



FCC RADIO TEST REPORT

FCC ID : A4RG1AZG
Equipment : Phone
Model Name : G1AZG
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, California, 94043 USA
Standard : FCC Part 15 Subpart E §15.407

The product was received on Nov. 10, 2021 and testing was performed on Mar. 07, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR161608-04A	01	Initial issue of report	Mar. 08, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(d)(6)	Contention Based Protocol	Pass	-

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

Comments and Explanations:
The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.
This is a partial report for 6XD CBP test only, other test items has been evaluated in the data reuse test report.

Reviewed by: William Chen
Report Producer: Dara Chiu



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Phone
Model Name	G1AZG
FCC ID	A4RG1AZG
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

Remark: The above EUT's information was declared by manufacturer.

EUT Information List	
S/N	Performed Test Item
1A261FQGR00067	Contention Based Protocol

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	5925 MHz ~ 6425 MHz 6425 MHz ~ 6525 MHz 6525 MHz ~ 6875 MHz 6875 MHz ~ 7125 MHz
Antenna Type	<5925 MHz ~ 6425 MHz> <Ant. 4>: IFA Antenna <Ant. 3>: IFA Antenna <6425 MHz ~ 6525 MHz> <Ant. 4>: IFA Antenna <Ant. 3>: IFA Antenna <6525 MHz ~ 6875 MHz> <Ant. 4>: IFA Antenna <Ant. 3>: IFA Antenna <6875 MHz ~ 7125 MHz> <Ant. 4>: IFA Antenna <Ant. 3>: IFA Antenna

Product Specification is subject to this standard							
Antenna Gain	<5925 MHz ~ 6425 MHz> <Ant. 4>: -0.90 dBi <Ant. 3>: -0.90 dBi <6425 MHz ~ 6525 MHz> <Ant. 4>: -3.00 dBi <Ant. 3>: -1.30 dBi <6525 MHz ~ 6875 MHz> <Ant. 4>: -3.60 dBi <Ant. 3>: -1.50 dBi <6875 MHz ~ 7125 MHz> <Ant. 4>: -5.00 dBi <Ant. 3>: -1.20 dBi						
Type of Modulation	802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)						
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 4</th> <th>Ant. 3</th> </tr> </thead> <tbody> <tr> <td>802.11ax MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 4	Ant. 3	802.11ax MIMO	V	V
	Ant. 4	Ant. 3					
802.11ax MIMO	V	V					

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications made to the EUT during the testing.



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. DF02-HY

FCC designation No.: TW1190

1.5 Applicable Standards

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

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.



2 Test Configuration of Equipment under Test

2.1 Carrier Frequency and Channel

BW 20M	Channel	1	5	9	13	17	21	25	29
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	Channel	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	Channel	15							
	Freq. (MHz)	6025							
BW 20M	Channel	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	Channel	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	Channel	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	Channel	47							
	Freq. (MHz)	6185							



BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	97	101	105	109	113	117	121	125
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
BW 40M	Channel	99		107		115		123	
	Freq. (MHz)	6445		6485		6525		6565	
BW 80M	Channel	103				119			
	Freq. (MHz)	6465				6545			
BW 160M	Channel	111							
	Freq. (MHz)	6505							

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181	185	189
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895
BW 40M	Channel	163		171		179		187	
	Freq. (MHz)	6765		6805		6845		6885	
BW 80M	Channel	167				183			
	Freq. (MHz)	6785				6865			
BW 160M	Channel	175							
	Freq. (MHz)	6825							



BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	195		203		211		219	
	Freq. (MHz)	6925		6965		7005		7045	
BW 80M	Channel	199				215			
	Freq. (MHz)	6945				7025			
BW 160M	Channel	207							
	Freq. (MHz)	6985							
BW 20M	Channel	225				229			
	Freq. (MHz)	7075				7095			
BW 40M	Channel	227							
	Freq. (MHz)	7085							



3 Test Result

3.1 Contention Based Protocol

3.1.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

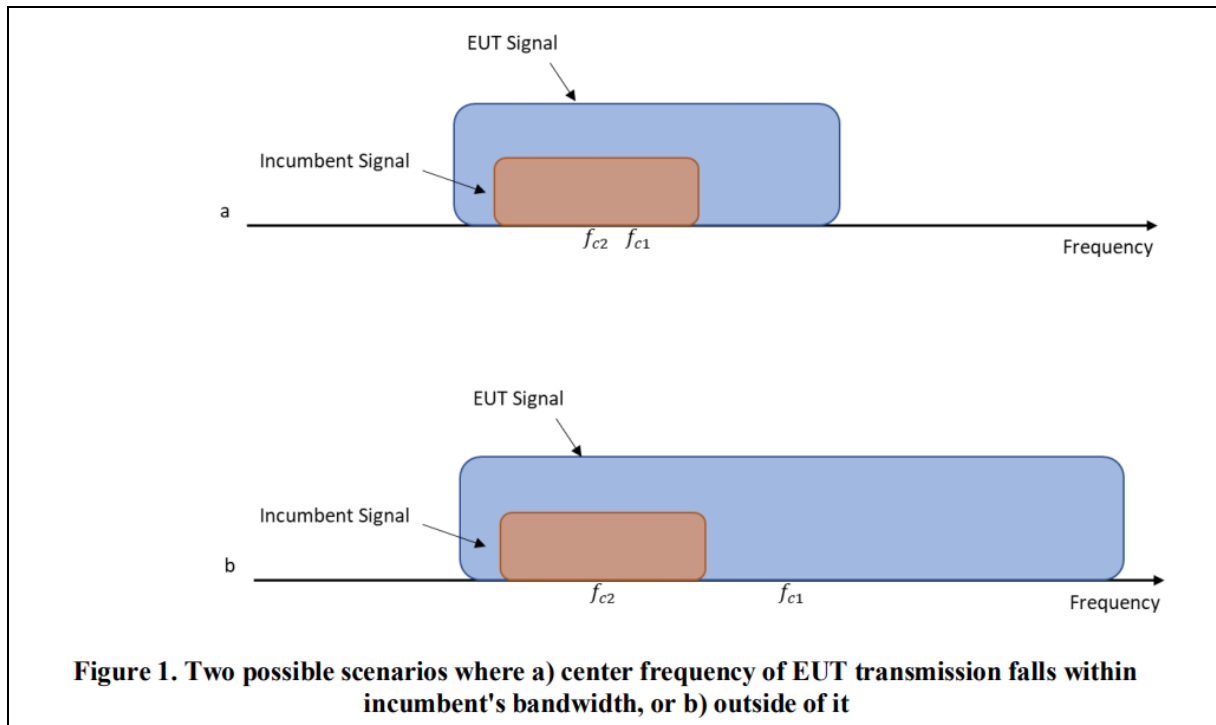
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

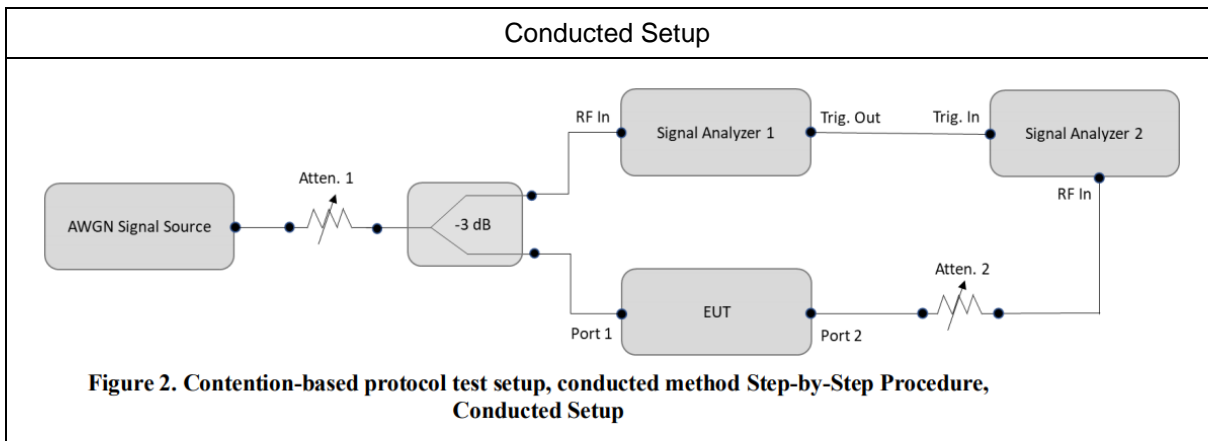
Section I) Contention Based Protocol

Conducted method Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT as shown in test setup Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

9. Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
10. (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
11. Refer to Table 1 to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step 5, choose a different center frequency for the AWGN signal and repeat the process.
12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

3.1.4 Test Setup



3.1.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	ASUS	GT-AXE11000	Dual Band AP
Notebook	Acer	N15C1	LAN



3.1.6 Test Summary of Contention Based Protocol Test

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 5	6135	20	6135	-66.21	100	-62.9	3.31
				Result : Stop Transmission			
	6135	20	6135	-67.21	< 90	-62.9	4.31
				Result : Start Transmission			
	6185	160	6110	-67.02	100	-62.9	4.12
				Result : Stop Transmission			
			6110	-68.02	< 90	-62.9	5.12
				Result : Start Transmission			
			6185	-67.53	100	-62.9	4.63
				Result : Stop Transmission			
	6185	-68.53	< 90	-62.9	5.63		
		Result : Start Transmission					
6260	-67.3	100	-62.9	4.4			
	Result : Stop Transmission						
6260	-68.3	< 90	-62.9	5.4			
	Result : Start Transmission						

Note: Threshold Level (TL) = -62dBm + minimum antenna gain



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)		
UNII Band 6	6455	20	6455	-66.47	100	-65	1.47		
				Result : Stop Transmission					
	6455	20	6455	-67.47	< 90	-65	2.47		
				Result : Start Transmission					
	6505	160	6430	-67.56	100	-65	2.56		
				Result : Stop Transmission					
			6430	-68.56	< 90	-65	3.56		
				Result : Start Transmission					
			6505	160	6505	-68.3	100	-65	3.3
						Result : Stop Transmission			
	6505	160	6505	-69.3	< 90	-65	4.3		
				Result : Start Transmission					
6580	160	6580	-68.39	100	-65	3.39			
			Result : Stop Transmission						
6580	160	6580	-69.39	< 90	-65	4.39			
			Result : Start Transmission						

Note: Threshold Level (TL) = -62dBm + minimum antenna gain



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-67	100	-65.6	1.4
				Result : Stop Transmission			
				-68	< 90	-65.6	2.4
				Result : Start Transmission			
	6665	160	6590	-67.25	100	-65.6	1.65
				Result : Stop Transmission			
				-68.25	< 90	-65.6	2.65
				Result : Start Transmission			
			6665	-66.81	100	-65.6	1.21
				Result : Stop Transmission			
				-67.81	< 90	-65.6	2.21
				Result : Start Transmission			
6740	-66	100	-65.6	0.4			
	Result : Stop Transmission						
	-67	< 90	-65.6	1.4			
	Result : Start Transmission						

Note: Threshold Level (TL) = -62dBm + minimum antenna gain

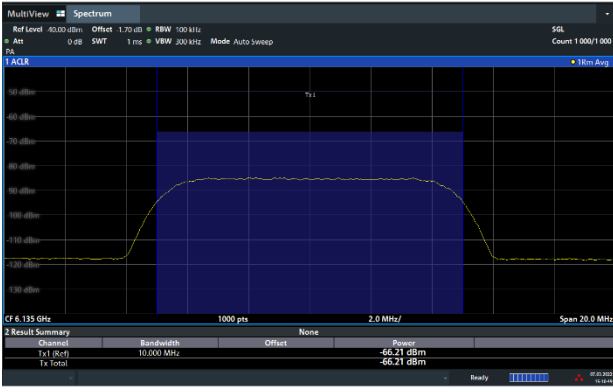
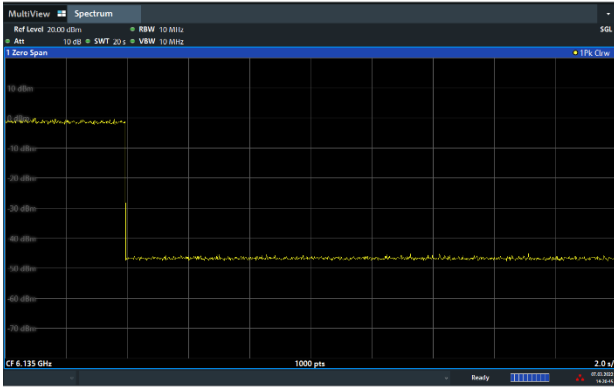

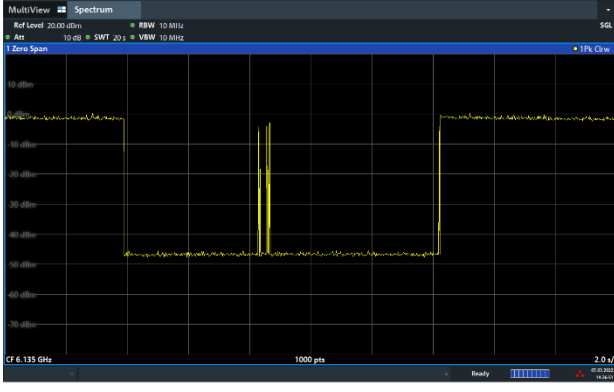


Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection level (dBm)	Detection Rate (%)	Regulated Threshold level (dBm)	Margin (dB)		
UNII Band 8	7015	20	7015	-68.39	100	-67	1.39		
				Result : Stop Transmission					
	7015	20	7015	-69.39	< 90	-67	2.39		
				Result : Start Transmission					
	6985	160	6910	-68.69	100	-67	1.69		
				Result : Stop Transmission					
				-69.69	< 90	-67	2.69		
				Result : Start Transmission					
			6985	160	6985	-69.54	100	-67	2.54
						Result : Stop Transmission			
					-70.54	< 90	-67	3.54	
					Result : Start Transmission				
7060	160	7060	-68.1	100	-67	1.1			
			Result : Stop Transmission						
7060	160	7060	-69.1	< 90	-67	2.1			
			Result : Start Transmission						

Note: Threshold Level (TL) = -62dBm + minimum antenna gain



3.1.7 Test Plots of Contention Based Protocol Test

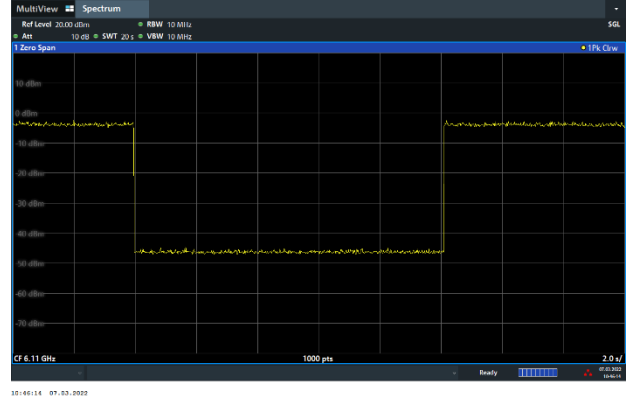
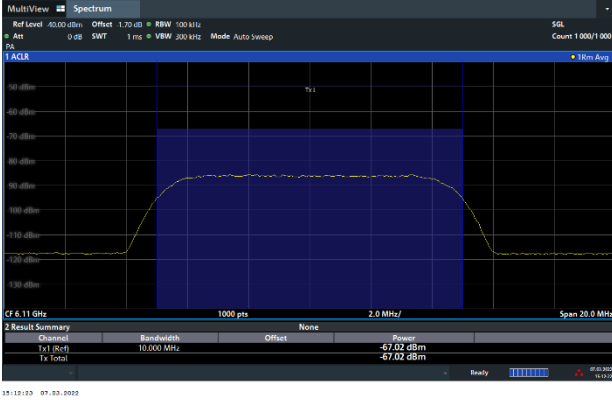
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)													
<p>802.11ax (HE20) / 6135MHz Threshold Level (TL) = -66.21dBm</p>	<p>802.11ax (HE20) / CH37 Test result is pass due to no transmission occur.</p>												
 <p>The spectrum plot shows a signal centered at 6.135 GHz with a bandwidth of 10.000 MHz. The power level is measured at -66.21 dBm, which is below the threshold level of -66.21 dBm. The plot includes a 'Result Summary' table at the bottom.</p> <table border="1"> <thead> <tr> <th>Channel</th> <th>Bandwidth</th> <th>Offset</th> <th>Power</th> </tr> </thead> <tbody> <tr> <td>Tx1 (Ref)</td> <td>10.000 MHz</td> <td></td> <td>-66.21 dBm</td> </tr> <tr> <td>Tx Total</td> <td></td> <td></td> <td>-66.21 dBm</td> </tr> </tbody> </table>	Channel	Bandwidth	Offset	Power	Tx1 (Ref)	10.000 MHz		-66.21 dBm	Tx Total			-66.21 dBm	 <p>The spectrum plot shows a flat noise floor at approximately -100 dBm across the entire frequency range, indicating no transmission occurred.</p>
Channel	Bandwidth	Offset	Power										
Tx1 (Ref)	10.000 MHz		-66.21 dBm										
Tx Total			-66.21 dBm										
<p>802.11ax (HE20) / 6135MHz Threshold Level (TL) = -67.21dBm</p>	<p>802.11ax (HE20) / CH37 Transmission occur when interferer is 1dB lower.</p>												
 <p>This area is currently blank, likely representing a placeholder for a spectrum plot that was not captured or is obscured.</p>	 <p>The spectrum plot shows two distinct transmission peaks at approximately 6.135 GHz, indicating that transmission occurred when the interferer was 1 dB lower.</p>												



Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

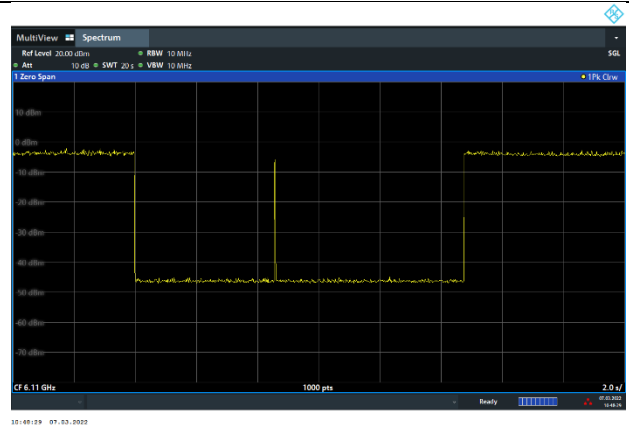
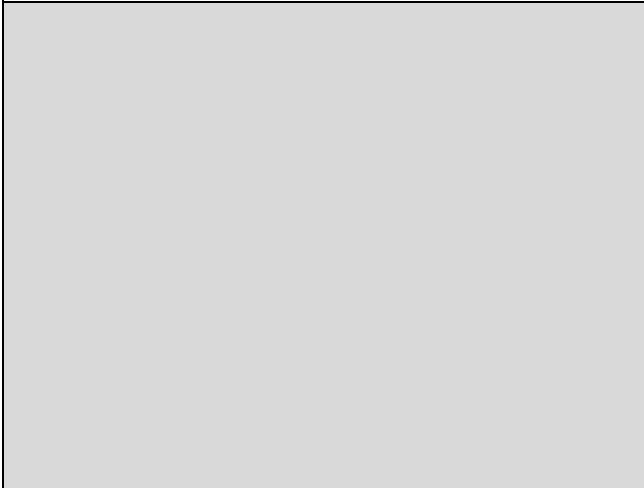
802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -67.02dBm

802.11ax (HE160) / 6110MHz (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -68.02dBm

802.11ax (HE160) / CH47 (Lower edge)
Transmission occur when interferer is 1dB lower.



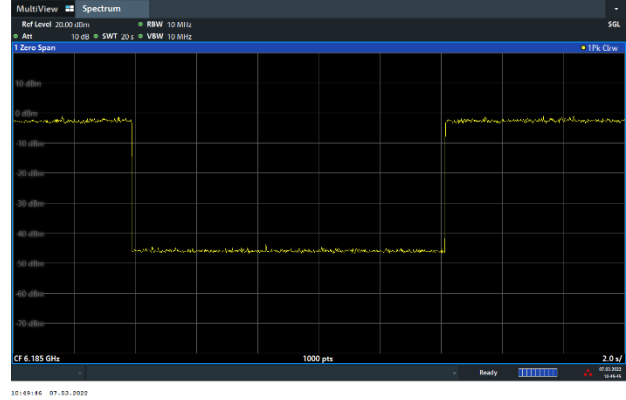
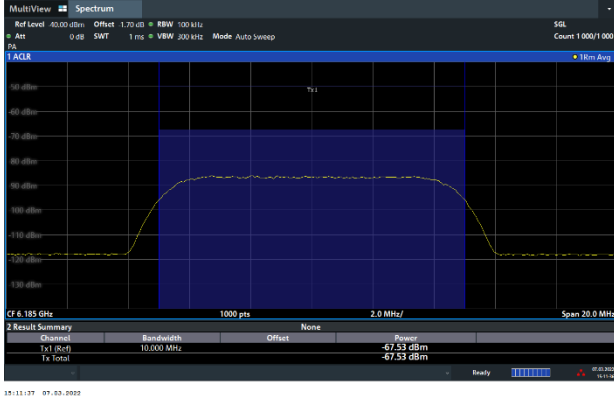


Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -67.53dBm

802.11ax (HE160) / CH47 (Middle)

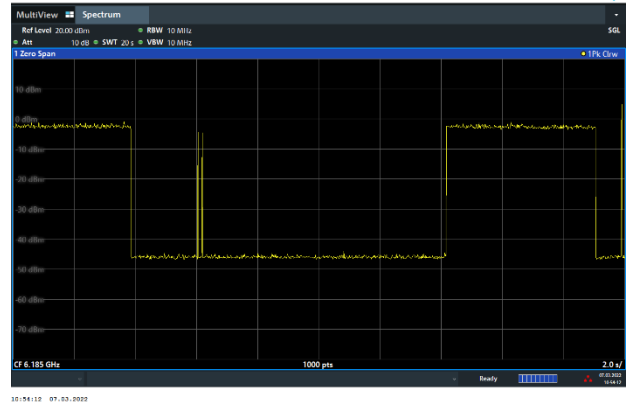
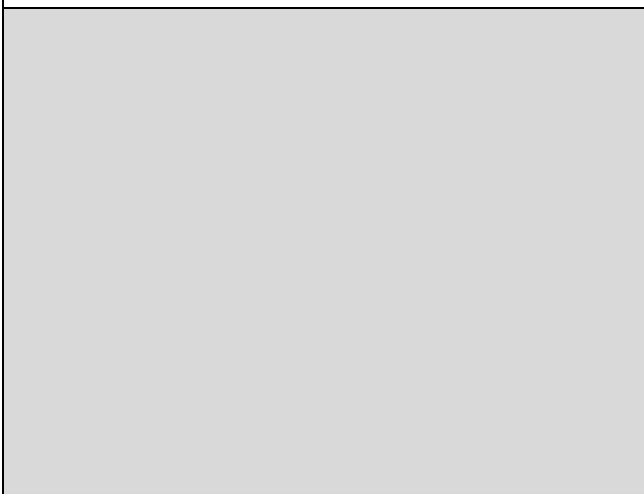
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = -68.53dBm

802.11ax (HE160) / CH47 (Middle)

Transmission occur when interferer is 1dB lower.

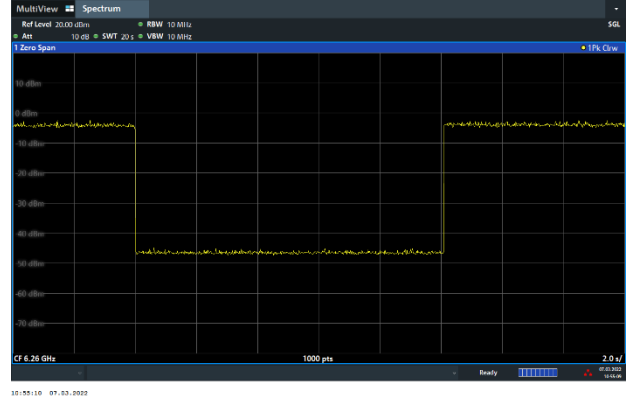
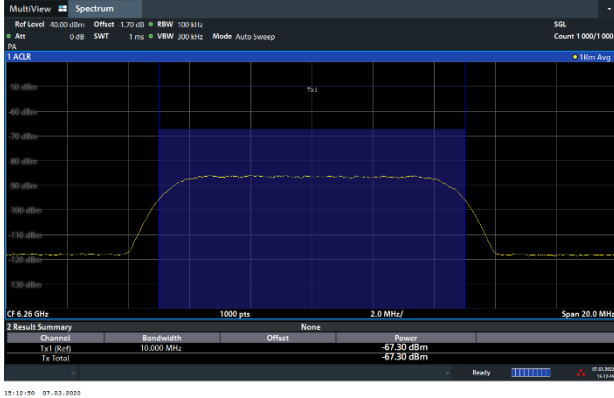




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

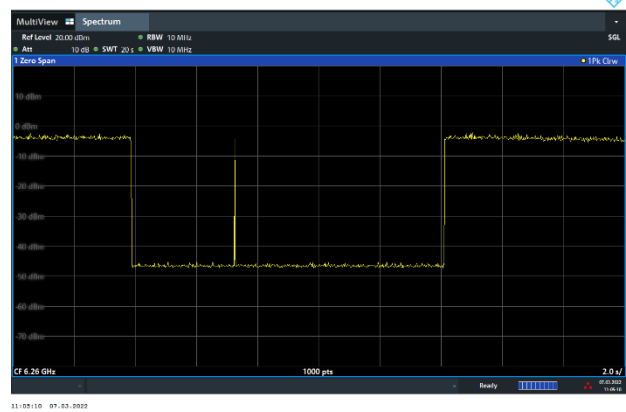
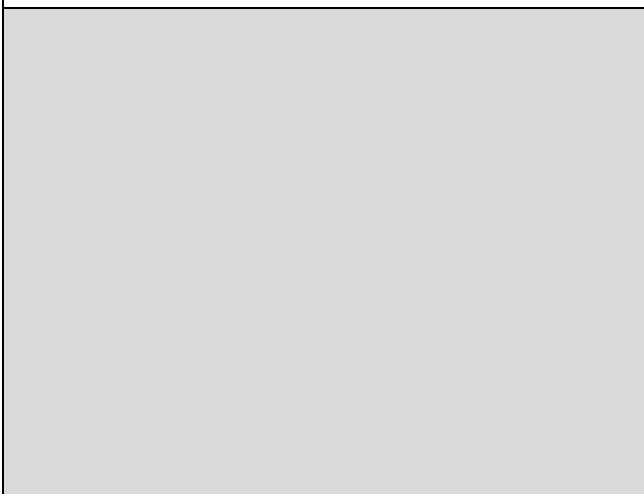
802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -67.3dBm

802.11ax (HE160) / CH47 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -68.3dBm

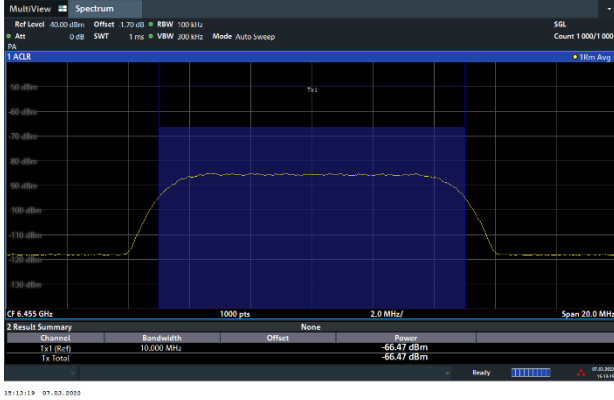
802.11ax (HE160) / CH47 (Upper edge)
Transmission occur when interferer is 1dB lower.



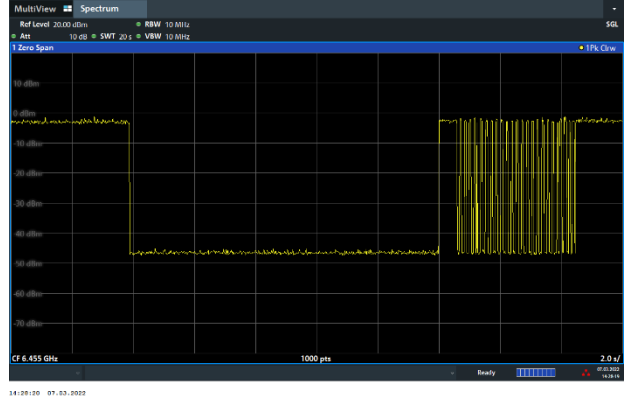


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

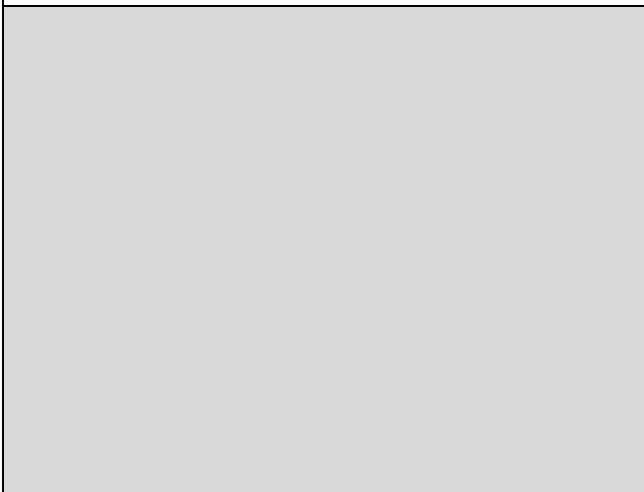
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -66.47dBm



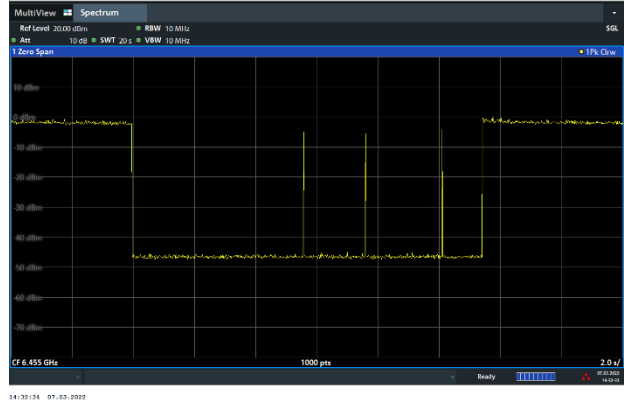
802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.



802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -67.47dBm



802.11ax (HE20) / CH101
Transmission occur when interferer is 1dB lower.

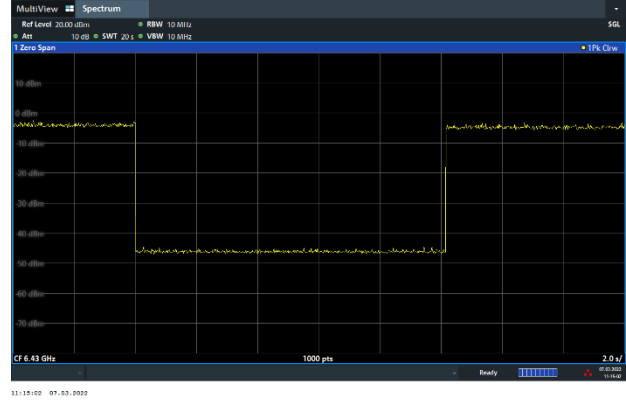
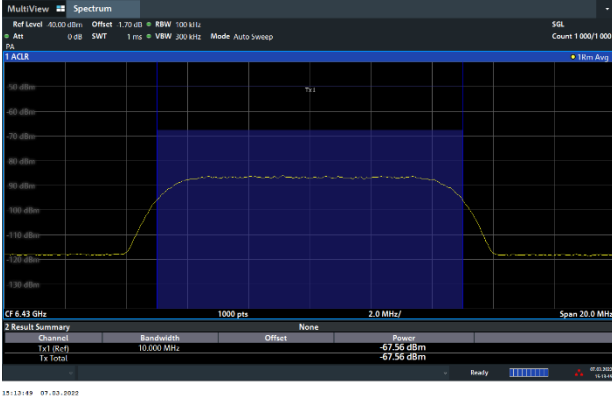




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

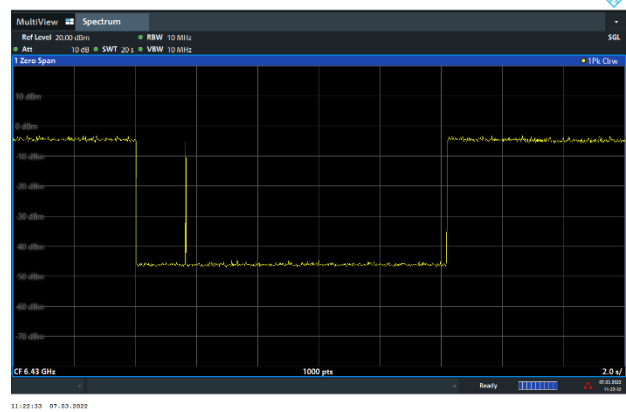
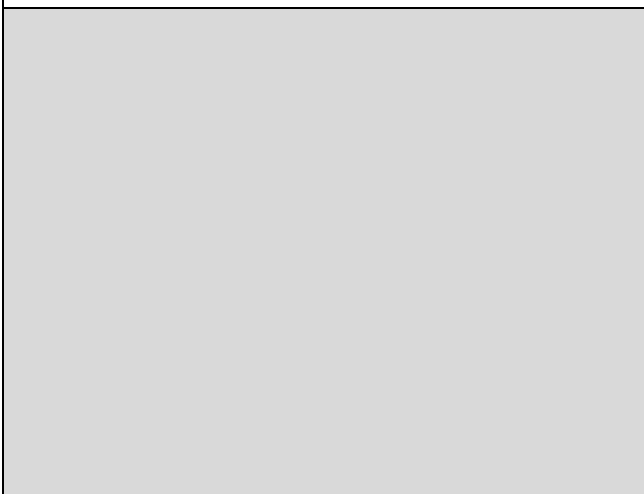
802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -67.56dBm

802.11ax (HE160) / CH111 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -68.56dBm

802.11ax (HE160) / CH111 (Lower edge)
Transmission occur when interferer is 1dB lower.



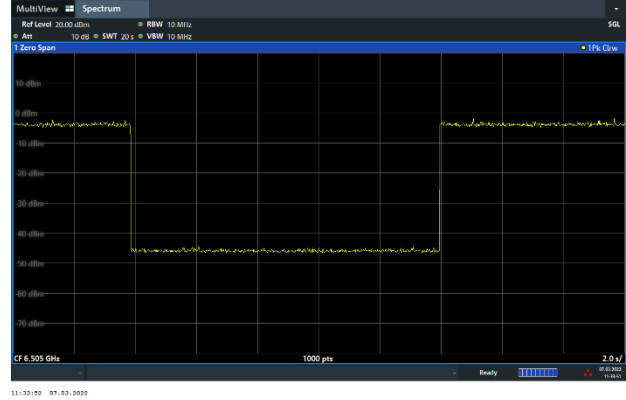
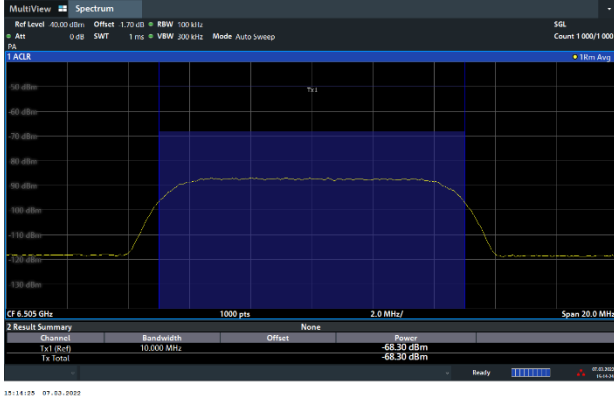


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -68.3dBm

802.11ax (HE160) / CH111 (Middle)

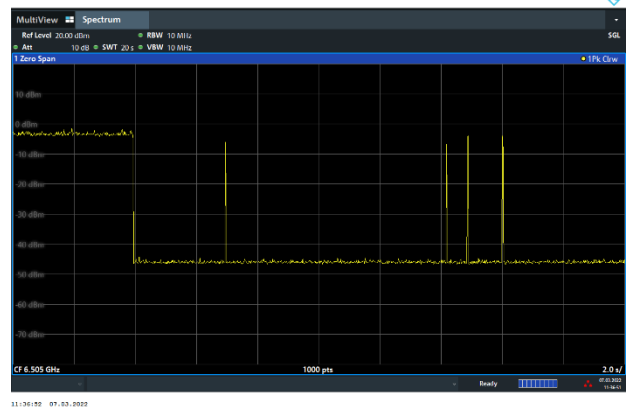
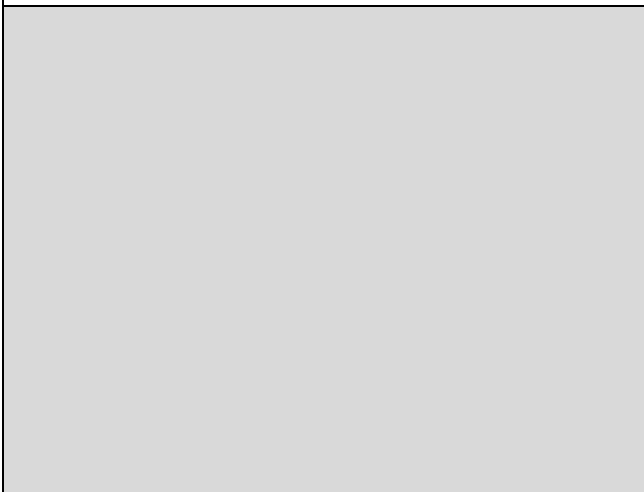
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -69.3dBm

802.11ax (HE160) / CH111 (Middle)

Transmission occur when interferer is 1dB lower.



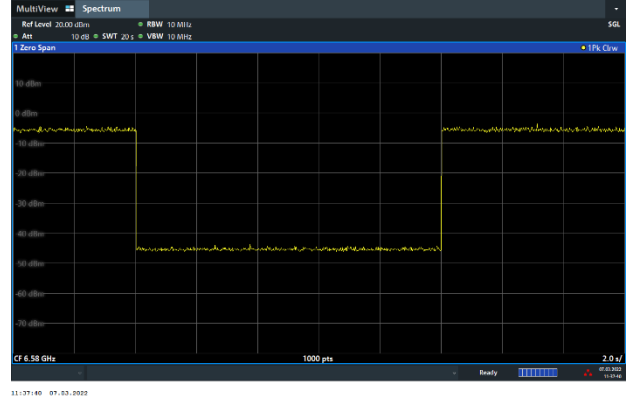
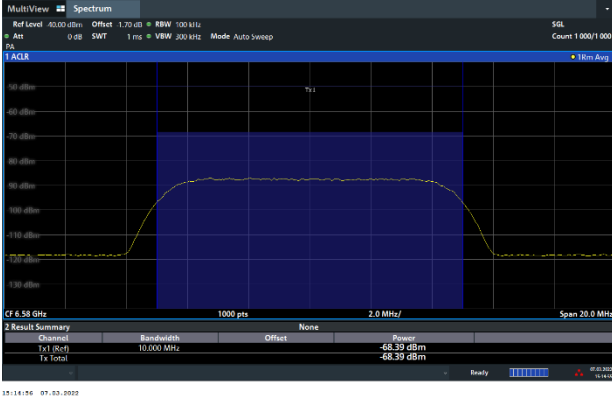


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -68.39dBm

802.11ax (HE160) / CH111 (Upper edge)

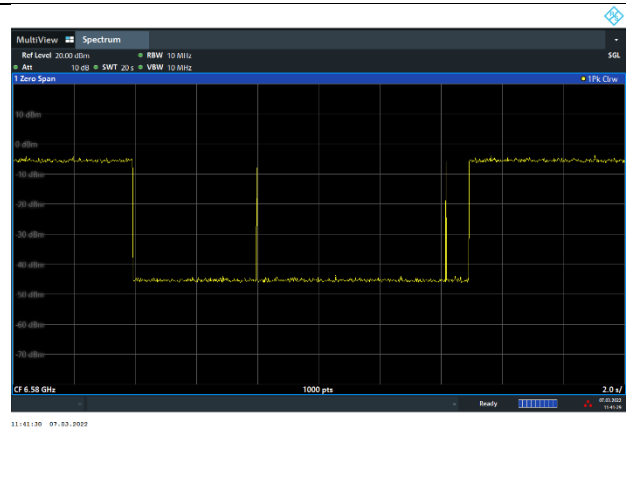
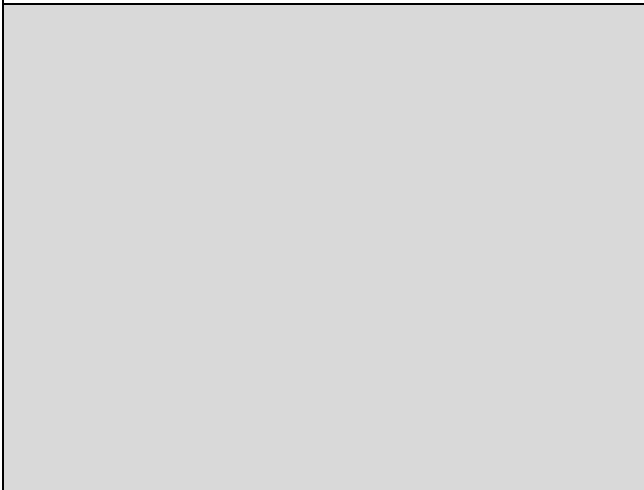
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -69.39dBm

802.11ax (HE160) / CH111 (Upper edge)

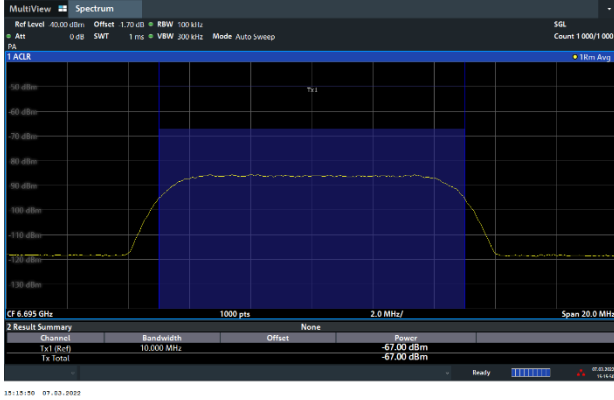
Transmission occur when interferer is 1dB lower.





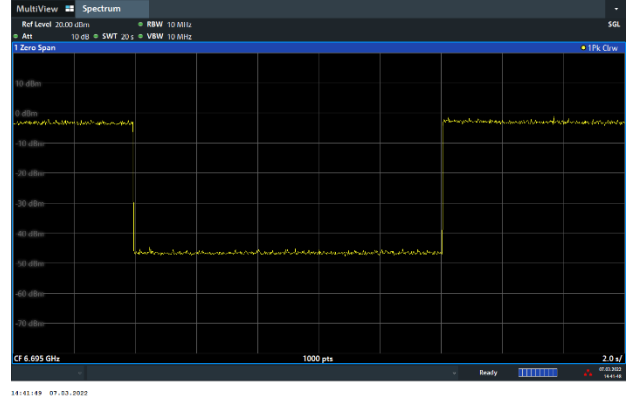
Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -67dBm

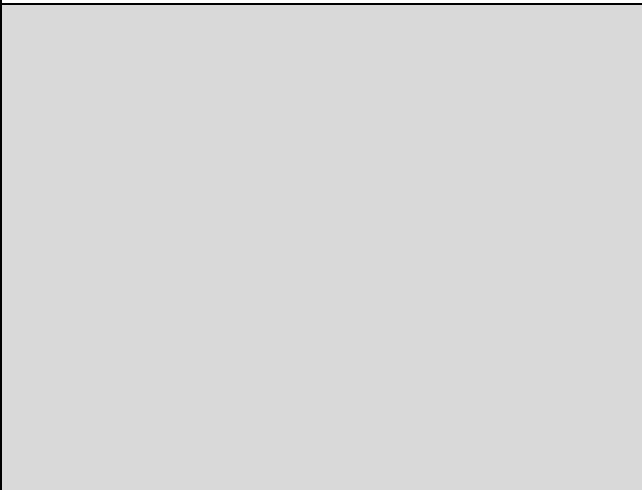


802.11ax (HE20) / CH149

Test result is pass due to no transmission occur.

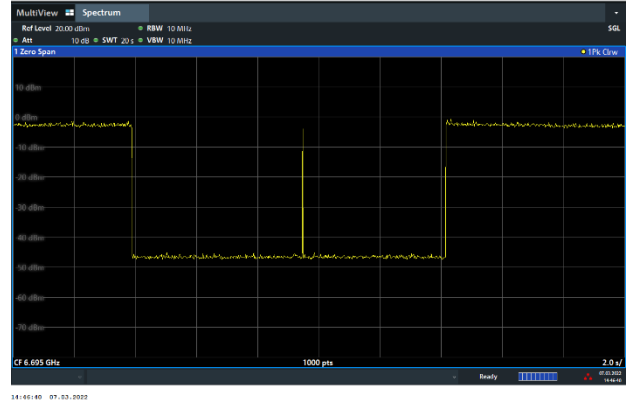


802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -68dBm



802.11ax (HE20) / CH149

Transmission occur when interferer is 1dB lower.

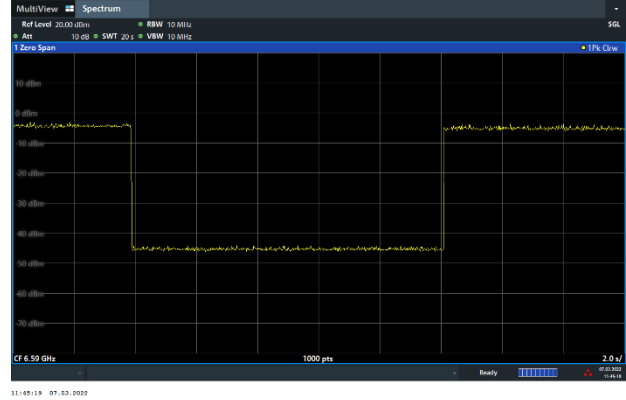
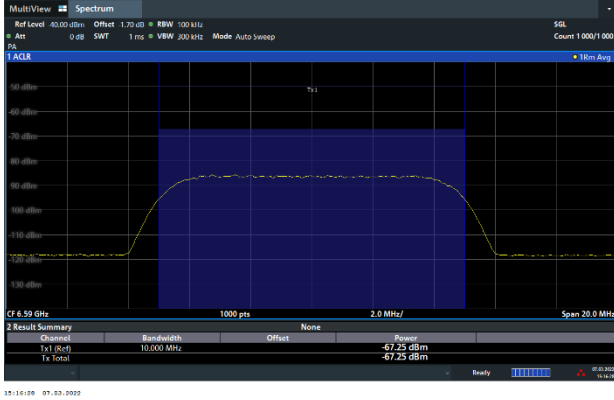




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

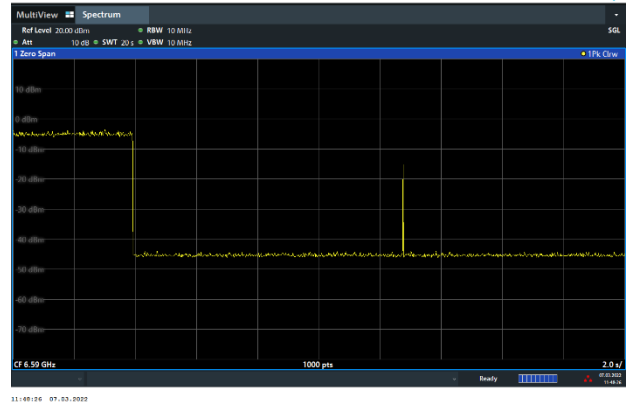
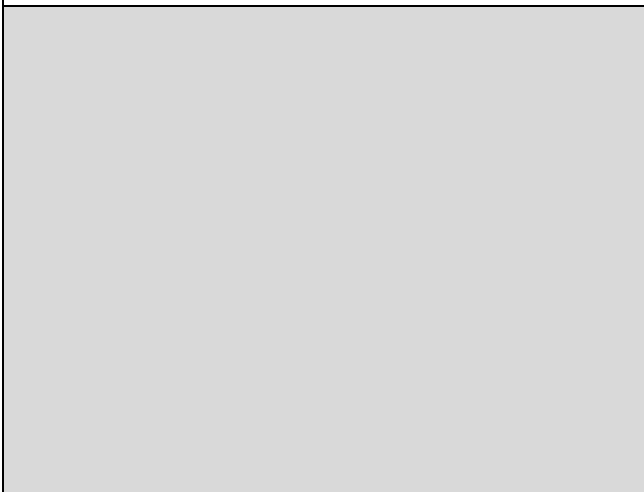
802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -67.25dBm

802.11ax (HE160) / CH143 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -68.25dBm

802.11ax (HE160) / CH143 (Lower edge)
Transmission occur when interferer is 1dB lower.



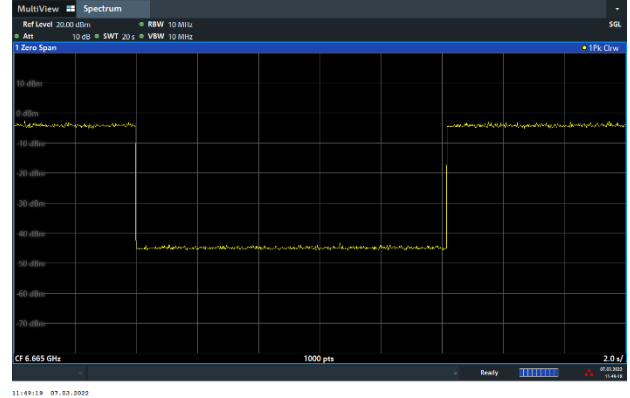
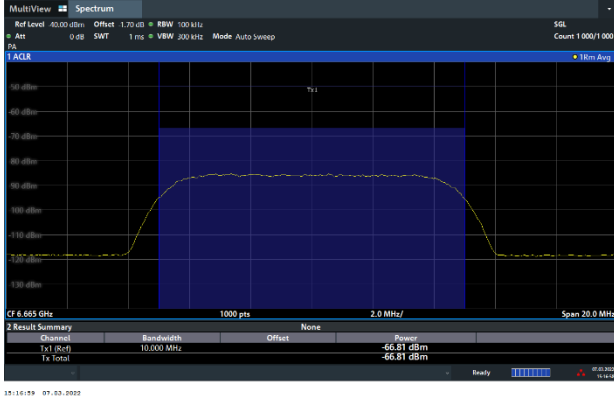


Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -66.81dBm

802.11ax (HE160) / CH143 (Middle)

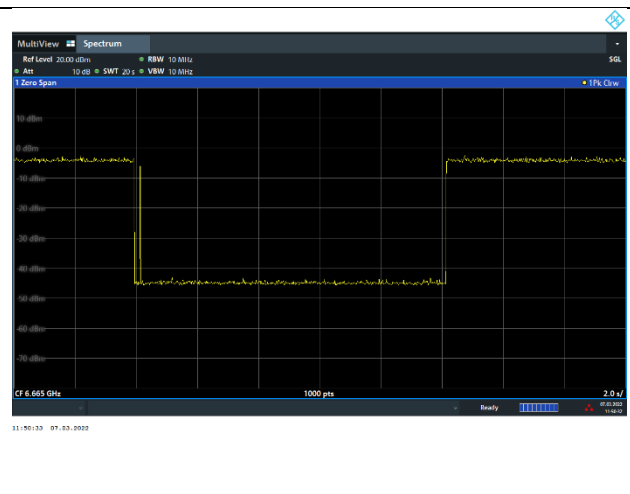
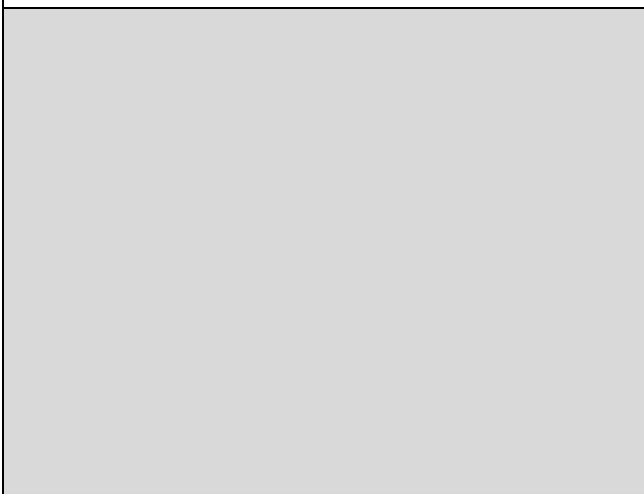
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -67.81dBm

802.11ax (HE160) / CH143 (Middle)

Transmission occur when interferer is 1dB lower.

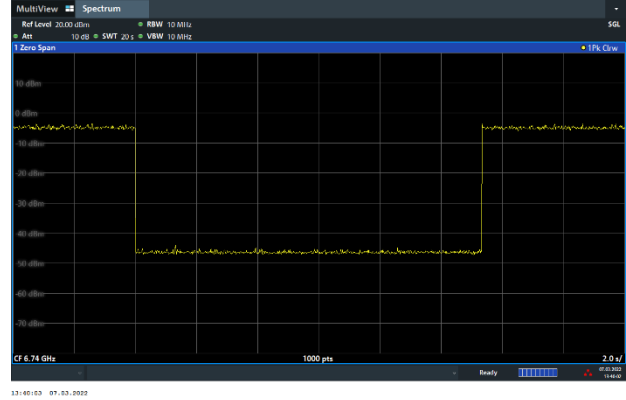
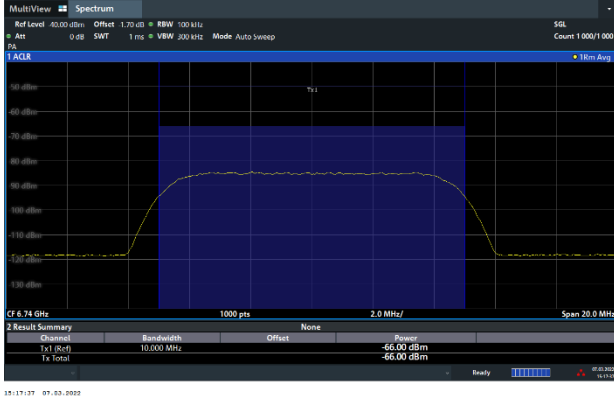




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

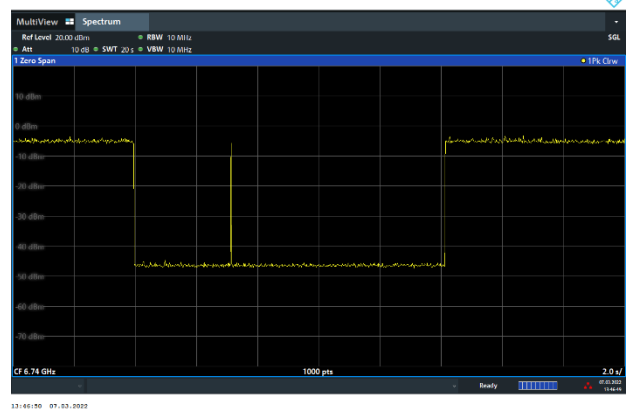
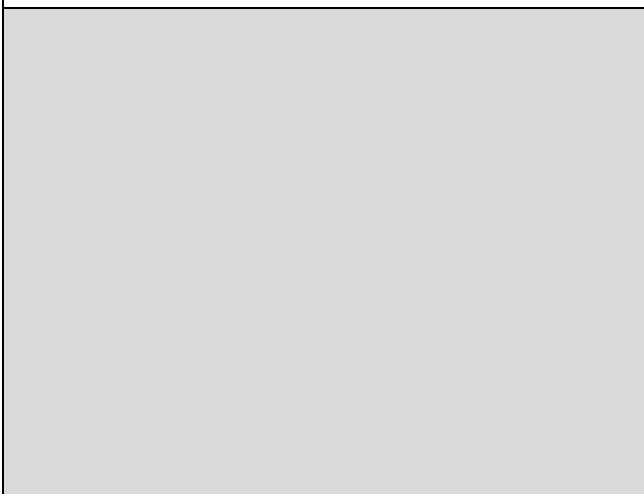
802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -66dBm

802.11ax (HE160) / CH143 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -67dBm

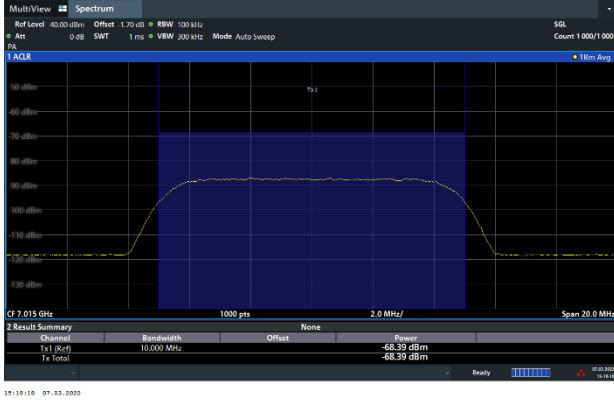
802.11ax (HE160) / CH143 (Upper edge)
Transmission occur when interferer is 1dB lower.



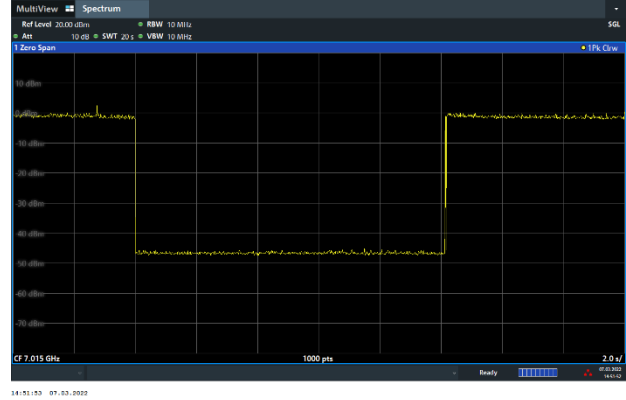


Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

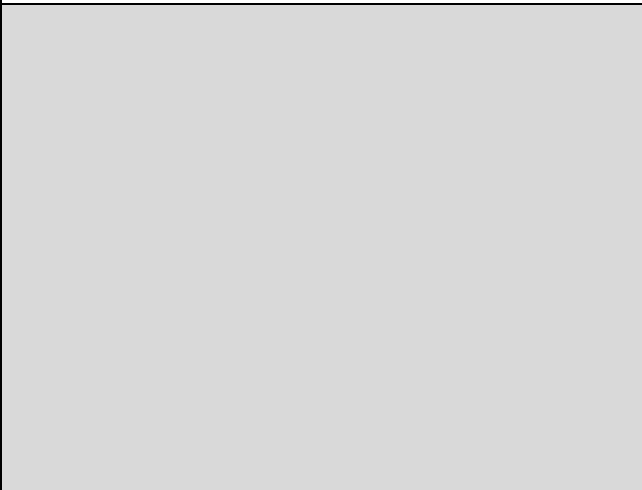
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -68.39dBm



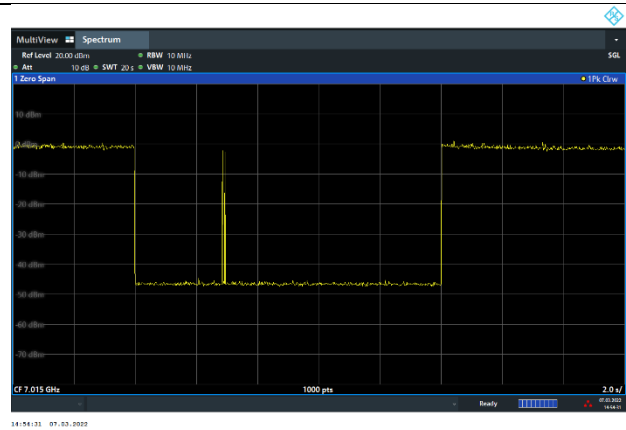
802.11ax (HE20) / CH213
Test result is pass due to no transmission occur.



802.11ax (HE20) / 7015MHz
Threshold Level (TL) = -69.39dBm



802.11ax (HE20) / CH213
Transmission occur when interferer is 1dB lower.

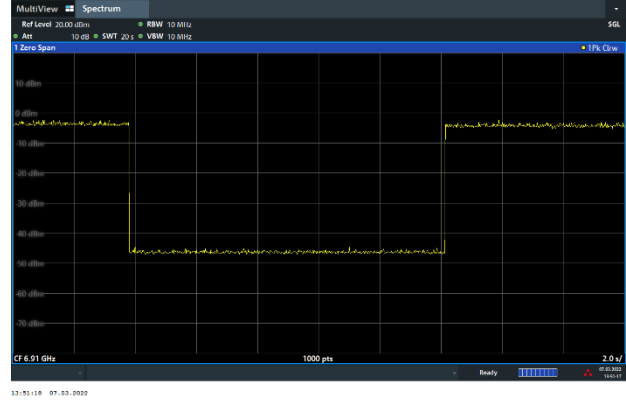
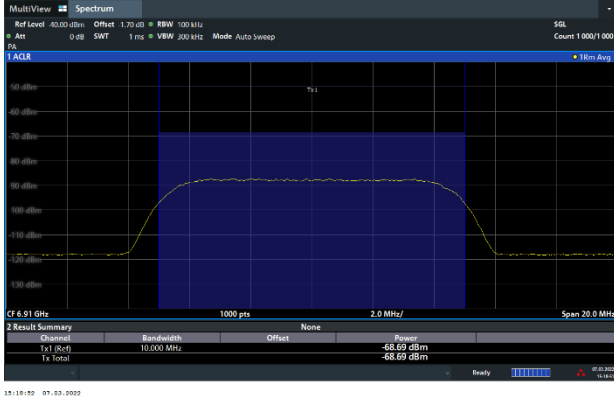




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

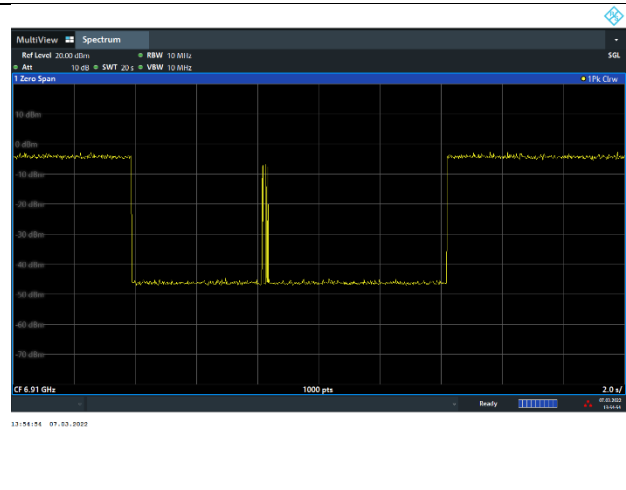
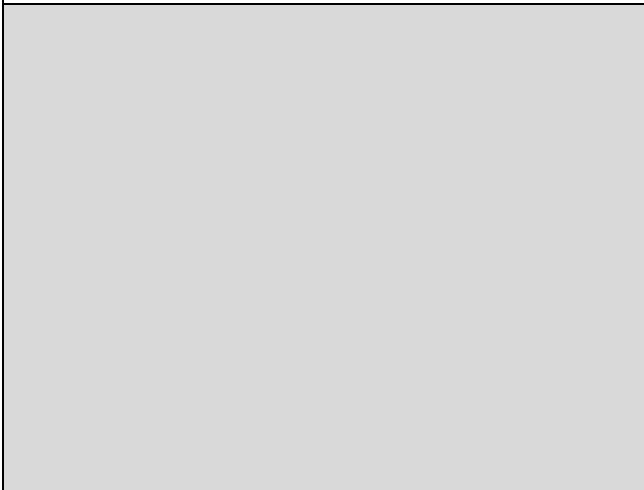
802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -68.69dBm

802.11ax (HE160) / CH207 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -69.69dBm

802.11ax (HE160) / CH207 (Lower edge)
Transmission occur when interferer is 1dB lower.

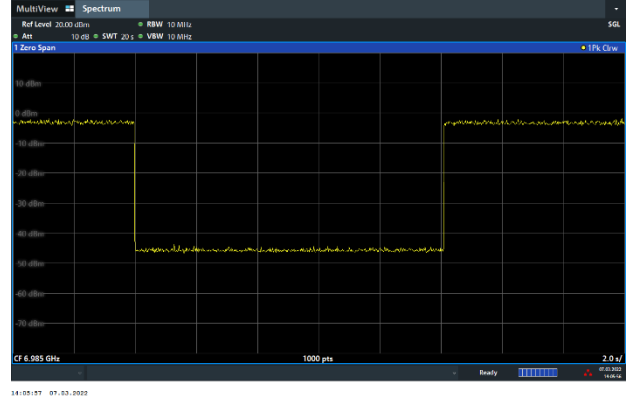
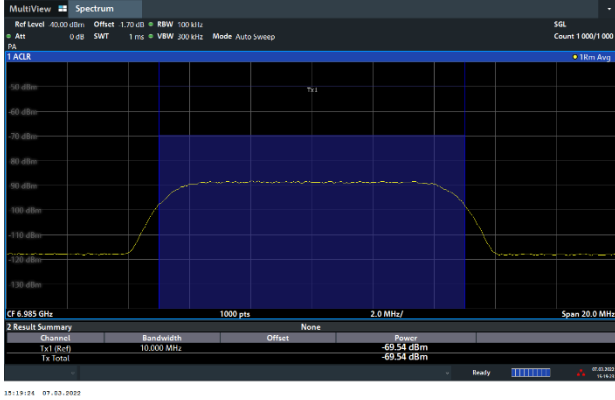


Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -69.54dBm

802.11ax (HE160) / CH207 (Middle)

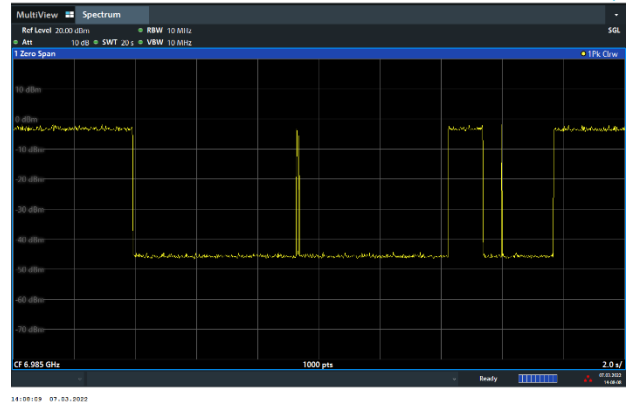
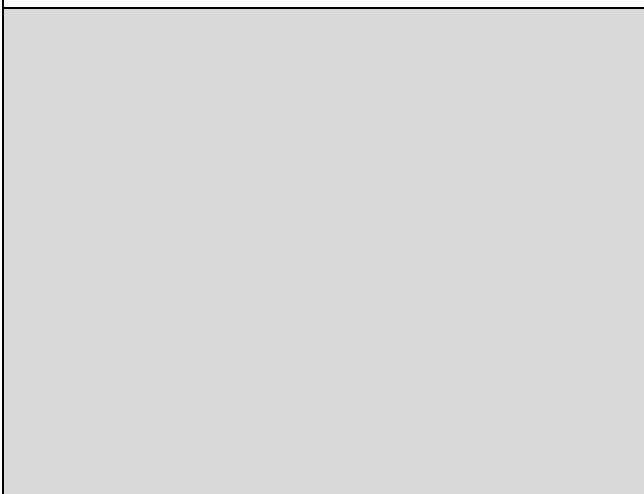
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -70.54dBm

802.11ax (HE160) / CH207 (Middle)

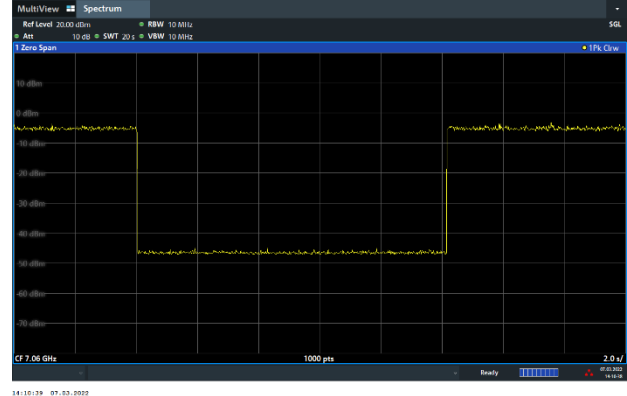
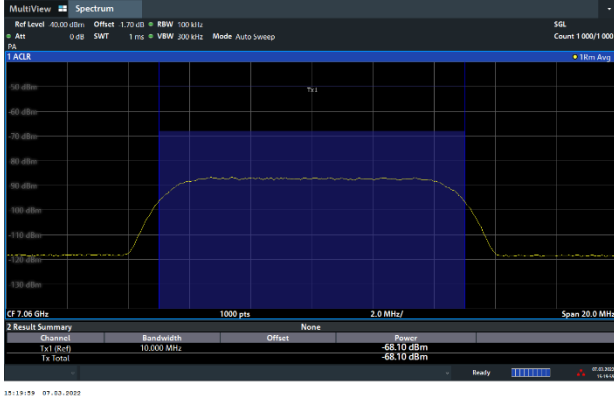
Transmission occur when interferer is 1dB lower.



Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

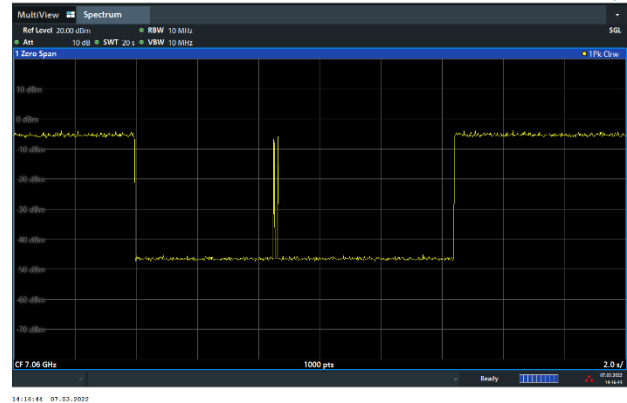
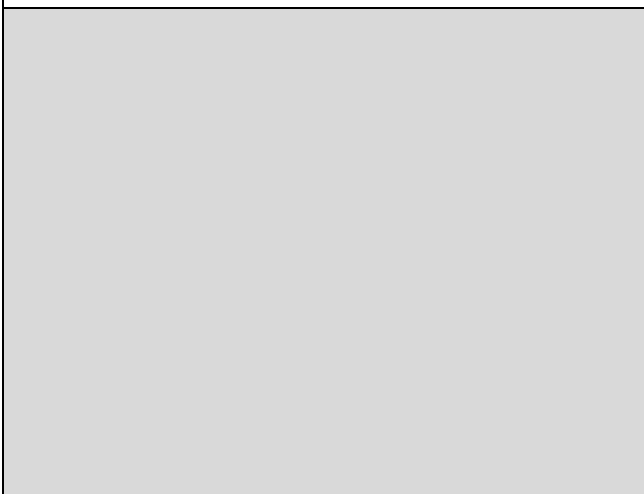
802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -68.1dBm

802.11ax (HE160) / CH207 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -69.1dBm

802.11ax (HE160) / CH207 (Upper edge)
Transmission occur when interferer is 1dB lower.





4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 13,2022	Mar. 7, 2022	Jan. 12,2023	DFS (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20,2021	Mar. 7, 2022	Apr. 19,2022	DFS (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 1	0.5GHz-18GHz	Calibration from System	Mar. 7, 2022	Calibration from System	DFS (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 2	0.5GHz-18GHz	Calibration from System	Mar. 7, 2022	Calibration from System	DFS (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A 1	0.5-18GHz	Calibration from System	Mar. 7, 2022	Calibration from System	DFS (DF02-HY)
Power Divider	Woken	3Way SMA Power Divider Rated to 20W	ST108-0010(# 2)	2GHz-8GHz	Calibration from System	Mar. 7, 2022	Calibration from System	DFS (DF02-HY)