

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Manufacturer: ASUSTeK COMPUTER INC.
1F., No.15, Lide Rd., Beitou District, Taipei City 112, Taiwan

Product Name: ASUS Phone (Mobile Phone)

Brand Name: ASUS

Model No.: ASUS_AI2302

Report Number: TERF2305001083ER

FCC ID MSQAI2302

Date of EUT Received: April 24, 2023

Date of Test: May 03, 2023~July 13, 2023

Issue Date: July 17, 2023

Approved By _____

Blue Yang

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2305001083ER	00	Original	July 17, 2023	Violetta Tang	

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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Contents

1	GENERAL INFORMATION	4
2	SUMMARY OF TEST RESULT	8
3	MEASUREMENT UNCERTAINTY	9
4	TPC and DFS MEASUREMENT	10
5	Test Setup.....	16
6	Test Equipment Used:	17
7	Description of EUT:.....	18
8	Test results.....	19
9	Channel Puncturing.....	24

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_AI2302
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	R4AIB7N004712UM
Power Supply:	3.89 Vdc from Battery or 5 / 9 / 12 / 15 / 20 Vdc from AC Adapter
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 802.11ac 256QAM, 1024QAM for OFDMA in 802.11ax 256QAM, 1024QAM, 4096QAM for OFDMA in 802.11be

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1.2 DFS Firmware version:



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1.3 RF specification

Wi-Fi 802.11	Frequency Range	Channels	Modulation Technology
a / n_HT ac_VHT / ax_HE/ be_EHT 20M	5150~5250	4	OFDM / OFDMA
	5250~5350	4	
	5470~5725	12	
	5725~5850	5	
n_HT ac_VHT / ax_HE/ be_EHT 40M	5150~5250	2	OFDM / OFDMA
	5250~5350	2	
	5470~5725	6	
	5725~5850	2	
ac_VHT / ax_HE/ be_EHT 80M	5150~5250	1	OFDM / OFDMA
	5250~5350	1	
	5470~5725	3	
	5725~5850	1	
ac_VHT / ax_HE/ be_EHT 160M	5150~5350	1	OFDM / OFDMA
	5470~5725	1	

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1.4 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules v01r02

1.5 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
	Conducted 6			
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
Conducted F				
Conducted G				

Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

1.6 Special Accessories

There are no special accessories used while test was conducted.

1.7 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SUMMARY OF TEST RESULT

FCC Rules	Description Of Test	Result
§15.407(h)	TPC and DFS Measurement	Compliant

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3 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
TPC and DFS Measurement	+/- 1.04 Hz
Temperature	+/- 0.7 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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4 TPC AND DFS MEASUREMENT

4.1 TPC Requirements

According to Part 15.407 (h)(1) Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

Result: N/A, TPC is not required.

4.2 DFS: Standard Applicable

According to §15.407(h)(2) and FCC KDB 905462 D02 , Radar Detection Function of Dynamic Frequency Selection (DFS).

Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems. Operators shall only use equipment with a DFS mechanism that is turned on when operating in these bands. The device must sense for radar signals at 100 percent of its emission bandwidth. The minimum DFS detection threshold for devices with a maximum e.i.r.p. of 200 mW to 1 W is -64 dBm. For devices that operate with less than 200 mW e.i.r.p. and a power spectral density of less than 10 dBm in a 1 MHz band, the minimum detection threshold is -62 dBm. The detection threshold is the received power averaged over 1 microsecond referenced to a 0 dBi antenna. For the initial channel setting, the manufacturers shall be permitted to provide for either random channel selection or manual channel selection.

- (i) Operational Modes. The DFS requirement applies to the following operational modes:
 - (a) The requirement for channel availability check time applies in the master operational mode.
 - (b) The requirement for channel move time applies in both the master and slave operational modes.
- (ii) Channel Availability Check Time. A U-NII device shall check if there is a radar system already operating on the channel before it can initiate a transmission on a channel and when it has to move to a new channel. The U-NII device may start using the channel if no radar signal with a power level greater than the interference threshold values listed in paragraph (h)(2) of this section, is detected within 60 seconds.

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- (iii) Channel Move Time. After a radar's presence is detected, all transmissions shall cease on the operating channel within 10 seconds. Transmissions during this period shall consist of normal traffic for a maximum of 200 ms after detection of the radar signal. In addition, intermittent management and control signals can be sent during the remaining time to facilitate vacating the operating channel.
- (iv) Non-occupancy Period. A channel that has been flagged as containing a radar system, either by a channel availability check or in-service monitoring, is subject to a non-occupancy period of at least 30 minutes. The non-occupancy period starts at the time when the radar system is detected.

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4.3 Limit

Table 1: Applicability of DFS requirements prior to use of a channel

Requirement	Operational Mode		
	Master	Client(without radar detection)	Client(with radar detection)
Non-occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	Master Device or Client with Radar Detection	Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission time	Yes	Yes
Channel Move time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

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Additional requirements for devices with multiple bandwidth mode	Master Device or Client with Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
<p>Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.</p>		

Table 3: Interference Threshold values, Master or Client incorporating In-Service Monitoring

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
<p>Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.</p>	

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Table 4: DFS Response requirement values

Parameter	Value
<i>Non-occupancy period</i>	Minimum 30 minutes
<i>Channel Availability Check Time</i>	60 seconds
<i>Channel Move Time</i>	10 seconds See Note 1.
<i>Channel Closing Transmission Time</i>	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
<i>U-NII Detection Bandwidth</i>	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
<p>Note 1: <i>Channel Move Time</i> and the <i>Channel Closing Transmission Time</i> should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.</p> <p>Note 2: The <i>Channel Closing Transmission Time</i> is comprised of 200 milliseconds starting at the beginning of the <i>Channel Move Time</i> plus any additional intermittent control signals required to facilitate a <i>Channel move</i> (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.</p> <p>Note 3: During the <i>U-NII Detection Bandwidth</i> detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.</p>	

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Table 5: Radar Test Waveforms
Short Pulse Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a	Roundup $\left\{ \begin{array}{l} \left(\frac{1}{360} \right) \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu\text{sec}}} \right) \end{array} \right\}$	60%	30
		Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120
Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.					

Long Pulse Radar

Radar Type	Pulse Width (μsec)	Chirp Width (MHz)	PRI (μsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Frequency Hopping Radar

Radar Type	Pulse Width (μsec)	PRI (μsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30

The applicant of this given application confirms that information regarding the parameters of the detected Radar Waveforms is not available to the end user.

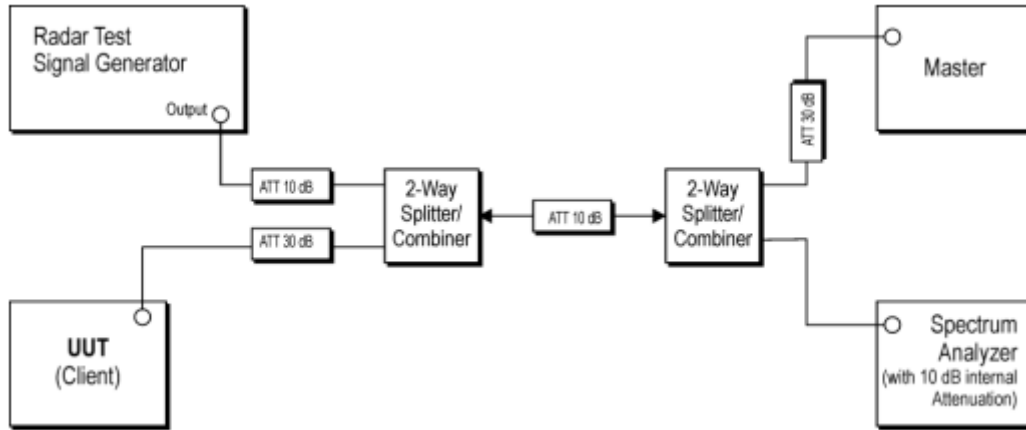
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5 TEST SETUP

Setup for Client with injection at the Master



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6 TEST EQUIPMENT USED:

Conducted Emission Test Site: Conducted 6					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/13/2022	12/12/2023
Signal Generator	KEYSIGHT	N5182B	MY61252553	09/22/2022	09/21/2023
Test Software	KEYSIGHT	N7607B Signal Stdio for DFS Radar profile	Ver. 3.2.0.0	N.C.R	N.C.R
DC Block	Mini-Circuits	BLK-18-S+	1	12/13/2022	12/12/2023
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/13/2022	12/12/2023
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/13/2022	12/12/2023
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-020	12/13/2022	12/12/2023
Power Divider	RF-LAMBDA	RFLT4W1G18G	16080500174	12/13/2022	12/12/2023
Attenuator	Agilent	8495B	3308A22470	12/13/2022	12/12/2023
Attenuator	HP	8494B	2812A17605	12/13/2022	12/12/2023
Notebook	Lenovo	T470	PF-0XLQGV	N/A	N/A
Notebook	Lenovo	T440P	PB-02Y6RK	N/A	N/A
Access Point	Qualcomm	RDP433	Qualcomm-AP-1	N/A	N/A

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7 DESCRIPTION OF EUT:

EUT operates over the 5250-5350MHz and 5470-5725MHz ranges and EUT is a slave device (client equipment) w/o radar detection and DFS capability.

WLAN traffic is generated by streaming the mpeg file from the master to slave in full monitor video mode using the media player.

The rated output power of the master unit is $\geq 23\text{dBm}$ (EIRP).therefore the required interference threshold level is -64dBm .after correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64dBm .

The rated output power of the master unit is $<23\text{ dBm}$ (EIRP).therefore the required interference threshold level is -62dBm .after correction for antenna gain and procedural adjustments, the required threshold at the antenna port is -62dBm .

While calibrate the path on antenna port of DFS test equipment (master), measurements equipment (spectrum) is ensured to be 50 Ohms, and therefore verification on antenna gain measurement can be ignored.

Message or files that is used for communication between Master and Client:

IP based system:

For the required channel loading, send packets via software to reach a pay load of at least 17%, via the DFS Master device to the UE.

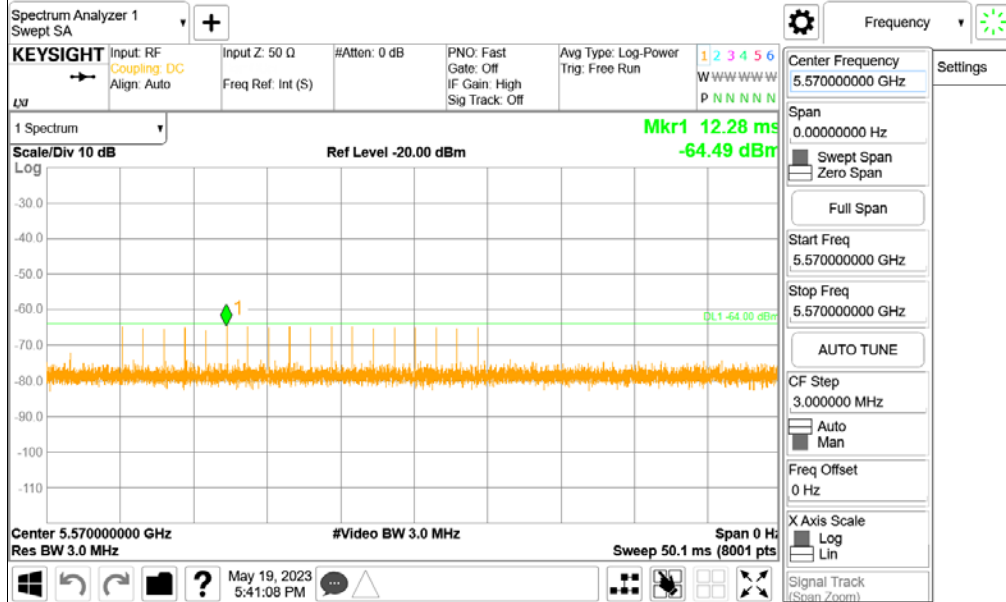
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8 TEST RESULTS

8.1 Radar waveforms

Radar type 0



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8.2 WLAN traffic



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8.3 Channel closing transmission and Move time

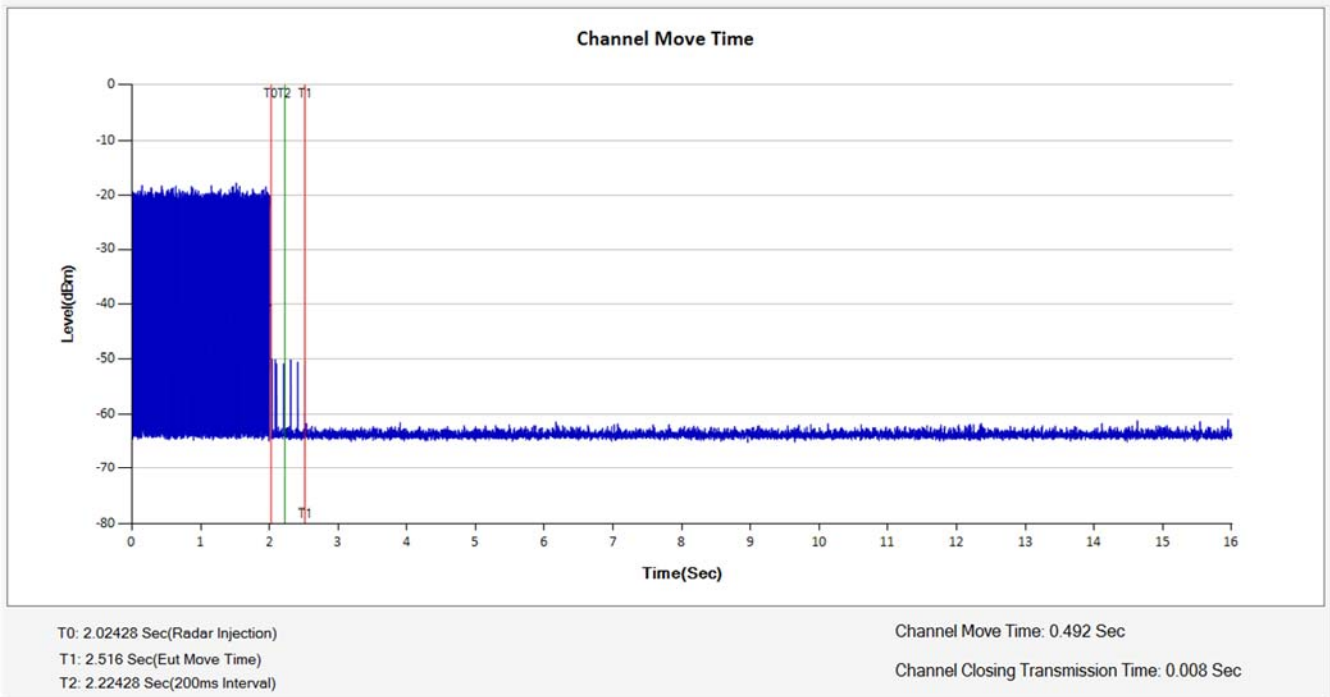
Channel Shutdown Result				
Detection Threshold Level (dBm)			-64	
Modulation Mode	Freq. (MHz)	Radar Test Signal	Channel Closing Transmission Time(ms) 200ms~10sec	Channel Move Time(s)
EHT160	5570	Type 0	8	0.492
Limit			60	ms
Result			Complied	

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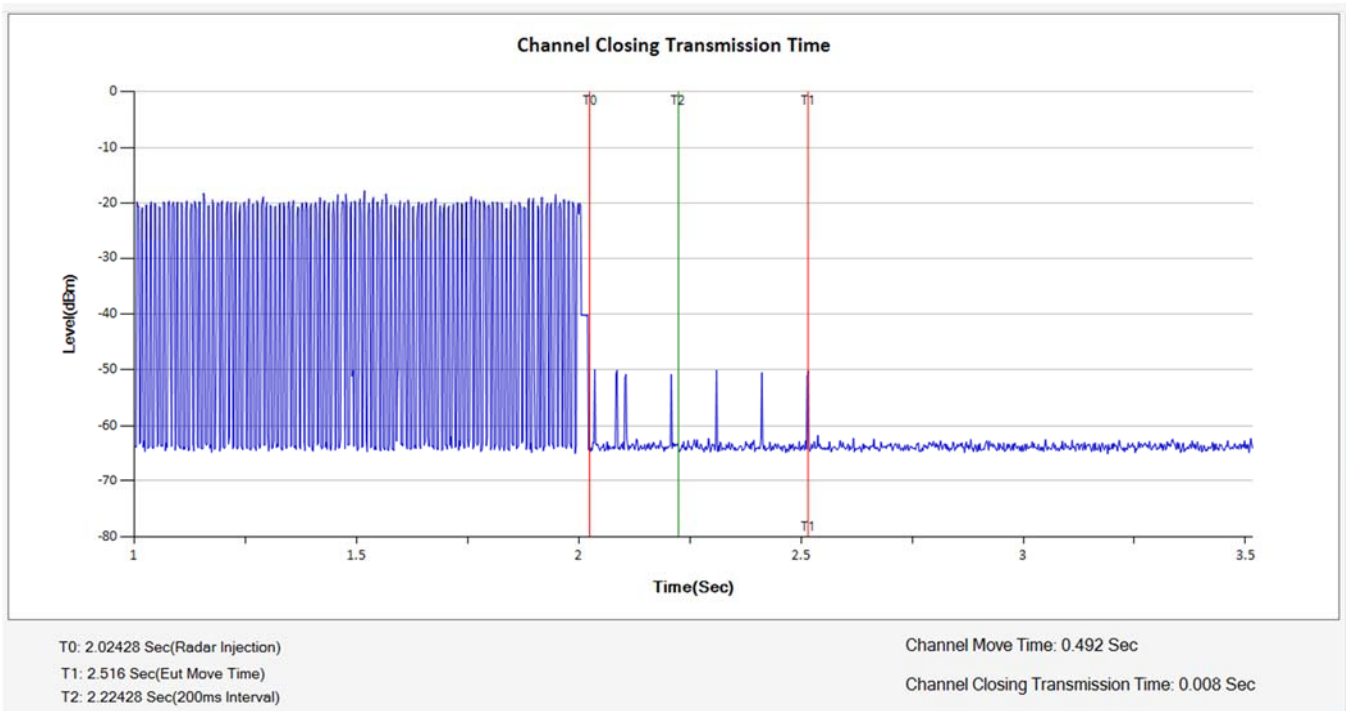
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Channel Move and Closing Transmission Time - 1



Channel Move and Closing Transmission Time - 2



Verdict: Note: narrowing the sweep time as the good engineering process for the verification of transmission closing in 200ms

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Non-occupancy Period (without radar detection)



Verdict: To verify whether channel is unavailable to be operated in 30 minutes.

$$1.8ks = 1800s = 1800 \text{ s/min} / 60 = 30\text{minute}$$

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9 CHANNEL PUNCTURING

9.1 Channel puncturing for DFS test cases

1. Check 99% OBW for puncturing combination and confirm the non-puncturing is not over to punctured frequency
2. Check the puncturing channel is should meet -27 dBm/MHz EIRP on the FTM mode

9.2 Test results:

802.11be EHT80 MODE					
Freq. (MHz)	RU config.	Antenna	OCB (MHz)	FL (MHz)	FH (MHz)
5290	SU_Punct20_Mid1_484	Ch0	37.951	5261.017	5298.9689
	SU_Punct20_Mid1_242		18.782	5280.9677	5299.7492
	SU_Punct20_Mid1_484	Ch1	37.838	5261.118	5298.9565
	SU_Punct20_Mid1_242		18.756	5280.9966	5299.7528
5530	SU_Punct20_Mid2_484	Ch0	37.952	5511.086	5549.038
	SU_Punct20_Mid2_242		18.784	5520.2696	5539.0537
	SU_Punct20_Mid2_484	Ch1	37.926	5511.14	5549.066
	SU_Punct20_Mid2_242		18.809	5520.2606	5539.0697

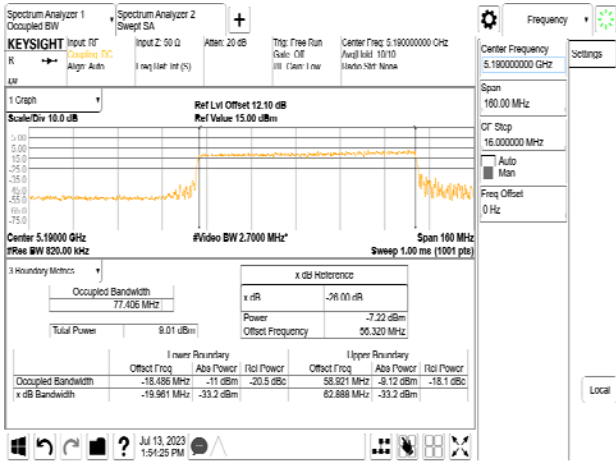
802.11be EHT160 MODE					
Freq. (MHz)	RU config.	Antenna	OCB (MHz)	FL (MHz)	FH (MHz)
5250	SU_Punct40_Mid2_996	Ch0	77.406	5271.514	5348.921
	SU_Punct40_Mid2_484		37.940	5271.001	5308.941
	SU_Punct40_Mid2_996	Ch1	77.505	5271.442	5348.947
	SU_Punct40_Mid2_484		37.883	5271.037	5308.92
	SU_Punct20_High_966+484+242	Ch0	136.94	5211.829	5348.772
		Ch1	136.88	5212.008	5348.888
5570	SU_Punct40_Mid2_996	Ch0	77.496	5511.458	5588.954
	SU_Punct40_Mid2_484		37.958	5511.017	5548.975
	SU_Punct40_Mid2_996	Ch1	77.453	5511.467	5588.92
	SU_Punct40_Mid2_484		37.886	5511.044	5548.93
	SU_Punct20_High_966+484+242	Ch0	137.25	5451.629	5588.881
		Ch1	137.04	5451.927	5588.967

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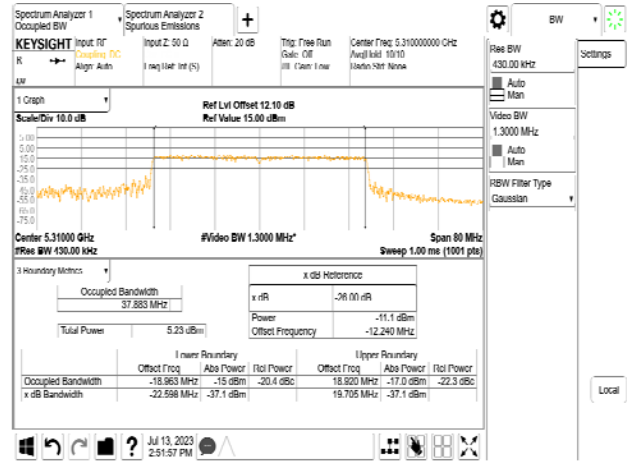
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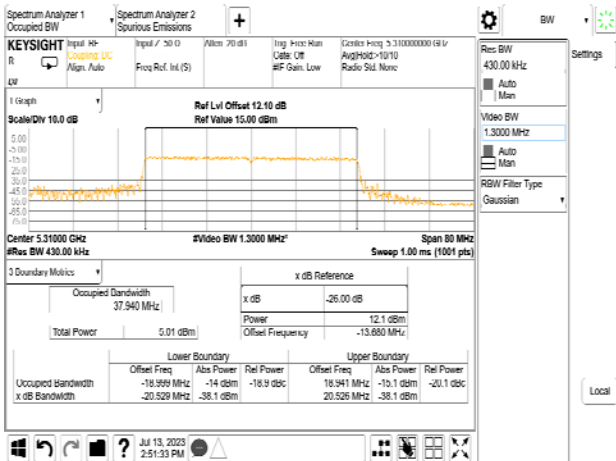
5250_1. MIMO_5250MHZ_160M_SU_Punct40_Mid2_996_Ch0



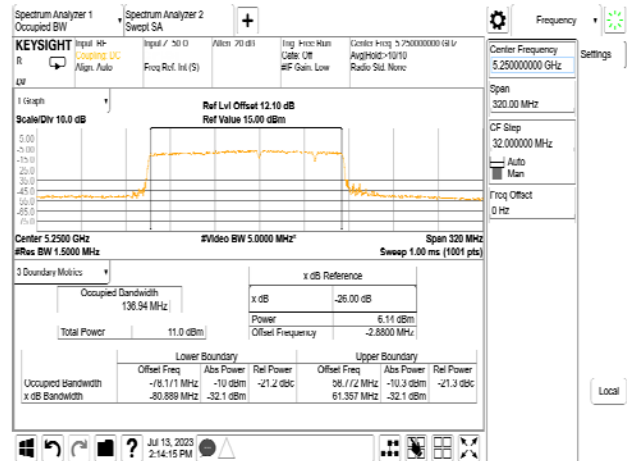
5250_4. MIMO_5250MHZ_160M_SU_Punct40_Mid2_484_Ch1



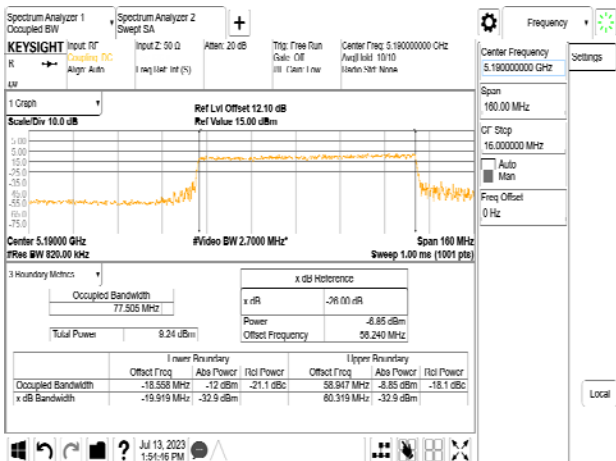
5250_2. MIMO_5250MHZ_160M_SU_Punct40_Mid2_484_Ch0



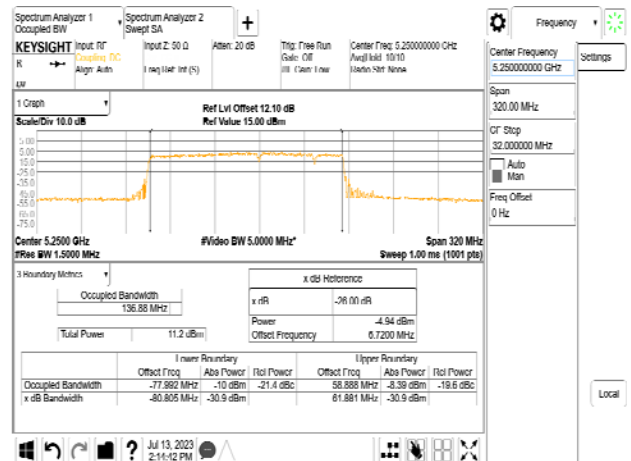
5250_5. MIMO_5250MHZ_160M_SU_Punct20_High_996+484+242_Ch0



5250_3. MIMO_5250MHZ_160M_SU_Punct40_Mid2_996_Ch1



5250_6. MIMO_5250MHZ_160M_SU_Punct20_High_996+484+242_Ch1

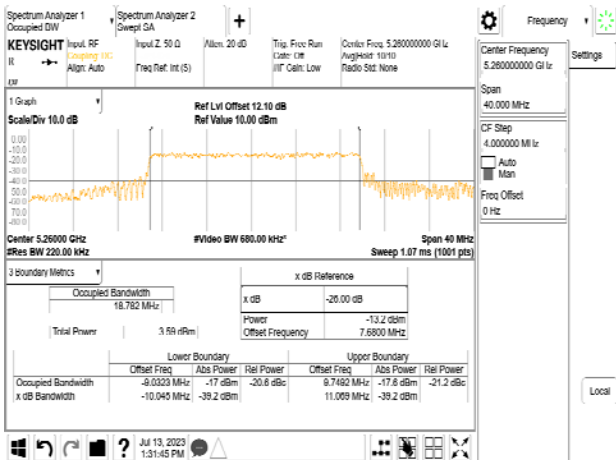


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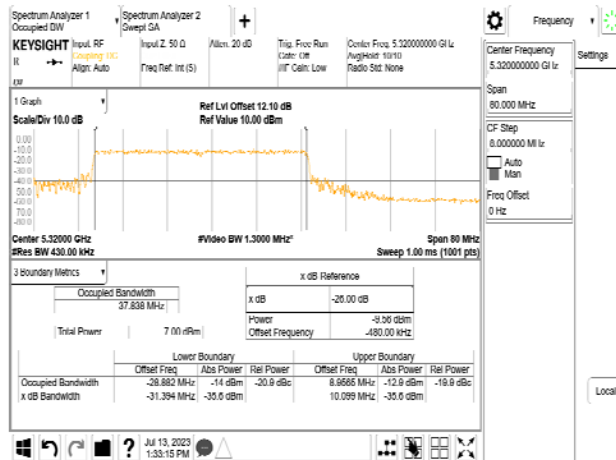
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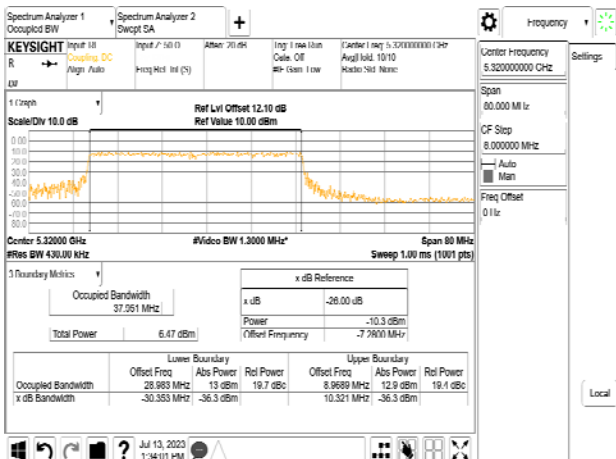
5290_1. MIMO_5290MHZ_80M_SU_Punct20_Mid1_242_Ch0



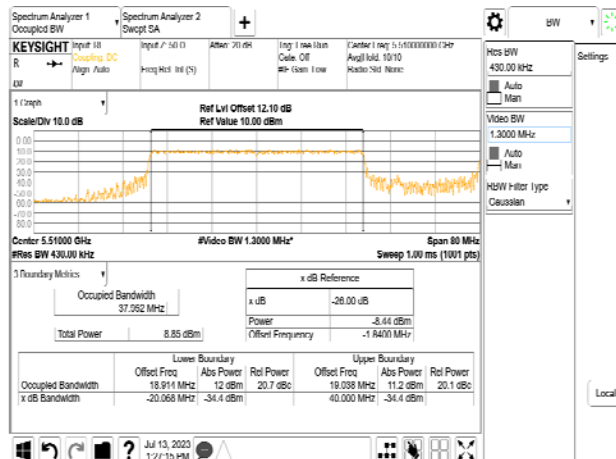
5290_4. MIMO_5290MHZ_80M_SU_Punct20_Mid1_484_Ch1



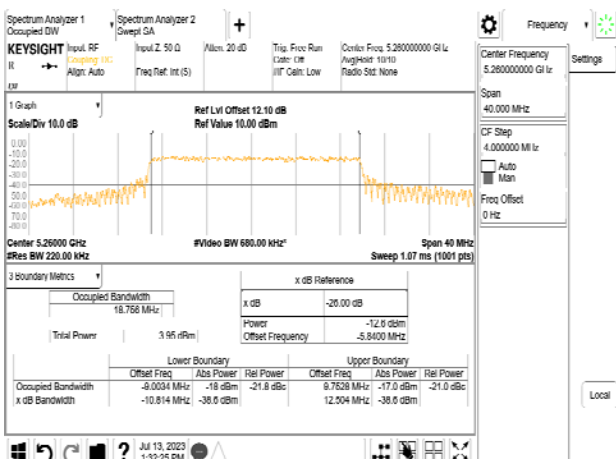
5290_2. MIMO_5290MHZ_80M_SU_Punct20_Mid1_484_Ch0



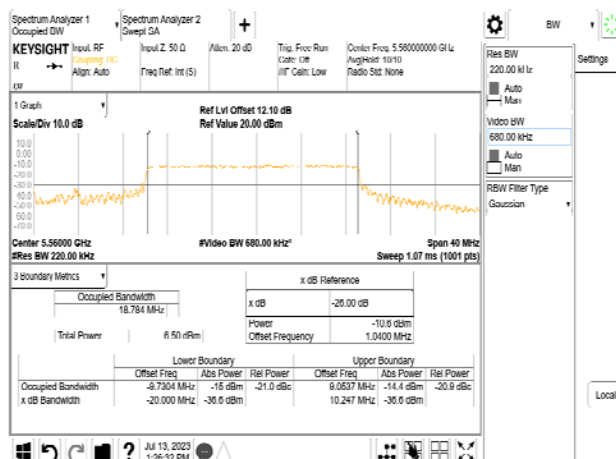
5530_1. MIMO_5530MHZ_80M_SU_Punct20_Mid2_484_Ch0



5290_3. MIMO_5290MHZ_80M_SU_Punct20_Mid1_242_Ch1



5530_2. MIMO_5530MHZ_80M_SU_Punct20_Mid2_242_Ch0

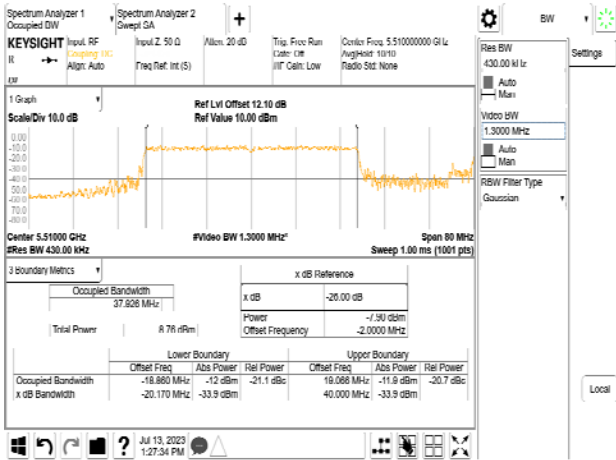


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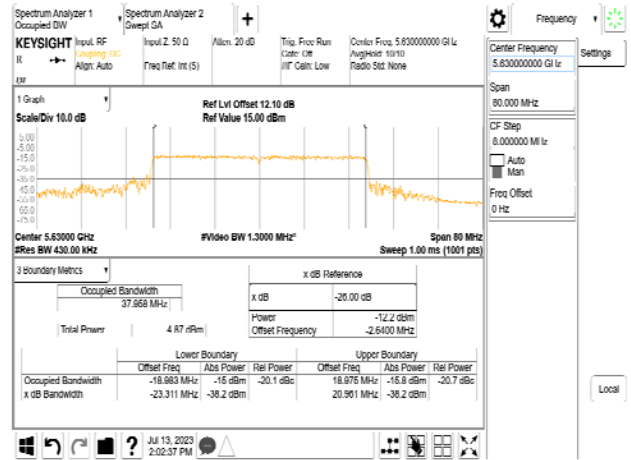
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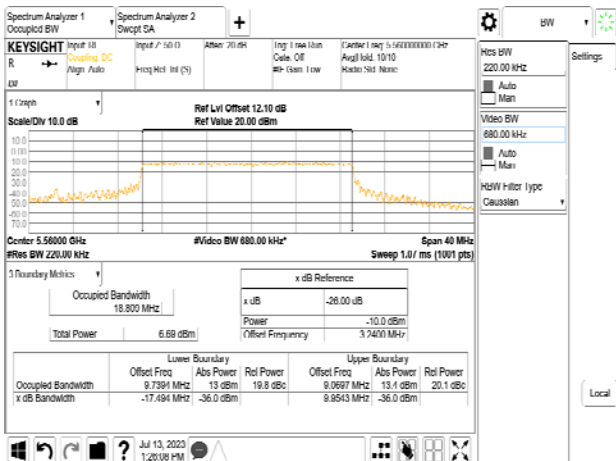
5530_3. MIMO_5530MHZ_80M_SU_Punct20_Mid2_484_Ch1



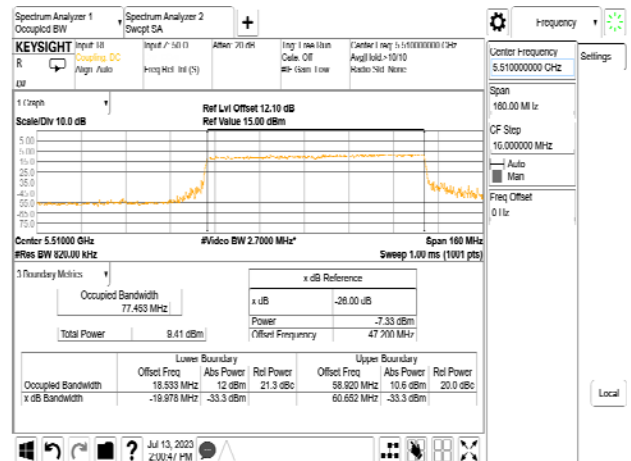
5570_2. MIMO_5570MHZ_160M_SU_Punct40_Mid2_484_Ch0



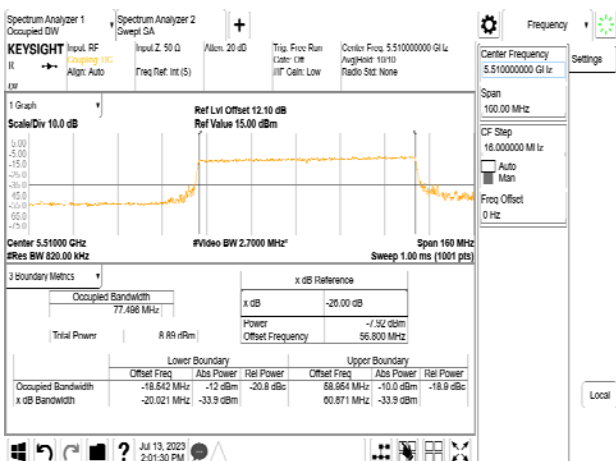
5530_4. MIMO_5530MHZ_80M_SU_Punct20_Mid2_242_Ch1



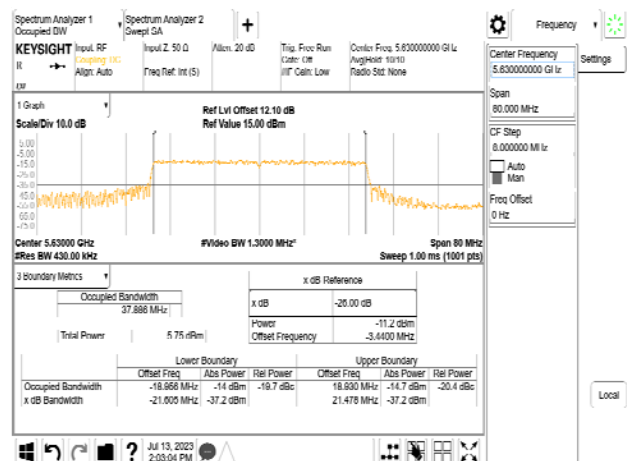
5570_3. MIMO_5570MHZ_160M_SU_Punct40_Mid2_996_Ch1



5570_1. MIMO_5570MHZ_160M_SU_Punct40_Mid2_996_Ch0



5570_4. MIMO_5570MHZ_160M_SU_Punct40_Mid2_484_Ch1

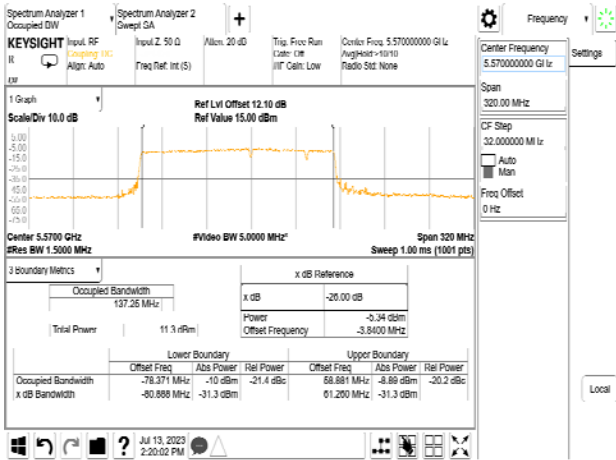


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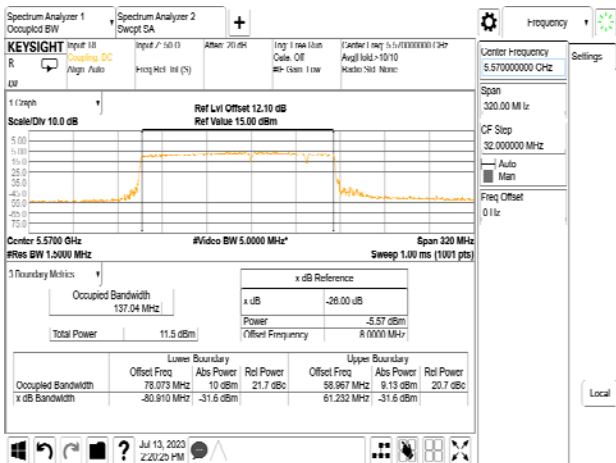
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5570_5. MIMO_5570MHZ_160M_SU_Punct20_High_996+484+242_Ch0



5570_6. MIMO_5570MHZ_160M_SU_Punct20_High_996+484+242_Ch1



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802.11be EHT80-20M					
Freq. (MHz)	RU config.	CH 0 EIRP	CH 1 EIRP	Total EIRP	Limit (dBm/MHz)
5280	SU_Punct20_Mid1	-42.398	-43.157	-39.751	-27
5540	SU_Punct20_Mid2	-36.543	-38.376	-34.353	-27

802.11be EHT160-20M					
Freq. (MHz)	RU config.	CH 0 EIRP	CH 1 EIRP	Total EIRP	Limit (dBm/MHz)
5320	SU_Punct20_High	-48.115	-48.148	-45.121	-27
5640	SU_Punct20_High	-48.184	-48.031	-45.097	-27

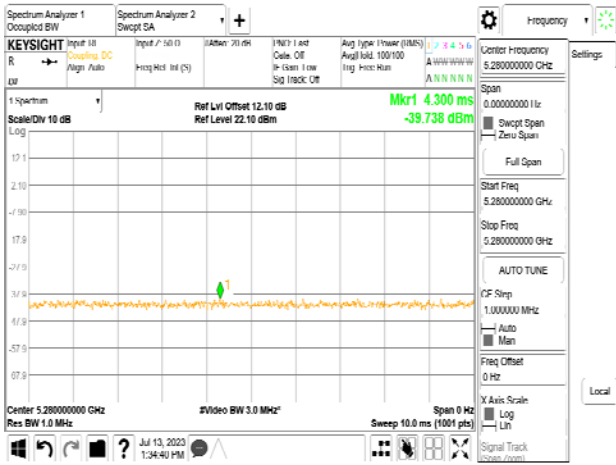
802.11be EHT160-40M					
Freq. (MHz)	RU config.	CH 0 EIRP	CH 1 EIRP	Total EIRP	Limit (dBm/MHz)
5270	SU_Punct40_Mid2	-45.393	-47.731	-43.396	-27
5590	SU_Punct40_Mid2	-45.97	-46.887	-43.394	-27

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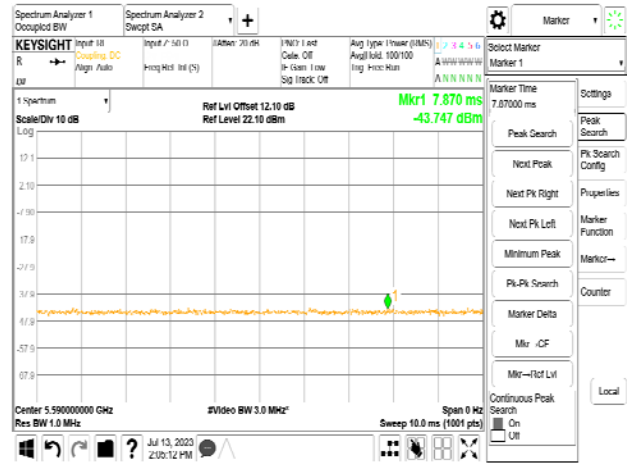
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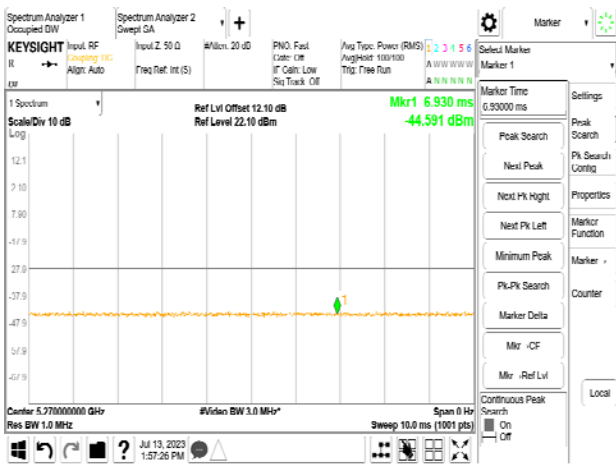
1. MIMO_5290MHZ_80M_SU_Punct20_Mid1_(5280MHZ)_Ch0



12. MIMO_5570MHZ_160M_SU_Punct40_Mid2_(5590MHZ)_Ch1



10. MIMO_5250MHZ_160M_SU_Punct40_Mid2_(5270MHZ)_Ch1



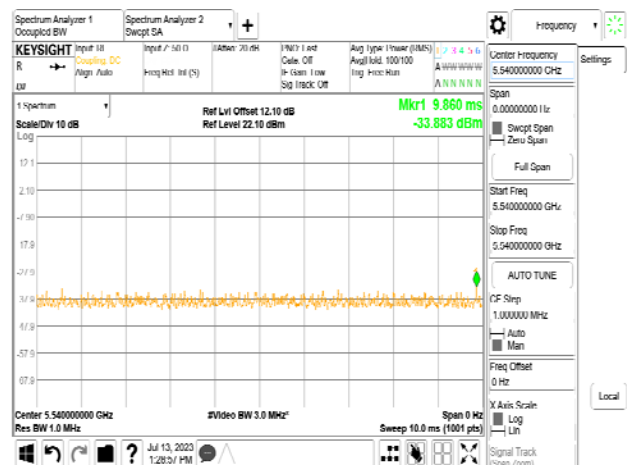
2. MIMO_5290MHZ_80M_SU_Punct20_Mid1_(5280MHZ)_Ch1



11. MIMO_5570MHZ_160M_SU_Punct40_Mid2_(5590MHZ)_Ch0



3. MIMO_5530MHZ_80M_SU_Punct20_Mid2_(5540MHZ)_Ch0

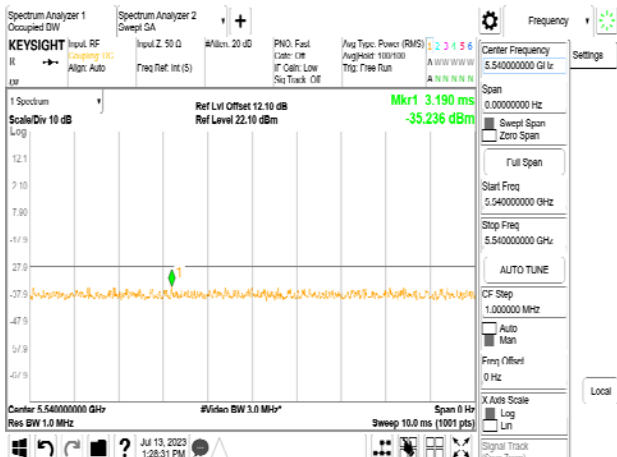


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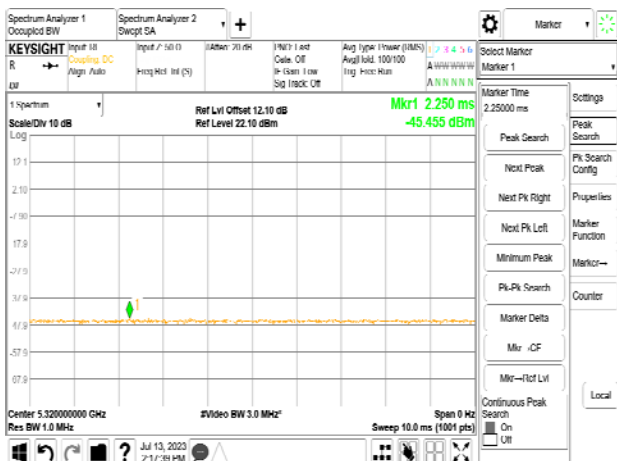
4. MIMO_5530MHZ_80M_SU_Punct20_Mid2_(5540MHZ)_Ch1



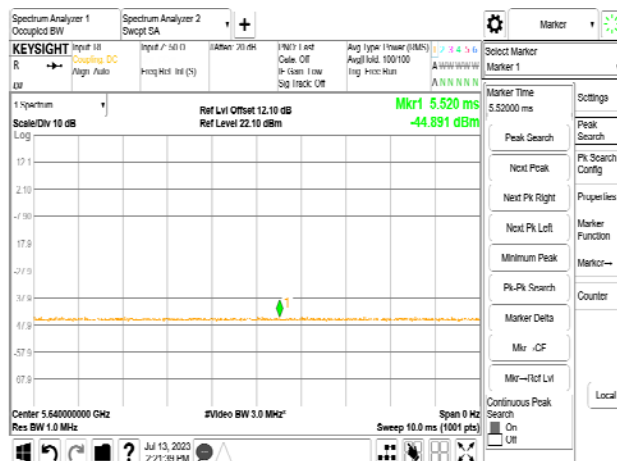
7. MIMO_5570MHZ_160M_SU_Punct20_High_(5640MHZ)_Ch0



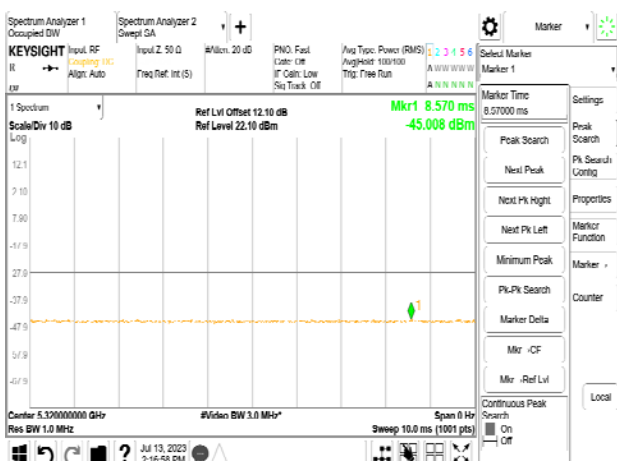
5. MIMO_5250MHZ_160M_SU_Punct20_High_(5320MHZ)_Ch0



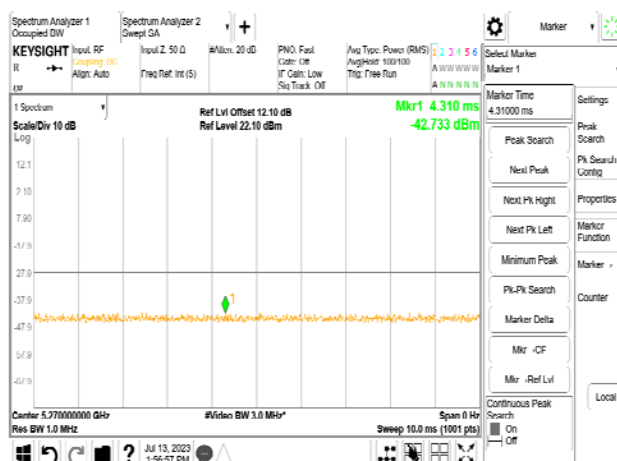
8. MIMO_5570MHZ_160M_SU_Punct20_High_(5640MHZ)_Ch1



6. MIMO_5250MHZ_160M_SU_Punct20_High_(5320MHZ)_Ch1



9. MIMO_5250MHZ_160M_SU_Punct40_Mid2_(5270MHZ)_Ch0



~ End of Report ~

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