

FCC PART 15E TEST REPORT FOR CERTIFICATION
On Behalf of

Winstars Technology Limited

WiFi 6E Tri-Band AX5400 PCI-E Adapter

Model Number: WS-WN675X3

**Addition Model: WL-WN675X3, WS-WN675X3M, WL-WN675X3M,
PAX2235-WIFI-6E-CARD**

FCC ID: NZ3-WN0006

Applicant :	Winstars Technology Limited
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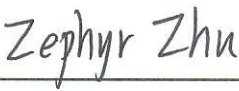
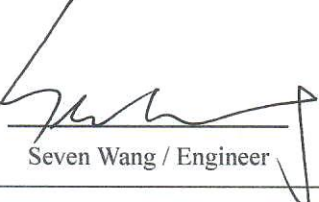
Report Number:	ESTE-R2312167
Date of Test:	Oct. 08 ~ Dec. 22, 2023
Date of Report:	Dec. 25, 2023

TABLE OF CONTENTS

Description	Page
TEST REPORT VERIFICATION.....	3
1. GENERAL INFORMATION.....	5
1.1. Description of Device (EUT)	5
1.2. The antenna information for EUT	7
1.3. Information of RF Cable	7
2. SUMMARY OF TEST	8
2.1. Summary of test result.....	8
2.2. Test Facilities	9
2.3. Measurement uncertainty for EST Technology Co., Ltd.	10
2.4. Assistant equipment used for test.....	10
2.5. Block Diagram	10
2.6. Test Mode.....	11
2.7. Channel List	13
2.8. Power Setting of Test Software.....	16
2.9. Duty Cycle of Test Signal	17
2.10. Test Equipment List	18
3. 26DB BANDWIDTH & 99% OCCUPIED BANDWIDTH	20
3.1. Limit	20
3.2. Test Setup.....	20
3.3. Spectrum Analyzer Setting.....	20
3.4. Test Procedure	21
3.5. Test Result.....	21
4. MAXIMUM CONDUCTED OUTPUT POWER	22
4.1. Limit	22
4.2. Test Setup.....	22
4.3. Spectrum Analyzer Setting.....	22
4.4. Test Procedure	23
4.5. Test Result.....	23
5. PEAK POWER SPECTRAL DENSITY	24
5.1. Limit	24
5.2. Test Setup.....	24
5.3. Spectrum Analyzer Setting.....	24
5.4. Test Procedure	25
5.5. Test Result.....	25
6. IN-BAND EMISSIONS	26
6.1. Limit	26
6.2. Spectrum Analyzer Setting.....	26
6.3. Test Procedure	26
6.4. Test Procedure.....	26
7. CONTENTION-BASED PROTOCOL	27
7.1. LIMITS.....	27
7.2. TEST PROCEDURE.....	29
7.3. Test Procedure.....	30

8.	FREQUENCY STABILITY	31
8.1.	Limit	31
8.2.	Test Setup.....	31
8.3.	Spectrum Analyzer Setting.....	31
8.4.	Test Procedure	32
8.5.	Test Result.....	32
9.	AC POWER LINE CONDUCTED EMISSIONS	33
9.1.	Limit	33
9.2.	Test Setup.....	33
9.3.	Spectrum Analyzer Setting.....	33
9.4.	Test Procedure	33
9.5.	Test Result.....	34
10.	RADIATED EMISSIONS	36
10.1.	Limit	36
10.2.	Test Setup.....	37
10.3.	Spectrum Analyzer Setting.....	38
10.4.	Test Procedure	39
10.5.	Test Result.....	40
11.	ANTENNA REQUIREMENTS	85
11.1.	Limit	85
11.2.	Test Result.....	85
12.	APPENDIX	86
13.	TEST SETUP PHOTO	392
14.	EUT PHOTO.....	394

EST Technology Co., Ltd.

Applicant:	Winstars Technology Limited		
Address:	1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China		
Manufacturer:	Winstars Technology Limited		
Address:	1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China		
Factory:	Winstars Technology Limited		
Address:	1-5F, NO.5, Taisong Industrial Zone, Dalang Community, Dalang Street, Longhua District, Shenzhen, China		
E.U.T:	WiFi 6E Tri-Band AX5400 PCI-E Adapter		
Model Number:	WS-WN675X3		
Addition Model:	WL-WN675X3, WS-WN675X3M, WL-WN675X3M, PAX2235-WIFI-6E-CARD		
Power Supply:	DC 5V		
Trade Name:	-----	Serial No.:	-----
Date of Receipt:	Oct. 08, 2023	Date of Test:	Oct. 08 ~ Dec. 22, 2023
Test Specification:	FCC Part 15 Subpart E 15.407 ANSI C63.10:2013 FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 FCC KDB 662911 D01 Multiple Transmitter Output v02r01 KDB 987594 D02 U-NII 6GHz EMC Measurement v01r01		
Test Result:	The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart E requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Dec. 25, 2023		
Prepared by:	Reviewed by:	Approved by:	
 Zephyr Zhu / Assistant	 Seven Wang / Engineer	 Iceman Hu / Manager	
Other Aspects:	None.		
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.			

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

FCC ID	:	NZ3-WN0006
Product Name	:	WiFi 6E Tri-Band AX5400 PCI-E Adapter
Model Number	:	WS-WN675X3
Software Version	:	22.190.0
Hardware Version	:	WS-WN675X2-PCIE
Operation frequency	:	U-NII-5: 5925 MHz~6425 MHz U-NII-6: 6425 MHz~6525 MHz U-NII-7: 6525 MHz~6875 MHz U-NII-8: 6875 MHz~7125 MHz
Number of channel	:	U-NII-5: IEEE 802.ax HE20: 25 Channels; IEEE 802.ax HE40: 12Channels; IEEE 802.11ax HE80: 6 Channels; IEEE 802.11ax HE160: 3Channels. U-NII-6: IEEE 802.ax HE20: 5 Channels; IEEE 802.ax HE40: 3Channels; IEEE 802.11ax HE80: 1Channel; IEEE 802.11ax HE160: 1 Channel. U-NII-7: IEEE 802.ax HE20: 18 Channels; IEEE 802.ax HE40: 9Channels; IEEE 802.11ax HE80: 5Channels; IEEE 802.11ax HE160: 2 Channels. U-NII-8: IEEE 802.ax HE20: 12 Channels; IEEE 802.ax HE40: 5 Channels; IEEE 802.11ax HE80: 2 Channels; IEEE 802.11ax HE160: 1 Channel.
Modulation	:	OFDMA(QPSK, BPSK, 16-QAM, 64-QAM,256-QAM)
Transmit Data Rate	:	IEEE 802.11ax: up to 980Mbps;
Channels Spacing	:	IEEE 802.11ax HE20: 20MHz ; IEEE 802.11ax HE40: 40MHz ; IEEE 802.11ax HE80: 80MHz ; IEEE 802.11ax HE160: 160MHz

Transmit Power	:	U-NII-5	IEEE 802.11ax HE20: 9.72Bm IEEE 802.11ax HE40: 10.20dBm IEEE 802.11ax HE80: 9.75dBm IEEE 802.11ax HE160: 10.70dBm
		U-NII-6	IEEE 802.11ax HE20: 9.79dBm IEEE 802.11ax HE40: 9.18dBm IEEE 802.11ax HE80: 8.80dBm IEEE 802.11ax HE160: 9.19dBm
		U-NII-7	IEEE 802.11ax HE20: 9.23dBm IEEE 802.11ax HE40: 9.38dBm IEEE 802.11ax HE80: 11.60dBm IEEE 802.11ax HE160: 11.10dBm
		U-NII-8	IEEE 802.11ax HE20: 8.70dBm IEEE 802.11ax HE40: 10.43dBm IEEE 802.11ax HE80: 10.99dBm IEEE 802.11ax HE160: 10.01dBm
Description of Device		Low-power Indoor client	
Sample Type	:	Prototype production	

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. The antenna information for EUT

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	External	-	-0.25
2	-	-	External	-	-0.25
Directional	-	-	External	-	2.76

Remark:

- (1) After pre-test all antenna configurations, the worst case configuration as list below.
 (2) The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.
 (3) The test results of this report only apply to the sample as received.

ANT No. TX Mode	SISO Configuration	MIMO Configuration
IEEE 802.11ax HE20	/	ANT1+ANT2
IEEE 802.11ax HE40	/	ANT1+ANT2
IEEE 802.11ax HE80	/	ANT1+ANT2
IEEE 802.11ax HE160	/	ANT1+ANT2

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	Winstars Technology Limited
Note: 1.The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received. 2.The laboratory is not responsible for the accuracy of the cable loss.	

2. SUMMARY OF TEST

2.1. Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
2	Maximum Conducted Output Power	15.407(a)	PASS
3	Peak Power Spectral Density	15.407(a)	PASS
4	In-Band Emissions	15.407(b)	PASS
5	Contention-based Protocol	FCC 15.407 (d)	PASS
6	Frequency Stability	15.407(g)	PASS
7	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
8	Radiated Emissions	15.209 15.205 15.407(b)	PASS
9	Antenna Requirement	15.203	PASS

Note: "N/A" denotes test is not applicable in this test report.

2.2. Test Facilities

EMC Lab	: Accredited by CNAS, CHINA Registration No.: L5288 This Accreditation is valid until: November 12, 2029 Recognized by FCC, USA Designation Number: CN1215 This Recognition is valid until: January 31, 2024 Accredited by A2LA, USA Registration No.: 4366.01 This Accreditation is valid until: January 31, 2024 Recognized by Industry Canada CAB identifier No.: CN0035 This Recognition is valid until: January 31, 2024 Recognized by VCCI, Japan Registration No.:C-14103; T-20073; R-13663; R-20103; G-20097 Date of registration: Apr. 20, 2020 This Recognition is valid until: Apr. 19, 2026 Recognized by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018 Recognized by Intertek Registration No.: 2011-RTL-L2-64 Date of registration: November 08, 2018
Name of Firm	: EST Technology Co., Ltd.
Site Location	: Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China

2.3. Measurement uncertainty for EST Technology Co., Ltd.

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.54dB
Uncertainty for spurious emissions test (Below 30MHz)	±1.62 dB
Uncertainty for Radiation Emission test (30MHz-1GHz)	3.62
Uncertainty for Radiation Emission test (1GHz to 18GHz)	4.86
Uncertainty for spurious emissions test (18GHz to 40GHz)	4.67
Uncertainty for radio frequency	7×10 ⁻⁸
Uncertainty for conducted RF Power	1.08dB
Uncertainty for Power density test	0.26dB
Temperature	±0.6°C
Humidity	±4.0 %
Volatage DC	±1.0%
Volatage (AC, <10KHz)	±1.5%

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

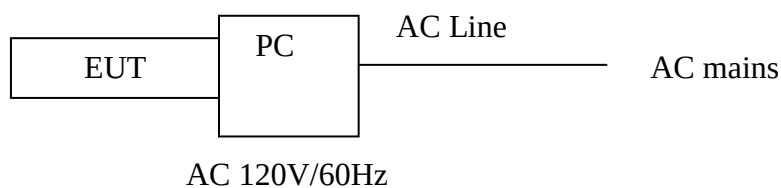
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	AC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground.



(EUT: WiFi 6E Tri-Band AX5400 PCI-E Adapter)

2.6. Test Mode

Pre-scan has been combined all possible modulations and data rates to determine the worst case test mode, the worst case test mode was selected for the final test as listed below.

Test Item	Test Mode	Channel	Modulation	Data rate
26dB Bandwidth	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0
99% Occupied Bandwidth	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0
Maximum Conducted Output Power	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0
Peak Power Spectral Density	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0
In-Band Emissions	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0

Test Item	Test Mode	Channel	Modulation	Data rate
Contention-based Protocol	IEEE 802.11ax HE20	37/101/149/213	OFDMA	MCS0
	IEEE 802.11ax HE160	47/111/143/207	OFDMA	MCS0
Frequency Stability	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0
AC Power Line Conducted Emissions	IEEE 802.11ax HE20	1	OFDMA	MCS0
Radiated Emissions	IEEE 802.11ax HE20	1/45/93/97/105/113/117/149/182/185//189/209/233	OFDMA	MCS0
	IEEE 802.11ax HE40	3/43/91/99/101/115/123/147/179/187/195/203/227	OFDMA	MCS0
	IEEE 802.11ax HE80	7/39/87/103/119/135/151/167/183/199/215	OFDMA	MCS0
	IEEE 802.11ax HE160	15/47/79/111/143/175/207	OFDMA	MCS0

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis(X,Y,Z), the worst case was found when positioned on **X-plane**.

2.7. Channel List

Band	Mode	Channel	Frequency (MHz)
U-NII-5	IEEE 802.11ax HE20	1	5955
		5	5975
		9	5995
		13	6015
		17	6035
		21	6055
		25	6075
		29	6095
		33	6115
		37	6135
		41	6155
		45	6175
		49	6195
		53	6215
		57	6235
		61	6225
		65	6275
		69	6295
		73	6315
		77	6335
		81	6355
		85	6375
		89	6395
		93	6415
	IEEE 802.11ax HE40	3	5965
		11	6005
		19	6045
		27	6085
		35	6125
		43	6165
		51	6205
		59	6245
		67	6285
		75	6325
		83	6365
		91	6405
	IEEE 802.11ax HE80	7	5985
		23	6065
		39	6145
		55	6225
		71	6305
		87	6385
	IEEE 802.11ax HE160	15	6025
		47	6185
		79	6345

Band	Mode	Channel	Frequency (MHz)
U-NII-6	IEEE 802.11ax HE20	97	6435
		101	6455
		105	6475
		109	6495
		113	6515
	IEEE 802.11ax HE40	99	6445
		107	6485
	IEEE 802.11ax HE80	103	6465
	IEEE 802.11ax HE160	111	6505

Band	Mode	Channel	Frequency (MHz)
U-NII-7	IEEE 802.11ax HE20	117	6535
		121	6555
		125	6575
		129	6595
		133	6615
		137	6635
		141	6655
		145	6675
		149	6695
		153	6715
		157	6735
		161	6755
		165	6775
		169	6795
		173	6815
		177	6835
		181	6855
		185	6875
	IEEE 802.11ax HE40	115	6525
		123	6605
		131	6645
		139	6645
		147	6685
		155	6725
		163	6765
		171	6805
		179	6845
	IEEE 802.11ax HE80	15	6025
		47	6185
		79	6345
	IEEE 802.11ax HE160	143	6665
		175	6825

Band	Mode	Channel	Frequency (MHz)
U-NII-8	IEEE 802.11ax HE20	189	6895
		193	6915
		197	6935
		201	6955
		205	6975
		209	6995
		213	7015
		217	7035
		221	7055
		225	7075
		229	7095
		233	7115
	IEEE 802.11ax HE40	187	6885
		195	6925
		203	6965
		211	7005
		219	7045
		227	7085
	IEEE 802.11ax HE80	199	6945
		215	7025
	IEEE 802.11ax HE160	207	6985

2.8. Power Setting of Test Software

Software Name	DRTU		
U-NII-5			
Frequency(MHz)	5955	6175	6415
IEEE 802.11ax HE20 Setting	5,5	5,5	5,5
Frequency(MHz)	5965	6165	6405
IEEE 802.11ax HE40 Setting	8,8	8,8	8,8
Frequency(MHz)	5985	6145	6385
IEEE 802.11ax HE80 Setting	8,8	8,8	8,8
Frequency(MHz)	6025	6185	6345
IEEE 802.11ax HE160 Setting	10,10	10,10	10,10
U-NII-6			
Frequency(MHz)	6435	6475	6515
IEEE 802.11ax HE20 Setting	10,10	10,10	8,8
Frequency(MHz)	6445	6485	6525
IEEE 802.11ax HE40 Setting	8,8	8,8	8,8
Frequency(MHz)	6465	-	-
IEEE 802.11ax HE80 Setting	9,9	-	-
Frequency(MHz)	6505	-	-
IEEE 802.11ax HE160 Setting	10,10	-	-
U-NII-7			
Frequency(MHz)	6535	6695	6855
IEEE 802.11ax HE20 Setting	9,9	9,9	8,8
Frequency(MHz)	6875	-	-
IEEE 802.11ax HE20 Setting	8,8	-	-
Frequency(MHz)	6565	6685	6845
IEEE 802.11ax HE40 Setting	8,8	8,8	8,8
Frequency(MHz)	6545	6625	6705
IEEE 802.11ax HE80 Setting	10,10	10,10	10,10
Frequency(MHz)	6785	6865	-
IEEE 802.11ax HE80 Setting	10,10	10,10	-
Frequency(MHz)	6665	6825	-
IEEE 802.11ax HE160 Setting	10,10	10,10	-
U-NII-8			
Frequency(MHz)	6895	6995	7115
IEEE 802.11ax HE20 Setting	8,8	8,8	8,8
Frequency(MHz)	6885	6925	6965
IEEE 802.11ax HE40 Setting	8,8	8,8	8,8
Frequency(MHz)	7085	-	-
IEEE 802.11ax HE40 Setting	8,8	-	-
Frequency(MHz)	6945	7025	-
IEEE 802.11ax HE80 Setting	10,10		-
Frequency(MHz)	6985	-	-

IEEE 802.11ax HE160 Setting	10,10	-	-
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Note: This information is provided by the applicant.

2.9. Duty Cycle of Test Signal

Refer to section 10: Appendix B

Note:

1. Duty Cycle=On Time/Total Time×100%.
2. Duty Factor= $10 \times \text{LOG}(1/\text{Duty Cycle})$.
3. If duty cycle <98 %, the conducted average output power and average power spectral density should be add duty factor.
4. If duty cycle ≥ 98 %,the EUT is consider to be transmitting continuously,the conducted average output power and average power spectral density no need to add duty factor.
5. The on-time time is transmission duration(T).
6. The VBW Setting is use for RMS measurement in Unwanted Emissions and Band Edge(Above 1GHz) Test.

2.10. Test Equipment List

For AC power conducted emissions test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 12,23	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 12,23	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For radiated emissions test(9KHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Active Loop Antenna	SCHWARZB ECK	FMZB 1519B	EST-E054	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A

For radiated emissions test(30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 12,23	1 Year
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A

For radiated emission test(Above 1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA9120D	EST-E144	LISAI	June 12,23	1 Year
Horn Antenna	Com-Power	AHA-840	EST-E133	LISAI	June 12,23	1 Year
Low Noise Amplifier	RF	TRLA-01018 0G45N	EST-E142	LISAI	June 12,23	1 Year
Spectrum Analyzer	Rohde & Schwarz	FSV40	EST-E069	LISAI	June 12,23	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A
Above 1GHz Cable	N/A	EST-003	N/A	N/A	N/A	N/A

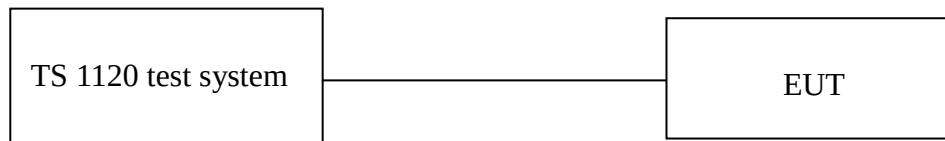
For connect EUT antenna terminal test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
TS 1120	Tonscend	/	/	/	/	/
Test Software	Tonscend	TS1120-3	3.3.38	/	/	/
RF Control Unit	Tonscend	JS0806-2	EST-E134	LISAI	June 12,23	1 Year
WiFi-7GHz Band Extender	Tonscend	TS-WF7U	EST-E135	LISAI	June 12,23	1 Year
Signal and Spectrum Analyzer	Keysight	N9010B	EST-E141	LISAI	June 12,23	1 Year
Wireless Connectivity Tester	Rohde &Schwarz	CMW 500	EST-E137	LISAI	June 12,23	1 Year
MXG Vector Signal Generator	Keysight	N5182B	EST-E138	LISAI	June 12,23	1 Year
MXG Vector Signal Generator	Keysight	N5181A	EST-E139	LISAI	June 12,23	1 Year

3. 26dB BANDWIDTH & 99% OCCUPIED BANDWIDTH

3.1. Limit

Band	Frequency (MHz)	Test Item	Limit
U-NII-5 U-NII-6 U-NII-7 U-NII-8	5925-7125	26dB Bandwidth&99% Occupied Bandwidth	320 megahertz

3.2. Test Setup



3.3. Spectrum Analyzer Setting

26dB Bandwidth	
Spectrum Parameters	Setting
RBW	approximately 1% of the emission bandwidth
VBW	> RBW
Span	40MHz(20MHz Bandwidth mode) 60MHz(40MHz Bandwidth mode) 120MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

99% Occupied Bandwidth	
Spectrum Parameters	Setting
RBW	1% to 5% of the OBW
VBW	approximately three times the RBW
Span	between 1.5 times and 5.0 times the OBW
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4. Test Procedure

For 26dB Bandwidth Measurement :

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

For 99% Occupied Bandwidth Measurement :

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 3.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the 99% power bandwidth function to measure bandwidth.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

3.5. Test Result

Refer to section 10: Appendix A1/A2

4. MAXIMUM CONDUCTED OUTPUT POWER

4.1. Limit

Test Item	Frequency Range (MHz)	Limit
Conducted Output Power	5.925-6.425 GHz 6.525-6.875 GHz	Standard Power Access Point The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm. For outdoor devices, the 5.925-6.425 GHz maximum e.i.r.p. at any elevation angle above 30 degrees 6.525-6.875 GHz as measured from the horizon must not exceed 125 mW (21dBm).
	5.925-7.125 GHz	Indoor Access Point The maximum e.i.r.p. over the frequency band of operation Must not exceed 30 dBm.
	5.925-7.125 GHz	Subordinate Device The maximum e.i.r.p. over the frequency band of operation Must not exceed 30 dBm.
	5.925-6.425 GHz 6.525-6.875 GHz	Client Devices, Operating Under The Control Of A Standard Power Access Point The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power Access point's authorized transmit power.
	5.925-7.125 GHz	Client Devices, Operating Under The Control Of An Indoor Access Point The maximum e.i.r.p. over the frequency band of operation Must not exceed 24 dBm.

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	40MHz(20MHz Bandwidth mode) 80MHz(40MHz Bandwidth mode) 160MHz(80MHz Bandwidth mode)
Sweep Time	Auto
Detector	RMS
Trace Mode	Max Hold

4.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 4.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Use the channel power function to measure maximum peak output power, allow trace to stabilize, save test pictures.
- e. Repeat above procedures until all modes and channels were measured.
- f. Record the results in the test report.

4.5. Test Result

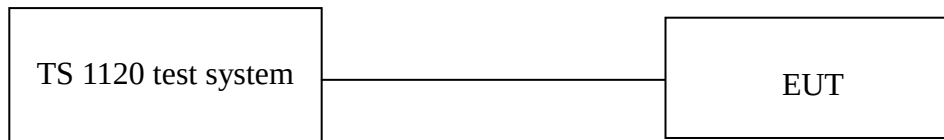
Refer to section 10: Appendix C

5. PEAK POWER SPECTRAL DENSITY

5.1. Limit

Test Item	Frequency Range (MHz)	Limit
Conducted Output Power	5.925-6.425 GHz 6.525-6.875 GHz	Standard Power Access Point The maximum power spectral density must not exceed 23 dBm e.i.r.p in any 1-megahertz band.
	5.925-7.125 GHz	Indoor Access Point The maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band..
	5.925-7.125 GHz	Subordinate Device The maximum power spectral density must not exceed 5 dBm e.i.r.p in any 1-megahertz band.
	5.925-6.425 GHz 6.525-6.875 GHz	Client Devices, Operating Under The Control Of A Standard Power Access Point The maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band.
	5.925-7.125 GHz	Client Devices, Operating Under The Control Of An Indoor Access Point The maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band..

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	encompass the entire 26 dB EBW or 99% OBW of the signal
Sweep Time	Auto
Number of Sweep Point	$\geq 2 \times \text{SPAN/RBW}$
Detector	RMS(power averaging)
Trace Average	≥ 100 traces

5.4. Test Procedure

- a. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- b. Spectrum analyzer setting parameters in accordance with section 5.3.
- c. Set the EUT transmit continuously with maximum output power.
- d. Allow trace to stabilize, use the marker-to-peak function to set the marker to the average of the emission.
- e. If the duty cycle of test signal $< 98\%$, the result = max measured value + $10 \times \log(1/\text{duty cycle})$;
If the duty cycle of test signal $\geq 98\%$, the result = max measured value.
- f. Repeat above procedures until all modes and channels were measured.
- g. Record the results in the test report.

5.5. Test Result

Refer to section 10: Appendix D

6. IN-BAND EMISSIONS

6.1. Limit

Please refer to CFR 47 FCC §15.407 (b) (7)

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be Suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from The channel center, and by 40 dB at one- and one-half times the channel bandwidth away from Channel center. At frequencies between one megahertz outside an unlicensed device's channel Edge and one channel bandwidth from the center of the channel, the limits must be linearly Interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and One-half times an unlicensed device's channel Bandwidth, the limits must be linearly interpolated Between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than One- and one-half times the channel bandwidth Must be suppressed by at least 40 dB.

6.2. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	same RBW used for 26 dB EBW measurement
VBW	3 X RBW
Sweep Time	Auto
Number of points in sweep	$\geq 2 \times \text{span} / \text{RBW}$
Detector	RMS
Trace Mode	Max Hold

6.3. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power.
- Use the channel power function to measure maximum peak output power, allow trace to stabilize, save test pictures.
- Repeat above procedures until all modes and channels were measured.
- Record the results in the test report.

6.4. Test Procedure

Refer to section 10: Appendix D1

7. CONTENTION-BASED PROTOCOL

7.1. LIMITS

Please refer to CFR 47 FCC §15.407 (d) (6) and RSS-248 Issue 2 Clause 4.7

Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band (herein referred to as unlicensed devices) are required to use technologies that include a contention-based protocol to avoid co-channel interference with incumbent devices sharing the band. To ensure incumbent co-channel operations are detected in a technology-agnostic manner, unlicensed devices are required to detect co-channel radio frequency energy (energy detect) and avoid simultaneous transmission.

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 (in which incumbent signal is transmitted) and stay off the incumbent channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm)¹. 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.

a) Simulating Incumbent Signal

The incumbent signal is assumed to be noise-like. One example of such transmission could be Digital Video Broadcasting (DVB) systems that use Orthogonal Frequency Division Multiplexing (OFDM). Incumbent systems may also use different bandwidths for their transmissions. A 10 MHz-wide additive white Gaussian noise (AWGN) signal is selected to simulate and represent incumbent transmission.

b) Required number of tests

Incumbent and EUT (access point, subordinate or client) signals may occupy different portions of the channel. Depending on the EUT transmission bandwidth and incumbent signal center frequency (simulated by a 10 MHz-wide AWGN signal), the center frequency of the EUT signal f_{cc1} may fall within the incumbent's occupied bandwidth (Figure 1.a), or outside of it (Figure 1.b).

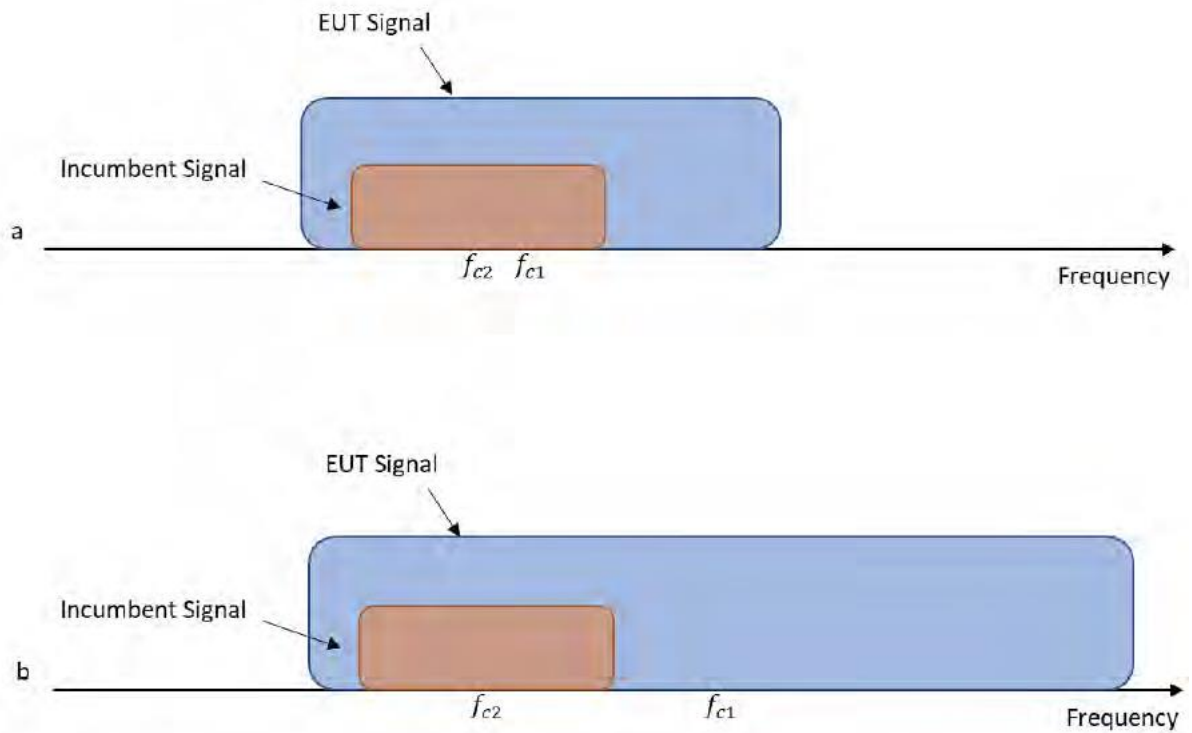


Figure 1. Two possible scenarios where a) center frequency of EUT transmission falls within incumbent's bandwidth, or b) outside of it

To ensure EUT reliably detects an incumbent signal in both scenarios shown in Figure 1, the detection threshold test may be repeated more than once with the incumbent signal (having center frequency f_{c2}) tuned to different center frequencies within the UT transmission bandwidth. The criteria specified in Table 1 determines how many times the detection threshold test must be performed;

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:

BWEUT: Transmission bandwidth of EUT signal

BWInc: Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

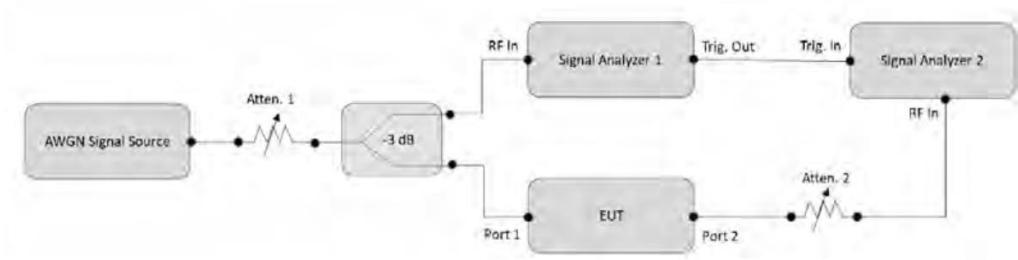
$fc1$: Center frequency of EUT transmission

$fc2$: Center frequency of simulated incumbent signal

7.2. TEST PROCEDURE

To ensure the EUT is capable of detecting co-channel energy, the first step is to configure the EUT to transmit with a constant duty cycle.² To simulate an incumbent signal, a signal generator (or similar source) that is capable of generating band-limited additive white Gaussian noise (AWGN) is required. Depending on the EUT antenna configuration, the AWGN signal can be provided to the EUT receiver via a conducted method (Figure 2) or a radiated method (Figure 3). Figure 2 shows the conducted test setup where a band-limited AWGN signal is generated at a very low power level and injected into the EUT's antenna port. The AWGN signal power level is then incrementally increased while the EUT transmission is monitored on a signal analyzer 2 to verify if the EUT can sense the AWGN signal and can subsequently cease its transmission. A triggered measurement, as shown in Figure 2, is optional, and assists with determining the time it takes the EUT to cease transmission (or vacate the channel) upon detecting RF energy. If the EUT has only one antenna port, then an AWGN signal source can be connected to the same antenna port.

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. Connect the output port of the EUT to the signal analyzer 2, as shown in Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
4. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
5. 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.
6. 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 Figure 2.
7. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
8. 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.
9. (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.
10. 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.



7.3. Test Procedure

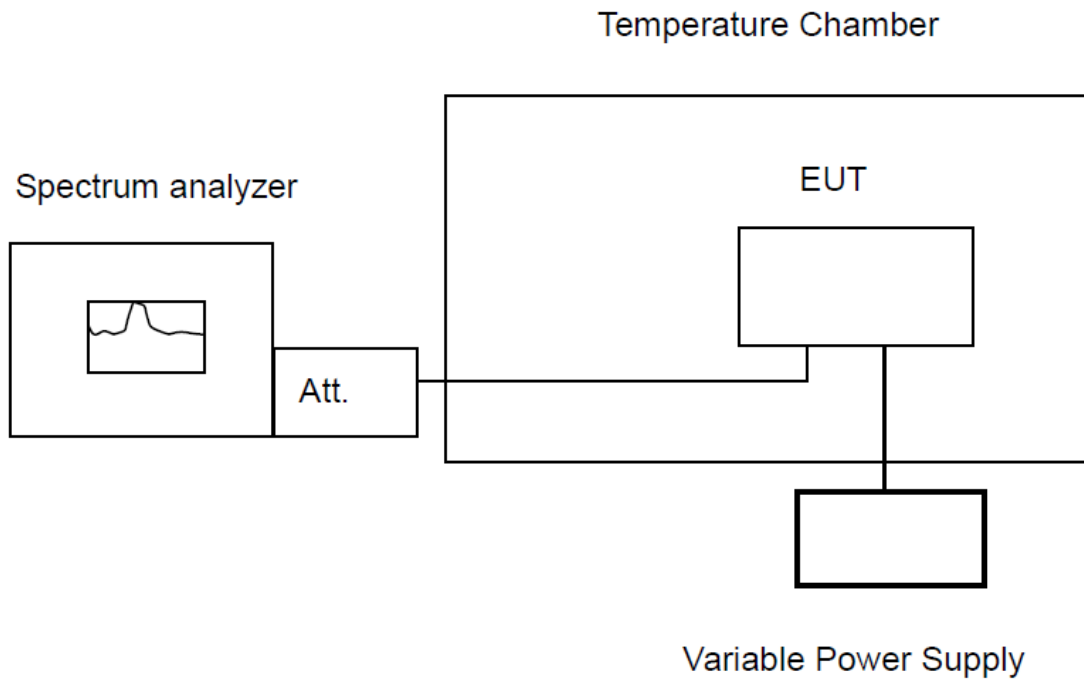
Refer to section 10: Appendix E1

8. FREQUENCY STABILITY

8.1. Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

8.2. Test Setup



8.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	10KHz
VBW	10KHz
Span	200KHz
Sweep Time	Auto
Detector	PEAK
Trace Mode	Max Hold

8.4. Test Procedure

For measurement frequency stability under temperature variation :

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Set the temperature control on the chamber to the Specified temperature and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized.
- h. Repeat step d through step f to measured the temperature form -20°C to $+50^{\circ}\text{C}$ in 10°C steps.

For frequency stability under voltage variation:

- a. Supply the EUT with a nominal ac voltage or install a new or fully charged battery in the EUT.
- b. Turn the EUT OFF and place it inside the environmental temperature chamber.
- c. Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- d. Spectrum analyzer setting parameters in accordance with section 7.3.
- e. Unless otherwise specified, set the temperature control on the chamber to the ambient room temperature ($+15^{\circ}\text{C}$ to $+25^{\circ}\text{C}$) and allow the oscillator heater and the chamber temperature to stabilize.
- f. Turn the EUT ON with the rated voltage, and the EUT transmit continuously with maximum output power.
- g. Record the operating frequency.
- h. Repeat step d through step f to measured the varied from 85% to 115% of the rated voltage.

8.5. Test Result

Refer to section 10: Appendix F

9. AC POWER LINE CONDUCTED EMISSIONS

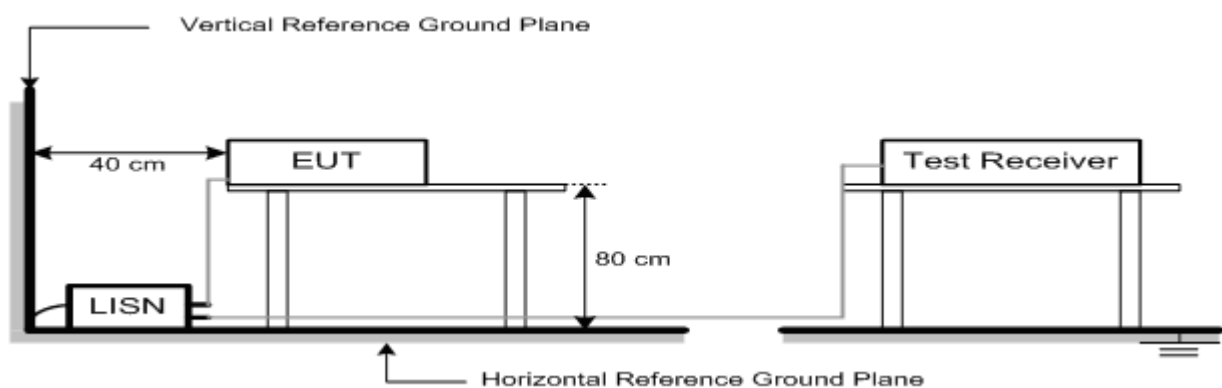
9.1. Limit

Frequency			Maximum RF Line Voltage	
			Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz	~	500kHz	66 ~ 56*	56 ~ 46*
500kHz	~	5MHz	56	46
5MHz	~	30MHz	60	50

Notes:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

9.2. Test Setup



9.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

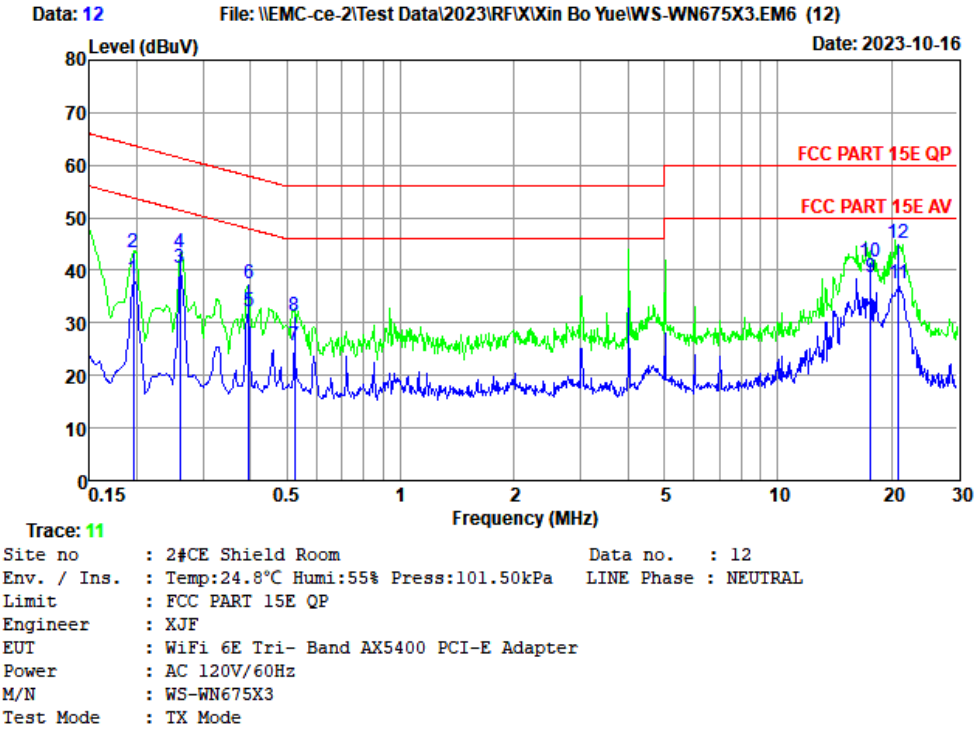
9.4. Test Procedure

- The EUT was placed on a non-metallic table, 80cm above the ground plane.
- The EUT Power connected to the power mains through a line impedance stabilization network.
- Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- Set the EUT transmit continuously with maximum output power.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- Record the results in the test report.

9.5. Test Result

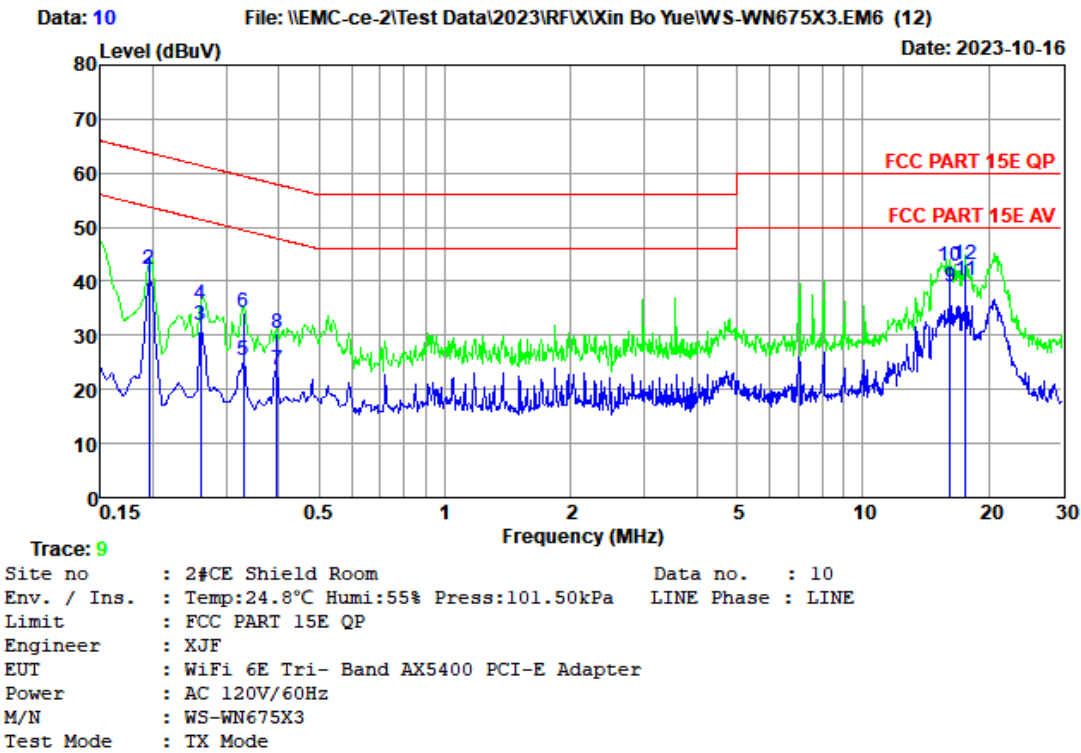
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	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.195	10.14	9.93	18.28	38.35	53.80	15.45	Average
2	0.195	10.14	9.93	23.21	43.28	63.80	20.52	QP
3	0.260	10.16	9.95	20.32	40.43	51.42	10.99	Average
4	0.260	10.16	9.95	23.14	43.25	61.42	18.17	QP
5	0.396	10.06	9.90	12.09	32.05	47.95	15.90	Average
6	0.396	10.06	9.90	17.56	37.52	57.95	20.43	QP
7	0.524	9.99	9.95	5.89	25.83	46.00	20.17	Average
8	0.524	9.99	9.95	11.25	31.19	56.00	24.81	QP
9	17.661	10.53	10.18	17.92	38.63	50.00	11.37	Average
10	17.661	10.53	10.18	21.02	41.73	60.00	18.27	QP
11	20.924	10.57	10.31	16.53	37.41	50.00	12.59	Average
12	20.924	10.57	10.31	24.16	45.04	60.00	14.96	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



	Freq. (MHz)	LISN Factor (db)	Cable Loss (db)	Reading dBuV	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.195	10.16	9.93	20.68	40.77	53.80	13.03	Average
2	0.195	10.16	9.93	22.11	42.20	63.80	21.60	QP
3	0.260	10.15	9.95	11.81	31.91	51.42	19.51	Average
4	0.260	10.15	9.95	15.67	35.77	61.42	25.65	QP
5	0.330	10.13	9.88	5.23	25.24	49.44	24.20	Average
6	0.330	10.13	9.88	14.26	34.27	59.44	25.17	QP
7	0.396	10.10	9.90	3.56	23.56	47.95	24.39	Average
8	0.396	10.10	9.90	10.26	30.26	57.95	27.69	QP
9	16.226	10.52	10.11	18.45	39.08	50.00	10.92	Average
10	16.226	10.52	10.11	22.15	42.78	60.00	17.22	QP
11	17.661	10.59	10.18	19.33	40.10	50.00	9.90	Average
12	17.661	10.59	10.18	22.32	43.09	60.00	16.91	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. If the average limit is met when using a quasi-peak detector,
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

10. RADIATED EMISSIONS

10.1. Limit

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	$2400/F(\text{kHz})$	300
0.490-1.705	$24000/F(\text{kHz})$	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

15.205 Restricted frequency band

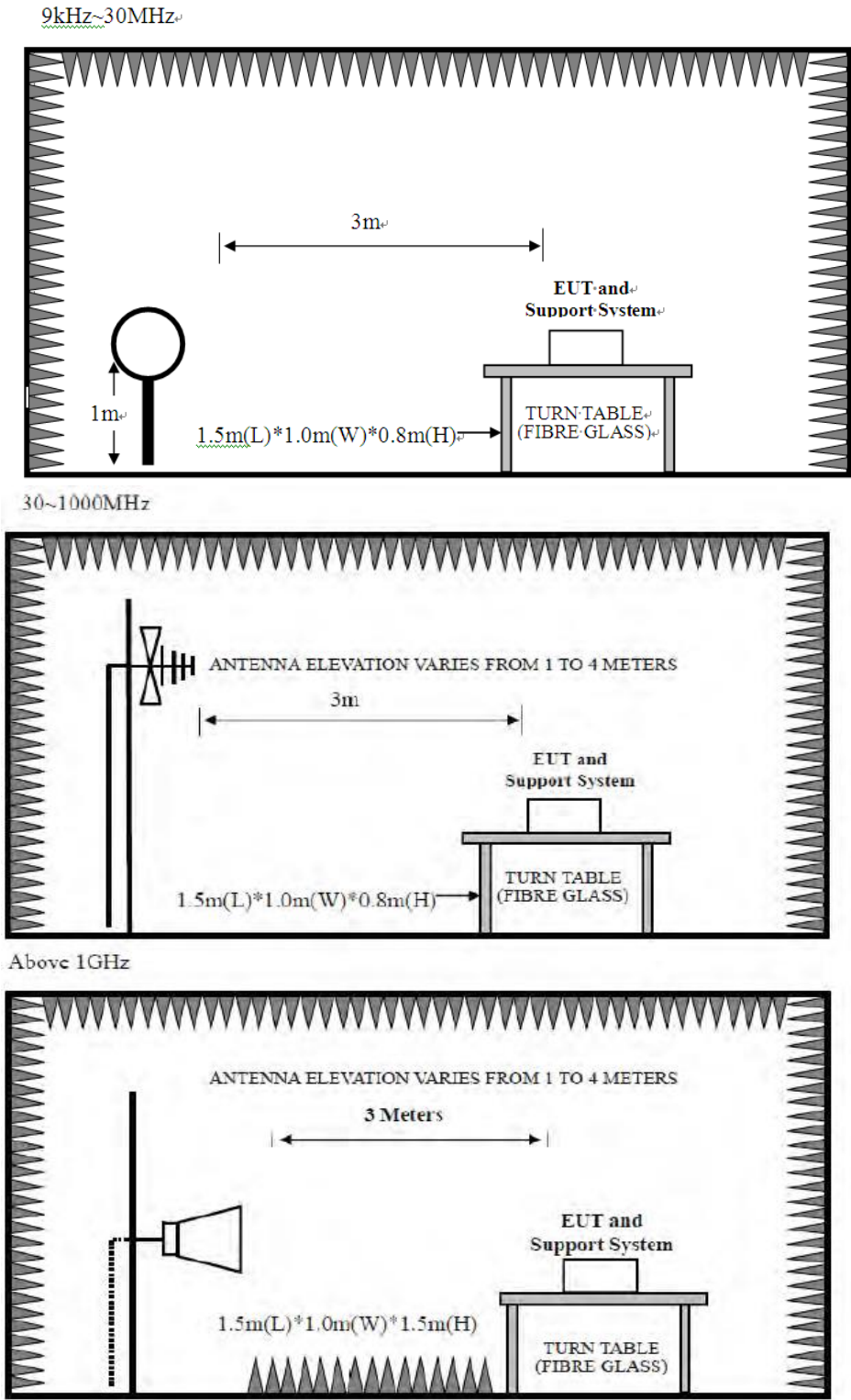
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

Note:

1. $\text{dB}\mu\text{V/m} = 20\text{Log}(\mu\text{V/m})$
2. Above 1GHz the formula is used to convert the EIRP to field strength

$$E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{m}]) + 104.77,$$
 where E is field strength and d is distance at which the field strength limit is specified in the applicable requirements.
 for example, 3m field strength($\text{dB}\mu\text{V/m}$)= $\text{EIRP}-20\log(3)+104.77=\text{EIRP}+95.2$

10.2. Test Setup



10.3.Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz

Spectrum Parameters	Setting
RBW	9KHz
VBW	9KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle $\geq 98\%$, VBW=10Hz Duty cycle $< 98\%$, VBW $\geq 1/T$ Video bandwidth mode=RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note : T is the on-time time of the duty cycle,when EUT transmit continuously with maximum output power,unit is seconds. reference section 2.7 for the on-time time.

10.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters in accordance with section 6.3.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.
- i. Refer to section 10: Appendix E

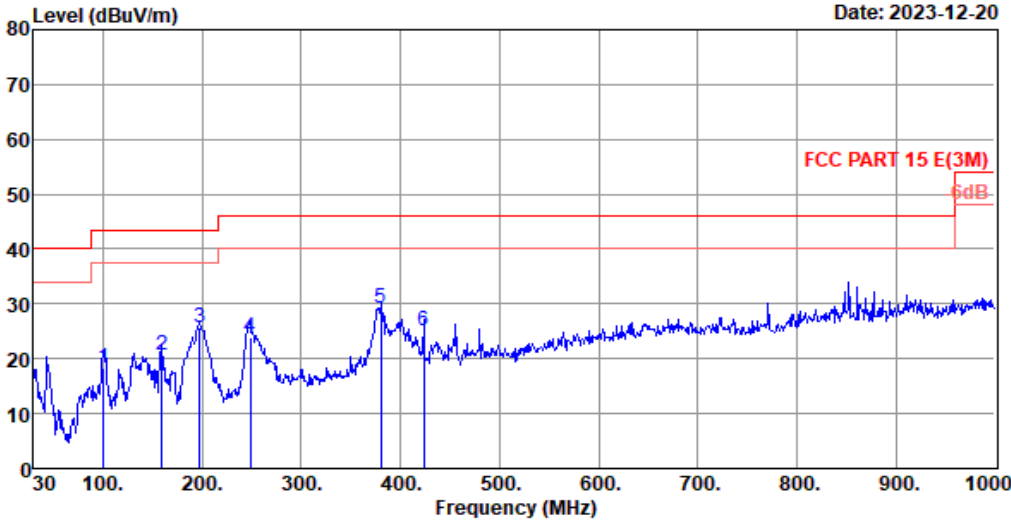
10.5.Test Result

Radiated Emissions Below 1GHz

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Data: 77 File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (78) Date: 2023-12-20



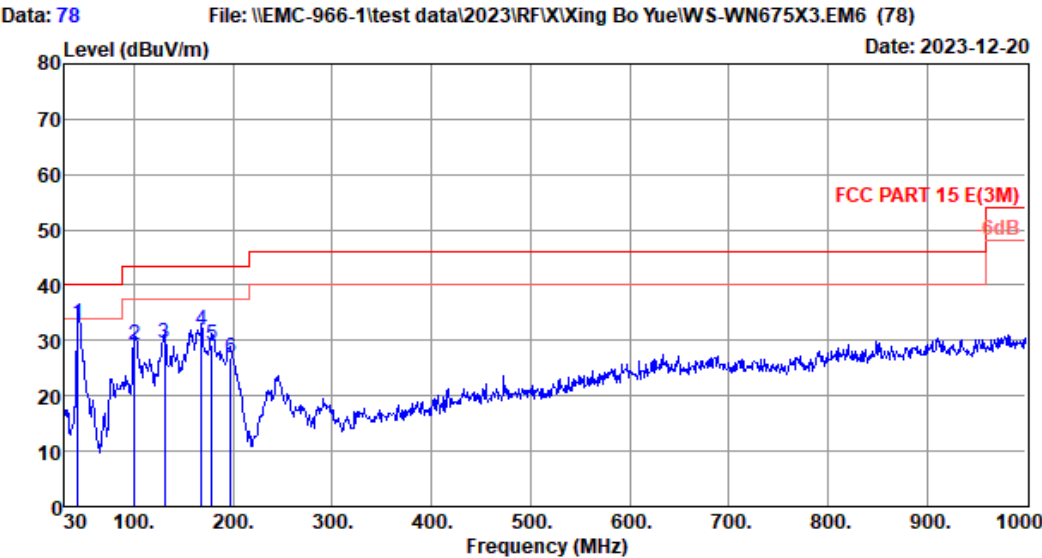
Site no. : 1# 966 Chamber Data no. : 77
Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:21.7°C.Humi:58%;Press:101.1KPa
Engineer : DCY
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	100.81	10.50	1.42	6.24	18.16	43.50	25.34	QP
2	159.01	11.70	1.81	7.03	20.54	43.50	22.96	QP
3	197.81	9.00	2.04	14.75	25.79	43.50	17.71	QP
4	248.25	12.22	2.31	9.49	24.02	46.00	21.98	QP
5	380.17	16.20	2.97	10.08	29.25	46.00	16.75	QP
6	423.82	17.16	3.15	4.81	25.12	46.00	20.88	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 78
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL
Limit : FCC PART 15 E(3M)
Env. / Ins. : Temp:21.7°C.Humi:58%;Press:101.1KPa
Engineer : DCY
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : TX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	43.58	11.80	0.88	20.34	33.02	40.00	6.98	QP
2	100.81	10.50	1.42	17.34	29.26	43.50	14.24	QP
3	130.88	11.80	1.63	16.12	29.55	43.50	13.95	QP
4	167.74	10.50	1.86	19.65	32.01	43.50	11.49	QP
5	178.41	9.20	1.92	18.15	29.27	43.50	14.23	QP
6	197.81	9.00	2.04	15.76	26.80	43.50	16.70	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

- Note:
- 1. The amplitude of 9KHz to 30MHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
 - 2. All channels had been pre-test,only the worst case was reported.



Radiated Emissions Above 1G

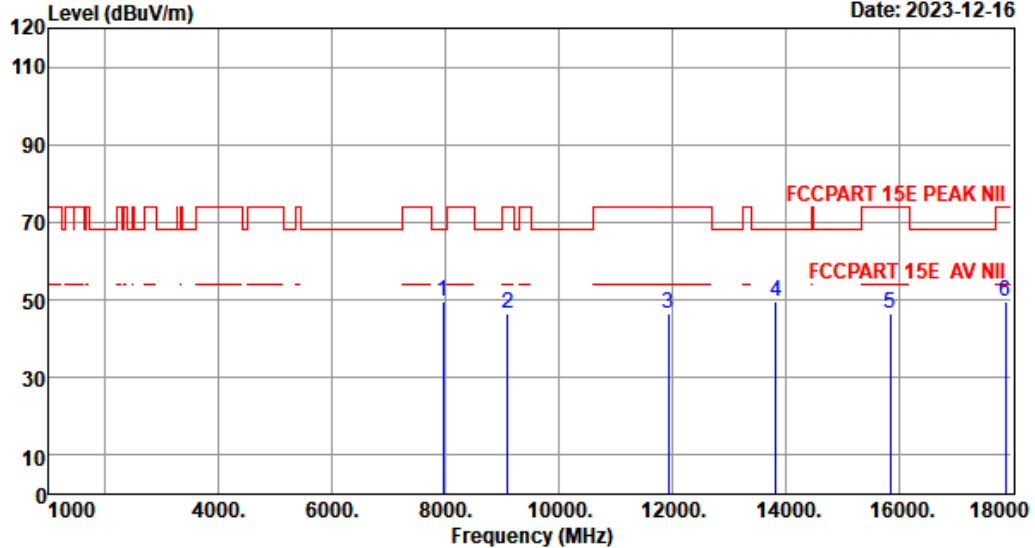
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Data: 103

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 103
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 5965MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7953.00	36.76	6.90	44.01	49.98	49.63	68.20	18.57	Peak
2	9092.00	38.02	7.78	43.43	44.02	46.39	74.00	27.61	Peak
3	11930.00	38.81	8.79	42.25	41.16	46.51	74.00	27.49	Peak
4	13835.00	39.95	9.68	40.80	40.82	49.65	68.20	18.55	Peak
5	15858.00	38.04	10.59	43.99	42.02	46.66	74.00	27.34	Peak
6	17895.00	41.25	12.36	42.85	38.66	49.42	74.00	24.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

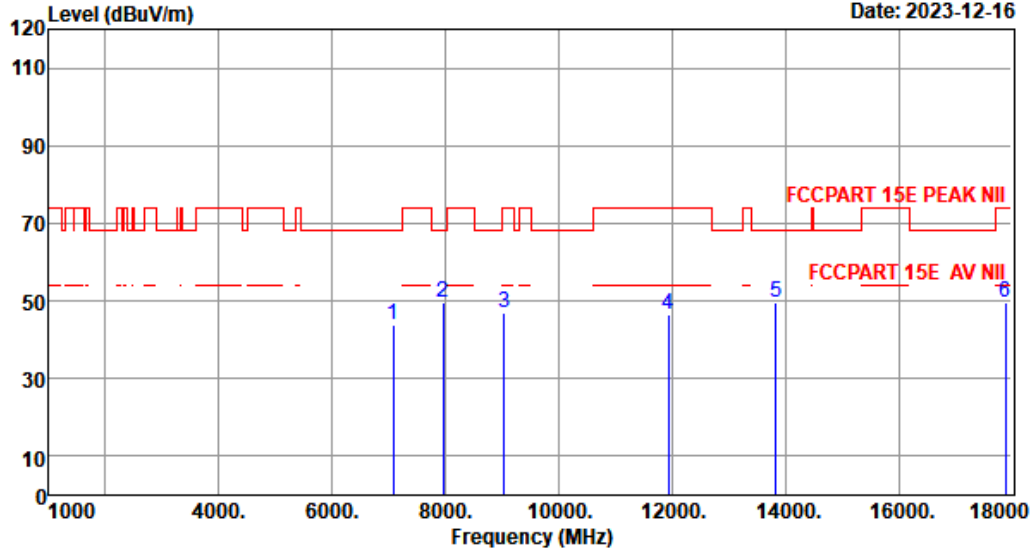
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Data: 104

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 104
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 5965MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7086.00	36.07	6.63	44.09	45.21	43.82	68.20	24.38	Peak
2	7953.00	36.76	6.90	44.01	49.98	49.63	68.20	18.57	Peak
3	9041.00	38.01	7.78	43.41	44.38	46.76	74.00	27.24	Peak
4	11930.00	38.81	8.79	42.25	41.16	46.51	74.00	27.49	Peak
5	13835.00	39.95	9.68	40.80	40.82	49.65	68.20	18.55	Peak
6	17895.00	41.25	12.36	42.85	38.66	49.42	74.00	24.58	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

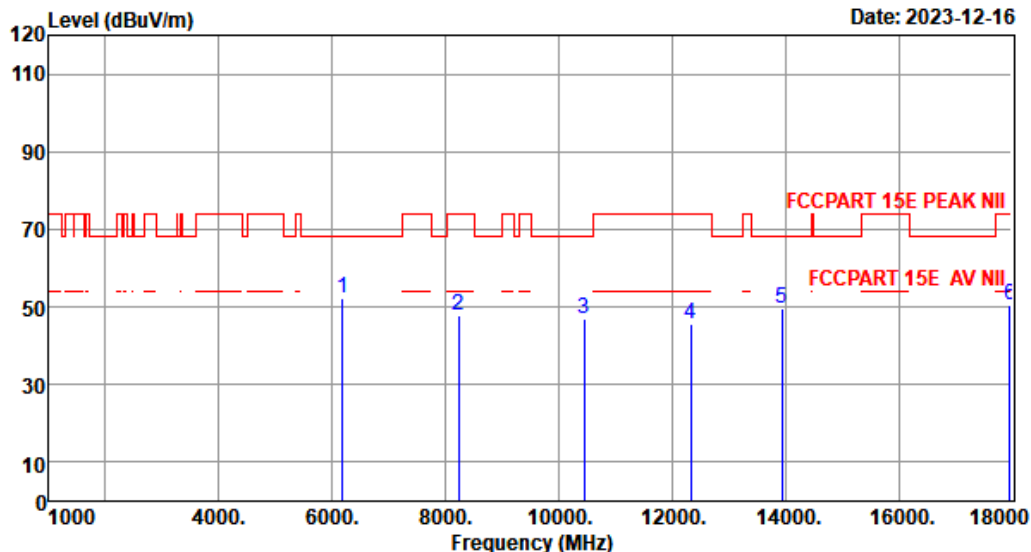
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Data: 105

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



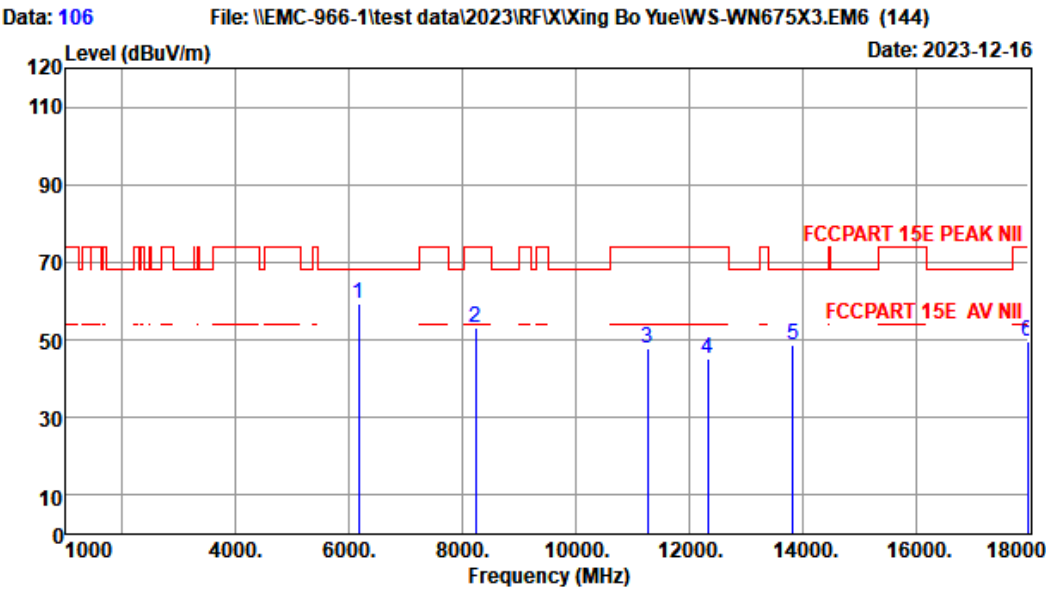
Site no. : 1# 966 Chamber Data no. : 105
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6165MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6185.00	34.29	6.24	44.10	55.99	52.42	68.20	15.78	Peak
2	8225.00	37.07	7.11	43.87	47.70	48.01	74.00	25.99	Peak
3	10452.00	38.52	7.99	43.43	43.72	46.80	68.20	21.40	Peak
4	12330.00	39.10	8.97	41.75	39.37	45.69	74.00	28.31	Peak
5	13937.00	39.98	9.74	40.80	40.48	49.40	68.20	18.80	Peak
6	17966.00	41.49	12.42	42.75	39.48	50.64	74.00	23.36	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 106
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6165MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6168.00	34.25	6.23	44.10	63.12	59.50	68.20	8.70	Peak
2	8225.00	37.07	7.11	43.87	53.01	53.32	74.00	20.68	Peak
3	11268.00	38.87	8.41	42.78	43.25	47.75	74.00	26.25	Peak
4	12330.00	39.10	8.97	41.75	38.94	45.26	74.00	28.74	Peak
5	13835.00	39.95	9.68	40.80	39.93	48.76	68.20	19.44	Peak
6	17983.00	41.54	12.44	42.73	38.47	49.72	74.00	24.28	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

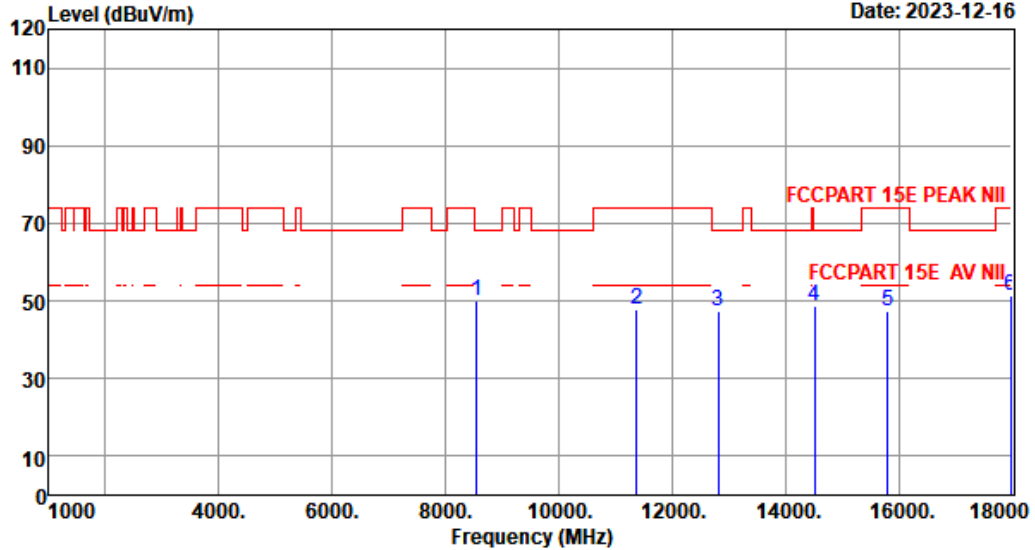
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Data: 107

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 107
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6405MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8548.00	37.46	7.39	43.67	48.76	49.94	68.20	18.26	Peak
2	11370.00	38.86	8.47	42.70	43.41	48.04	74.00	25.96	Peak
3	12810.00	39.53	9.18	41.06	39.61	47.26	68.20	20.94	Peak
4	14515.00	39.74	10.01	42.07	41.13	48.81	68.20	19.39	Peak
5	15807.00	38.13	10.57	43.95	42.73	47.48	74.00	26.52	Peak
6	17983.00	41.54	12.44	42.73	40.25	51.50	74.00	22.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

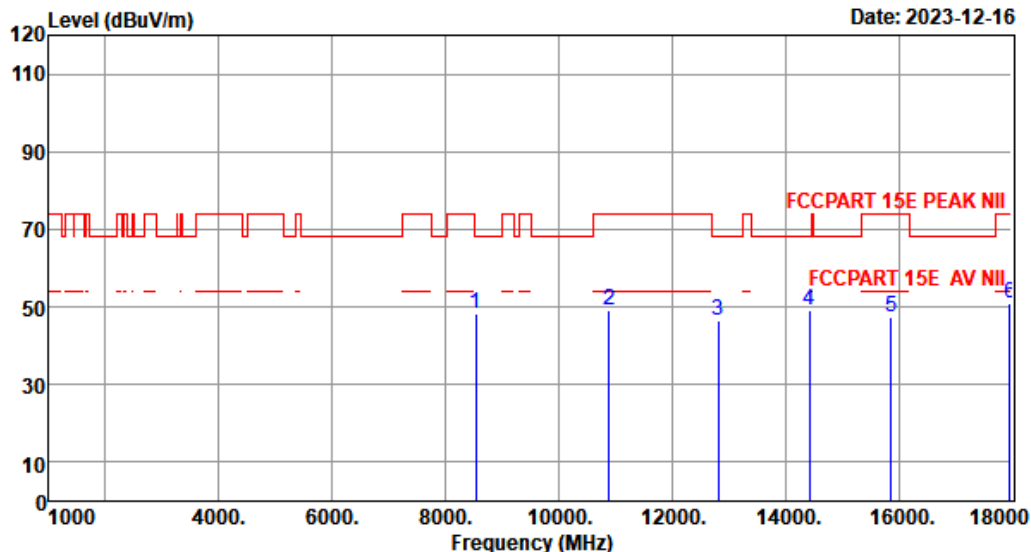
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Data: 108

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 108
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6405MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8531.00	37.44	7.37	43.68	46.92	48.05	68.20	20.15	Peak
2	10894.00	38.83	8.21	43.08	44.97	48.93	74.00	25.07	Peak
3	12810.00	39.53	9.18	41.06	38.85	46.50	68.20	21.70	Peak
4	14430.00	39.78	9.97	41.86	41.16	49.05	68.20	19.15	Peak
5	15875.00	38.01	10.59	44.00	42.99	47.59	74.00	26.41	Peak
6	17966.00	41.49	12.42	42.75	39.61	50.77	74.00	23.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

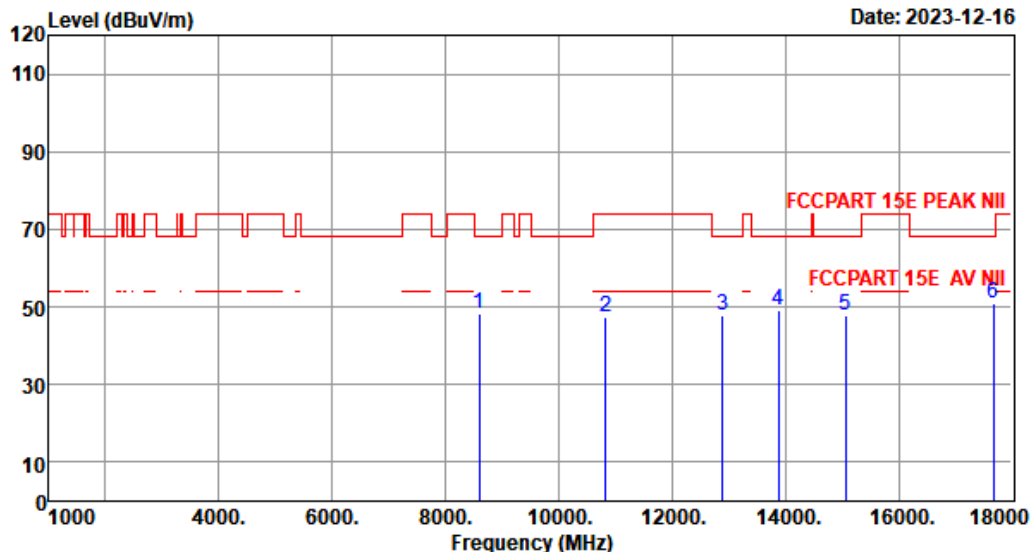
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Data: 109

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 109
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6445MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8599.00	37.52	7.43	43.64	46.92	48.23	68.20	19.97	Peak
2	10826.00	38.78	8.18	43.14	43.76	47.58	74.00	26.42	Peak
3	12890.00	39.60	9.21	40.97	39.88	47.72	68.20	20.48	Peak
4	13886.00	39.97	9.71	40.80	40.27	49.15	68.20	19.05	Peak
5	15059.00	39.40	10.27	43.34	41.59	47.92	68.20	20.28	Peak
6	17677.00	40.53	12.17	43.18	41.23	50.75	68.20	17.45	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

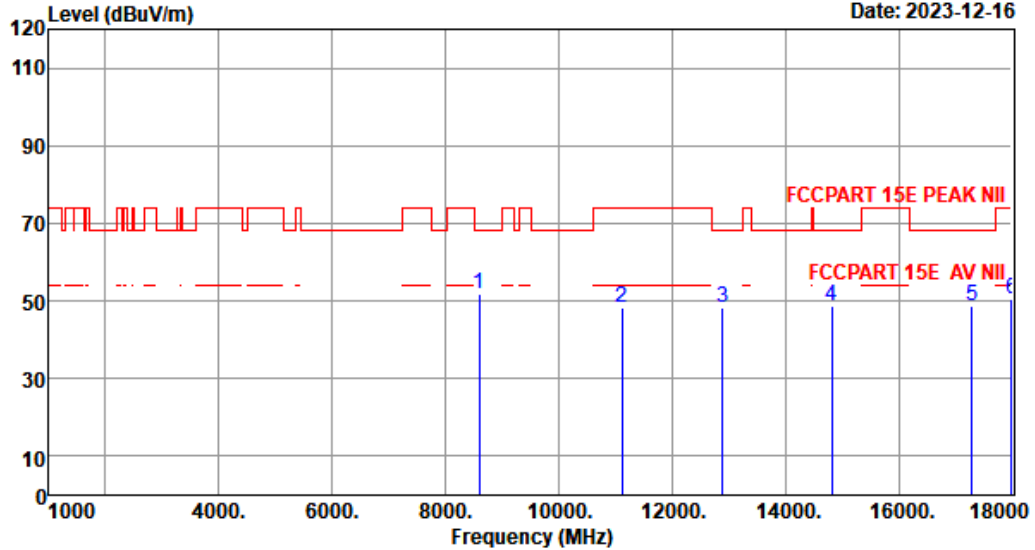
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Data: 110

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

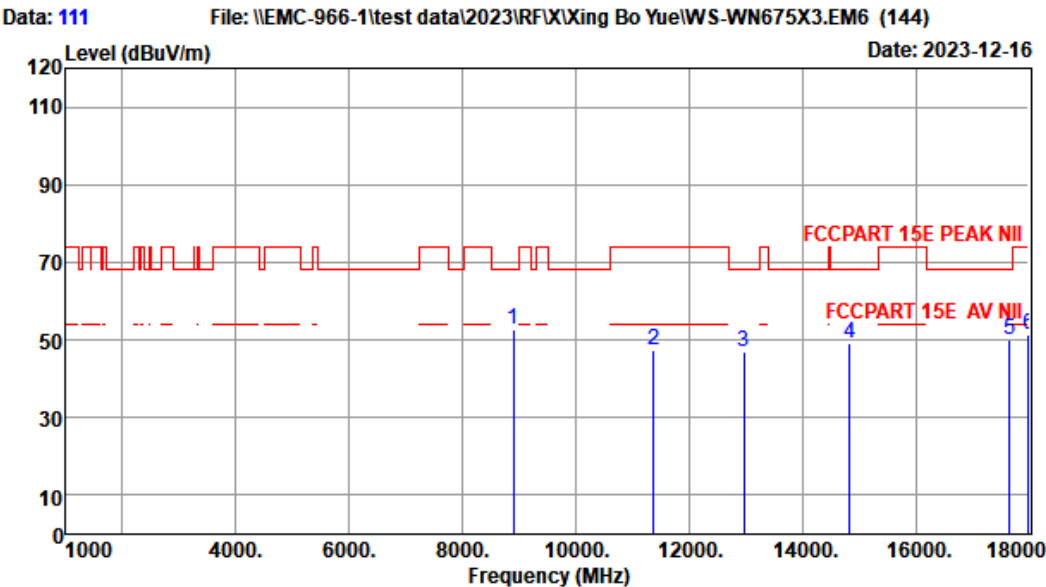
Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 110
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6445MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8599.00	37.52	7.43	43.64	50.49	51.80	68.20	16.40	Peak
2	11115.00	38.89	8.33	42.91	43.93	48.24	74.00	25.76	Peak
3	12890.00	39.60	9.21	40.97	40.36	48.20	68.20	20.00	Peak
4	14821.00	39.59	10.16	42.83	41.79	48.71	68.20	19.49	Peak
5	17303.00	39.30	11.84	43.74	41.50	48.90	68.20	19.30	Peak
6	18000.00	41.60	12.45	42.70	39.23	50.58	74.00	23.42	Peak

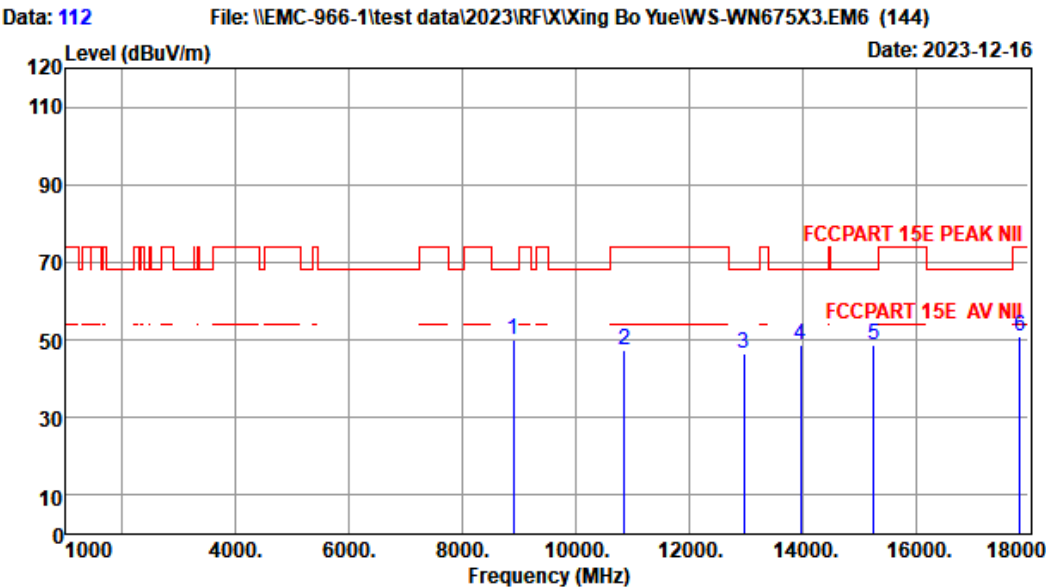
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 111
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6485MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8905.00	37.89	7.69	43.46	50.55	52.67	68.20	15.53	Peak
2	11370.00	38.86	8.47	42.70	42.54	47.17	74.00	26.83	Peak
3	12970.00	39.67	9.25	40.85	38.74	46.81	68.20	21.39	Peak
4	14838.00	39.58	10.17	42.88	42.07	48.94	68.20	19.26	Peak
5	17660.00	40.48	12.15	43.21	40.67	50.09	68.20	18.11	Peak
6	18000.00	41.60	12.45	42.70	39.95	51.30	74.00	22.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 1# 966 Chamber Data no. : 112
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6485MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8905.00	37.89	7.69	43.46	47.80	49.92	68.20	18.28	Peak
2	10860.00	38.80	8.19	43.11	43.44	47.32	74.00	26.68	Peak
3	12970.00	39.67	9.25	40.85	38.42	46.49	68.20	21.71	Peak
4	13971.00	39.99	9.75	40.80	39.63	48.57	68.20	19.63	Peak
5	15263.00	39.05	10.35	43.51	42.71	48.60	68.20	19.60	Peak
6	17847.00	41.10	12.32	42.93	40.46	50.95	74.00	23.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

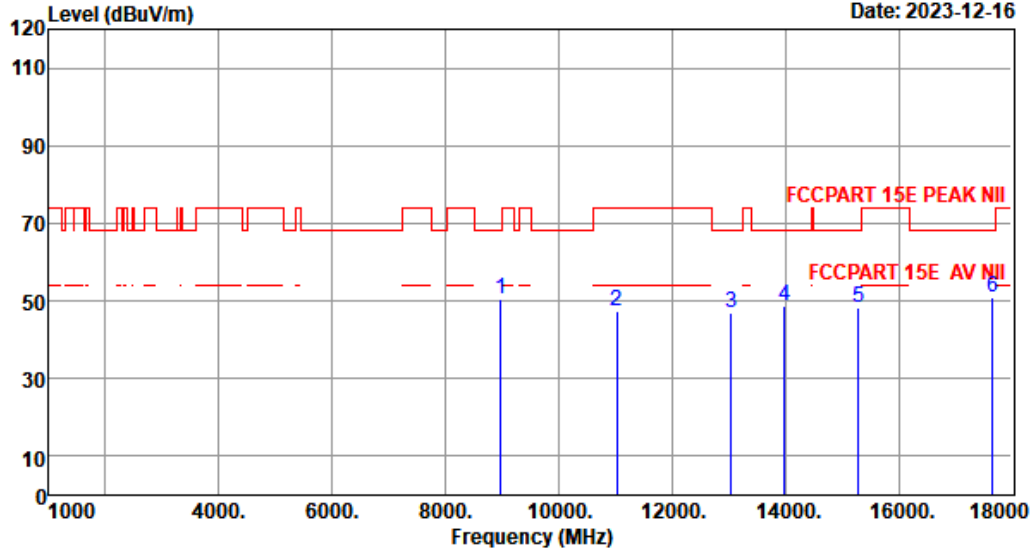
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Data: 113

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

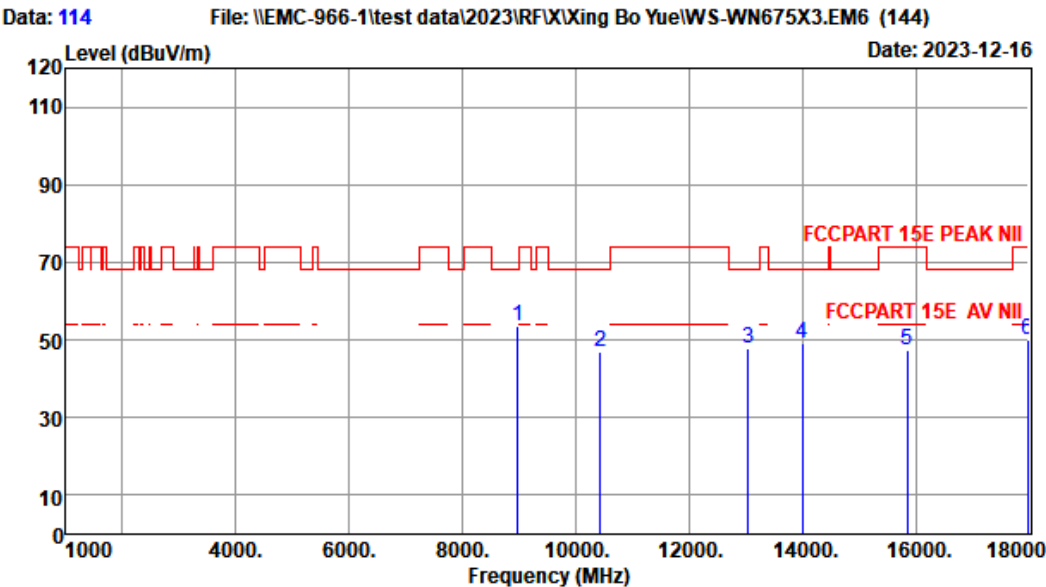
Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 113
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6525MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8973.00	37.97	7.75	43.42	48.35	50.65	68.20	17.55	Peak
2	11030.00	38.90	8.28	42.97	43.19	47.40	74.00	26.60	Peak
3	13050.00	39.72	9.29	40.80	38.73	46.94	68.20	21.26	Peak
4	13988.00	40.00	9.76	40.80	39.91	48.87	68.20	19.33	Peak
5	15297.00	39.00	10.36	43.53	42.47	48.30	68.20	19.90	Peak
6	17660.00	40.48	12.15	43.21	41.47	50.89	68.20	17.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 114
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6525MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8973.00	37.97	7.75	43.42	51.09	53.39	68.20	14.81	Peak
2	10435.00	38.50	7.99	43.45	43.99	47.03	68.20	21.17	Peak
3	13050.00	39.72	9.29	40.80	39.60	47.81	68.20	20.39	Peak
4	14005.00	40.00	9.77	40.80	40.10	49.07	68.20	19.13	Peak
5	15858.00	38.04	10.59	43.99	42.58	47.22	74.00	26.78	Peak
6	17983.00	41.54	12.44	42.73	38.96	50.21	74.00	23.79	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

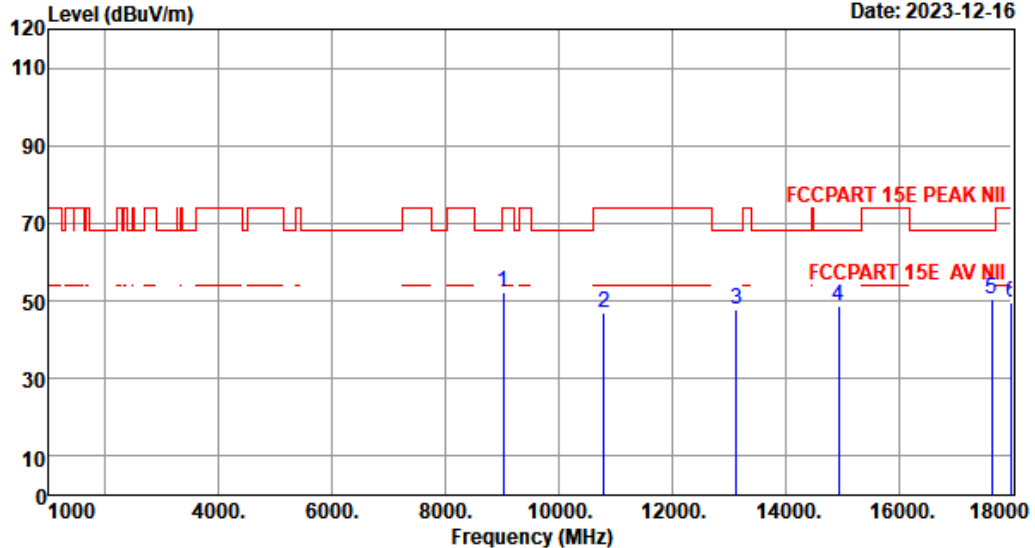
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Data: 115

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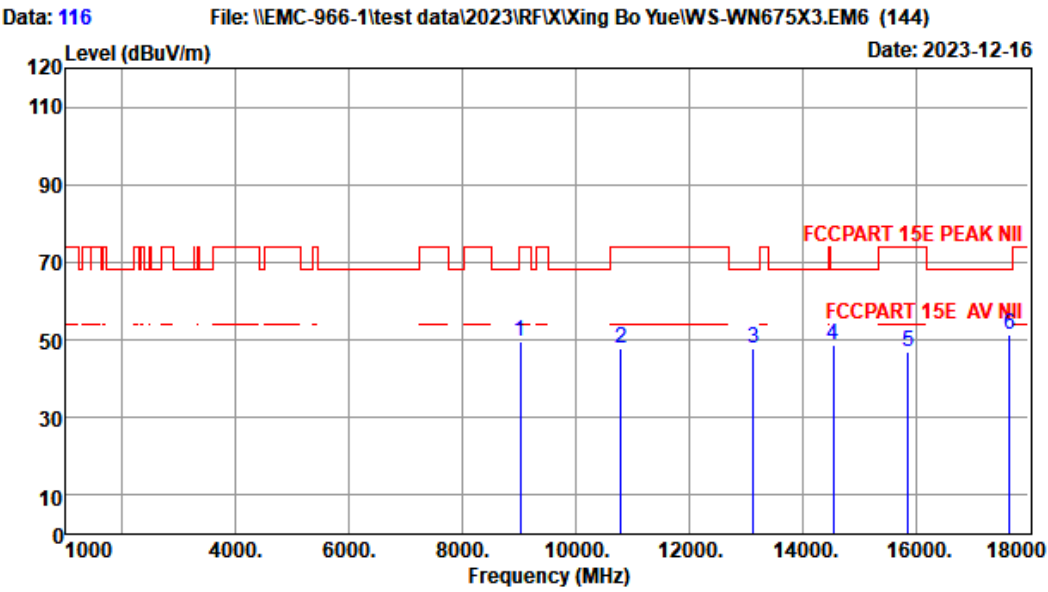
Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 115
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6565MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9024.00	38.00	7.78	43.41	49.70	52.07	74.00	21.93	Peak
2	10792.00	38.75	8.16	43.16	43.20	46.95	74.00	27.05	Peak
3	13130.00	39.74	9.33	40.80	39.56	47.83	68.20	20.37	Peak
4	14940.00	39.53	10.22	43.13	41.91	48.53	68.20	19.67	Peak
5	17643.00	40.42	12.14	43.23	41.22	50.55	68.20	17.65	Peak
6	18000.00	41.60	12.45	42.70	38.14	49.49	74.00	24.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 116
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6565MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9024.00	38.00	7.78	43.41	47.01	49.38	74.00	24.62	Peak
2	10792.00	38.75	8.16	43.16	44.12	47.87	74.00	26.13	Peak
3	13130.00	39.74	9.33	40.80	39.73	48.00	68.20	20.20	Peak
4	14549.00	39.73	10.03	42.16	41.02	48.62	68.20	19.58	Peak
5	15875.00	38.01	10.59	44.00	42.24	46.84	74.00	27.16	Peak
6	17660.00	40.48	12.15	43.21	41.85	51.27	68.20	16.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

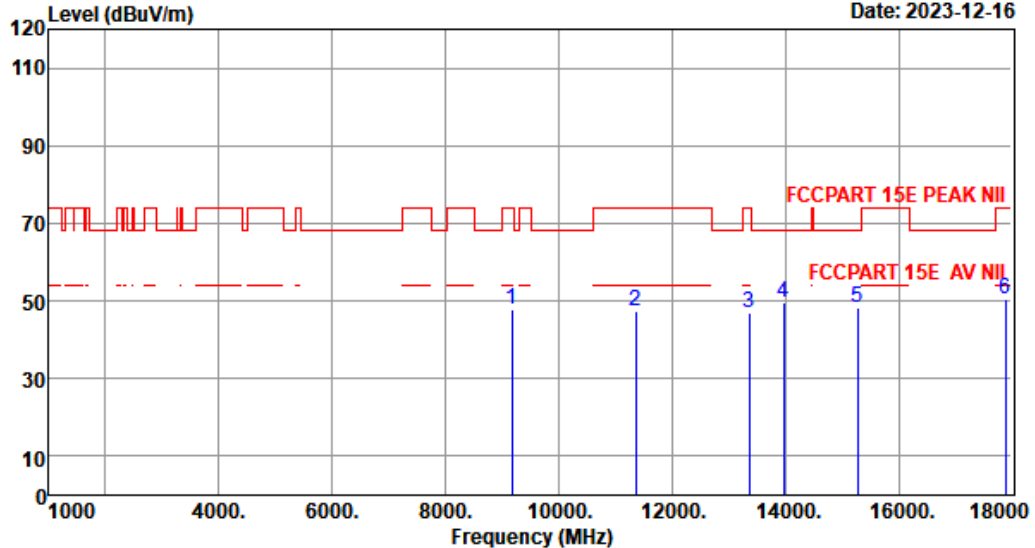
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File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 117
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6685MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9177.00	38.04	7.78	43.47	45.52	47.87	74.00	26.13	Peak
2	11353.00	38.86	8.46	42.72	42.77	47.37	74.00	26.63	Peak
3	13370.00	39.81	9.45	40.80	38.50	46.96	74.00	27.04	Peak
4	13971.00	39.99	9.75	40.80	40.60	49.54	68.20	18.66	Peak
5	15280.00	39.02	10.36	43.52	42.23	48.09	68.20	20.11	Peak
6	17881.00	41.21	12.35	42.88	39.90	50.58	74.00	23.42	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

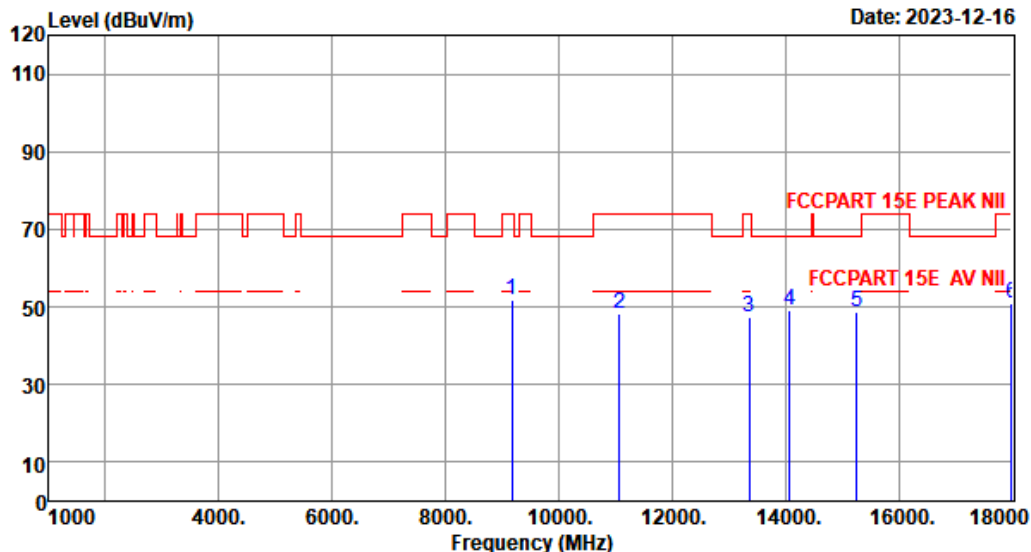
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Data: 118

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

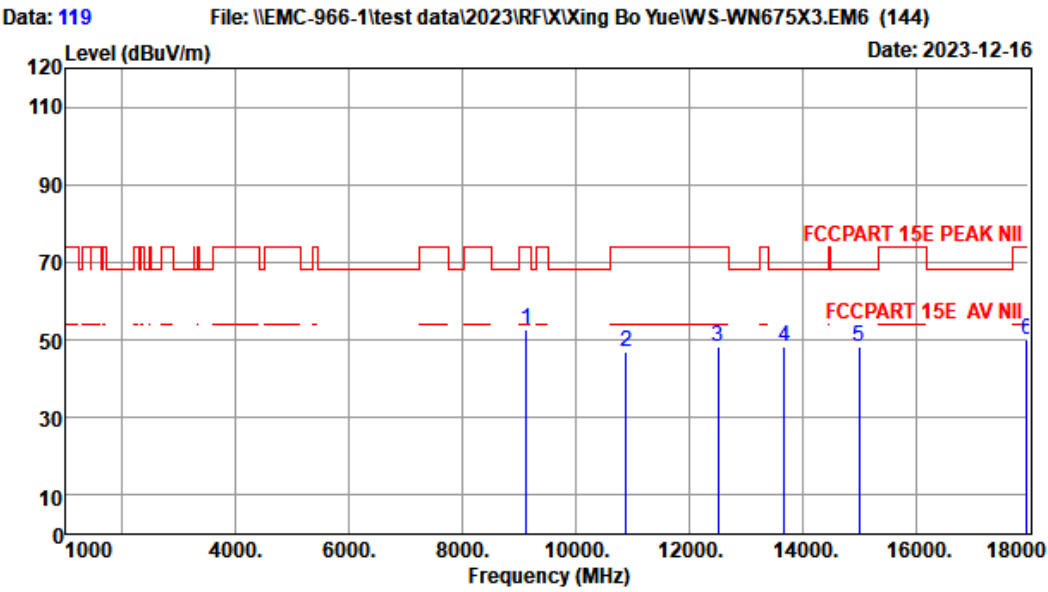
Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 118
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6685MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9177.00	38.04	7.78	43.47	49.66	52.01	74.00	21.99	Peak
2	11064.00	38.89	8.30	42.95	43.81	48.05	74.00	25.95	Peak
3	13370.00	39.81	9.45	40.80	39.06	47.52	74.00	26.48	Peak
4	14073.00	39.96	9.80	40.97	40.31	49.10	68.20	19.10	Peak
5	15263.00	39.05	10.35	43.51	42.92	48.81	68.20	19.39	Peak
6	18000.00	41.60	12.45	42.70	39.62	50.97	74.00	23.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 119
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6845MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9126.00	38.03	7.78	43.45	50.48	52.84	74.00	21.16	Peak
2	10894.00	38.83	8.21	43.08	43.20	47.16	74.00	26.84	Peak
3	12509.00	39.26	9.05	41.49	41.58	48.40	74.00	25.60	Peak
4	13690.00	39.91	9.61	40.80	39.68	48.40	68.20	19.80	Peak
5	15008.00	39.49	10.25	43.30	41.96	48.40	68.20	19.80	Peak
6	17966.00	41.49	12.42	42.75	38.98	50.14	74.00	23.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

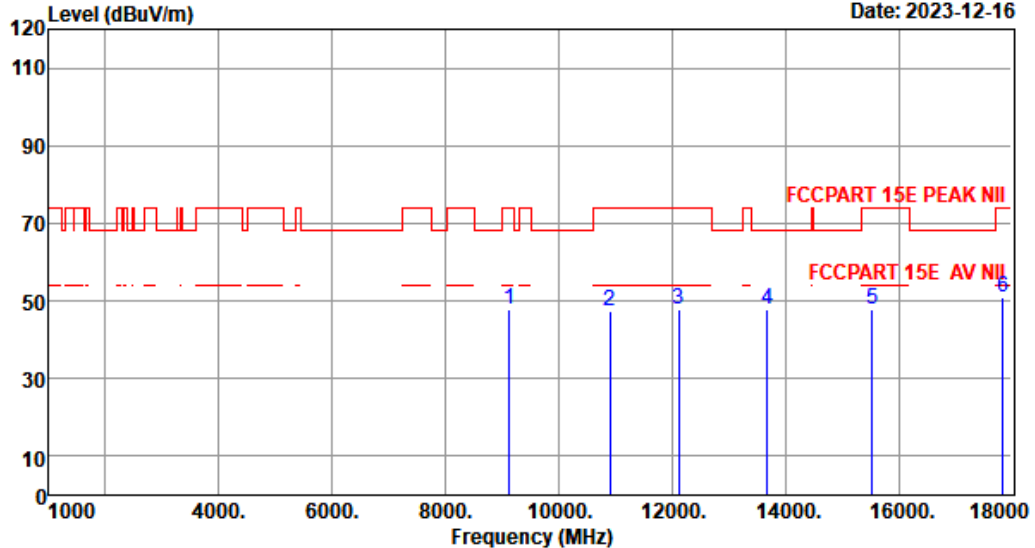
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File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 120
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6845MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9126.00	38.03	7.78	43.45	45.65	48.01	74.00	25.99	Peak
2	10911.00	38.84	8.22	43.07	43.31	47.30	74.00	26.70	Peak
3	12118.00	38.91	8.88	42.03	42.05	47.81	74.00	26.19	Peak
4	13690.00	39.91	9.61	40.80	39.07	47.79	68.20	20.41	Peak
5	15535.00	38.59	10.46	43.73	42.55	47.87	74.00	26.13	Peak
6	17847.00	41.10	12.32	42.93	40.35	50.84	74.00	23.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

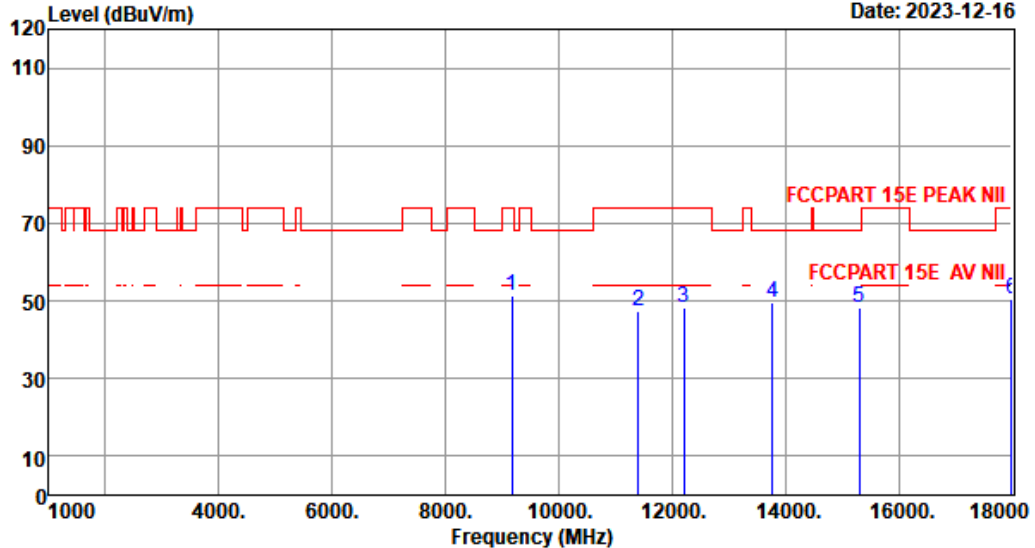
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Data: 121

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

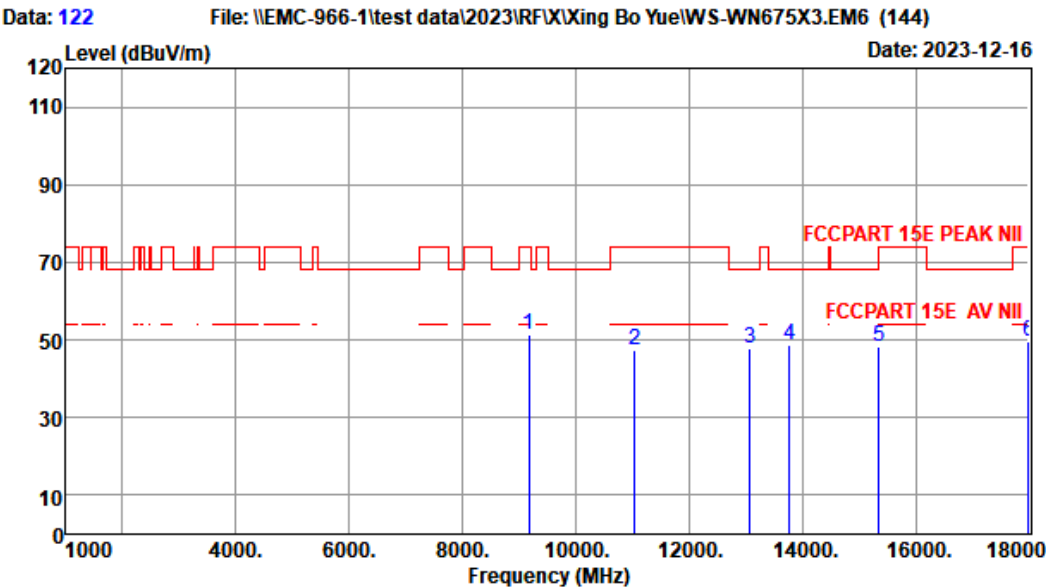
Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 121
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6885MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9177.00	38.04	7.78	43.47	48.99	51.34	74.00	22.66	Peak
2	11404.00	38.86	8.49	42.67	42.75	47.43	74.00	26.57	Peak
3	12203.00	38.98	8.92	41.92	42.30	48.28	74.00	25.72	Peak
4	13770.00	39.93	9.65	40.80	40.72	49.50	68.20	18.70	Peak
5	15314.00	38.97	10.37	43.55	42.42	48.21	68.20	19.99	Peak
6	18000.00	41.60	12.45	42.70	38.94	50.29	74.00	23.71	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 122
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6885MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9177.00	38.04	7.78	43.47	49.10	51.45	74.00	22.55	Peak
2	11047.00	38.90	8.29	42.96	43.26	47.49	74.00	26.51	Peak
3	13070.00	39.72	9.29	40.80	39.73	47.94	68.20	20.26	Peak
4	13770.00	39.93	9.65	40.80	39.92	48.70	68.20	19.50	Peak
5	15348.00	38.91	10.38	43.58	42.61	48.32	68.20	19.88	Peak
6	18000.00	41.60	12.45	42.70	38.42	49.77	74.00	24.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

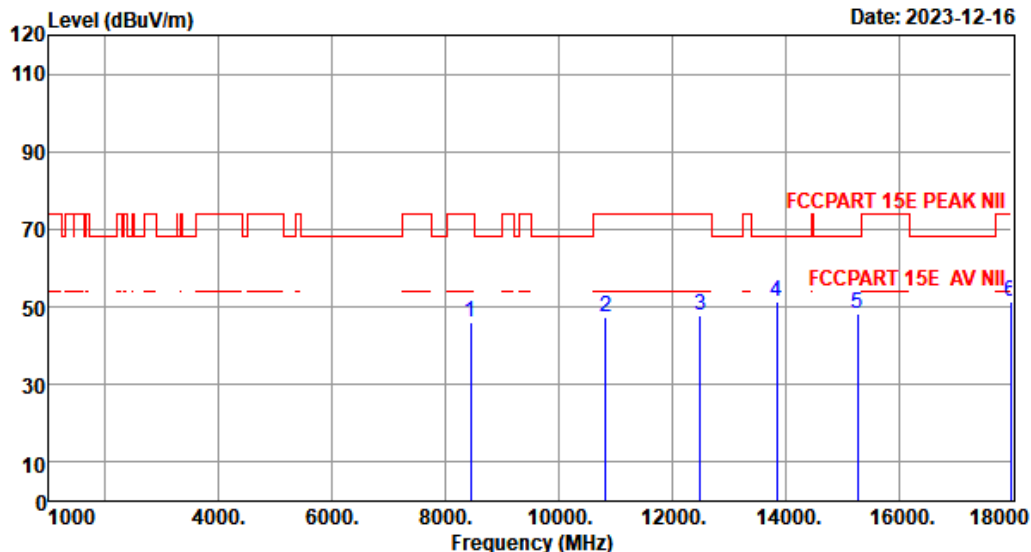
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Data: 123

File: \\EMC-966-1\\test data\\2023\\RF\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

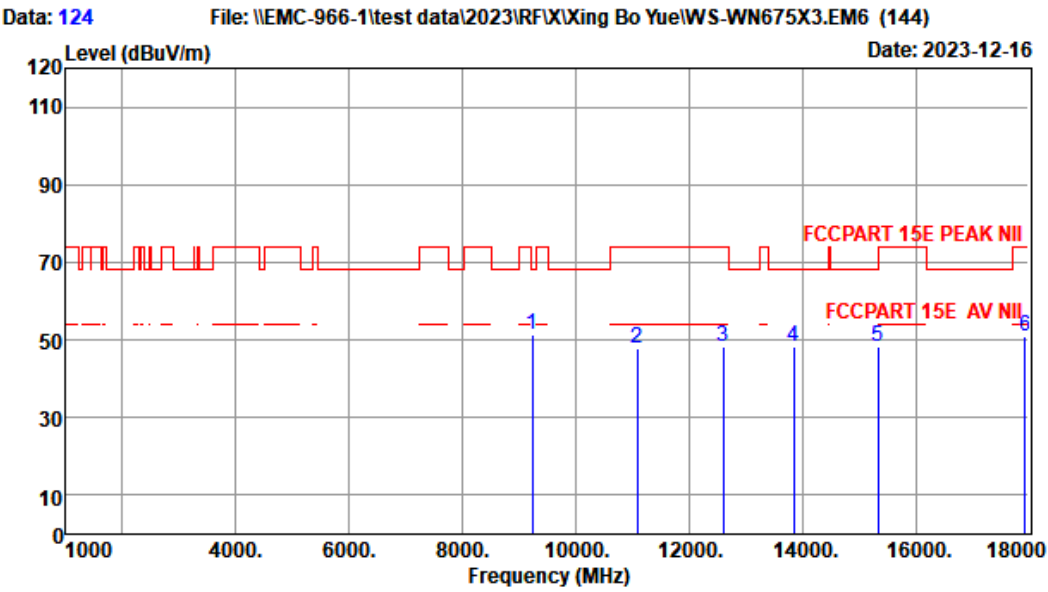
Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 123
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 6925MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	8446.00	37.34	7.30	43.74	45.14	46.04	74.00	27.96	Peak
2	10826.00	38.78	8.18	43.14	43.71	47.53	74.00	26.47	Peak
3	12492.00	39.24	9.04	41.51	41.27	48.04	74.00	25.96	Peak
4	13850.00	39.96	9.69	40.80	42.37	51.22	68.20	16.98	Peak
5	15280.00	39.02	10.36	43.52	42.31	48.17	68.20	20.03	Peak
6	17983.00	41.54	12.44	42.73	39.97	51.22	74.00	22.78	Peak

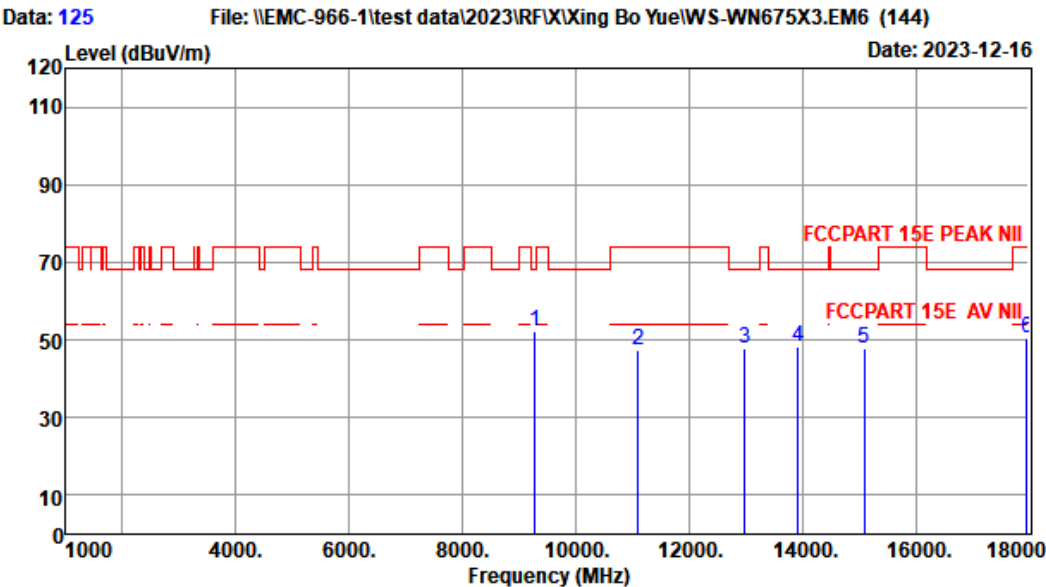
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 124
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6925MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9228.00	38.05	7.78	43.49	48.88	51.22	68.20	16.98	Peak
2	11081.00	38.89	8.31	42.93	43.61	47.88	74.00	26.12	Peak
3	12611.00	39.35	9.09	41.35	41.24	48.33	74.00	25.67	Peak
4	13850.00	39.96	9.69	40.80	39.45	48.30	68.20	19.90	Peak
5	15331.00	38.94	10.38	43.56	42.58	48.34	68.20	19.86	Peak
6	17932.00	41.38	12.39	42.80	40.14	51.11	74.00	22.89	Peak

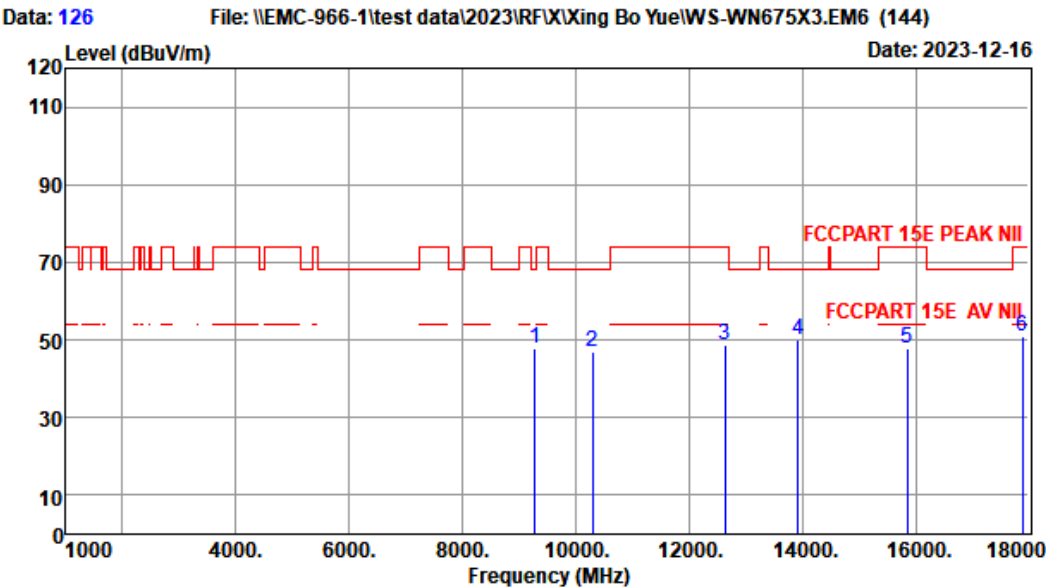
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.



Site no. : 1# 966 Chamber Data no. : 125
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6965MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9279.00	38.06	7.78	43.51	49.72	52.05	68.20	16.15	Peak
2	11098.00	38.89	8.32	42.92	43.23	47.52	74.00	26.48	Peak
3	12985.00	39.69	9.25	40.82	39.88	48.00	68.20	20.20	Peak
4	13930.00	39.98	9.74	40.80	39.56	48.48	68.20	19.72	Peak
5	15093.00	39.34	10.28	43.37	41.73	47.98	68.20	20.22	Peak
6	17966.00	41.49	12.42	42.75	39.45	50.61	74.00	23.39	Peak

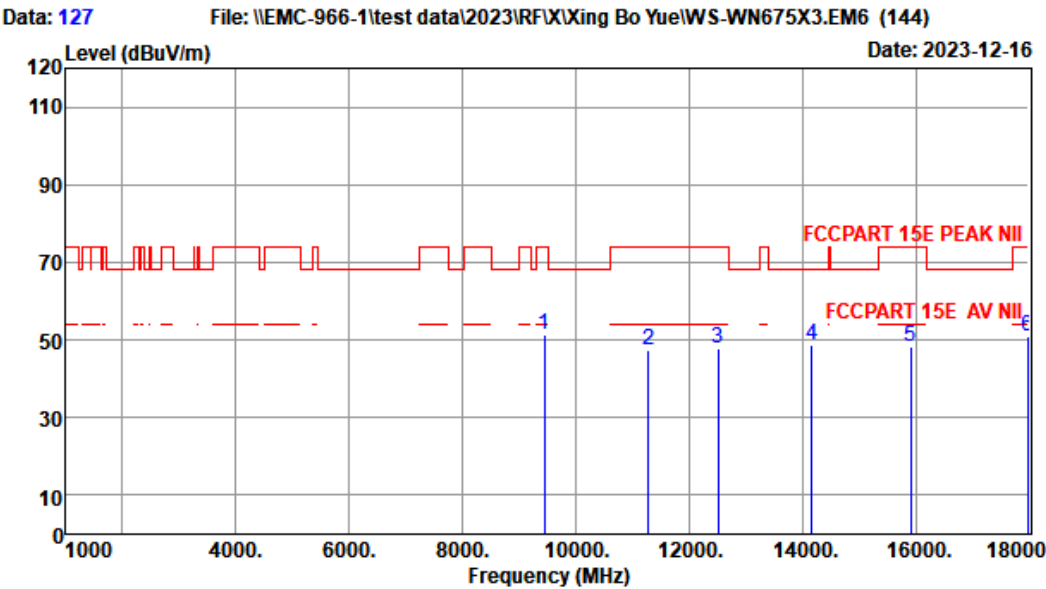
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 126
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 6965MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9279.00	38.06	7.78	43.51	45.64	47.97	68.20	20.23	Peak
2	10299.00	38.41	7.92	43.56	44.38	47.15	68.20	21.05	Peak
3	12628.00	39.37	9.10	41.32	41.64	48.79	74.00	25.21	Peak
4	13930.00	39.98	9.74	40.80	40.96	49.88	68.20	18.32	Peak
5	15858.00	38.04	10.59	43.99	43.15	47.79	74.00	26.21	Peak
6	17881.00	41.21	12.35	42.88	40.10	50.78	74.00	23.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.



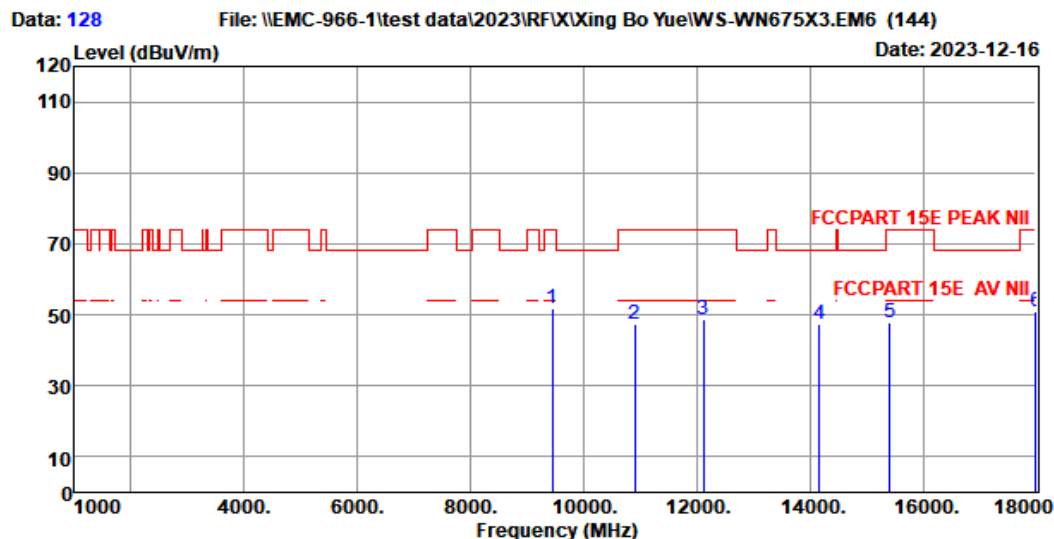
Site no. : 1# 966 Chamber Data no. : 127
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 7085MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9449.00	38.09	7.78	43.58	48.95	51.24	74.00	22.76	Peak
2	11285.00	38.87	8.42	42.77	43.01	47.53	74.00	26.47	Peak
3	12509.00	39.26	9.05	41.49	41.17	47.99	74.00	26.01	Peak
4	14170.00	39.92	9.85	41.22	39.94	48.49	68.20	19.71	Peak
5	15909.00	37.95	10.61	44.03	43.63	48.16	74.00	25.84	Peak
6	17983.00	41.54	12.44	42.73	39.67	50.92	74.00	23.08	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 128
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 7085MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	9449.00	38.09	7.78	43.58	49.71	52.00	74.00	22.00	Peak
2	10911.00	38.84	8.22	43.07	43.48	47.47	74.00	26.53	Peak
3	12118.00	38.91	8.88	42.03	42.77	48.53	74.00	25.47	Peak
4	14170.00	39.92	9.85	41.22	38.87	47.42	68.20	20.78	Peak
5	15416.00	38.79	10.41	43.63	42.43	48.00	74.00	26.00	Peak
6	18000.00	41.60	12.45	42.70	39.50	50.85	74.00	23.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

Note:

1. The amplitude of 18GHz to 40GHz spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.
2. All test mode had been pre-test, only Low/Middle/High Channel of the worst case modulation mode was reported

Band Edge

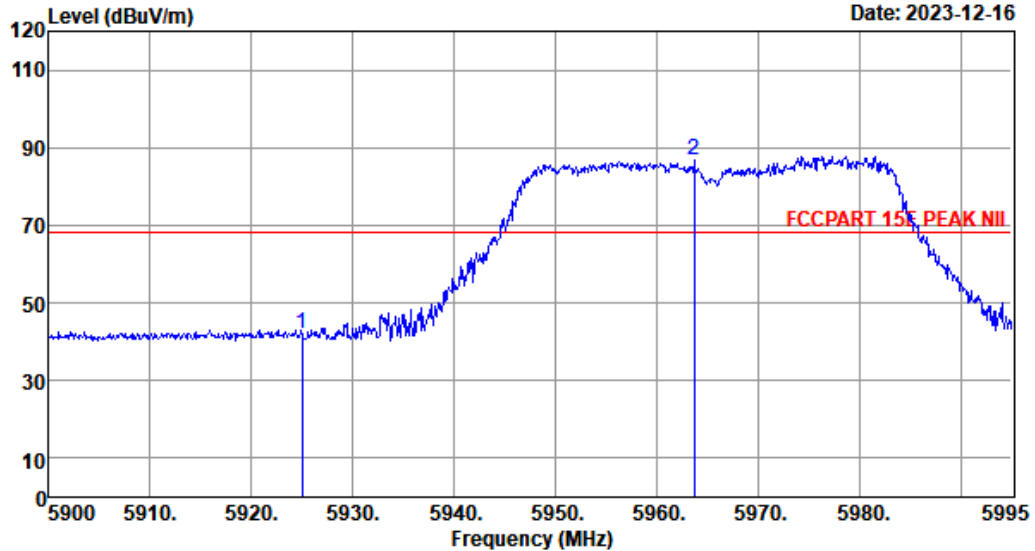
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Data: 129

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-16

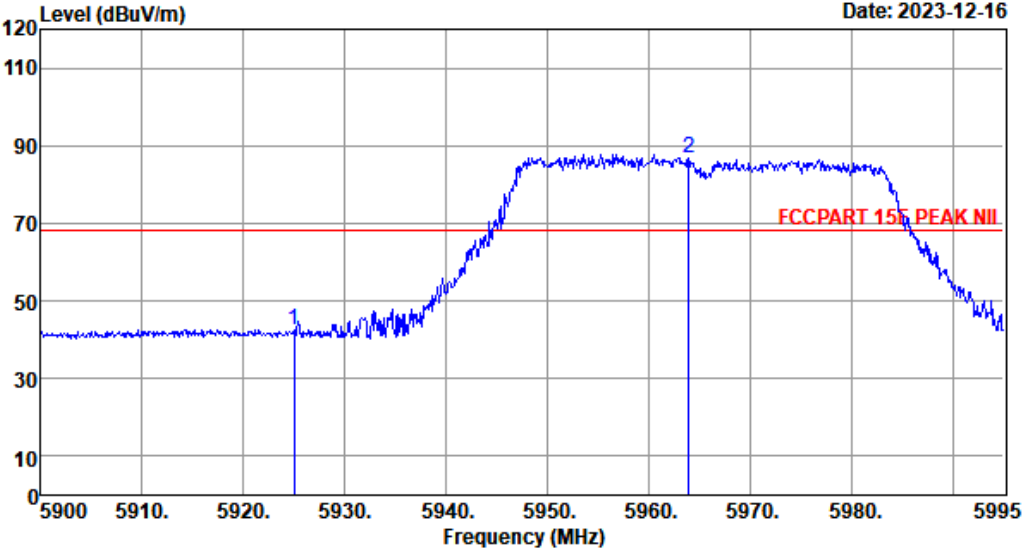


Site no. : 1# 966 Chamber Data no. : 129
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE40 TX 5965MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	46.22	42.04	68.20	26.16	Peak
2	5963.65	33.86	6.13	44.11	90.73	86.61	68.20	-18.41	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 130 File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)
Date: 2023-12-16

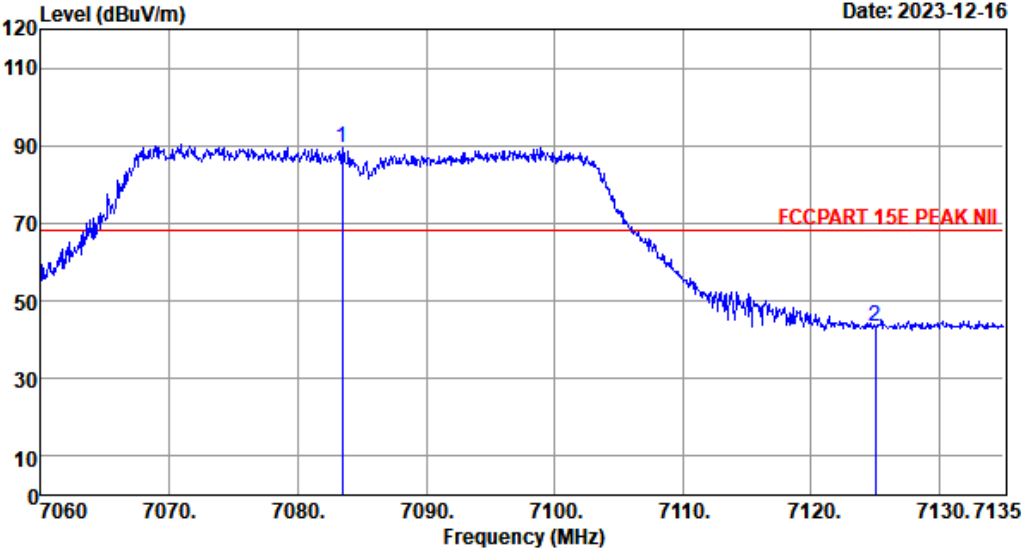


Site no. : 1# 966 Chamber Data no. : 130
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 5965MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	46.89	42.71	68.20	25.49	Peak
2	5963.94	33.86	6.13	44.11	91.08	86.96	68.20	-18.76	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

Data: 131 File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)
Date: 2023-12-16

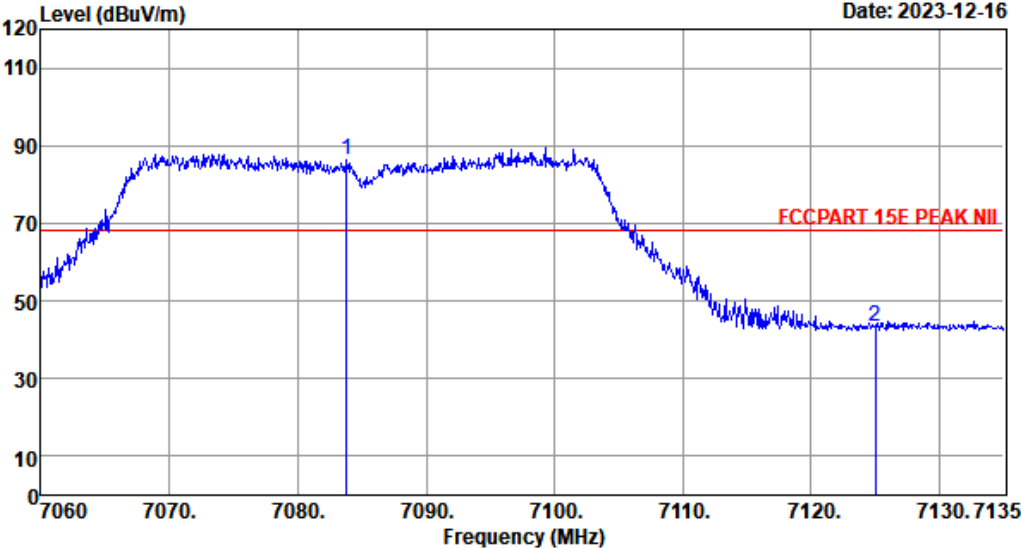


Site no. : site Data no. : 131
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 7085MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7083.48	36.07	6.63	44.09	90.64	89.25	68.20	-21.05	Peak
2	7125.00	36.10	6.64	44.09	44.68	43.33	68.20	24.87	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

Data: 132 File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144) Date: 2023-12-16



Site no. : 1# 966 Chamber Data no. : 132
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE40 TX 7085MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7083.78	36.07	6.63	44.09	87.91	86.52	68.20	-18.32	Peak
2	7125.00	36.10	6.64	44.09	44.82	43.47	68.20	24.73	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

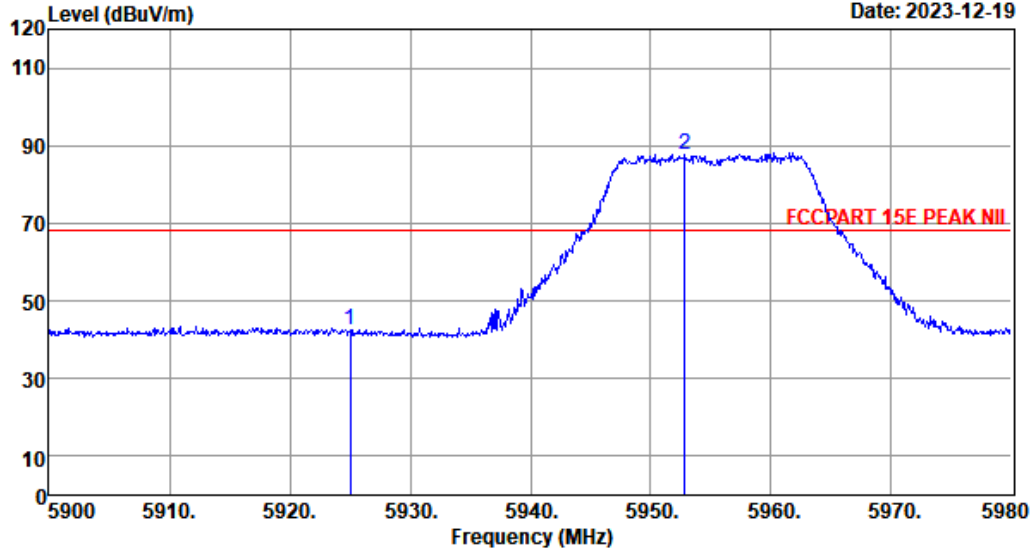
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Data: 133

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-19



Site no. : 1# 966 Chamber Data no. : 133
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE20 TX 5955MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	46.69	42.51	68.20	25.69	Peak
2	5952.80	33.85	6.12	44.11	91.85	87.71	68.20	-19.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

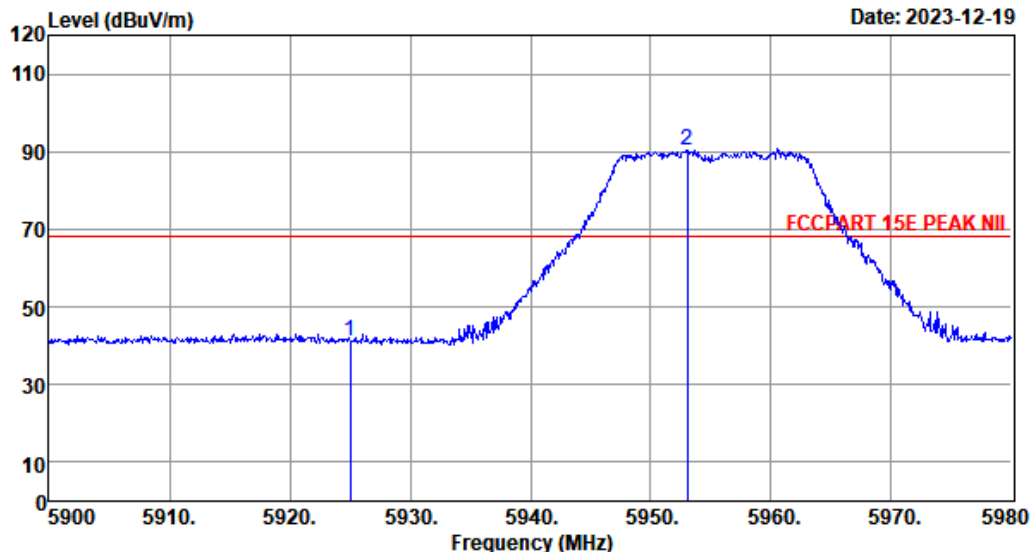
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Data: 134

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-19



Site no. : 1# 966 Chamber Data no. : 134
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE20 TX 5955MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	45.56	41.38	68.20	26.82	Peak
2	5953.04	33.85	6.12	44.11	94.45	90.31	68.20	-22.11	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

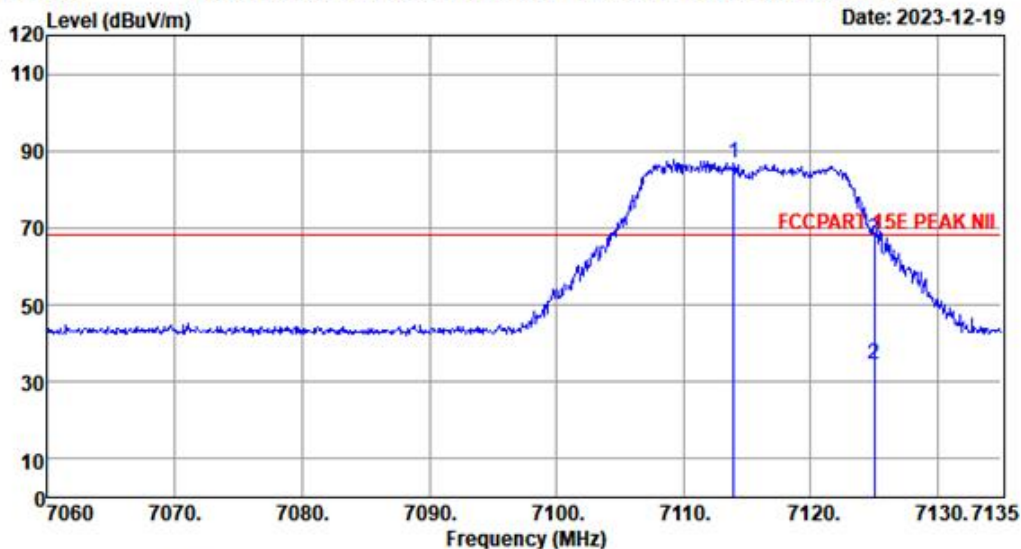
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Data: 135

File: \\EMC-966-1\test data\2023\RF\Xing Bo Yue\WS-WN675X3.EM6 (144)

Date: 2023-12-19

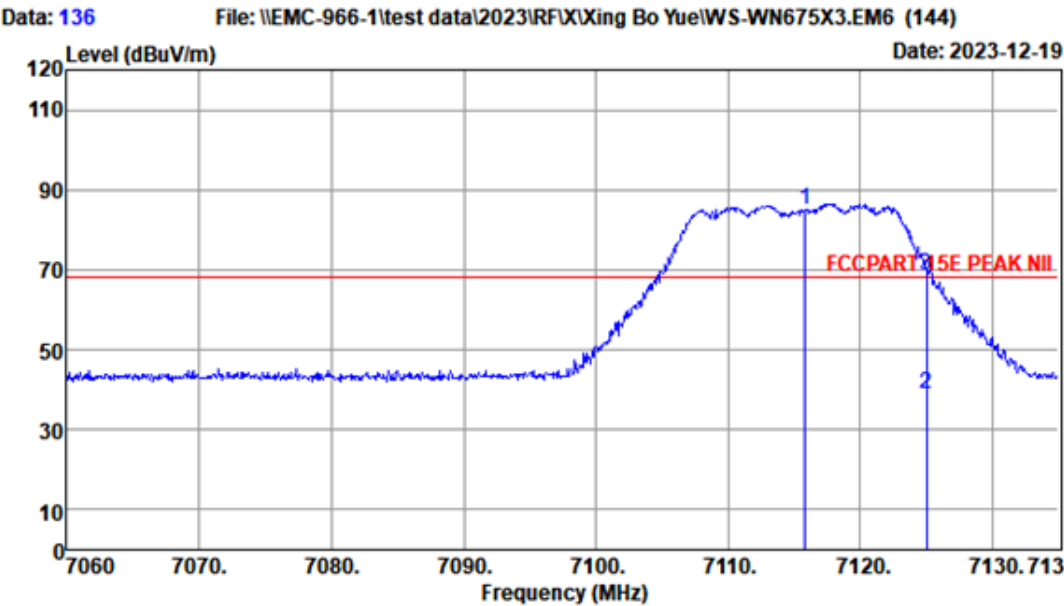


Site no. : 1# 966 Chamber Data no. : 135
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE20 TX 7115MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7113.93	36.09	6.64	44.09	88.31	86.95	68.20	-18.75	Peak
2	7125.00	36.10	6.64	44.09	36.00	34.65	-----	-----	Average
3	7125.00	36.10	6.64	44.09	68.35	67.00	68.20	1.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

No	Frequency MHz	ANT Factor dB/m	Cable loss dB	Amp Factor dBuV	Reading dB	Emission Level dBuV/m	Limit dBuV/m	Margin dB	Remark
2	7125.00	36.10	6.664	44.09	36.00	34.65	68.2	33.55	Average



Site no. : 1# 966 Chamber Data no. : 136
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE20 TX 7115MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7115.80	36.09	6.64	44.09	86.49	85.13	68.20	-16.93	Peak
2	7125.00	36.10	6.64	44.09	40.36	39.01	-----	-----	Average
3	7125.00	36.10	6.64	44.09	70.19	68.84	68.20	-0.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

No	Frequency	ANT Factor	Cable loss	Amp Factor	Reading	Emission Level	Limit	Margin	Remark
	MHz	dB/m	dB	dBuV	dB	dBuV/m	dBuV/m	dB	
2	7125.00	36.10	6.664	44.09	40.36	39.01	68.2	29.19	Average

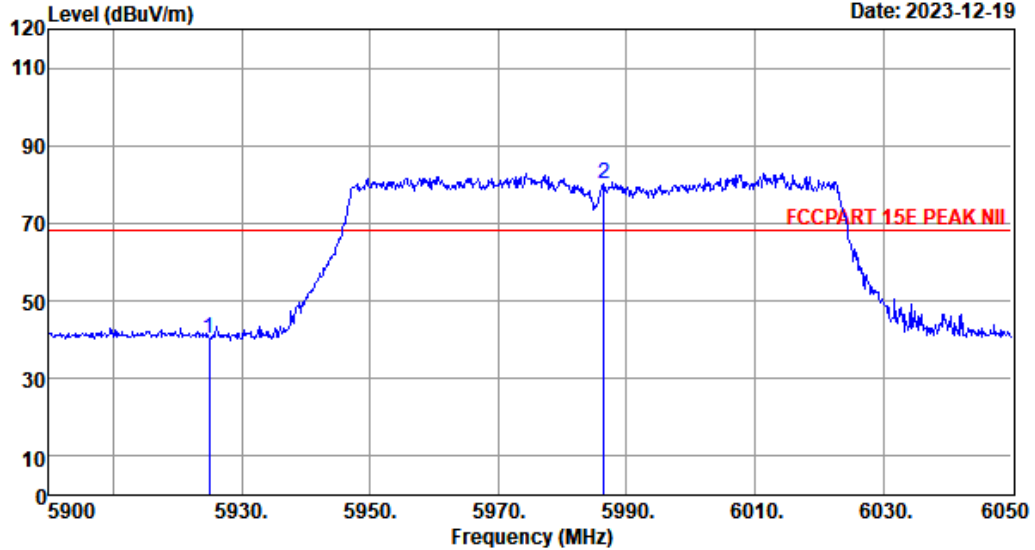
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Data: 137

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-19



Site no. : site Data no. : 137
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE80 TX 5985MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	44.64	40.46	68.20	27.74	Peak
2	5986.40	33.89	6.15	44.10	84.11	80.05	68.20	-11.85	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

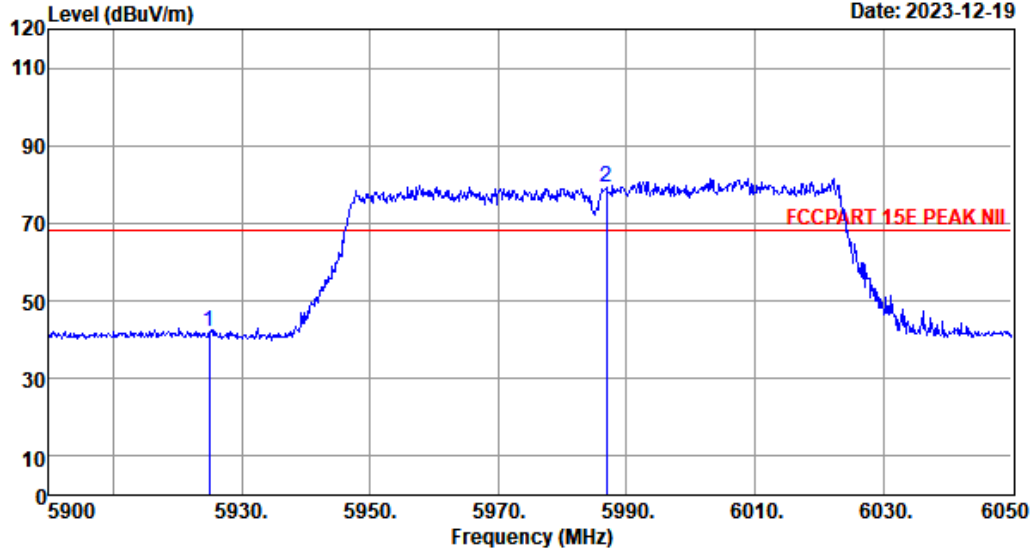
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Data: 138

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-19



Site no. : 1# 966 Chamber Data no. : 138
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE80 TX 5985MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	46.12	41.94	68.20	26.26	Peak
2	5986.85	33.89	6.15	44.10	83.15	79.09	68.20	-10.89	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

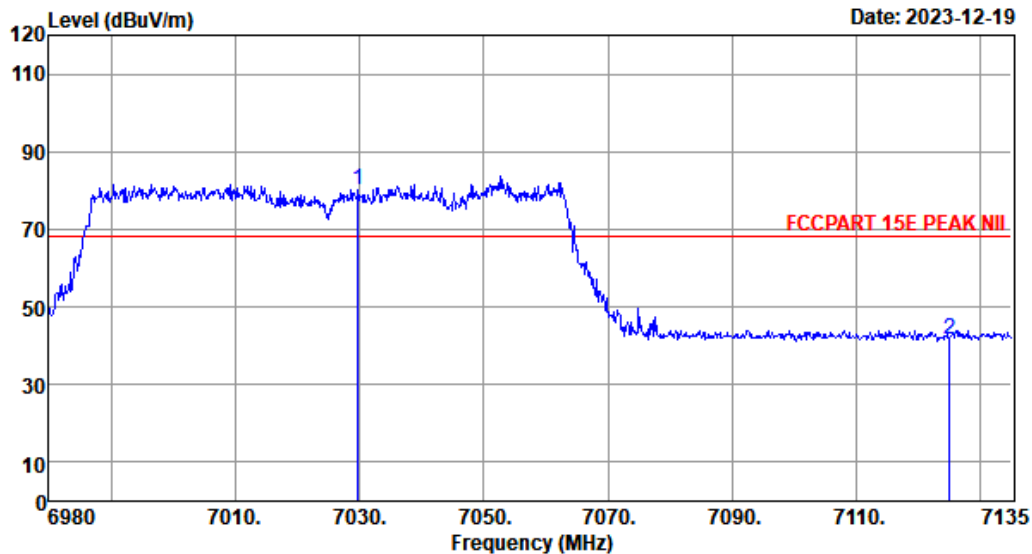
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Fax: +86-769-83081878

Data: 139

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-19

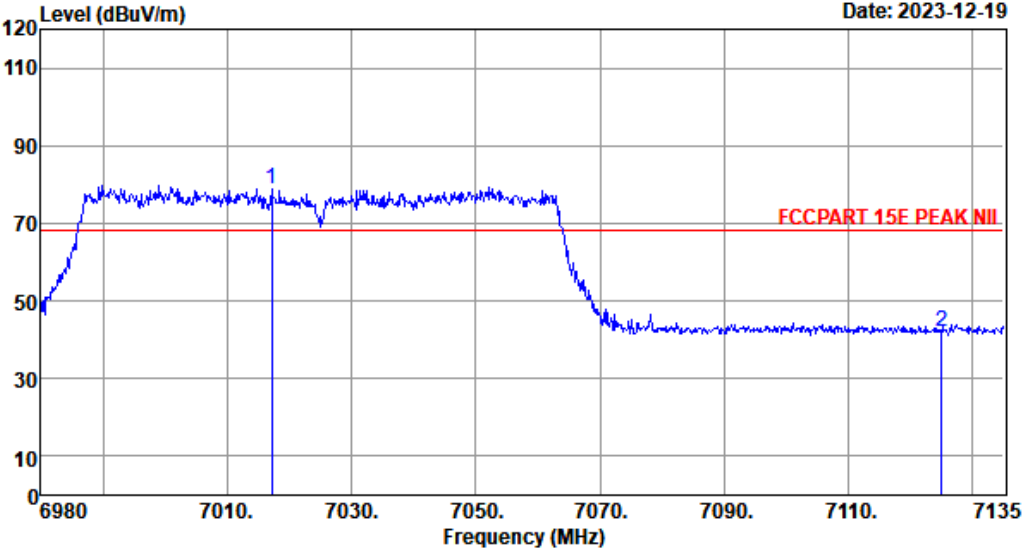


Site no. : site Data no. : 139
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE80 TX 7025MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7029.76	36.02	6.61	44.10	81.55	80.08	68.20	-11.88	Peak
2	7125.00	36.10	6.64	44.09	43.16	41.81	68.20	26.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 140 File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144) Date: 2023-12-19



Site no. : 1# 966 Chamber Data no. : 140
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE80 TX 7025MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	7017.20	36.01	6.61	44.10	80.39	78.91	68.20	-10.71	Peak
2	7125.00	36.10	6.64	44.09	43.48	42.13	68.20	26.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

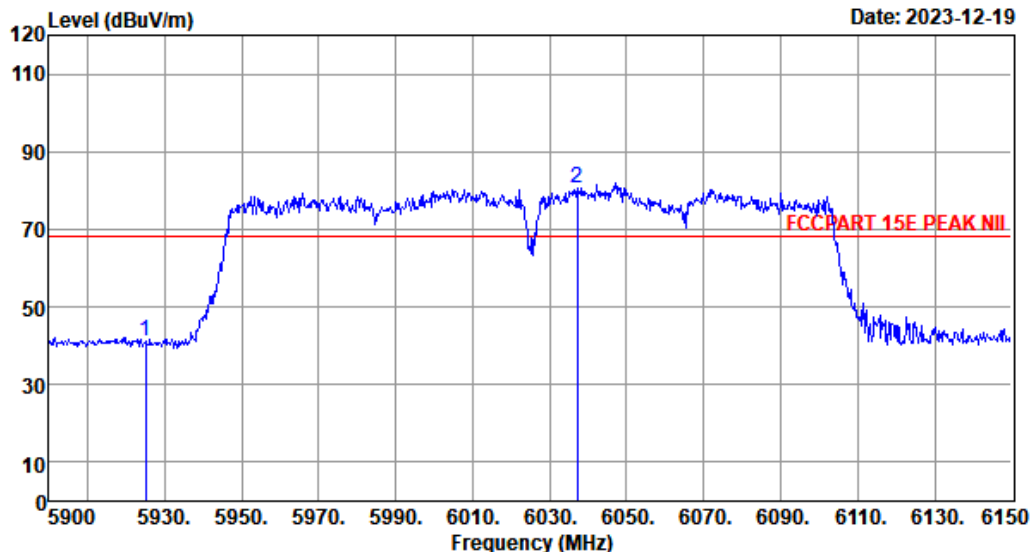
EST Technology

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Data: 141

File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)

Date: 2023-12-19

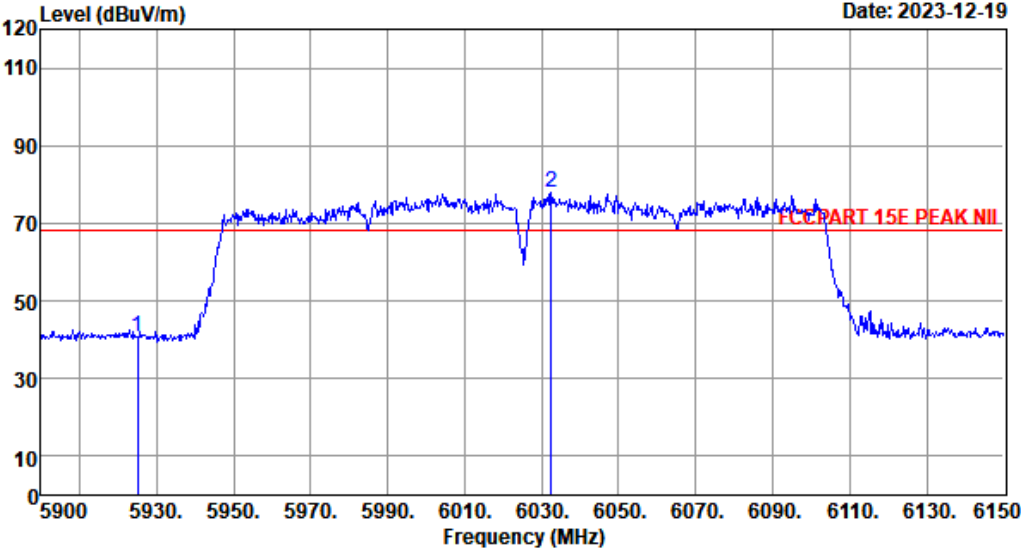


Site no. : 1# 966 Chamber Data no. : 141
 Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
 Limit : FCCPART 15E PEAK NII
 Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
 Engineer : QQZ
 EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
 Power : AC 120V/60Hz
 M/N : WS-WN675X3
 Test Mode : IEEE 802.11HE160 TX 6025MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	45.17	40.99	68.20	27.21	Peak
2	6037.25	33.98	6.17	44.10	84.35	80.40	68.20	-12.20	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
 2. Margin= Limit - Emission Level.
 3. The emission levels that are 20dB below the official limit are not reported.

Data: 142 File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144)
Date: 2023-12-19

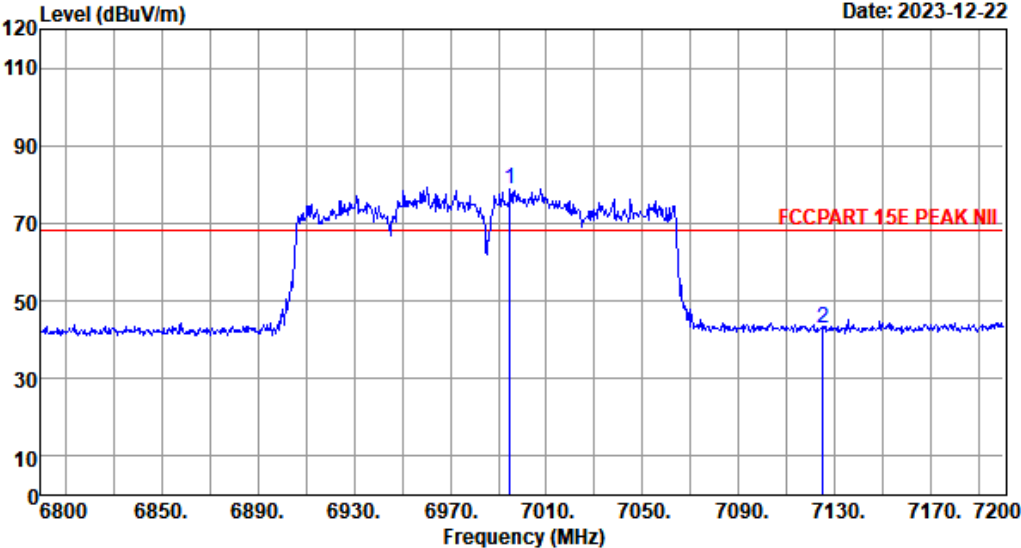


Site no. : 1# 966 Chamber Data no. : 142
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE160 TX 6025MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	5925.00	33.82	6.11	44.11	44.96	40.78	68.20	27.42	Peak
2	6032.50	33.97	6.17	44.10	81.93	77.97	68.20	-9.77	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

Data: 143 File: \\EMC-966-1\\test data\\2023\\RF\\X\\Xing Bo Yue\\WS-WN675X3.EM6 (144) Date: 2023-12-22



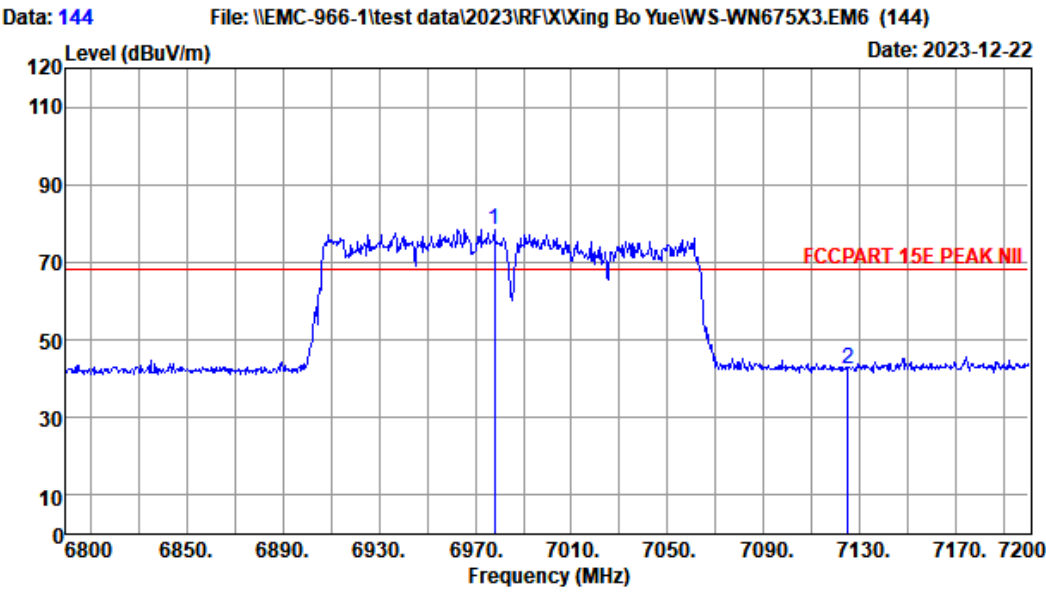
Site no. : 1# 966 Chamber Data no. : 143
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : VERTICAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE160 TX 6985MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6994.80	35.99	6.60	44.10	80.29	78.78	68.20	-10.58	Peak
2	7125.00	36.10	6.64	44.09	44.42	43.07	68.20	25.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official
limit are not reported.

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Fax: +86-769-83081878



Site no. : 1# 966 Chamber Data no. : 144
Dis. / Ant. : 3m BBHA9120D-2667 Ant. pol. : HORIZONTAL
Limit : FCCPART 15E PEAK NII
Env. / Ins. : Temp:19.5°C;Humi:50%;Press:101.55kPa
Engineer : QQZ
EUT : WiFi 6E Tri-Band AX5400 PCI-E Adapter
Power : AC 120V/60Hz
M/N : WS-WN675X3
Test Mode : IEEE 802.11HE160 TX 6985MHz

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	6978.00	35.95	6.59	44.10	79.94	78.38	68.20	-10.18	Peak
2	7125.00	36.10	6.64	44.09	43.85	42.50	68.20	25.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. Margin= Limit - Emission Level.
3. The emission levels that are 20dB below the official limit are not reported.

18000MHz-40000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

11.ANTENNA REQUIREMENTS

11.1.Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

11.2.Test Result

The antennas used for this product is Internal antenna, so compliance with antenna requirements.
(Please refer to the EUT photo for details)

12. APPENDIX

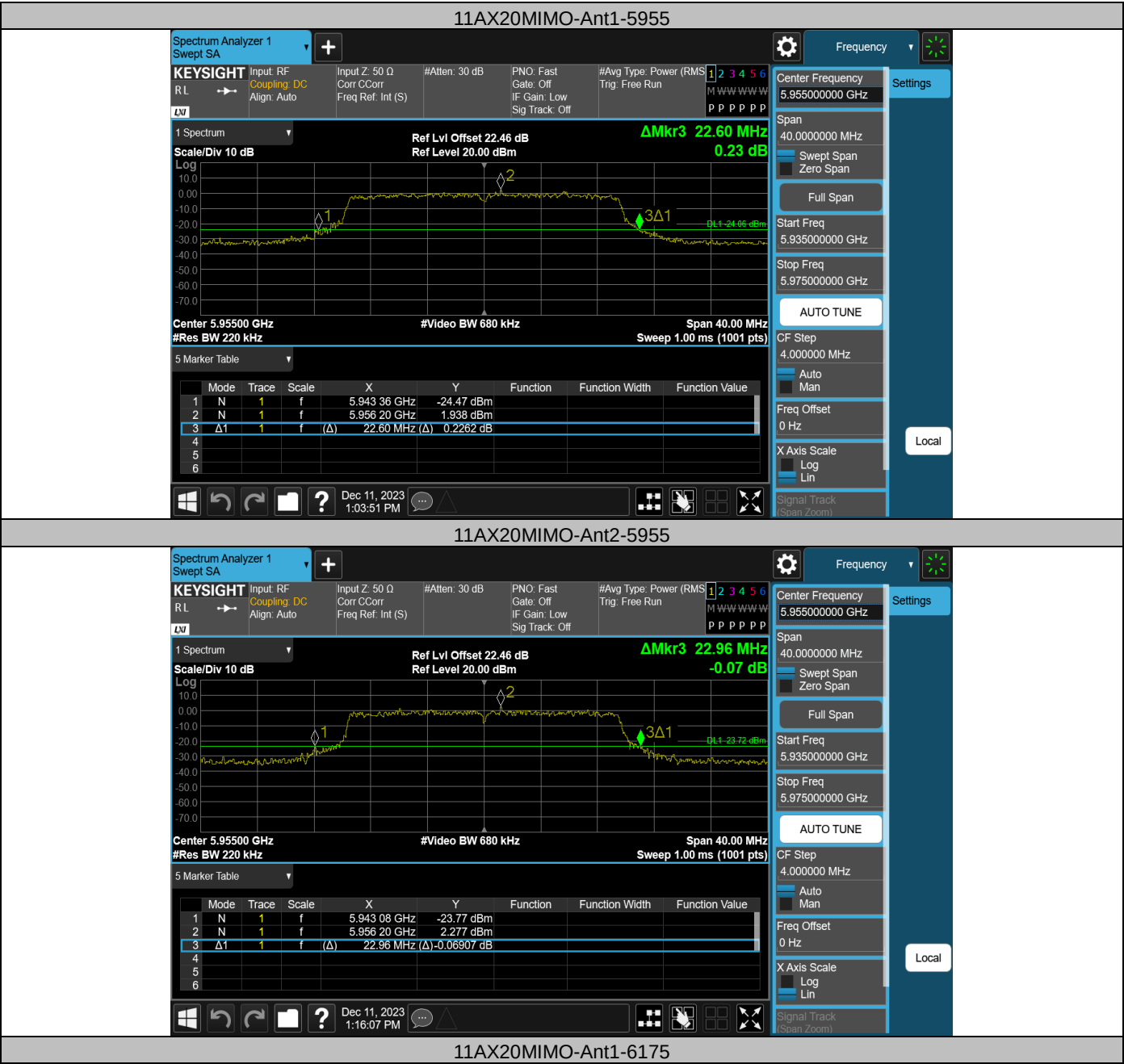
Appendix A1: Emission Bandwidth

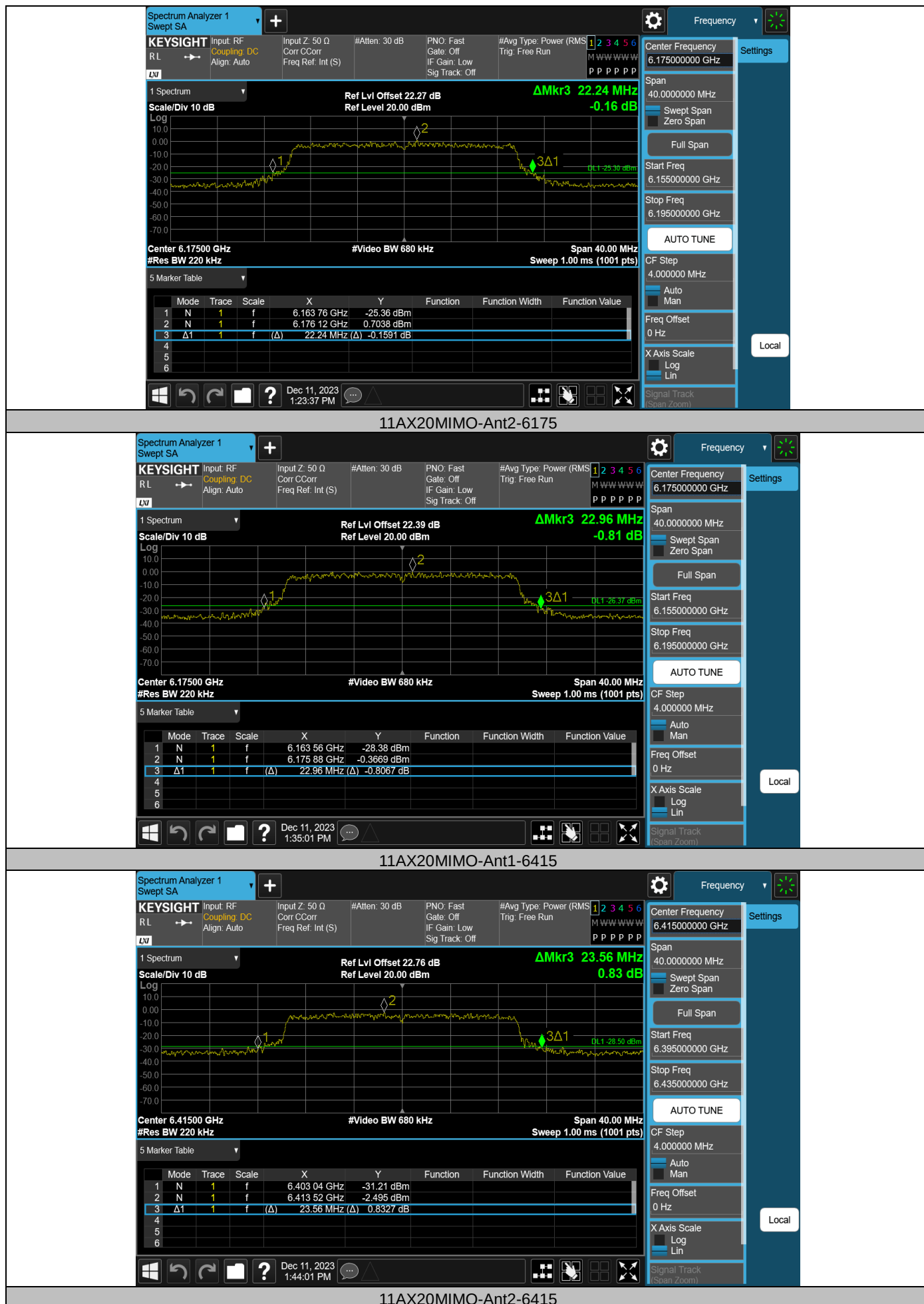
Test Result

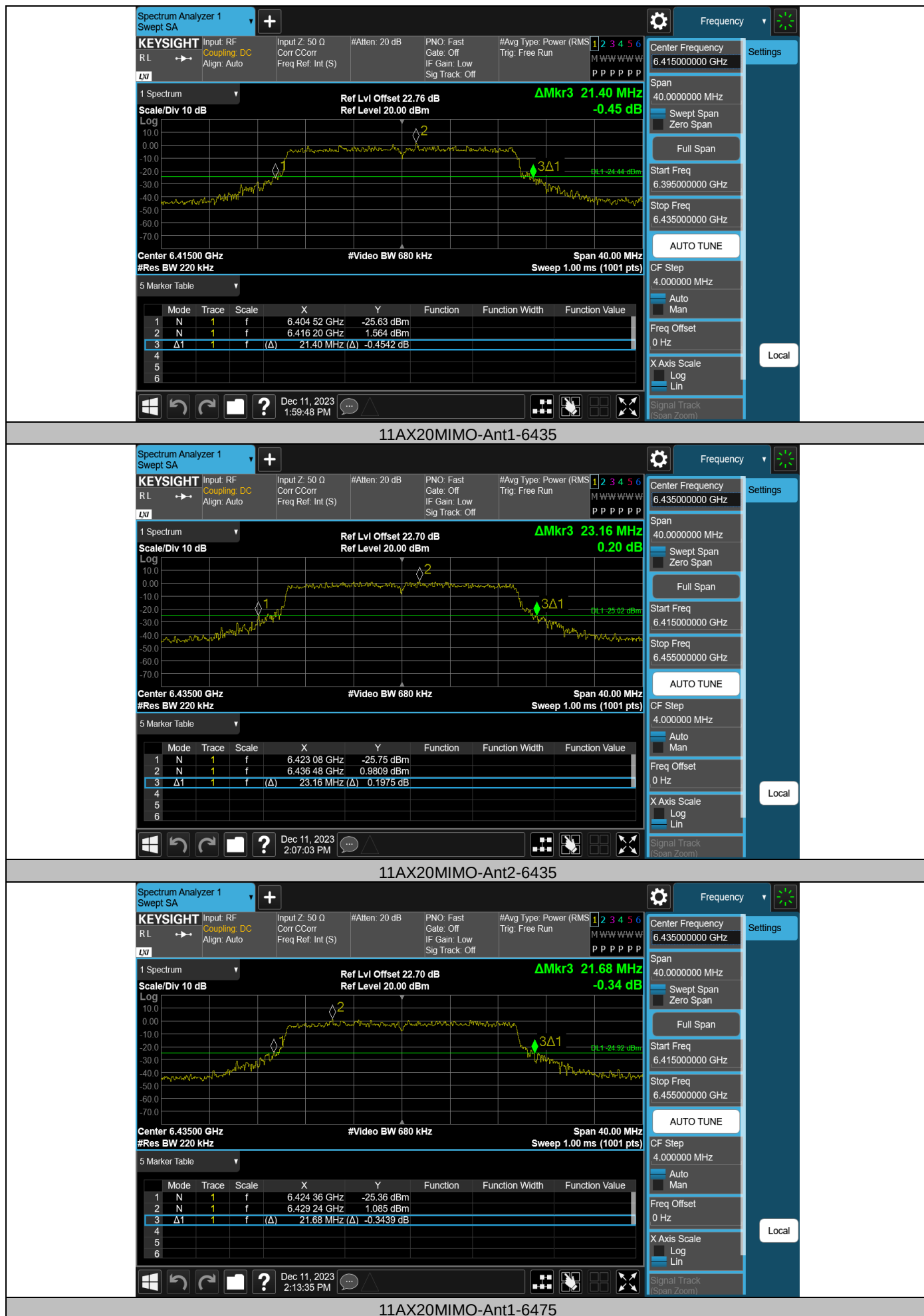
TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11AX20MIMO	Ant1	5955	22.600	5943.360	5965.960	---	---
11AX20MIMO	Ant2	5955	22.960	5943.080	5966.040	---	---
11AX20MIMO	Ant1	6175	22.240	6163.760	6186.000	---	---
11AX20MIMO	Ant2	6175	22.960	6163.560	6186.520	---	---
11AX20MIMO	Ant1	6415	23.560	6403.040	6426.600	---	---
11AX20MIMO	Ant2	6415	21.400	6404.520	6425.920	---	---
11AX20MIMO	Ant1	6435	23.160	6423.080	6446.240	---	---
11AX20MIMO	Ant2	6435	21.680	6424.360	6446.040	---	---
11AX20MIMO	Ant1	6475	22.840	6463.360	6486.200	---	---
11AX20MIMO	Ant2	6475	21.480	6464.320	6485.800	---	---
11AX20MIMO	Ant1	6515	22.080	6504.080	6526.160	---	---
11AX20MIMO	Ant2	6515	21.920	6504.200	6526.120	---	---
11AX20MIMO	Ant1	6535	21.600	6524.200	6545.800	---	---
11AX20MIMO	Ant2	6535	21.960	6523.880	6545.840	---	---
11AX20MIMO	Ant1	6695	21.800	6684.240	6706.040	---	---
11AX20MIMO	Ant2	6695	22.360	6683.840	6706.200	---	---
11AX20MIMO	Ant1	6855	21.280	6844.280	6865.560	---	---
11AX20MIMO	Ant2	6855	22.600	6843.520	6866.120	---	---
11AX20MIMO	Ant1	6875	21.280	6864.440	6885.720	---	---
11AX20MIMO	Ant2	6875	22.880	6863.360	6886.240	---	---
11AX20MIMO	Ant1	6895	21.800	6884.160	6905.960	---	---
11AX20MIMO	Ant2	6895	22.000	6883.920	6905.920	---	---
11AX20MIMO	Ant1	6995	22.440	6983.720	7006.160	---	---
11AX20MIMO	Ant2	6995	20.800	6984.600	7005.400	---	---
11AX20MIMO	Ant1	7115	22.760	7103.560	7126.320	---	---
11AX20MIMO	Ant2	7115	22.000	7104.240	7126.240	---	---
11AX40MIMO	Ant1	5965	39.680	5945.160	5984.840	---	---
11AX40MIMO	Ant2	5965	39.840	5945.240	5985.080	---	---
11AX40MIMO	Ant1	6165	39.920	6144.920	6184.840	---	---
11AX40MIMO	Ant2	6165	39.440	6145.240	6184.680	---	---
11AX40MIMO	Ant1	6405	40.160	6384.840	6425.000	---	---
11AX40MIMO	Ant2	6405	39.520	6385.240	6424.760	---	---
11AX40MIMO	Ant1	6445	40.160	6425.080	6465.240	---	---
11AX40MIMO	Ant2	6445	39.680	6425.240	6464.920	---	---
11AX40MIMO	Ant1	6485	39.680	6465.000	6504.680	---	---
11AX40MIMO	Ant2	6485	39.440	6465.240	6504.680	---	---
11AX40MIMO	Ant1	6525	40.000	6505.160	6545.160	---	---
11AX40MIMO	Ant2	6525	39.760	6505.400	6545.160	---	---
11AX40MIMO	Ant1	6565	39.840	6545.240	6585.080	---	---
11AX40MIMO	Ant2	6565	39.680	6545.240	6584.920	---	---
11AX40MIMO	Ant1	6685	39.360	6665.400	6704.760	---	---
11AX40MIMO	Ant2	6685	39.840	6665.080	6704.920	---	---
11AX40MIMO	Ant1	6845	39.600	6825.400	6865.000	---	---
11AX40MIMO	Ant2	6845	39.600	6825.240	6864.840	---	---
11AX40MIMO	Ant1	6885	40.000	6864.920	6904.920	---	---
11AX40MIMO	Ant2	6885	40.080	6865.080	6905.160	---	---
11AX40MIMO	Ant1	6925	39.680	6905.080	6944.760	---	---
11AX40MIMO	Ant2	6925	40.080	6905.080	6945.160	---	---
11AX40MIMO	Ant1	6965	40.320	6944.920	6985.240	---	---
11AX40MIMO	Ant2	6965	40.000	6945.160	6985.160	---	---
11AX40MIMO	Ant1	7085	39.440	7065.240	7104.680	---	---

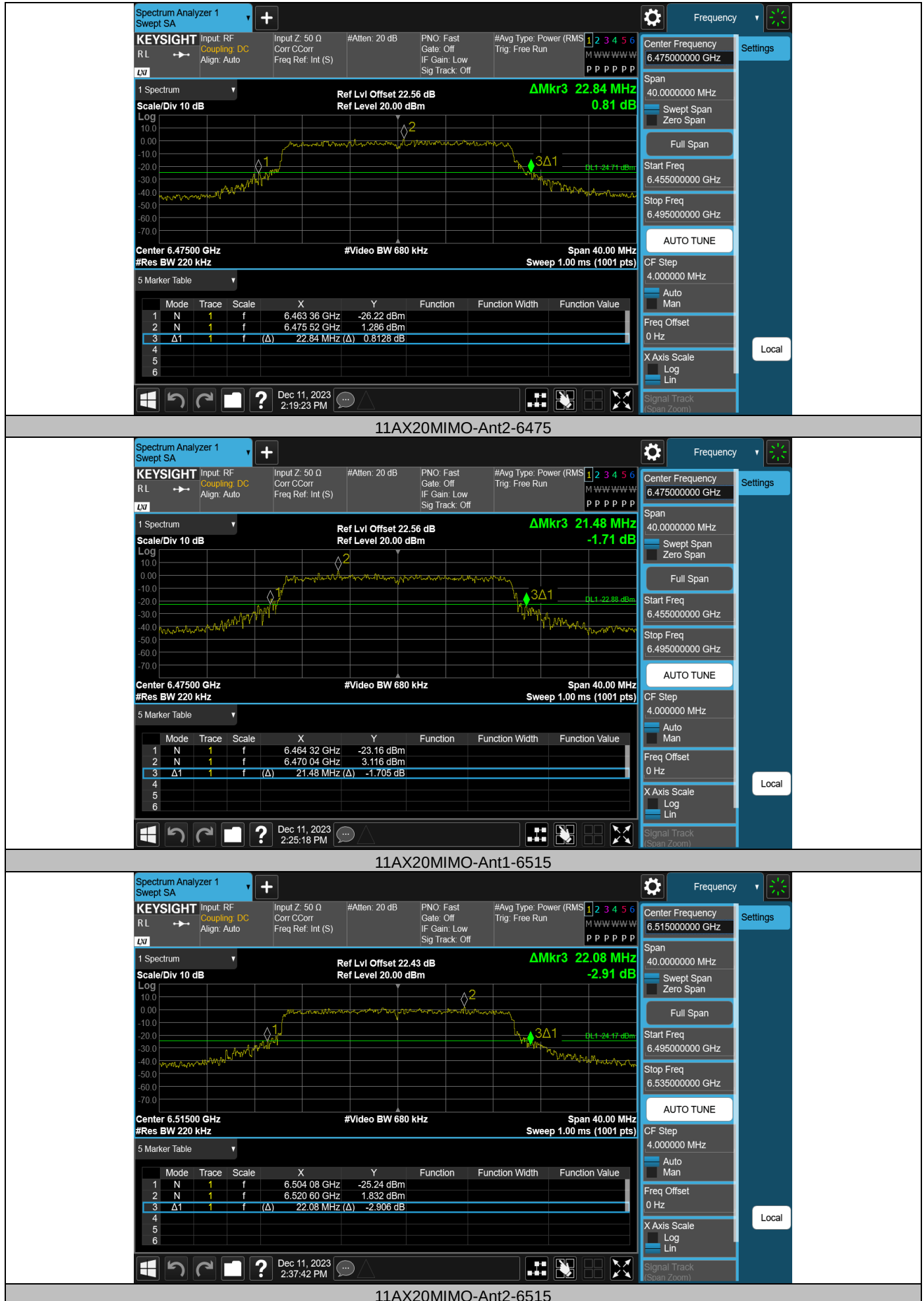
11AX40MIMO	Ant2	7085	39.840	7065.000	7104.840	---	---
11AX80MIMO	Ant1	5985	80.160	5944.840	6025.000	---	---
11AX80MIMO	Ant2	5985	80.480	5944.360	6024.840	---	---
11AX80MIMO	Ant2	6145	80.960	6105.000	6185.960	---	---
11AX80MIMO	Ant1	6145	80.800	6104.360	6185.160	---	---
11AX80MIMO	Ant1	6385	80.800	6344.040	6424.840	---	---
11AX80MIMO	Ant2	6385	80.000	6345.160	6425.160	---	---
11AX80MIMO	Ant1	6465	79.840	6425.160	6505.000	---	---
11AX80MIMO	Ant2	6465	80.320	6425.000	6505.320	---	---
11AX80MIMO	Ant1	6545	80.800	6505.000	6585.800	---	---
11AX80MIMO	Ant2	6545	80.320	6504.680	6585.000	---	---
11AX80MIMO	Ant1	6625	80.000	6585.000	6665.000	---	---
11AX80MIMO	Ant2	6625	80.000	6585.000	6665.000	---	---
11AX80MIMO	Ant1	6705	80.800	6664.040	6744.840	---	---
11AX80MIMO	Ant2	6705	80.160	6665.000	6745.160	---	---
11AX80MIMO	Ant1	6785	80.000	6745.000	6825.000	---	---
11AX80MIMO	Ant2	6785	80.160	6745.000	6825.160	---	---
11AX80MIMO	Ant1	6865	80.000	6825.160	6905.160	---	---
11AX80MIMO	Ant2	6865	80.000	6825.000	6905.000	---	---
11AX80MIMO	Ant1	6945	79.840	6905.160	6985.000	---	---
11AX80MIMO	Ant2	6945	80.480	6904.520	6985.000	---	---
11AX80MIMO	Ant1	7025	80.160	6985.000	7065.160	---	---
11AX80MIMO	Ant2	7025	80.000	6985.160	7065.160	---	---
11AX160MIMO	Ant1	6025	162.240	5943.720	6105.960	---	---
11AX160MIMO	Ant2	6025	163.200	5942.760	6105.960	---	---
11AX160MIMO	Ant1	6185	162.240	6104.040	6266.280	---	---
11AX160MIMO	Ant2	6185	161.920	6104.360	6266.280	---	---
11AX160MIMO	Ant1	6345	164.160	6264.040	6428.200	---	---
11AX160MIMO	Ant2	6345	162.560	6263.720	6426.280	---	---
11AX160MIMO	Ant1	6505	161.920	6424.360	6586.280	---	---
11AX160MIMO	Ant2	6505	162.240	6424.040	6586.280	---	---
11AX160MIMO	Ant1	6665	160.960	6584.360	6745.320	---	---
11AX160MIMO	Ant2	6665	161.920	6584.040	6745.960	---	---
11AX160MIMO	Ant1	6825	162.240	6744.360	6906.600	---	---
11AX160MIMO	Ant2	6825	161.920	6744.360	6906.280	---	---
11AX160MIMO	Ant1	6985	161.600	6904.680	7066.280	---	---
11AX160MIMO	Ant2	6985	161.920	6904.040	7065.960	---	---

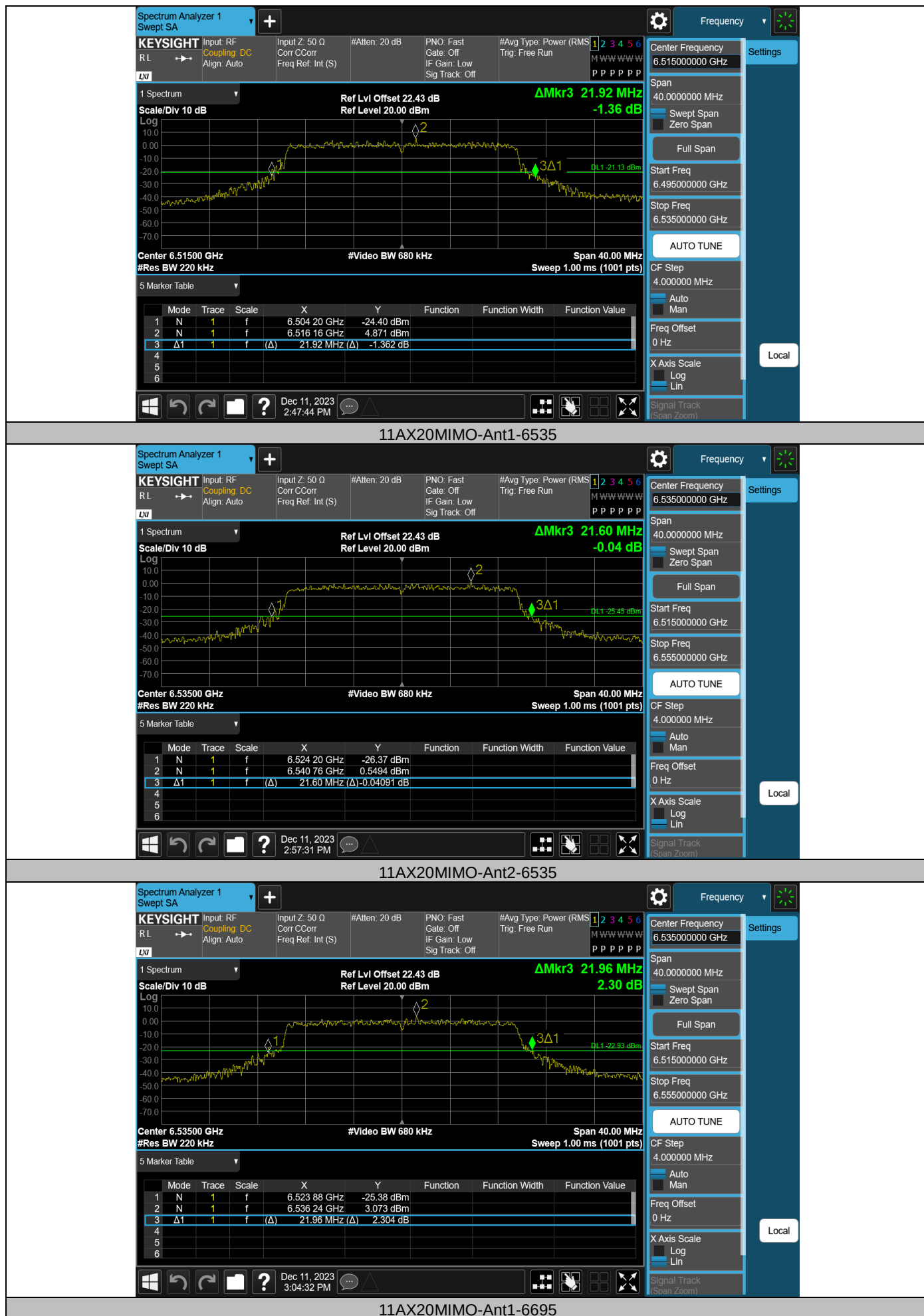
Test Graphs

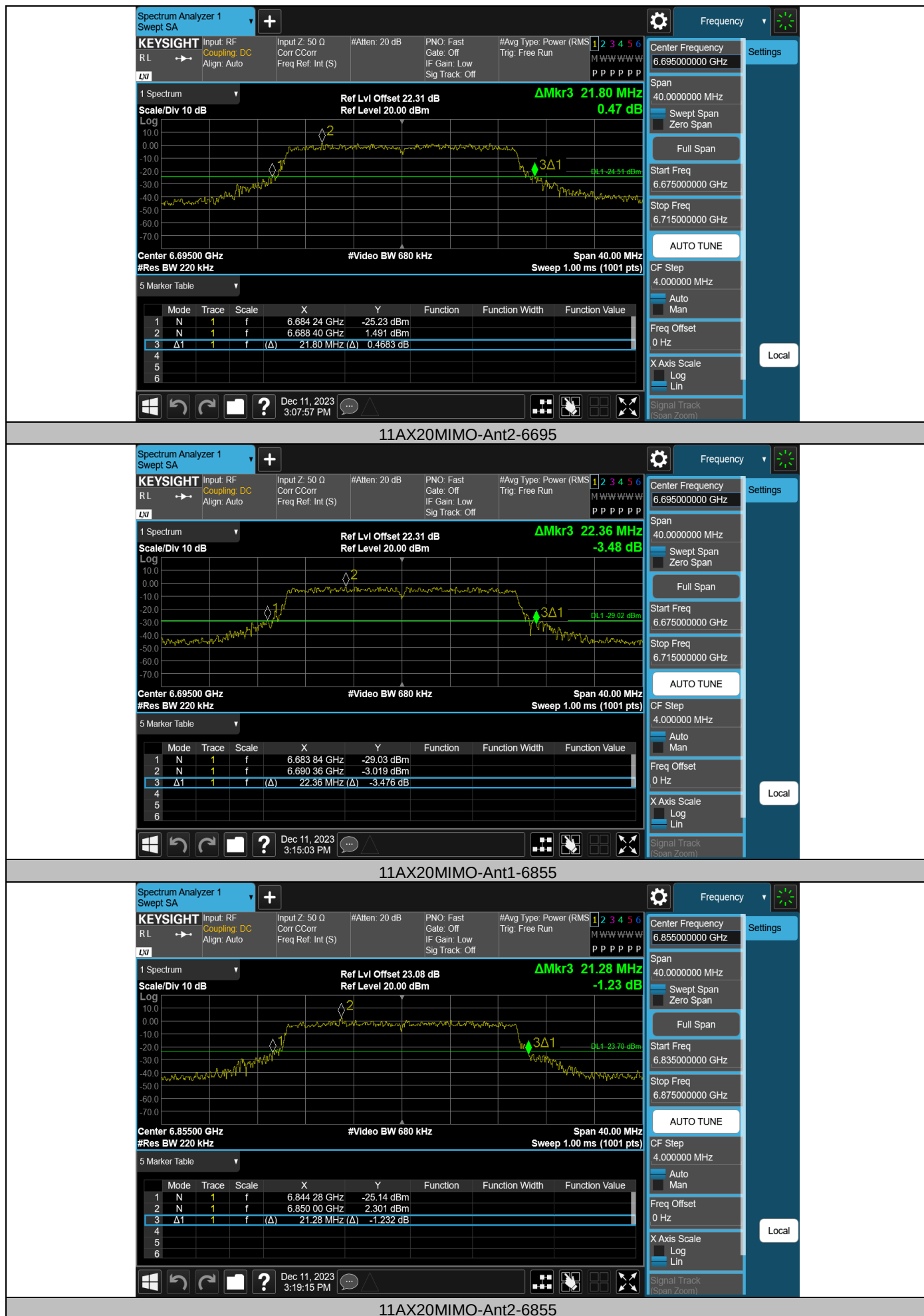


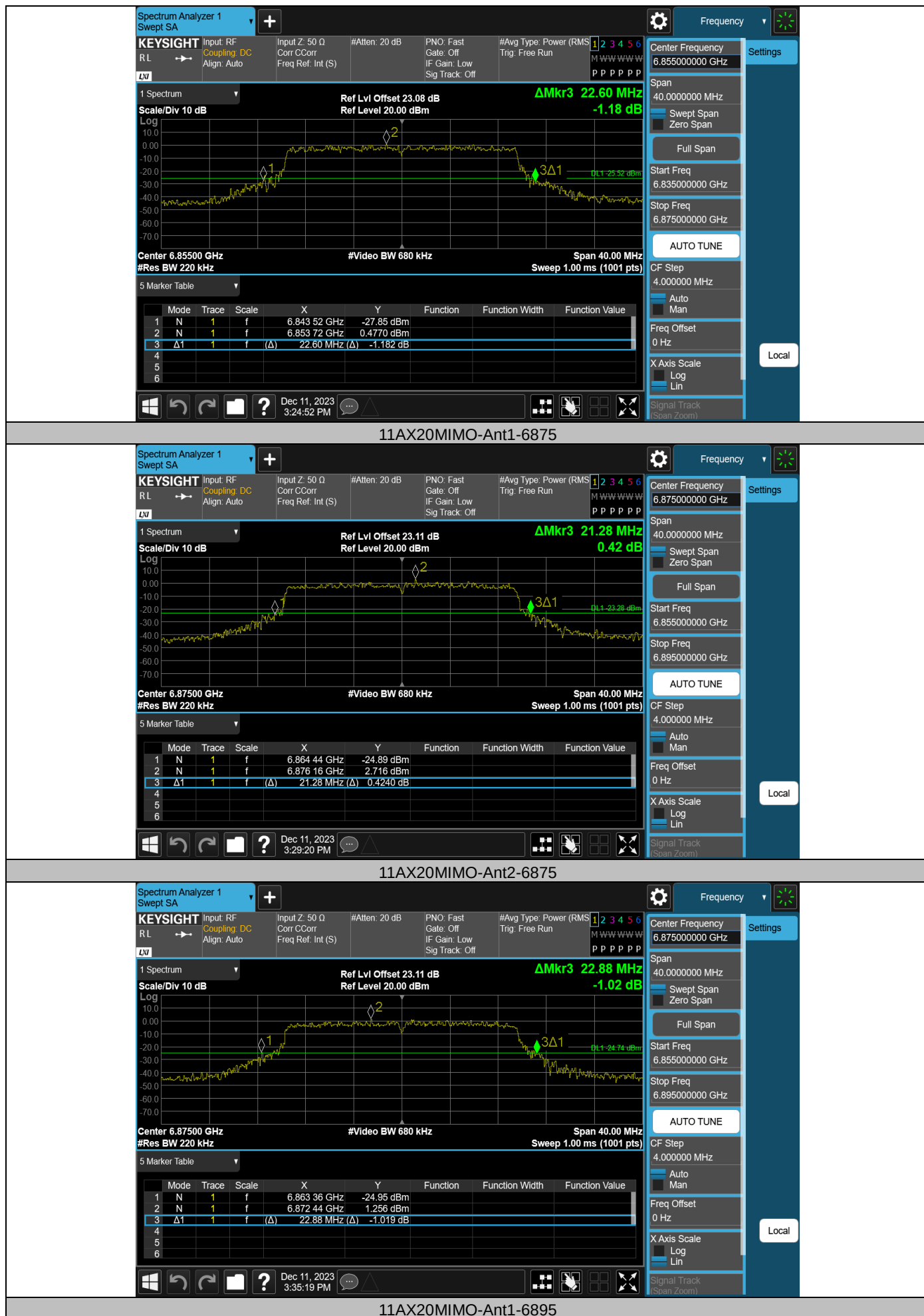


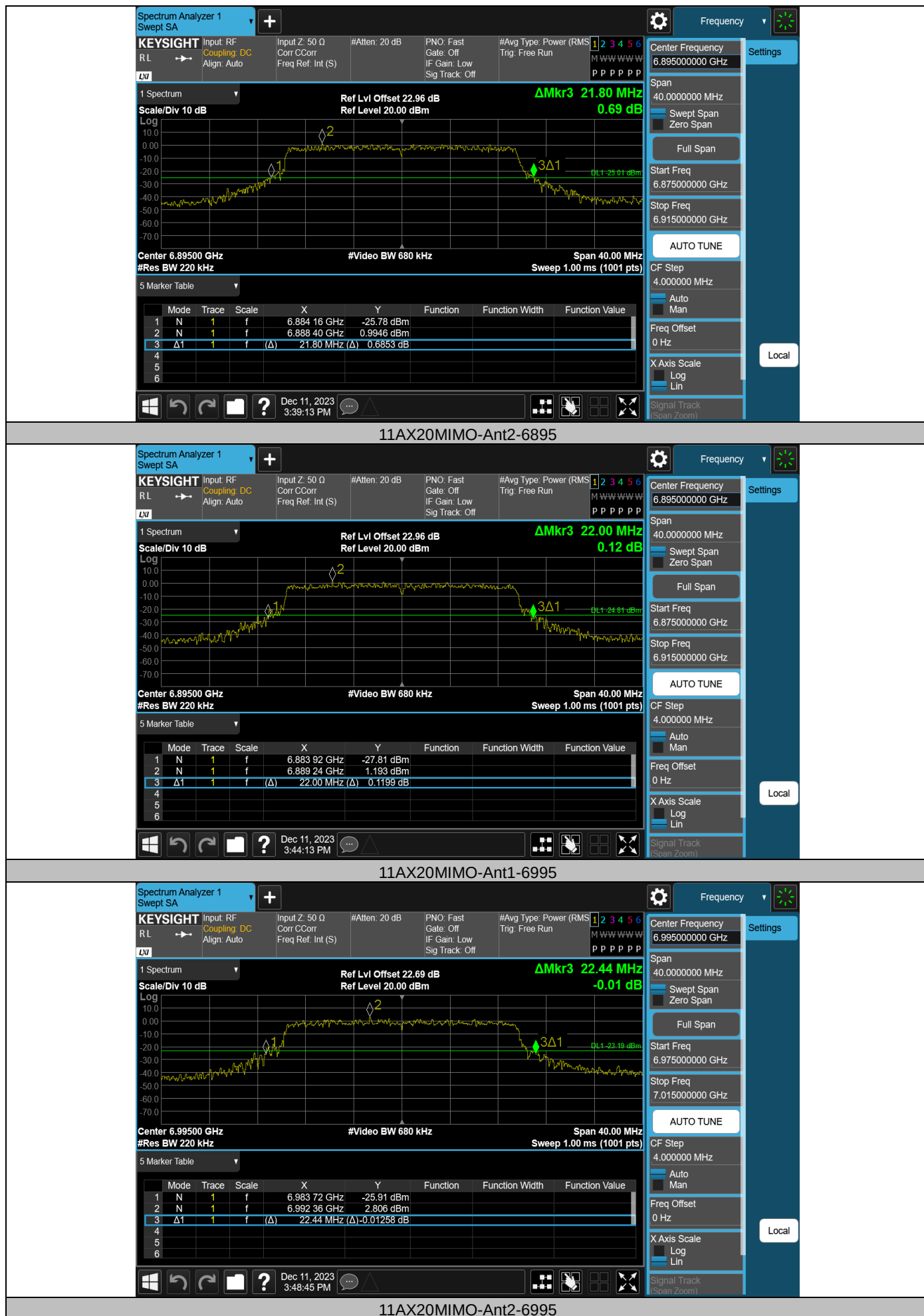










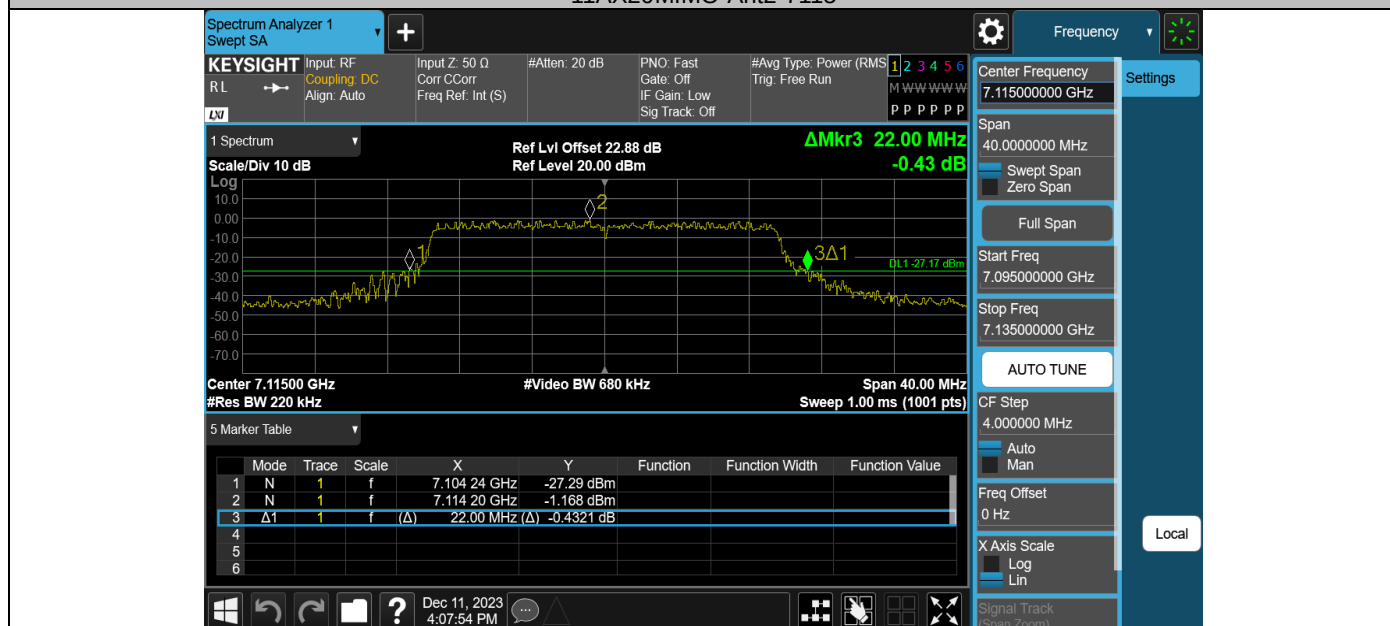




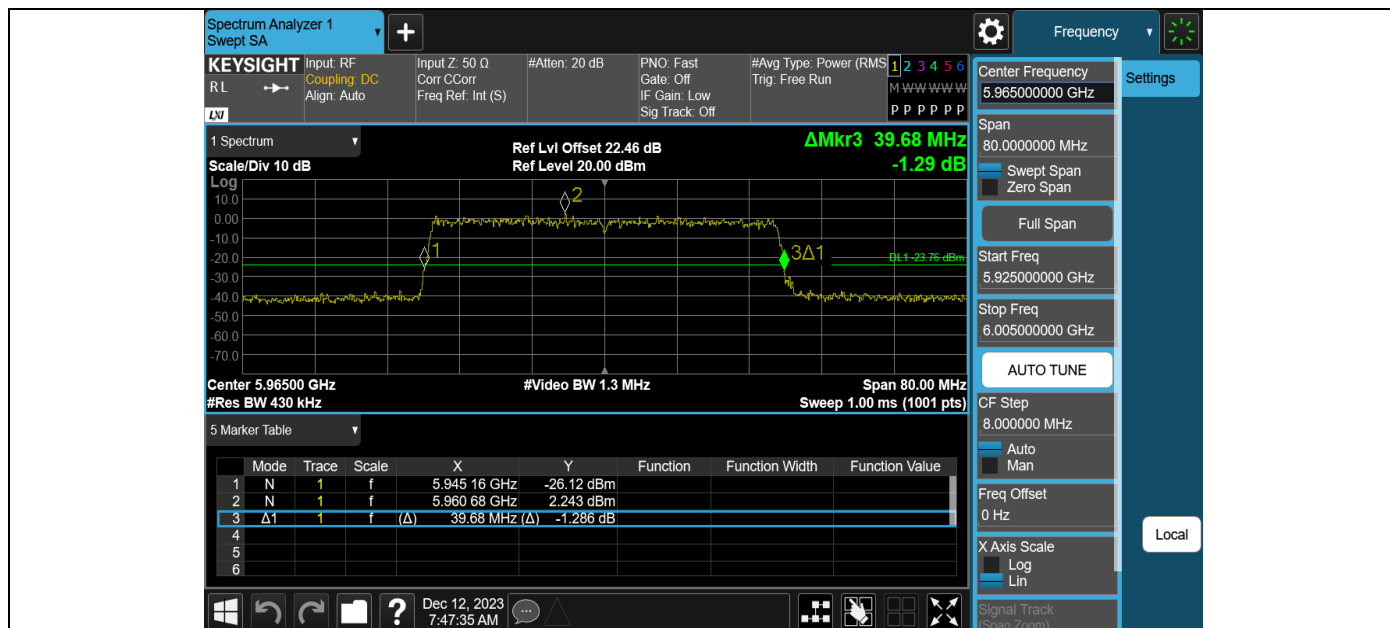
11AX20MIMO-Ant1-7115



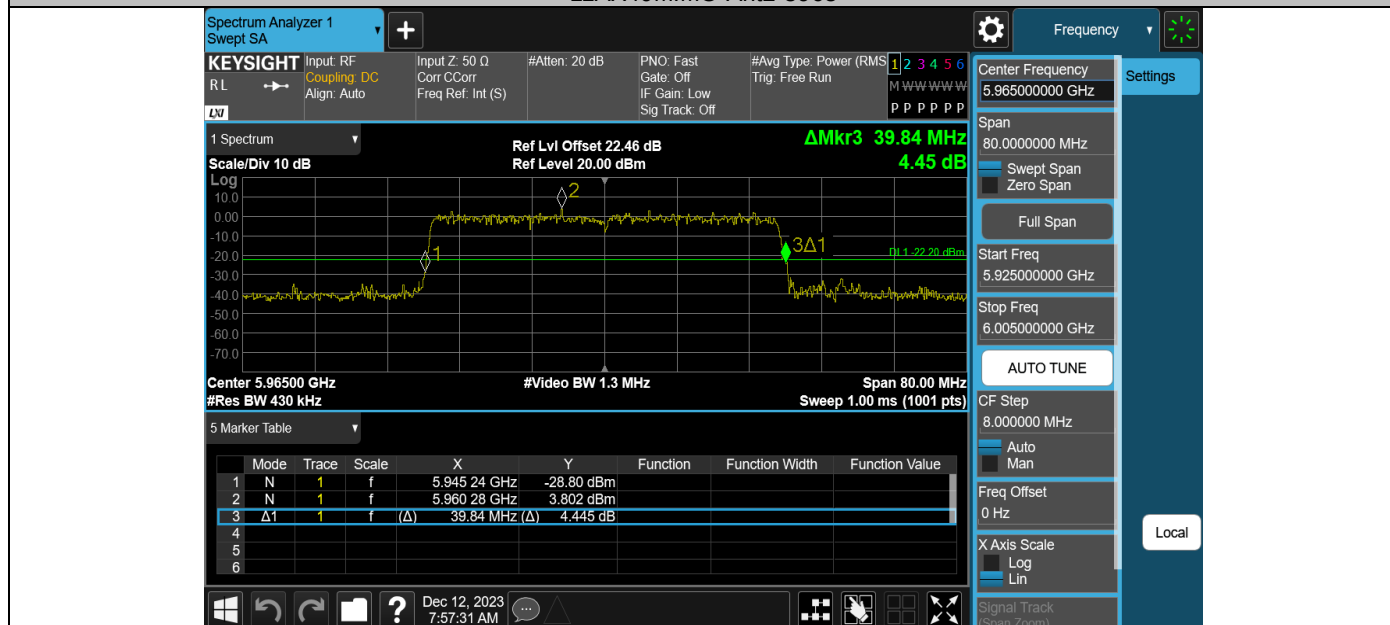
11AX20MIMO-Ant2-7115



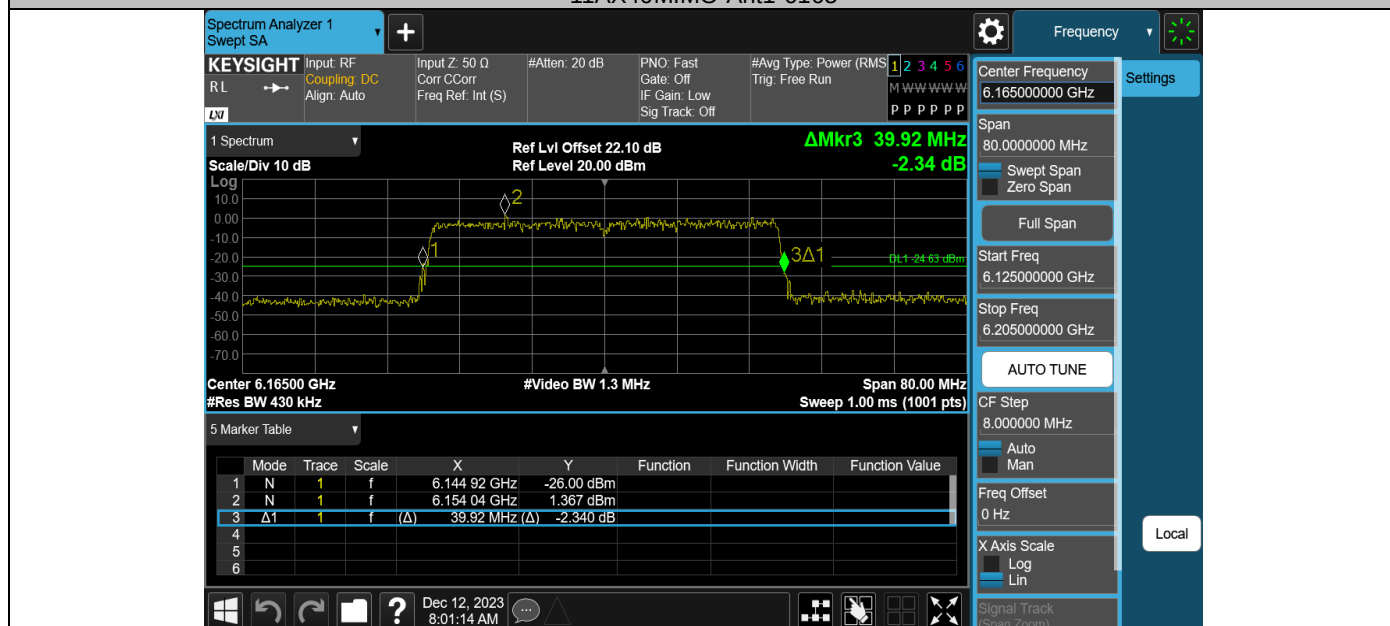
11AX40MIMO-Ant1-5965



11AX40MIMO-Ant2-5965



11AX40MIMO-Ant1-6165



11AX40MIMO-Ant2-6165