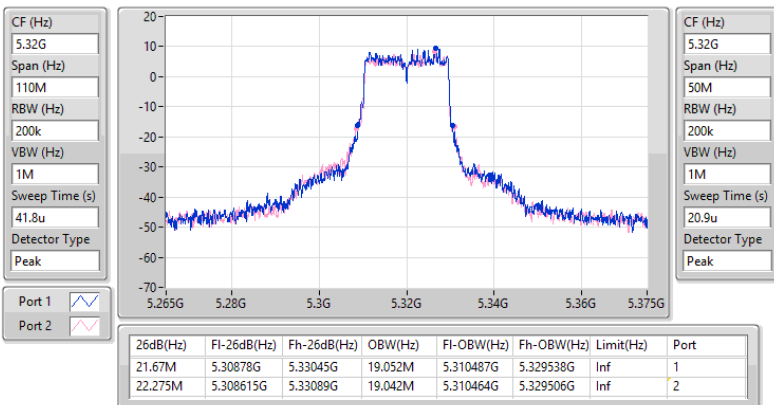


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5320MHz

16/04/2024

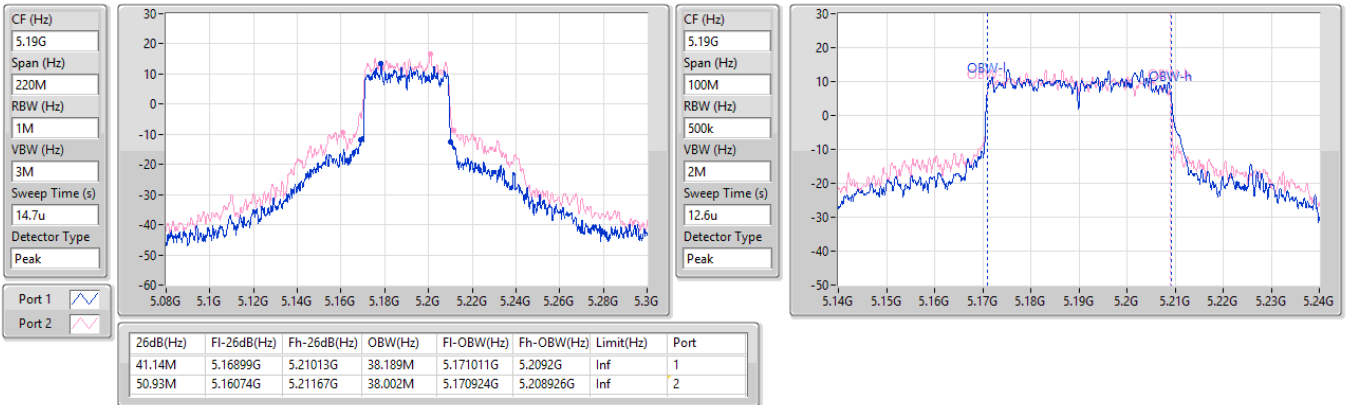


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5190MHz

16/04/2024

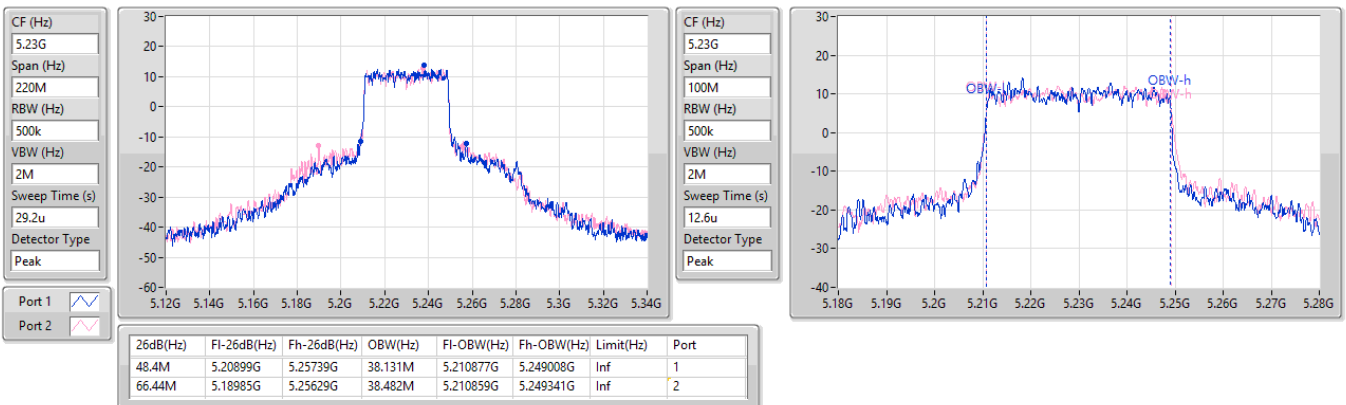


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5230MHz

16/04/2024

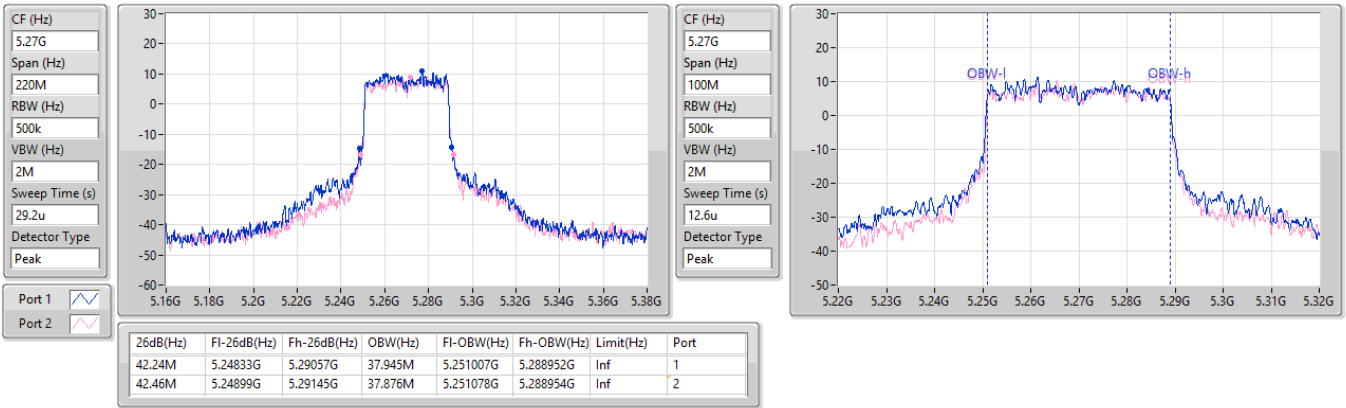


5.25-5.35GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5270MHz

16/04/2024

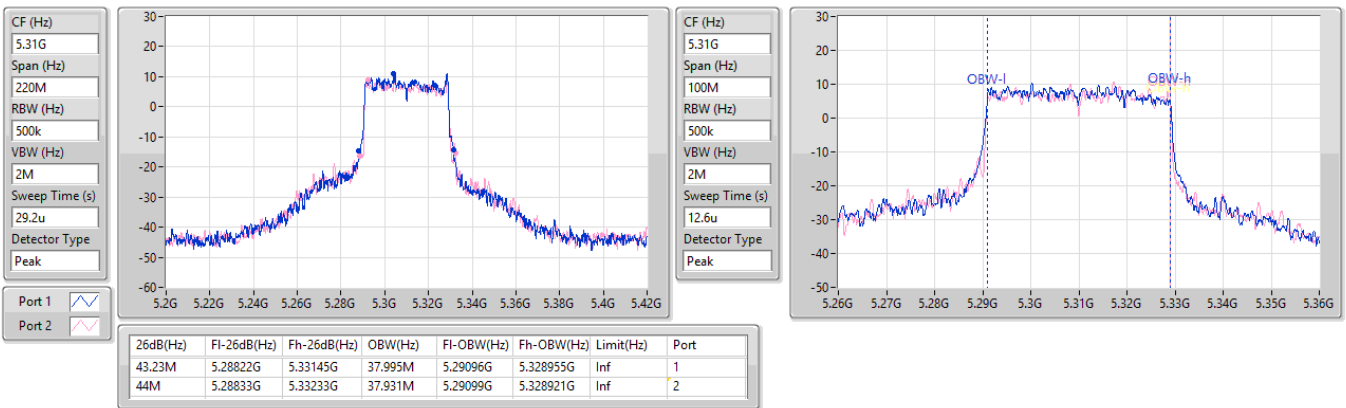


5.25-5.35GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5310MHz

16/04/2024

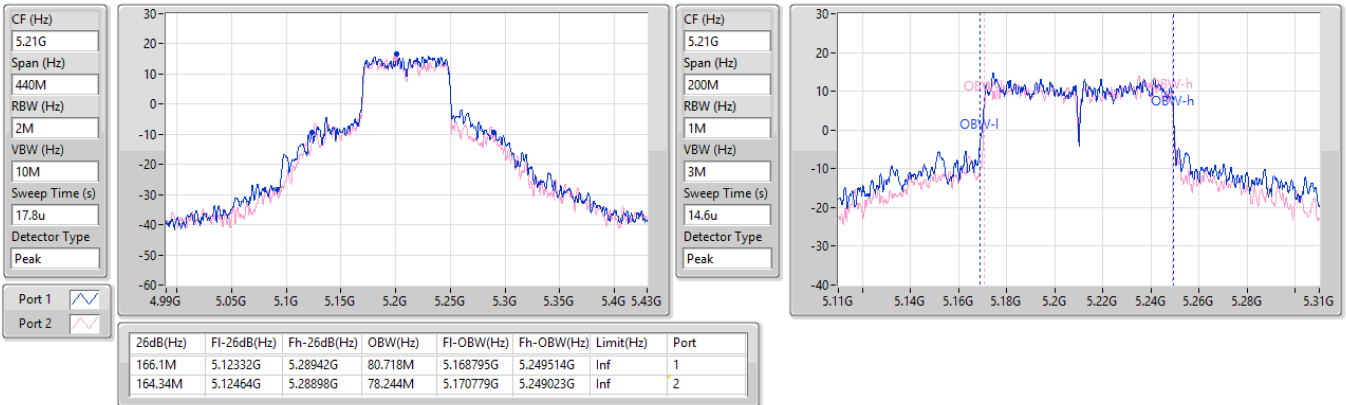


5.15-5.25GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5210MHz

16/04/2024

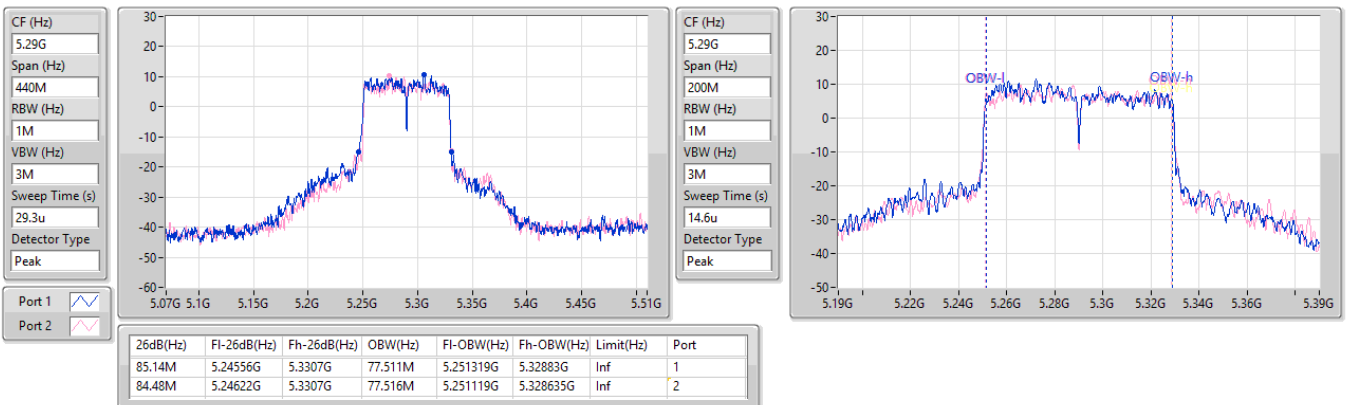


5.25-5.35GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5290MHz

16/04/2024

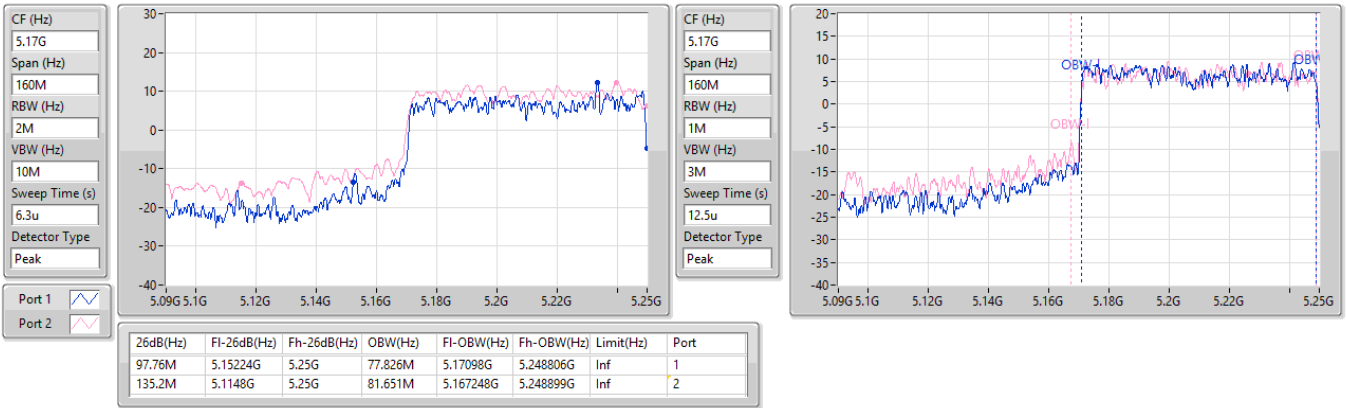


5.15-5.25GHz\_802.11be EHT160\_Nss1,(MCS14)\_2TX

EBW

5250MHz Straddle 5.15-5.25GHz

16/04/2024

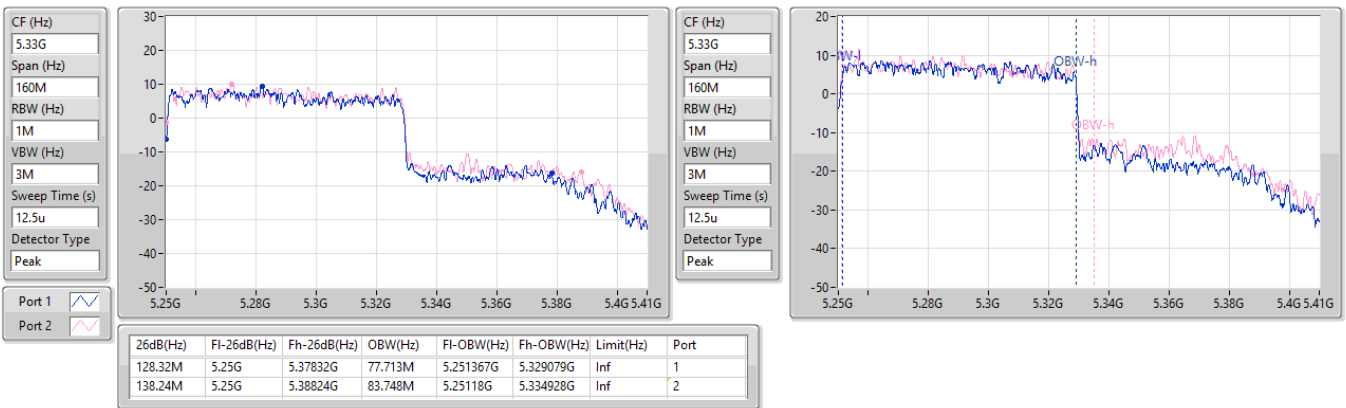


5.25-5.35GHz\_802.11be EHT160\_Nss1,(MCS14)\_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

16/04/2024



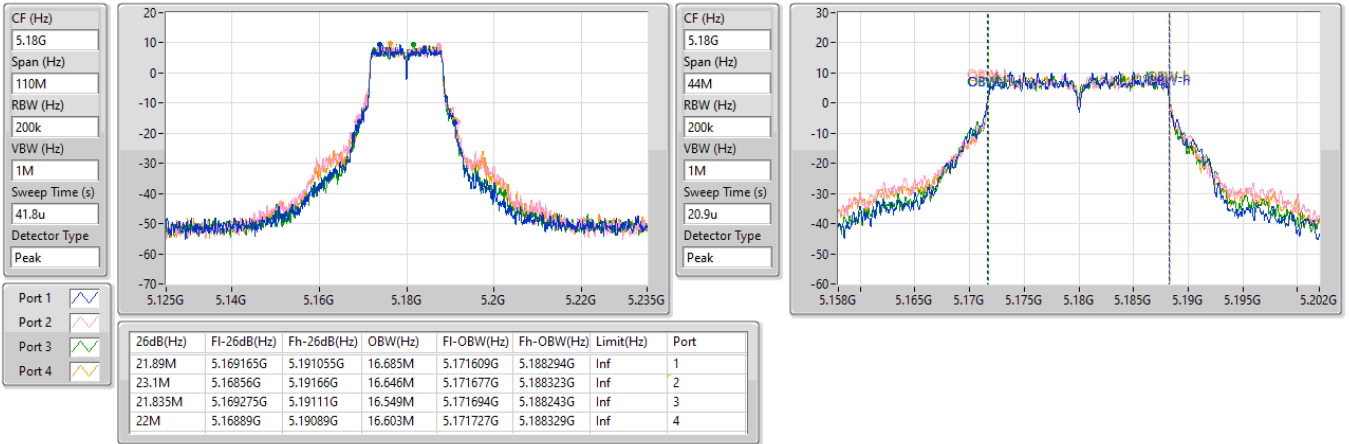


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5180MHz

22/03/2024

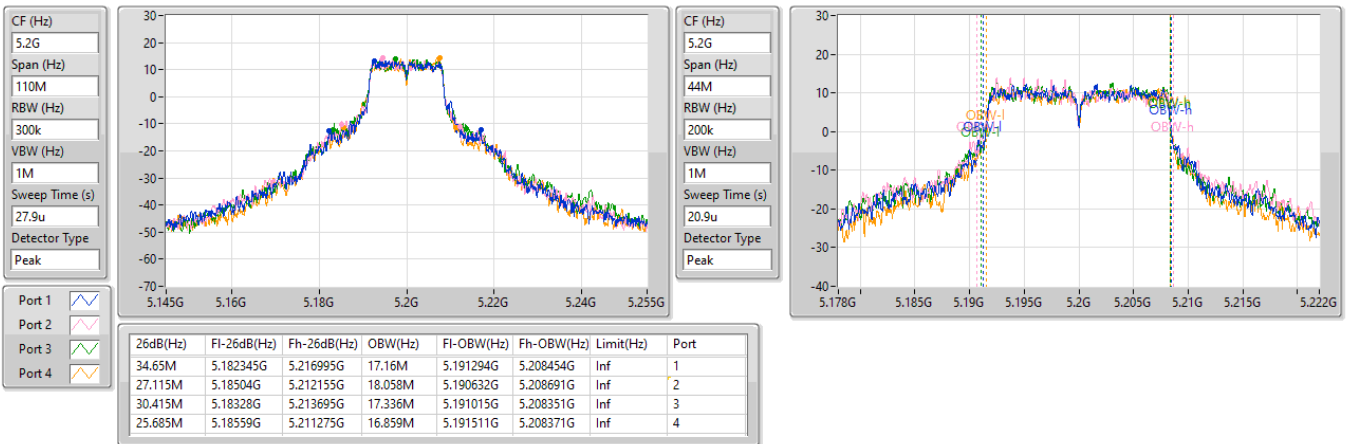


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5200MHz

22/03/2024

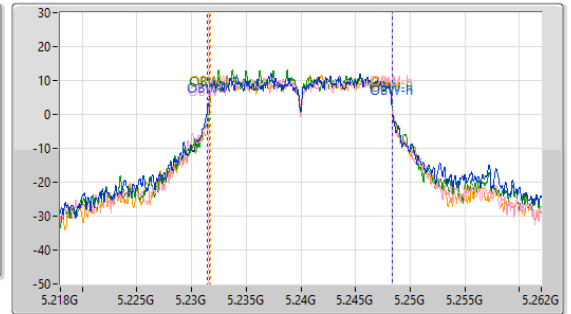
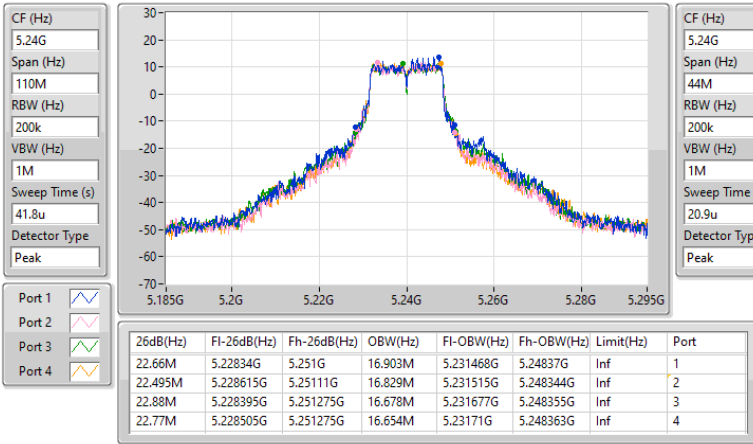


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5240MHz

22/03/2024

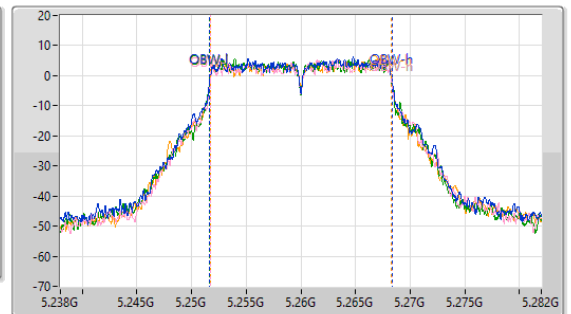
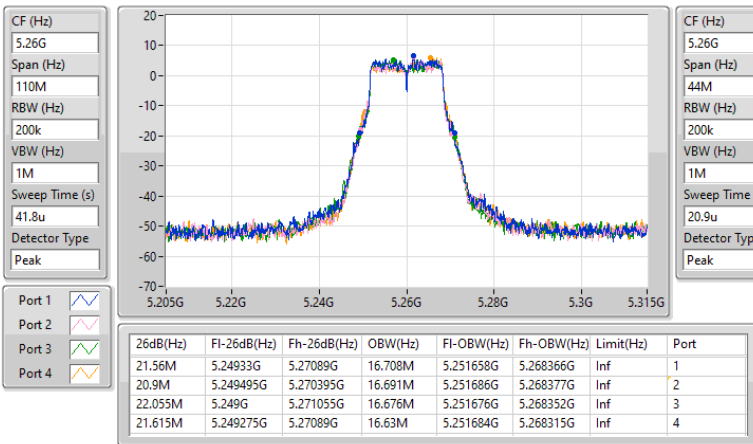


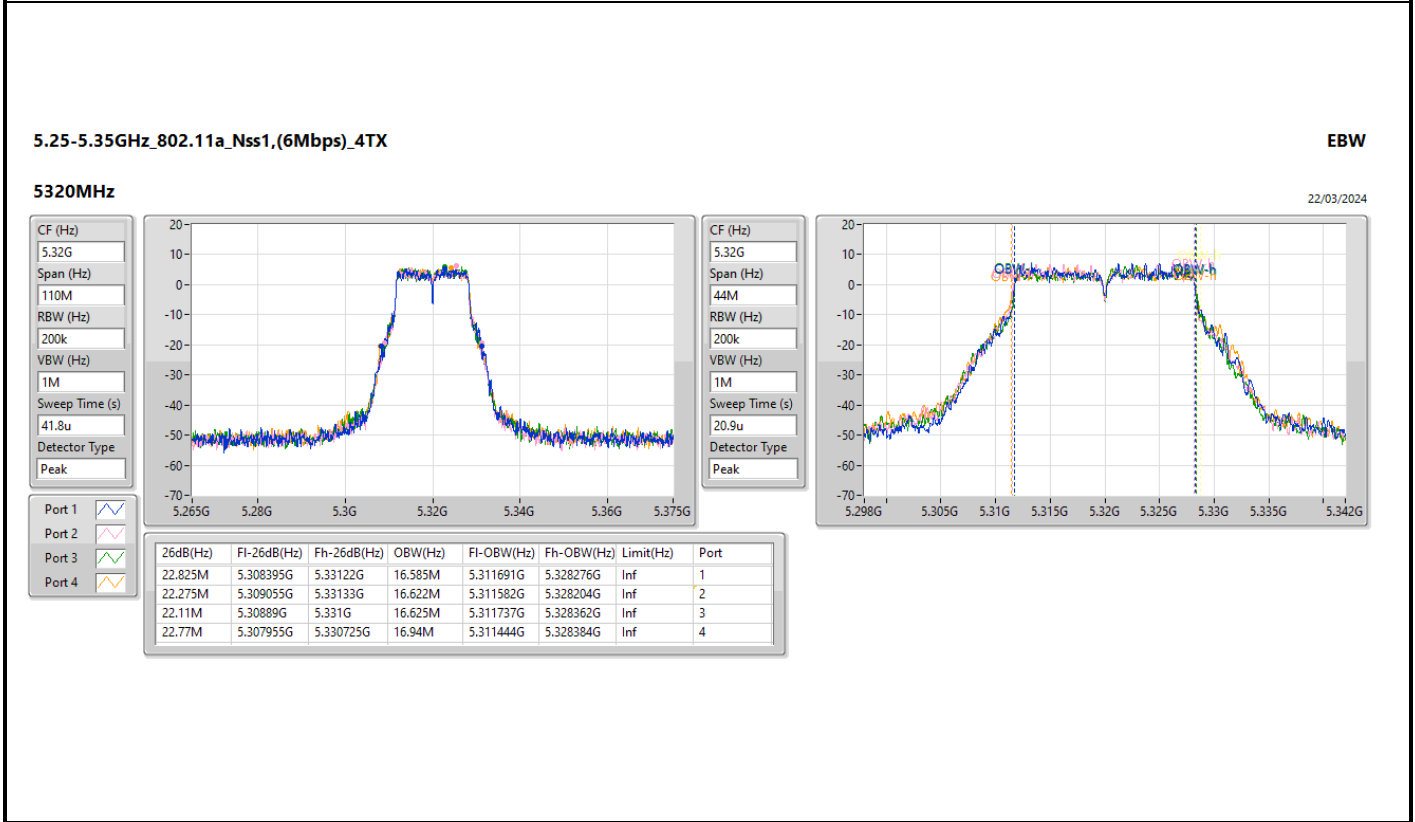
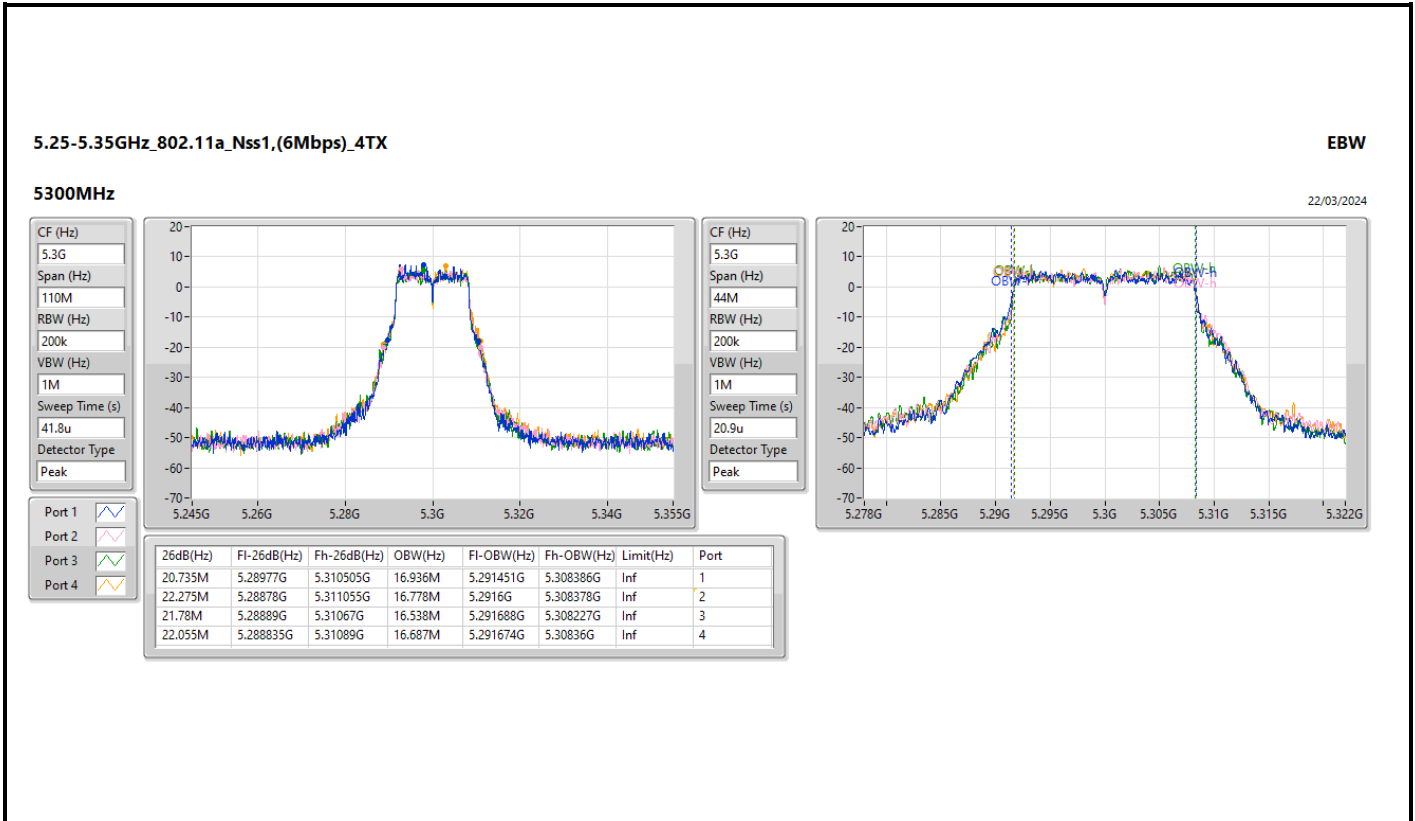
5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

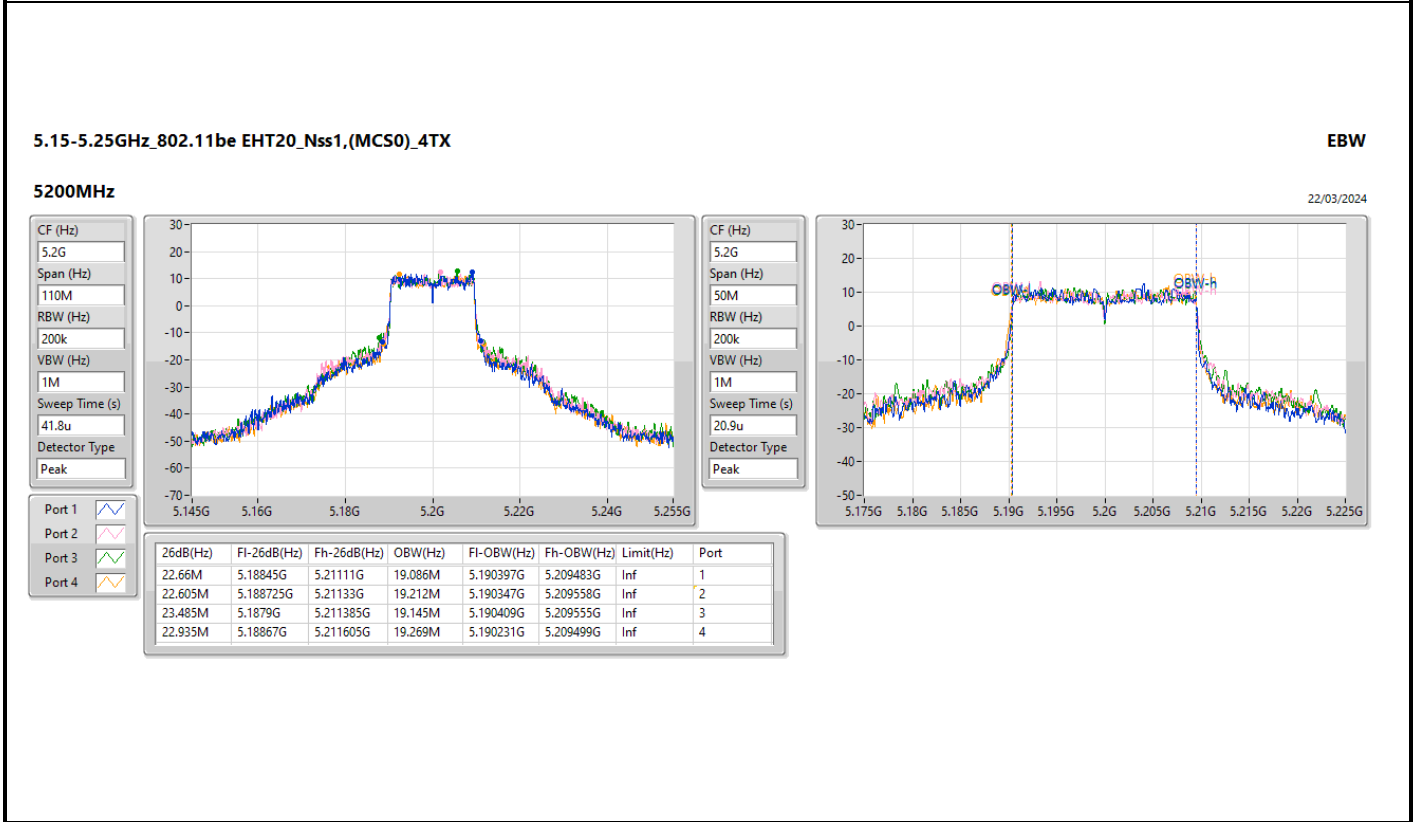
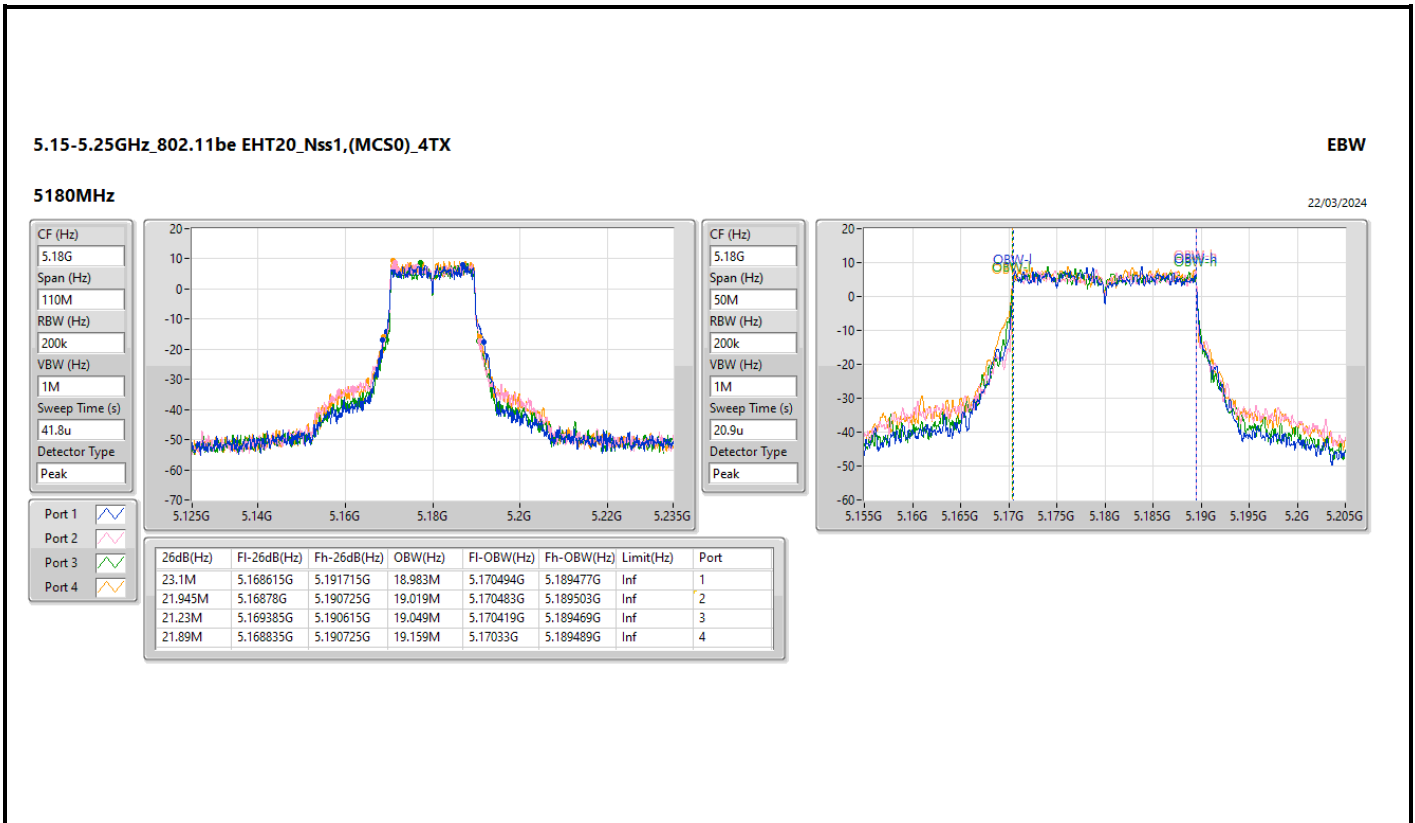
EBW

5260MHz

22/03/2024





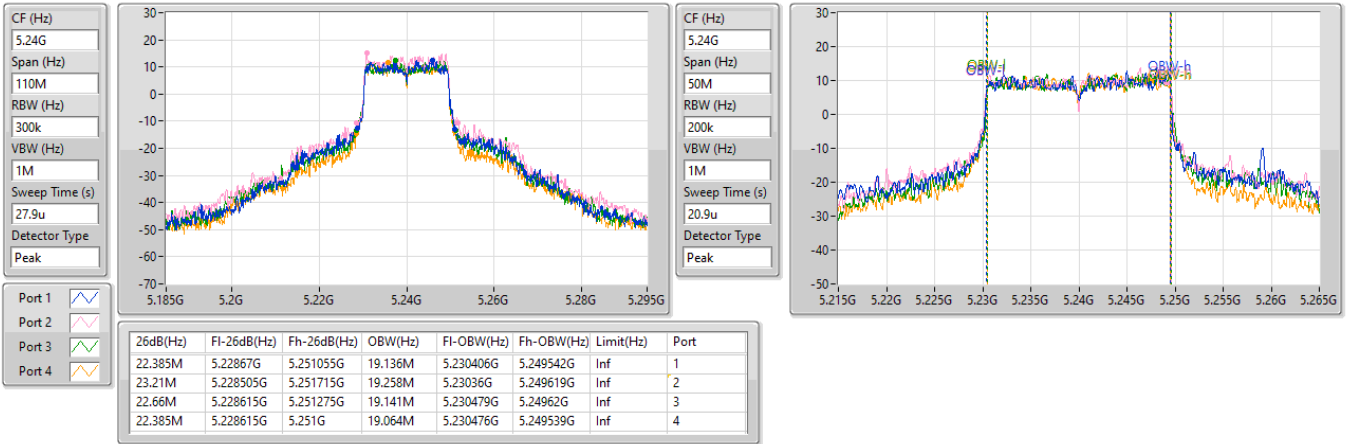


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_4TX

EBW

5240MHz

22/03/2024

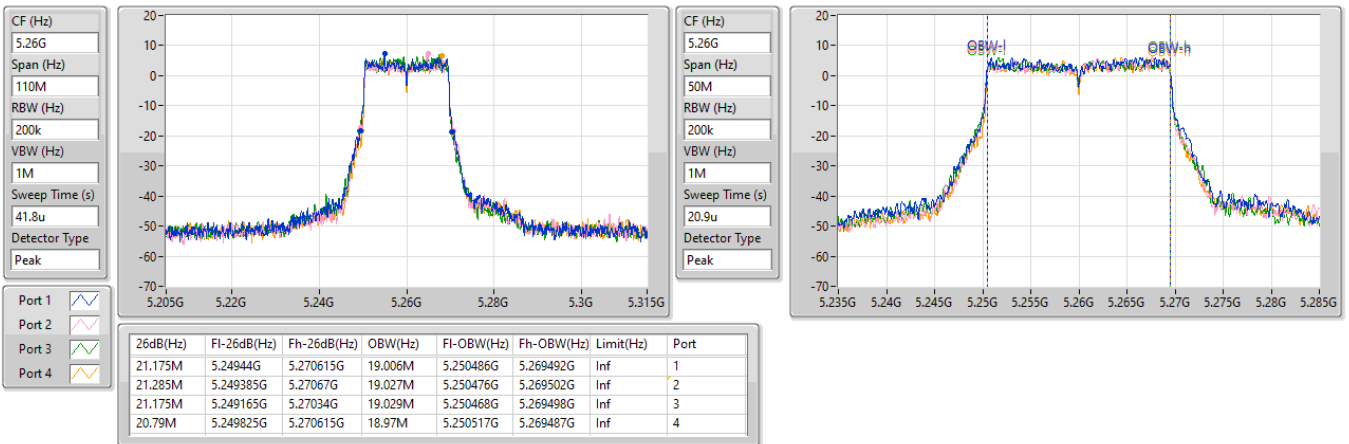


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_4TX

EBW

5260MHz

22/03/2024

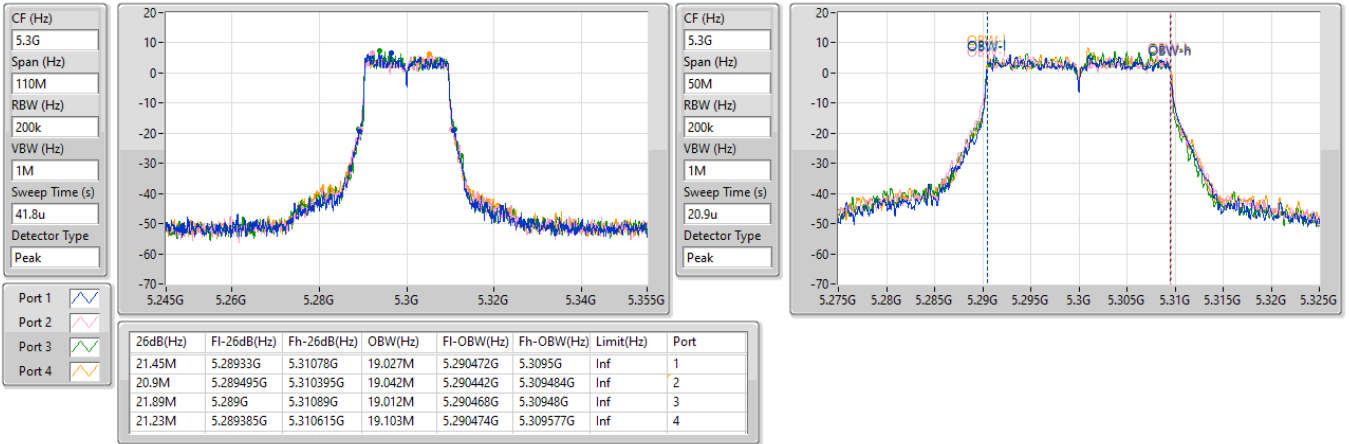


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_4TX

EBW

5300MHz

22/03/2024

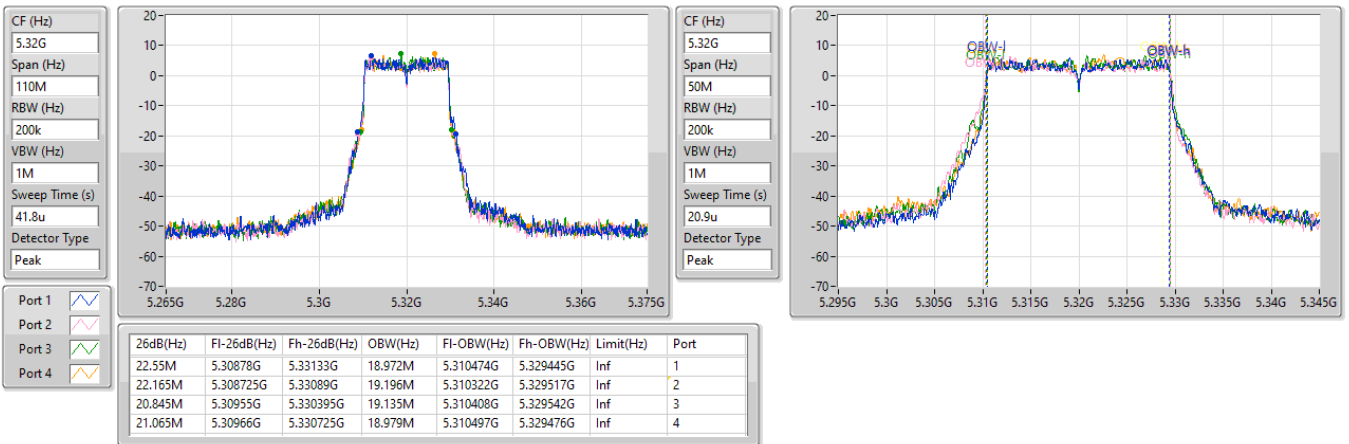


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_4TX

EBW

5320MHz

22/03/2024

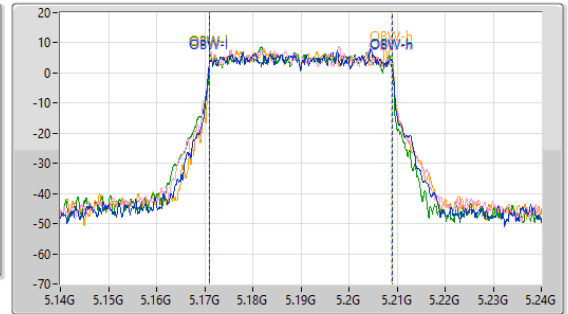
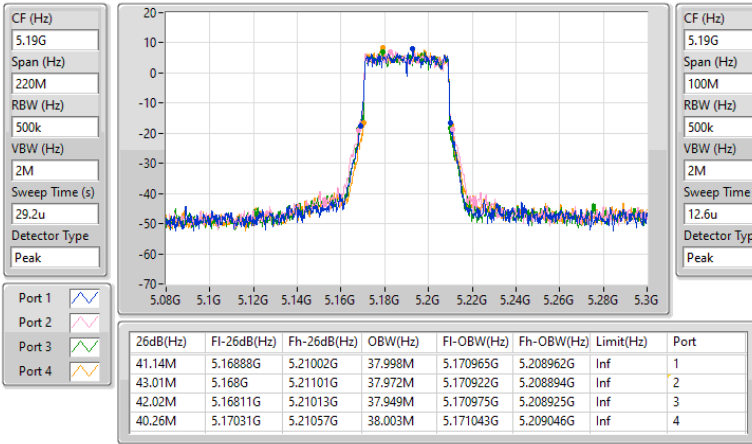


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_4TX

EBW

5190MHz

22/03/2024

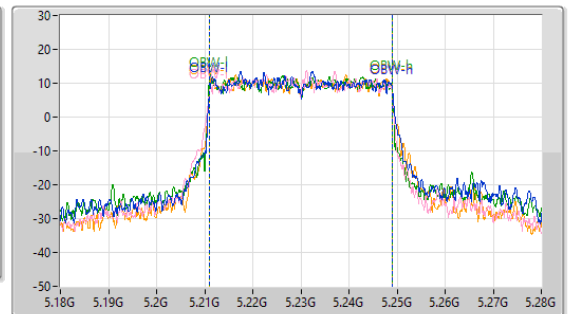
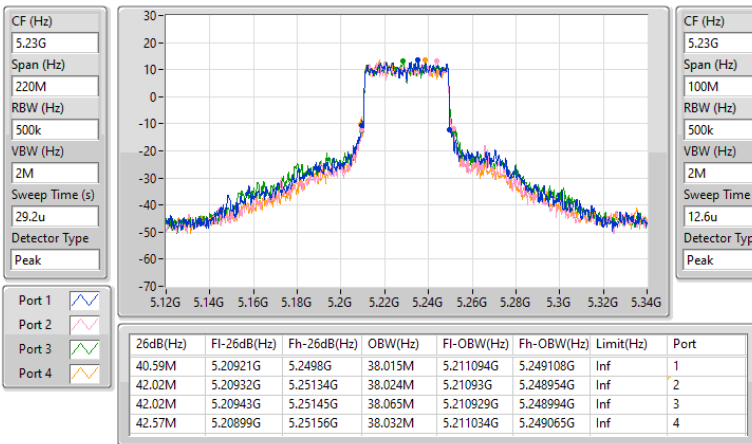


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_4TX

EBW

5230MHz

22/03/2024

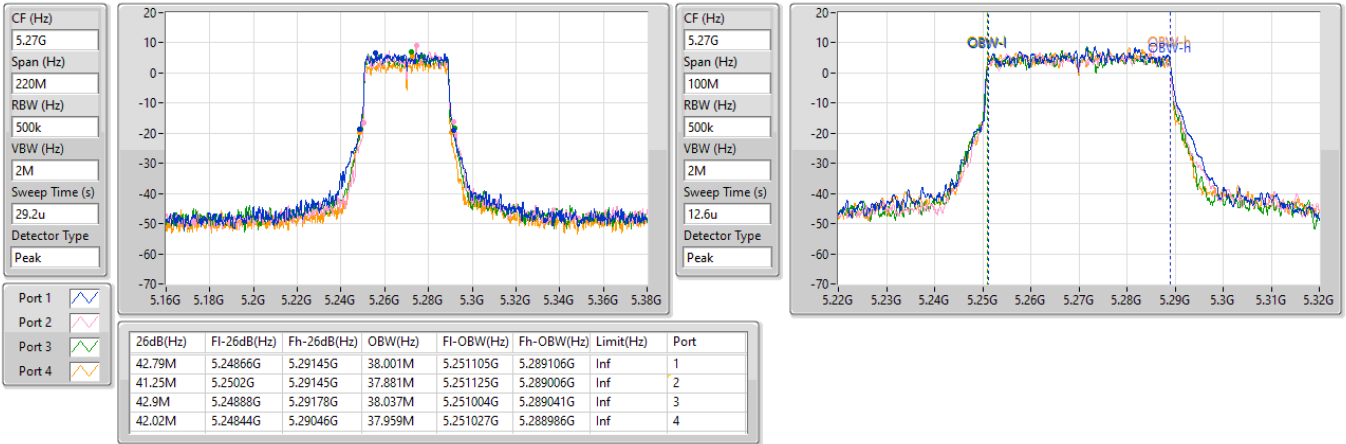


5.25-5.35GHz\_802.11be EHT40\_Nss1,(MCS0)\_4TX

EBW

5270MHz

22/03/2024

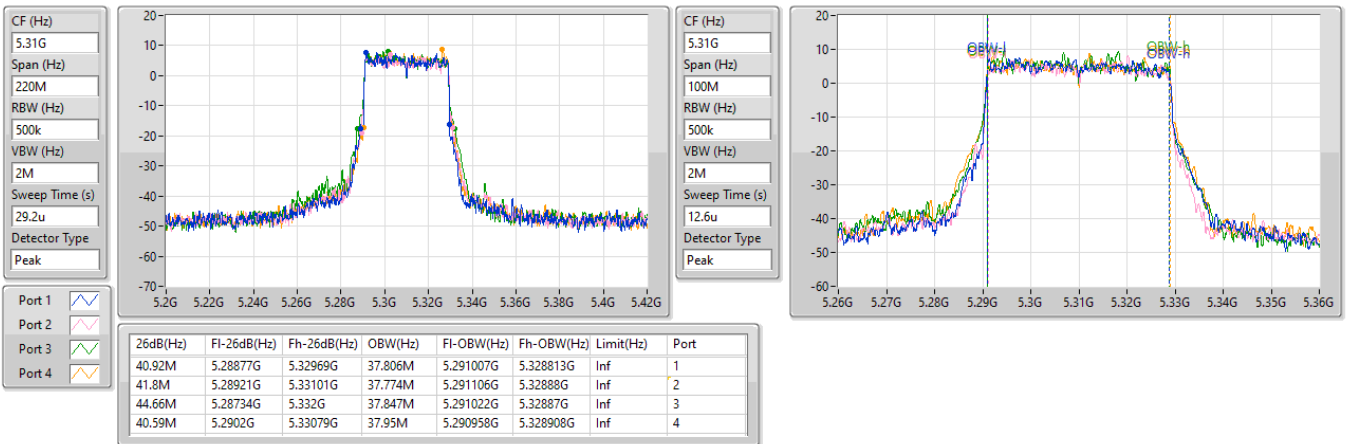


5.25-5.35GHz\_802.11be EHT40\_Nss1,(MCS0)\_4TX

EBW

5310MHz

22/03/2024



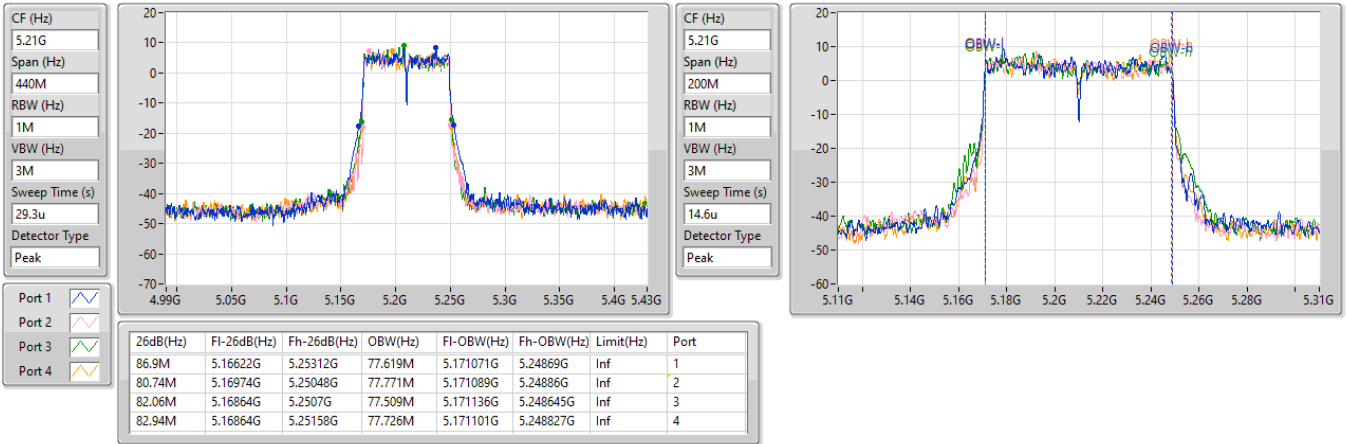


5.15-5.25GHz\_802.11be EHT80\_Nss1,(MCS14)\_4TX

EBW

5210MHz

22/03/2024

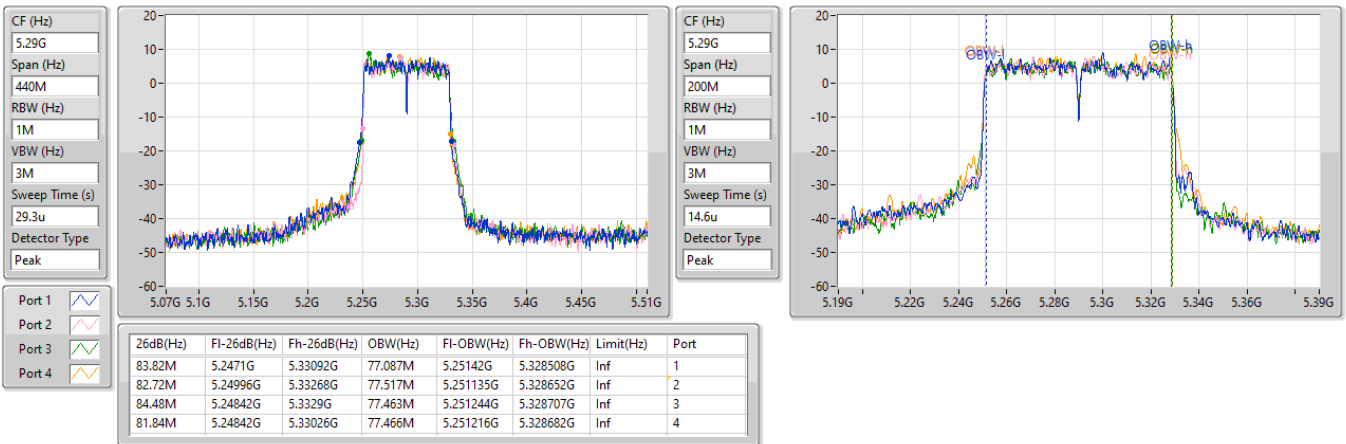


5.25-5.35GHz\_802.11be EHT80\_Nss1,(MCS14)\_4TX

EBW

5290MHz

22/03/2024

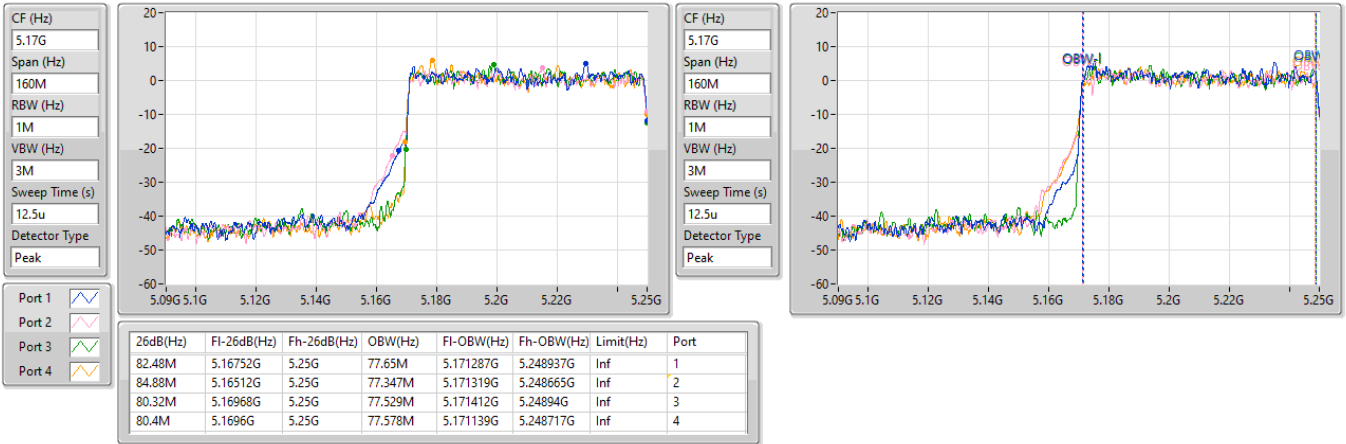


5.15-5.25GHz\_802.11be EHT160\_Nss1,(MCS14)\_4TX

EBW

5250MHz Straddle 5.15-5.25GHz

22/03/2024

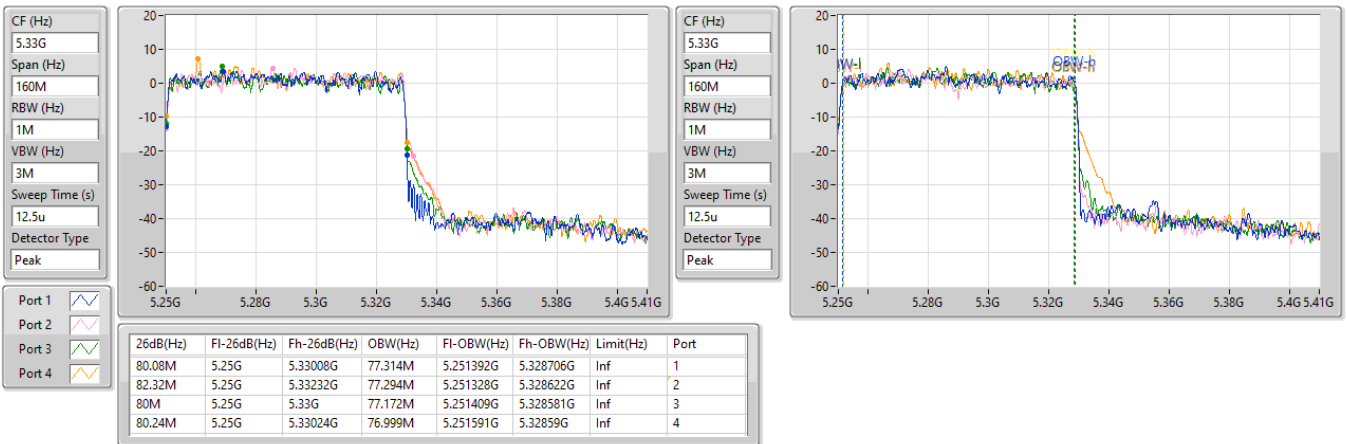


5.25-5.35GHz\_802.11be EHT160\_Nss1,(MCS14)\_4TX

EBW

5250MHz Straddle 5.25-5.35GHz

22/03/2024



**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	34.045M	18.497M	18M5D1D	23.1M	16.727M
802.11a_Nss1,(6Mbps)_2TX	35.915M	19.723M	19M7D1D	21.615M	16.705M
802.11a_Nss1,(6Mbps)_4TX	23.375M	16.916M	16M9D1D	21.395M	16.588M
802.11be EHT20_Nss1,(MCS0)_1TX	37.4M	19.277M	19M3D1D	23.21M	19.036M
802.11be EHT20_Nss1,(MCS0)_2TX	37.895M	19.552M	19M6D1D	21.725M	18.973M
802.11be EHT20_Nss1,(MCS0)_4TX	32.23M	19.331M	19M3D1D	21.395M	18.98M
802.11be EHT40_Nss1,(MCS0)_1TX	44.66M	38.235M	38M2D1D	43.67M	37.989M
802.11be EHT40_Nss1,(MCS0)_2TX	43.45M	38.248M	38M2D1D	41.36M	37.929M
802.11be EHT40_Nss1,(MCS0)_4TX	44.99M	38.064M	38M1D1D	41.25M	37.872M
802.11be EHT80_Nss1,(MCS14)_1TX	80.74M	77.753M	77M8D1D	80.74M	77.753M
802.11be EHT80_Nss1,(MCS14)_2TX	82.06M	77.712M	77M7D1D	81.84M	77.417M
802.11be EHT80_Nss1,(MCS14)_4TX	84.26M	77.921M	77M9D1D	80.74M	77.384M
802.11be EHT160_Nss1,(MCS14)_1TX	84.64M	77.242M	77M2D1D	84.64M	77.242M
802.11be EHT160_Nss1,(MCS14)_2TX	82.16M	77.692M	77M7D1D	80M	77.59M
802.11be EHT160_Nss1,(MCS14)_4TX	84.48M	77.972M	78MOD1D	80.24M	77.524M
5.25-5.35GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	35.64M	19.283M	19M3D1D	22.935M	16.874M
802.11a_Nss1,(6Mbps)_2TX	23.65M	17.049M	17MOD1D	21.78M	16.704M
802.11a_Nss1,(6Mbps)_4TX	22.55M	16.842M	16M8D1D	20.9M	16.536M
802.11be EHT20_Nss1,(MCS0)_1TX	37.95M	19.608M	19M6D1D	22.66M	19.134M
802.11be EHT20_Nss1,(MCS0)_2TX	22.11M	19.279M	19M3D1D	20.735M	18.982M
802.11be EHT20_Nss1,(MCS0)_4TX	22.935M	19.124M	19M1D1D	21.065M	18.967M
802.11be EHT40_Nss1,(MCS0)_1TX	52.03M	38.341M	38M3D1D	41.03M	37.953M
802.11be EHT40_Nss1,(MCS0)_2TX	42.24M	38.433M	38M4D1D	40.37M	37.808M
802.11be EHT40_Nss1,(MCS0)_4TX	42.68M	38.129M	38M1D1D	40.37M	37.85M
802.11be EHT80_Nss1,(MCS14)_1TX	82.94M	77.621M	77M6D1D	82.94M	77.621M
802.11be EHT80_Nss1,(MCS14)_2TX	83.82M	77.544M	77M5D1D	80.96M	77.506M
802.11be EHT80_Nss1,(MCS14)_4TX	84.48M	78.018M	78MOD1D	81.18M	77.575M
802.11be EHT160_Nss1,(MCS14)_1TX	80.08M	77.126M	77M1D1D	80.08M	77.126M
802.11be EHT160_Nss1,(MCS14)_2TX	82.88M	77.608M	77M6D1D	80M	77.605M
802.11be EHT160_Nss1,(MCS14)_4TX	84.72M	77.47M	77M5D1D	80.08M	77.321M
5.47-5.725GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	33.165M	19.352M	19M4D1D	21.45M	14.752M
802.11a_Nss1,(6Mbps)_2TX	22.44M	16.812M	16M8D1D	16.185M	13.338M
802.11a_Nss1,(6Mbps)_4TX	22.275M	16.85M	16M9D1D	15.495M	13.286M
802.11be EHT20_Nss1,(MCS0)_1TX	36.135M	19.492M	19M5D1D	21.54M	14.573M
802.11be EHT20_Nss1,(MCS0)_2TX	23.1M	19.028M	19MOD1D	16.065M	14.465M
802.11be EHT20_Nss1,(MCS0)_4TX	22.44M	19.157M	19M2D1D	15.69M	14.437M
802.11be EHT40_Nss1,(MCS0)_1TX	71.39M	38.676M	38M7D1D	40.7M	34.025M
802.11be EHT40_Nss1,(MCS0)_2TX	44.99M	38.098M	38M1D1D	35.42M	33.882M
802.11be EHT40_Nss1,(MCS0)_4TX	43.23M	38.343M	38M3D1D	36.015M	33.664M
802.11be EHT80_Nss1,(MCS14)_1TX	118.5M	78.056M	78M1D1D	83.16M	74.336M
802.11be EHT80_Nss1,(MCS14)_2TX	82.94M	77.968M	78MOD1D	75.15M	73.397M
802.11be EHT80_Nss1,(MCS14)_4TX	84.92M	78.021M	78MOD1D	74.925M	73.3M
802.11be EHT160_Nss1,(MCS14)_1TX	162.36M	156.636M	157MD1D	162.36M	156.636M
802.11be EHT160_Nss1,(MCS14)_2TX	167.64M	157.094M	157MD1D	161.92M	156.626M
802.11be EHT160_Nss1,(MCS14)_4TX	165M	157.003M	157MD1D	161.92M	156.055M
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_1TX	16.5M	28.903M	28M9D1D	3.26M	10.278M
802.11a_Nss1,(6Mbps)_2TX	16.555M	29.307M	29M3D1D	3.24M	4.284M
802.11a_Nss1,(6Mbps)_4TX	16.555M	28.487M	28M5D1D	3.16M	4.081M
802.11be EHT20_Nss1,(MCS0)_1TX	19.14M	31.645M	31M6D1D	4.54M	10.916M
802.11be EHT20_Nss1,(MCS0)_2TX	19.25M	30.396M	30M4D1D	4.52M	4.63M
802.11be EHT20_Nss1,(MCS0)_4TX	19.25M	31.329M	31M3D1D	4.52M	4.56M



Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11be EHT40_Nss1,(MCS0)_1TX	38.17M	52.571M	52M6D1D	4.12M	23.481M
802.11be EHT40_Nss1,(MCS0)_2TX	38.28M	58.599M	58M6D1D	4.04M	4.282M
802.11be EHT40_Nss1,(MCS0)_4TX	38.28M	56.413M	56M4D1D	4.06M	4.146M
802.11be EHT80_Nss1,(MCS14)_1TX	78.1M	79.874M	79M9D1D	4.08M	36.868M
802.11be EHT80_Nss1,(MCS14)_2TX	78.32M	77.762M	77M8D1D	4.06M	12.293M
802.11be EHT80_Nss1,(MCS14)_4TX	78.1M	78.091M	78M1D1D	4.06M	4.096M

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



Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.1M	16.727M						
5200MHz	Pass	Inf	32.505M	17.503M						
5240MHz	Pass	Inf	34.045M	18.497M						
5260MHz	Pass	Inf	32.725M	19.228M						
5300MHz	Pass	Inf	35.64M	19.283M						
5320MHz	Pass	Inf	22.935M	16.874M						
5500MHz	Pass	Inf	21.45M	16.701M						
5580MHz	Pass	Inf	33.165M	19.352M						
5700MHz	Pass	Inf	22.11M	16.818M						
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	22.5M	14.752M						
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	10.278M						
5745MHz	Pass	500k	16.28M	20.752M						
5785MHz	Pass	500k	16.5M	27.135M						
5825MHz	Pass	500k	16.28M	28.903M						
802.11be EHT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	23.21M	19.036M						
5200MHz	Pass	Inf	37.4M	19.158M						
5240MHz	Pass	Inf	30.085M	19.277M						
5260MHz	Pass	Inf	35.145M	19.593M						
5300MHz	Pass	Inf	37.95M	19.608M						
5320MHz	Pass	Inf	22.66M	19.134M						
5500MHz	Pass	Inf	21.725M	19.049M						
5580MHz	Pass	Inf	36.135M	19.492M						
5700MHz	Pass	Inf	22.66M	19.019M						
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	21.54M	14.573M						
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.54M	10.916M						
5745MHz	Pass	500k	19.14M	21.656M						
5785MHz	Pass	500k	19.14M	31.645M						
5825MHz	Pass	500k	19.14M	29.285M						
802.11be EHT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	43.67M	37.989M						
5230MHz	Pass	Inf	44.66M	38.235M						
5270MHz	Pass	Inf	52.03M	38.341M						
5310MHz	Pass	Inf	41.03M	37.953M						
5510MHz	Pass	Inf	40.7M	37.928M						
5550MHz	Pass	Inf	71.39M	38.676M						
5670MHz	Pass	Inf	40.92M	38.091M						
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	48.615M	34.025M						
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.12M	23.481M						
5755MHz	Pass	500k	38.17M	39.636M						
5795MHz	Pass	500k	38.17M	52.571M						
802.11be EHT80_Nss1,(MCS14)_1TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	80.74M	77.753M						
5290MHz	Pass	Inf	82.94M	77.621M						
5530MHz	Pass	Inf	83.82M	78.056M						
5610MHz	Pass	Inf	83.16M	77.708M						
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	118.5M	74.336M						
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	36.868M						
5775MHz	Pass	500k	78.1M	79.874M						
802.11be EHT160_Nss1,(MCS14)_1TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	84.64M	77.242M						
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.08M	77.126M						
5570MHz	Pass	Inf	162.36M	156.636M						
802.11a_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5180MHz	Pass	Inf	21.615M	16.735M	22.605M	16.705M				
5200MHz	Pass	Inf	30.25M	17.595M	34.705M	19.723M				
5240MHz	Pass	Inf	35.695M	18.035M	35.915M	18.945M				
5260MHz	Pass	Inf	22.11M	16.951M	22.055M	16.749M				
5300MHz	Pass	Inf	21.78M	16.718M	22.33M	16.704M				
5320MHz	Pass	Inf	22.165M	17.049M	23.65M	16.894M				
5500MHz	Pass	Inf	21.945M	16.681M	22.275M	16.541M				
5580MHz	Pass	Inf	21.56M	16.663M	21.395M	16.771M				
5700MHz	Pass	Inf	21.67M	16.812M	22.44M	16.741M				
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.185M	13.338M	16.845M	13.648M				
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.28M	4.284M	3.24M	4.413M				
5745MHz	Pass	500k	16.5M	21.495M	16.28M	26.776M				
5785MHz	Pass	500k	16.335M	29.001M	16.335M	29.307M				
5825MHz	Pass	500k	16.555M	29.279M	16.39M	27.722M				
802.11be EHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.725M	18.977M	22.44M	18.973M				
5200MHz	Pass	Inf	30.965M	19.177M	37.18M	19.552M				
5240MHz	Pass	Inf	36.355M	19.5M	37.895M	19.371M				
5260MHz	Pass	Inf	21.01M	18.982M	21.395M	19.279M				
5300MHz	Pass	Inf	20.735M	19.11M	22.11M	19.013M				
5320MHz	Pass	Inf	21.12M	19.045M	21.78M	19.087M				
5500MHz	Pass	Inf	21.56M	18.942M	23.1M	19.028M				
5580MHz	Pass	Inf	21.835M	18.991M	22.33M	19.016M				
5700MHz	Pass	Inf	21.34M	18.98M	22.11M	19M				
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	16.065M	14.569M	17.61M	14.465M				
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.52M	4.72M	4.52M	4.63M				
5745MHz	Pass	500k	19.085M	20.716M	19.195M	26.974M				
5785MHz	Pass	500k	19.03M	30.396M	19.25M	29.883M				
5825MHz	Pass	500k	19.03M	29.073M	19.195M	29.574M				
802.11be EHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.36M	38.248M	43.45M	38.092M				
5230MHz	Pass	Inf	43.12M	37.929M	43.34M	38.185M				
5270MHz	Pass	Inf	40.92M	38.022M	41.91M	38.433M				
5310MHz	Pass	Inf	40.37M	37.897M	42.24M	37.808M				
5510MHz	Pass	Inf	41.47M	37.986M	44.99M	37.875M				
5550MHz	Pass	Inf	41.91M	38.022M	41.91M	37.923M				
5670MHz	Pass	Inf	42.9M	38.098M	40.37M	37.944M				
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	35.42M	33.9M	36.05M	33.882M				
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.04M	4.282M	4.12M	4.608M				
5755MHz	Pass	500k	38.06M	39.164M	38.17M	52.732M				
5795MHz	Pass	500k	38.28M	58.599M	38.28M	58.56M				
802.11be EHT80_Nss1,(MCS14)_2TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.06M	77.417M	81.84M	77.712M				
5290MHz	Pass	Inf	83.82M	77.506M	80.96M	77.544M				
5530MHz	Pass	Inf	82.94M	77.525M	82.94M	77.968M				
5610MHz	Pass	Inf	81.84M	77.687M	82.5M	77.567M				
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	75.15M	73.406M	78.9M	73.397M				
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	12.293M	4.06M	15.546M				
5775MHz	Pass	500k	78.32M	77.752M	78.32M	77.762M				
802.11be EHT160_Nss1,(MCS14)_2TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80M	77.59M	82.16M	77.692M				
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	82.88M	77.608M	80M	77.605M				
5570MHz	Pass	Inf	161.92M	157.094M	167.64M	156.626M				
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.725M	16.76M	21.835M	16.656M	22.935M	16.916M	22.275M	16.752M
5200MHz	Pass	Inf	21.67M	16.589M	23.375M	16.836M	23.375M	16.9M	22.44M	16.749M

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5240MHz	Pass	Inf	21.835M	16.588M	22M	16.82M	21.395M	16.788M	21.56M	16.663M
5260MHz	Pass	Inf	21.89M	16.674M	20.9M	16.536M	21.78M	16.738M	22.22M	16.842M
5300MHz	Pass	Inf	21.725M	16.588M	21.835M	16.628M	21.89M	16.668M	22.33M	16.656M
5320MHz	Pass	Inf	22M	16.561M	22.55M	16.68M	21.89M	16.813M	22.44M	16.539M
5500MHz	Pass	Inf	21.56M	16.544M	21.725M	16.793M	21.45M	16.711M	22.055M	16.85M
5580MHz	Pass	Inf	22.275M	16.673M	21.615M	16.844M	22.275M	16.78M	21.23M	16.804M
5700MHz	Pass	Inf	21.01M	16.678M	22.165M	16.712M	21.835M	16.597M	21.945M	16.744M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.99M	13.389M	15.495M	13.387M	16.17M	13.286M	16.14M	13.328M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	3.26M	4.29M	3.16M	4.249M	3.26M	4.196M	3.28M	4.081M
5745MHz	Pass	500k	16.555M	17.718M	16.5M	20.123M	16.5M	18.951M	16.555M	19.957M
5785MHz	Pass	500k	15.73M	27.841M	16.555M	27.824M	16.555M	23.743M	16.555M	27.592M
5825MHz	Pass	500k	16.5M	28.487M	16.5M	25.728M	16.445M	21.615M	16.555M	28.161M
802.11be EHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.395M	18.98M	21.945M	19.184M	22.11M	19.096M	21.835M	19.127M
5200MHz	Pass	Inf	22.605M	19.1M	23.705M	19.106M	32.23M	19.331M	29.26M	19.126M
5240MHz	Pass	Inf	21.89M	19.064M	23.98M	19.167M	24.42M	19.075M	25.465M	19.108M
5260MHz	Pass	Inf	21.89M	19.073M	21.285M	19.124M	21.725M	18.981M	21.065M	19.042M
5300MHz	Pass	Inf	22.495M	19.095M	21.615M	19.023M	21.89M	18.979M	21.34M	19.004M
5320MHz	Pass	Inf	22.935M	18.967M	21.835M	18.982M	21.285M	19.026M	21.78M	18.992M
5500MHz	Pass	Inf	21.01M	19.018M	22.22M	19.069M	21.23M	19.005M	21.175M	19.001M
5580MHz	Pass	Inf	21.615M	19.085M	22.44M	19.021M	22.44M	19.144M	21.34M	19.072M
5700MHz	Pass	Inf	21.78M	19.011M	21.725M	19.064M	21.56M	19.004M	21.23M	19.157M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	15.69M	14.479M	15.735M	14.526M	15.72M	14.437M	16.305M	14.517M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	4.58M	4.579M	4.54M	4.584M	4.52M	4.572M	4.52M	4.56M
5745MHz	Pass	500k	19.14M	20.475M	19.25M	27.023M	18.205M	20.929M	19.14M	21.322M
5785MHz	Pass	500k	19.085M	31.329M	18.92M	27.114M	19.085M	22.643M	18.26M	28.142M
5825MHz	Pass	500k	19.085M	27.652M	19.085M	27.555M	19.14M	21.689M	19.085M	27.899M
802.11be EHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.36M	38.029M	41.91M	38M	42.46M	37.872M	41.25M	37.875M
5230MHz	Pass	Inf	42.02M	38.024M	44.99M	38.017M	43.23M	37.988M	43.23M	38.064M
5270MHz	Pass	Inf	42.24M	37.923M	42.68M	37.85M	40.7M	38.002M	42.35M	38.129M
5310MHz	Pass	Inf	40.59M	38.016M	40.37M	37.984M	41.03M	38.024M	41.69M	37.988M
5510MHz	Pass	Inf	42.68M	37.93M	42.57M	38.343M	42.57M	38.222M	41.03M	37.946M
5550MHz	Pass	Inf	40.7M	38.15M	40.92M	37.948M	41.58M	38.021M	43.23M	37.932M
5670MHz	Pass	Inf	42.46M	37.948M	42.13M	38.162M	40.59M	38.018M	40.92M	37.842M
5710MHz Straddle 5.47-5.725GHz	Pass	Inf	36.33M	33.76M	36.015M	33.664M	36.085M	33.924M	36.505M	33.76M
5710MHz Straddle 5.725-5.85GHz	Pass	500k	4.06M	4.18M	4.1M	4.388M	4.1M	4.146M	4.06M	4.258M
5755MHz	Pass	500k	38.17M	39.751M	38.17M	49.217M	38.06M	38.972M	38.17M	41.985M
5795MHz	Pass	500k	38.28M	56.413M	38.17M	51.262M	38.17M	44.256M	38.28M	49.52M
802.11be EHT80_Nss1,(MCS14)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	83.38M	77.384M	81.18M	77.921M	84.26M	77.713M	80.74M	77.719M
5290MHz	Pass	Inf	81.18M	77.762M	82.94M	77.708M	84.48M	78.018M	84.04M	77.575M
5530MHz	Pass	Inf	80.3M	78.021M	82.94M	77.602M	83.38M	77.521M	81.18M	77.631M
5610MHz	Pass	Inf	83.38M	77.622M	84.92M	77.66M	84.48M	77.562M	81.84M	77.349M
5690MHz Straddle 5.47-5.725GHz	Pass	Inf	77.85M	73.641M	75.075M	73.358M	77.925M	73.3M	74.925M	73.412M
5690MHz Straddle 5.725-5.85GHz	Pass	500k	4.08M	4.185M	4.1M	4.096M	4.12M	4.249M	4.06M	4.329M
5775MHz	Pass	500k	78.1M	78.091M	78.1M	77.742M	78.1M	77.588M	77.66M	77.766M
802.11be EHT160_Nss1,(MCS14)_4TX	-	-	-	-	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	80.24M	77.524M	80.72M	77.972M	84.48M	77.642M	82.56M	77.603M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	80.32M	77.404M	84.72M	77.47M	80.08M	77.321M	80.08M	77.428M
5570MHz	Pass	Inf	161.92M	157.003M	165M	156.055M	165M	156.647M	164.12M	156.774M

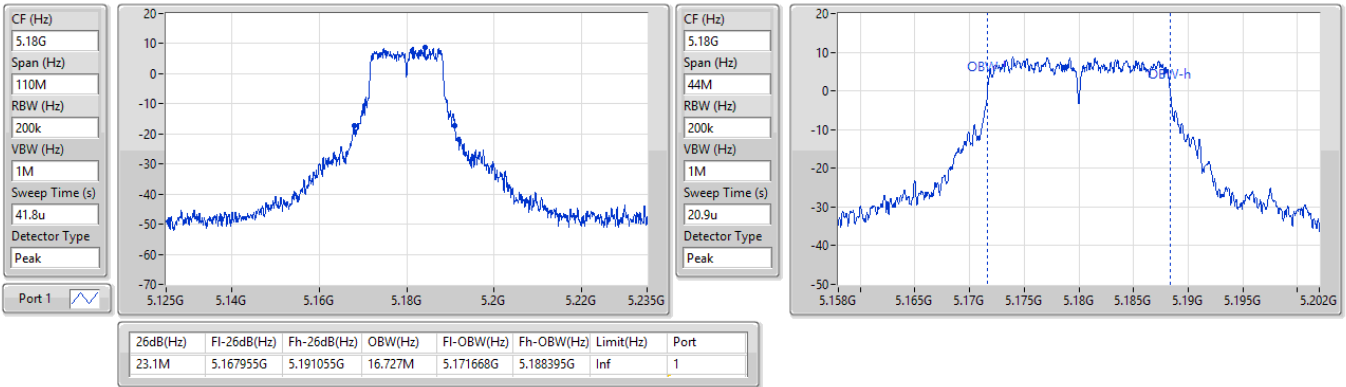
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band  
Port X-OBW = Port X 99% occupied bandwidth

5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5180MHz

16/04/2024

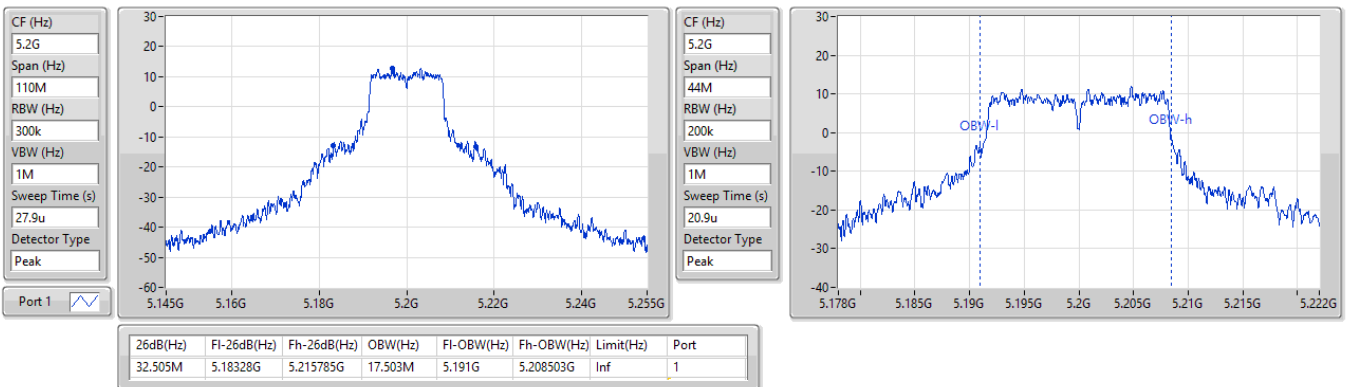


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5200MHz

16/04/2024



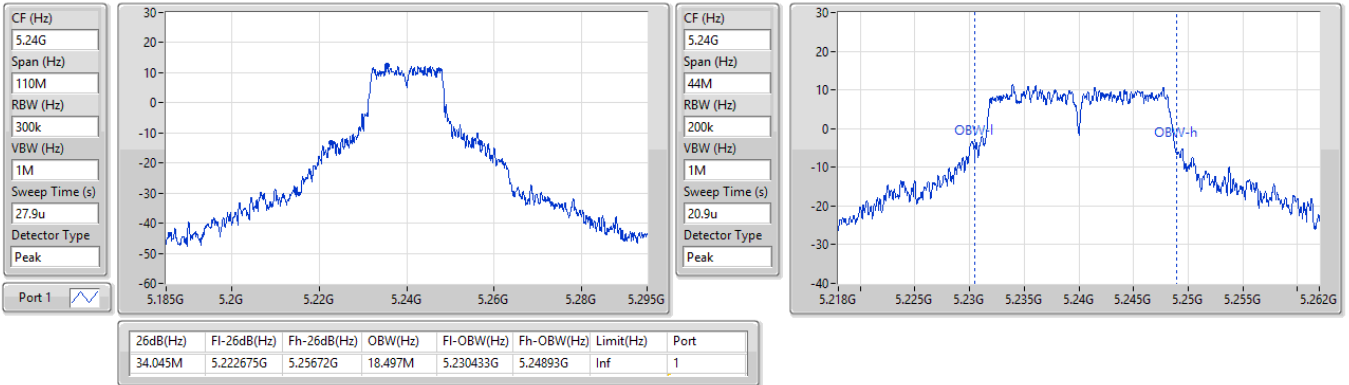


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5240MHz

16/04/2024

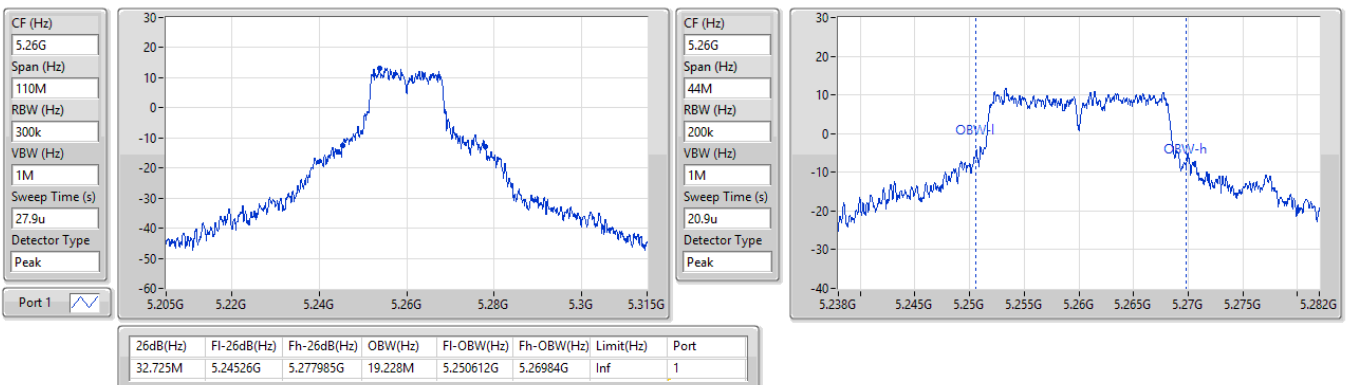


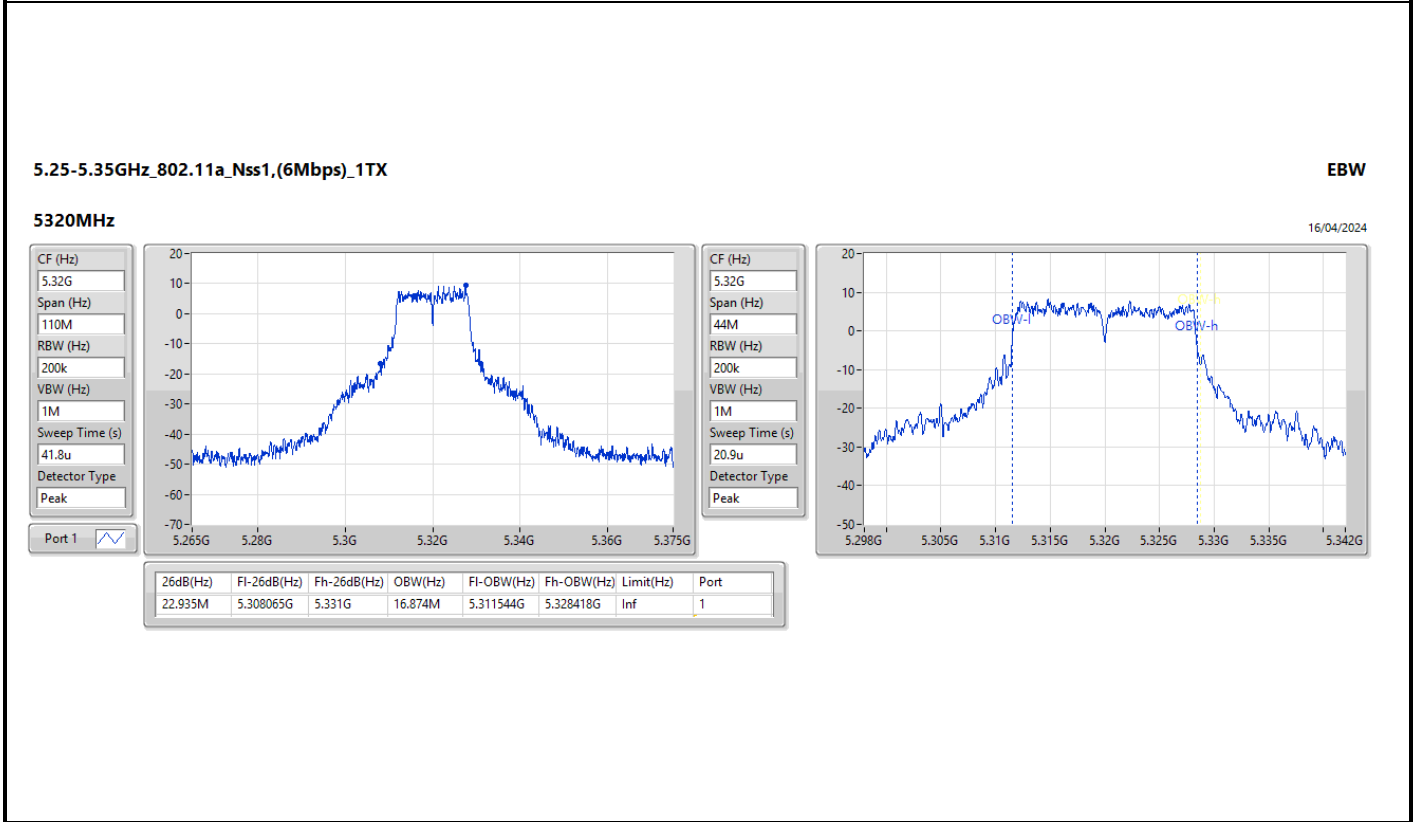
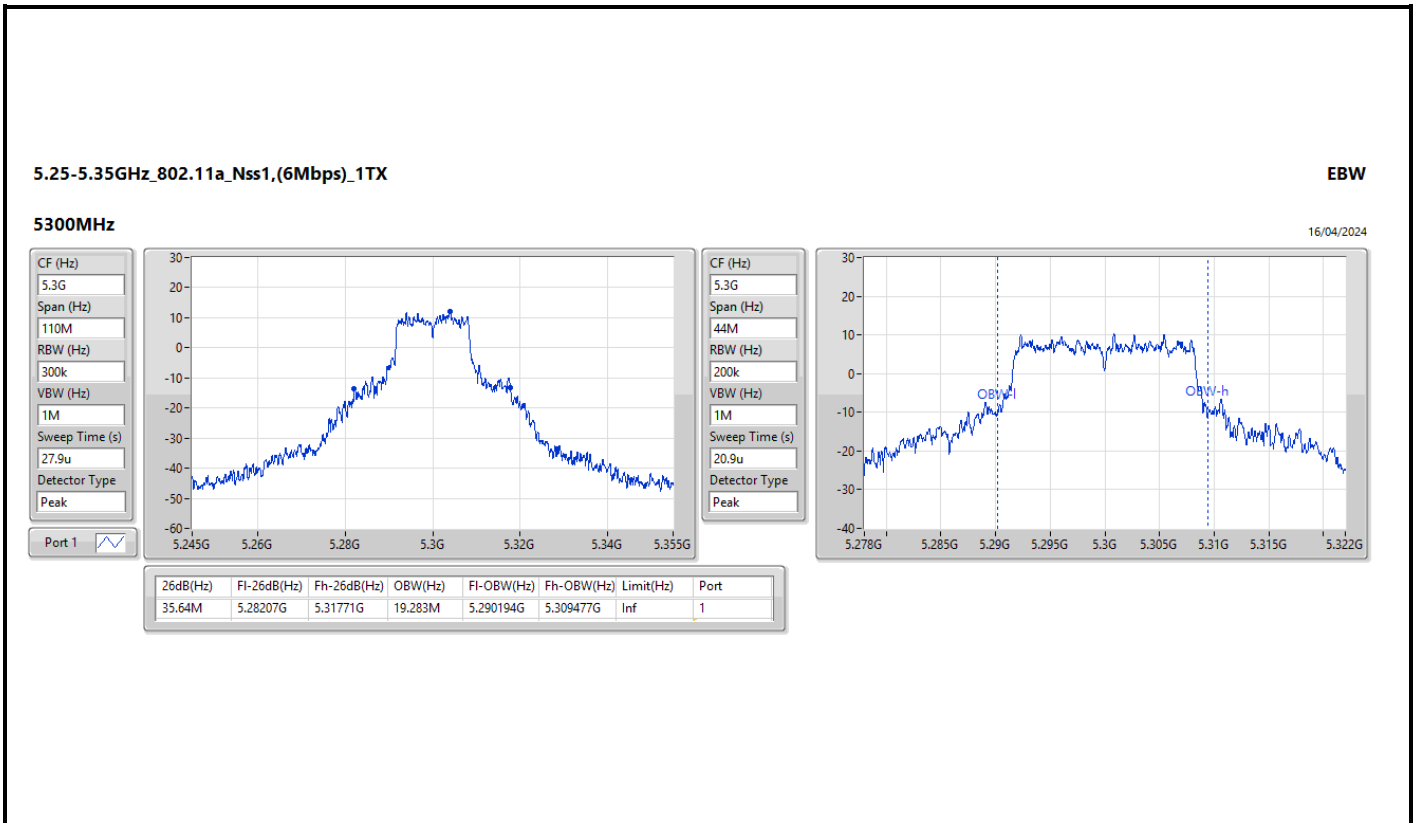
5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5260MHz

16/04/2024



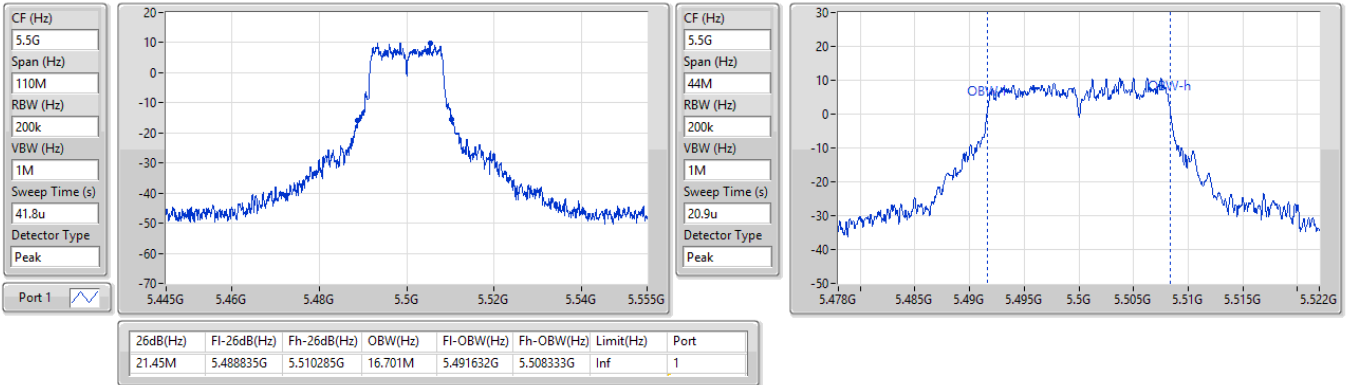


5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_1TX

EBW

5500MHz

16/04/2024

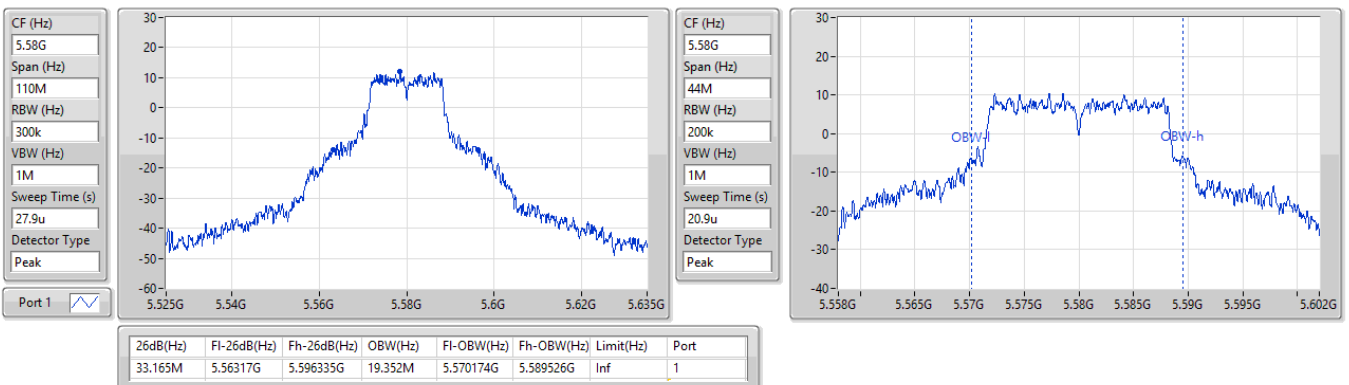


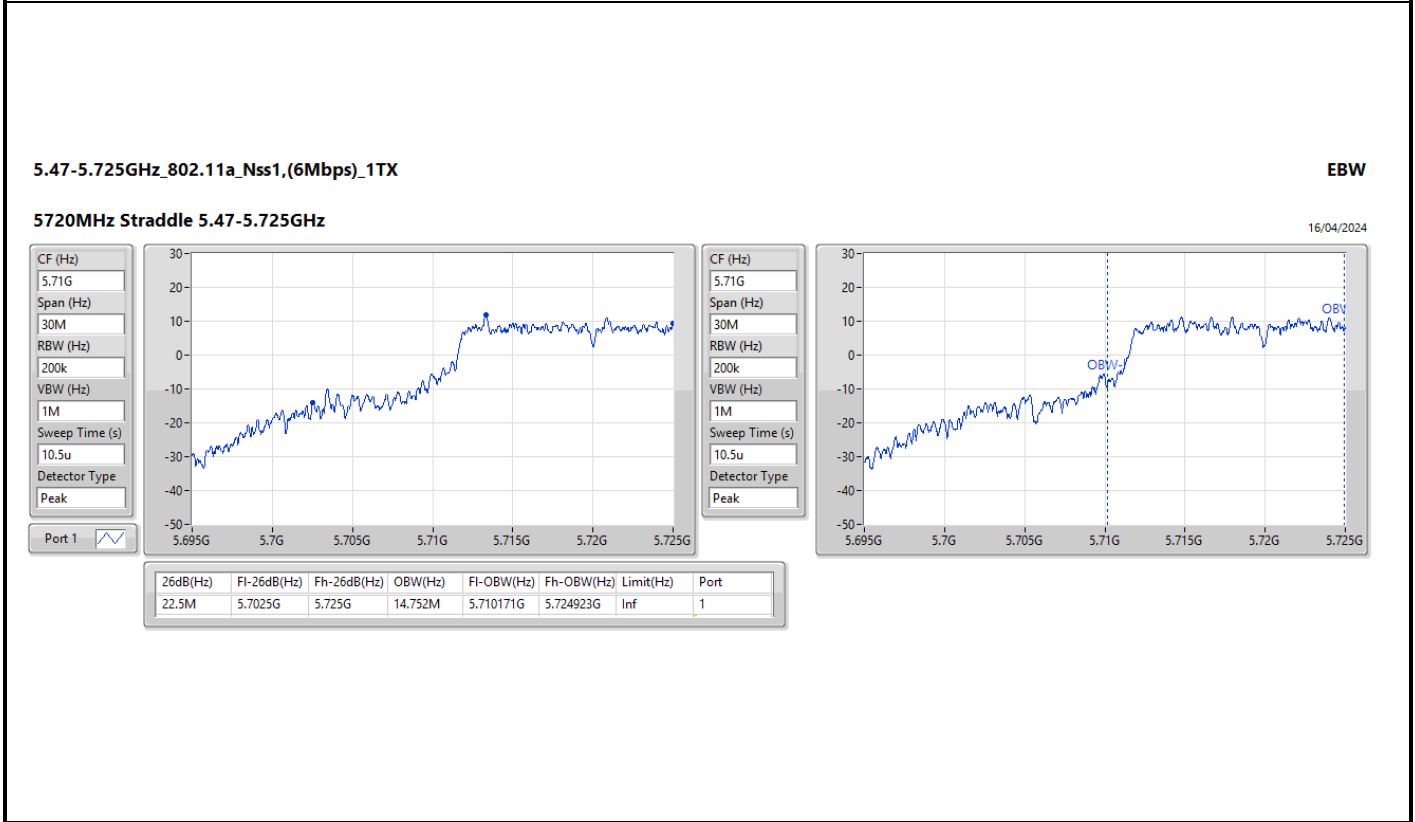
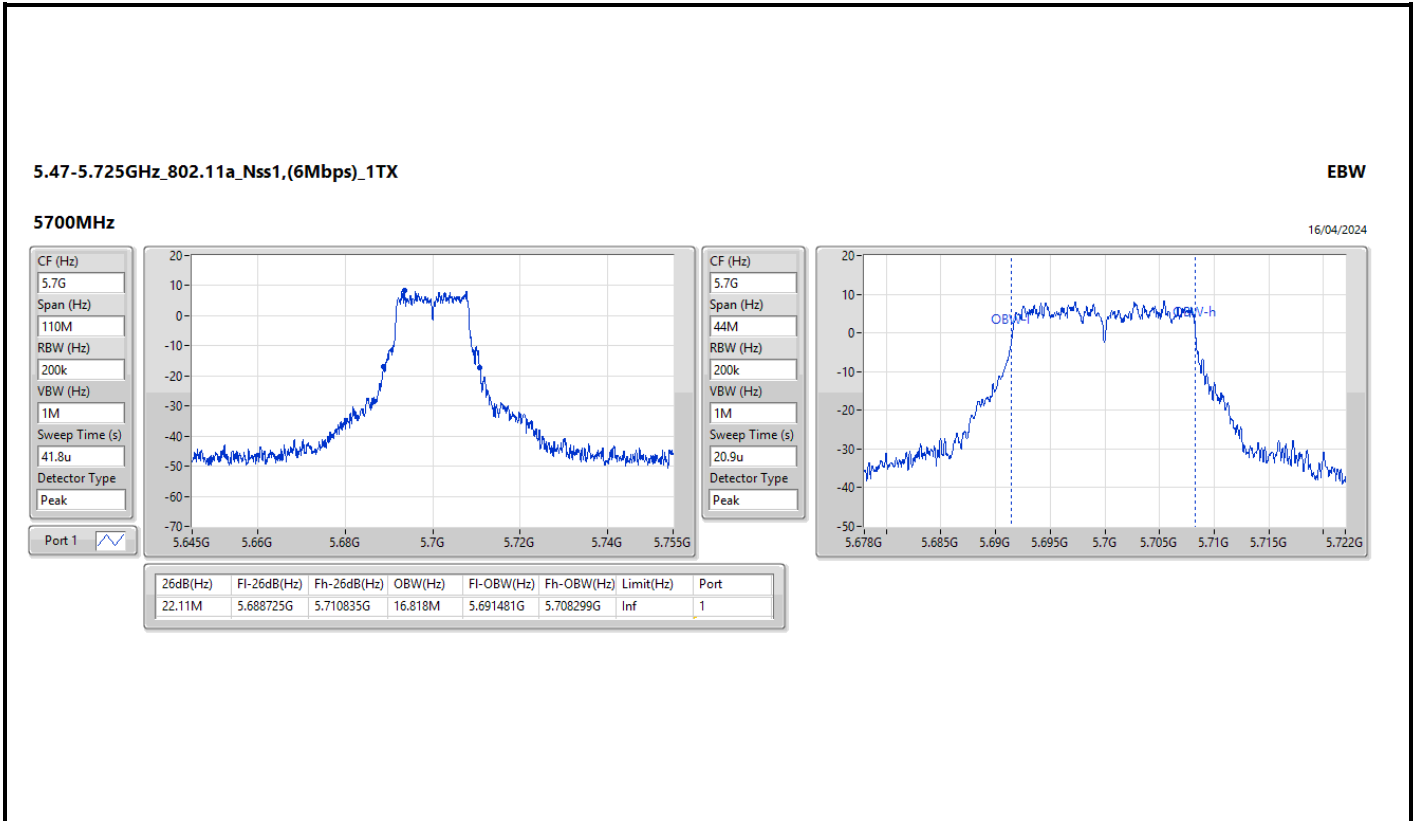
5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_1TX

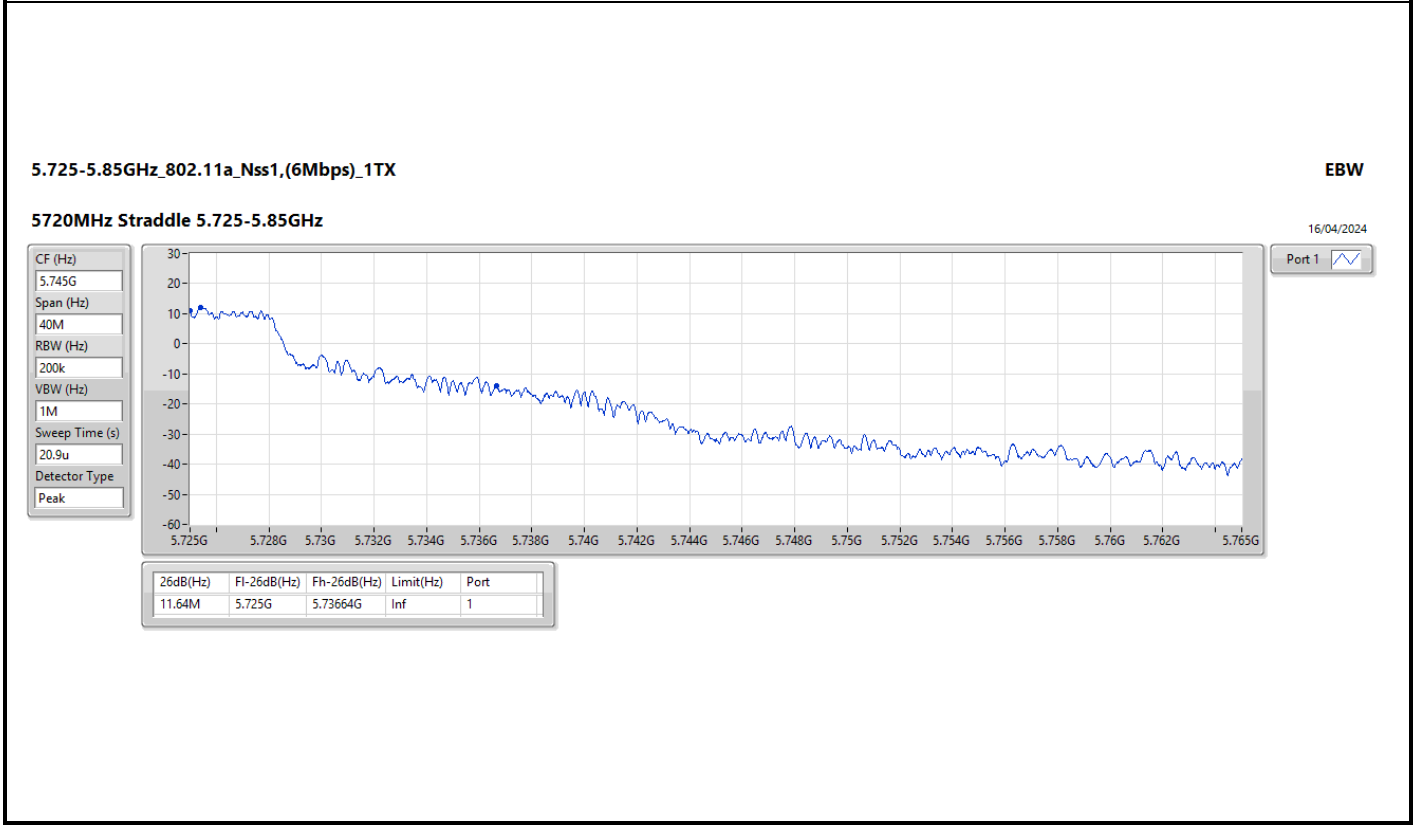
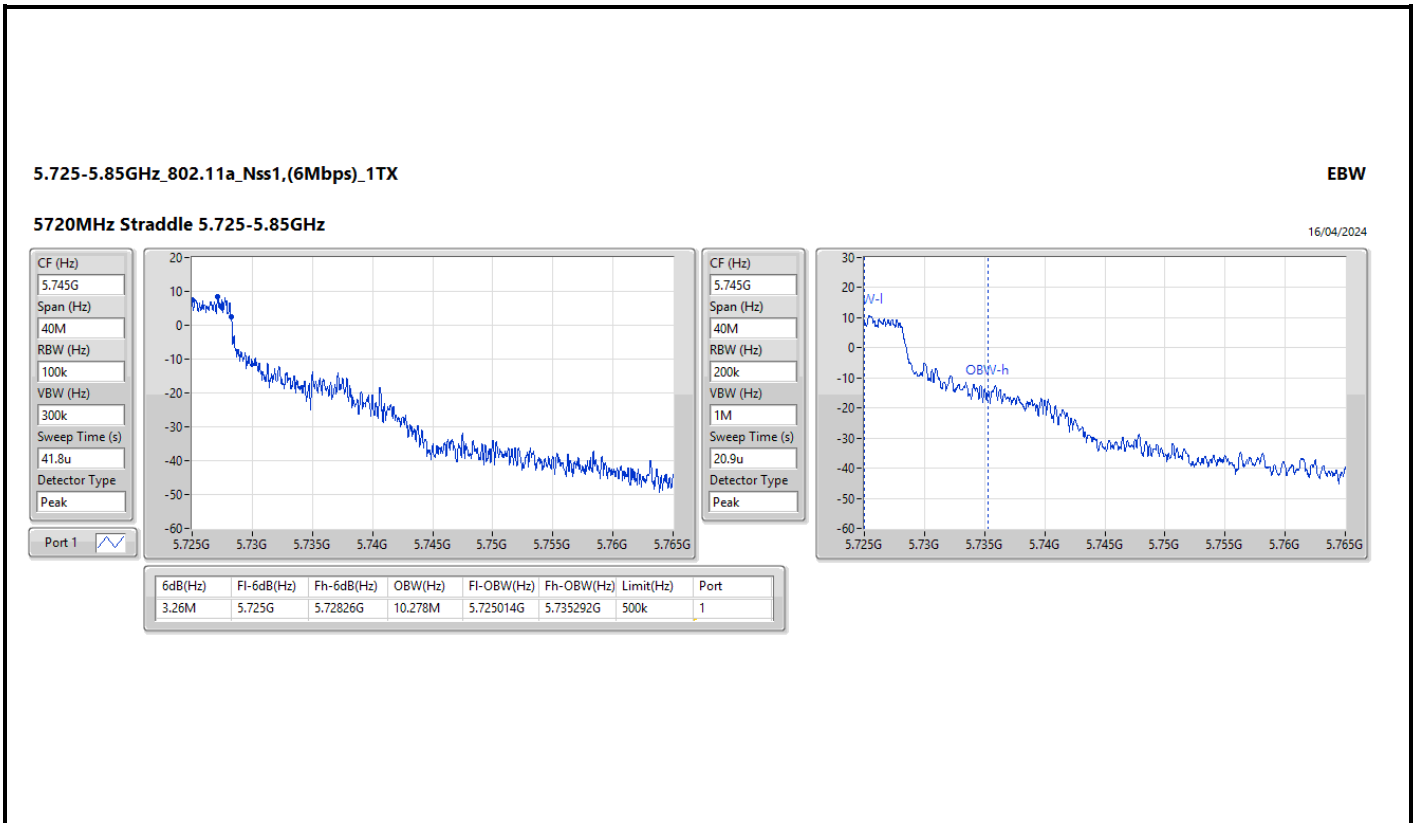
EBW

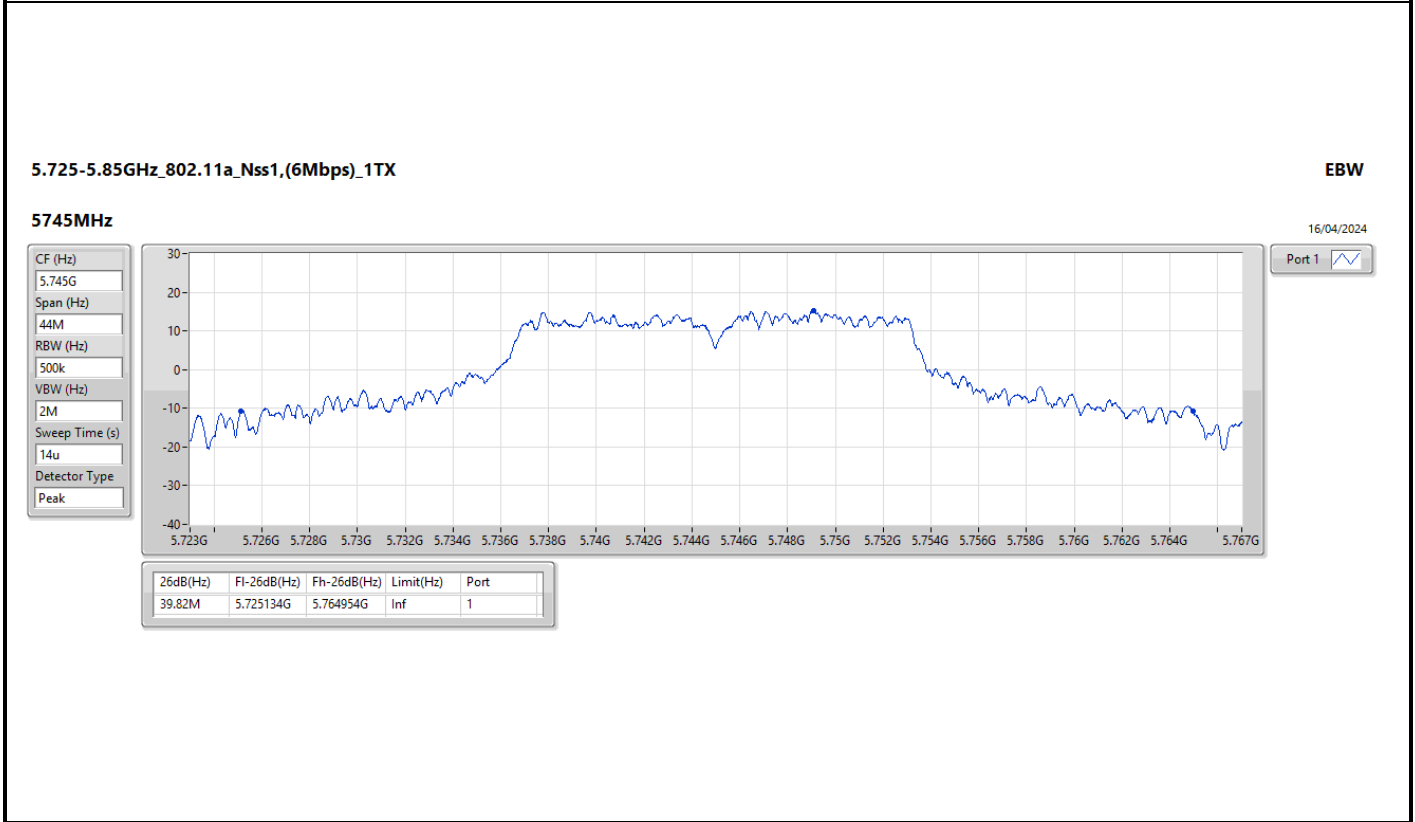
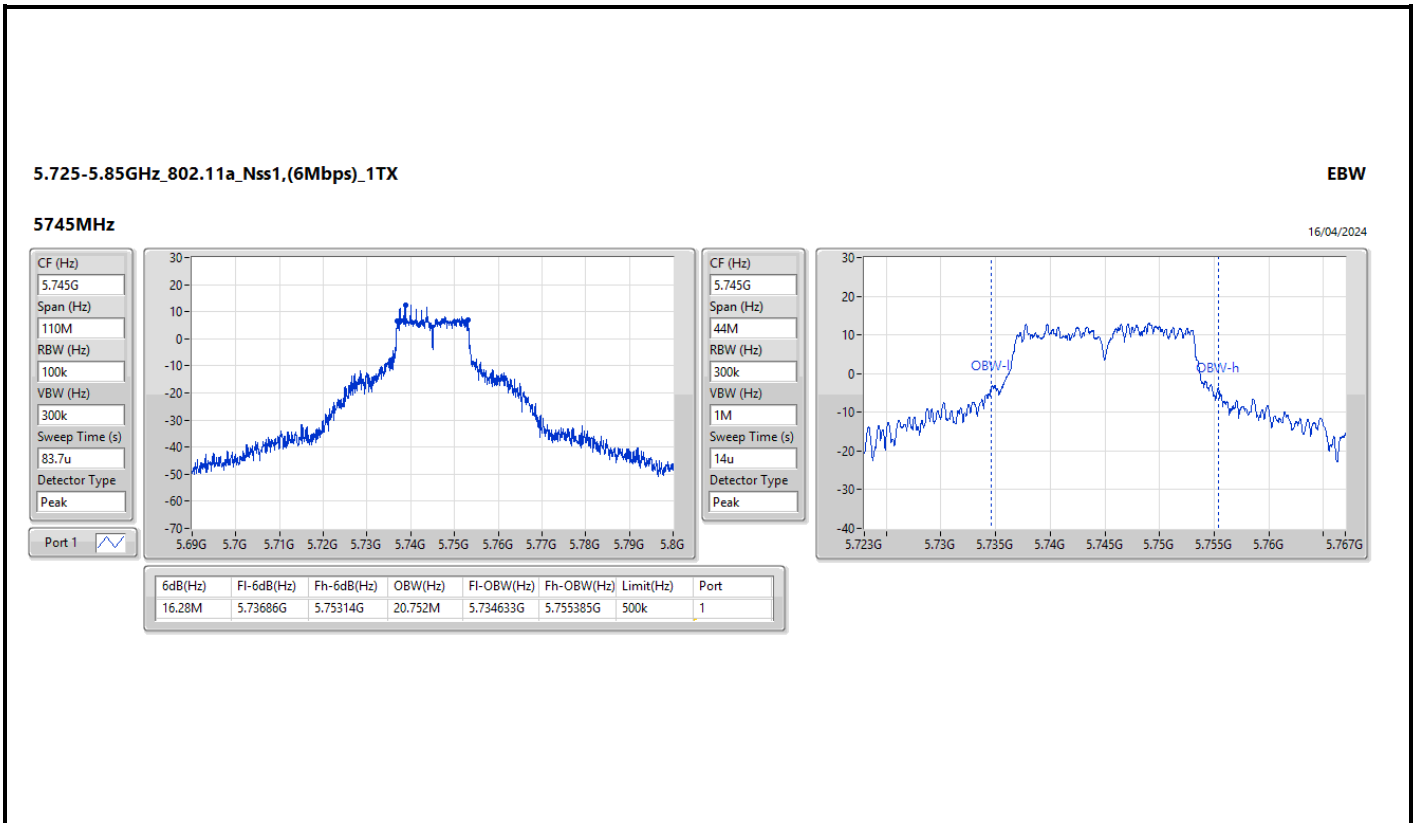
5580MHz

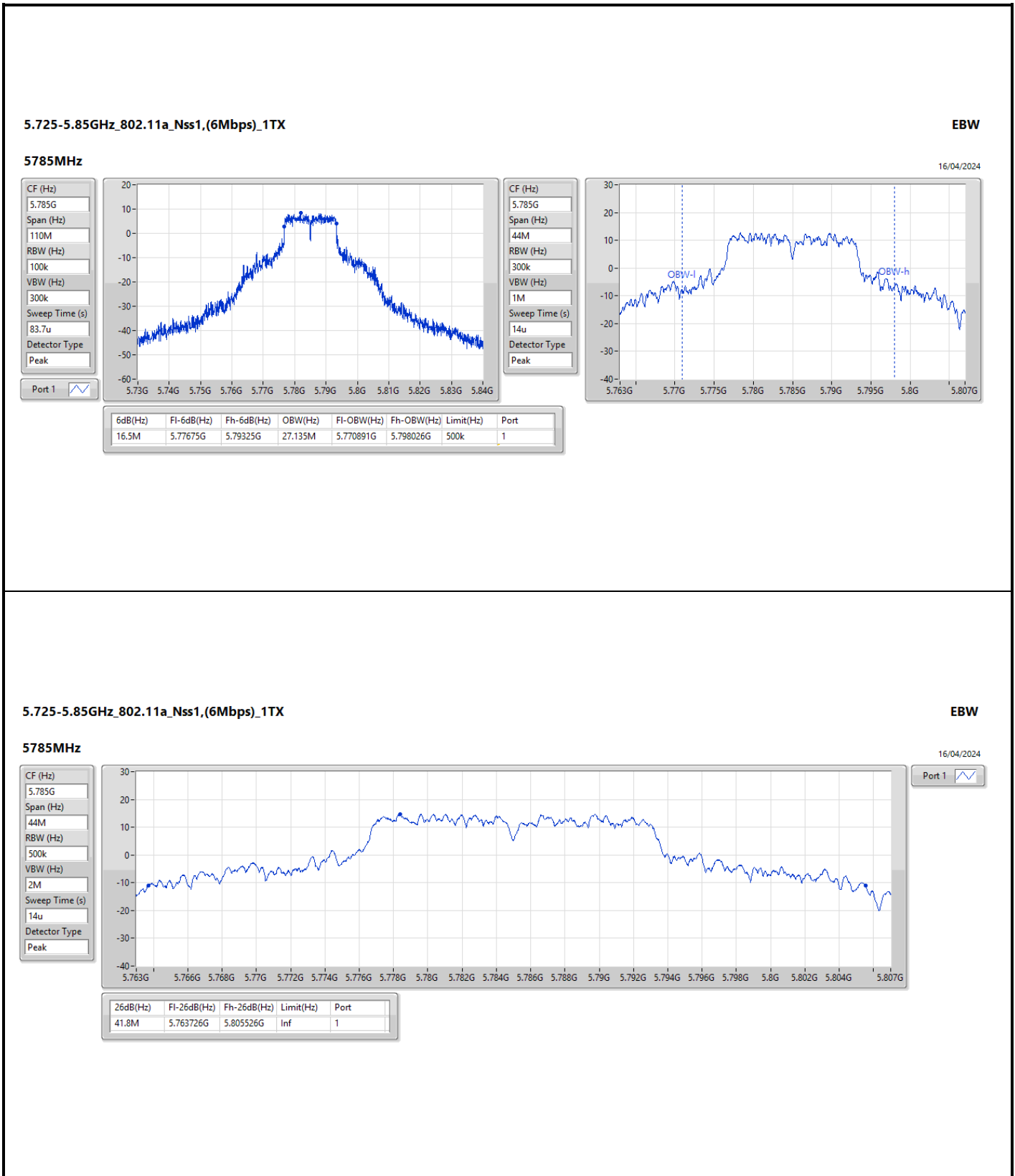
16/04/2024

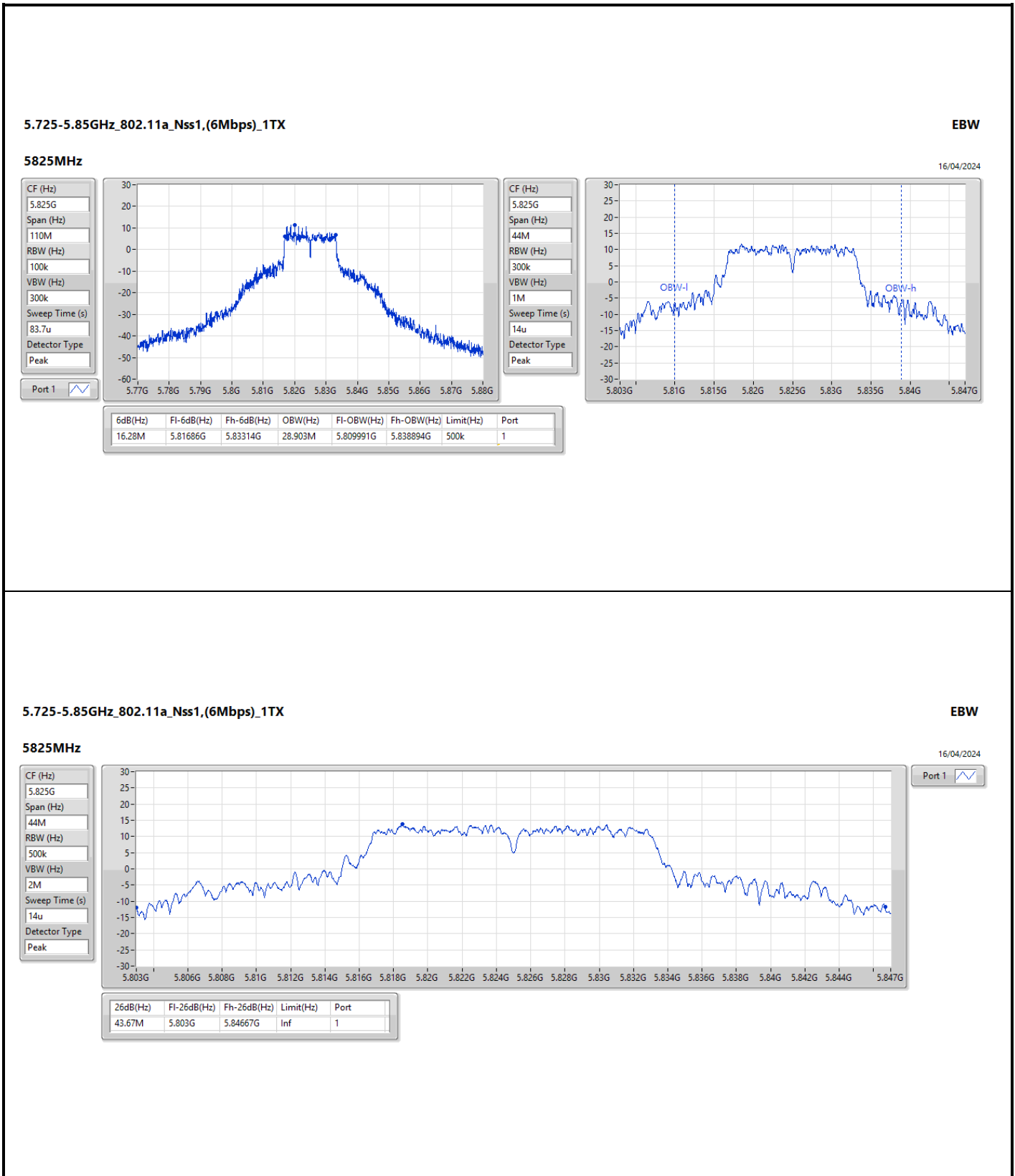












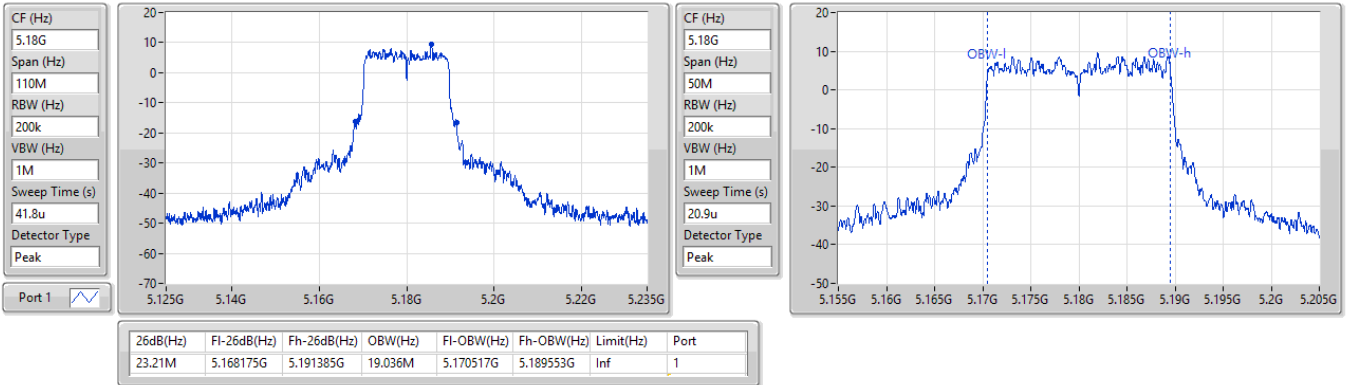


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5180MHz

16/04/2024

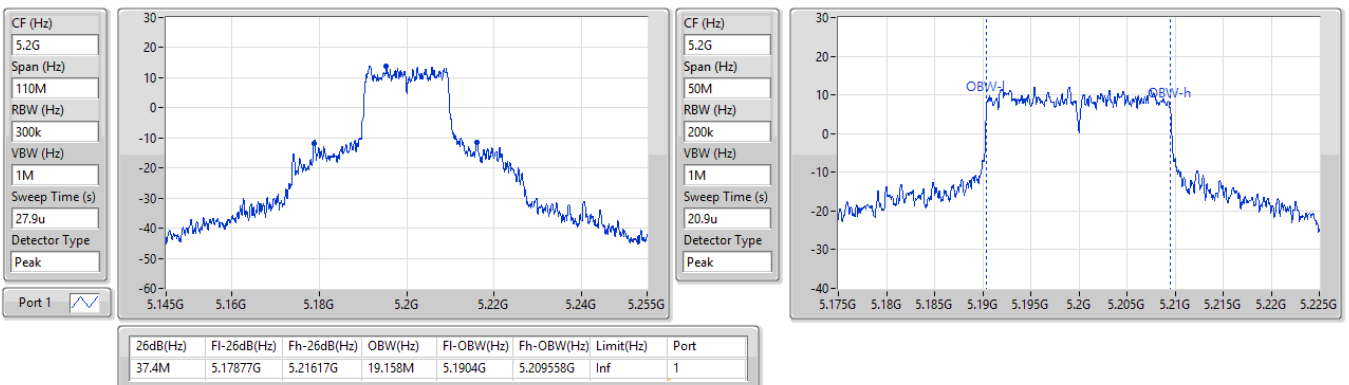


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5200MHz

16/04/2024

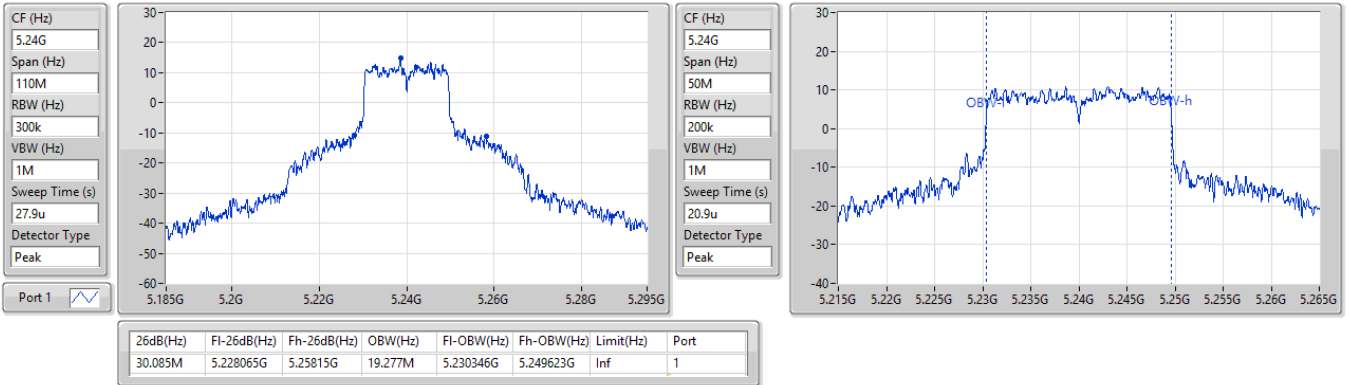


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5240MHz

16/04/2024

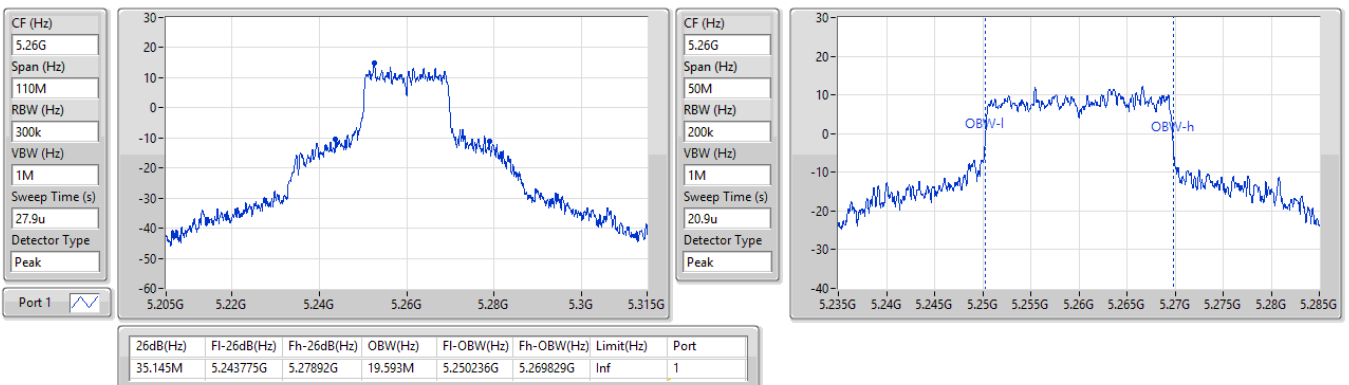


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5260MHz

16/04/2024

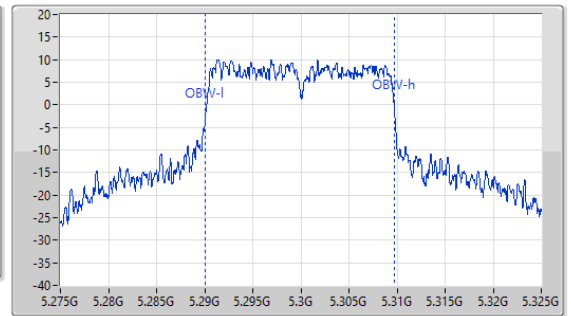
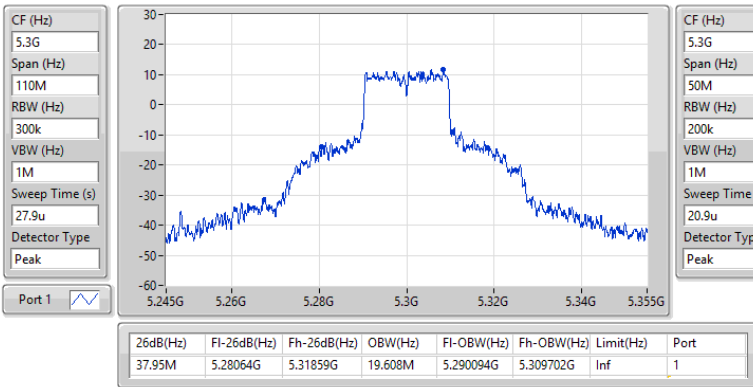


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5300MHz

16/04/2024

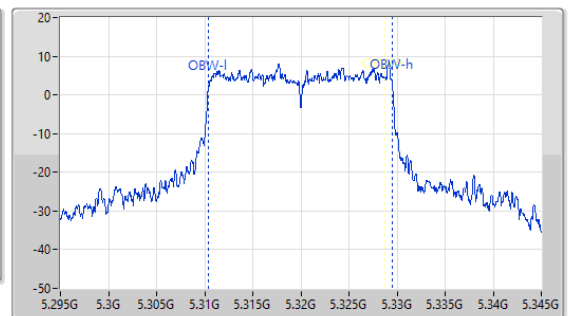
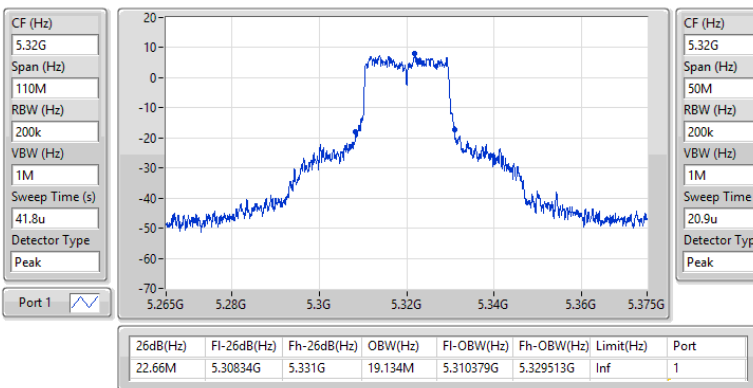


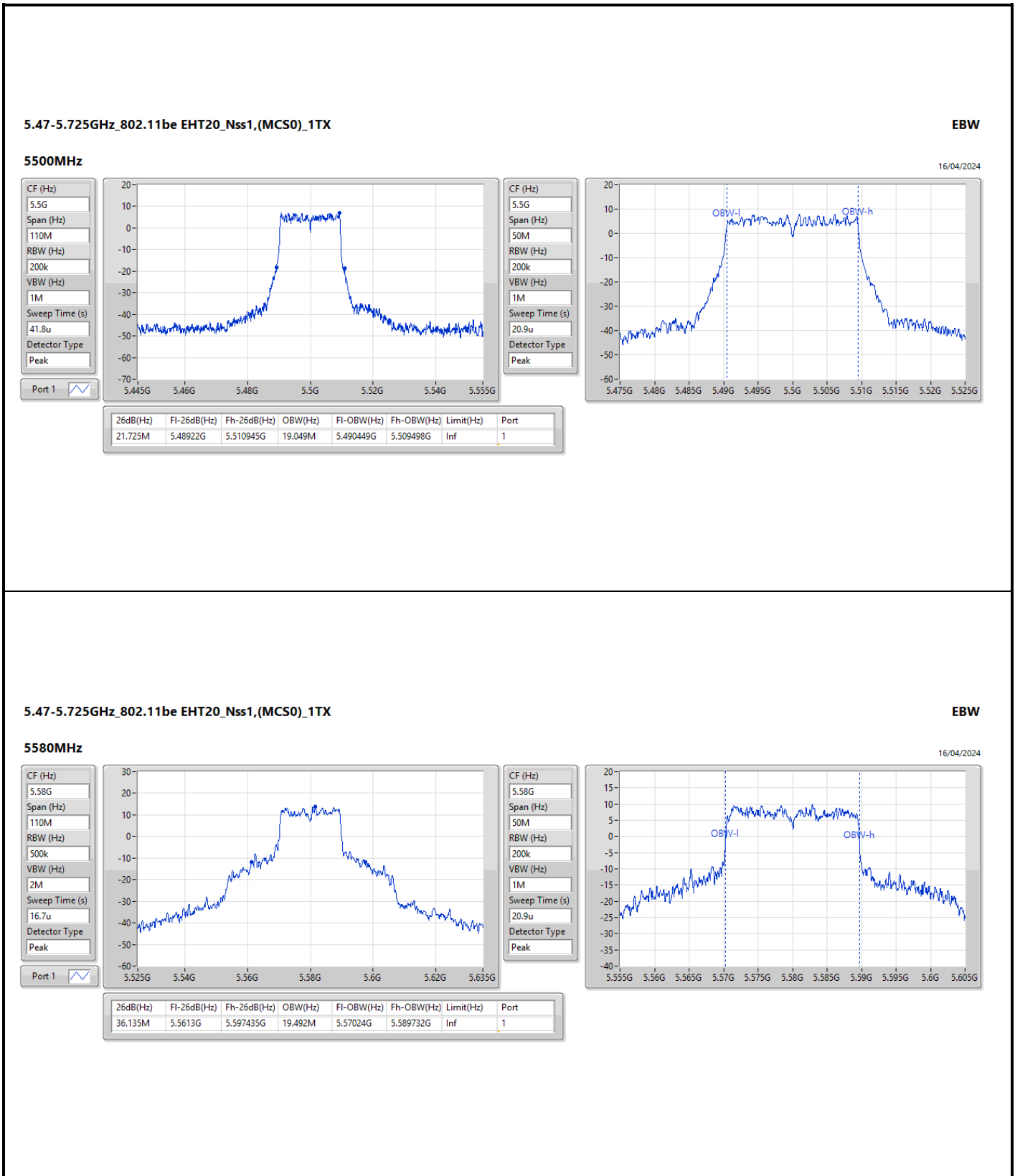
5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5320MHz

16/04/2024



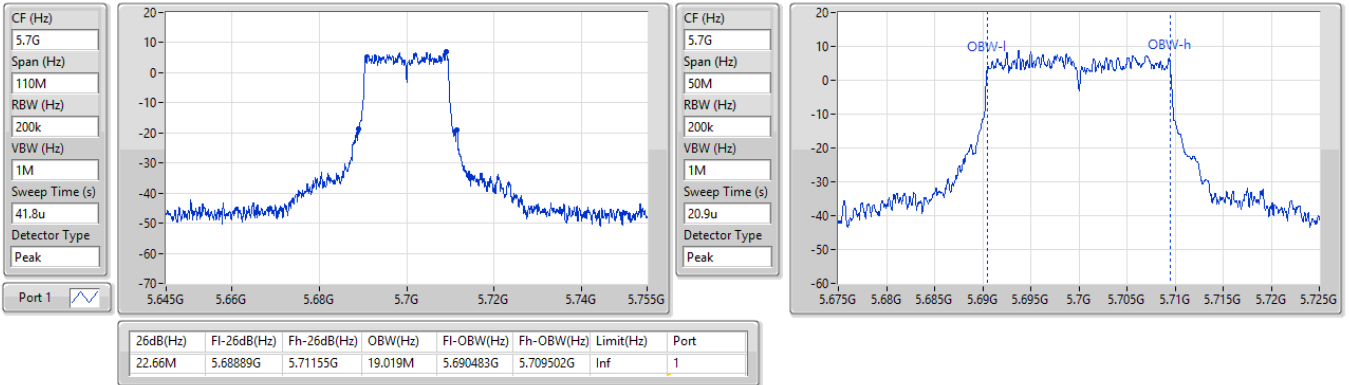


5.47-5.725GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

EBW

5700MHz

16/04/2024

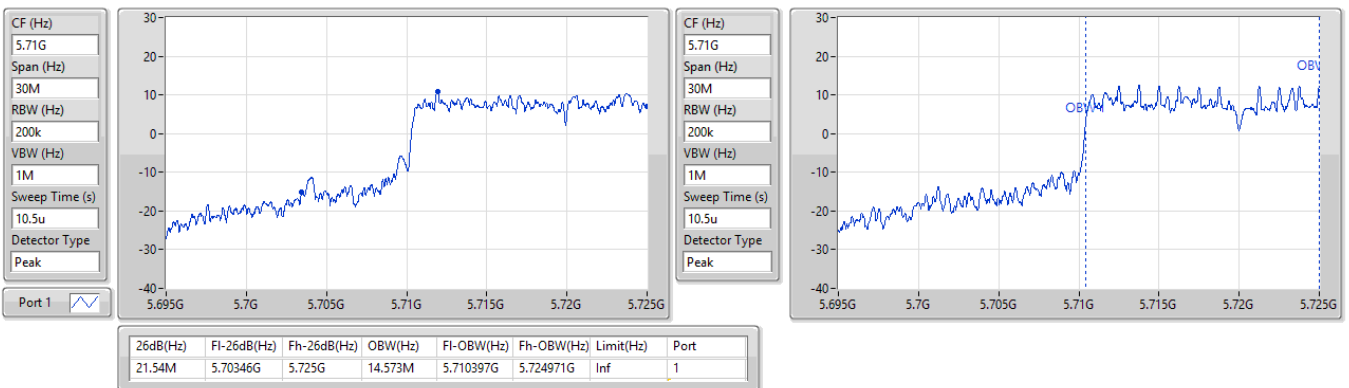


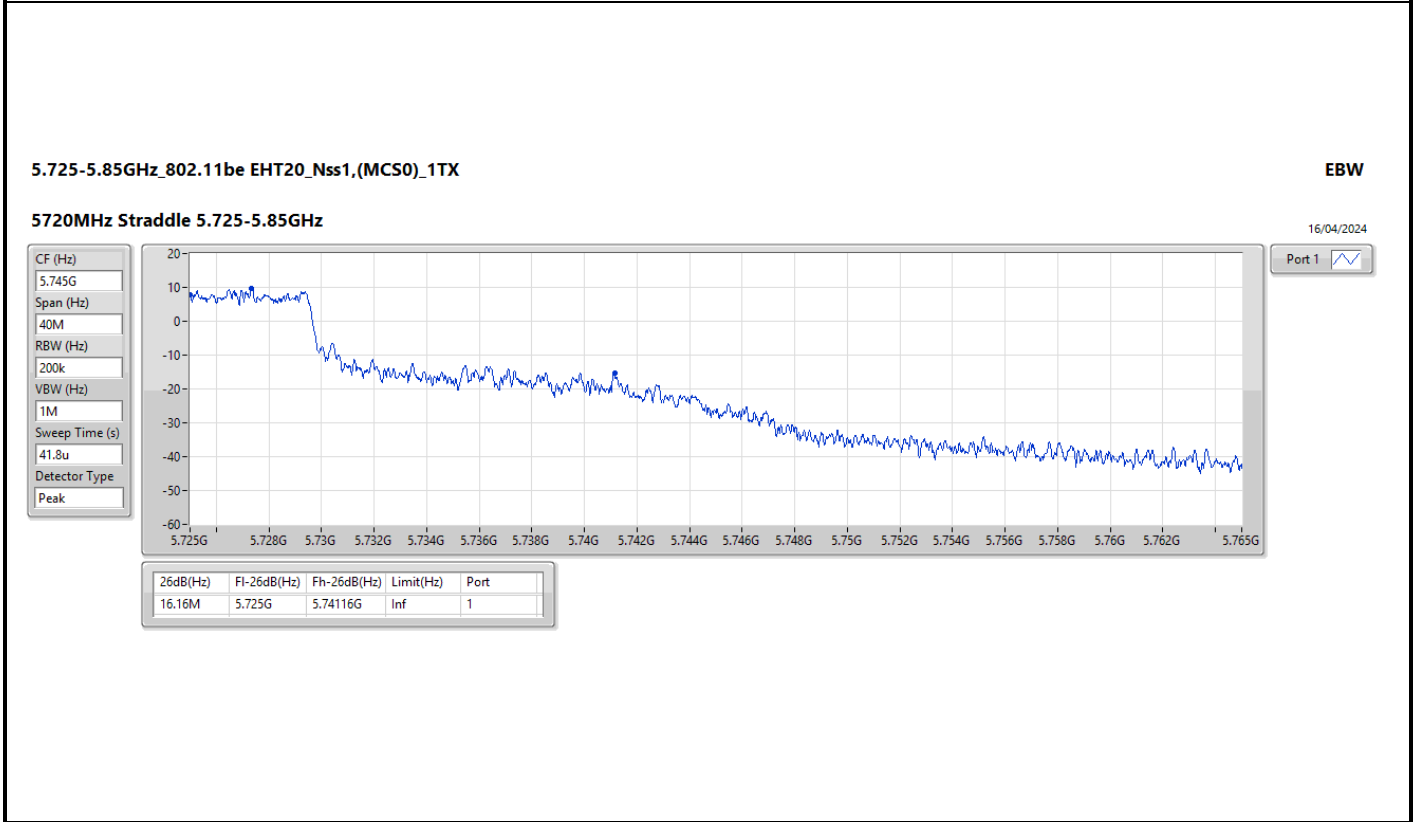
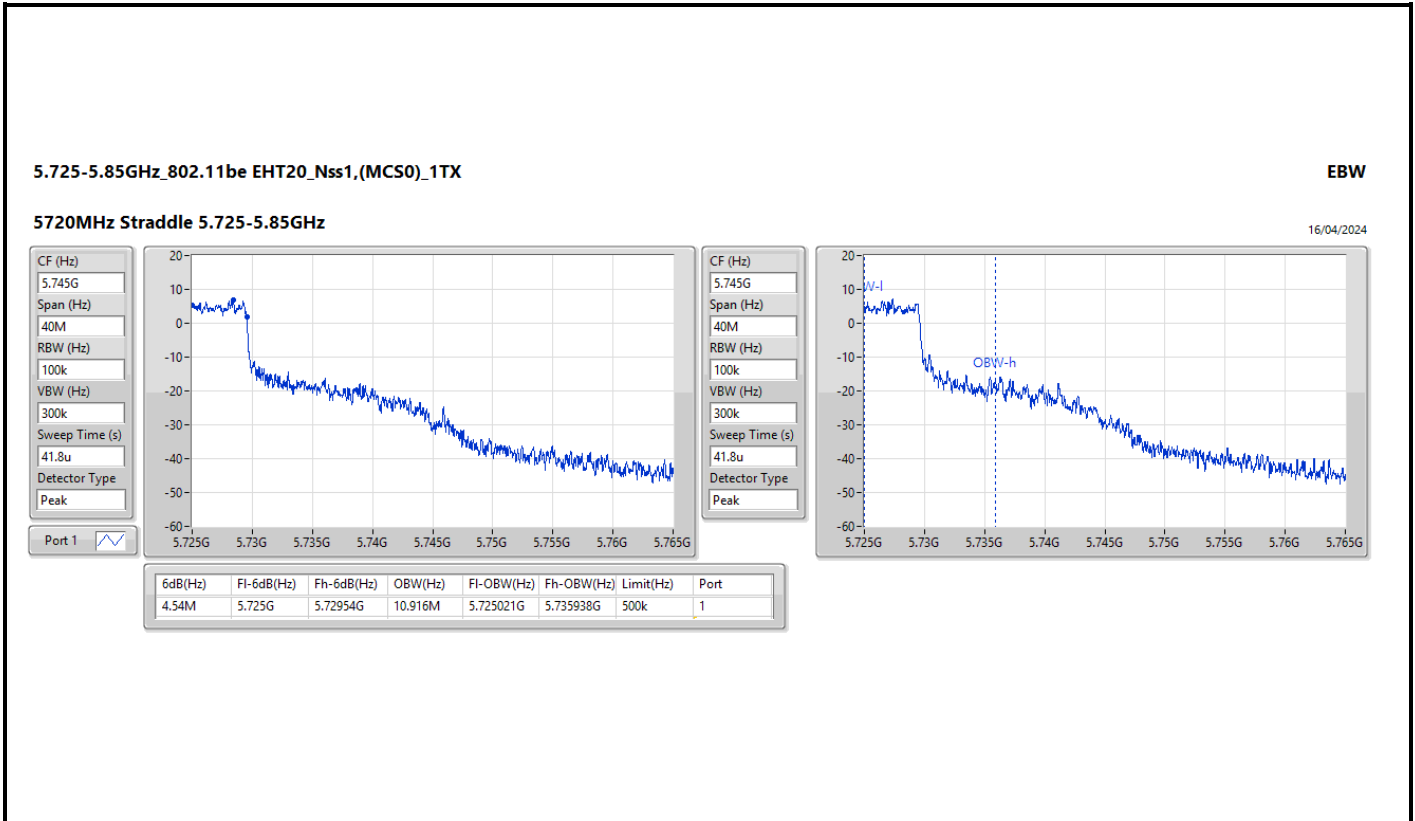
5.47-5.725GHz\_802.11be EHT20\_Nss1,(MCS0)\_1TX

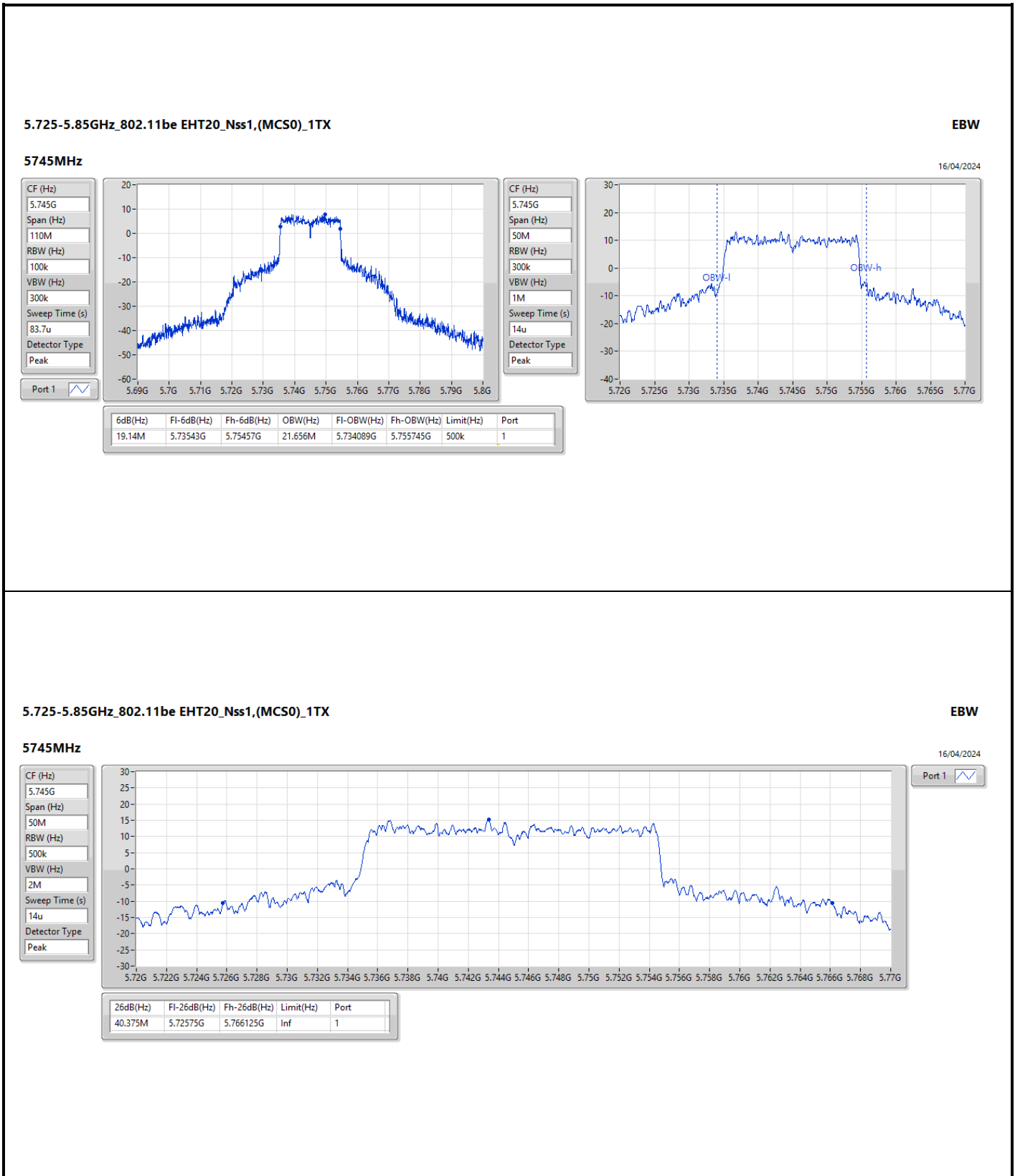
EBW

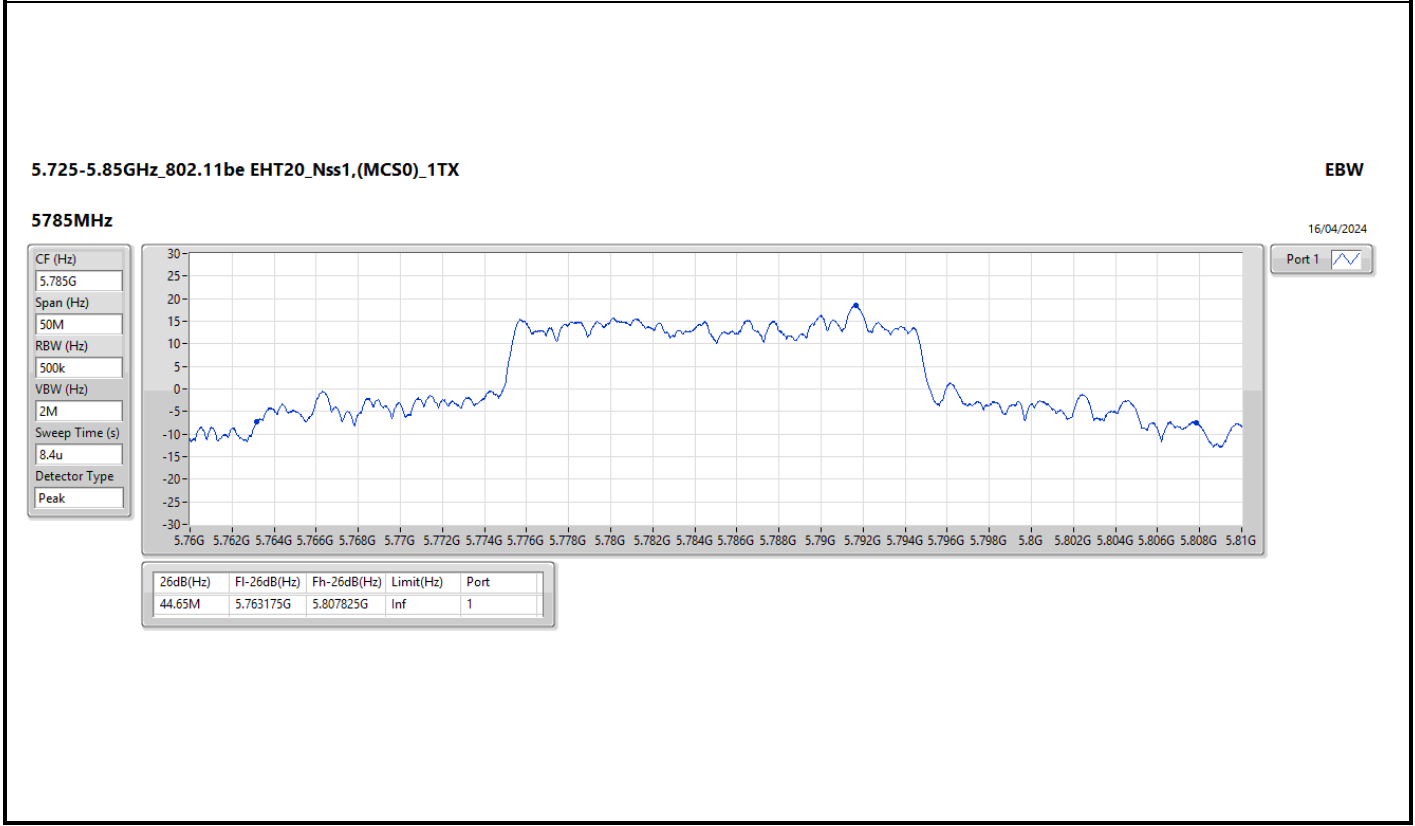
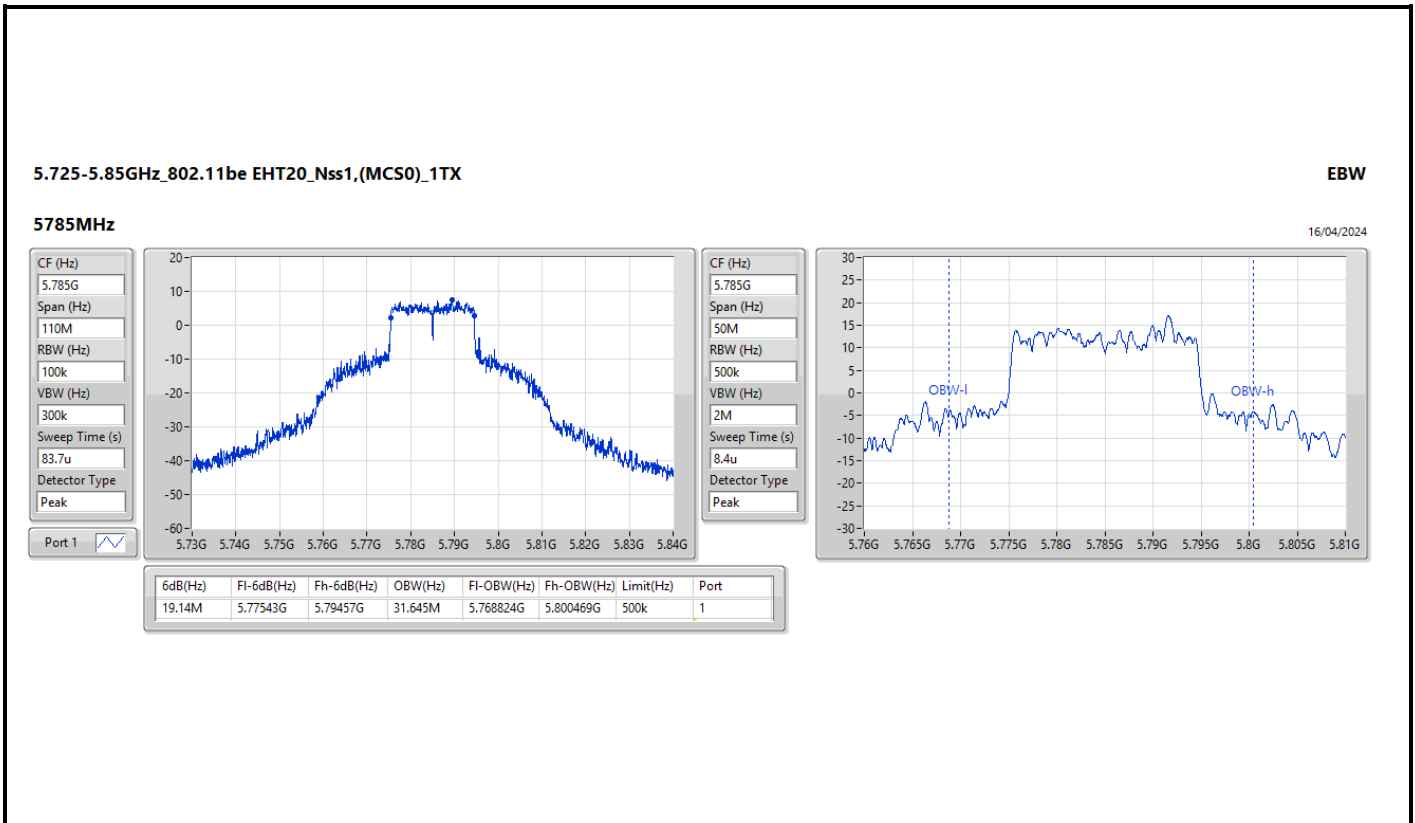
5720MHz Straddle 5.47-5.725GHz

16/04/2024

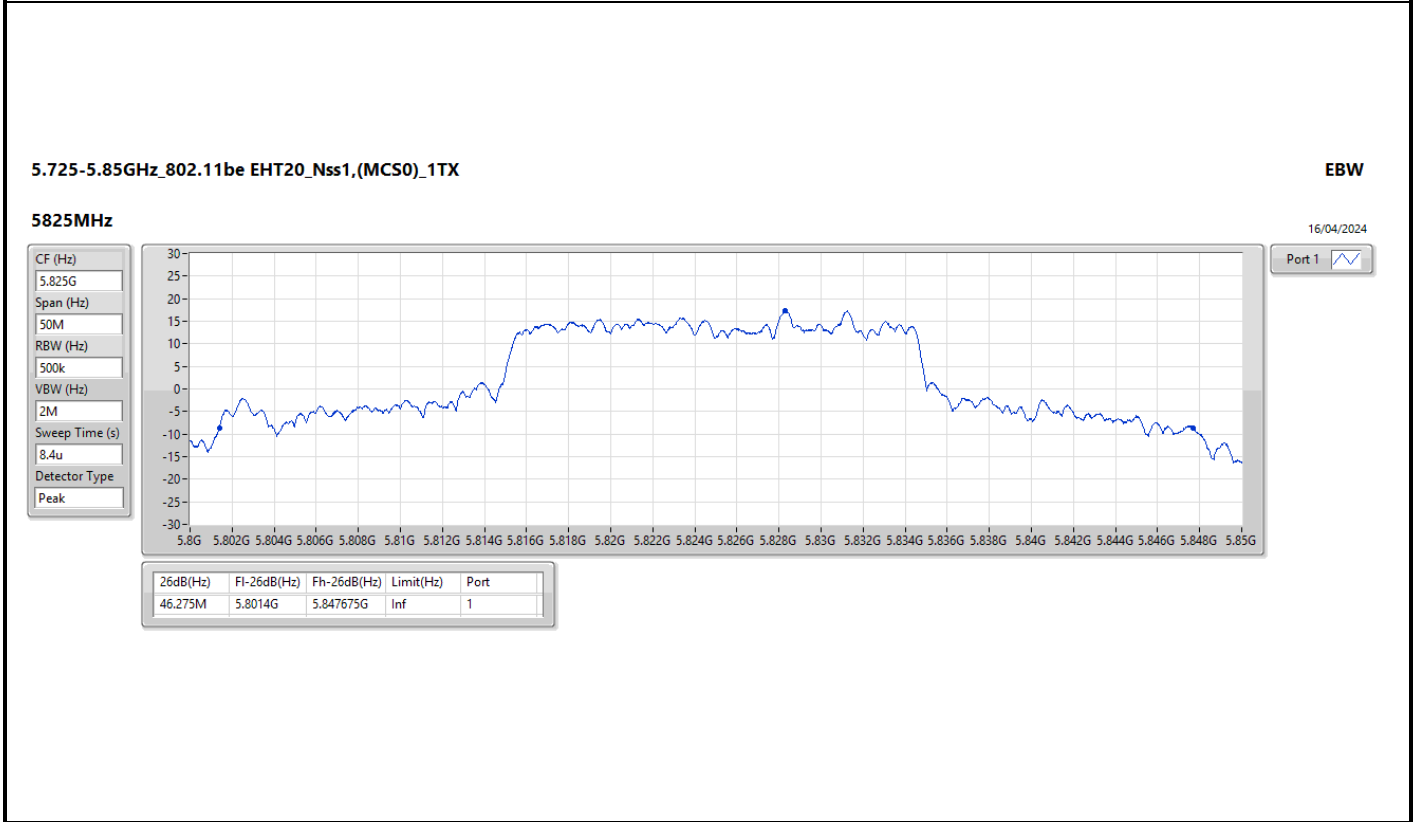
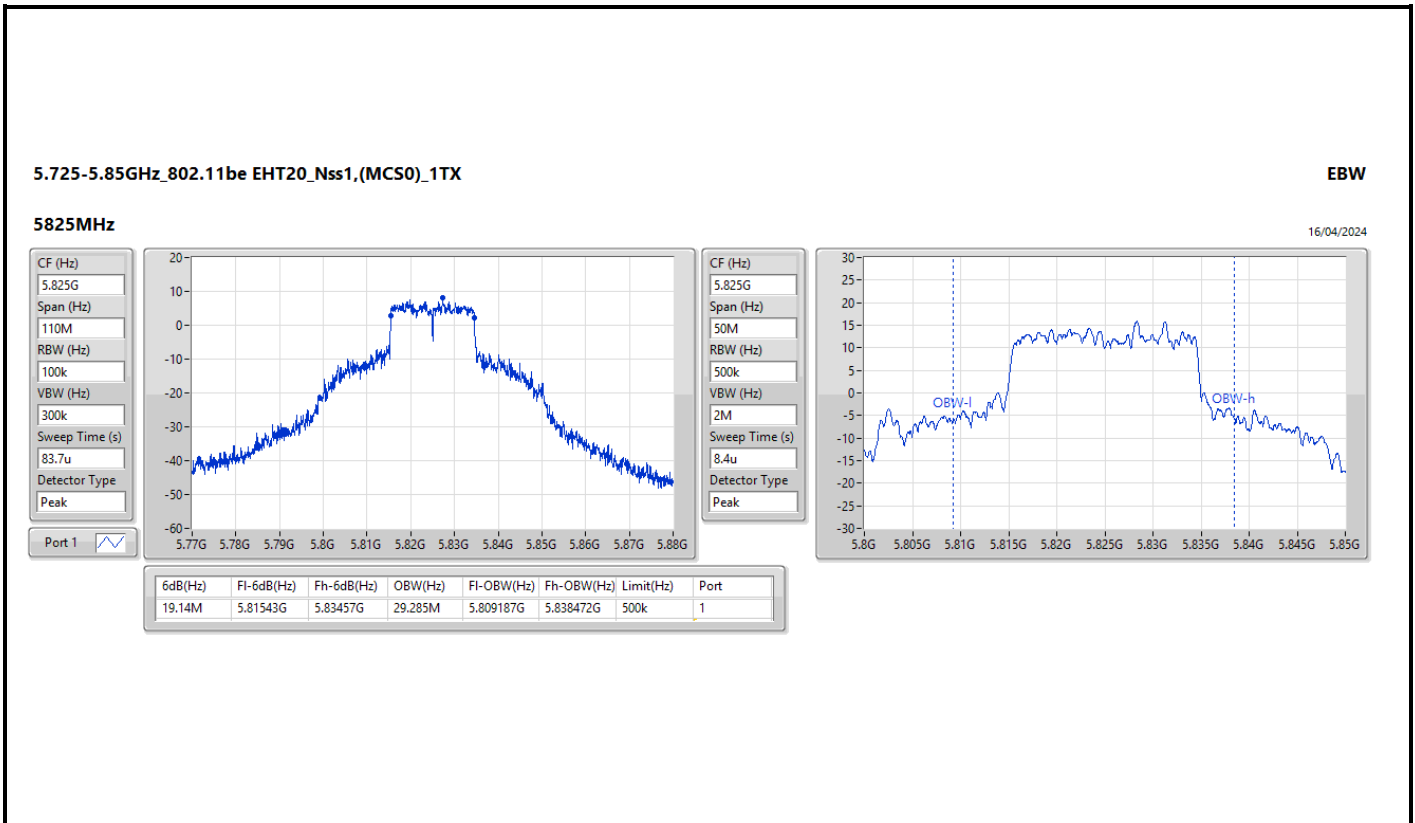










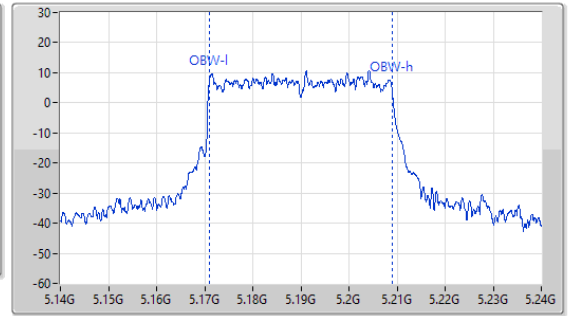
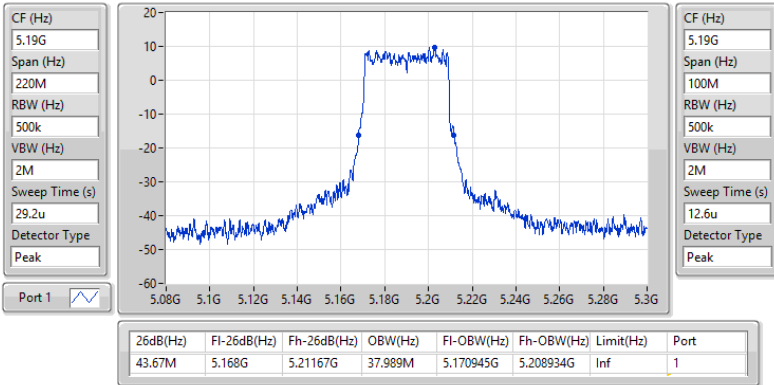


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

EBW

5190MHz

16/04/2024

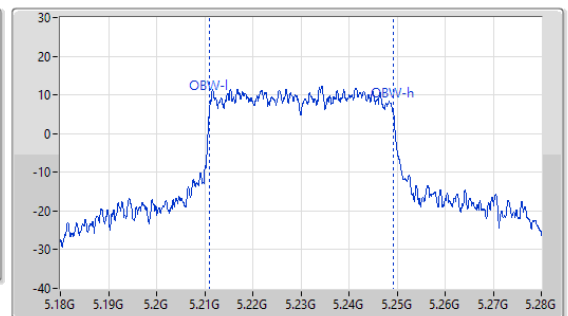
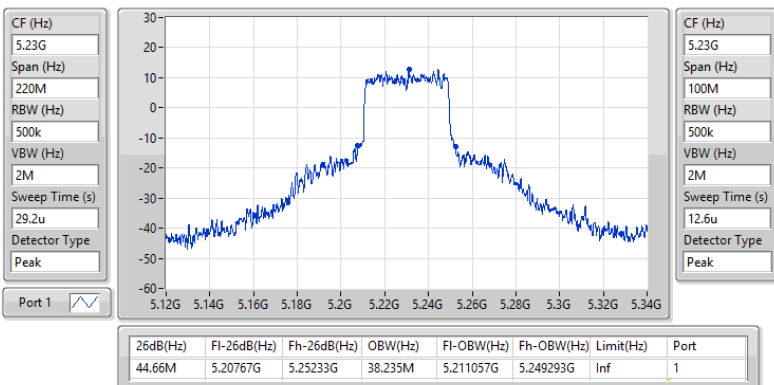


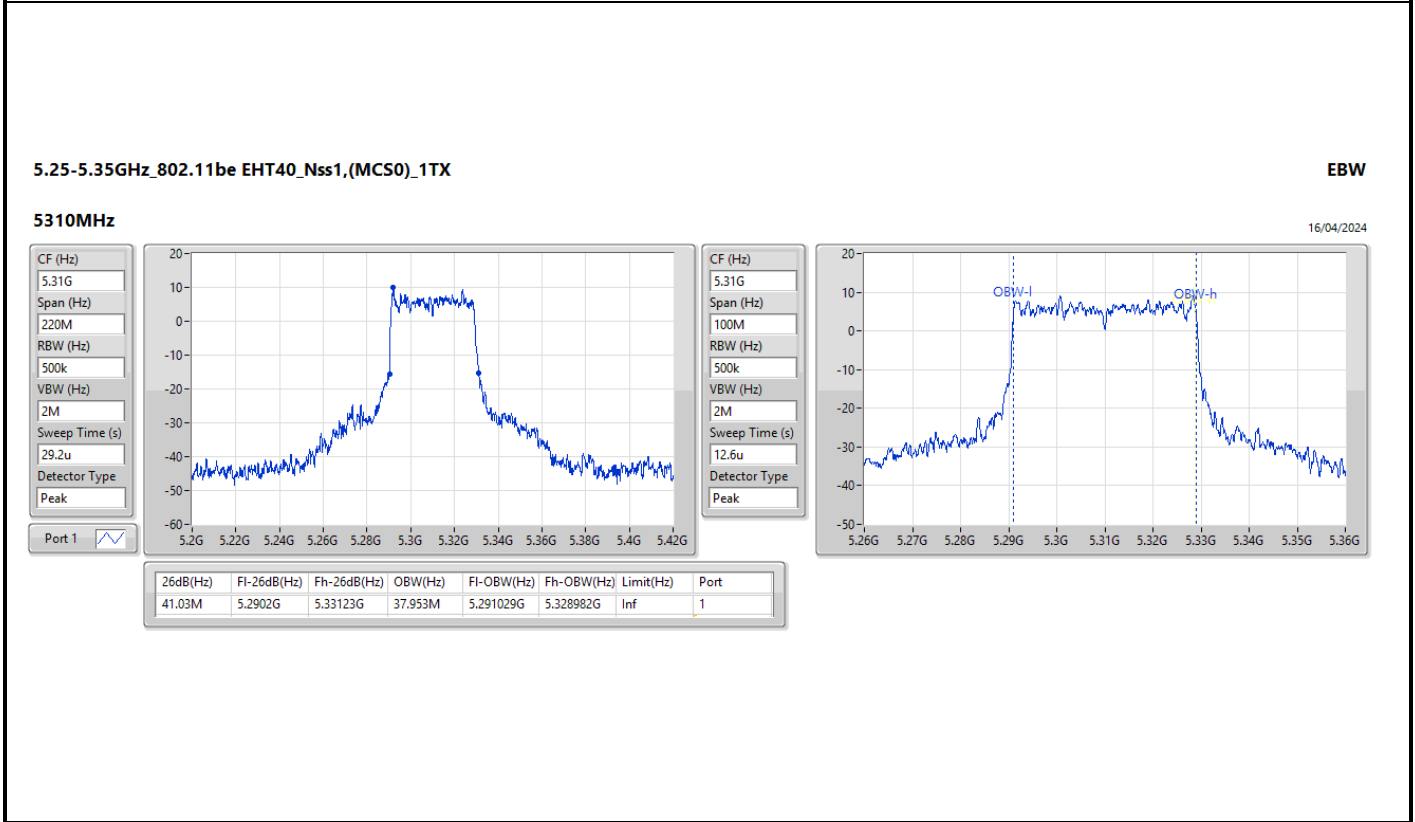
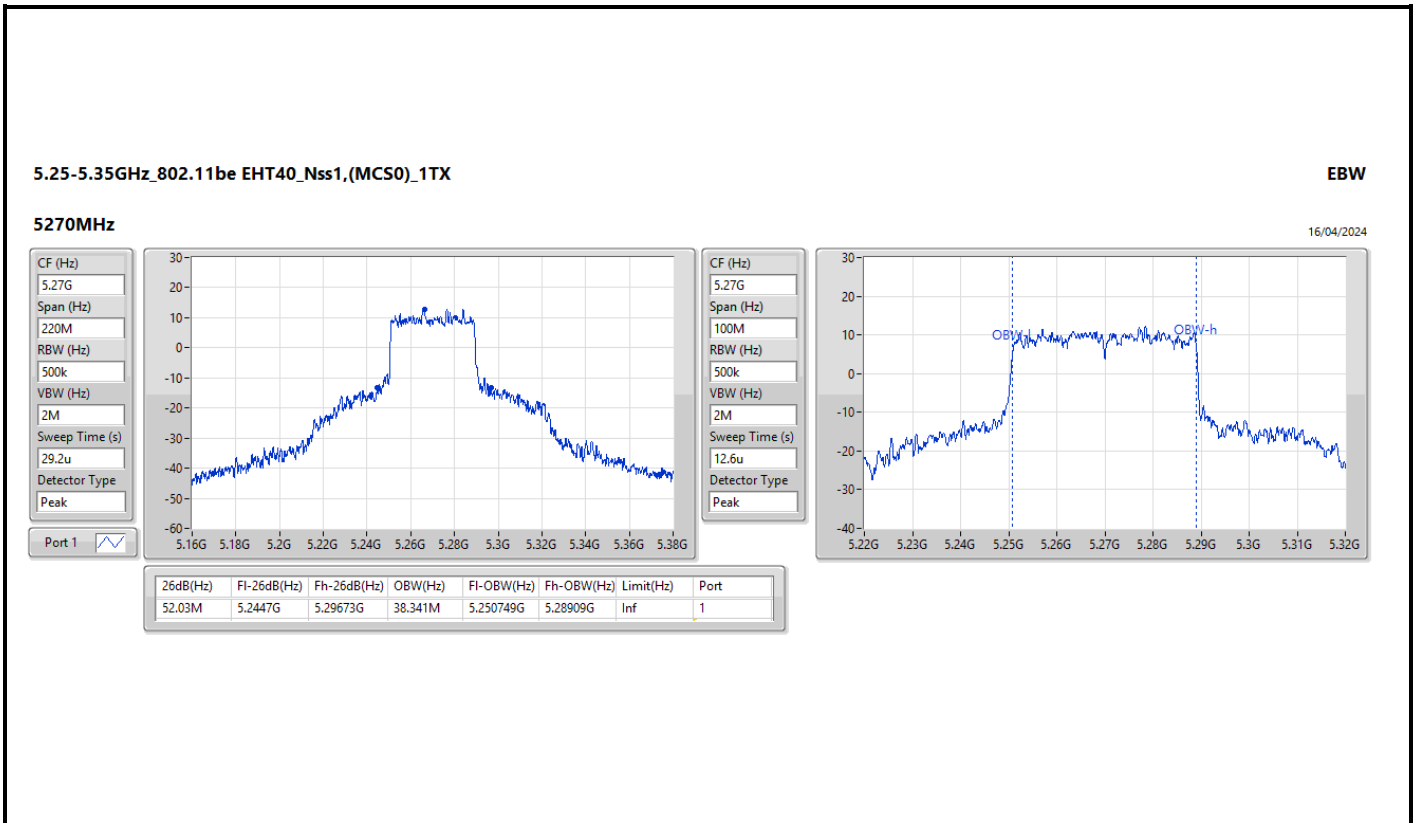
5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

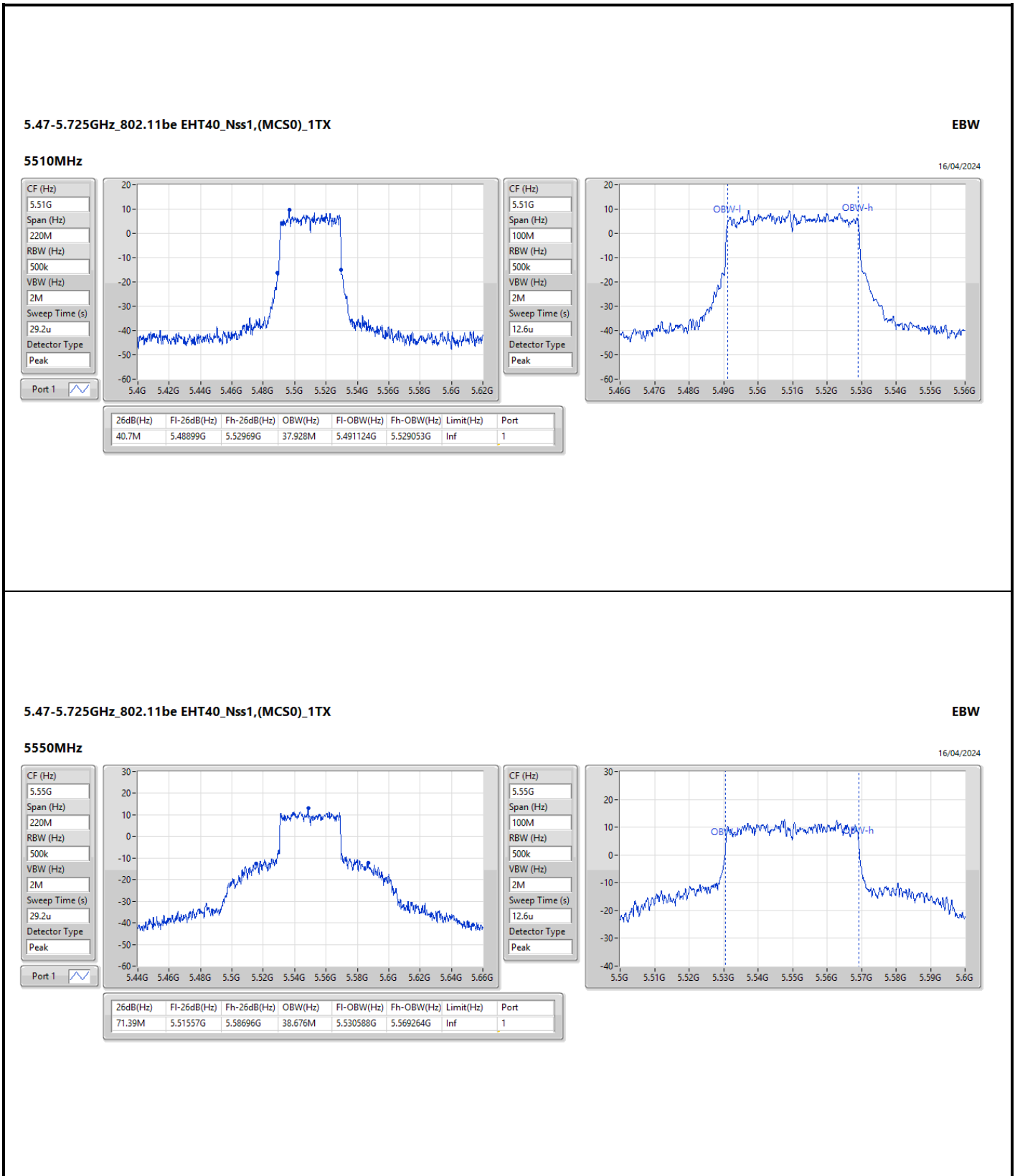
EBW

5230MHz

16/04/2024





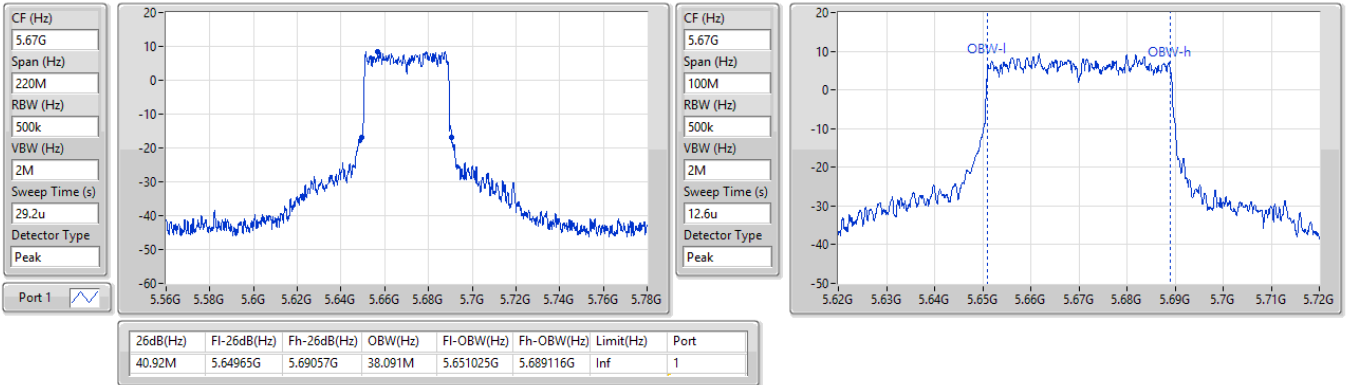


5.47-5.725GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

EBW

5670MHz

16/04/2024

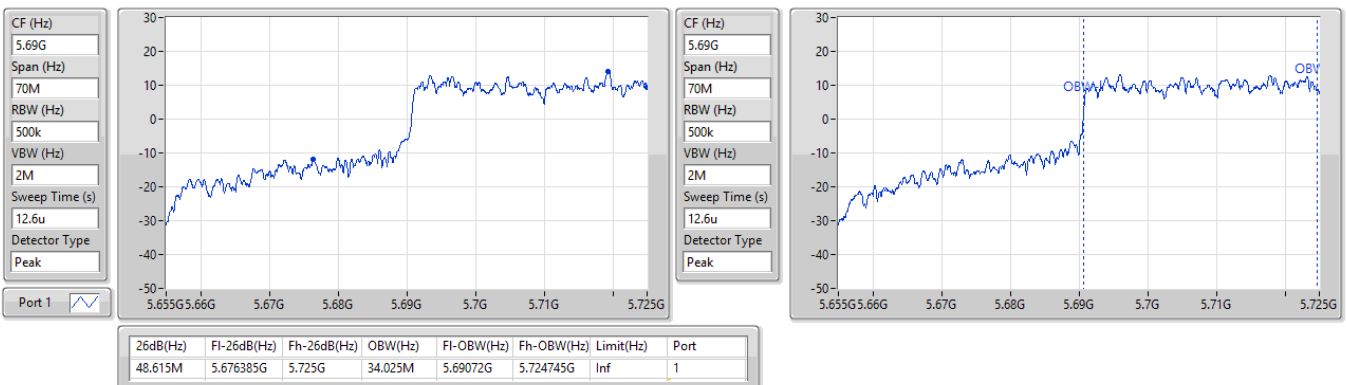


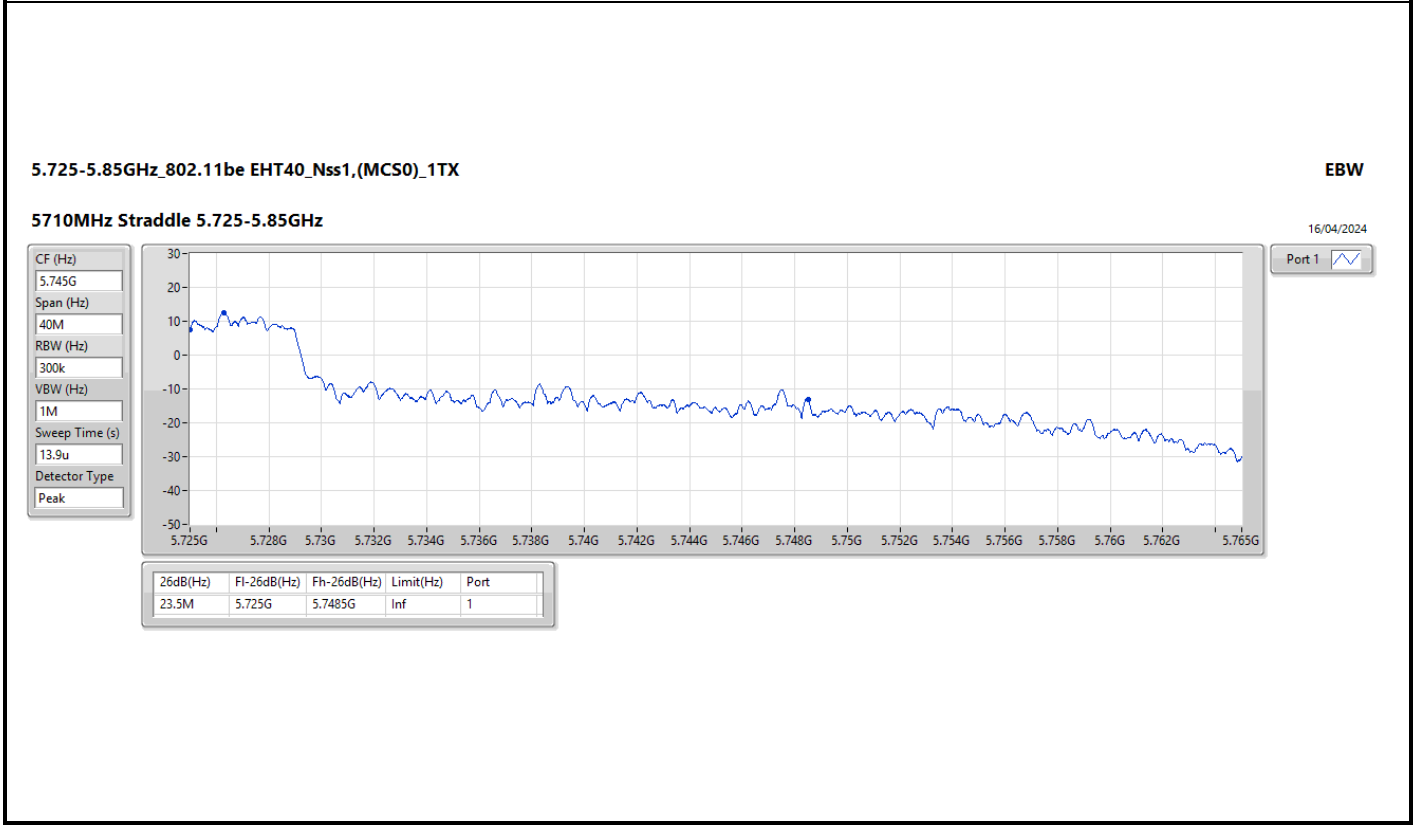
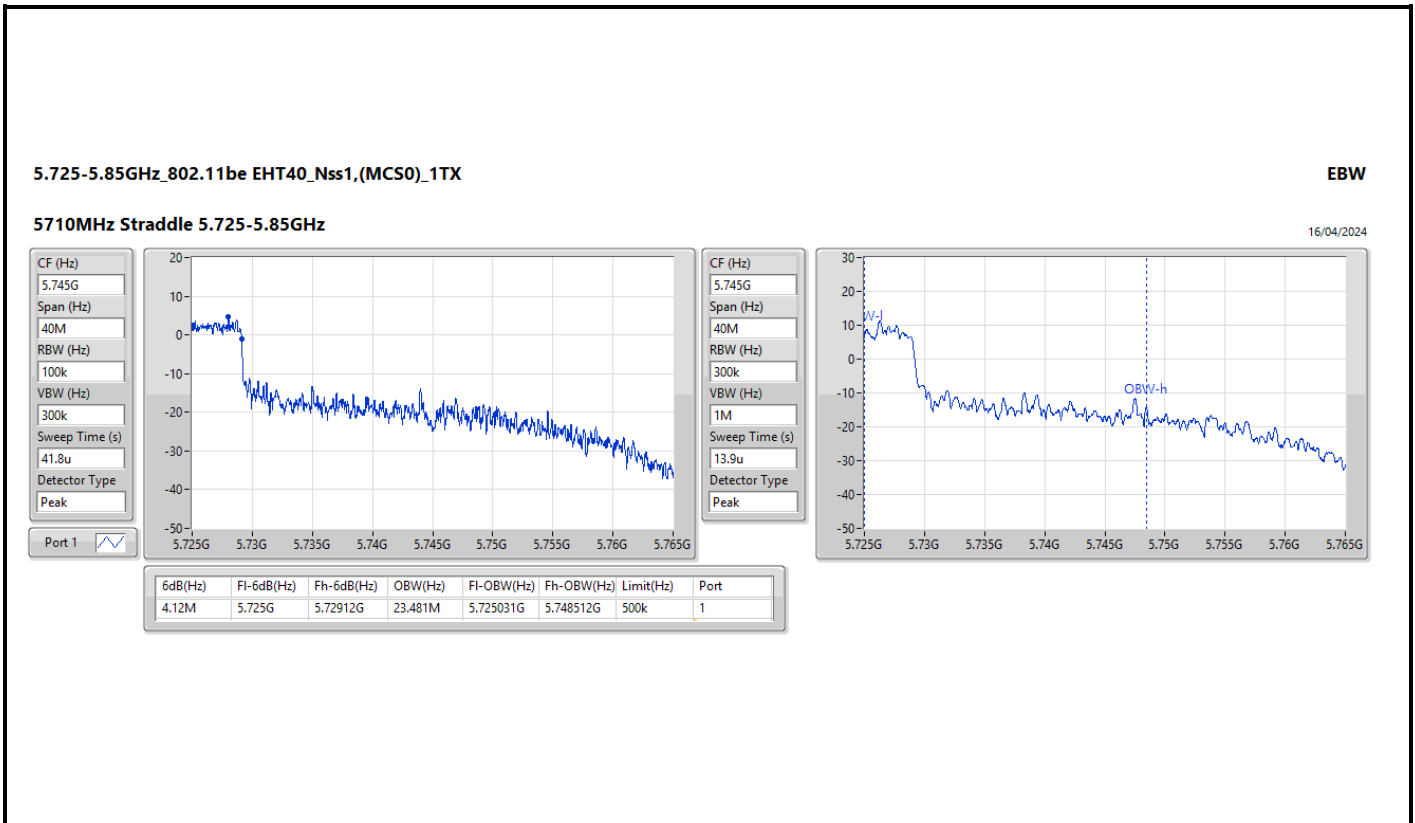
5.47-5.725GHz\_802.11be EHT40\_Nss1,(MCS0)\_1TX

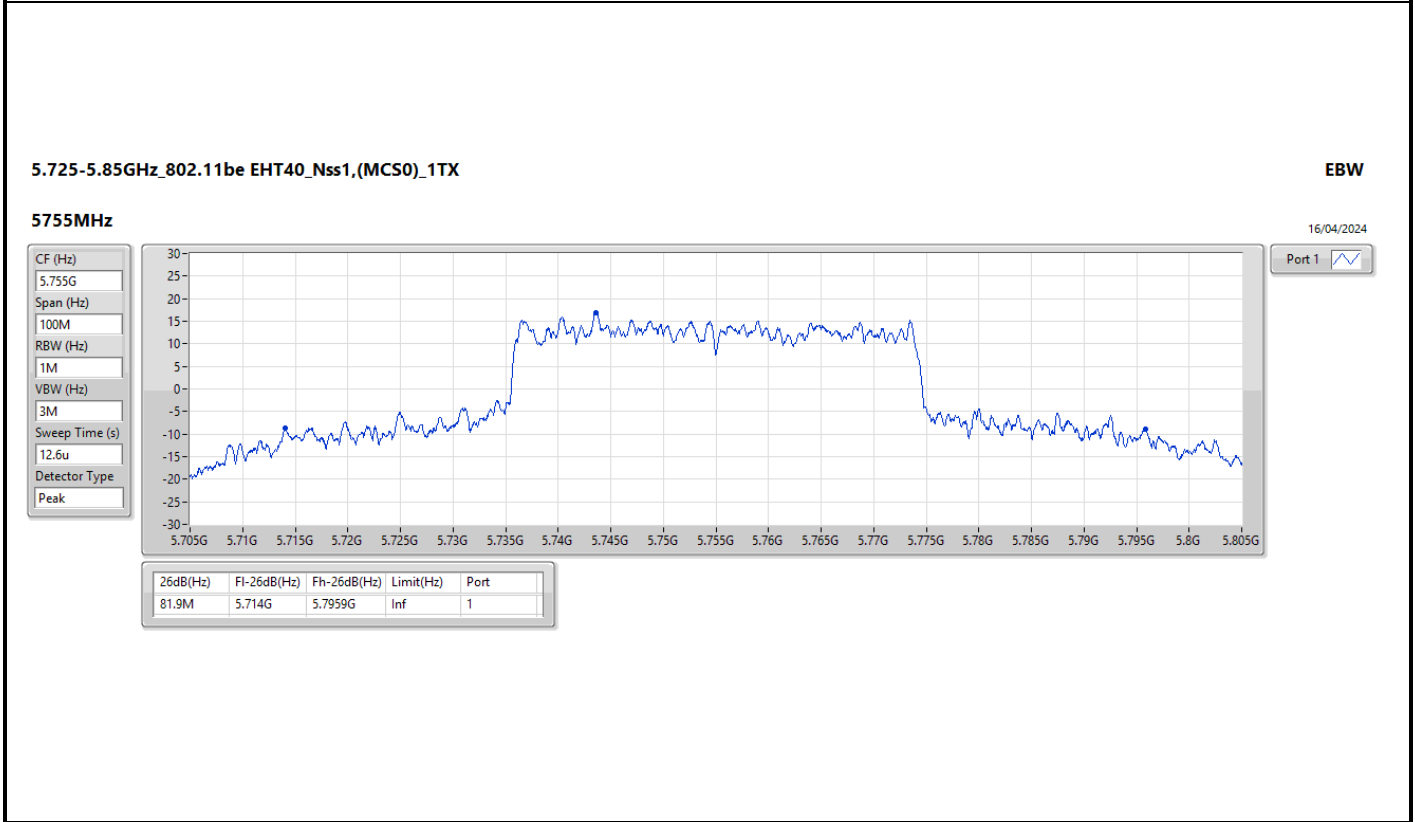
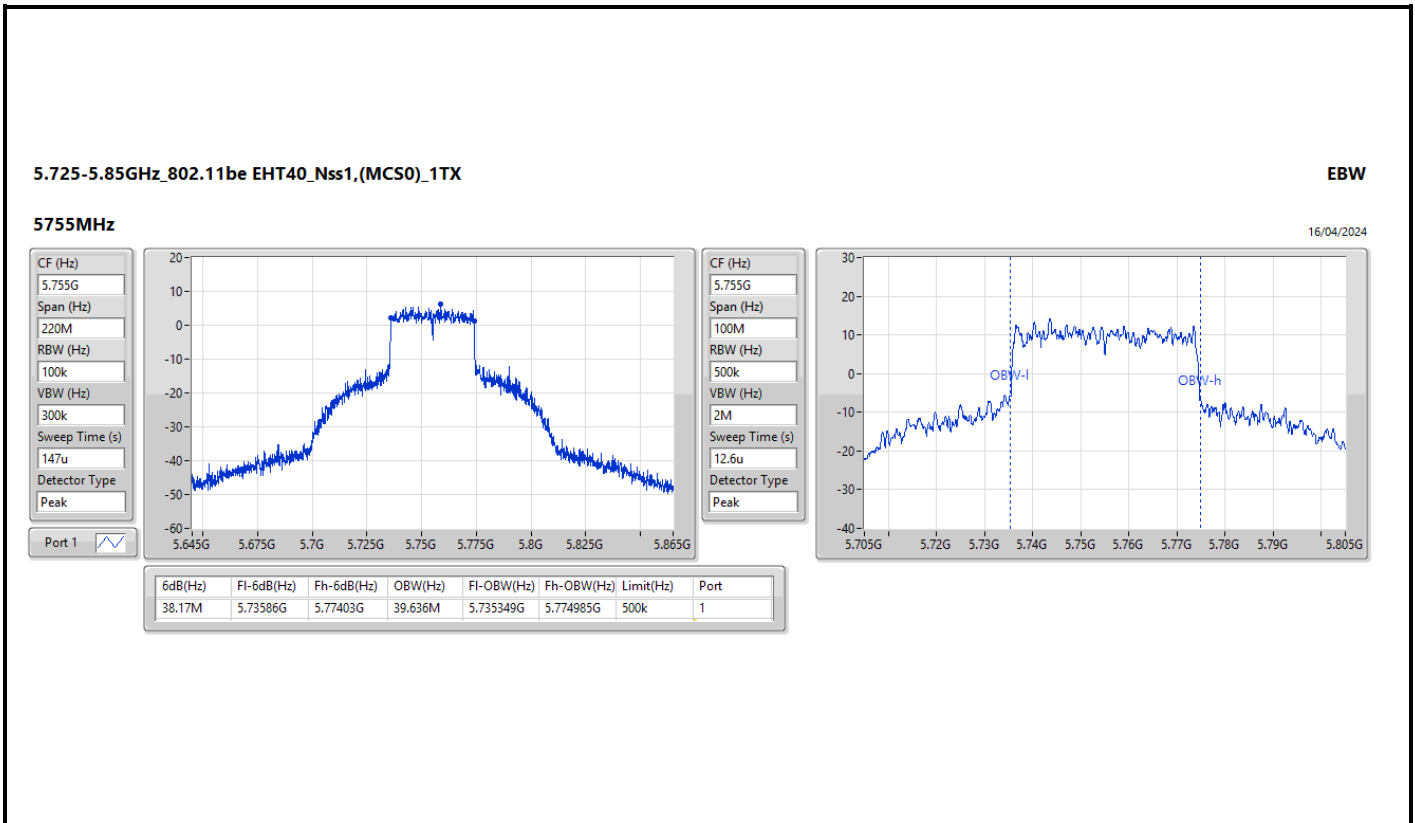
EBW

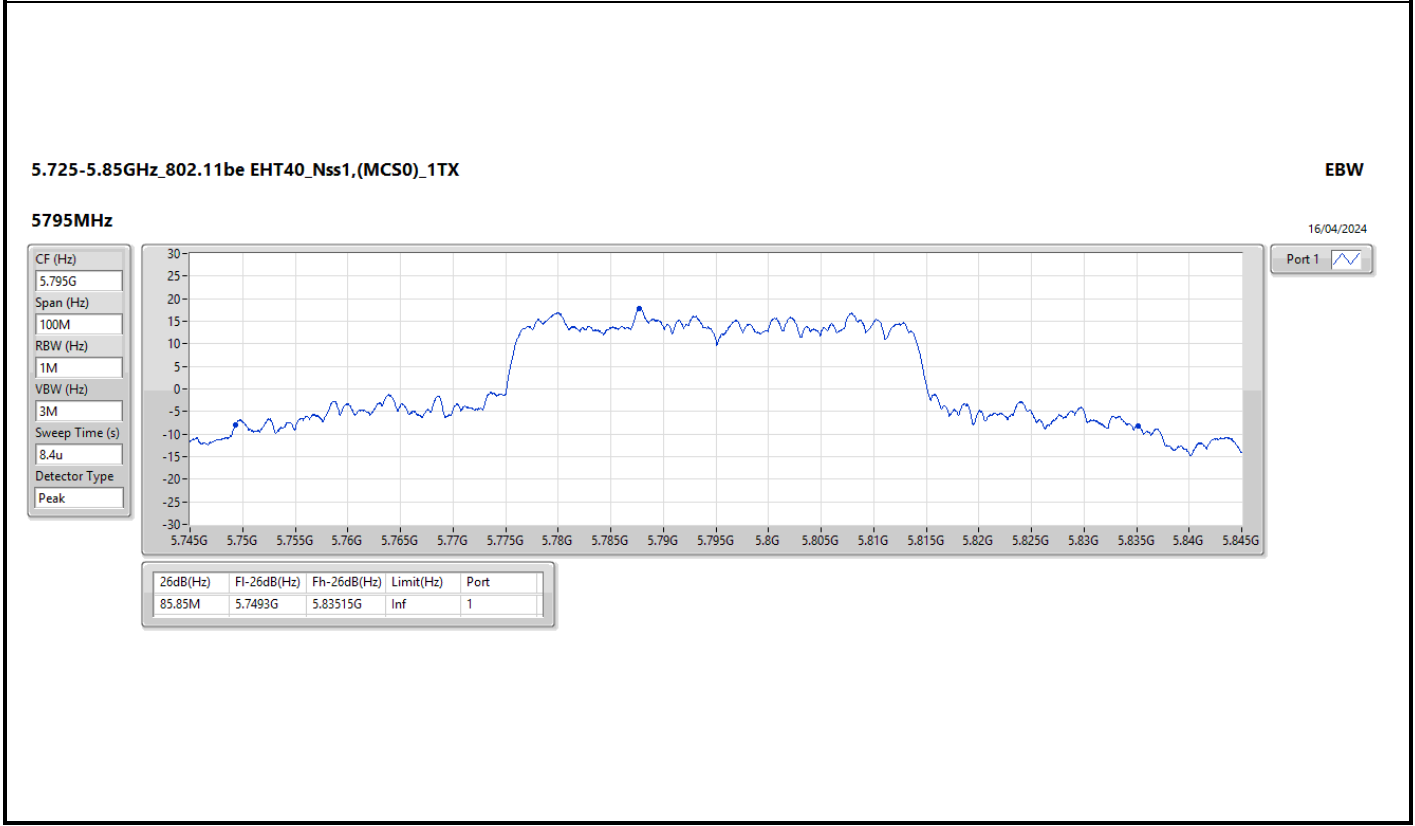
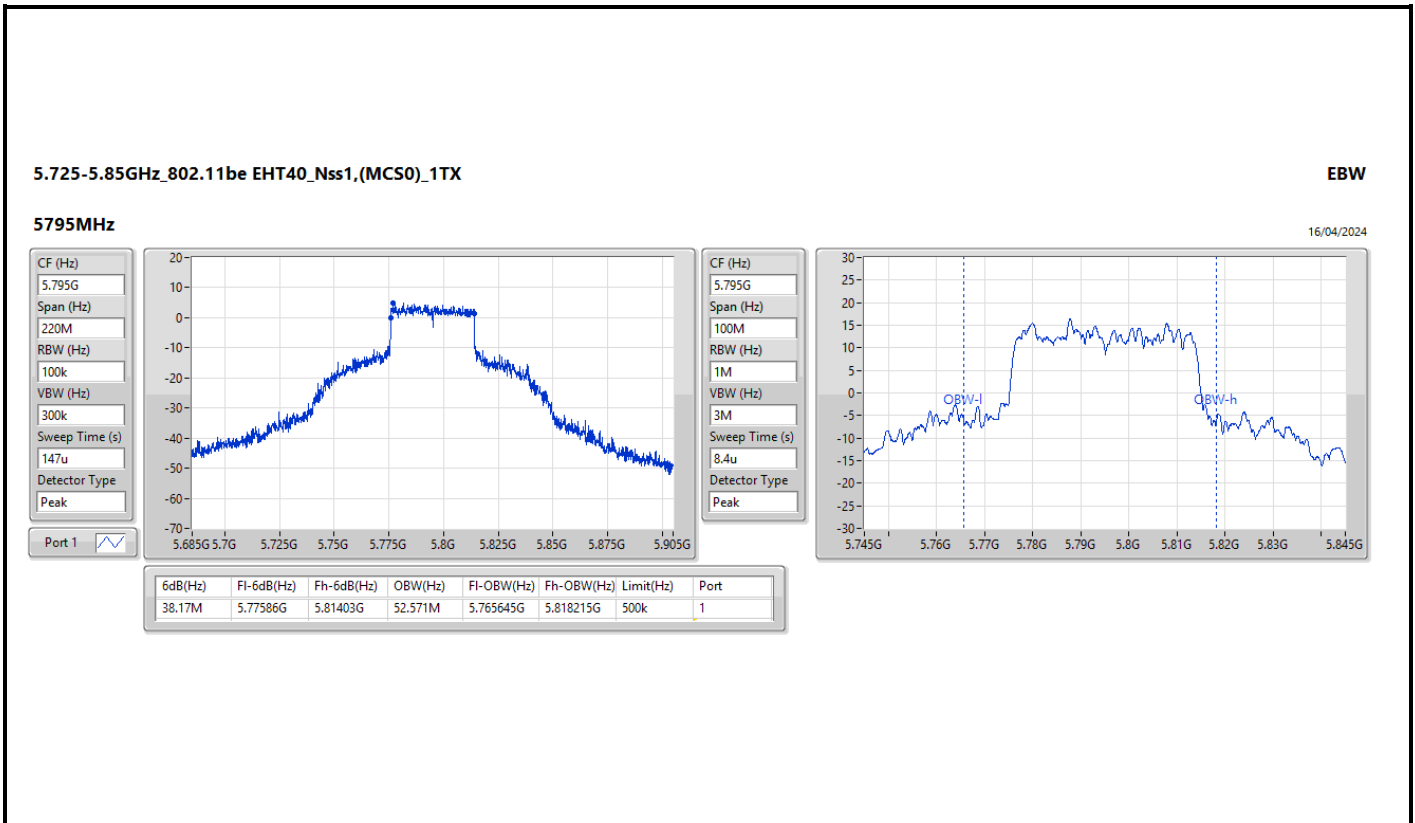
5710MHz Straddle 5.47-5.725GHz

16/04/2024









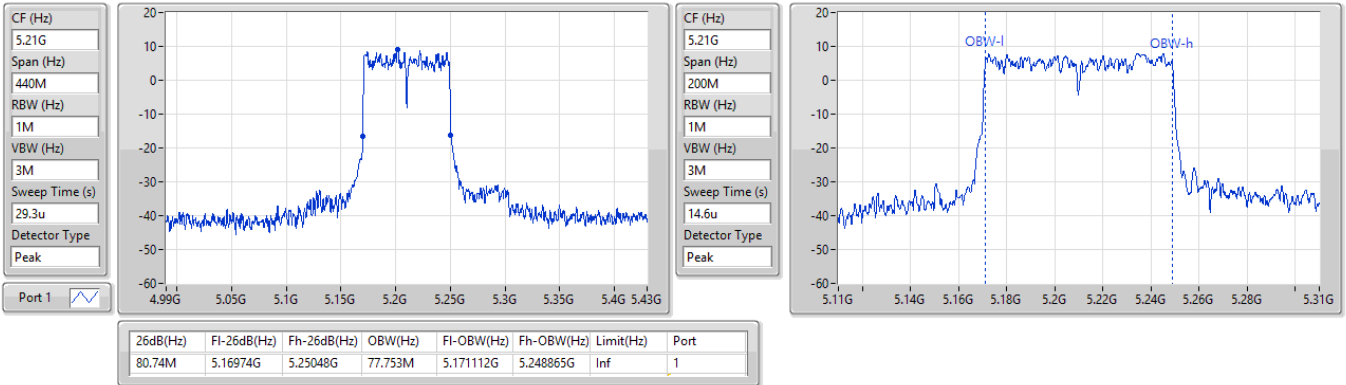


5.15-5.25GHz 802.11be EHT80\_Nss1,(MCS14)\_1TX

EBW

5210MHz

16/04/2024

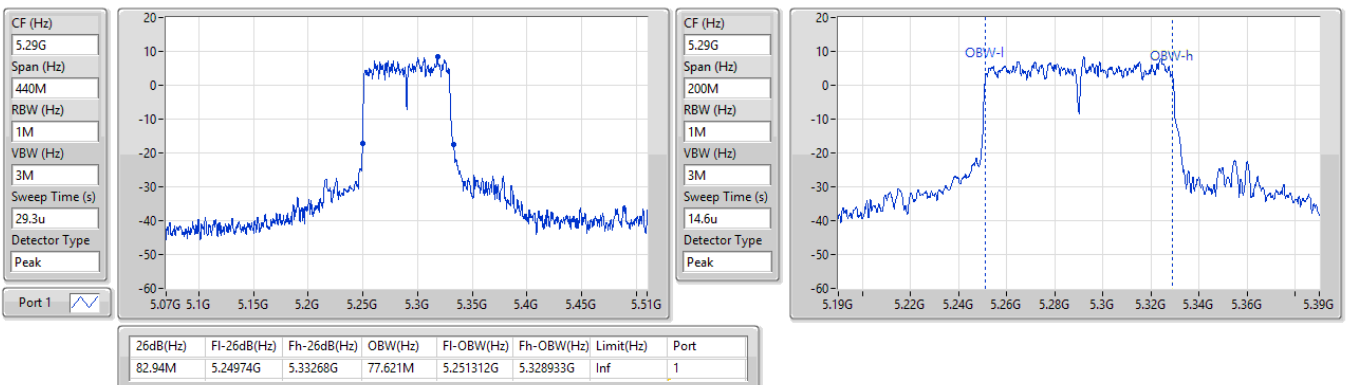


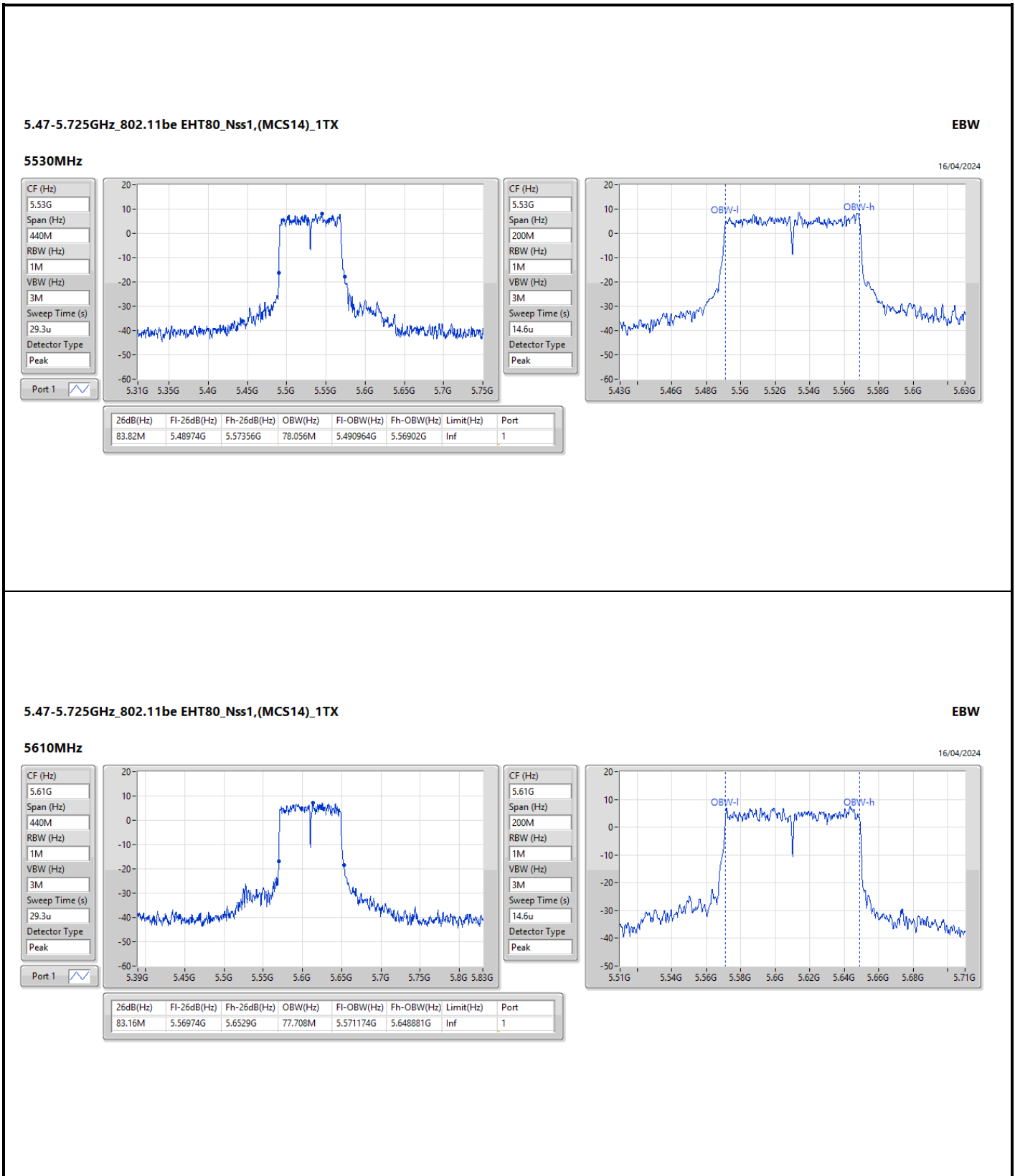
5.25-5.35GHz 802.11be EHT80\_Nss1,(MCS14)\_1TX

EBW

5290MHz

16/04/2024



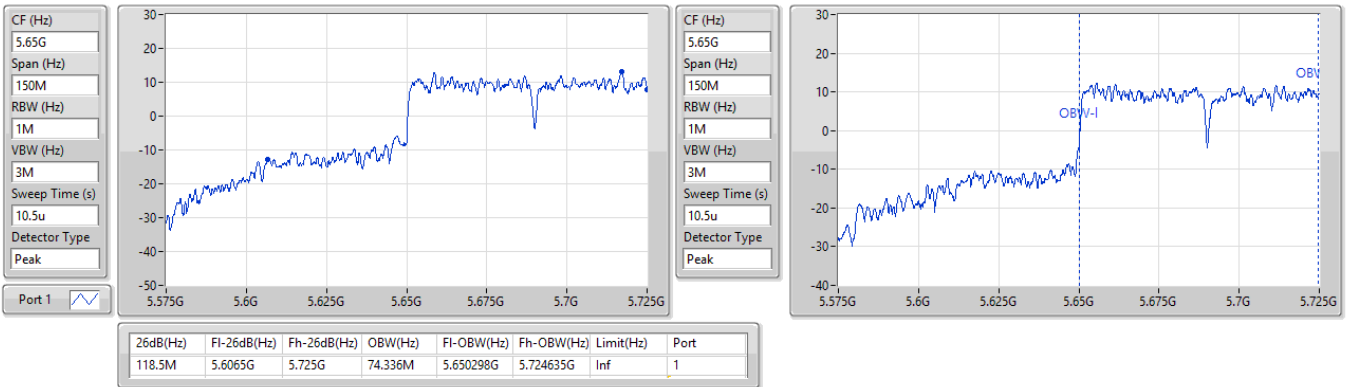


5.47-5.725GHz\_802.11be EHT80\_Nss1,(MCS14)\_1TX

EBW

5690MHz Straddle 5.47-5.725GHz

16/04/2024

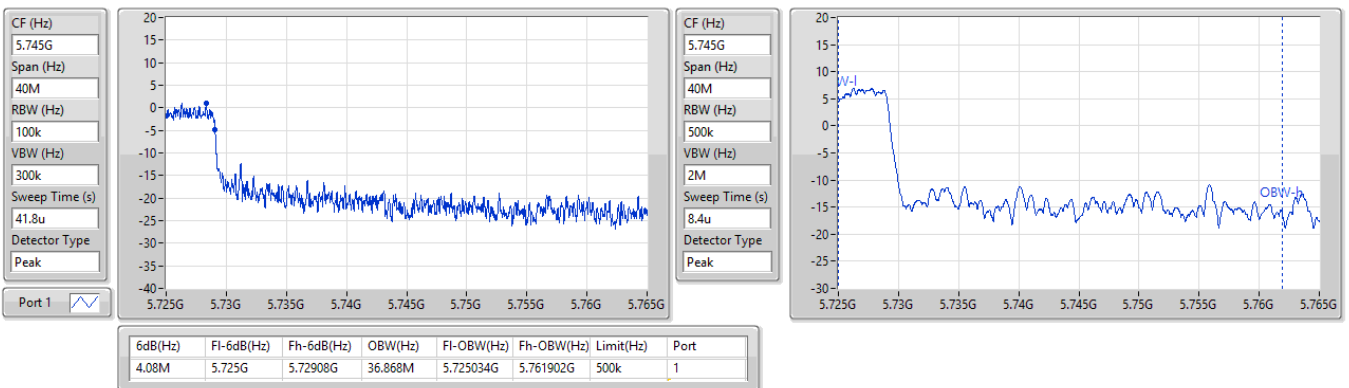


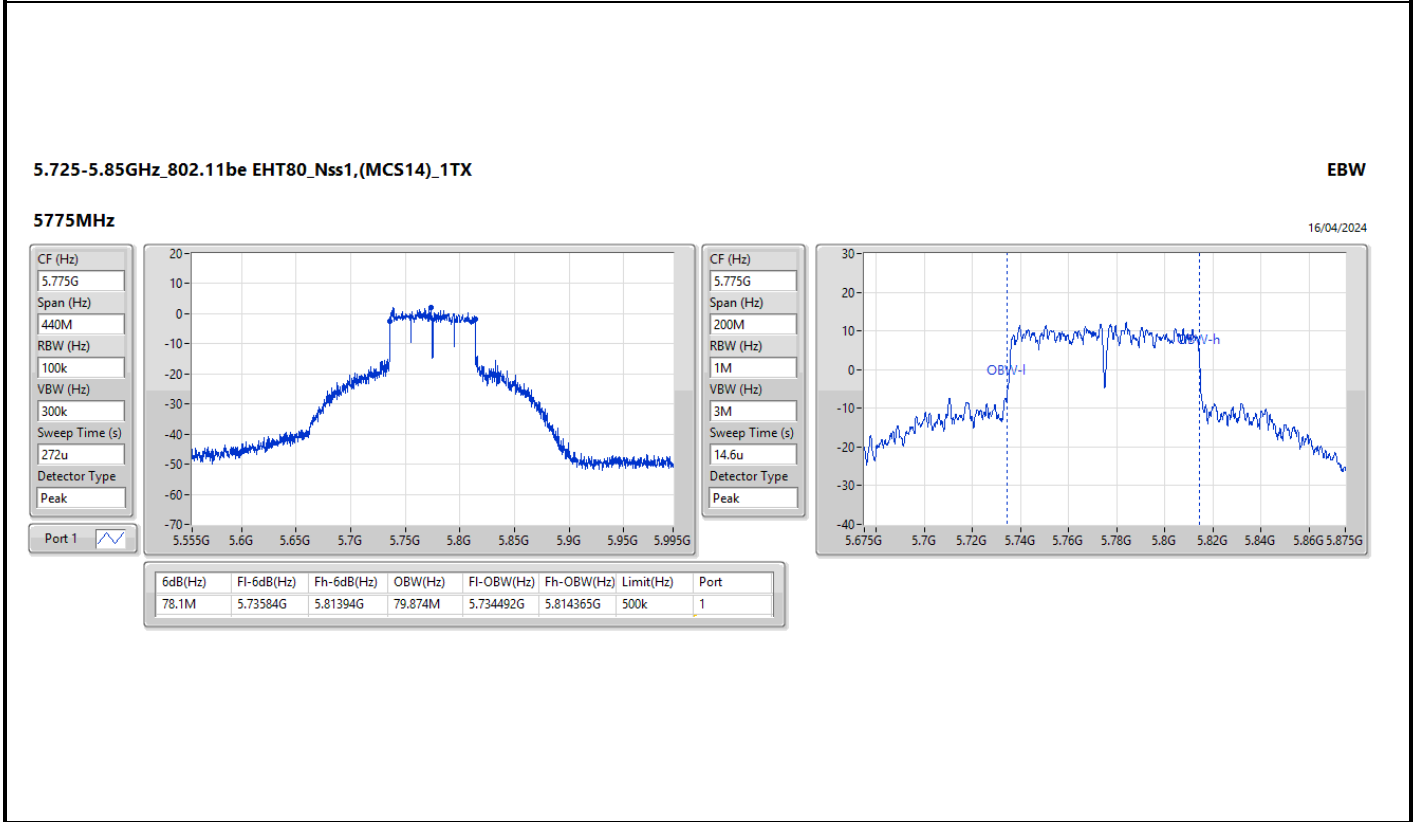
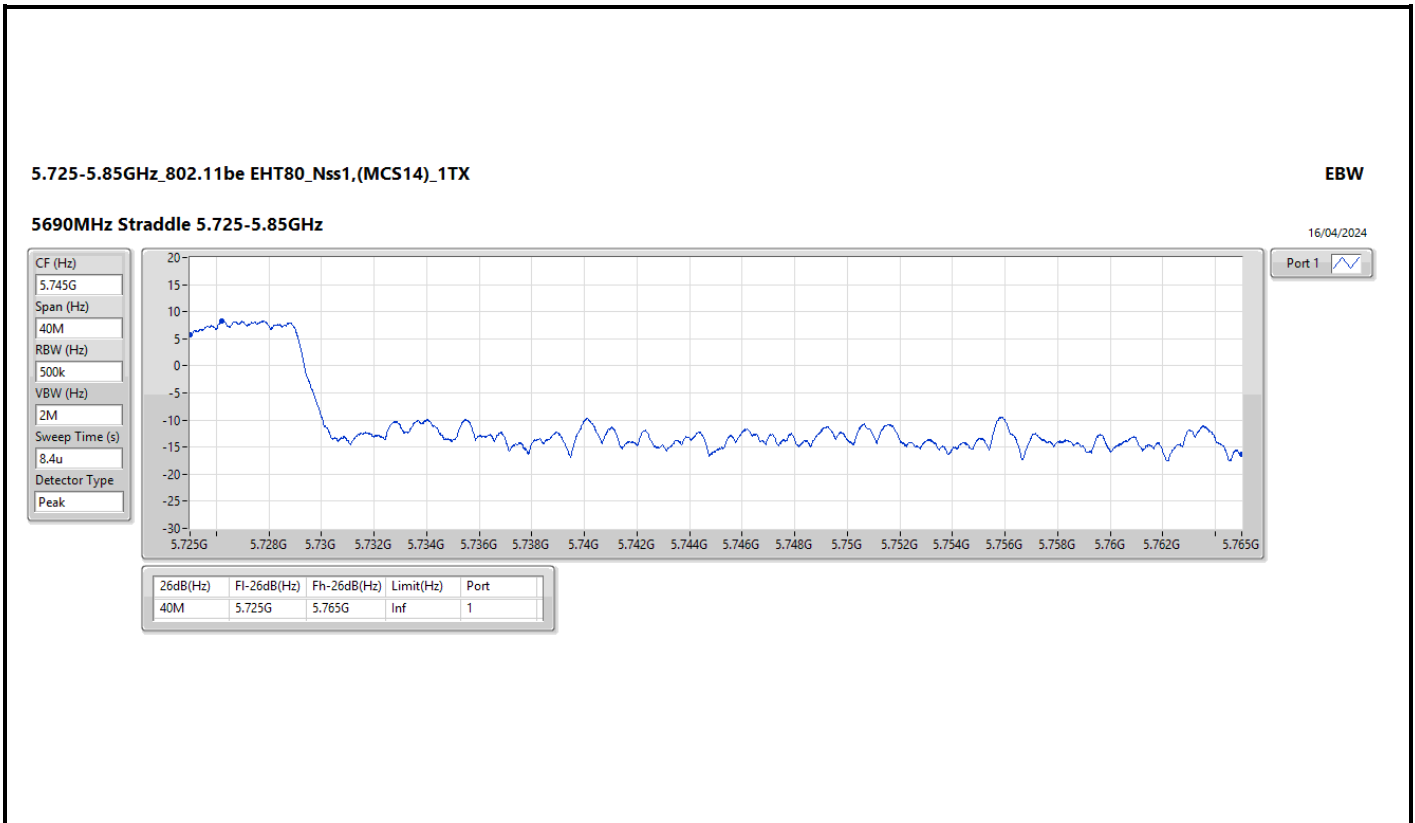
5.725-5.85GHz\_802.11be EHT80\_Nss1,(MCS14)\_1TX

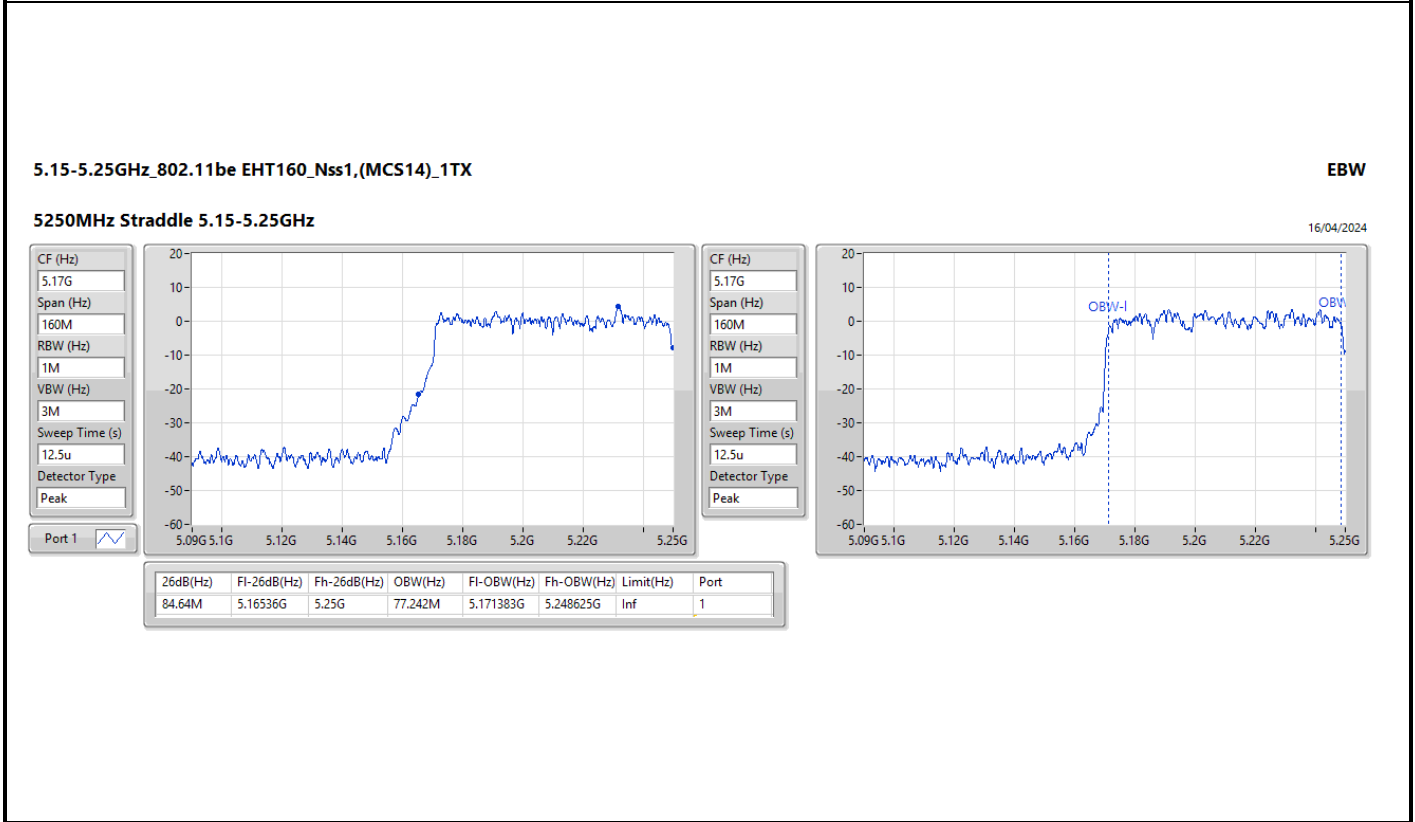
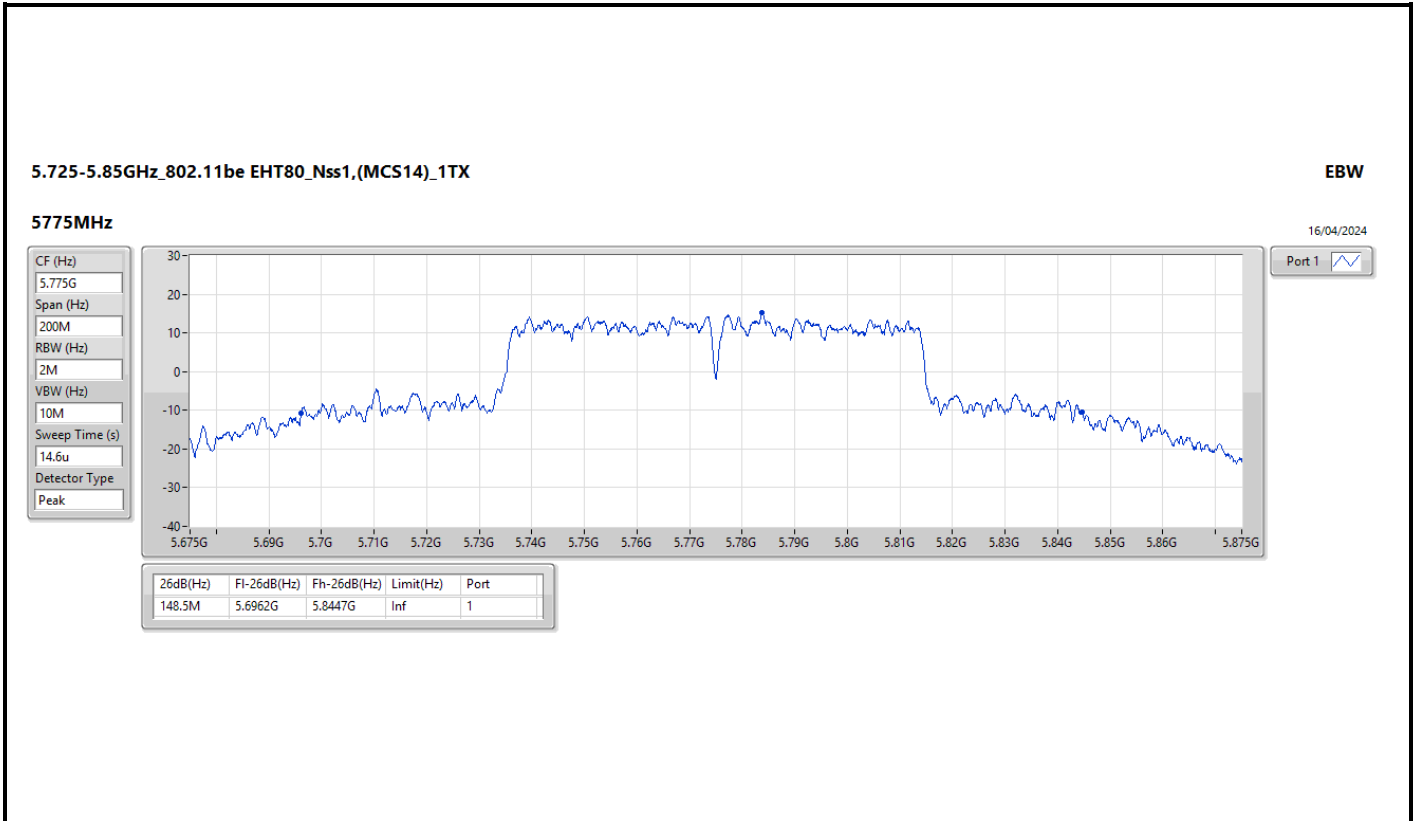
EBW

5690MHz Straddle 5.725-5.85GHz

16/04/2024





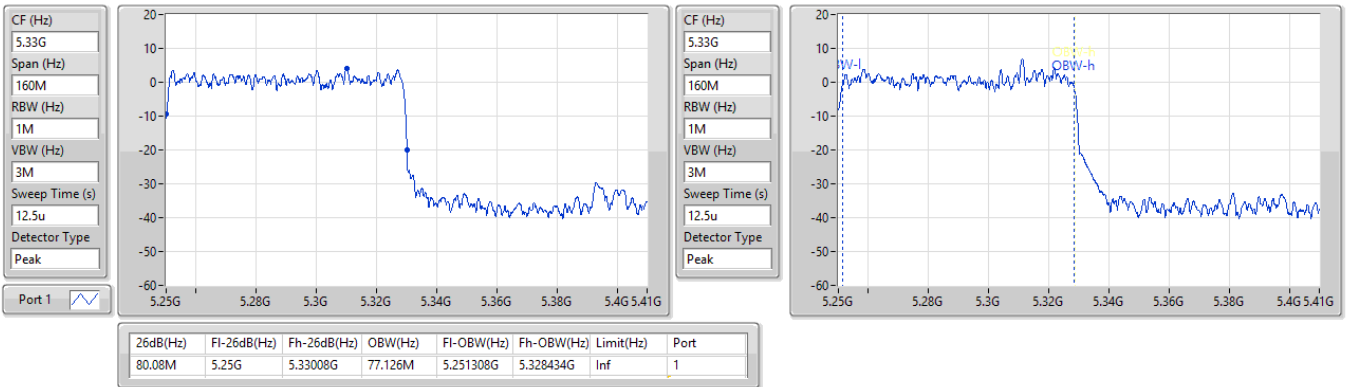


5.25-5.35GHz\_802.11be EHT160\_Nss1,(MCS14)\_1TX

EBW

5250MHz Straddle 5.25-5.35GHz

16/04/2024

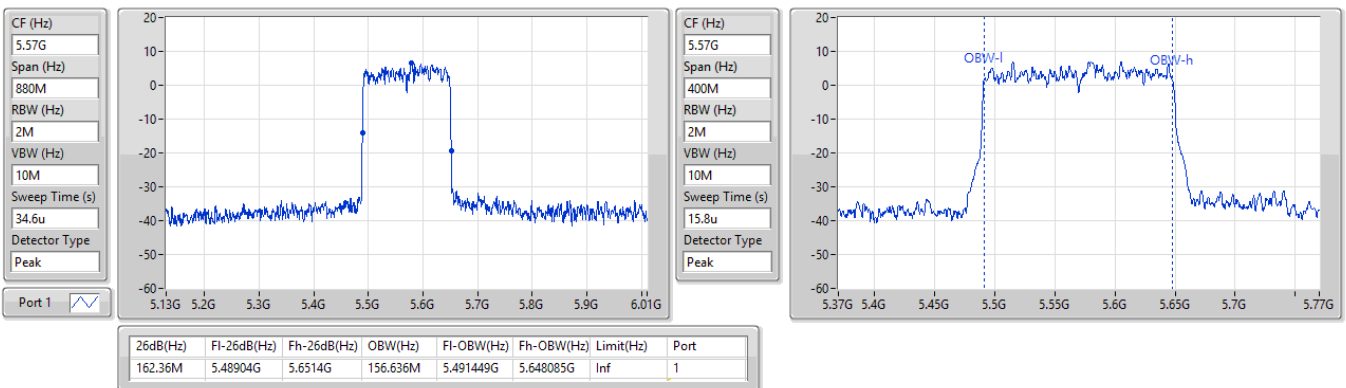


5.47-5.725GHz\_802.11be EHT160\_Nss1,(MCS14)\_1TX

EBW

5570MHz

16/04/2024

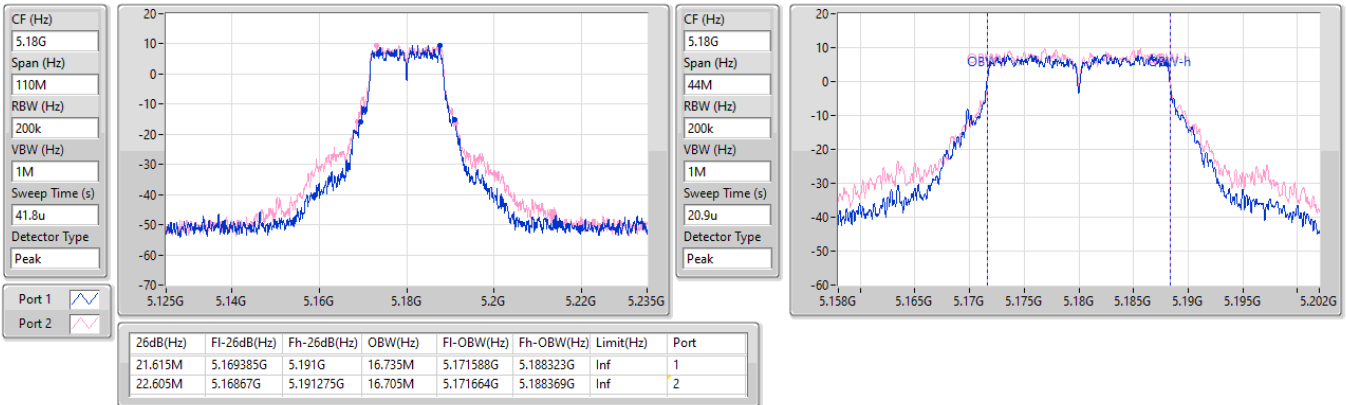


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5180MHz

22/03/2024

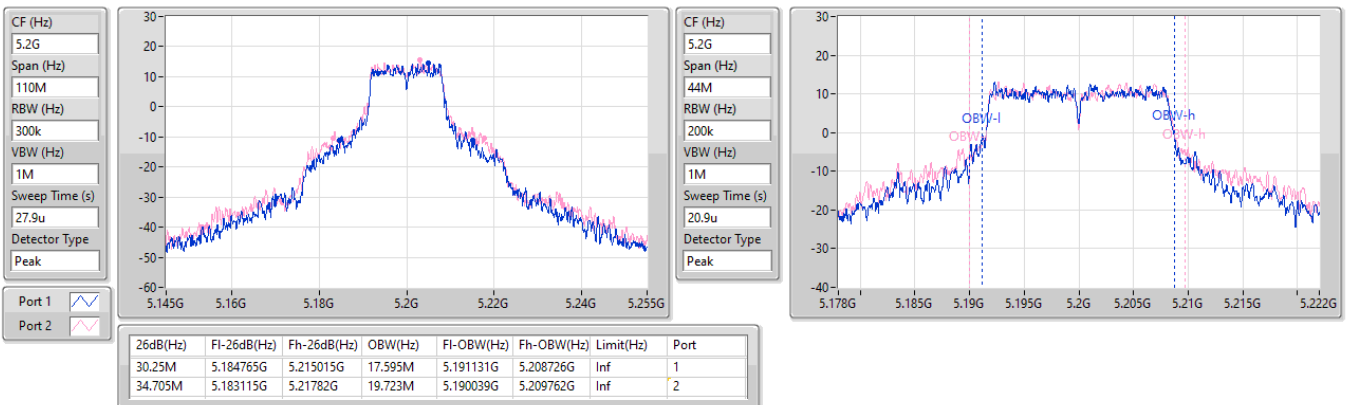


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5200MHz

22/03/2024

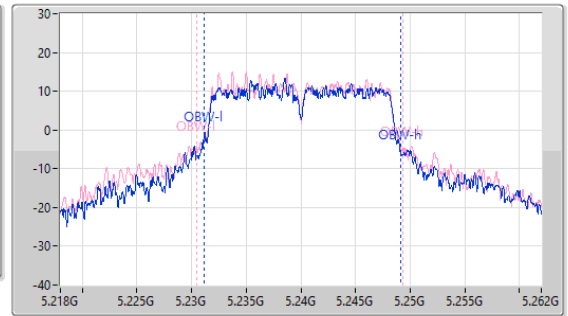
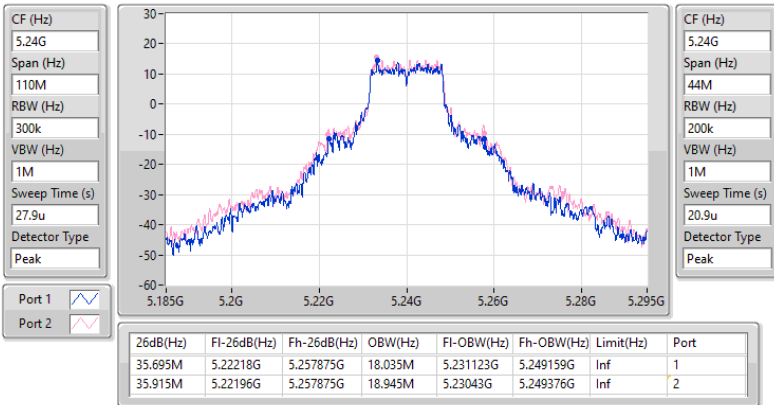


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5240MHz

22/03/2024

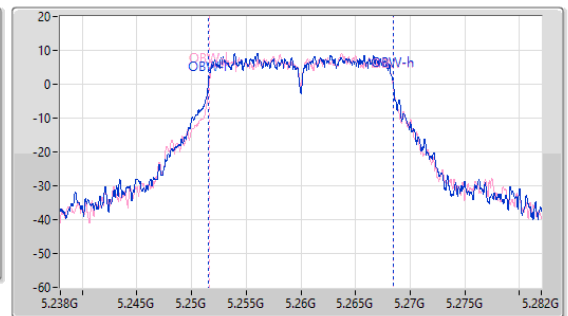
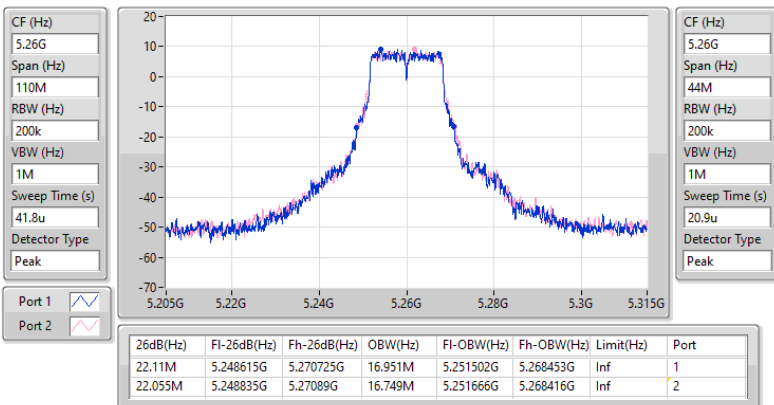


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5260MHz

22/03/2024



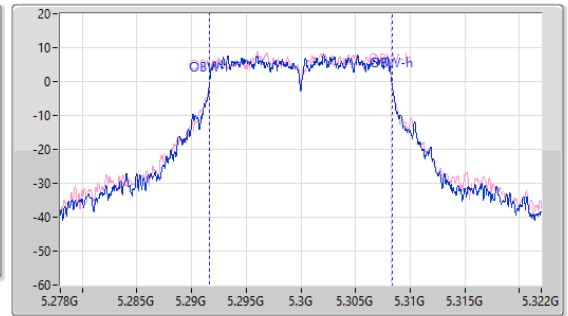
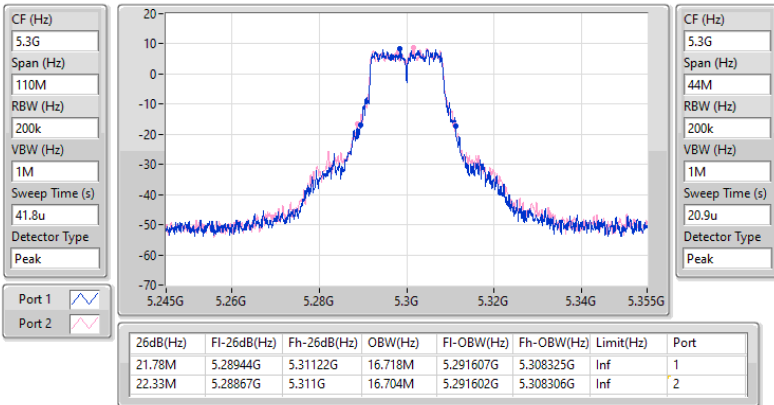


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5300MHz

22/03/2024

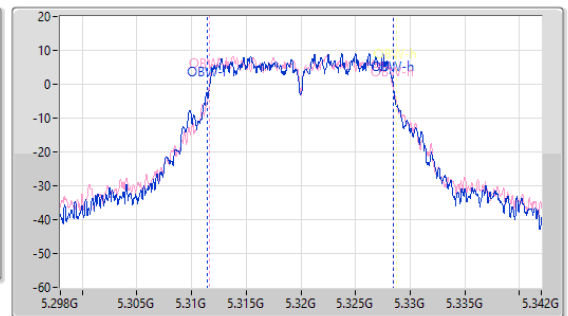
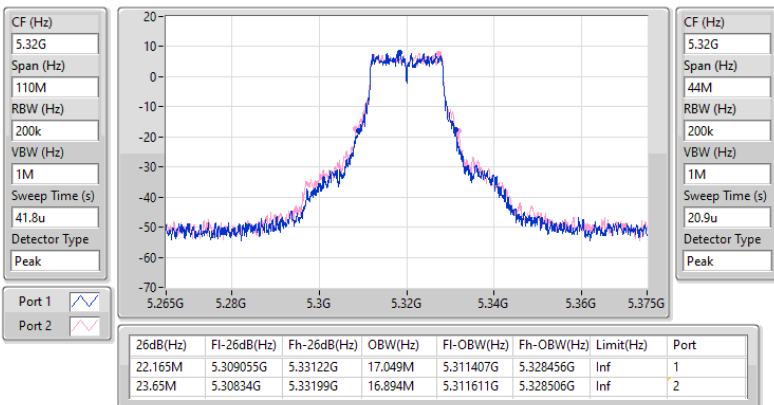


5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5320MHz

22/03/2024

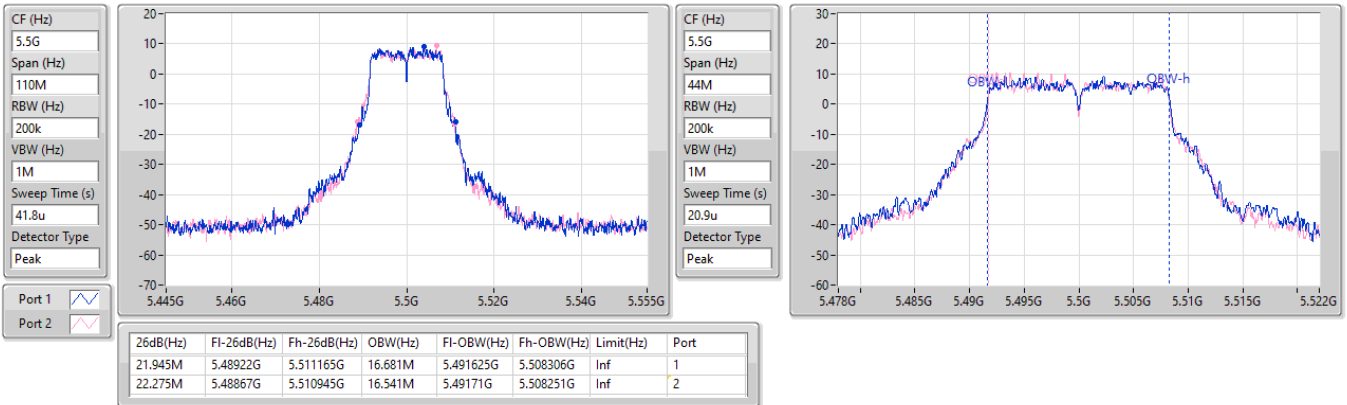


5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5500MHz

22/03/2024

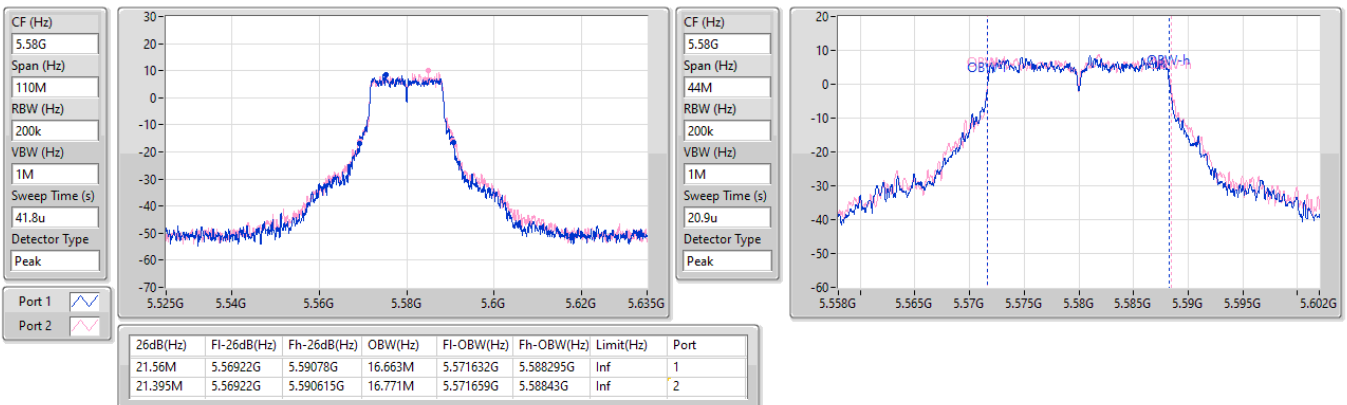


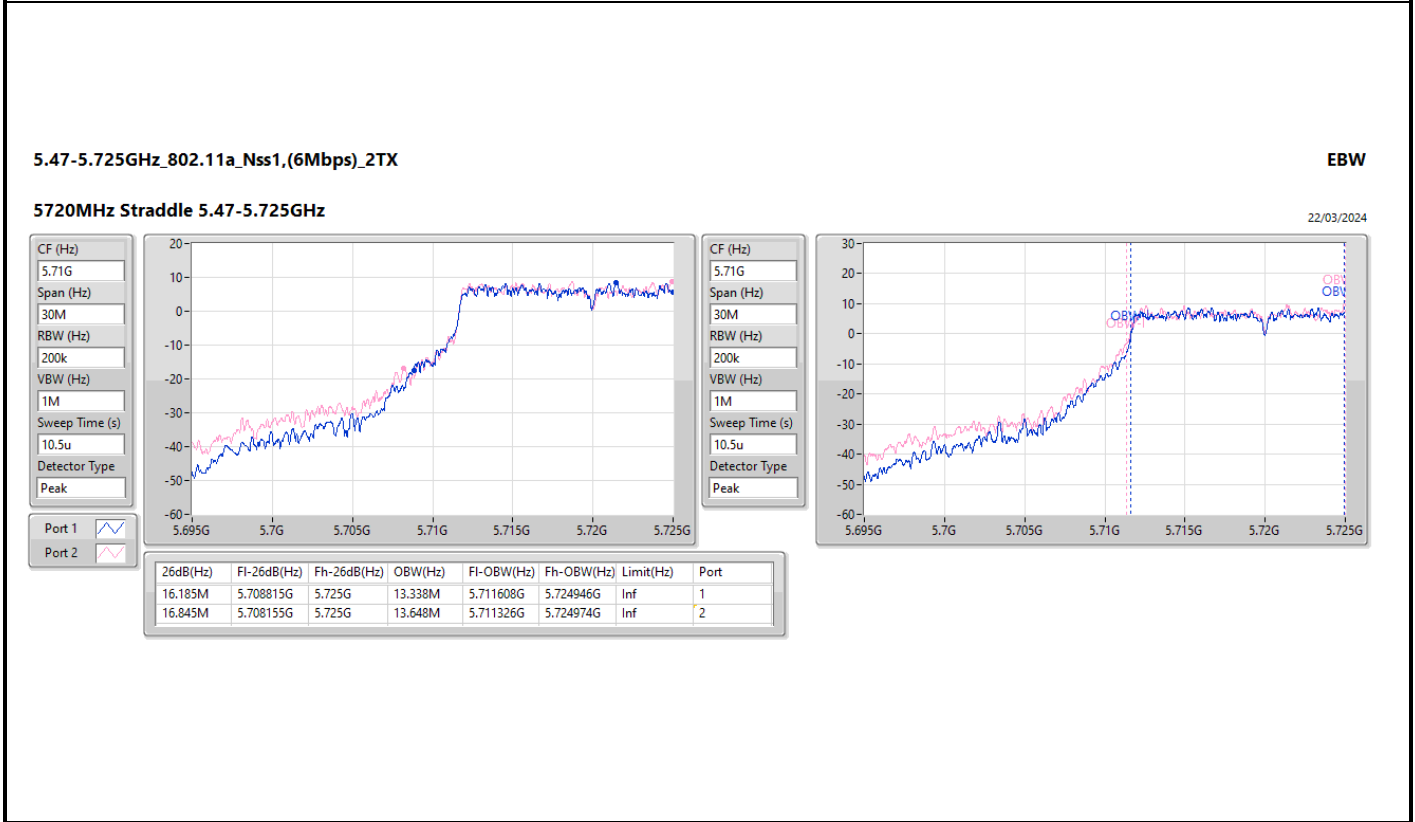
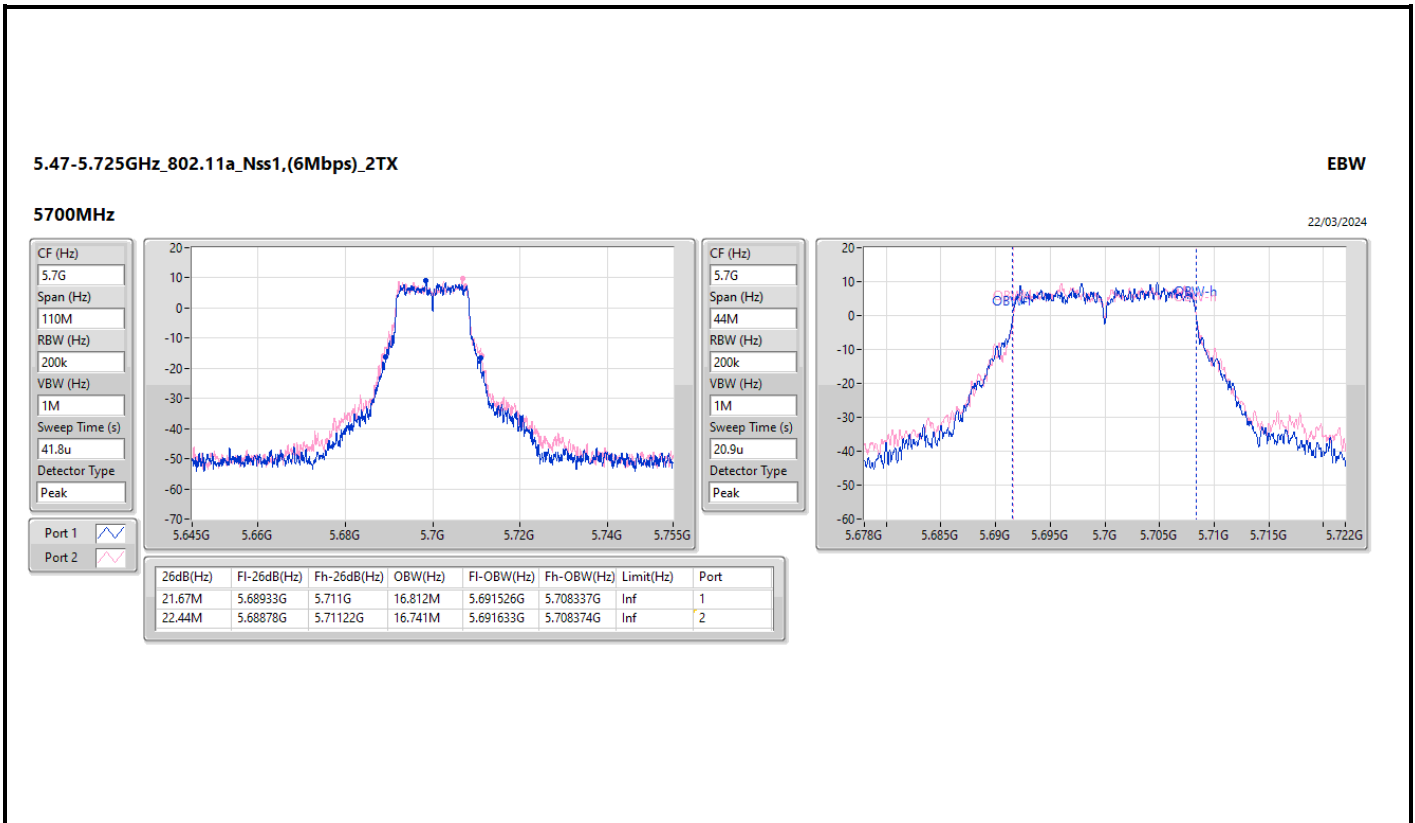
5.47-5.725GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5580MHz

22/03/2024



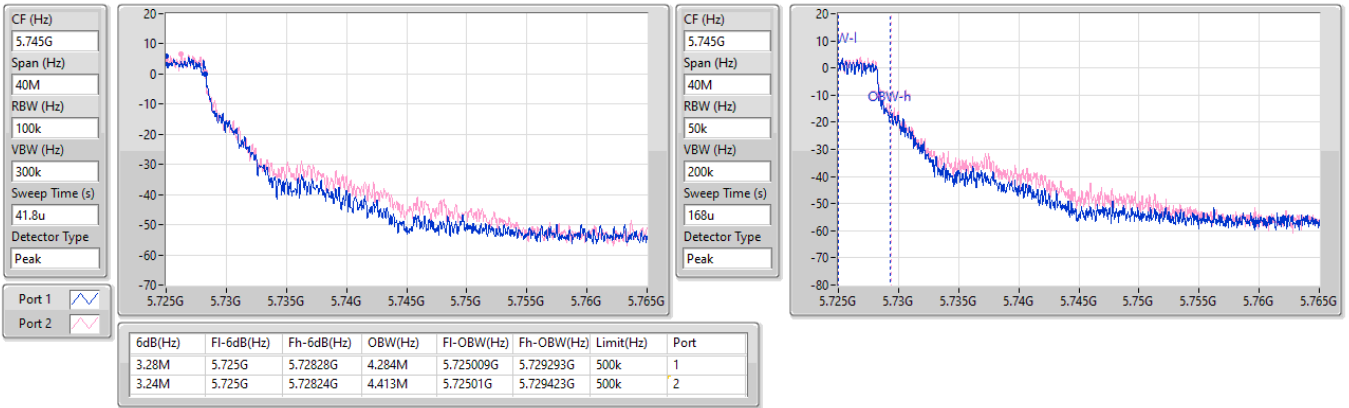


5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_2TX

EBW

5720MHz Straddle 5.725-5.85GHz

22/03/2024

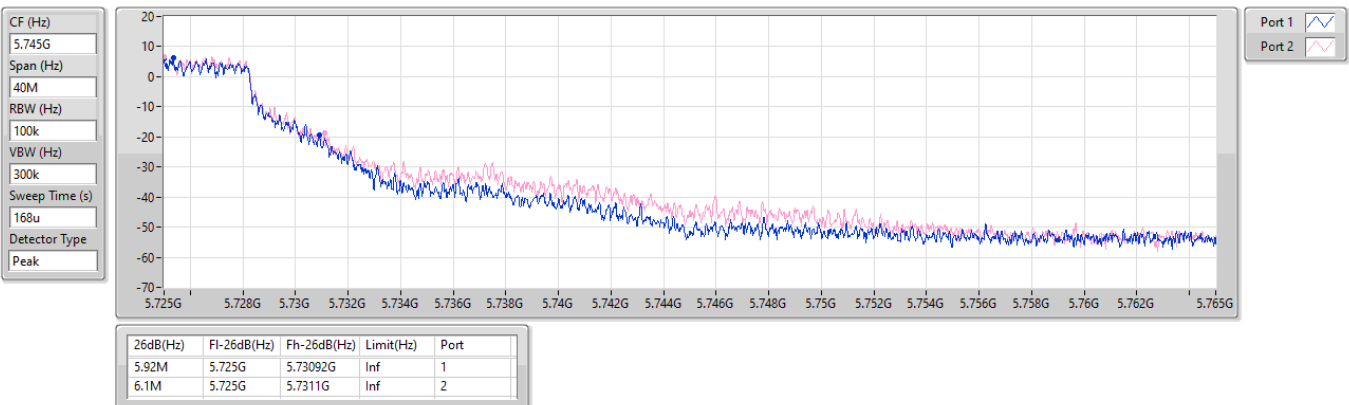


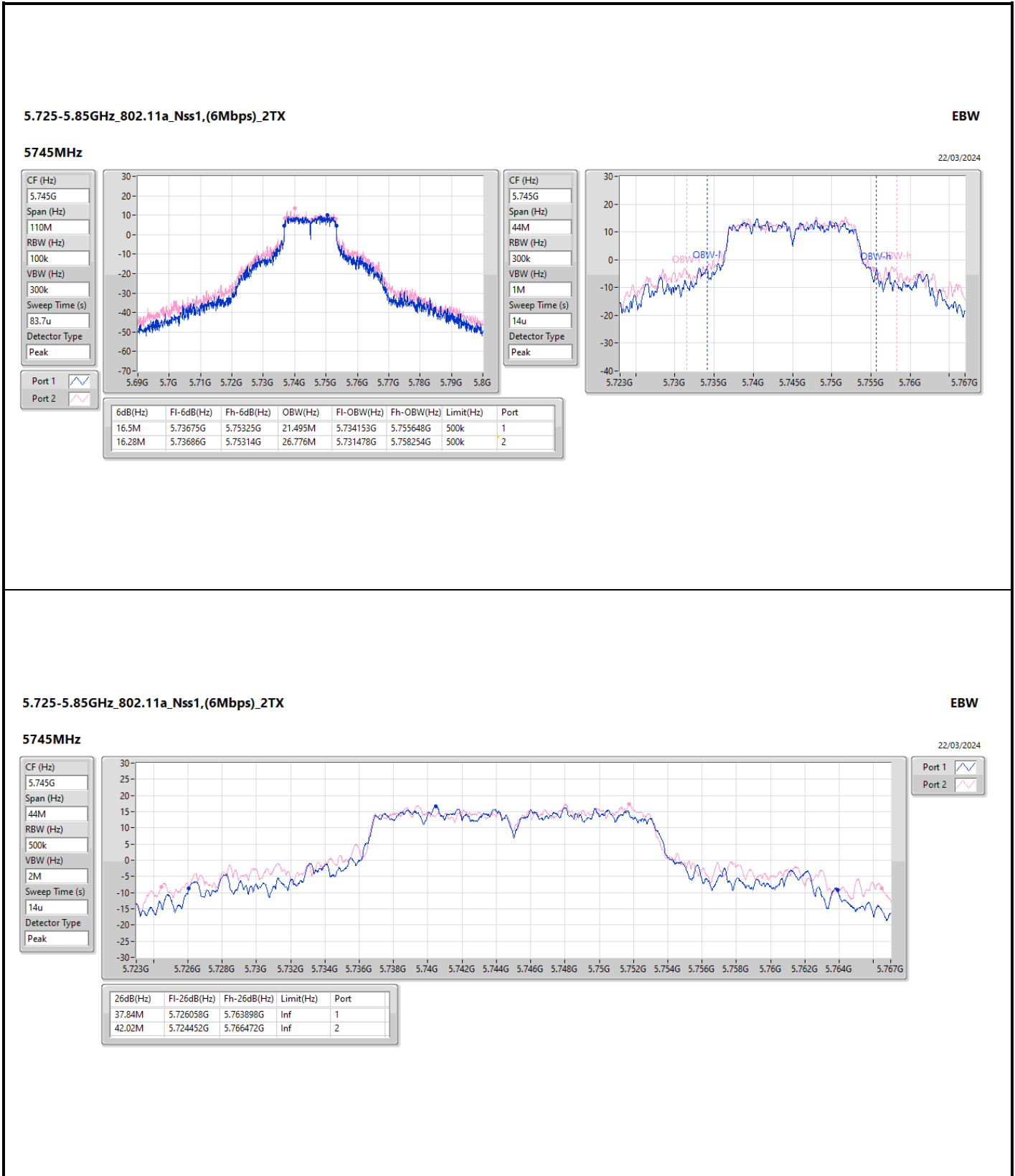
5.725-5.85GHz\_802.11a\_Nss1,(6Mbps)\_2TX

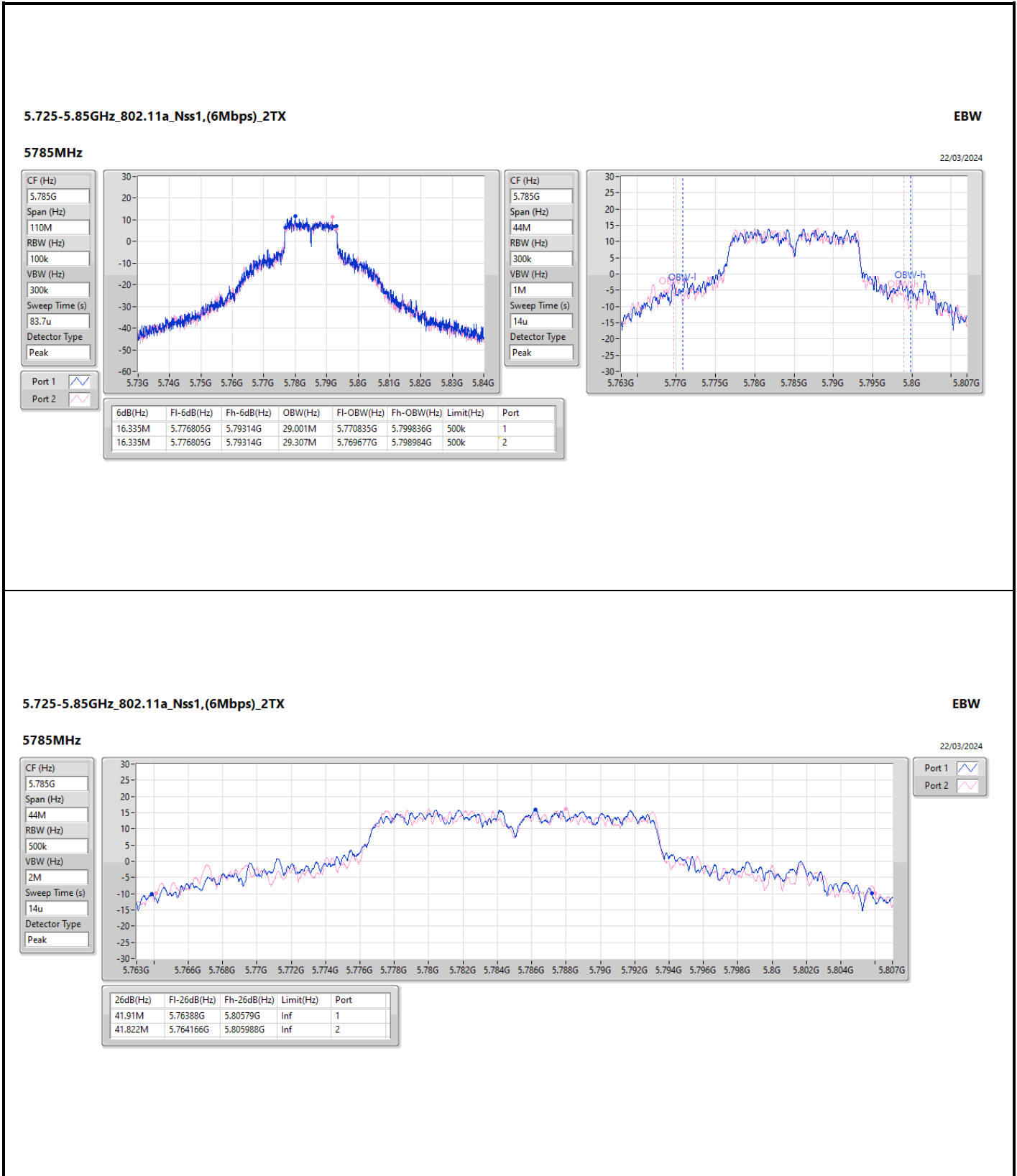
EBW

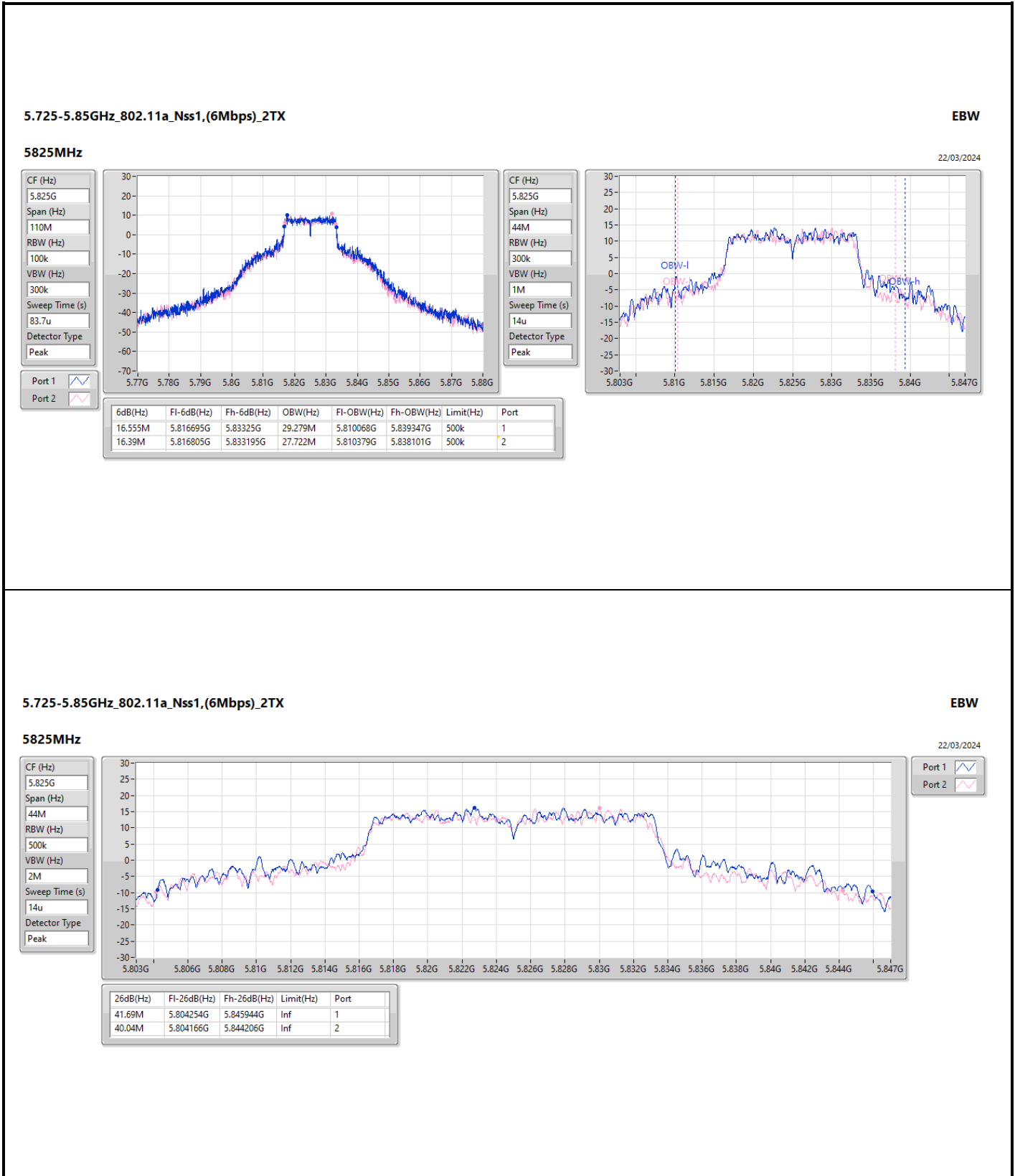
5720MHz Straddle 5.725-5.85GHz

22/03/2024







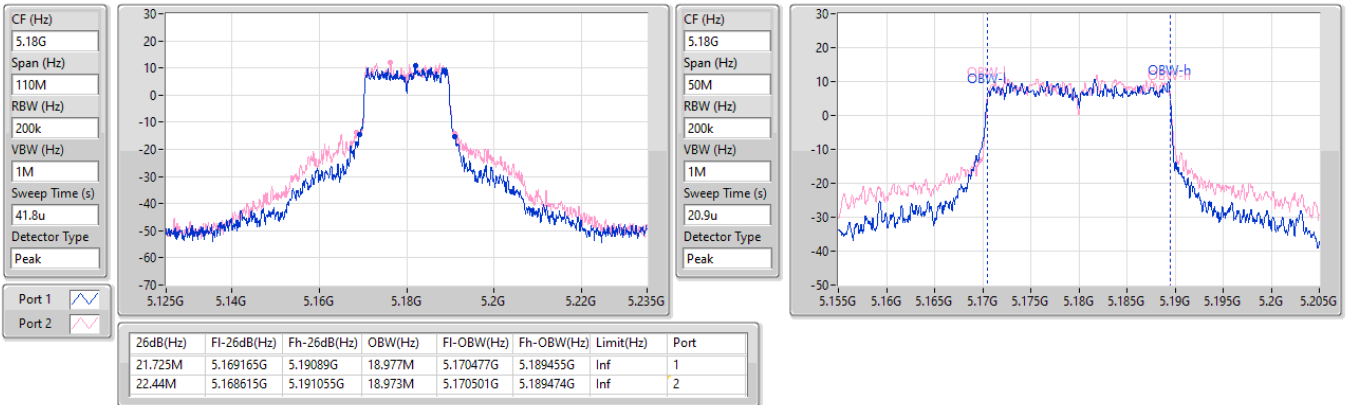


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5180MHz

22/03/2024

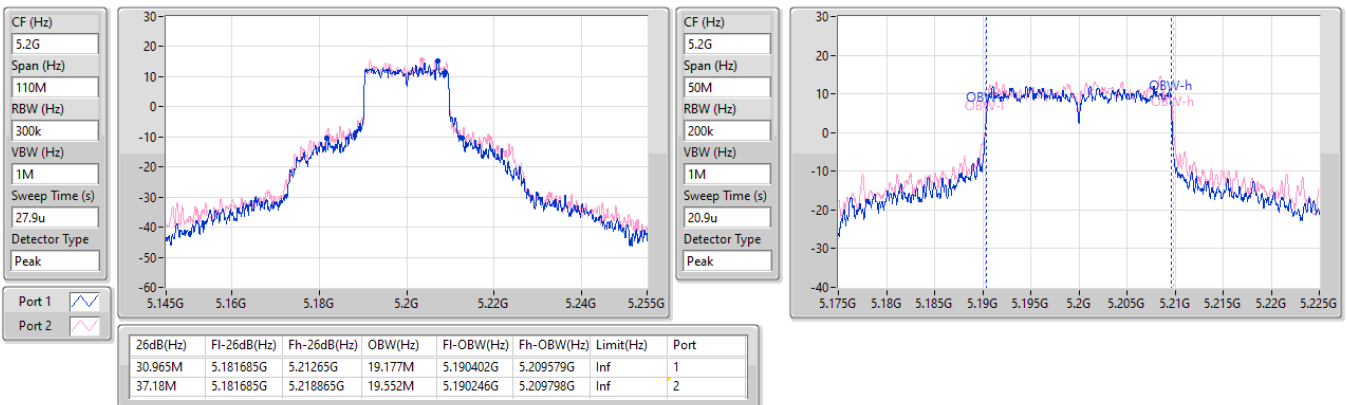


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5200MHz

22/03/2024



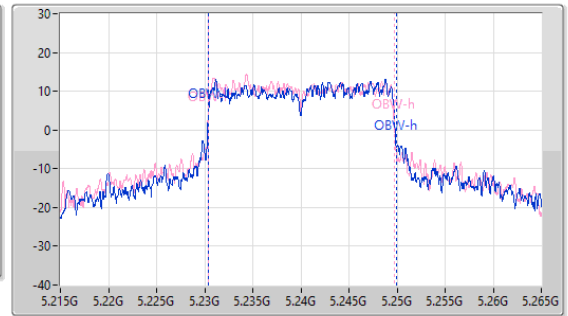
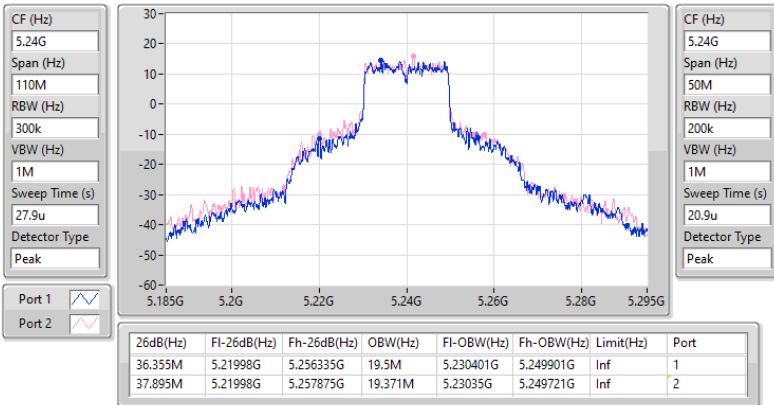


5.15-5.25GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5240MHz

22/03/2024

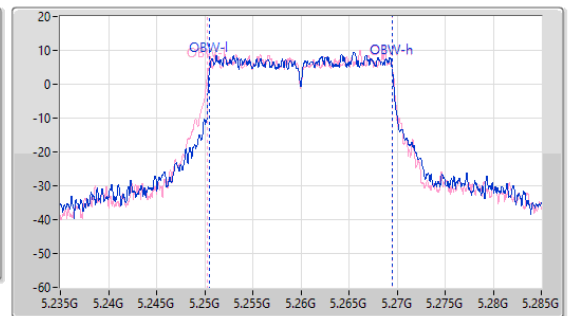
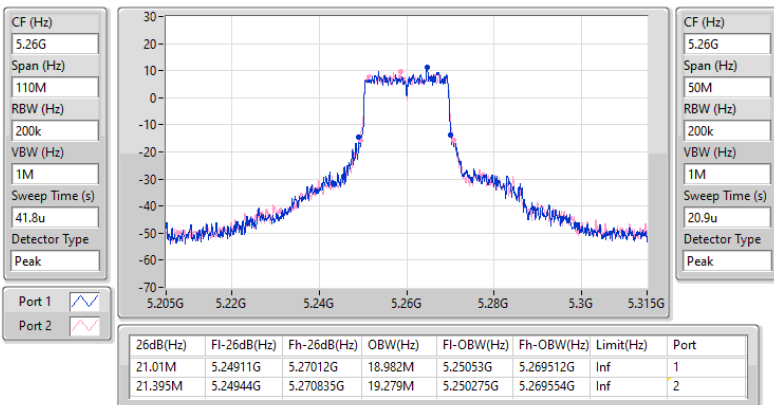


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5260MHz

22/03/2024

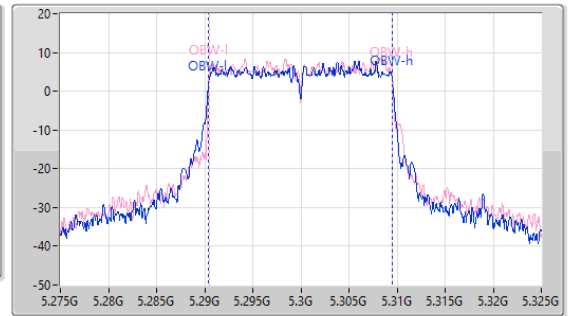
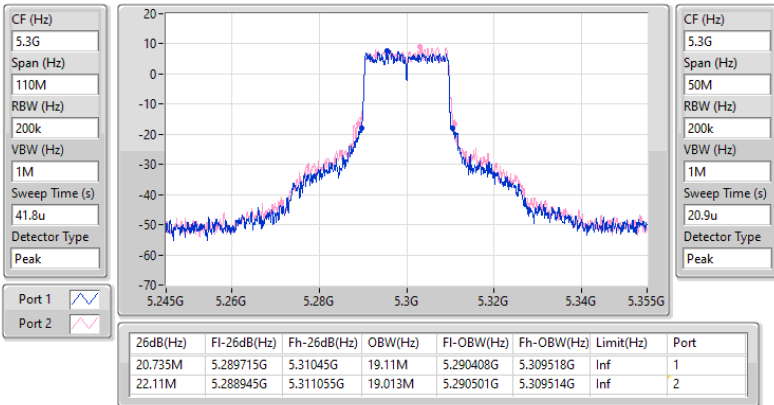


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5300MHz

22/03/2024

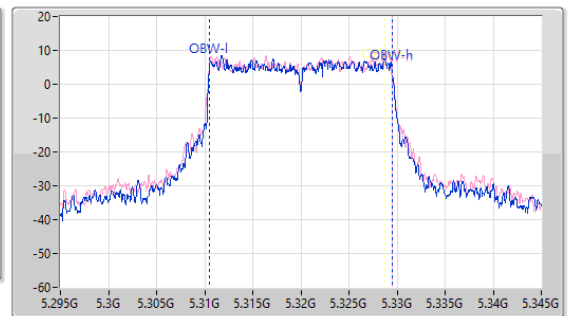
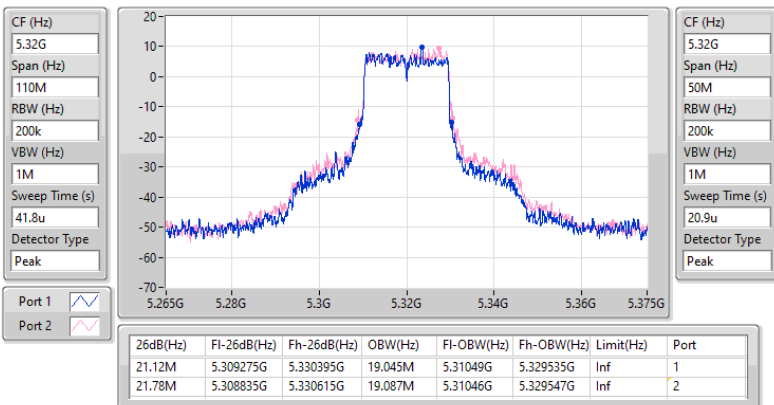


5.25-5.35GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5320MHz

22/03/2024

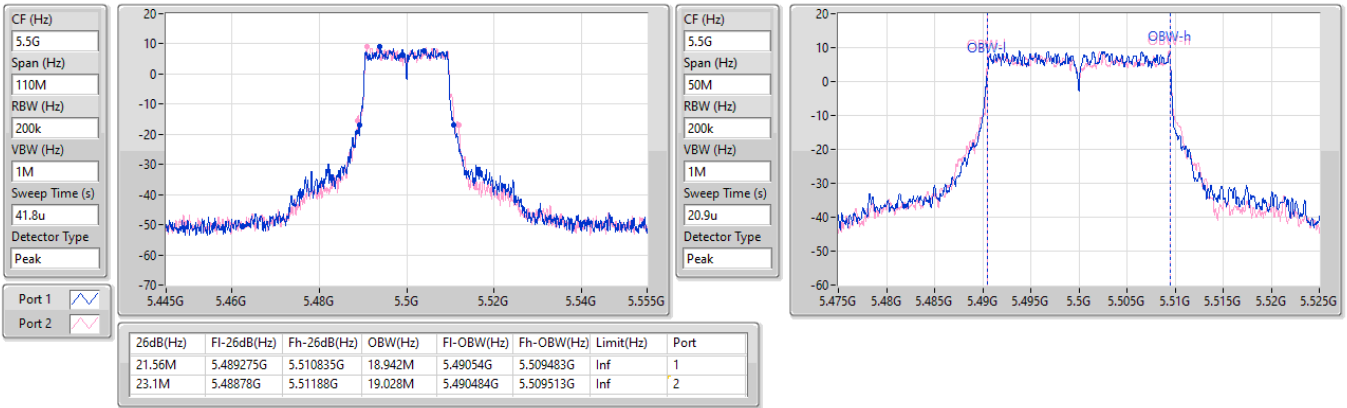


5.47-5.725GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5500MHz

22/03/2024

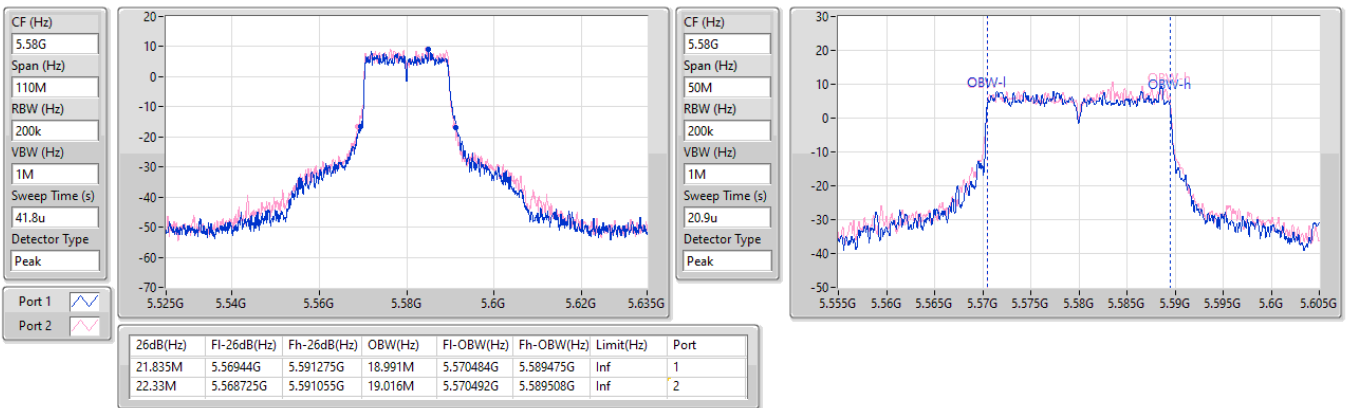


5.47-5.725GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5580MHz

22/03/2024

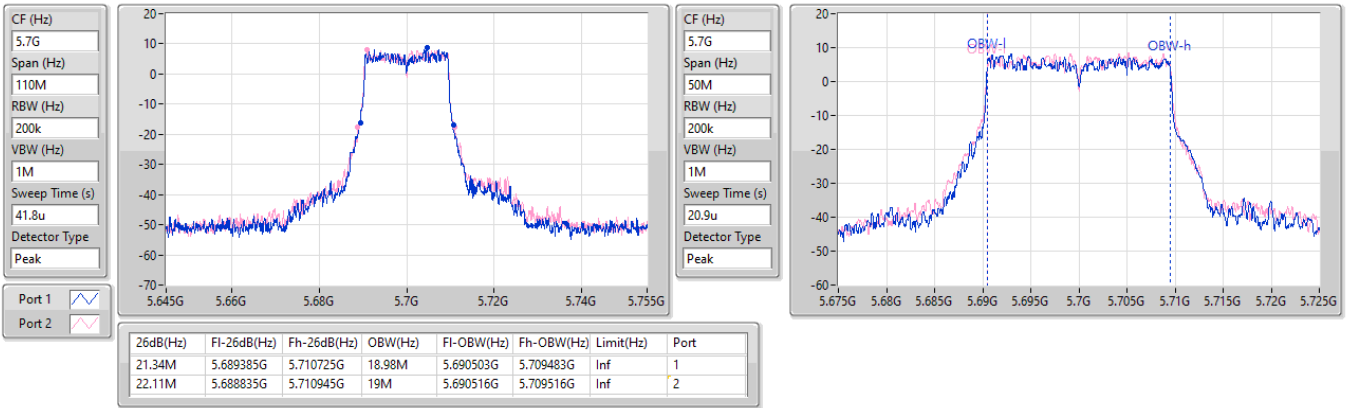


5.47-5.725GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5700MHz

22/03/2024

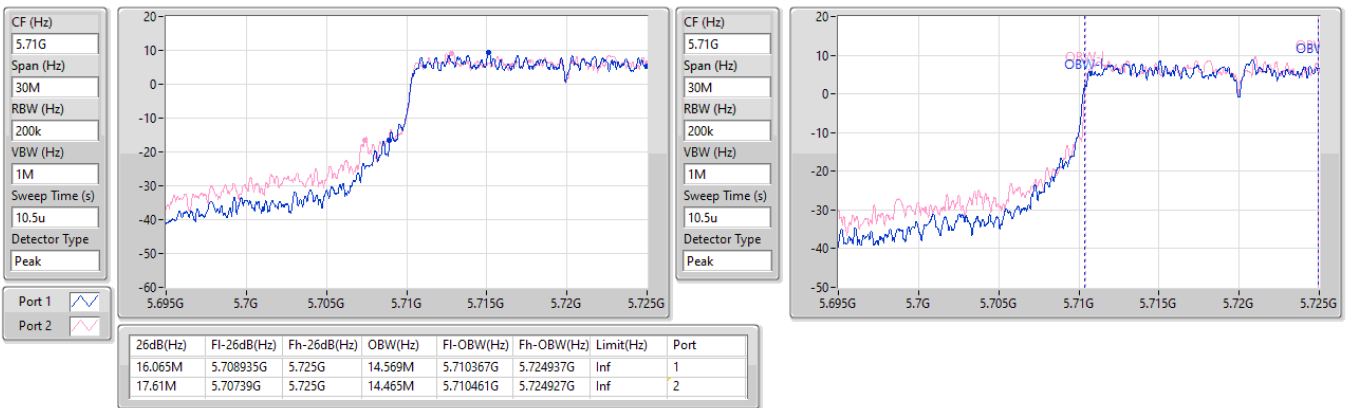


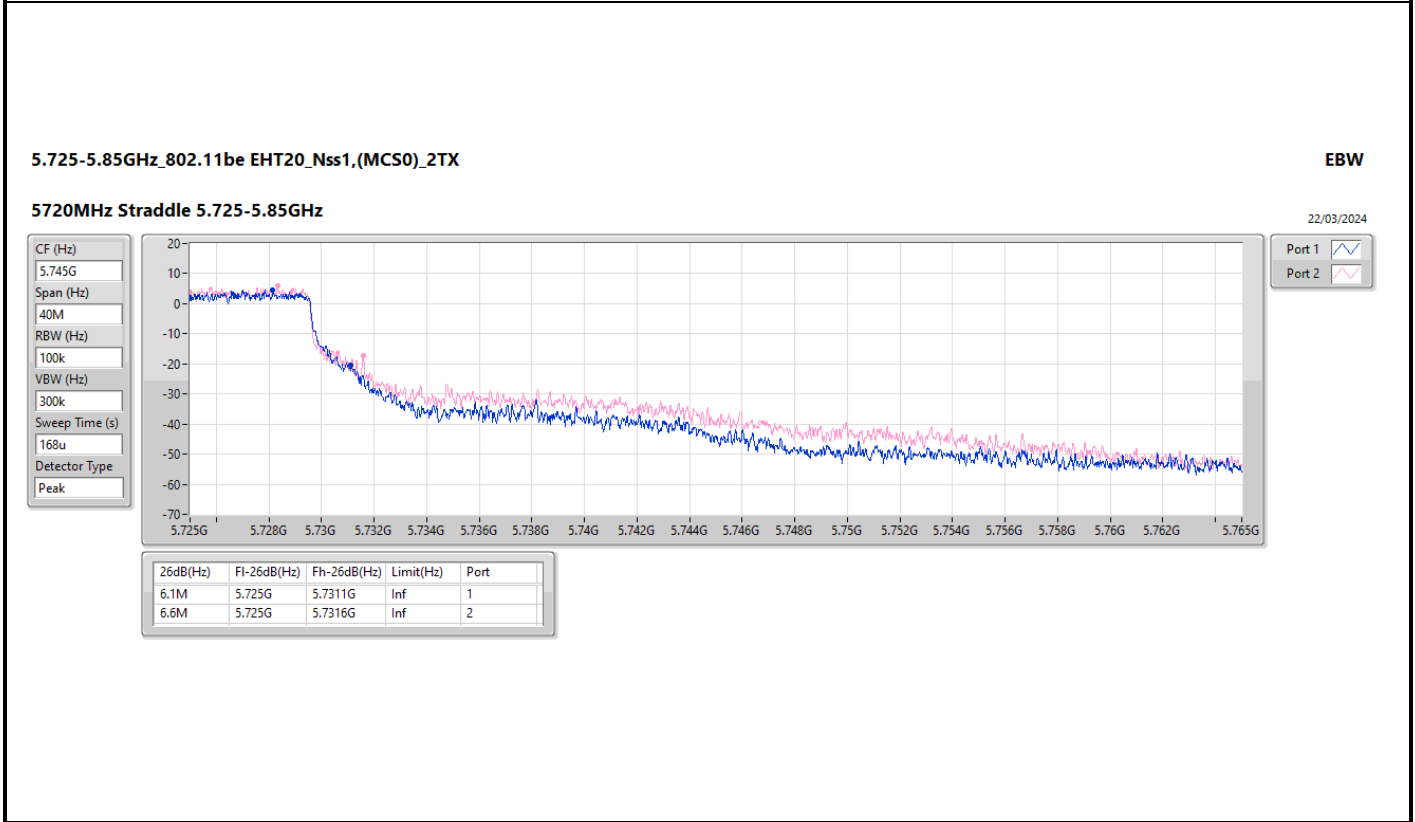
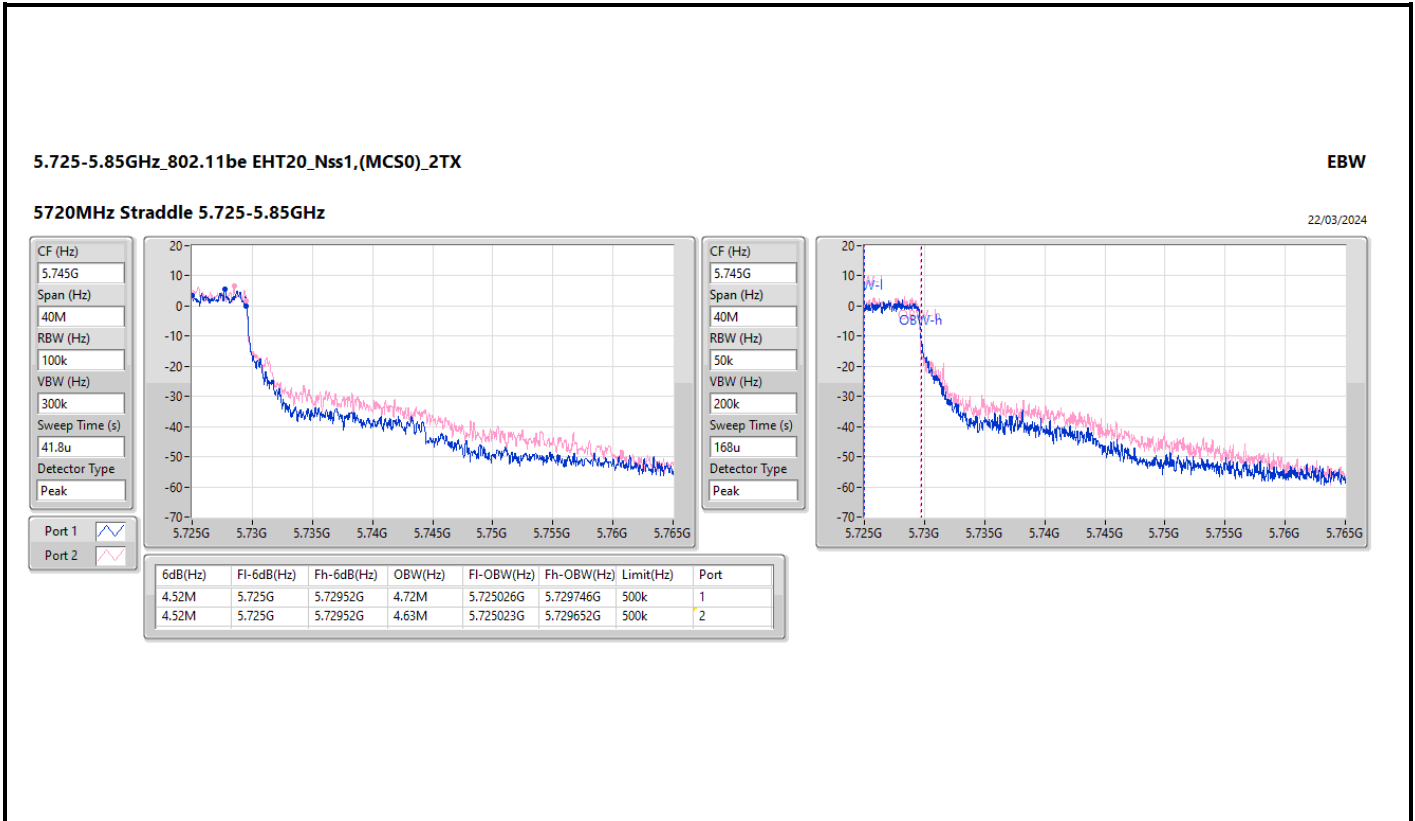
5.47-5.725GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5720MHz Straddle 5.47-5.725GHz

22/03/2024



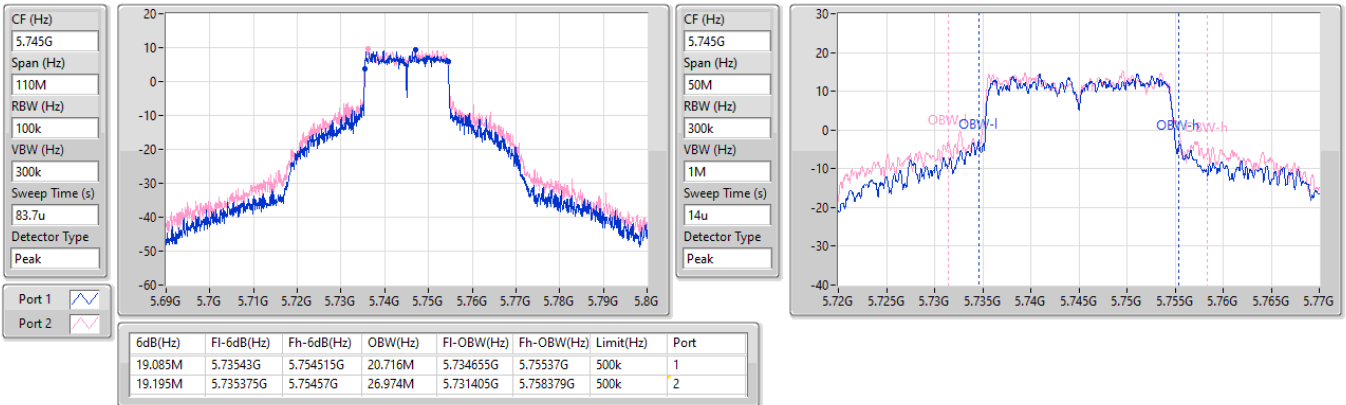


5.725-5.85GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

EBW

5745MHz

22/03/2024

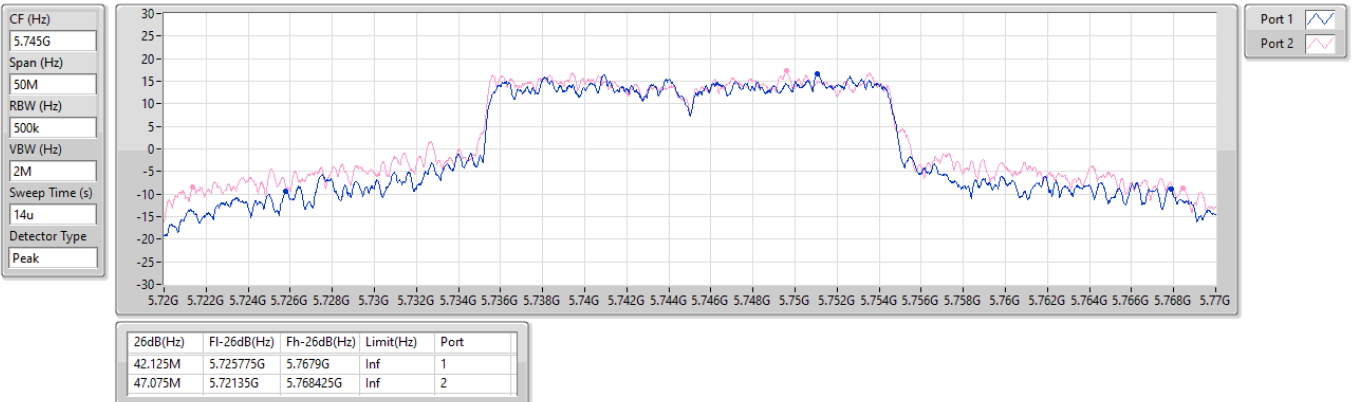


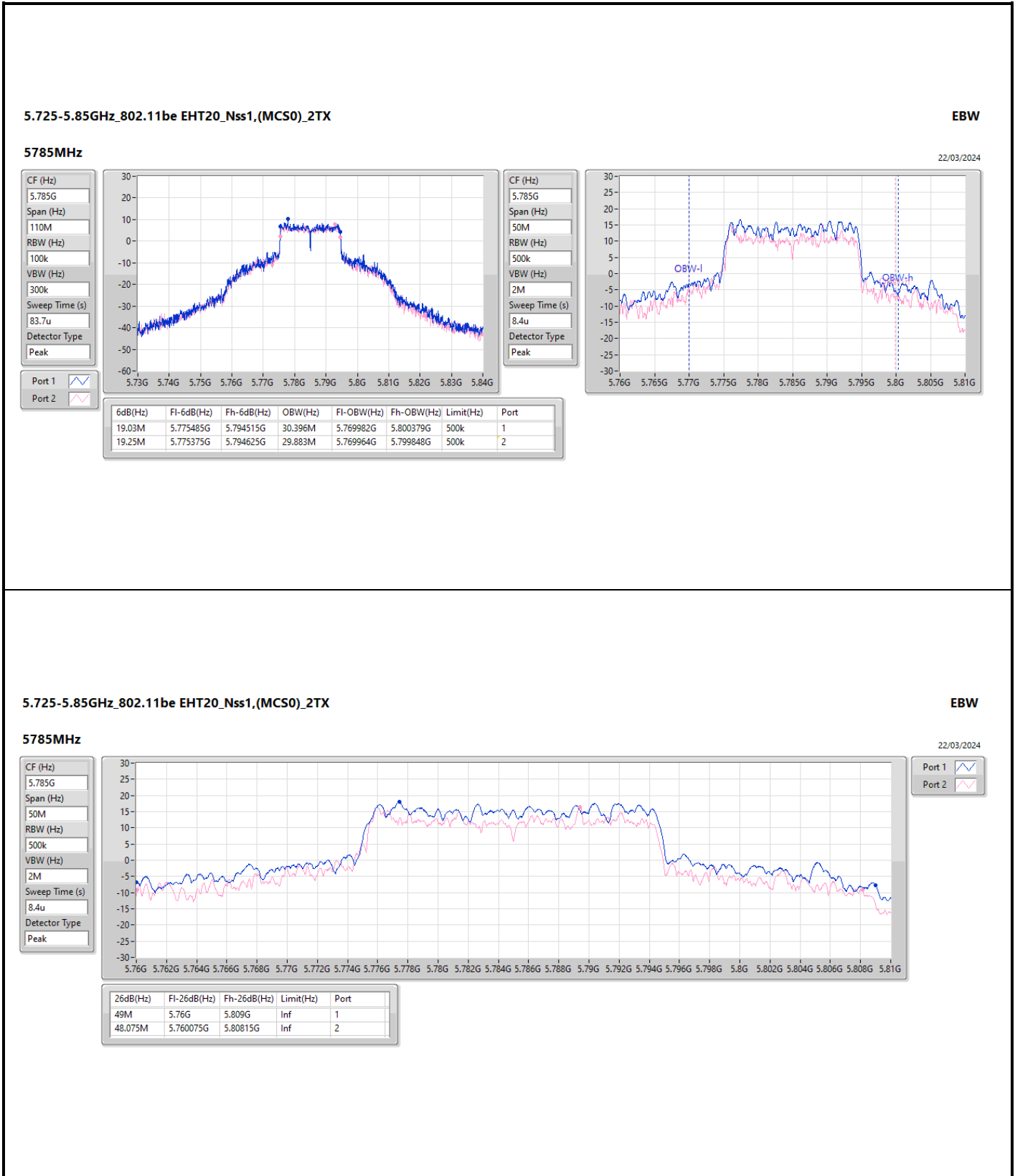
5.725-5.85GHz\_802.11be EHT20\_Nss1,(MCS0)\_2TX

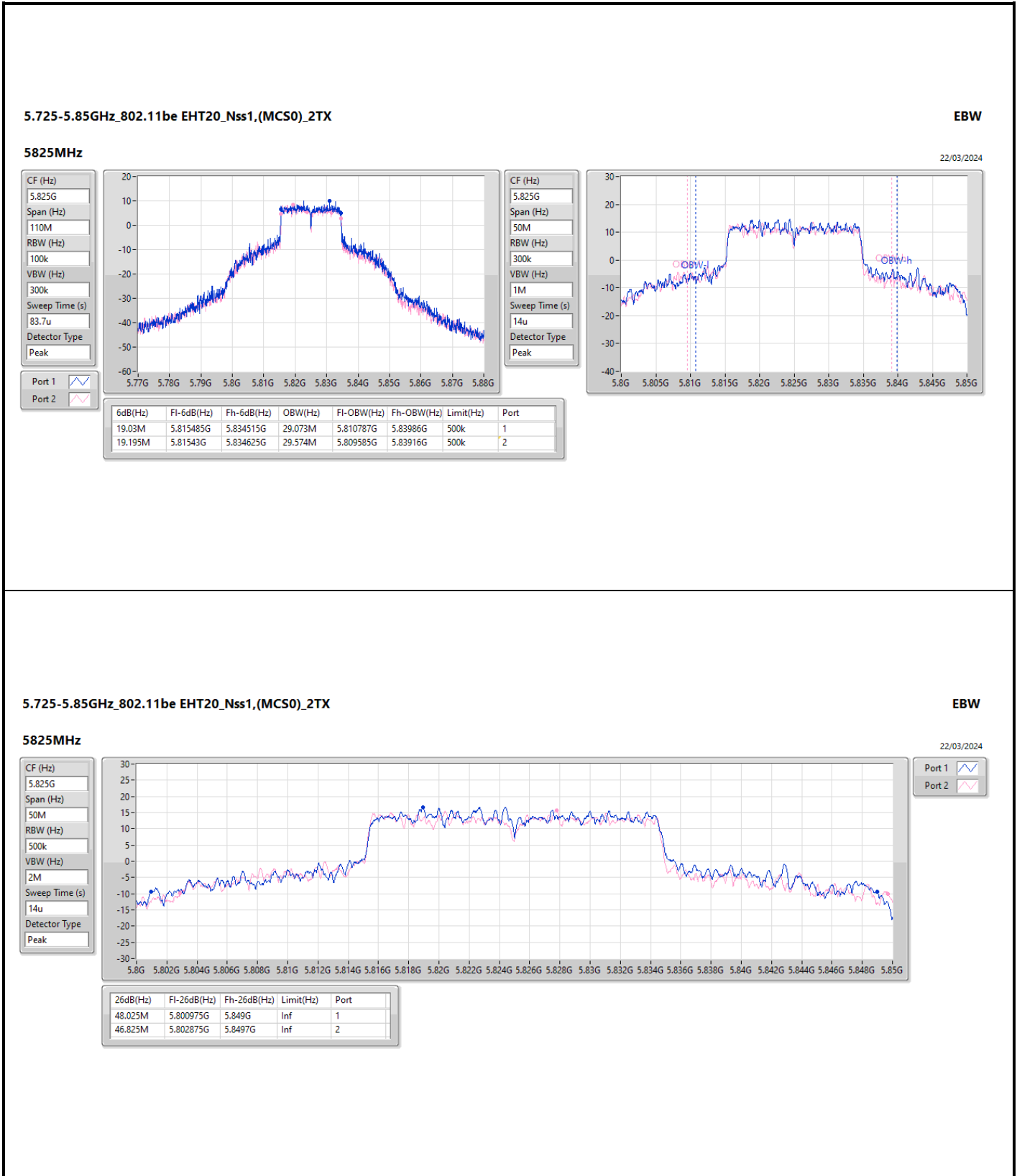
EBW

5745MHz

22/03/2024







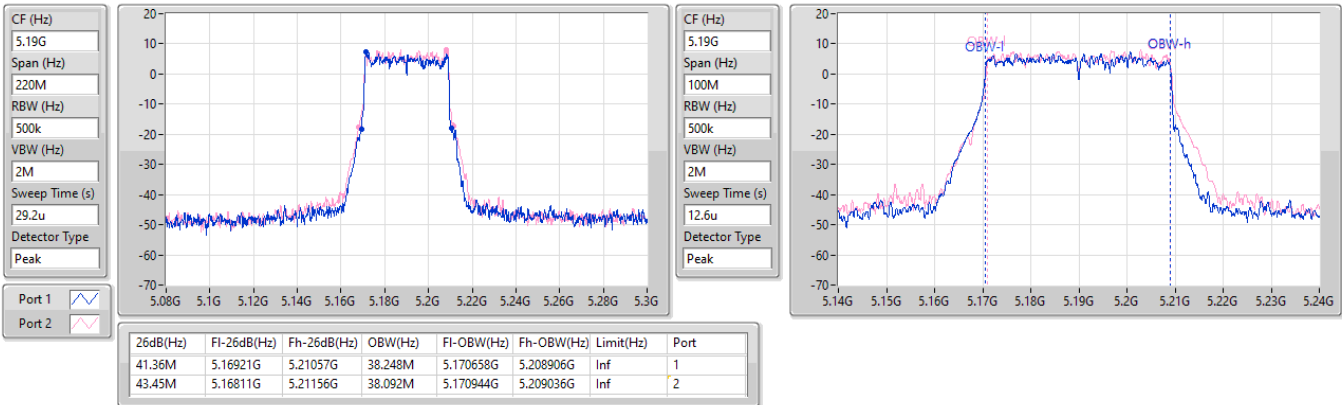


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5190MHz

22/03/2024

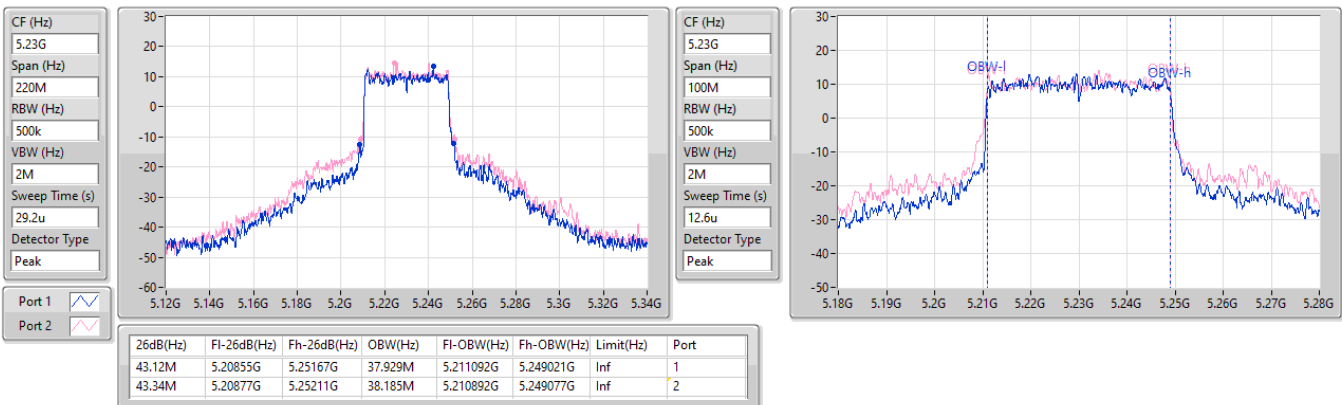


5.15-5.25GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5230MHz

22/03/2024

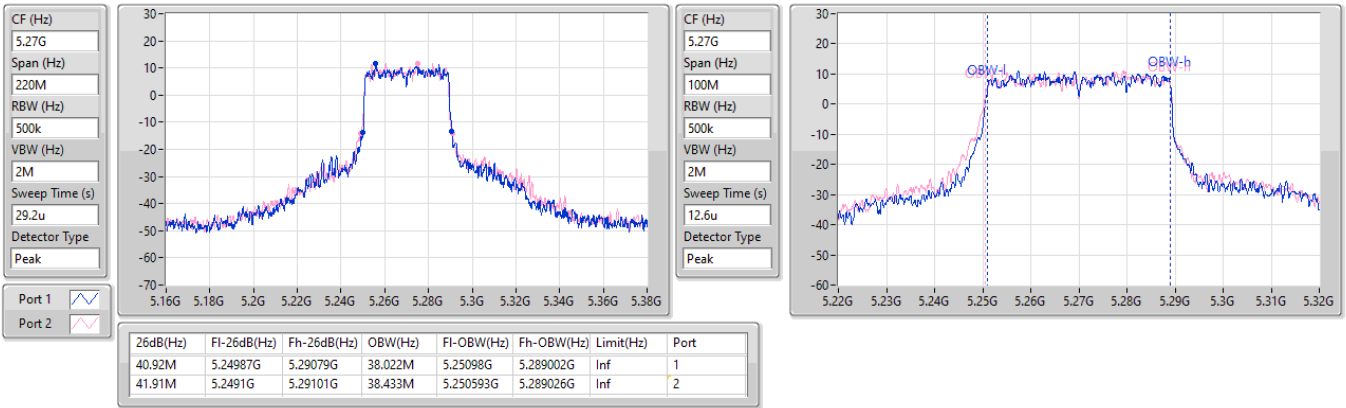


5.25-5.35GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5270MHz

22/03/2024

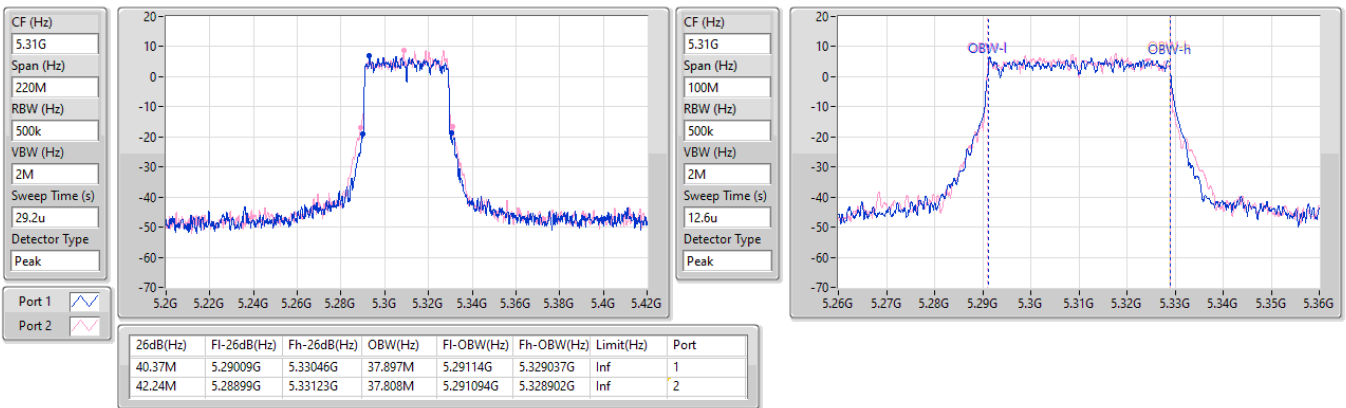


5.25-5.35GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5310MHz

22/03/2024

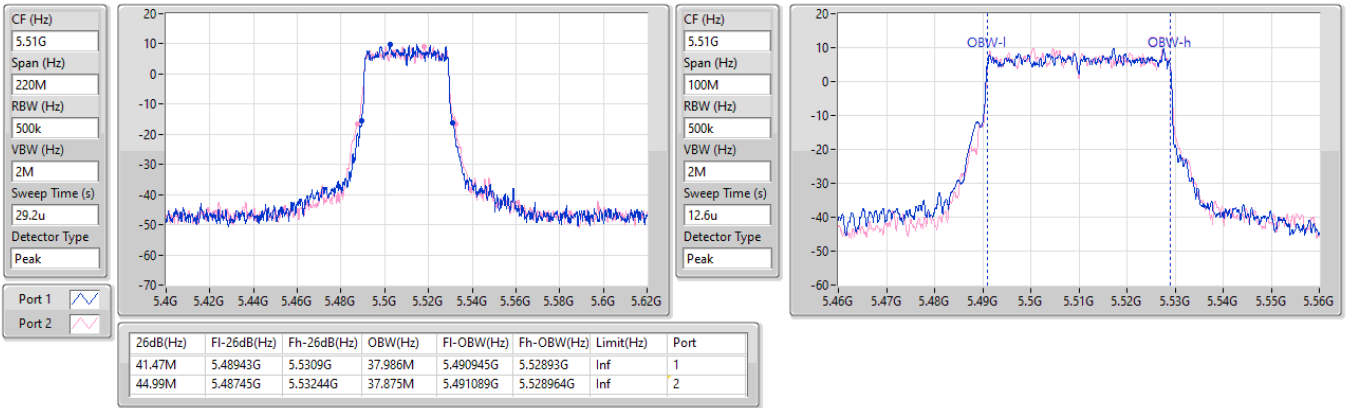


5.47-5.725GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5510MHz

22/03/2024

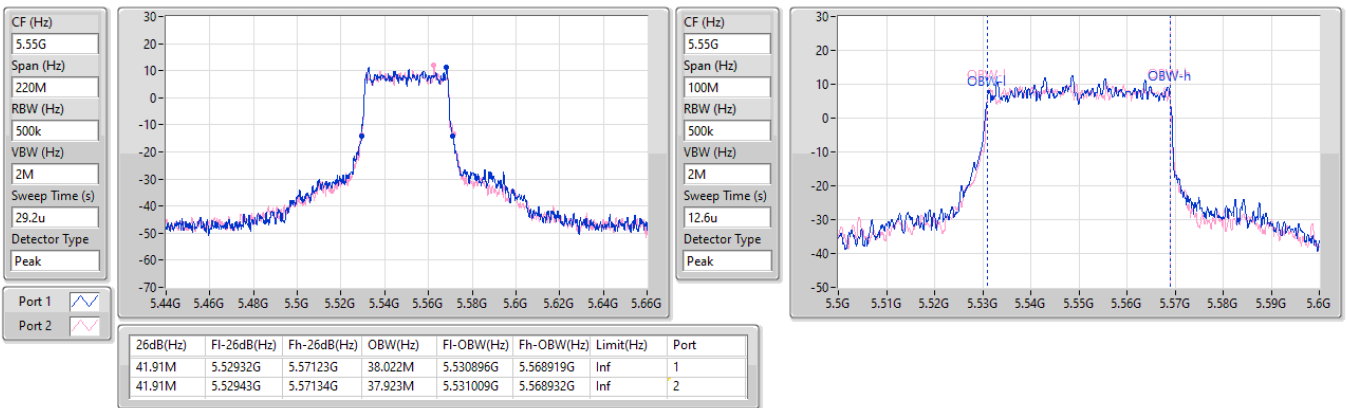


5.47-5.725GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5550MHz

22/03/2024

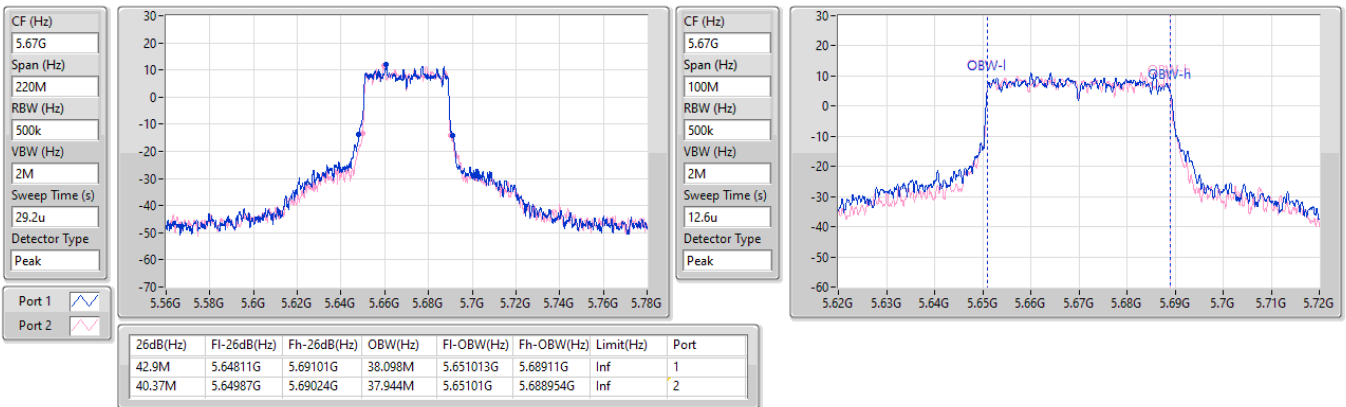


5.47-5.725GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

EBW

5670MHz

22/03/2024

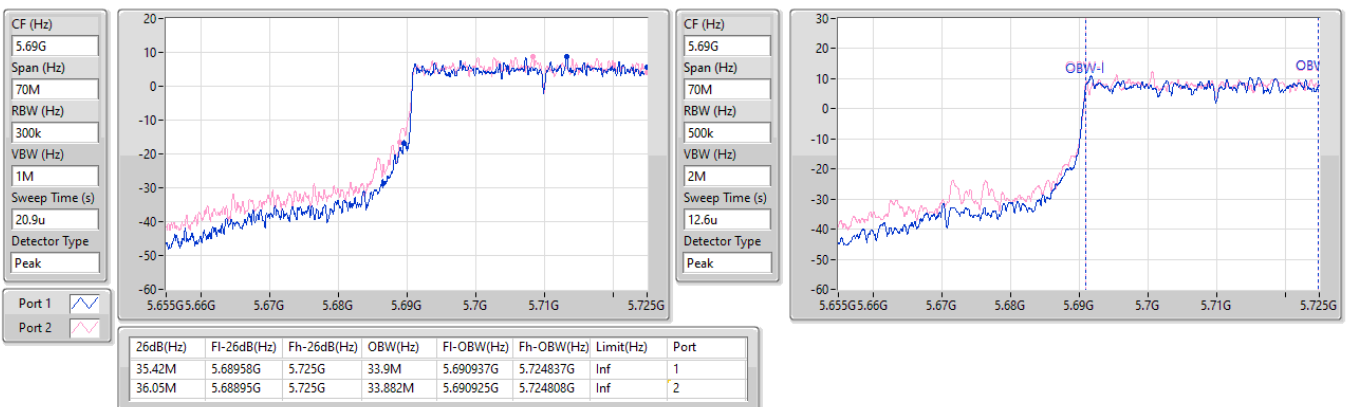


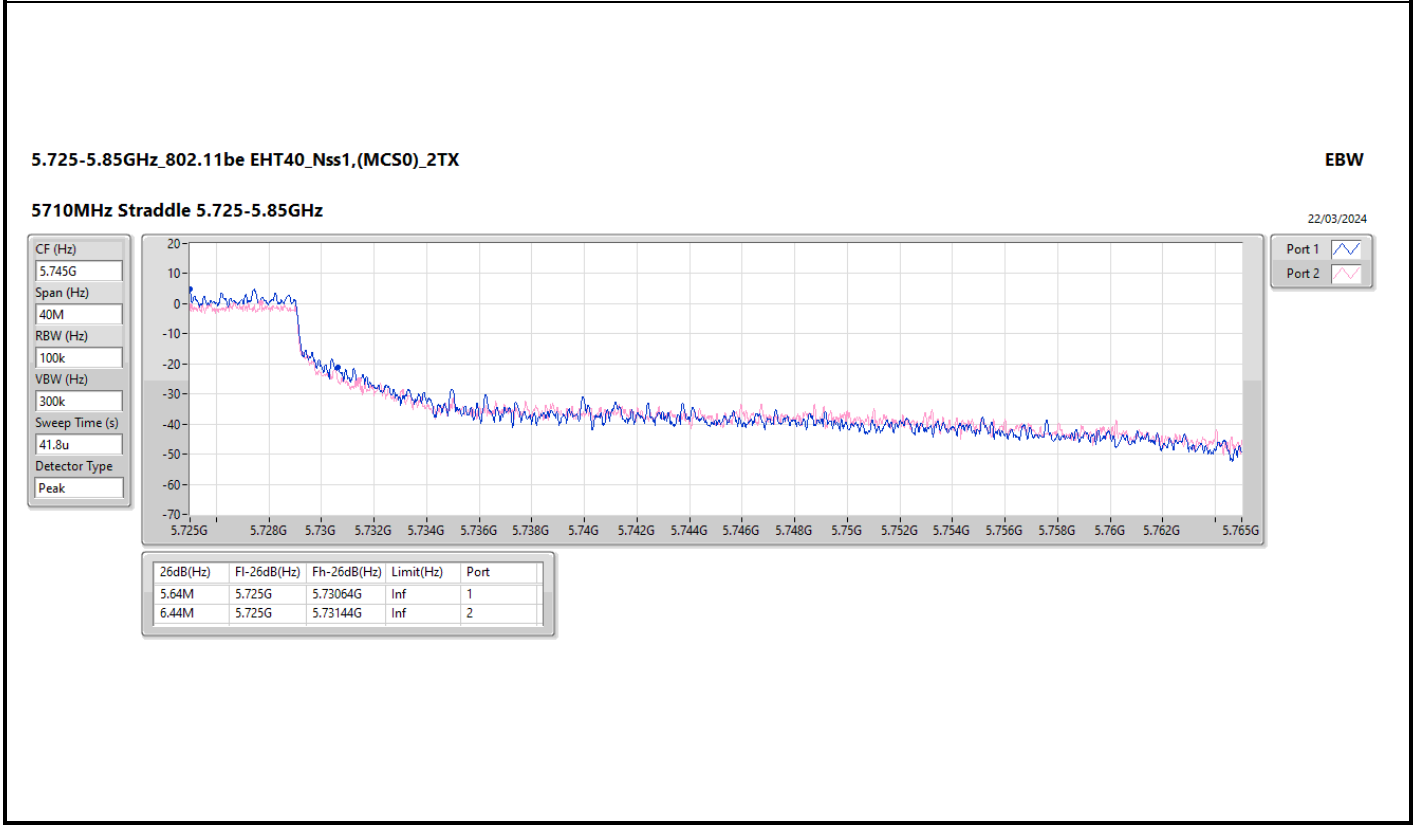
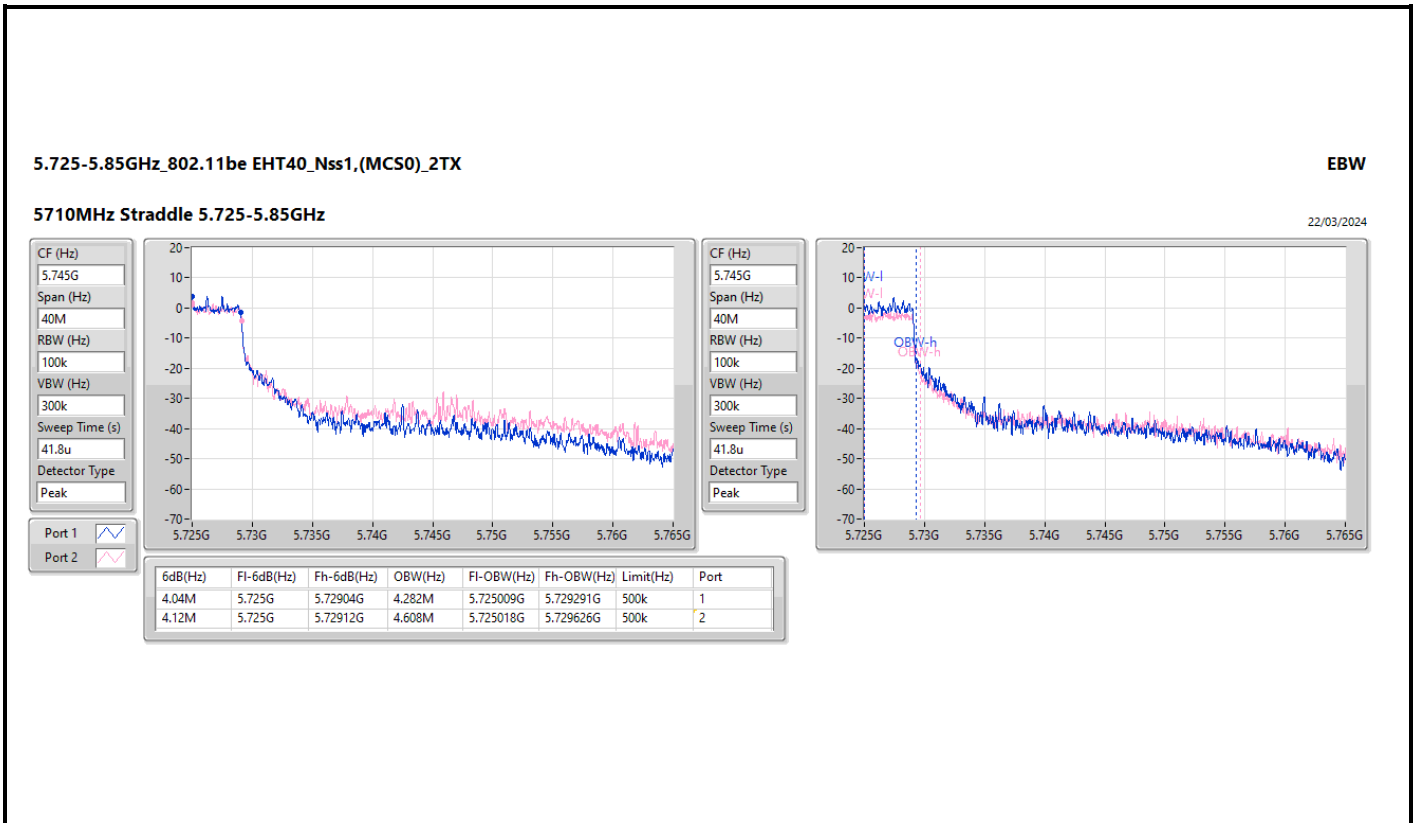
5.47-5.725GHz\_802.11be EHT40\_Nss1,(MCS0)\_2TX

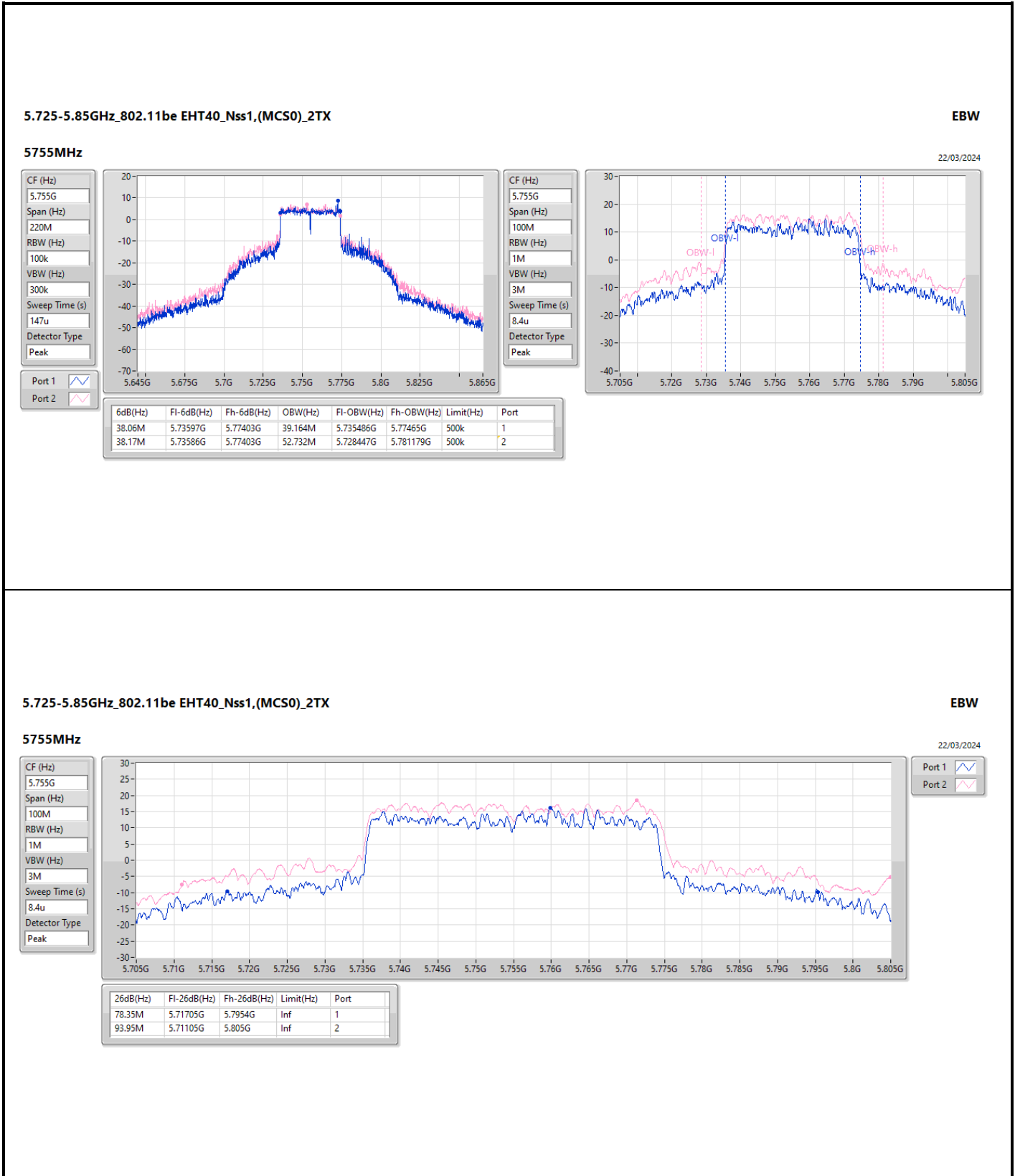
EBW

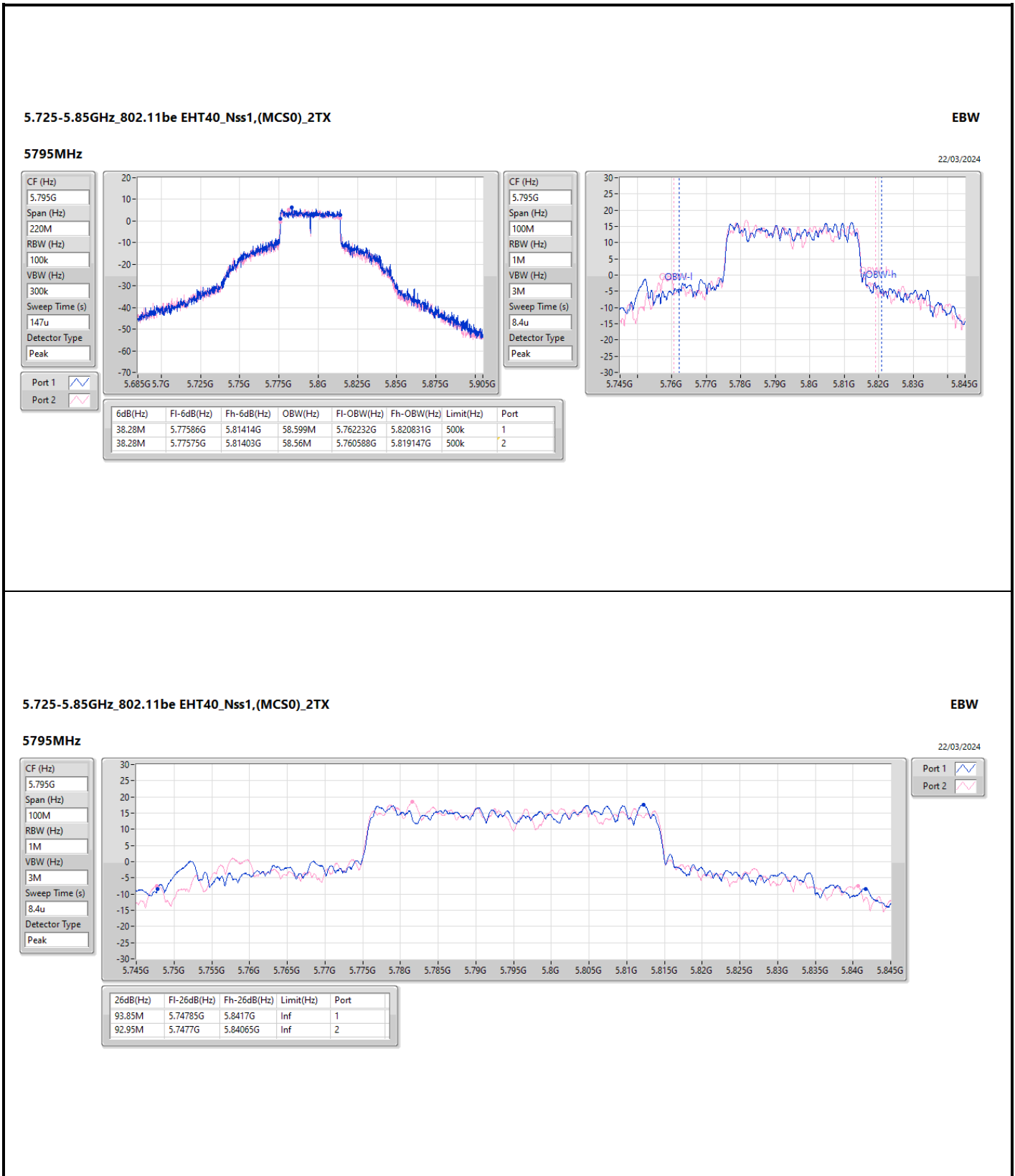
5710MHz Straddle 5.47-5.725GHz

22/03/2024







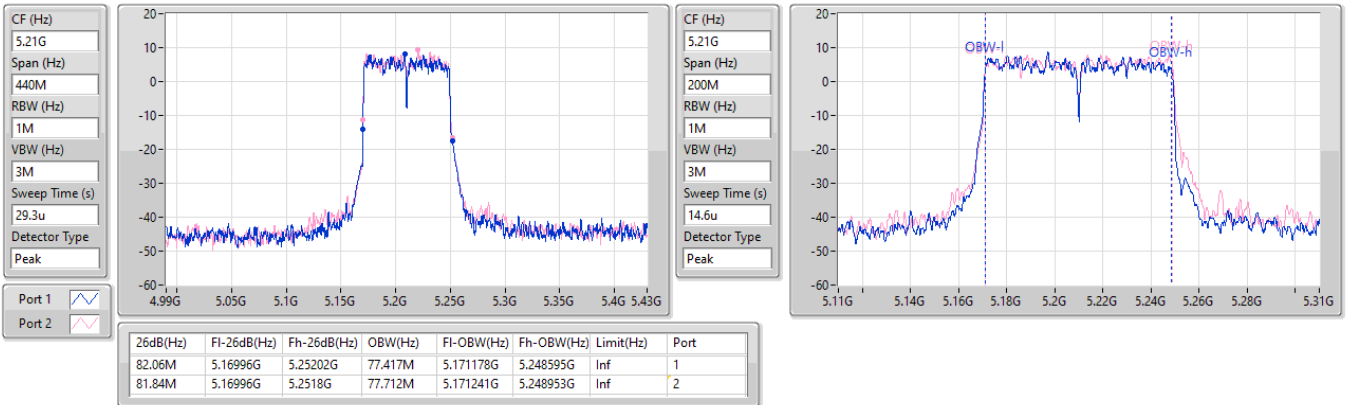


5.15-5.25GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5210MHz

22/03/2024

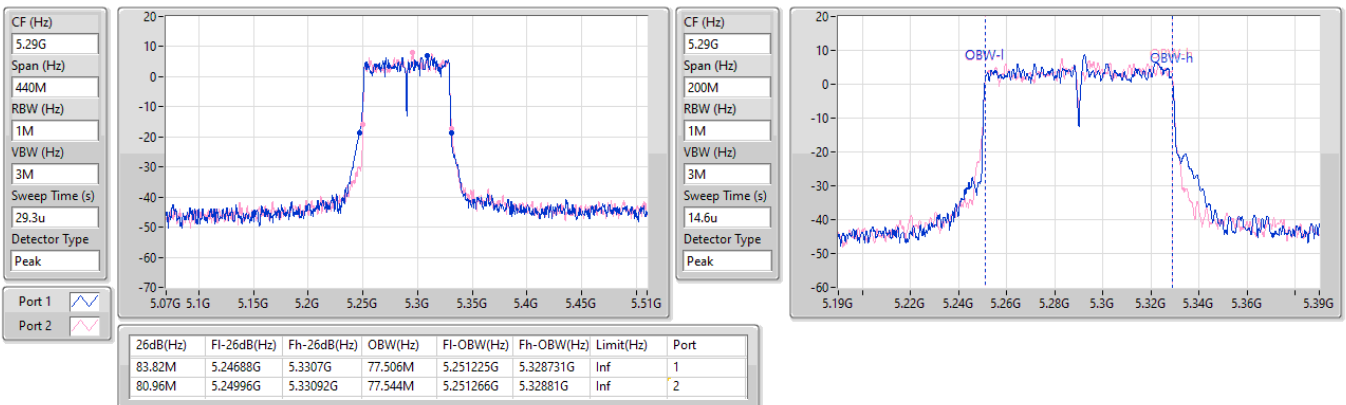


5.25-5.35GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5290MHz

22/03/2024





5.47-5.725GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5530MHz

22/03/2024

CF (Hz)  
5.53G

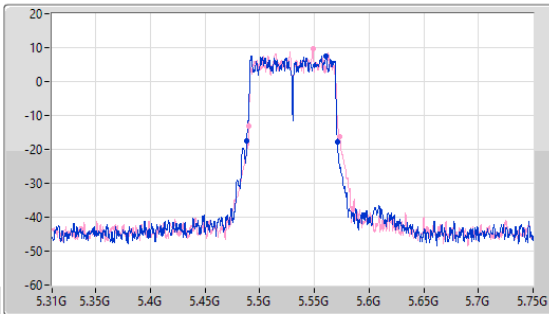
Span (Hz)  
440M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
29.3u

Detector Type  
Peak



CF (Hz)  
5.53G

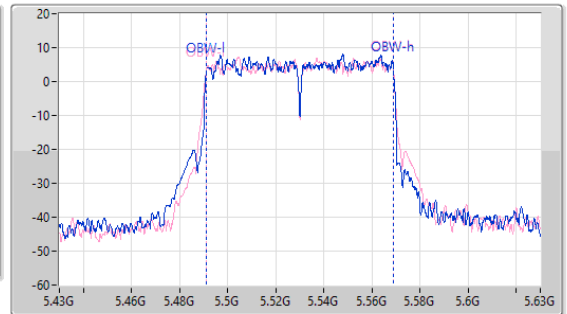
Span (Hz)  
200M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
14.6u

Detector Type  
Peak



26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.94M	5.48798G	5.57092G	77.525M	5.491217G	5.568742G	Inf	1
82.94M	5.48996G	5.5729G	77.968M	5.490939G	5.568907G	Inf	2

5.47-5.725GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5610MHz

22/03/2024

CF (Hz)  
5.61G

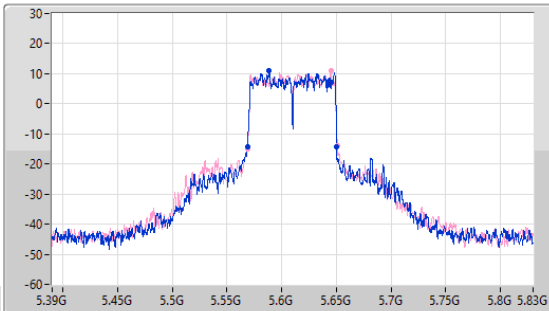
Span (Hz)  
440M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
29.3u

Detector Type  
Peak



CF (Hz)  
5.61G

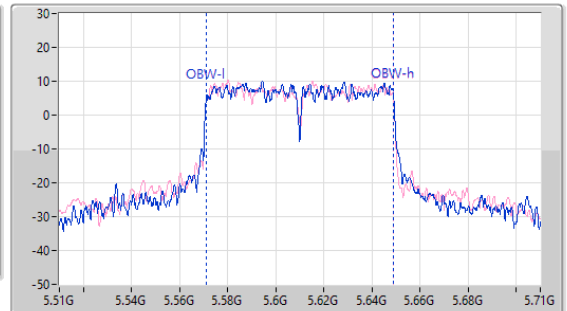
Span (Hz)  
200M

RBW (Hz)  
1M

VBW (Hz)  
3M

Sweep Time (s)  
14.6u

Detector Type  
Peak



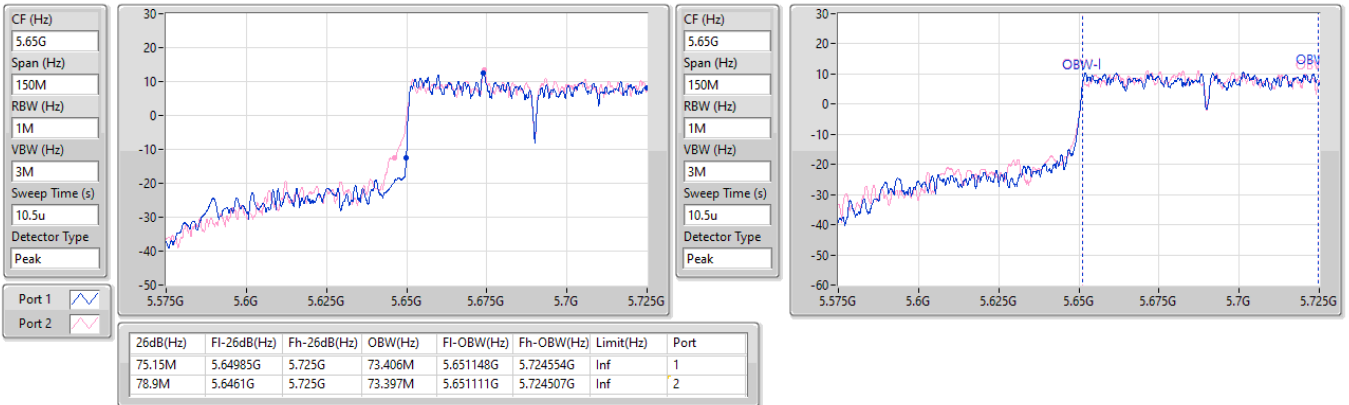
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
81.84M	5.56842G	5.65026G	77.687M	5.571188G	5.648874G	Inf	1
82.5M	5.56842G	5.65092G	77.567M	5.571192G	5.648758G	Inf	2

5.47-5.725GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

EBW

5690MHz Straddle 5.47-5.725GHz

22/03/2024

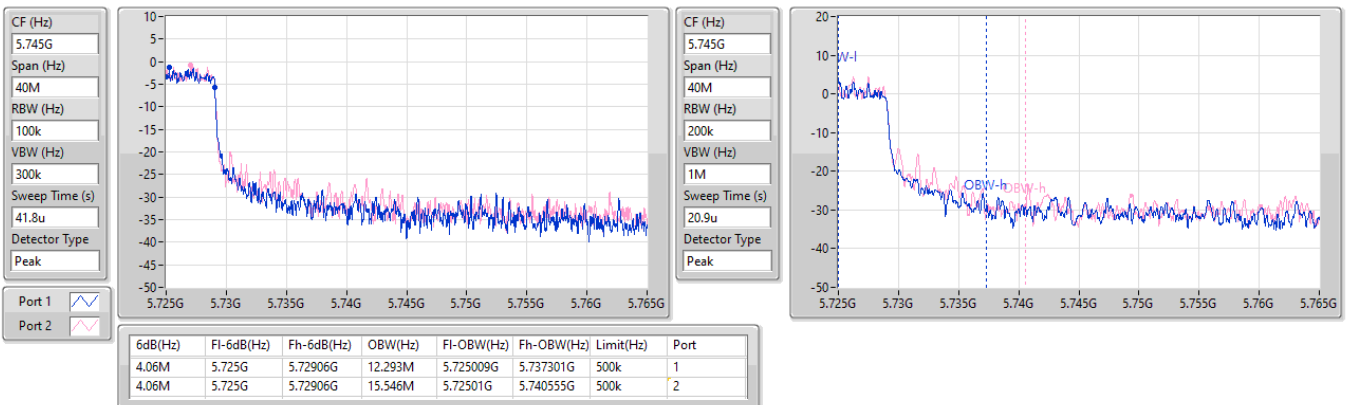


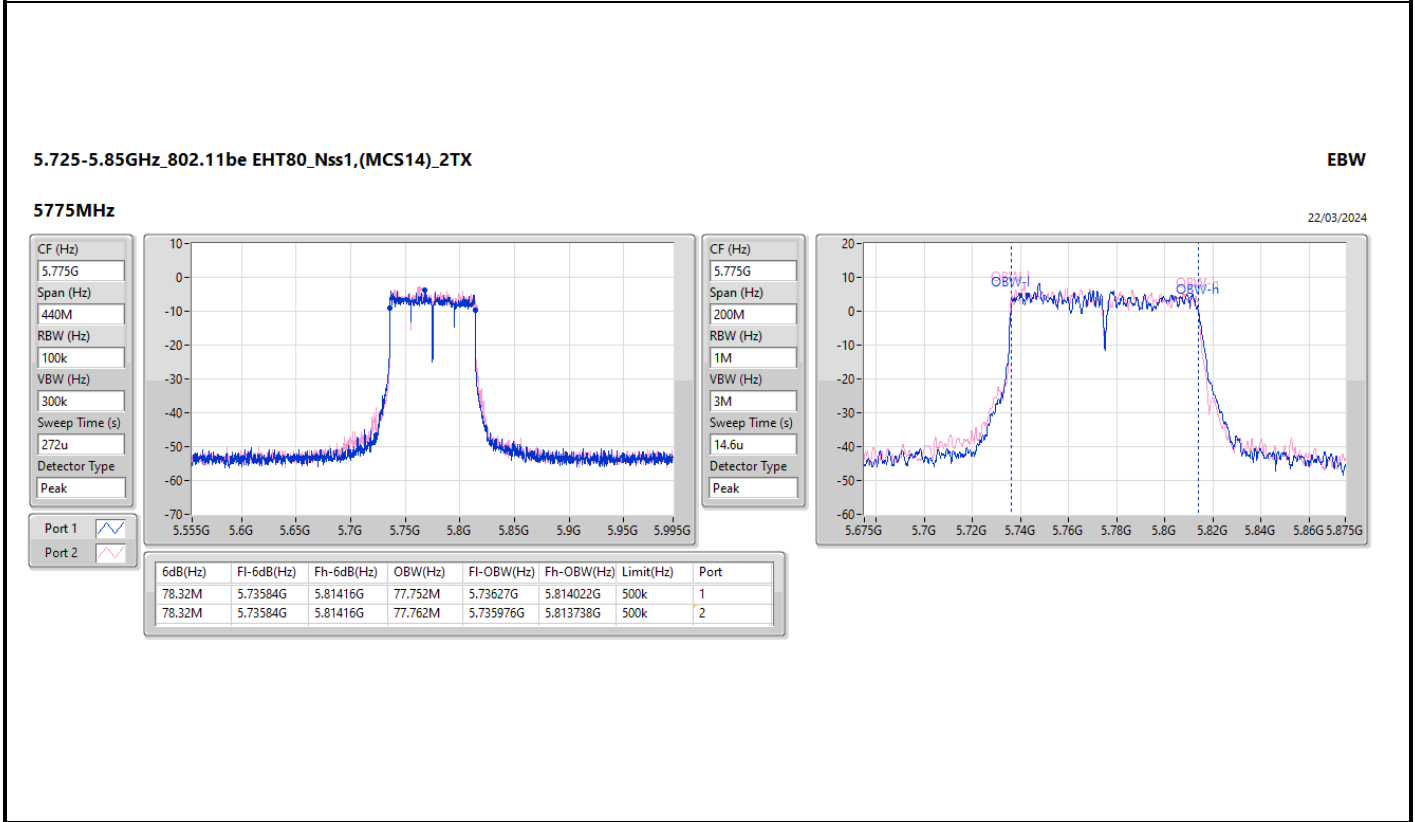
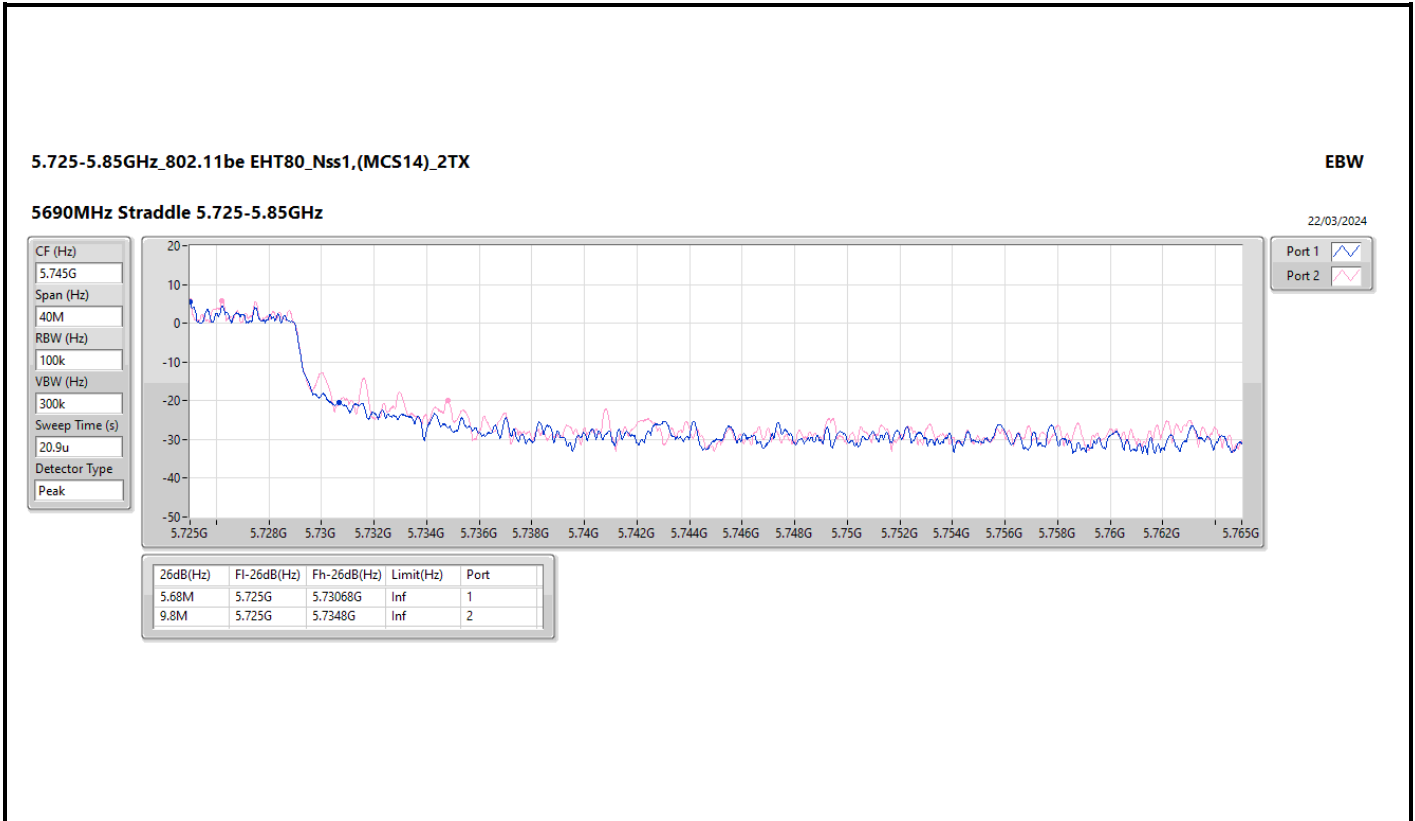
5.725-5.85GHz\_802.11be EHT80\_Nss1,(MCS14)\_2TX

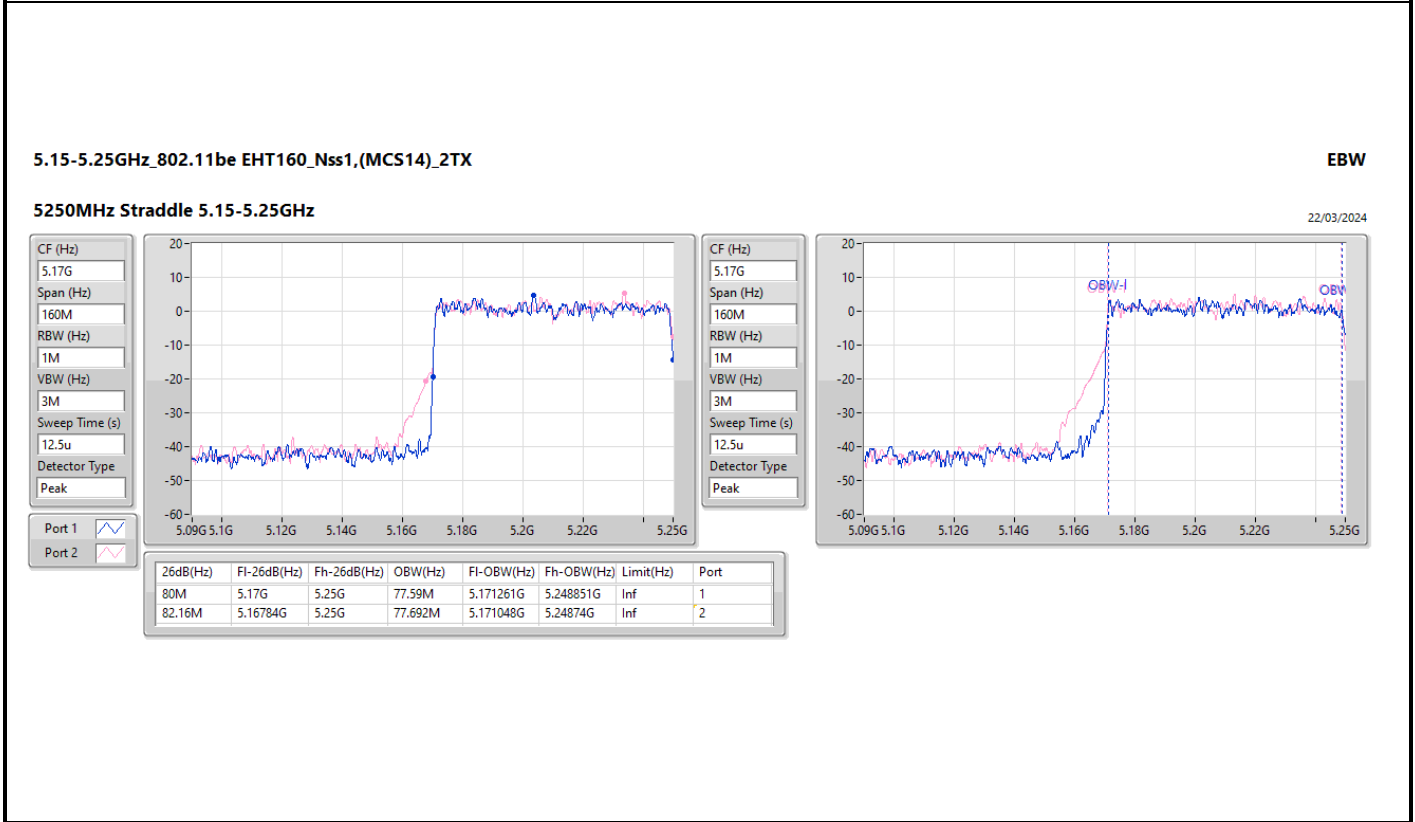
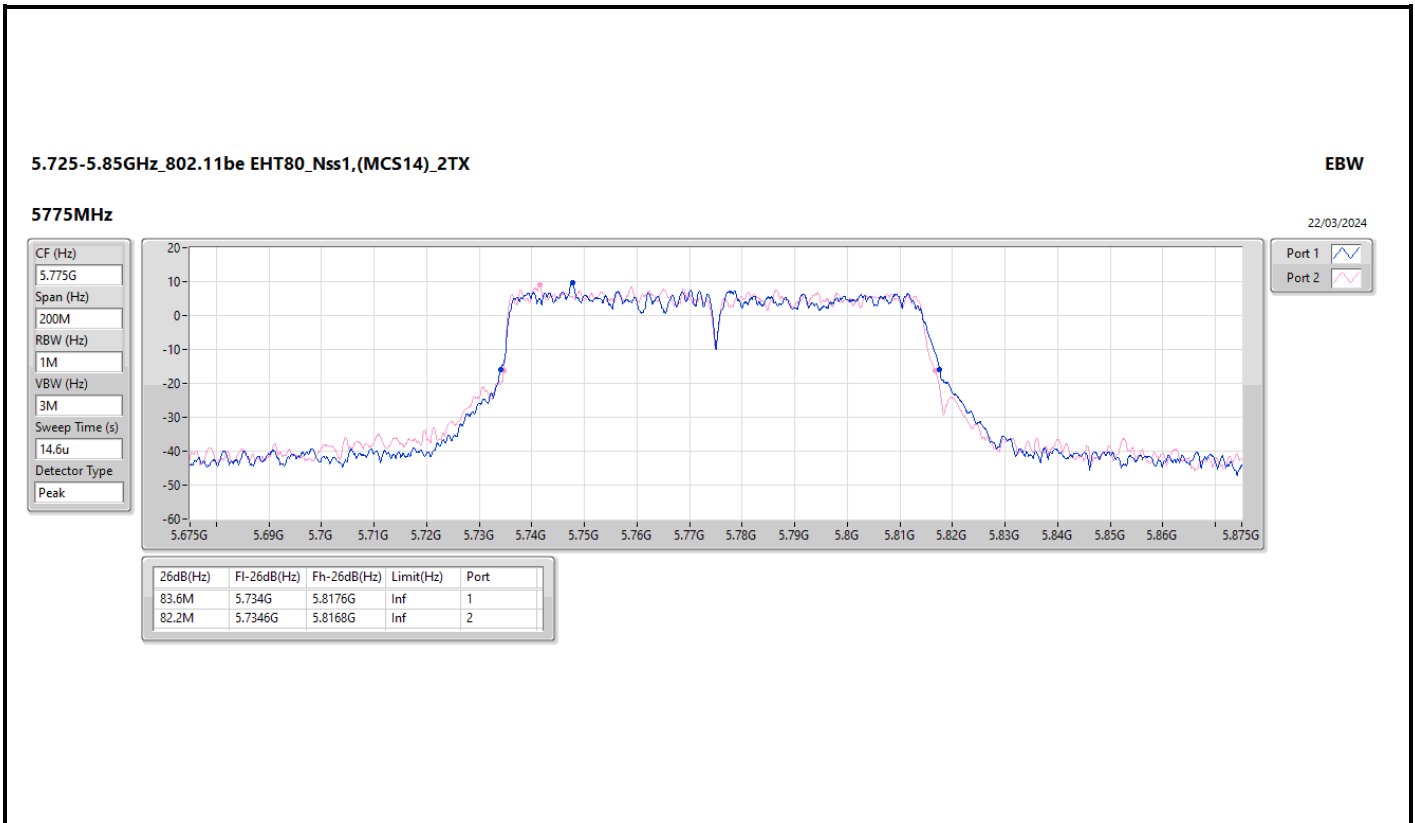
EBW

5690MHz Straddle 5.725-5.85GHz

22/03/2024





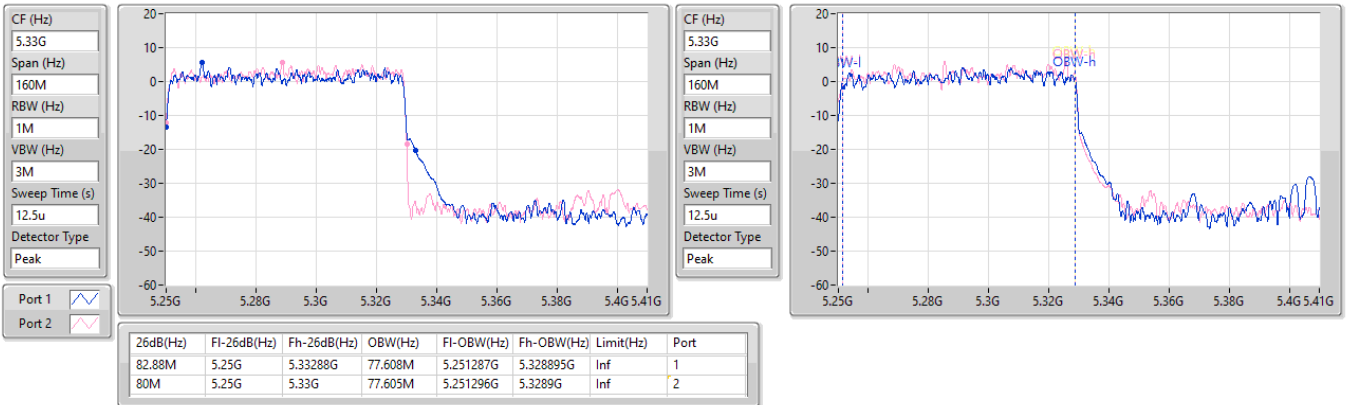


5.25-5.35GHz\_802.11be EHT160\_Nss1,(MCS14)\_2TX

EBW

5250MHz Straddle 5.25-5.35GHz

22/03/2024

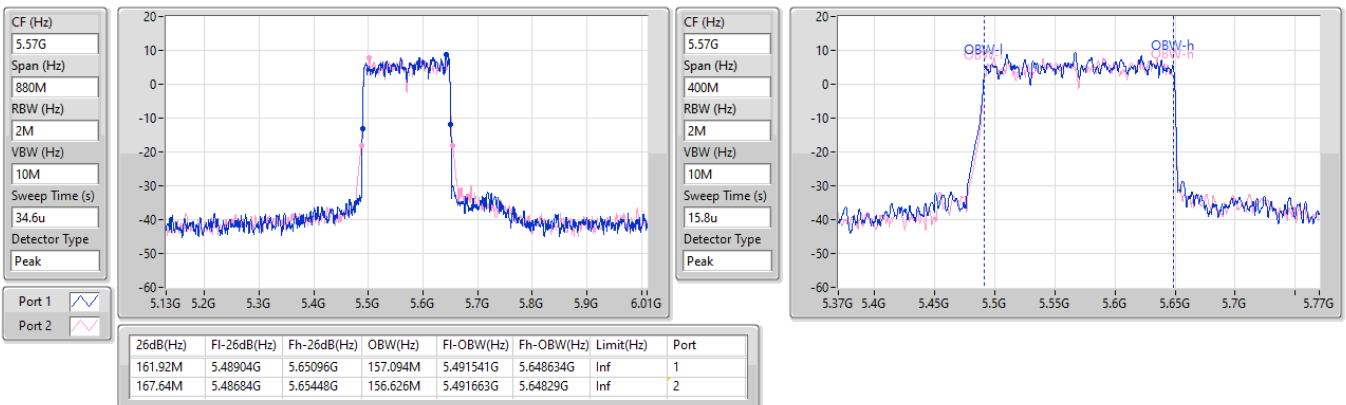


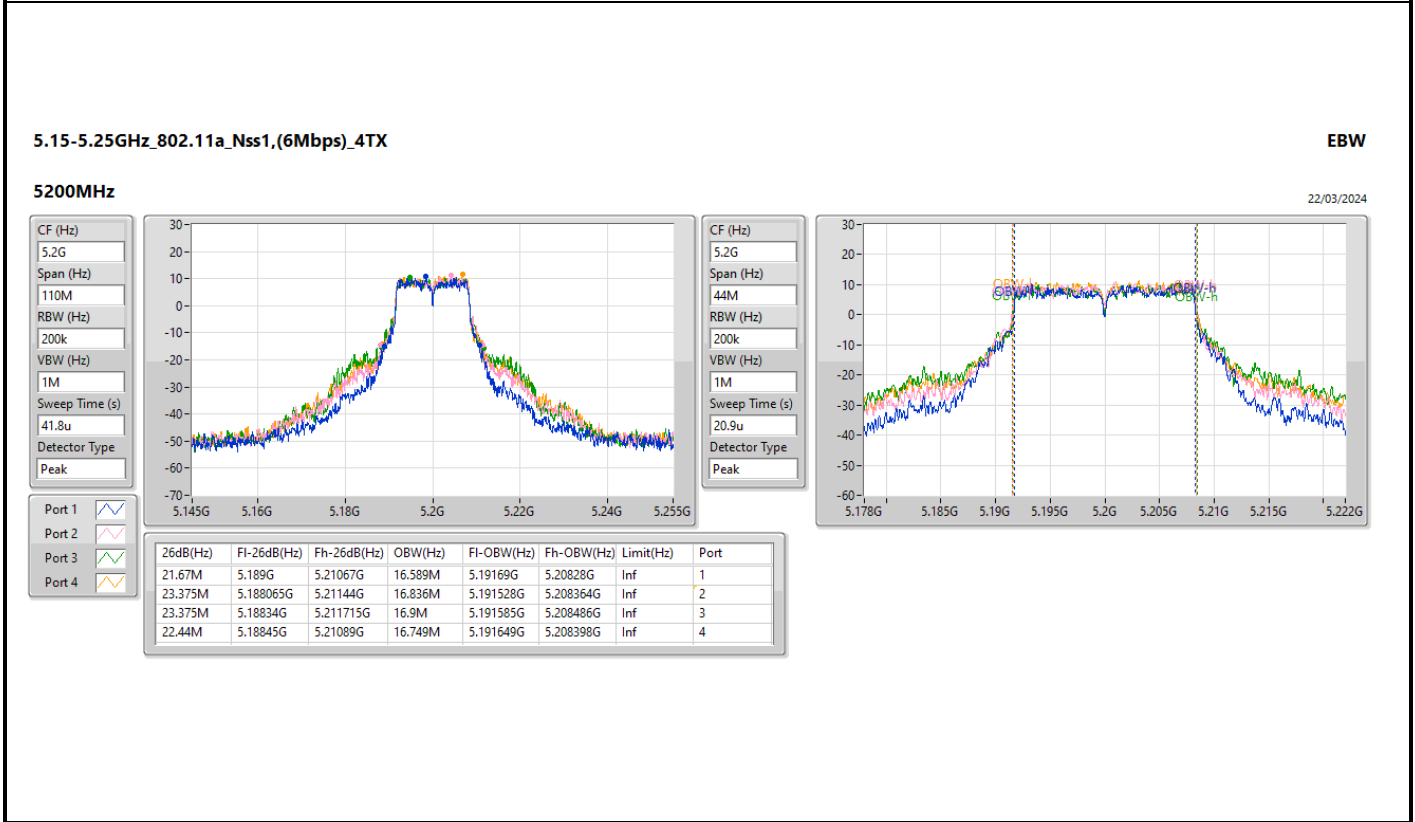
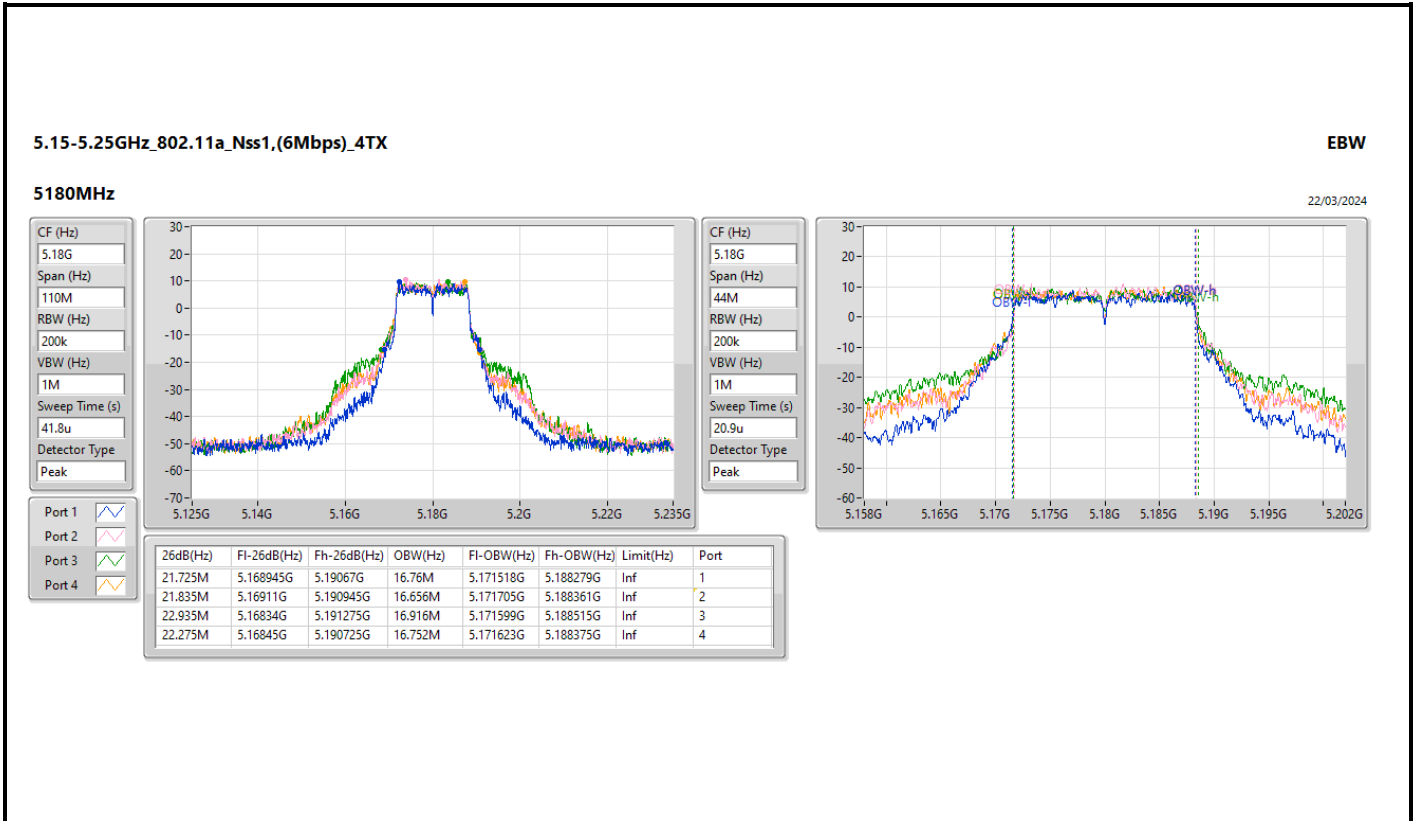
5.47-5.725GHz\_802.11be EHT160\_Nss1,(MCS14)\_2TX

EBW

5570MHz

22/03/2024



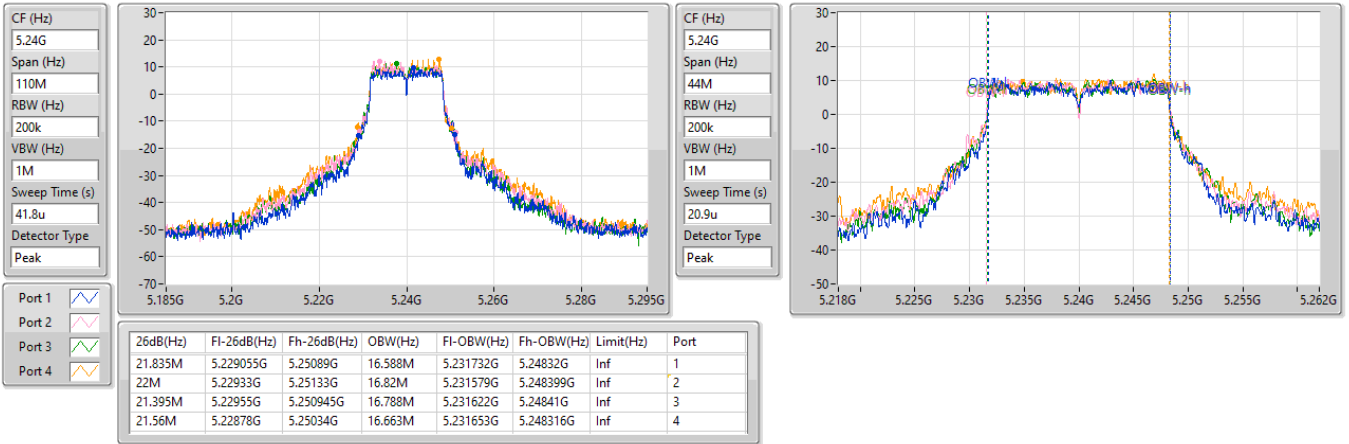


5.15-5.25GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5240MHz

22/03/2024



5.25-5.35GHz\_802.11a\_Nss1,(6Mbps)\_4TX

EBW

5260MHz

22/03/2024

