

Radio Test Report

FCC ID: 2AWNK-AX18

Original Grant

Report No. : TB-FCC180233

Applicant : Shenzhen Apeman Innovations Technology Co.,Ltd

Equipment Under Test (EUT)

EUT Name : AX1800 Dual Band Wi-Fi 6 Smart Router

Model No. : AX18

Series Model No. : AX1801, AX1802, AX1803, AX1804, AX1805, AX18A, AX18B, AX18C, AX18D, AX18E

Sample ID : ----

Brand Name : 20210415-09-1#& 20210415-09-2#

Receipt Date : 2021-05-08

Test Date : 2021-05-08 to 2021-05-19

Issue Date : 2021-05-20

Standards : FCC Part 15, Subpart E 15.407
ANSI C63.10: 2013

Test Method : KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

Conclusions : **PASS**

In the configuration tested, the EUT complied with the standards specified above.

Test/Witness Engineer : *Rebecca*

Test/Witness Engineer : *IVAN SU*

Engineer Manager : *Ray Lai*



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

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Revision History

Report No.	Version	Description	Issued Date
TB-FCC180233	Rev.01	Initial issue of report	2021-05-20

1. General Information about EUT

1.1 Client Information

Applicant	:	Shenzhen Apeman Innovations Technology Co.,Ltd
Address	:	1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Apeman Innovations Technology Co.,Ltd
Address	:	1808, Heng Lu E Times Building, No. 159, North Pingji Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen, Guangdong, China

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	AX1800 Dual Band Wi-Fi 6 Smart Router	
Model No.	:	AX18, AX1801, AX1802, AX1803, AX1804, AX1805, AX18A, AX18B, AX18C, AX18D, AX18E	
Model Difference	:	All these models are identical in the same PCB, layout and electrical circuit, The only difference is model name.	
Product Description	:	Operation Frequency: U-NII-1: 5180MHz~5240MHz, U-NII-3: 5745MHz~5825MHz	
		Number of Channel:	Please see Note(2)
		Antenna Gain:	Please see Note(3)
	:	Modulation Type:	802.11a: OFDM (BPSK,QPSK,16-QAM,64QAM) 802.11n: OFDM (BPSK, QPSK,16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK,16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK,16QAM, 64QAM, 256QAM, 1024QAM)
		Data Rate:	5GHz: Up to 1201Mbps (2*2 80MHz)
Power Rating	:	Adapter(TPQ-233A120100UW01): Input: 100-240V~, 50/60Hz, 0.4A Output: DC 12V 1A	
Software Version	:	A	
Hardware Version	:	N/A	
Remark	:	The antenna gain and adapter provided by the applicant, the verified for the RF conduction test provided by TOBY test lab.	

Note:

(1) More detailed features description, please refer to the manufacturer's specifications or the User's Manual.

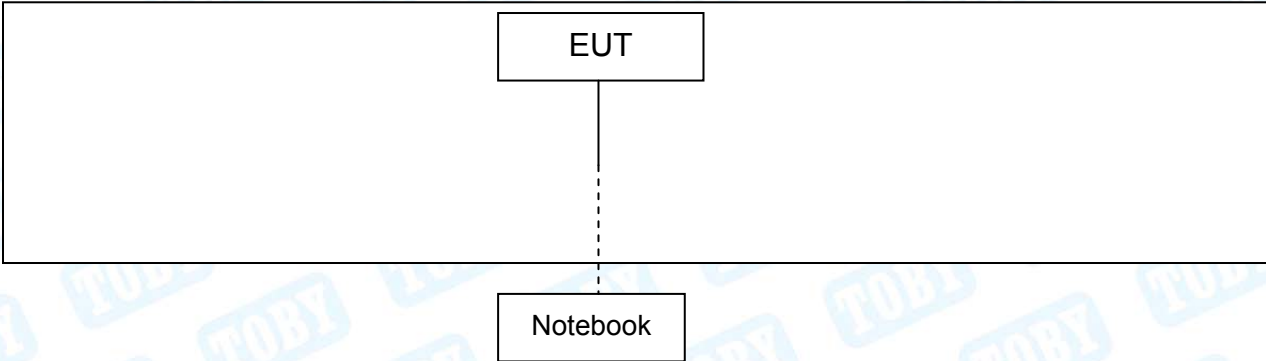
(2) Channel List:

Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5180~5240MHz (U-NII-1)	36	5180 MHz	44	5220 MHz
	38	5190 MHz	46	5230 MHz
	40	5200 MHz	48	5240 MHz
	42	5210 MHz		
For 20 MHz Bandwidth, use channel 36, 40, 44, 48; For 40 MHz Bandwidth, use channel 38, 46. For 80 MHz Bandwidth, use channel 42.				
Frequency Band	Channel No.	Frequency	Channel No.	Frequency
5745~5825MHz (U-NII-3)	149	5745 MHz	157	5785 MHz
	151	5755 MHz	159	5795 MHz
	153	5765 MHz	161	5805 MHz
	155	5775 MHz	165	5825 MHz
For 20 MHz Bandwidth, use channel 149, 153, 157, 161, 165. For 40 MHz Bandwidth, use channel 151, 159. For 80 MHz Bandwidth, use channel 155.				

(3) Channel List:

Mode		N _{ANT}	Remark	
802.11a		2	ANT. 3+ ANT. 4	
802.11n (HT20)		2	ANT. 3+ ANT. 4	
802.11n (HT40)		2	ANT. 3+ ANT. 4	
802.11ac(VHT20)		2	ANT. 3+ ANT. 4	
802.11ac(VHT40)		2	ANT. 3+ ANT. 4	
802.11ac(VHT80)		2	ANT. 3+ ANT. 4	
802.11ax(HE20)		2	ANT. 3+ ANT. 4	
802.11ax(HE40)		2	ANT. 3+ ANT. 4	
802.11ax(HE80)		2	ANT. 3+ ANT. 4	
Antenna	Brand	Model Name	Type	Antenna Gain (dBi)
ANT. 3	N/A	N/A	Dipole	U-NII-1: 5
				U-NII-3: 5
ANT. 4	N/A	N/A	Dipole	U-NII-1: 5
				U-NII-3: 5
Note: For MIMO mode: Directional Gain=ANT. Gain+10*LOG(NANT) =8.01dBi 5G working with 802.11a/n/ac/ax has MIMO mode.				

1.3 Block Diagram Showing the Configuration of System Tested



1.4 Description of Support Units

Name	Model	S/N	Manufacturer	Used “√”
Notebook	161301-CN	15987/00203076	Xiaomi	√

1.5 Description of Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned follow was evaluated respectively.

For Conducted Test		
Final Test Mode		Description
Mode 1		TX a Mode(5180MHz)
For Radiated Test Below 1GHz		
Final Test Mode		Description
Mode 2		TX a Mode(5180MHz)
For Radiated Above 1GHz and RF Conducted Test		
Test Band	Final Test Mode	Description
U-NII-1	Mode 3	TX Mode 802.11a Mode Channel 36/40/48
	Mode 4	TX Mode 802.11n(HT20) Mode Channel 36/40/48
	Mode 5	TX Mode 802.11ac(VHT20) Mode Channel 36/40/48
	Mode 6	TX Mode 802.11ax(HE20) Mode Channel 36/40/48
	Mode 7	TX Mode 802.11n(HT40) Mode Channel 38/46
	Mode 8	TX Mode 802.11ac(VHT40) Mode Channel 38/46
	Mode 9	TX Mode 802.11ax(HE40) Mode Channel 38/46
	Mode 10	TX Mode 802.11ac(VHT80) Mode Channel 42
	Mode 11	TX Mode 802.11ax(HE80) Mode Channel 42
U-NII-3	Mode 12	TX Mode 802.11a Mode Channel 149/157/165
	Mode 13	TX Mode 802.11n(HT20) Mode Channel 149/157/165
	Mode 14	TX Mode 802.11ac(VHT20) Mode Channel 149/157/165
	Mode 15	TX Mode 802.11ax(HE20) Mode Channel 149/157/165
	Mode 16	TX Mode 802.11n(HT40) Mode Channel 151/159
	Mode 17	TX Mode 802.11ac(VHT40) Mode Channel 151/159
	Mode 18	TX Mode 802.11ax(HE40) Mode Channel 151/159
	Mode 19	TX Mode 802.11ac(VHT80) Mode Channel 155
	Mode 20	TX Mode 802.11ax(HE80) Mode Channel 155

Note:

- (1) For all test, we have verified the construction and function in typical operation. And all the test modes were carried out with the EUT in transmitting operation in maximum power with all kinds of data rate.

According to ANSI C63.10 standards, the measurements are performed at the highest, middle, lowest available channels, and the worst case data rate as follows:

802.11a Mode: OFDM (6 Mbps)

802.11n (HT20) Mode: MCS 0

802.11n (HT40) Mode: MCS 0

802.11ac(VHT20) Mode: MCS 0/ Nss1
802.11ac(VHT40) Mode: MCS 0/ Nss1
802.11ac(VHT80) Mode: MCS 0/ Nss1
802.11ax(HE20) Mode: MCS 0/ Nss1
802.11ax(HE40) Mode: MCS 0/ Nss1
802.11ax(HE80) Mode: MCS 0/ Nss1

- (2) During the testing procedure, the continuously transmitting with the maximum power mode was programmed by the customer.
- (3) The EUT is considered a Mobile device; it was positioned on X-plane. The worst case was found positioned on X-plane. Therefore only the test data of this X-plane was used for radiated emission measurement test.

1.6 Description of Test Software Setting

During testing channel& Power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of WLAN.

Test Software: QATool_Dbg			
U-NII-1			
Mode	Frequency (MHz)	Parameters	
		Ant. 3	Ant. 4
802.11a	5180	13	13
	5200	13	13
	5240	13	13
802.11n(HT20)	5180	12	12
	5200	12	12
	5240	12	12
802.11ac(VHT20)	5180	12	12
	5200	12	12
	5240	12	12
802.11ax(HE20)	5180	13	13
	5200	13	13
	5240	13	13
802.11n(HT40)	5190	12	12
	5230	12	12
802.11ac(VHT40)	5190	12	12
	5230	12	12
802.11ax(HE40)	5190	11	11
	5230	11	11
802.11ac(VHT80)	5210	12	12
802.11ax(HE80)	5210	12	12

U-NII-3			
Mode	Frequency (MHz)	Parameters	
		Ant.3	Ant. 4
802.11a	5745	13	13
	5785	13	13
	5825	13	13
802.11n(HT20)	5745	13	13
	5785	13	13
	5825	13	13
802.11ac(VHT20)	5745	13	13
	5785	13	13
	5825	13	13
802.11ax(HE20)	5745	13	13
	5785	13	13
	5825	13	13
802.11n(HT40)	5755	17	17
	5795	17	17
802.11ac(VHT40)	5755	17	17
	5795	17	17
802.11ax(HE40)	5755	15	15
	5795	15	15
802.11ac(VHT80)	5775	15	15
802.11ax(HE80)	5775	15	15

1.7 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U_{Lab})
Conducted Emission	Level Accuracy: 9kHz~150kHz 150kHz to 30MHz	± 3.50 dB ± 3.10 dB
Radiated Emission	Level Accuracy: 9kHz to 30 MHz	± 4.60 dB
Radiated Emission	Level Accuracy: 30MHz to 1000 MHz	± 4.50 dB
Radiated Emission	Level Accuracy: Above 1000MHz	± 4.20 dB

1.8 Test Facility

The testing was performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at: 1/F., Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

At the time of testing, the following bodies accredited the Laboratory:

CNAS (L5813)

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

A2LA Certificate No.: 4750.01

The laboratory has been accredited by American Association for Laboratory Accreditation(A2LA) to ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories for the technical competence in the field of Electrical Testing. And the A2LA Certificate No.: 4750.01.FCC Accredited Test Site Number: 854351. Designation Number: CN1223.

IC Registration No.: (11950A)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A. CAB identifier: CN0056.

2. Test Summary

FCC Part 15 Subpart E(15.407)				
Standard Section	Test Item	Sample ID	Judgment	Remark
15.203	Antenna Requirement	20210415-09-2#	PASS	N/A
15.207	Conducted Emission	20210415-09-1#	PASS	N/A
15.407(b)	Band Edge Emissions	20210415-09-2#	PASS	N/A
15.407(a)	26dB Bandwidth&99% Bandwidth	20210415-09-2#	PASS	N/A
15.407(e)	6dB Bandwidth(only for UNII-3)	20210415-09-2#	PASS	N/A
15.407(a)	AVG Output Power	20210415-09-2#	PASS	N/A
15.407(a)	Power Spectral Density	20210415-09-1# 20210415-09-2#	PASS	N/A
15.407(b)&15.209	Transmitter Spurious Emission	20210415-09-1# 20210415-09-2#	PASS	N/A
15.205	Restricted Bands	20210415-09-2#	PASS	N/A
15.407(g)	Frequency Stability	20210415-09-2#	PASS	N/A
Note: “/” for no requirement for this test item. N/A is an abbreviation for Not Applicable.				

3. Test Software

Test Item	Test Software	Manufacturer	Version No.
Conducted Emission	EZ-EMC	EZ	CDI-03A2
Radiation Emission	EZ-EMC	EZ	FA-03A2RE
RF Conducted Measurement	MTS-8310	MWRFTest	V2.0.0.0

4. Test Equipment

Conducted Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Jul. 06, 2020	Jul. 05, 2021
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Jul. 06, 2020	Jul. 05, 2021
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Jul. 06, 2020	Jul. 05, 2021
LISN	Rohde & Schwarz	ENV216	101131	Jul. 06, 2020	Jul. 05, 2021
Radiation Emission Test					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
EMI Test Receiver	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	FSV40-N	102197	Jul. 06, 2020	Jul. 05, 2021
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar.01, 2020	Feb. 28, 2022
Horn Antenna	ETS-LINDGREN	BBHA 9170	BBHA9170582	Mar.01, 2020	Feb. 28, 2022
Loop Antenna	SCHWARZBECK	FMZB 1519 B	1519B-059	Jul. 07, 2020	Jul. 06, 2021
Pre-amplifier	Sonoma	310N	185903	Feb. 25, 2021	Feb. 24, 2022
Pre-amplifier	HP	8449B	3008A00849	Feb. 25, 2021	Feb. 24, 2022
Pre-amplifier	SKET	LNPA_1840G-50	SK201904032	Feb. 25, 2021	Feb. 24, 2022
Cable	HUBER+SUHNER	100	SUCOFLEX	Feb. 25, 2021	Feb. 24, 2022
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A
Antenna Conducted Emission					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date
Spectrum Analyzer	Agilent	E4407B	MY45106456	Jul. 06, 2020	Jul. 05, 2021
Spectrum Analyzer	Rohde & Schwarz	ESPI	100010/007	Jul. 06, 2020	Jul. 05, 2021
MXA Signal Analyzer	Agilent	N9020A	MY49100060	Sep. 11, 2020	Sep. 10, 2021
Vector Signal Generator	Agilent	N5182A	MY50141294	Sep. 11, 2020	Sep. 10, 2021
Analog Signal Generator	Agilent	N5181A	MY50141953	Sep. 11, 2020	Sep. 10, 2021
RF Power Sensor	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO26	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO29	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO31	Sep. 11, 2020	Sep. 10, 2021
	DARE!! Instruments	RadiPowerRPR3006W	17I00015SNO33	Sep. 11, 2020	Sep. 10, 2021

5. Conducted Emission Test

5.1 Test Standard and Limit

5.1.1 Test Standard
FCC Part 15.207

5.1.2 Test Limit

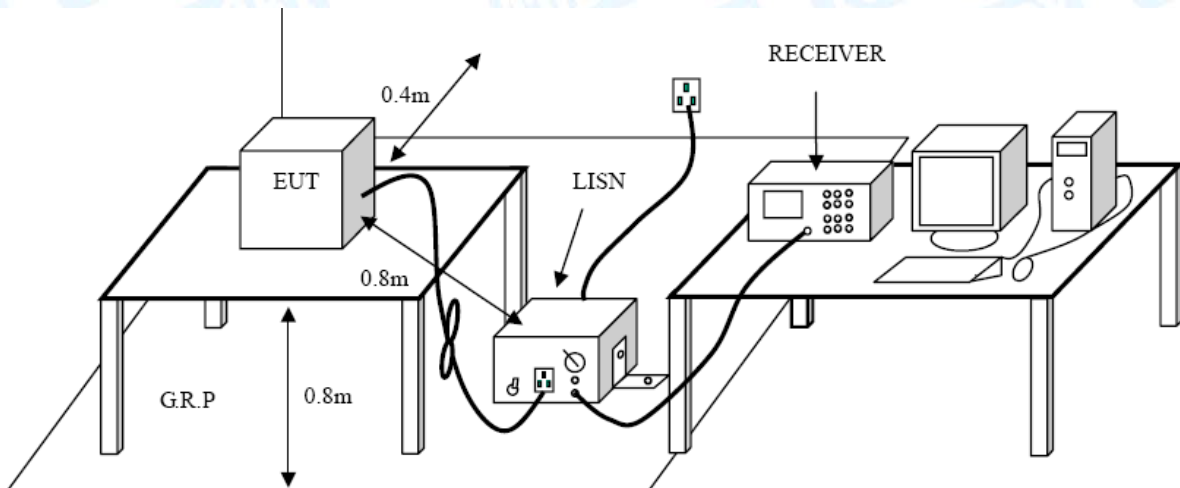
Conducted Emission Test Limit

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

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.2 Test Setup



5.3 Test Procedure

- (1) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- (2) Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- (3) I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- (4) LISN at least 80 cm from nearest part of EUT chassis.
- (5) The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

5.4 Deviation From Test Standard

No deviation

5.5 EUT Operating Mode

Please refer to the description of test mode.

5.6 Test Data

Please refer to the Attachment A.

6. Radiated and Conducted Unwanted Emissions

6.1 Test Standard and Limit

6.1.1 Test Standard
FCC Part 15.209

6.1.2 Test Limit

General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength (μV/m at 3 m)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

General field strength limits at frequencies Above 1000MHz

Frequency (MHz)	Distance of 3m (dBuV/m)	
	Peak	Average
Above 1000	74	54

Note:

- (1) The tighter limit applies at the band edges.
(2) Emission Level(dBuV/m)=20log Emission Level(uV/m)

General field strength limits at frequencies Below 30MHz

Frequency (MHz)	Field Strength (μA/m)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009~0.490	6.37/F (F in kHz)	2400/F(KHz)	300
0.490~1.705	63.7/F (F in kHz)	24000/F(KHz)	30
1.705~30.0	0.08	30	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

Limits of unwanted emission out of the restricted bands

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27(Note 2)	68.3
	10(Note 2)	105.3
	15.6(Note 2)	110.9
	27(Note 2)	122.3

NOTE:

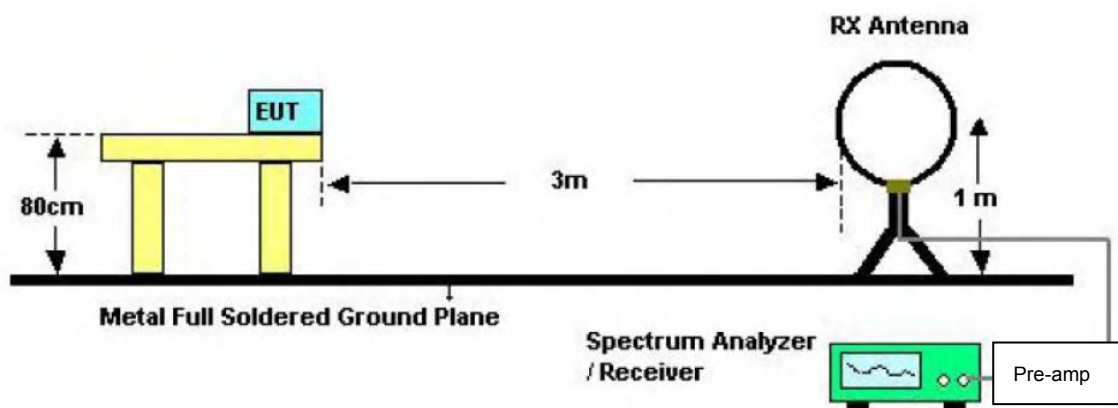
1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

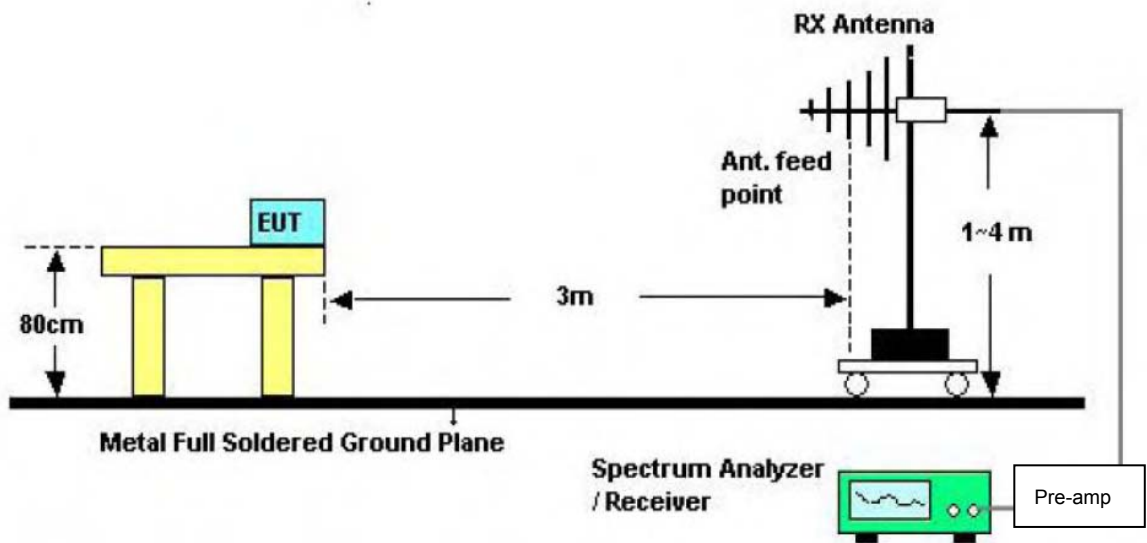
2, According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27dBm/MHz at the band edge.

6.2 Test Setup

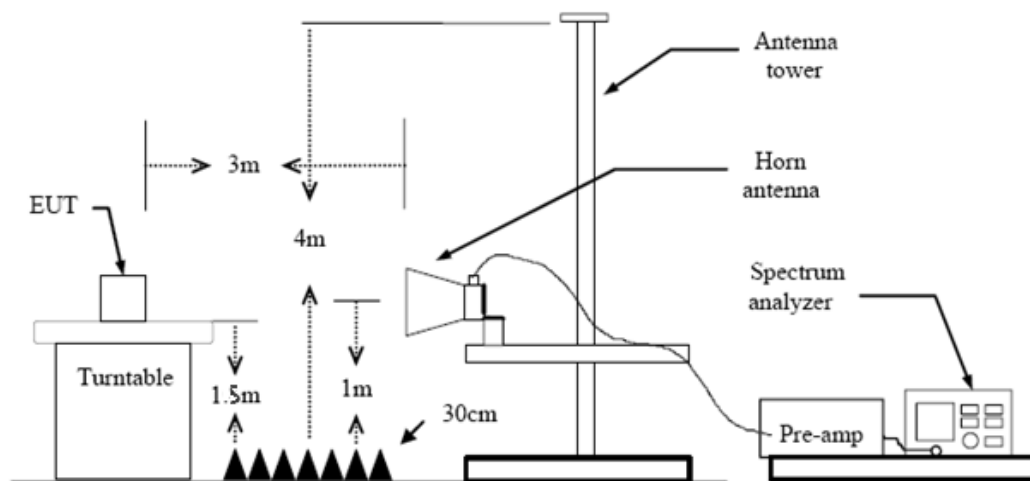
Radiated measurement



Below 30MHz Test Setup

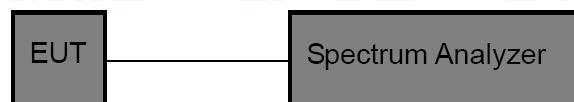


Below 1000MHz Test Setup



Above 1GHz Test Setup

Conducted measurement



6.3 Test Procedure

Radiated measurement

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical Antenna Ore set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.

Conducted measurement

Testing shall be done on a laboratory bench in a shielded room or in another suitable location. The active antenna port of the unlicensed wireless device shall be connected to the spectrum analyzer after applying appropriate precautions to protect the instrumentation. If a second antenna port is available, then it shall be tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port. (See also 7.8.8, 11.12.2, and 12.1.2.)

For the actual test configuration, please see the test setup photo.

6.4 Deviation From Test Standard

No deviation

6.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

6.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

Please refer to the Attachment B.

7. Band Edge Emissions

7.1 Test Standard and Limit

7.1.1 Test Standard
FCC Part 15.407(b)

7.1.2 Test Limit

Limits of unwanted emission out of the restricted bands

Frequency (MHz)	EIRP Limits (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150~5250	-27	68.3
5250~5350	-27	68.3
5470~5725	-27	68.3
5725~5825	-27(Note 2)	68.3
	10(Note 2)	105.3
	15.6(Note 2)	110.9
	27(Note 2)	122.3

NOTE:

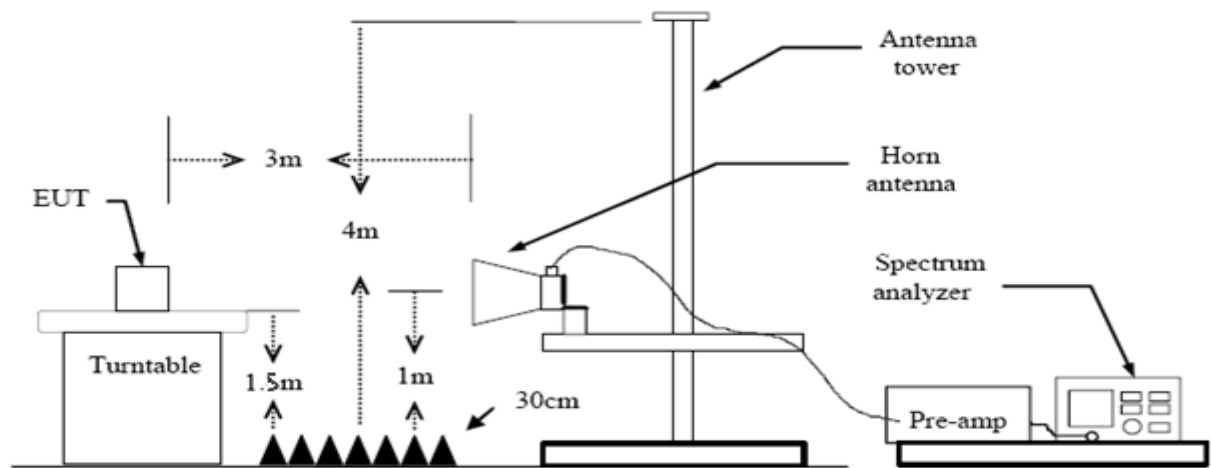
1, The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \text{ uV/m, where P is the eirp (Watts)}$$

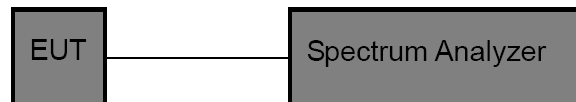
2, According to FCC 16-24, All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

7.2 Test Setup

Radiated measurement



Conducted measurement



7.3 Test Procedure

---Radiated measurement

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz. The EUT was placed on a rotating 0.8m high above the ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 1.5m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical Antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with

Quasi-peak detection.

(7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.

(8) For the actual test configuration, please see the test setup photo.

---Conducted measurement

a) Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency (see 11.12.2.3 through 11.12.2.5 for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).

b) Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP (see 11.12.2.6 for guidance on determining the applicable antenna gain).

c) Add the appropriate maximum ground reflection factor to the EIRP (6 dB for frequencies ≤ 30 MHz; 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and 0 dB for frequencies > 1000 MHz).

d) For MIMO devices, measure the power of each chain and sum the EIRP of all chains in linear terms (i.e., watts and mW).

e) Convert the resultant EIRP to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log d + 104.8$$

where

E is the electric field strength in dBuV/m

EIRP is the equivalent isotropically radiated power in dBm

d is the specified measurement distance in m

f) Compare the resultant electric field strength level with the applicable regulatory limit.

g) Perform the radiated spurious emission test.

7.4 Deviation From Test Standard

No deviation

7.5 EUT Operating Condition

The Equipment Under Test was set to Continual Transmitting in maximum power.

7.6 Test Data

Please refer to the Attachment C.

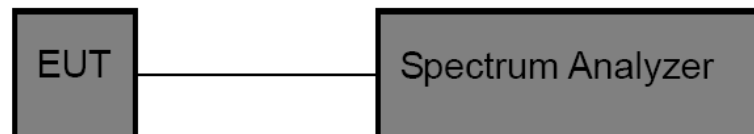
8. Bandwidth Test

8.1 Test Standard and Limit

- 8.1.1 Test Standard
FCC Part 15.407
- 8.1.2 Test Limit

RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 Bandwidth	N/A	5150~5250
		5250~5350
		5500~5725
6 dB Bandwidth	>500kHz	5725~5850

8.2 Test Setup



8.3 Test Procedure

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) The setting of the spectrum analyser as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	VBW>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	VBW>=3*RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	≥ 3RBW
Detector	Peak
Trace	Max Hold

8.4 Deviation From Test Standard

No deviation

8.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

8.6 Test Data

Please refer to the Attachment D.

9. Output Power Test

9.1 Test Standard and Limit

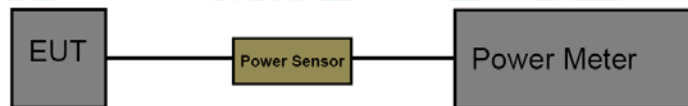
9.1.1 Test Standard

FCC Part 15.407 (a)

9.1.2 Test Limit

FCC Part 15 Subpart E(15.407)		
Test Item	Limit	Frequency Range(MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

9.2 Test Setup



9.3 Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

The EUT was connected to RF power meter via a broadband power sensor as show the block above.

9.4 Deviation From Test Standard

No deviation

9.5 EUT Operating Condition

The EUT was set to continuously transmitting in the max power during the test.

9.6 Test Date

Please refer to the Attachment E.

10. Power Spectral Density Test

10.1 Test Standard and Limit

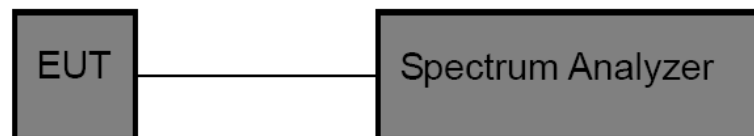
10.1.1 Test Standard

FCC Part 15.407 (a)

10.1.2 Test Limit

FCC Part 15 Subpart E(15.407)		
Test Item	Limit	Frequency Range(MHz)
Power Spectral Density	10dBm/MHz EIRP PSD	5150~5250
	11dBm/MHz	5250~5350
	11dBm/MHz	5500~5725
	30dBm/500kHz	5725~5850

9.2 Test Setup



10.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW)(alternatively, the entire 99% OBW) of the signal.
- (4) Set the RBW to: 1 MHz
- (5) Set the VBW to: 3 MHz
- (6) Detector: RMS
- (7) Trace: Max Hold
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

10.4 Deviation From Test Standard

No deviation

10.5 EUT Operating Condition

The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

10.6 Test Data

Please refer to the Attachment F.

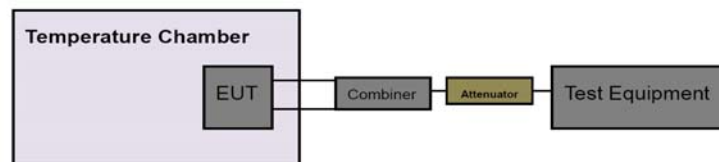
11. Frequency Stability Measurement

11.1 Test Standard and Limit

- 11.1.1 Test Standard
FCC Part 15.407
- 11.1.2 Test Limit

Test Item	Limit	Frequency Range (MHz)
Peak Excursion Measurement	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 users manual	5150~5250
		5250~5350
		5500~5720
		5725~5850

11.2 Test Setup



11.3 Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyser centre frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) of the signal.
- (4) Set the RBW to: 10 kHz, VBW=10 kHz with peak detector and maxhold settings.
- (5) The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.
- (6) Extreme temperature is 0°C~50°C

11.4 Deviation From Test Standard

No deviation

11.5 EUT Operating Condition

The EUT was set to continuously transmitting in continuously un-modulation transmitting mode.

11.6 Test Data

Please refer to the Attachment G.

12. Antenna Requirement

12.1 Standard Requirement

12.1.1 Standard

FCC Part 15.203

12.1.2 Requirement

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.

12.2 Antenna Connected Construction

The gains of the antenna used for transmitting is 5dBi, and the antenna de-signed with permanent attachment and no consideration of replacement. Please see the EUT photo for details.

12.3 Deviation From Test Standard

No deviation

12.4 Result

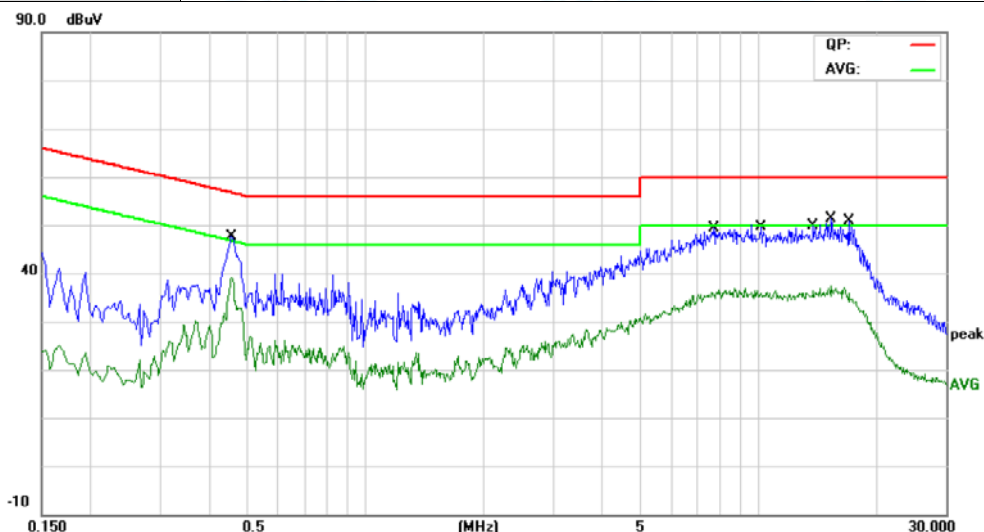
The EUT antennas is a Dipole Antenna. It complies with the standard requirement.

Antenna Type
☐ Permanent attached antenna
☒ Unique connector antenna
☐ Professional installation antenna

Attachment A--Conducted Emission Test Data

Remark: All channels have been tested and Shows only the worst channels.

Temperature:	24.6°C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Line		
Test Mode:	TX 802.11a Mode CH36		
Remark:	Only worse case is reported.		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.4580	35.45	9.70	45.15	56.73	-11.58	QP
2	*	0.4580	29.72	9.70	39.42	46.73	-7.31	AVG
3		7.6980	32.73	9.80	42.53	60.00	-17.47	QP
4		7.6980	24.56	9.80	34.36	50.00	-15.64	AVG
5		10.1300	32.74	9.81	42.55	60.00	-17.45	QP
6		10.1300	24.52	9.81	34.33	50.00	-15.67	AVG
7		13.8220	32.73	9.95	42.68	60.00	-17.32	QP
8		13.8220	24.26	9.95	34.21	50.00	-15.79	AVG
9		15.3660	33.11	10.00	43.11	60.00	-16.89	QP
10		15.3660	24.62	10.00	34.62	50.00	-15.38	AVG
11		16.9500	31.21	10.00	41.21	60.00	-18.79	QP
12		16.9500	23.17	10.00	33.17	50.00	-16.83	AVG

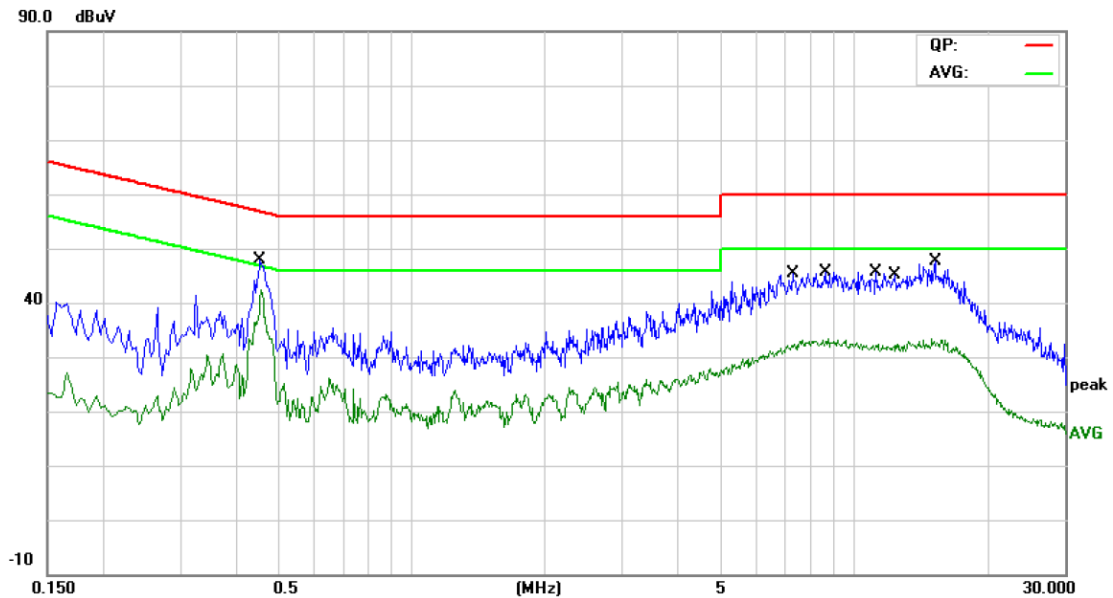
*:Maximum data x:Over limit !:over margin

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) = QuasiPeak/Average (dBuV)-Limit (dBuV)

Temperature:	24.6°C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Terminal:	Neutral		
Test Mode:	TX 802.11a Mode CH36		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.4540	34.87	9.80	44.67	56.80	-12.13	QP
2	*	0.4540	30.60	9.80	40.40	46.80	-6.40	AVG
3		7.2820	27.79	9.90	37.69	60.00	-22.31	QP
4		7.2820	21.00	9.90	30.90	50.00	-19.10	AVG
5		8.6020	28.52	9.90	38.42	60.00	-21.58	QP
6		8.6020	21.81	9.90	31.71	50.00	-18.29	AVG
7		11.2500	27.76	9.93	37.69	60.00	-22.31	QP
8		11.2500	20.74	9.93	30.67	50.00	-19.33	AVG
9		12.4100	28.24	9.95	38.19	60.00	-21.81	QP
10		12.4100	20.74	9.95	30.69	50.00	-19.31	AVG
11		15.2700	28.82	10.00	38.82	60.00	-21.18	QP
12		15.2700	20.83	10.00	30.83	50.00	-19.17	AVG

*:Maximum data x:Over limit !:over margin

Remark:

1. Corr. Factor (dB) = LISN Factor (dB) + Cable Loss (dB)

2. Margin (dB) =QuasiPeak/Average (dBuV)-Limit (dBuV)

Attachment B--Unwanted Emission Test Data

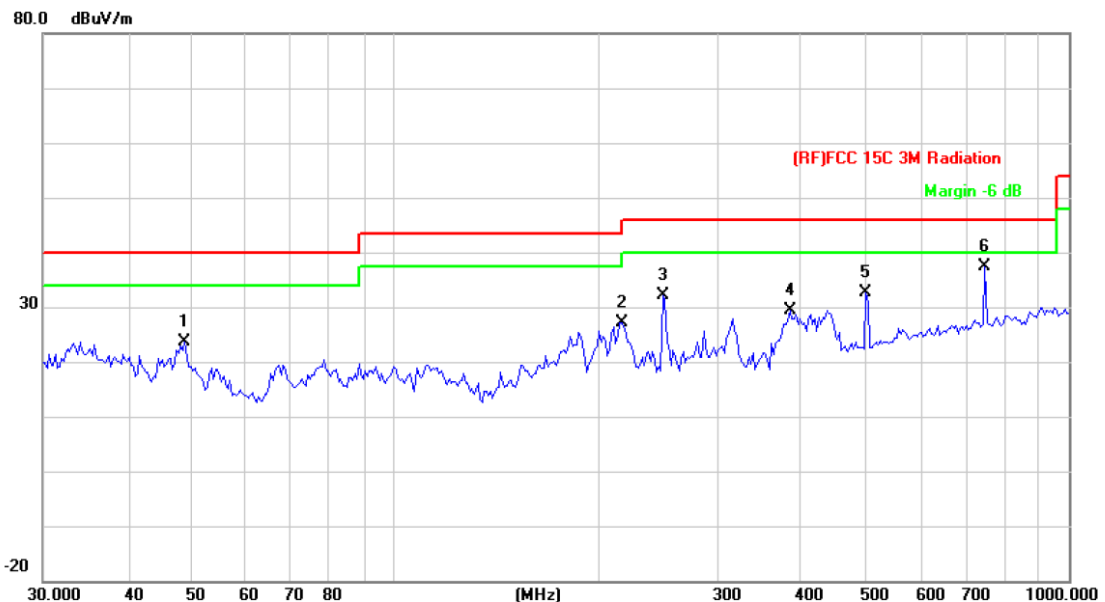
---Radiated Unwanted Emissions

From 9KHz to 30MHz: Conclusion: PASS

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz~1GHz

Temperature:	24.6 °C	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)		
Remark:	Only worse case is reported		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		48.6719	46.37	-22.62	23.75	40.00	-16.25	peak
2		216.7828	46.26	-19.04	27.22	46.00	-18.78	peak
3		249.4250	49.36	-17.25	32.11	46.00	-13.89	peak
4		385.2805	42.36	-12.98	29.38	46.00	-16.62	peak
5		499.4247	43.13	-10.48	32.65	46.00	-13.35	peak
6	*	750.1083	44.07	-6.60	37.47	46.00	-8.53	peak

*:Maximum data x:Over limit !:over margin

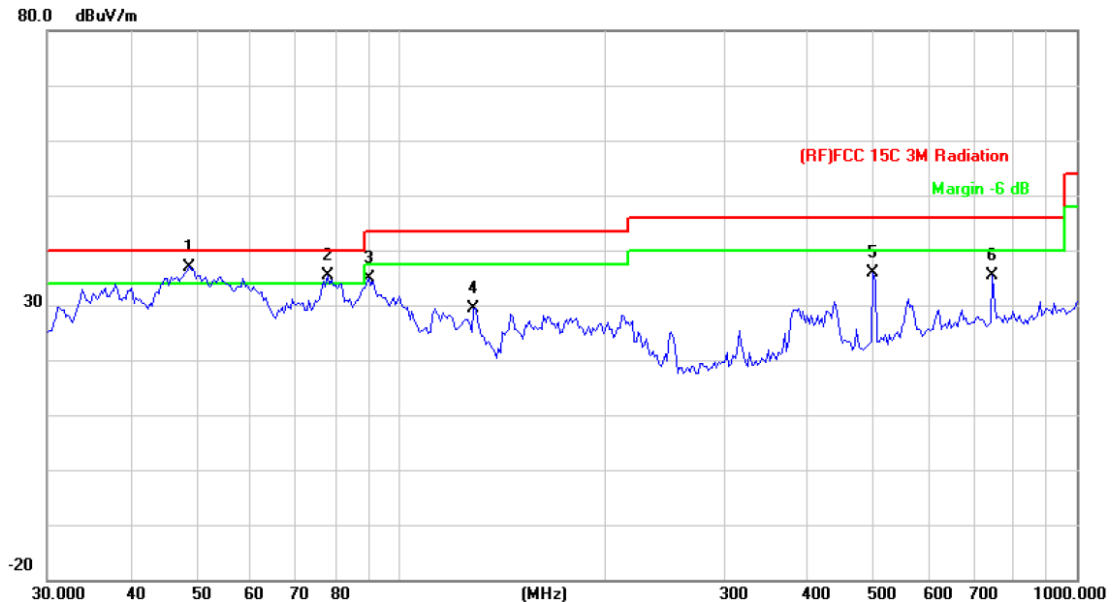
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

Temperature:	24.6 °C	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)		
Remark:	Only worse case is reported.		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	48.6719	59.44	-22.62	36.82	40.00	-3.18	QP
2	!	77.8654	57.99	-22.66	35.33	40.00	-4.67	peak
3		89.5899	56.85	-21.88	34.97	43.50	-8.53	peak
4		128.1130	51.79	-22.29	29.50	43.50	-14.00	peak
5		499.4247	46.39	-10.48	35.91	46.00	-10.09	peak
6		750.1083	42.02	-6.60	35.42	46.00	-10.58	peak

*:Maximum data x:Over limit !:over margin

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. QuasiPeak (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)
3. Margin (dB) = QuasiPeak (dBμV/m)-Limit QPK(dBμV/m)

5180MHz-5240MHz(U-NII-1)---the test mode is antenna 3+4

Temperature:	23.6℃	Relative Humidity:	43%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		10358.960	42.37	18.05	60.42	74.00	-13.58 peak
2	*	10359.549	28.48	18.05	46.53	54.00	-7.47 AVG
Remark:							
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)							
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)							
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)							
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.							
5. No report for the emission which more than 20dB below the prescribed limit.							

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5180MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10399.619	28.55	18.14	46.69	54.00	-7.31	AVG
2		10399.976	43.05	18.14	61.19	74.00	-12.81	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5200MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10396.853	31.03	18.14	49.17	54.00	-4.83	AVG
2		10396.993	42.37	18.14	60.51	74.00	-13.49	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		10481.878	42.74	18.32	61.06	74.00	-12.94 peak
2	*	10483.147	28.69	18.32	47.01	54.00	-6.99 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5240MHz (U-NII-1)		
</			

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10359.863	28.63	18.05	46.68	54.00	-7.32	AVG
2		10360.417	42.73	18.05	60.78	74.00	-13.22	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 5180MHz (U-NII-1)						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		10358.132	42.88	18.05	60.93	74.00	-13.07 peak
2	*	10363.197	31.18	18.06	49.24	54.00	-4.76 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5200MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)		
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Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11n(HT20) Mode 5240MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10476.863	31.71	18.30	50.01	54.00	-3.99	AVG
2		10477.003	42.72	18.30	61.02	74.00	-12.98	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT20) Mode 5180MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10399.528	28.38	18.14	46.52	54.00	-7.48	AVG
2		10400.462	42.49	18.14	60.63	74.00	-13.37	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT20) Mode 5200MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10397.053	30.82	18.14	48.96	54.00	-5.04	AVG
2		10403.067	42.25	18.14	60.39	74.00	-13.61	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ac(VHT20) Mode 5240MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11ac(VHT20) Mode 5240MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10479.644	30.28	18.31	48.59	54.00	-5.41	AVG
2		10480.243	42.82	18.31	61.13	74.00	-12.87	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE20) Mode 5180MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10359.573	28.65	18.05	46.70	54.00	-7.30	AVG
2		10359.716	43.49	18.05	61.54	74.00	-12.46	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE20) Mode 5180MHz (U-NII-1)		
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Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ax(HE20) Mode 5200MHz (U-NII-1)		
</			

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11 ax(HE20) Mode 5200MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		10397.632	42.66	18.14	60.80	74.00	-13.20	peak
2	*	10401.449	32.08	18.14	50.22	54.00	-3.78	AVG

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ax(HE20) Mode 5240MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11 ax(HE20) Mode 5240MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		10399.851	42.35	18.14	60.49	74.00	-13.51	peak
2	*	10400.191	31.34	18.14	49.48	54.00	-4.52	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5190MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		10379.511	42.56	18.09	60.65	74.00	-13.35	peak
2	*	10380.028	28.52	18.09	46.61	54.00	-7.39	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5230MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10379.902	28.40	18.09	46.49	54.00	-7.51	AVG
2		10380.420	42.37	18.09	60.46	74.00	-13.54	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT40) Mode 5190MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
							Detector
1		10379.719	42.50	18.09	60.59	74.00	-13.41
2	*	10380.119	29.19	18.09	47.28	54.00	-6.72

peak
AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10455.634	28.81	18.25	47.06	54.00	-6.94	AVG
2		10460.030	42.82	18.27	61.09	74.00	-12.91	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT40) Mode 5230MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		10460.156	42.78	18.27	61.05	74.00	-12.95 peak
2	*	10460.352	28.91	18.27	47.18	54.00	-6.82 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE40) Mode 5190MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE40) Mode 5190MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ax(HE40) Mode 5230MHz (U-NII-1)		

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11 ax(HE40) Mode 5230MHz (U-NII-1)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10459.663	28.77	18.27	47.04	54.00	-6.96	AVG
2		10459.864	42.21	18.27	60.48	74.00	-13.52	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6℃	Relative Humidity:	43%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		10419.513	42.55	18.19	60.74	74.00	-13.26 peak
2	*	10419.903	28.44	18.19	46.63	54.00	-7.37 AVG
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Temperature:	23.6℃	Relative Humidity:	43%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT80) Mode 5210MHz (U-NII-1)						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		10419.481	42.83	18.19	61.02	74.00	-12.98 peak
2	*	10419.570	28.56	18.19	46.75	54.00	-7.25 AVG

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE80) Mode 5210MHz (U-NII-1)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	10419.677	28.39	18.19	46.58	54.00	-7.42	AVG
2		10419.690	42.38	18.19	60.57	74.00	-13.43	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE80) Mode 5210MHz (U-NII-1)		

5745MHz-5825MHz(U-NII-3)--the test mode is antenna 3+4

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		11489.502	43.19	19.60	62.79	74.00	-11.21 peak
2	*	11490.341	27.91	19.60	47.51	54.00	-6.49 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5745MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		11490.293	45.84	19.60	65.44	74.00	-8.56 peak
2	*	11490.672	32.12	19.60	51.72	54.00	-2.28 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		11570.177	42.28	19.68	61.96	74.00	-12.04 peak
2	*	11570.304	28.07	19.68	47.75	54.00	-6.25 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11a Mode 5785MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11a Mode 5825MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		11649.637	43.83	19.76	63.59	74.00	-10.41	peak
2	*	11650.487	29.83	19.76	49.59	54.00	-4.41	AVG

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5745MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5785MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5785MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	11570.809	30.63	19.68	50.31	54.00	-3.69	AVG
2		11570.929	44.76	19.68	64.44	74.00	-9.56	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		11490.202	47.32	19.60	66.92	74.00	-7.08	peak
2	*	11490.362	31.73	19.60	51.33	54.00	-2.67	AVG
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT20) Mode 5785MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT20) Mode 5825MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE20) Mode 5745MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11 ax(HE20) Mode 5745MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	11490.002	31.75	19.60	51.35	54.00	-2.65	AVG
2		11490.202	42.10	19.60	61.70	74.00	-12.30	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Horizontal							
Test Mode:	TX 802.11 ax(HE20) Mode 5785MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	11570.084	28.25	19.68	47.93	54.00	-6.07	AVG
2		11570.087	42.74	19.68	62.42	74.00	-11.58	peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%					
Test Voltage:	AC 120V/60HZ							
Ant. Pol.	Vertical							
Test Mode:	TX 802.11 ax(HE20) Mode 5785MHz (U-NII-3)							
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	11570.356	31.45	19.68	51.13	54.00	-2.87	AVG
2		11571.350	42.51	19.68	62.19	74.00	-11.81	peak
Remark:								
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)								
2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)								
3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)								
4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.								
5. No report for the emission which more than 20dB below the prescribed limit.								

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ax(HE20) Mode 5825MHz (U-NII-3)		
</			

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11 ax(HE20) Mode 5825MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		11650.449	45.13	19.76	64.89	74.00	-9.11	peak
2	*	11650.449	31.41	19.76	51.17	54.00	-2.83	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 5755MHz (U-NII-3)						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		11507.433	43.97	19.62	63.59	74.00	-10.41 peak
2	*	11507.433	30.72	19.62	50.34	54.00	-3.66 AVG

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11n(HT40) Mode 5795MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		11509.784	43.50	19.63	63.13	74.00	-10.87 peak
2	*	11510.335	28.47	19.63	48.10	54.00	-5.90 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT40) Mode 5755MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1		11506.514	46.48	19.62	66.10	74.00	-7.90	peak
2	*	11510.460	32.13	19.63	51.76	54.00	-2.24	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)		

Temperature:	23.6°C	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT40) Mode 5795MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE40) Mode 5755MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE40) Mode 5755MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE40) Mode 5795MHz (U-NII-3)		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		11591.079	43.09	19.70	62.79	74.00	-11.21	peak
2	*	11592.897	28.06	19.71	47.77	54.00	-6.23	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE40) Mode 5795MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%				
Test Voltage:	AC 120V/60HZ						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11ac(VHT80) Mode 5775MHz (U-NII-3)						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB Detector
1		11549.529	44.18	19.66	63.84	74.00	-10.16 peak
2	*	11550.028	28.89	19.66	48.55	54.00	-5.45 AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBμV/m)= Corr. (dB/m)+ Read Level (dBμV)

3. Margin (dB) = Peak/AVG (dBμV/m)-Limit PK/AVG(dBμV/m)

4. The tests evaluated1-40GHz,The testing has been conformed to the 10th harmonic of the highest fundamental frequency.

5. No report for the emission which more than 20dB below the prescribed limit.

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ax(HE80) Mode 5775MHz (U-NII-3)		

Temperature:	23.6℃	Relative Humidity:	43%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ax(HE80) Mode 5775MHz (U-NII-3)		

---Conducted Unwanted Emissions

Test Mode	Antenna	Channel	Freq Range [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A-MIMO	Ant3	5180	30~5140	5138.21	-38.16	<=-27	PASS
			5360~40000	39975.2	-38.23	<=-27	PASS
	Ant4	5180	30~5140	5092.9	-47.12	<=-27	PASS
			5360~40000	39950.9	-39.15	<=-27	PASS
	Ant3	5200	30~5140	5114.88	-46.03	<=-27	PASS
			5360~40000	39826.2	-38.92	<=-27	PASS
	Ant4	5200	30~5140	5117.94	-47.15	<=-27	PASS
			5360~40000	39963.6	-39.17	<=-27	PASS
	Ant3	5240	30~5140	4015.24	-47.59	<=-27	PASS
			5360~40000	39941.7	-39.58	<=-27	PASS
	Ant4	5240	30~5140	5121.01	-47.2	<=-27	PASS
			5360~40000	39474.1	-39.02	<=-27	PASS
	Ant3	5745	30~1000	705.7	-54.25	<=-27	PASS
			1000~40000	39914.2	-38.95	<=-27	PASS
	Ant4	5745	30~1000	862.54	-52.99	<=-27	PASS
			1000~40000	39974	-39.25	<=-27	PASS
	Ant3	5785	30~1000	800.04	-53.42	<=-27	PASS
			1000~40000	39717.9	-39.17	<=-27	PASS
	Ant4	5785	30~1000	895.32	-52.32	<=-27	PASS
			1000~40000	40000	-38.94	<=-27	PASS
	Ant3	5825	30~1000	959.21	-52.68	<=-27	PASS
			1000~40000	39920.7	-39.29	<=-27	PASS
	Ant4	5825	30~1000	706.08	-53.96	<=-27	PASS
			1000~40000	39760.8	-39.41	<=-27	PASS
11N20MIMO	Ant3	5180	30~5140	5139.74	-37.99	<=-27	PASS
			5360~40000	39728.1	-38.83	<=-27	PASS
	Ant4	5180	30~5140	5033.29	-46.75	<=-27	PASS
			5360~40000	39750	-38.92	<=-27	PASS
	Ant3	5200	30~5140	5112.32	-46.47	<=-27	PASS
			5360~40000	39649.6	-38.86	<=-27	PASS
	Ant4	5200	30~5140	4648.52	-47.1	<=-27	PASS
			5360~40000	39983.3	-38.79	<=-27	PASS
	Ant3	5240	30~5140	5110.96	-47.93	<=-27	PASS
			5360~40000	39955.5	-39.31	<=-27	PASS
	Ant4	5240	30~5140	5091.71	-47.48	<=-27	PASS
			5360~40000	39944	-38.84	<=-27	PASS
	Ant3	5745	30~1000	773.59	-53.66	<=-27	PASS
			1000~40000	39975.3	-38.35	<=-27	PASS
	Ant4	5745	30~1000	894.48	-52.07	<=-27	PASS
			1000~40000	39970.1	-39.21	<=-27	PASS
	Ant3	5785	30~1000	777.22	-53.77	<=-27	PASS

	Ant4	5785	1000~40000	39977.9	-37.61	<=-27	PASS
			30~1000	221.52	-53.24	<=-27	PASS
			1000~40000	39329.2	-38.7	<=-27	PASS
	Ant3	5825	30~1000	706.76	-53.21	<=-27	PASS
			1000~40000	39729.6	-39.14	<=-27	PASS
	Ant4	5825	30~1000	888.41	-53.31	<=-27	PASS
			1000~40000	39494.3	-37.31	<=-27	PASS
11N40MIMO	Ant3	5190	30~5140	5132.59	-35.45	<=-27	PASS
			5360~40000	39997.1	-39.27	<=-27	PASS
	Ant4	5190	30~5140	5138.38	-46.47	<=-27	PASS
			5360~40000	39983.3	-38.01	<=-27	PASS
	Ant3	5230	30~5140	5057.99	-46.41	<=-27	PASS
			5360~40000	39986.7	-39.38	<=-27	PASS
	Ant4	5230	30~5140	5093.93	-46.83	<=-27	PASS
			5360~40000	39408.3	-39.07	<=-27	PASS
	Ant3	5755	30~1000	508.83	-51.74	<=-27	PASS
			1000~40000	39470.9	-39.07	<=-27	PASS
	Ant4	5755	30~1000	864.29	-52.85	<=-27	PASS
			1000~40000	39988.3	-38.1	<=-27	PASS
	Ant3	5795	30~1000	861.76	-52.4	<=-27	PASS
			1000~40000	39552.8	-39.35	<=-27	PASS
	Ant4	5795	30~1000	944.31	-53.48	<=-27	PASS
			1000~40000	39057.5	-39.13	<=-27	PASS
11AC20MIMO	Ant3	5180	30~5140	5133.27	-34.01	<=-27	PASS
			5360~40000	39462.5	-38.29	<=-27	PASS
	Ant4	5180	30~5140	5137.87	-46.13	<=-27	PASS
			5360~40000	39934.8	-37.86	<=-27	PASS
	Ant3	5200	30~5140	996.86	-42.96	<=-27	PASS
			5360~40000	39977.5	-37.86	<=-27	PASS
	Ant4	5200	30~5140	5039.93	-47.16	<=-27	PASS
			5360~40000	39494.9	-38.86	<=-27	PASS
	Ant3	5240	30~5140	5139.4	-47.16	<=-27	PASS
			5360~40000	39605.7	-39.1	<=-27	PASS
	Ant4	5240	30~5140	5093.25	-47.93	<=-27	PASS
			5360~40000	39471.8	-38.19	<=-27	PASS
	Ant3	5745	30~1000	869.3	-52.01	<=-27	PASS
			1000~40000	39954.5	-39.63	<=-27	PASS
	Ant4	5745	30~1000	983.92	-54.24	<=-27	PASS
			1000~40000	39634.7	-38.85	<=-27	PASS
	Ant3	5785	30~1000	828.4	-53.73	<=-27	PASS
			1000~40000	39511.2	-38.82	<=-27	PASS
	Ant4	5785	30~1000	860.41	-52.41	<=-27	PASS
			1000~40000	39746.5	-38.68	<=-27	PASS

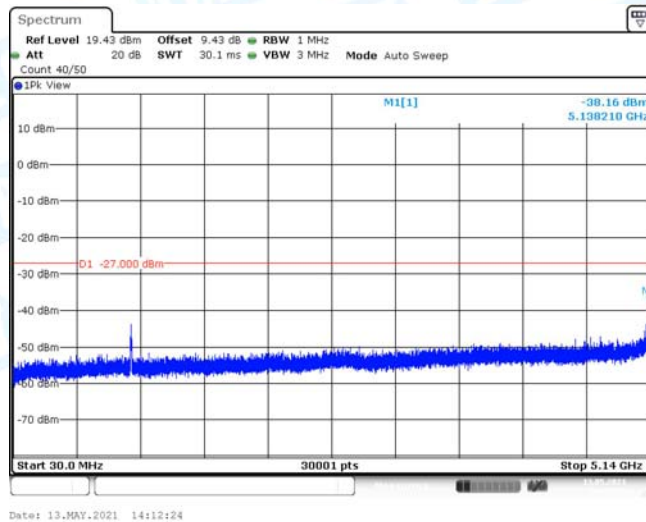
	Ant3	5825	30~1000	798.55	-53.12	<=-27	PASS
			1000~40000	39476.1	-38.35	<=-27	PASS
	Ant4	5825	30~1000	453.6	-53.29	<=-27	PASS
			1000~40000	39831	-38.24	<=-27	PASS
11AC40MIMO	Ant3	5190	30~5140	5138.21	-34.64	<=-27	PASS
			5360~40000	39987.9	-38.57	<=-27	PASS
	Ant4	5190	30~5140	5046.23	-46.9	<=-27	PASS
			5360~40000	39925.5	-39.19	<=-27	PASS
	Ant3	5230	30~5140	5095.46	-47.17	<=-27	PASS
			5360~40000	39788.1	-39.33	<=-27	PASS
	Ant4	5230	30~5140	5129.87	-46.9	<=-27	PASS
			5360~40000	39990.2	-38.76	<=-27	PASS
	Ant3	5755	30~1000	962.83	-53.79	<=-27	PASS
			1000~40000	39958.4	-38.29	<=-27	PASS
	Ant4	5755	30~1000	892.9	-52.27	<=-27	PASS
			1000~40000	39966.2	-37.11	<=-27	PASS
	Ant3	5795	30~1000	870.07	-54.17	<=-27	PASS
			1000~40000	39450.1	-39.34	<=-27	PASS
	Ant4	5795	30~1000	332.71	-53.83	<=-27	PASS
			1000~40000	39476.1	-38.9	<=-27	PASS
11AC80MIMO	Ant3	5210	30~5140	5135.66	-40.3	<=-27	PASS
			5360~40000	39505.2	-39.35	<=-27	PASS
	Ant4	5210	30~5140	5138.55	-45.12	<=-27	PASS
			5360~40000	39601.1	-39.18	<=-27	PASS
	Ant3	5775	30~1000	959.08	-53.65	<=-27	PASS
			1000~40000	39941.5	-37.27	<=-27	PASS
11AX20MIMO	Ant4	5775	30~1000	871.92	-52.96	<=-27	PASS
			1000~40000	39561.9	-38.61	<=-27	PASS
	Ant3	5180	30~5140	5136.68	-32.8	<=-27	PASS
			5360~40000	39983.3	-38.17	<=-27	PASS
	Ant4	5180	30~5140	5058.33	-46.1	<=-27	PASS
			5360~40000	39978.6	-38.55	<=-27	PASS
	Ant3	5200	30~5140	5138.04	-41.38	<=-27	PASS
			5360~40000	39986.7	-38.77	<=-27	PASS
	Ant4	5200	30~5140	5125.78	-47.15	<=-27	PASS
			5360~40000	39961.3	-37.85	<=-27	PASS
	Ant3	5240	30~5140	5071.61	-47.75	<=-27	PASS
			5360~40000	39992.5	-38.58	<=-27	PASS
	Ant4	5240	30~5140	5099.72	-47.36	<=-27	PASS
			5360~40000	39588.4	-39.05	<=-27	PASS
	Ant3	5745	30~1000	978	-52.96	<=-27	PASS
			1000~40000	39974	-38.86	<=-27	PASS
	Ant4	5745	30~1000	890.57	-52.73	<=-27	PASS

	Ant3	5785	1000~40000	39953.2	-39.46	<=-27	PASS
			30~1000	509.02	-52.28	<=-27	PASS
			1000~40000	39977.9	-38.78	<=-27	PASS
	Ant4	5785	30~1000	863.51	-52.54	<=-27	PASS
			1000~40000	39963.6	-38.42	<=-27	PASS
	Ant3	5825	30~1000	867.52	-54.31	<=-27	PASS
			1000~40000	39680.2	-38.89	<=-27	PASS
	Ant4	5825	30~1000	892.38	-53.43	<=-27	PASS
			1000~40000	39459.2	-39.24	<=-27	PASS
11AX40MIMO	Ant3	5190	30~5140	5132.08	-34.83	<=-27	PASS
			5360~40000	39337.8	-39.24	<=-27	PASS
	Ant4	5190	30~5140	5116.07	-46.47	<=-27	PASS
			5360~40000	39788.1	-39.16	<=-27	PASS
	Ant3	5230	30~5140	5105.51	-45.78	<=-27	PASS
			5360~40000	39950.9	-38.93	<=-27	PASS
	Ant4	5230	30~5140	4909.97	-47.48	<=-27	PASS
			5360~40000	39411.7	-39.28	<=-27	PASS
	Ant3	5755	30~1000	855.17	-53.12	<=-27	PASS
			1000~40000	39971.4	-38.61	<=-27	PASS
	Ant4	5755	30~1000	709.06	-52.48	<=-27	PASS
			1000~40000	39985.7	-39.16	<=-27	PASS
11AX80MIMO	Ant3	5210	30~5140	5137.36	-38.05	<=-27	PASS
			5360~40000	39484.5	-37.61	<=-27	PASS
	Ant4	5210	30~5140	5134.46	-44.25	<=-27	PASS
			5360~40000	39965.9	-39.3	<=-27	PASS
	Ant3	5775	30~1000	721.28	-53.75	<=-27	PASS
			1000~40000	39997.4	-39.35	<=-27	PASS
	Ant4	5775	30~1000	890.09	-53.09	<=-27	PASS
			1000~40000	39953.2	-38.97	<=-27	PASS

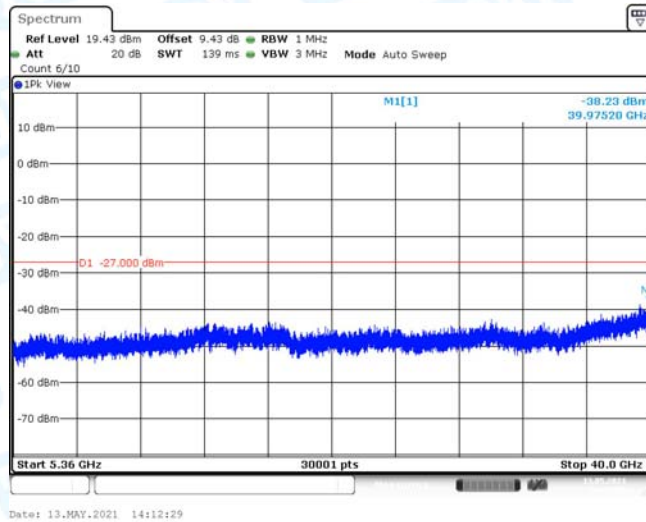
Note: The Antenna Gain is compensated in the graph.

Test Graphs

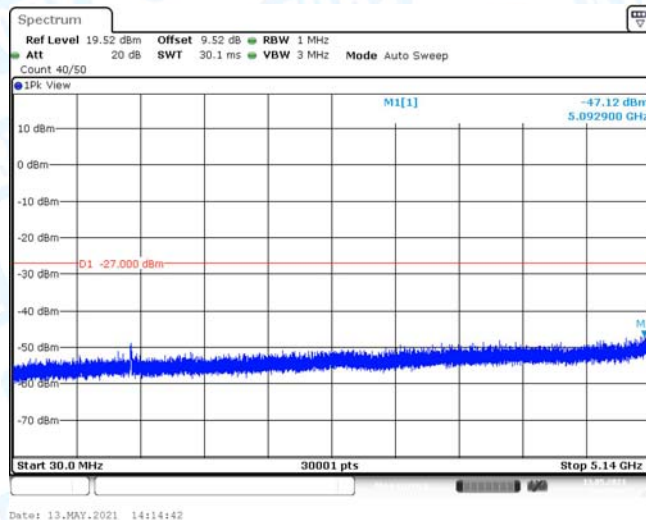
11A-MIMO_Ant3_5180_30~5140



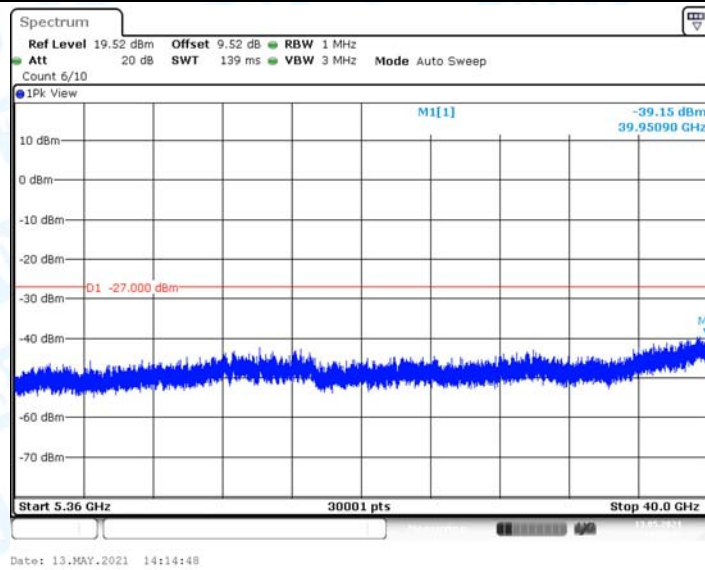
11A-MIMO_Ant3_5180_5360~40000



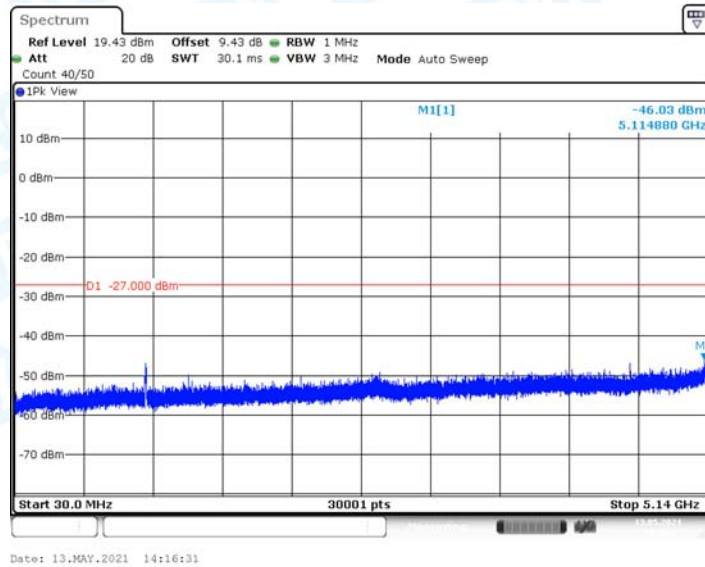
11A-MIMO_Ant4_5180_30~5140



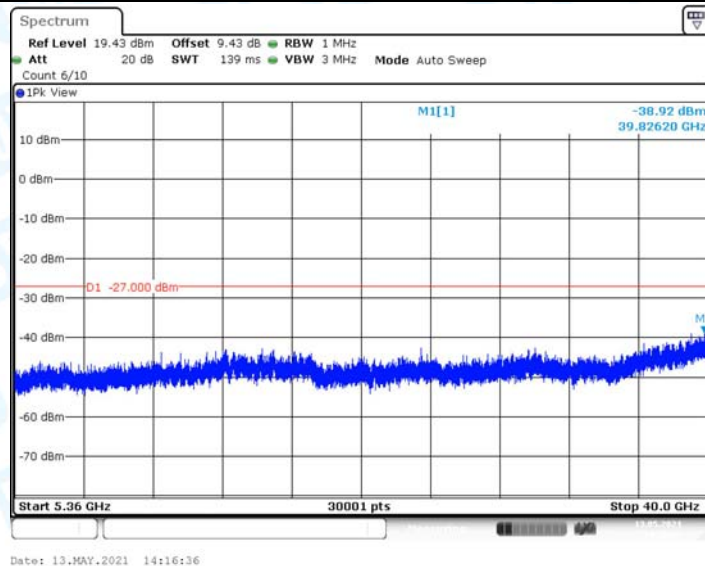
11A-MIMO_Ant4_5180_5360~40000



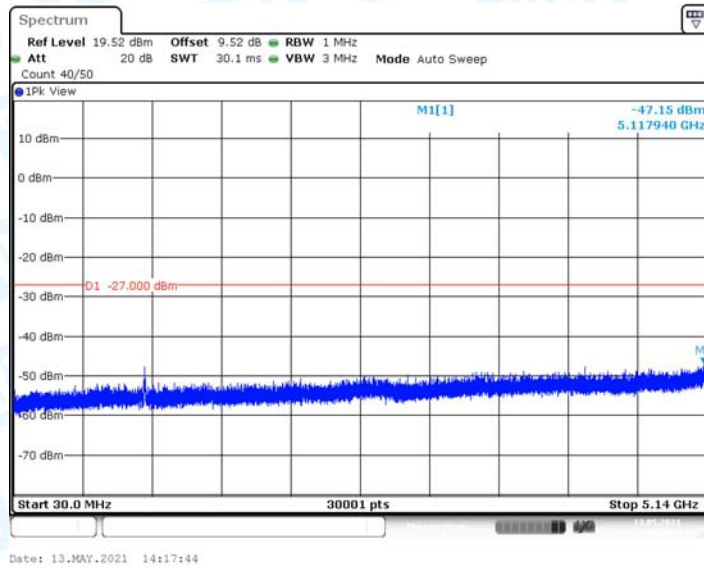
11A-MIMO_Ant3_5200_30~5140



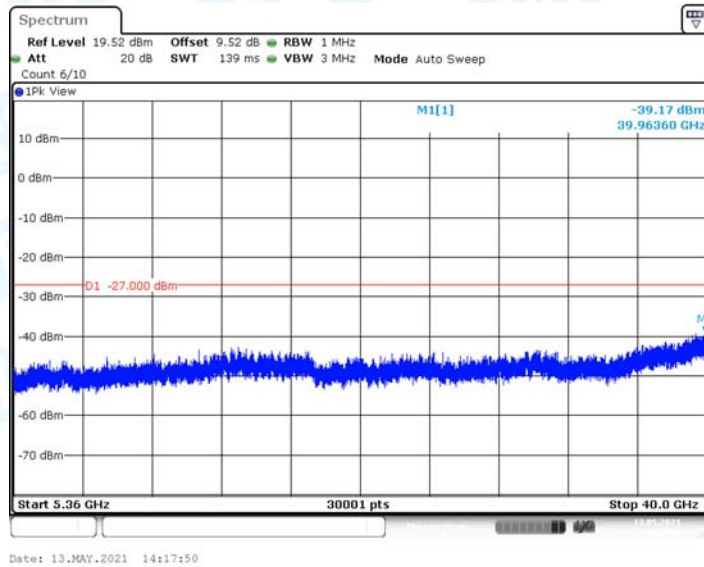
11A-MIMO_Ant3_5200_5360~40000



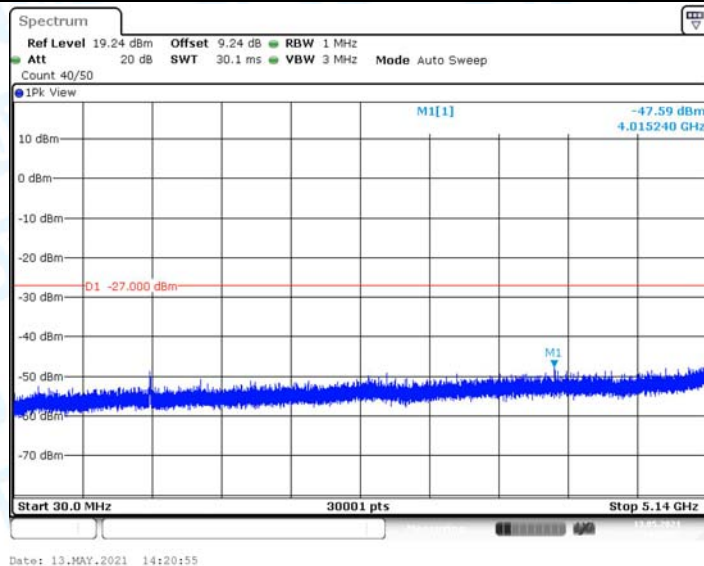
11A-MIMO_Ant4_5200_30~5140



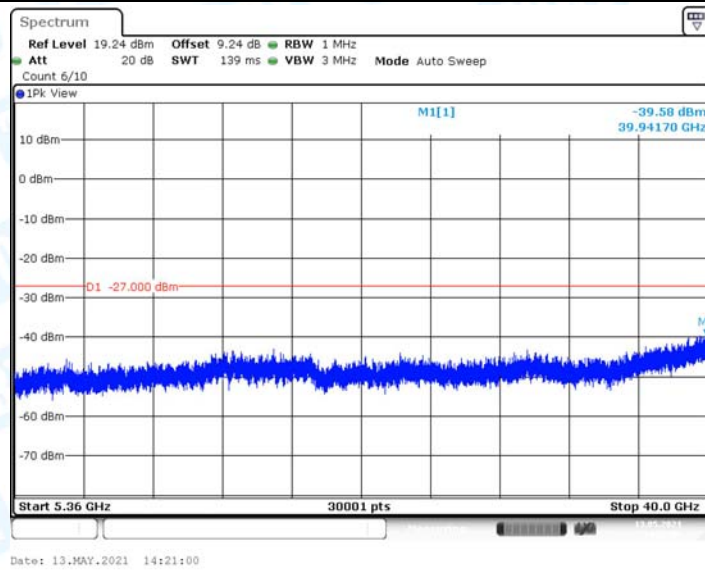
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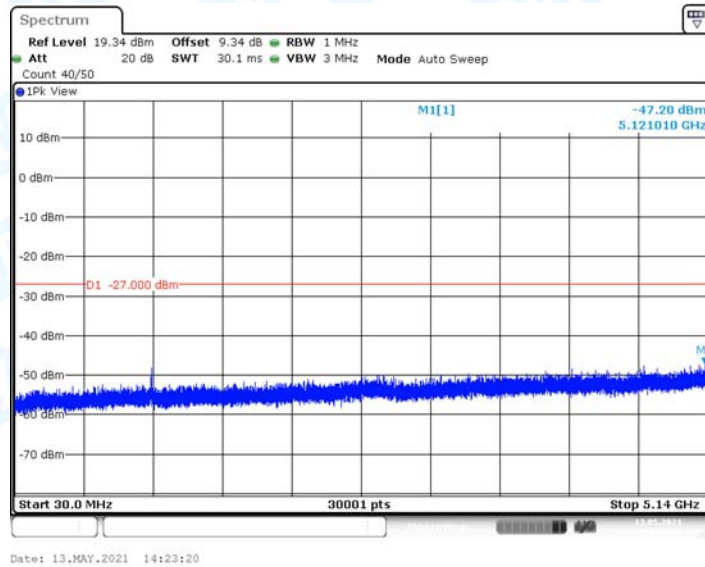
11A-MIMO_Ant3_5240_30~5140



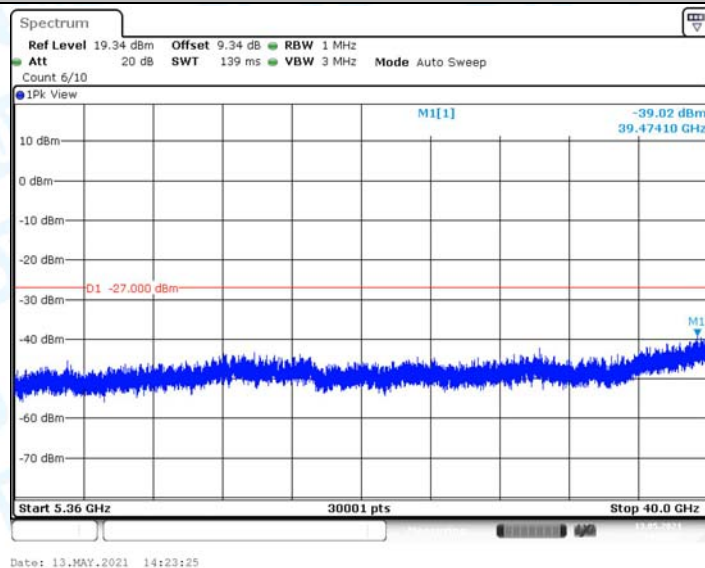
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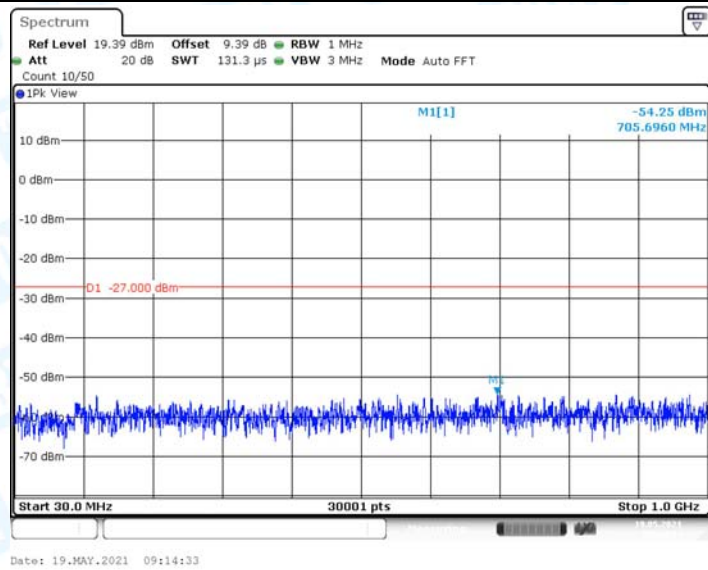
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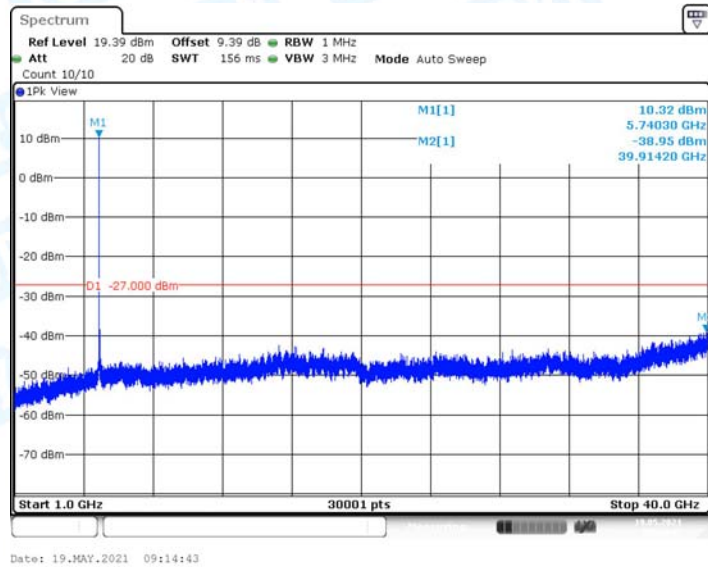
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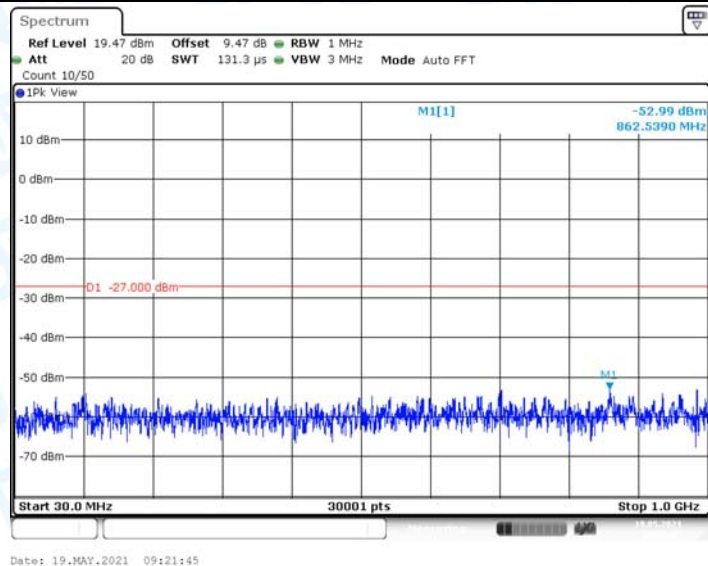
11A-MIMO_Ant3_5745_30~1000



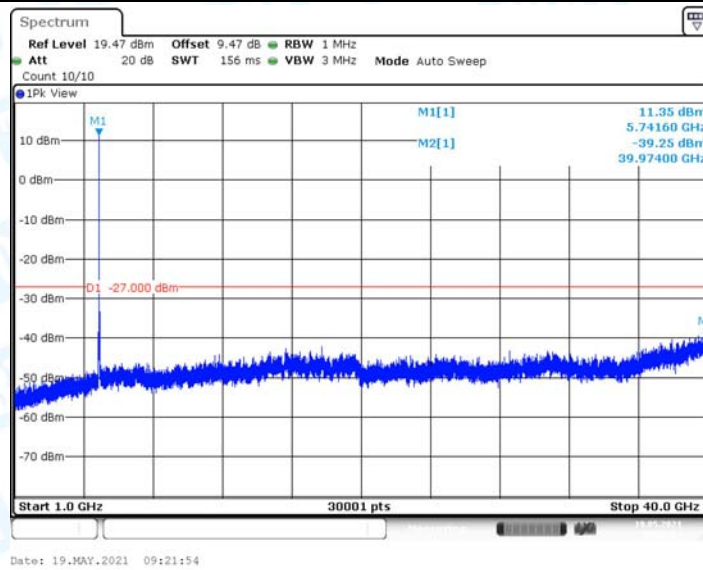
11A-MIMO_Ant3_5745_1000~40000



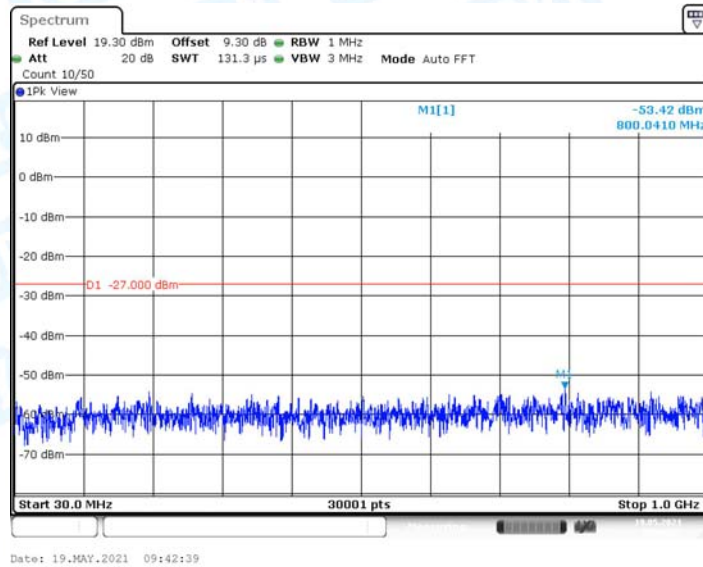
11A-MIMO_Ant4_5745_30~1000



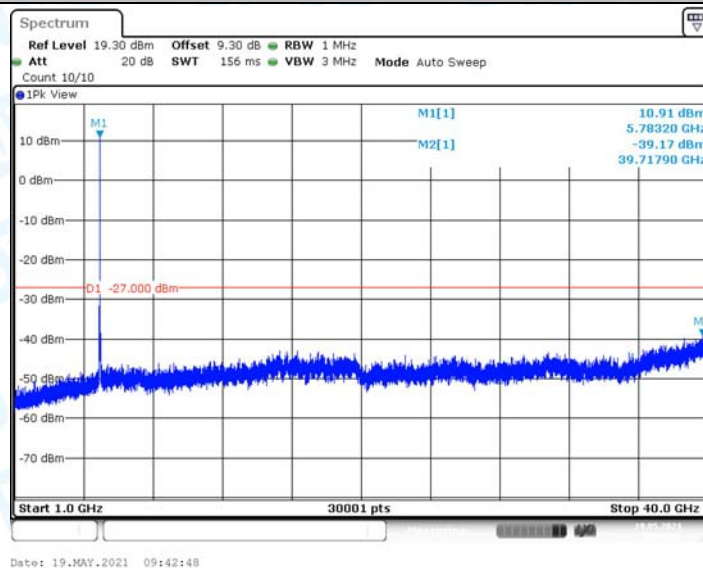
11A-MIMO_Ant4_5745_1000~40000



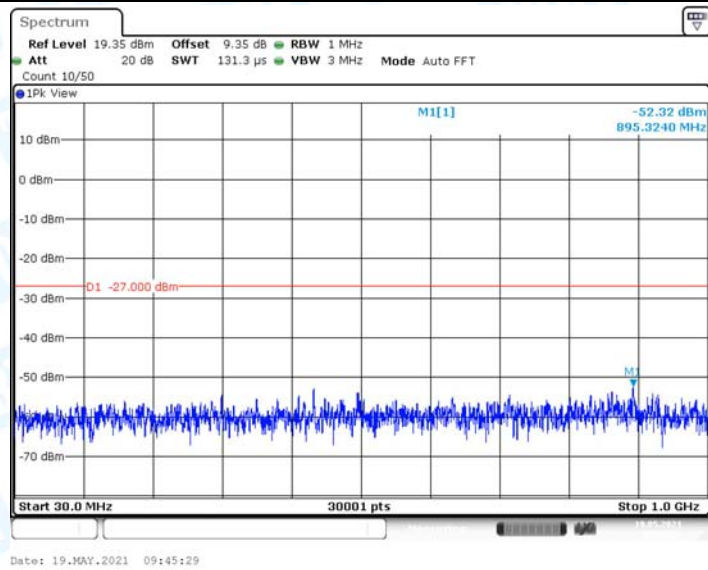
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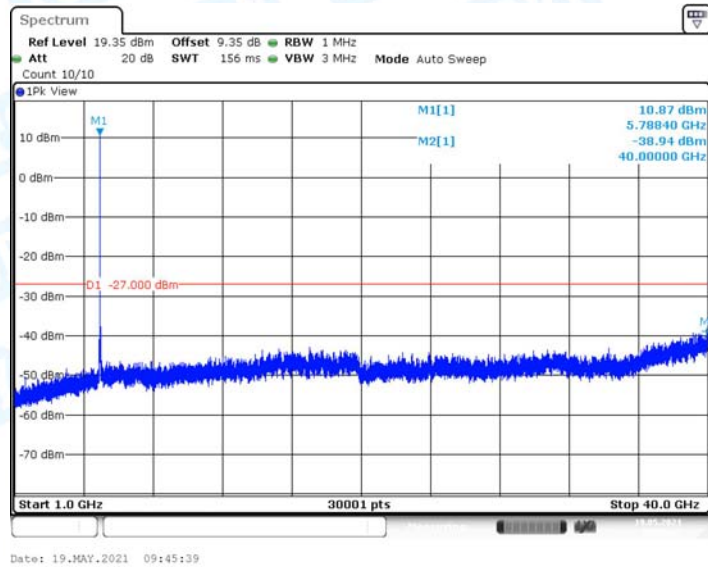
11A-MIMO_Ant3_5785_1000~40000



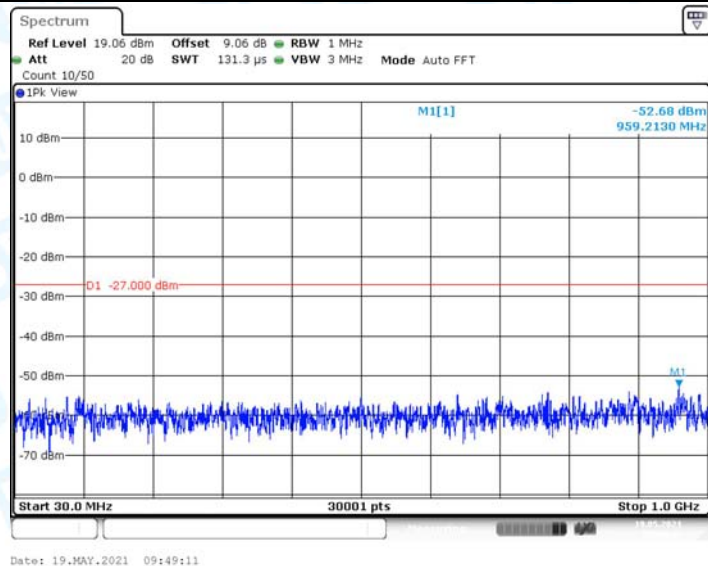
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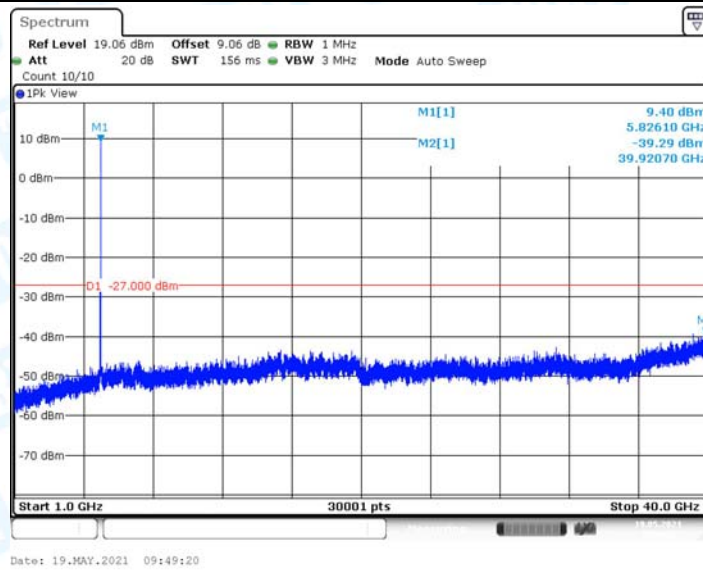
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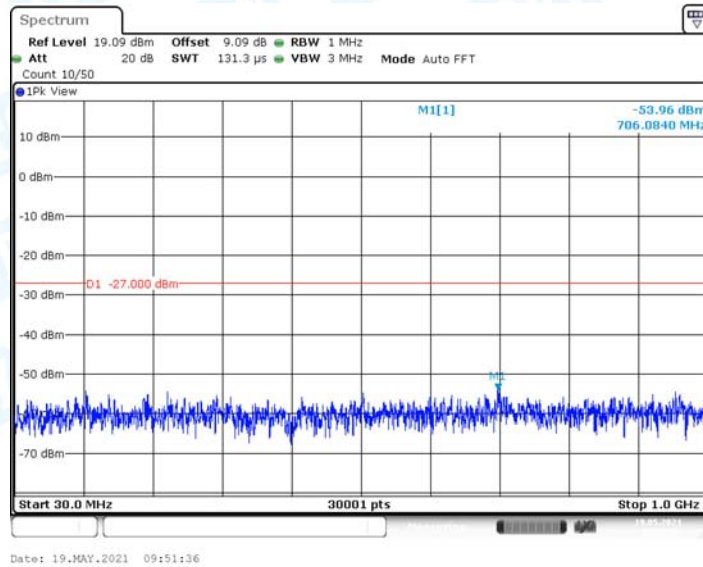
11A-MIMO_Ant3_5825_30~1000



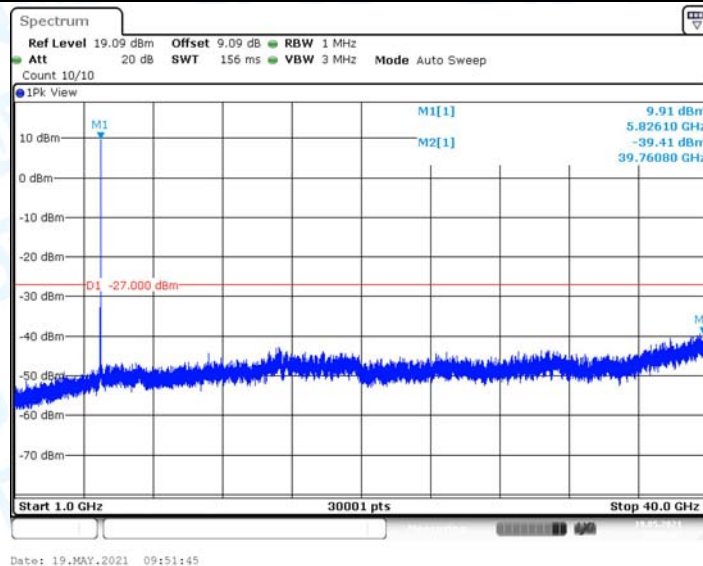
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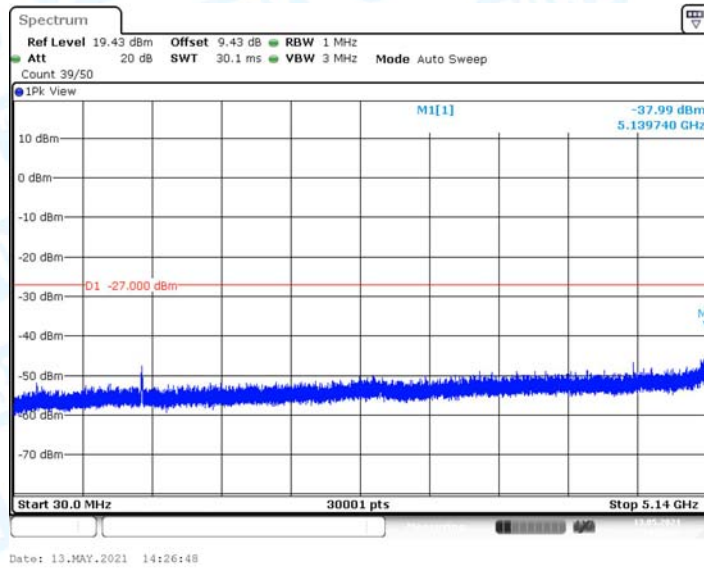
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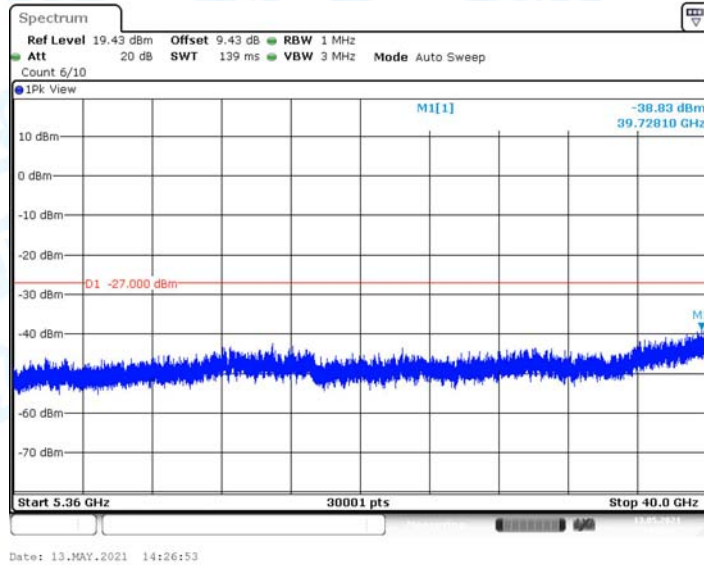
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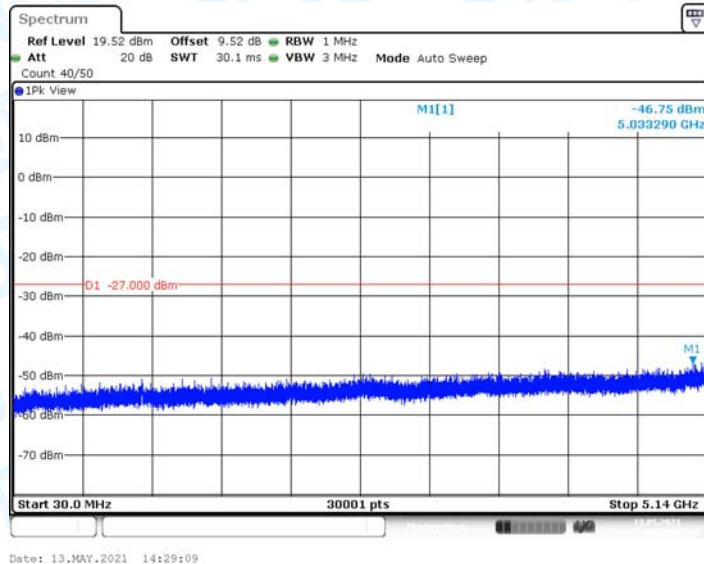
11N20MIMO_Ant3_5180_30~5140



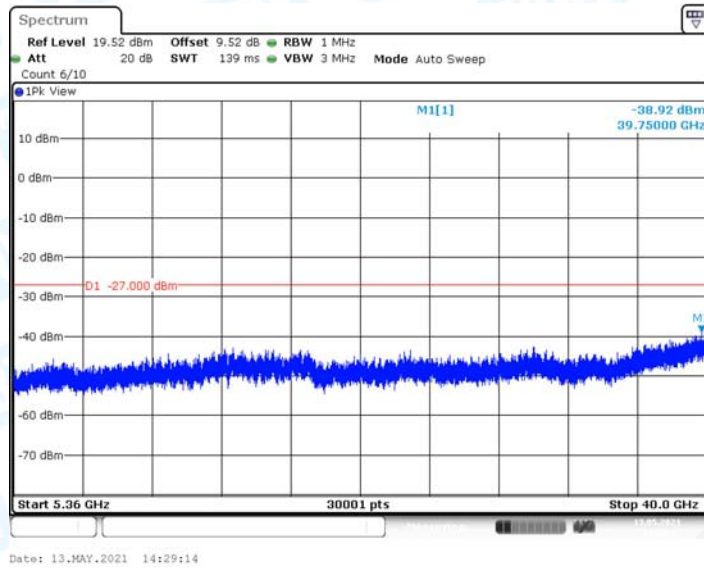
11N20MIMO_Ant3_5180_5360~40000



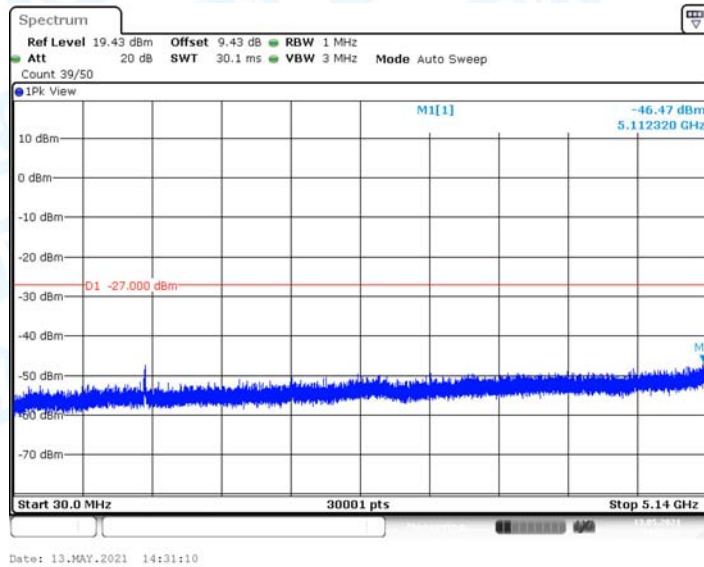
11N20MIMO_Ant4_5180_30~5140



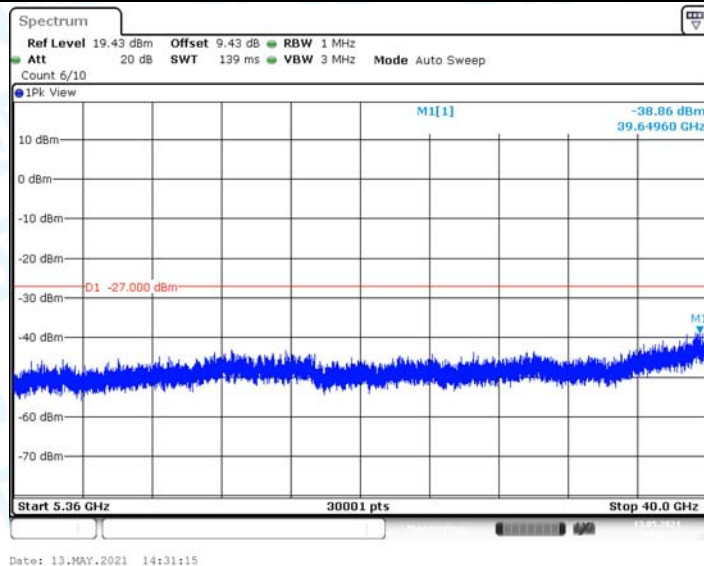
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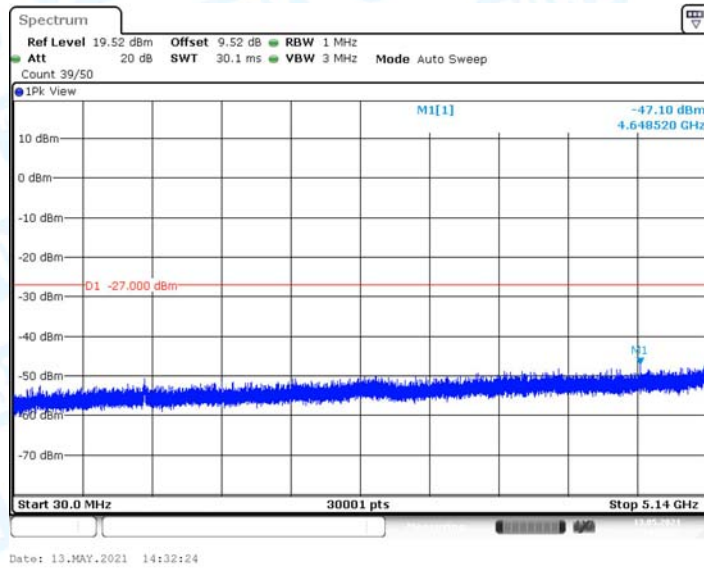
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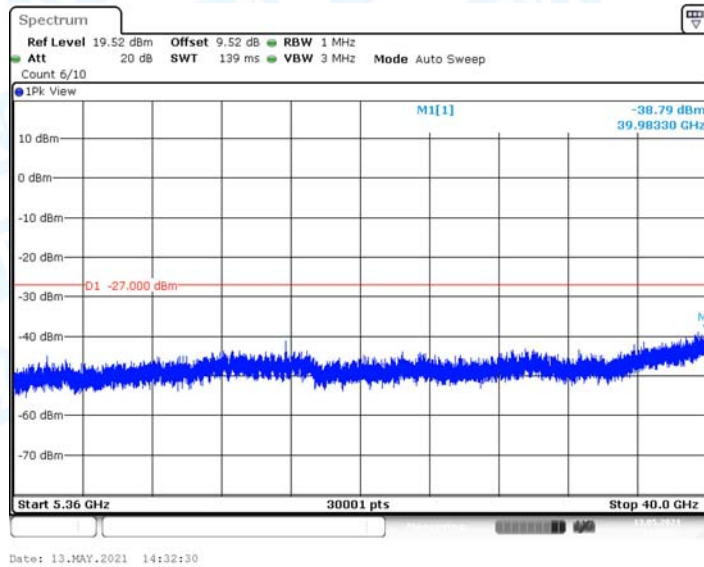
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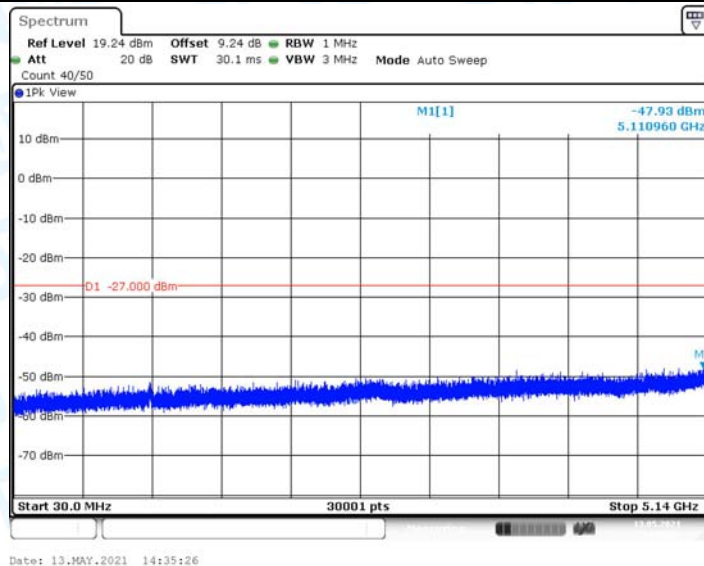
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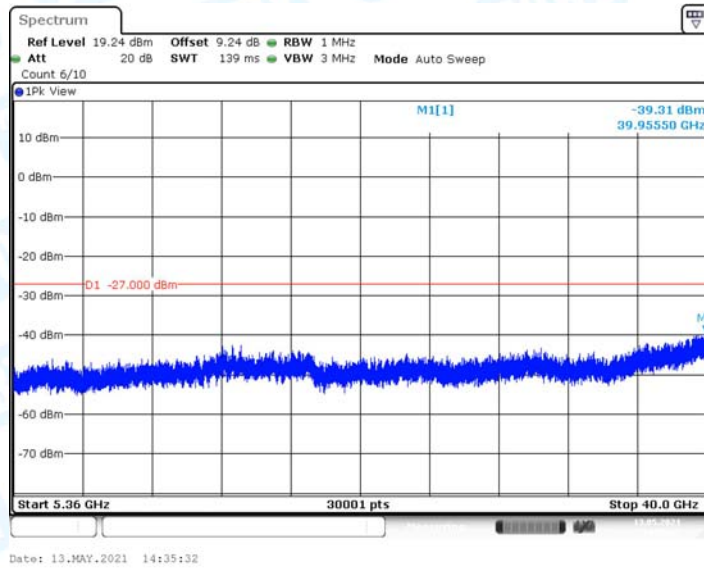
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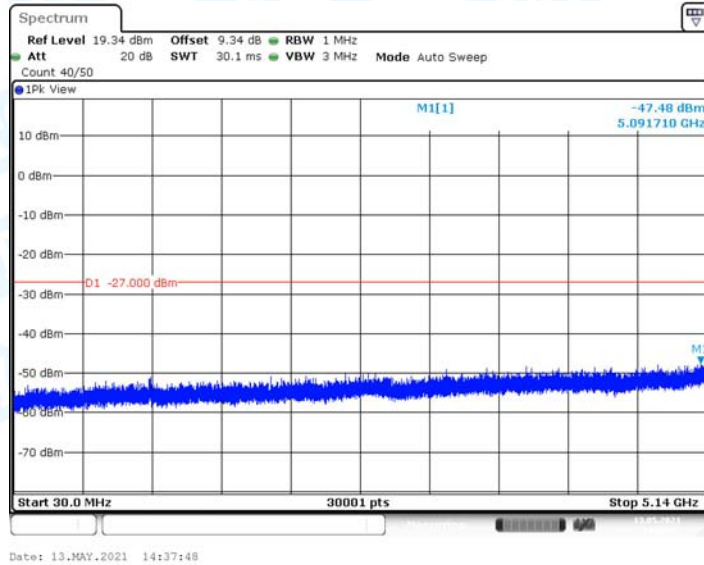
11N20MIMO_Ant3_5240_30~5140



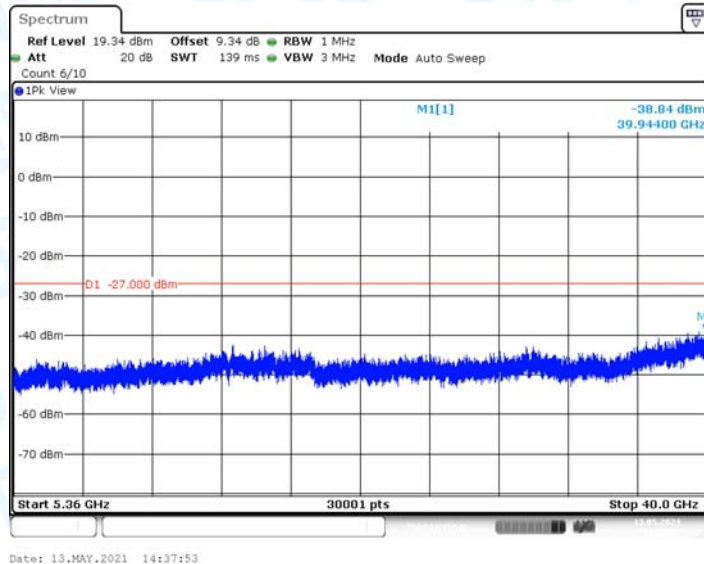
11N20MIMO_Ant3_5240_5360~40000



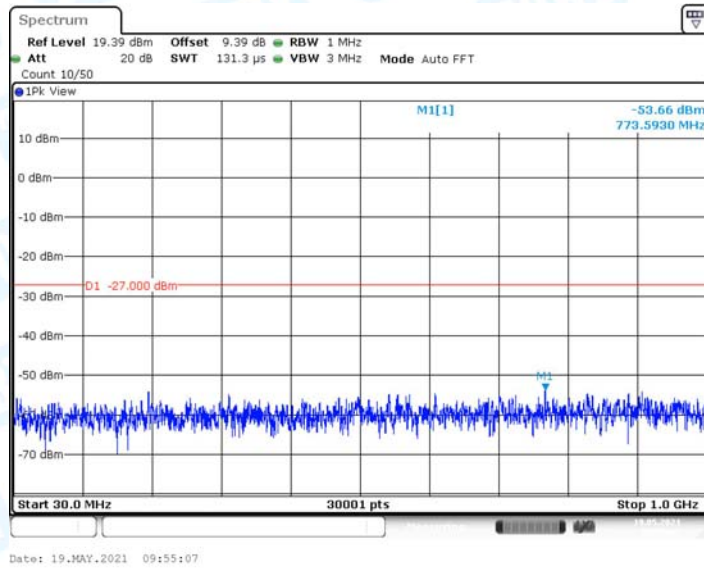
11N20MIMO_Ant4_5240_30~5140



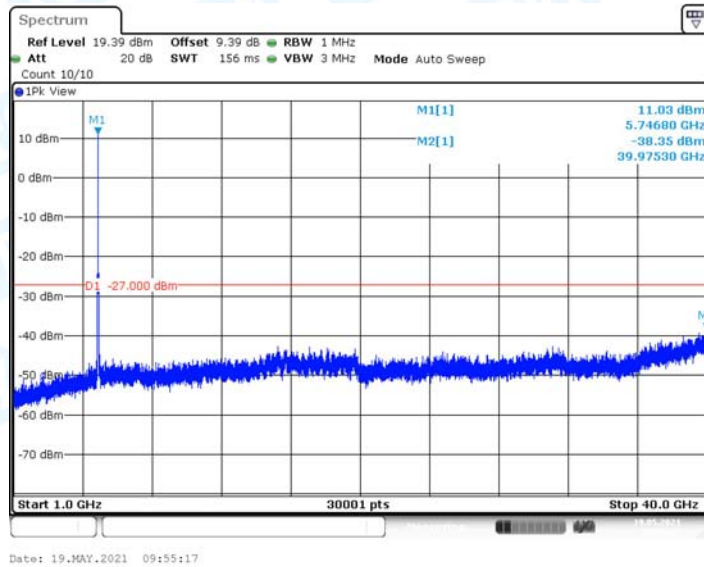
11N20MIMO_Ant4_5240_5360~40000



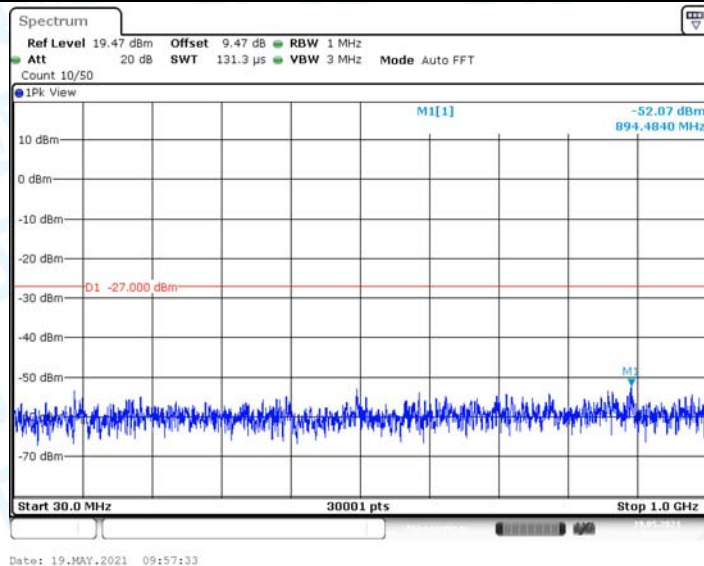
11N20MIMO_Ant3_5745_30~1000



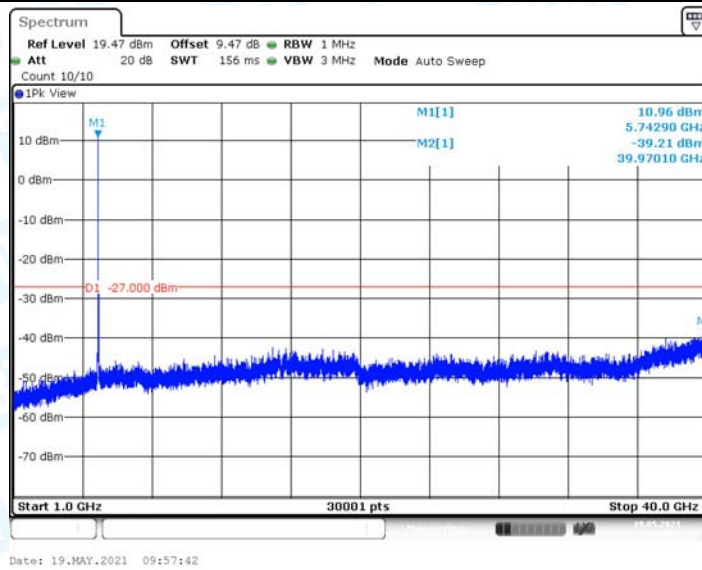
11N20MIMO_Ant3_5745_1000~40000



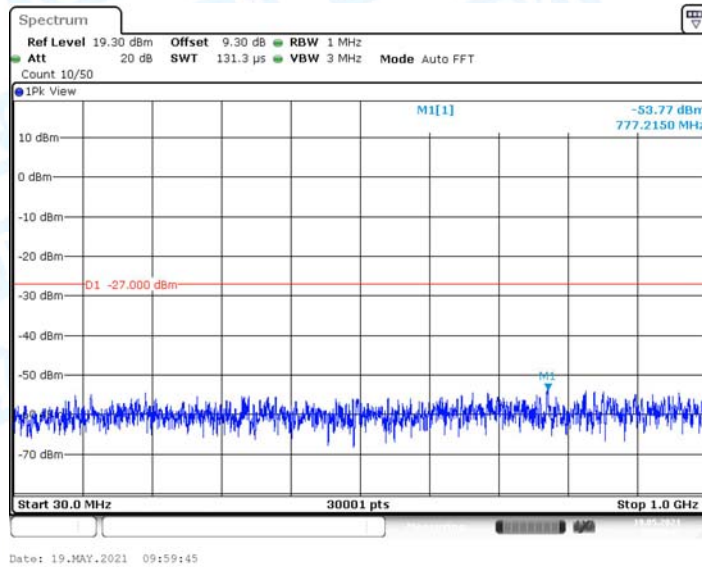
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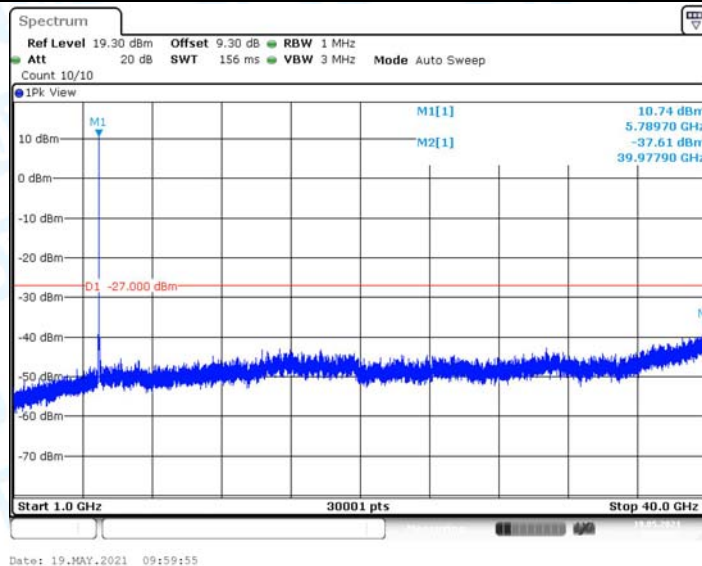
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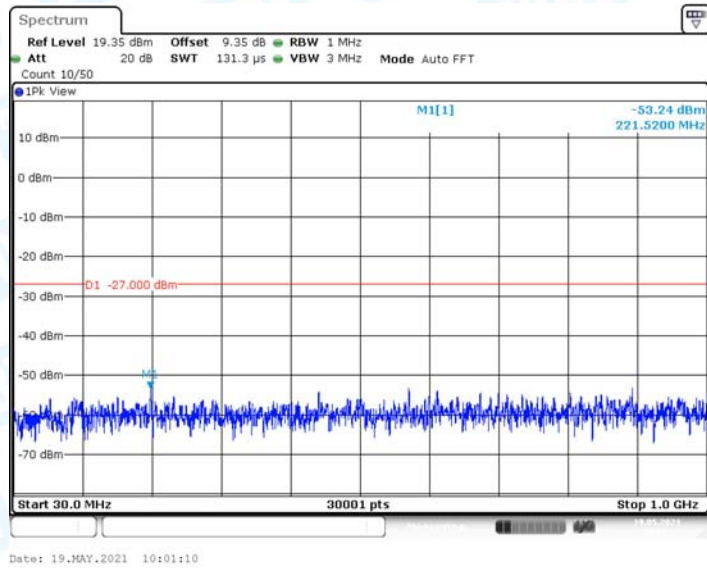
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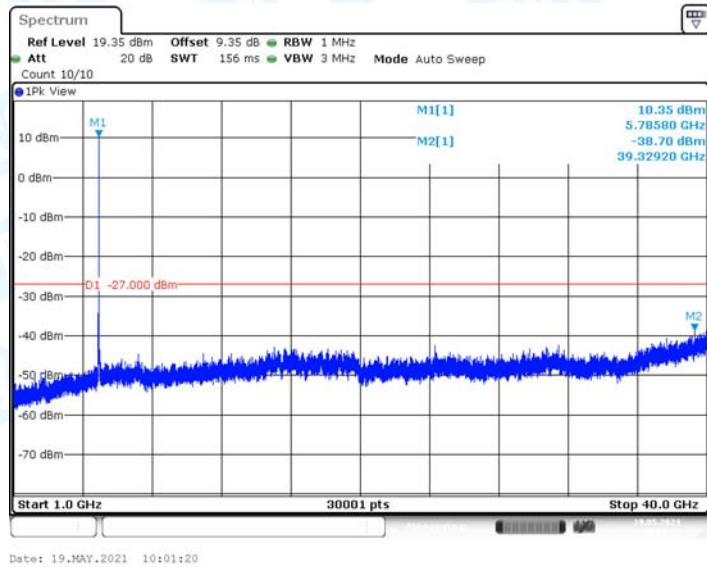
11N20MIMO_Ant3_5785_1000~40000



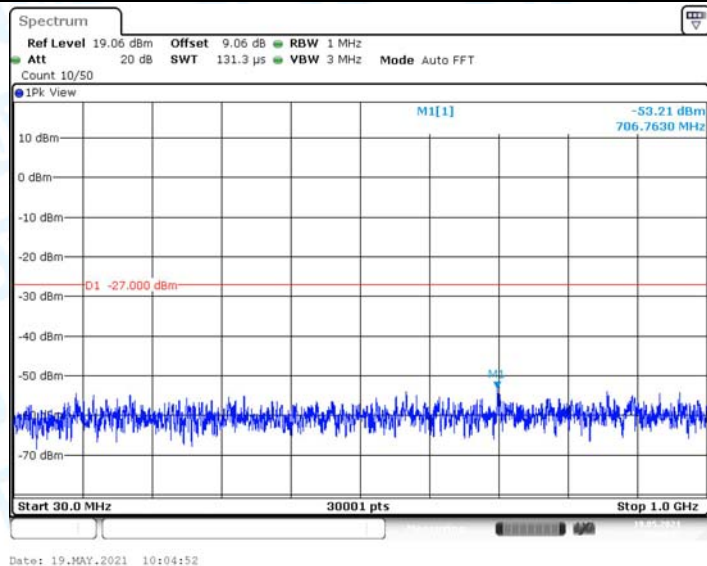
11N20MIMO_Ant4_5785_30~1000



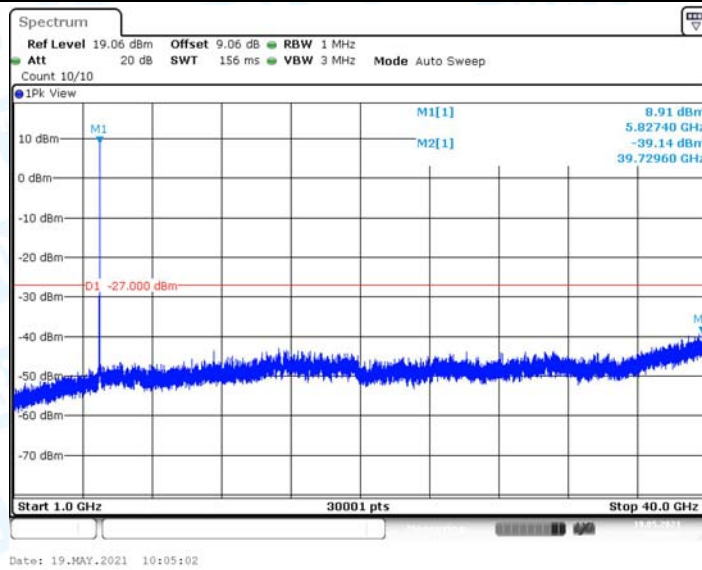
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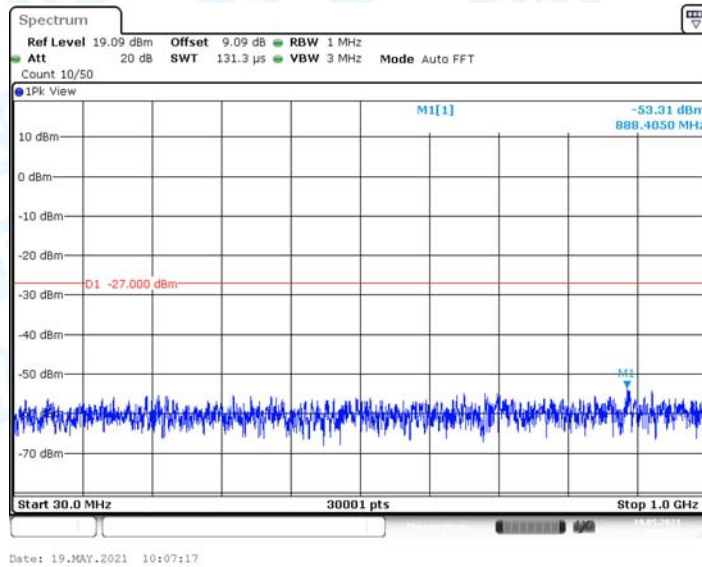
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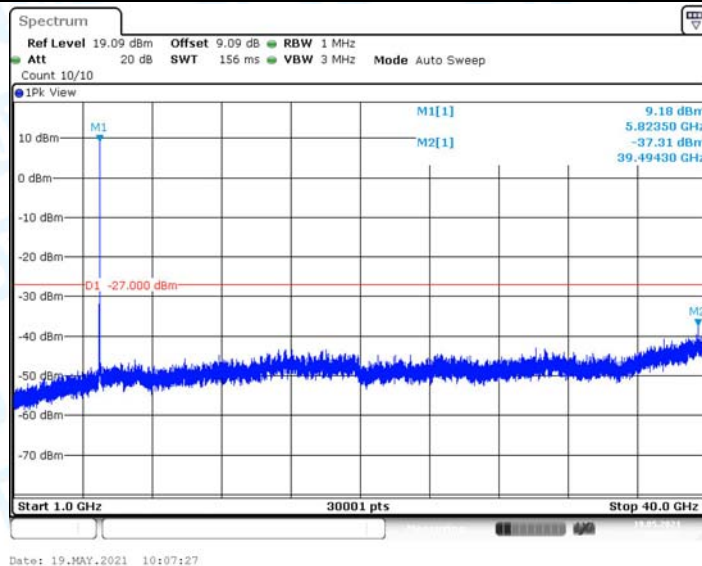
11N20MIMO_Ant3_5825_1000~40000



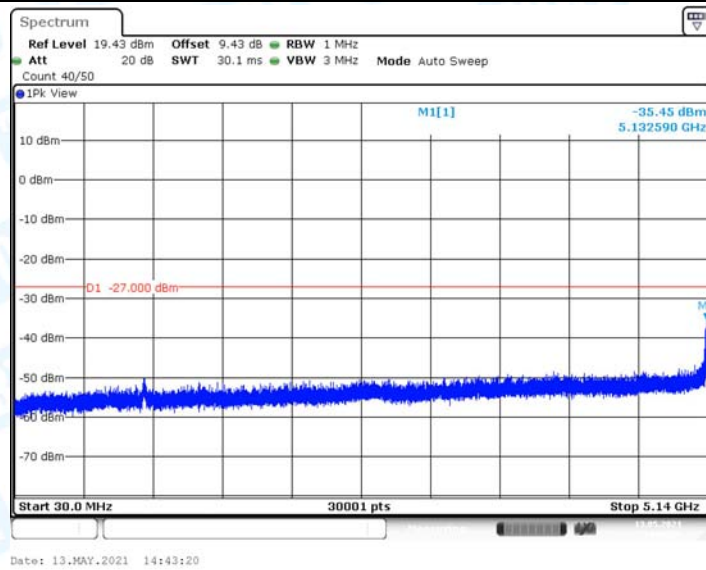
11N20MIMO_Ant4_5825_30~1000



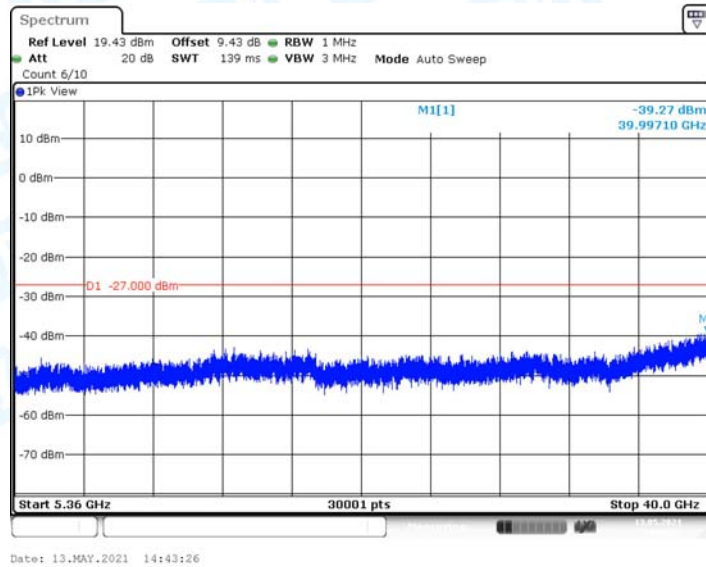
11N20MIMO_Ant4_5825_1000~40000



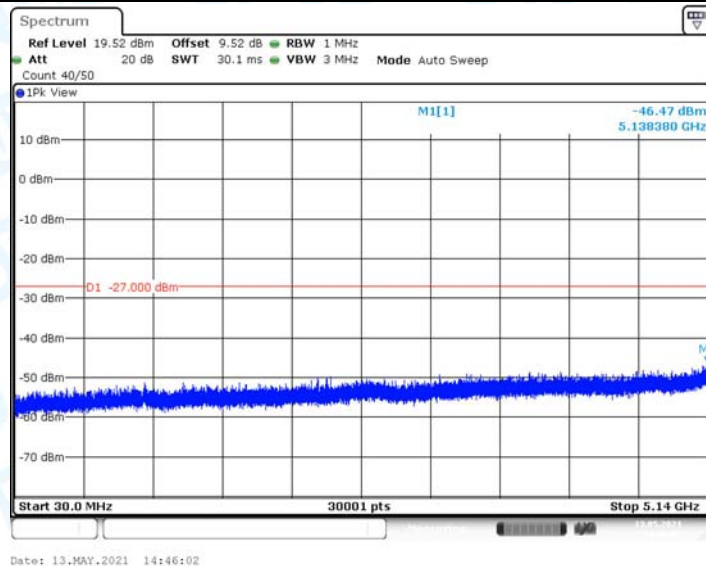
11N40MIMO_Ant3_5190_30~5140



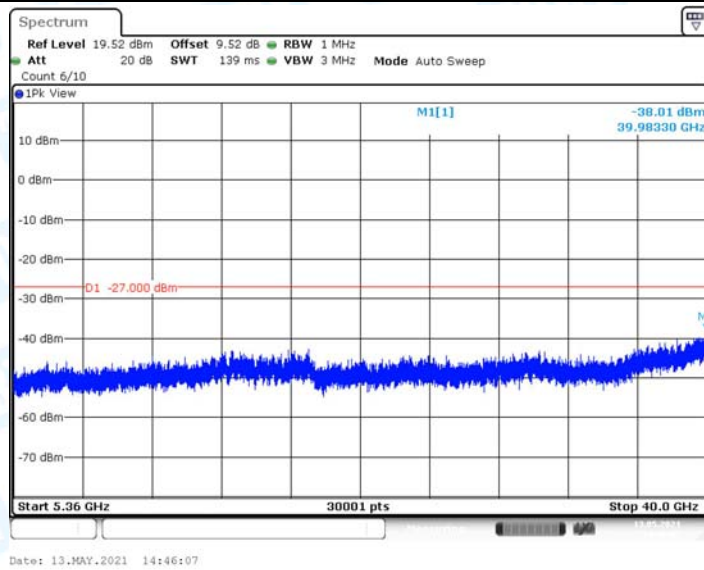
11N40MIMO_Ant3_5190_5360~40000



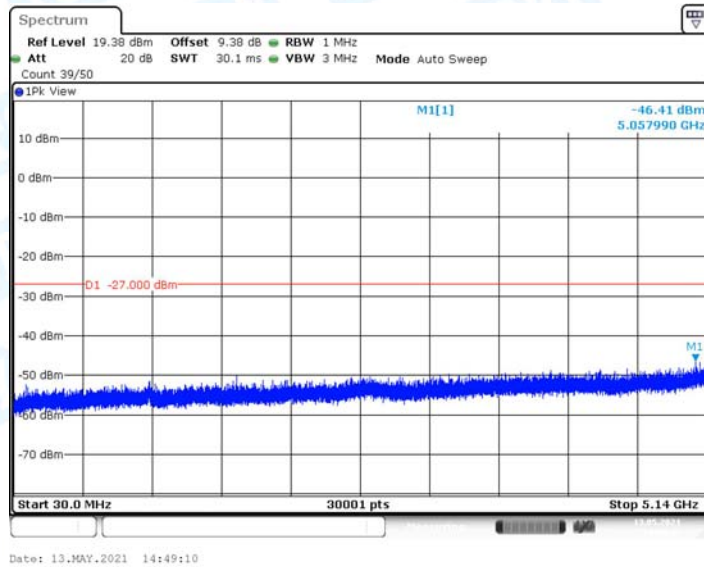
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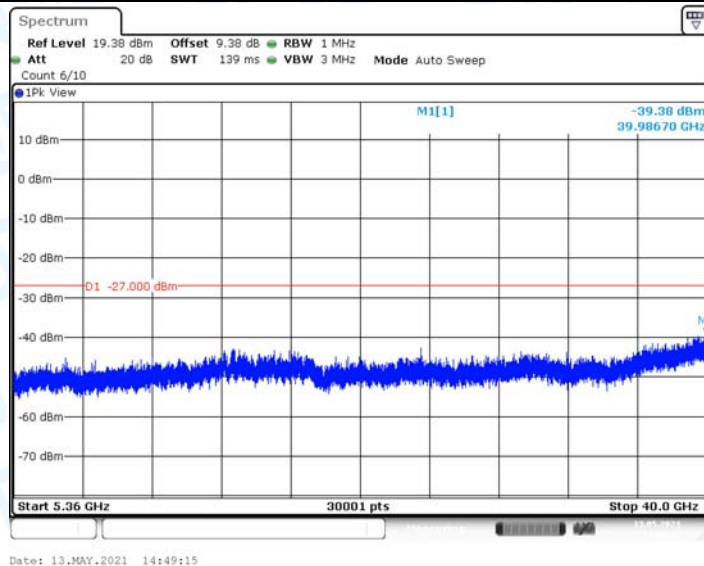
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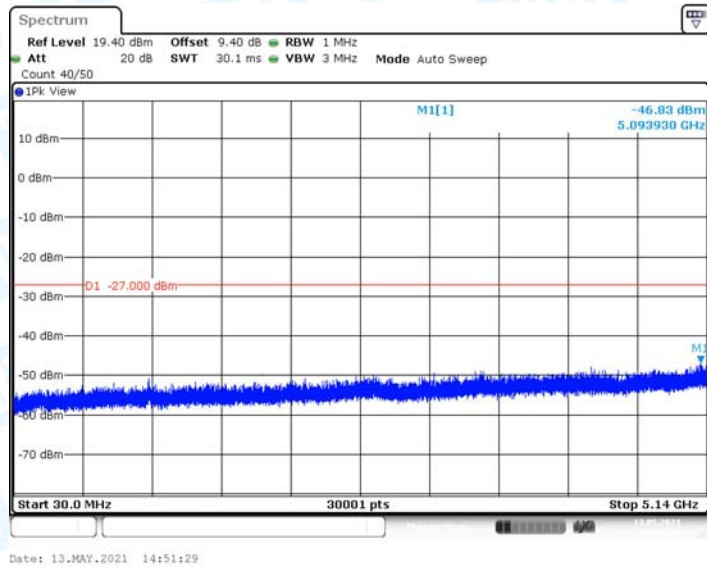
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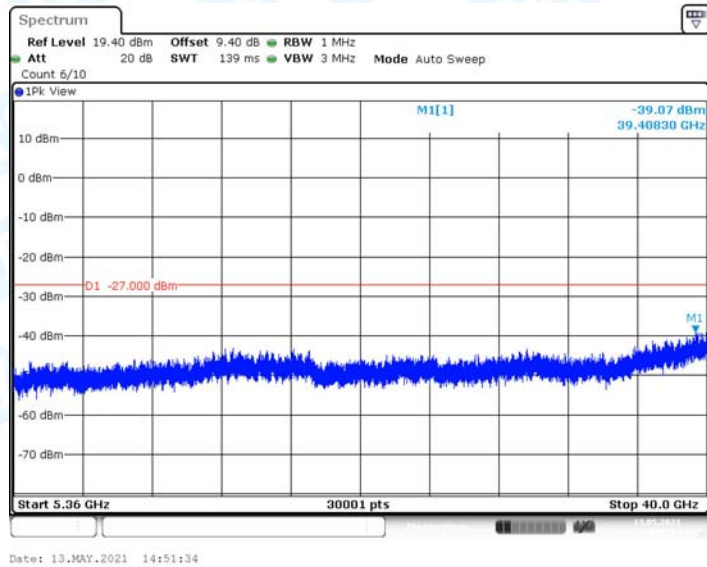
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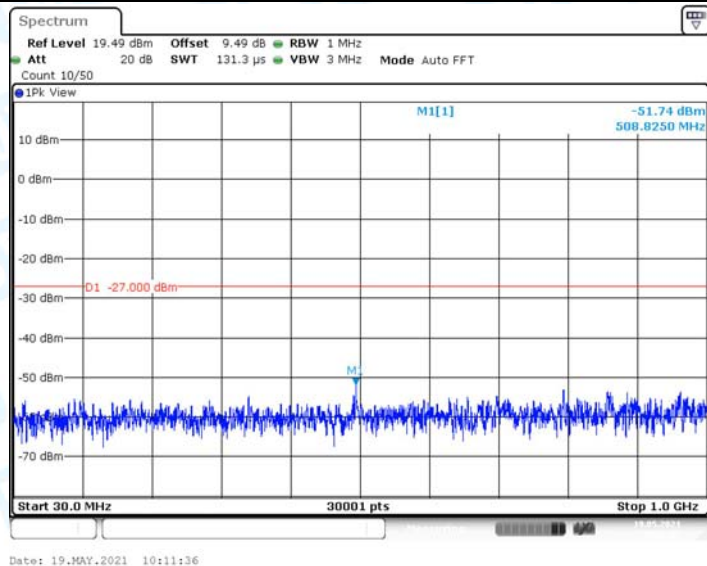
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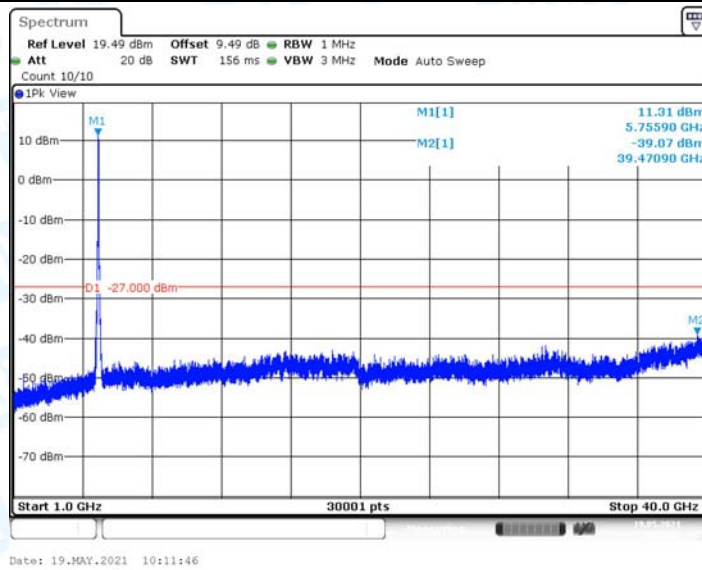
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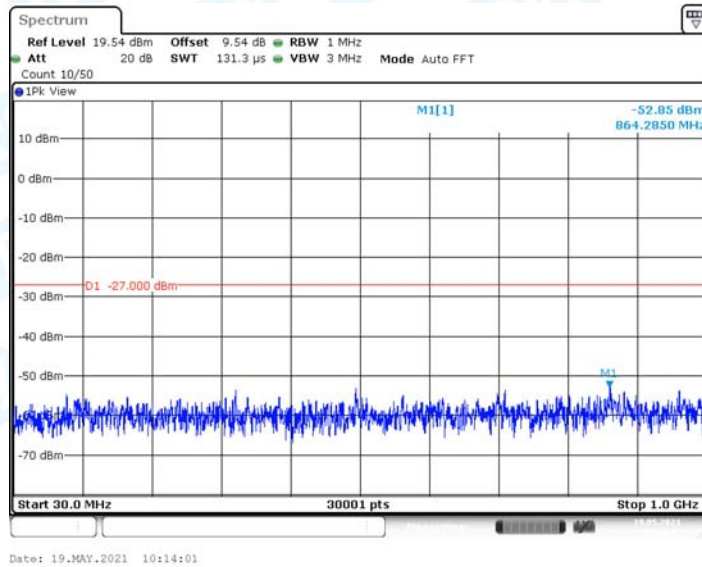
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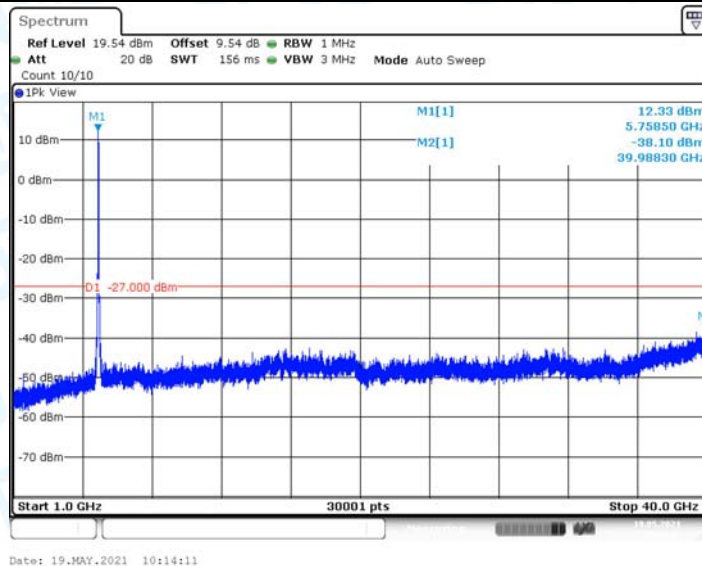
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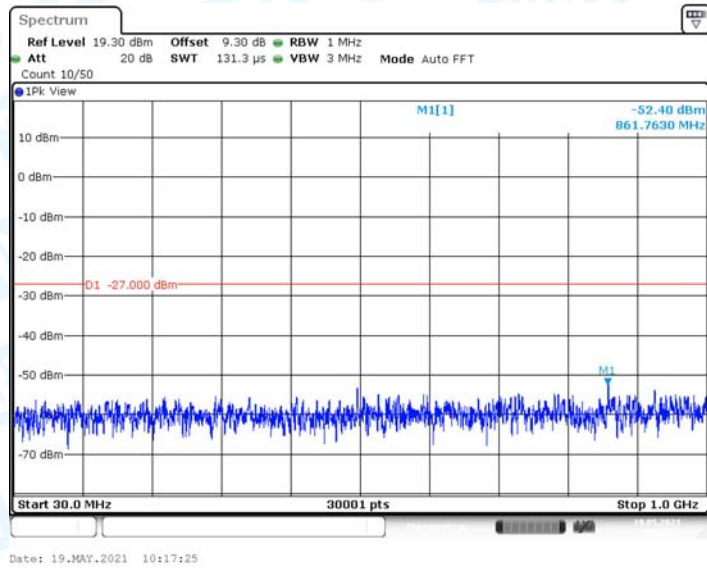
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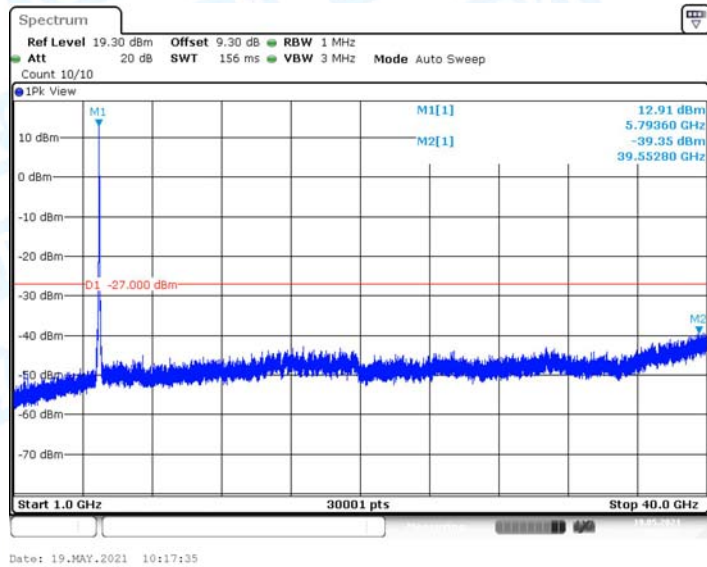
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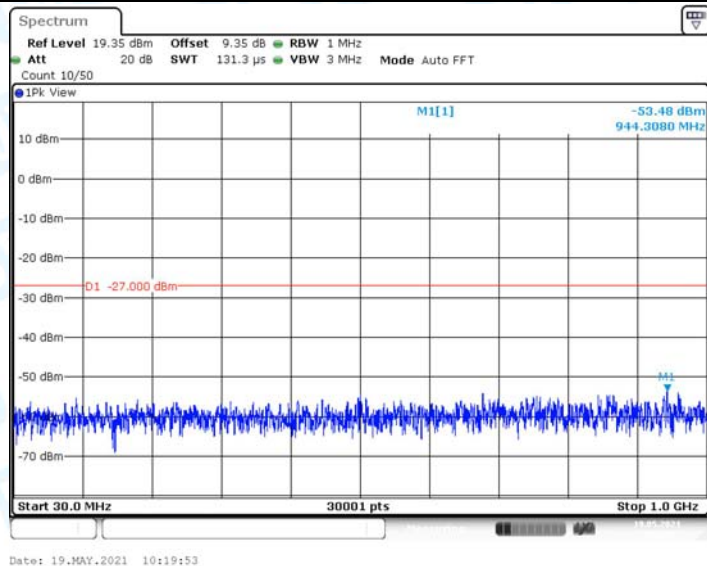
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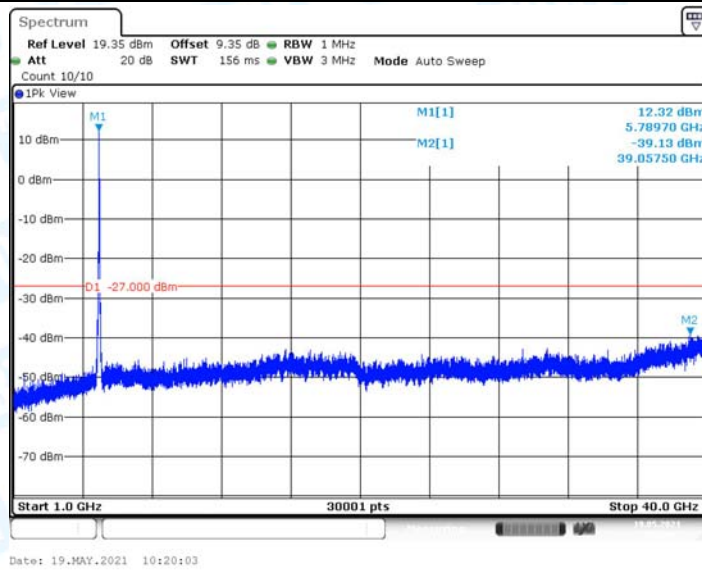
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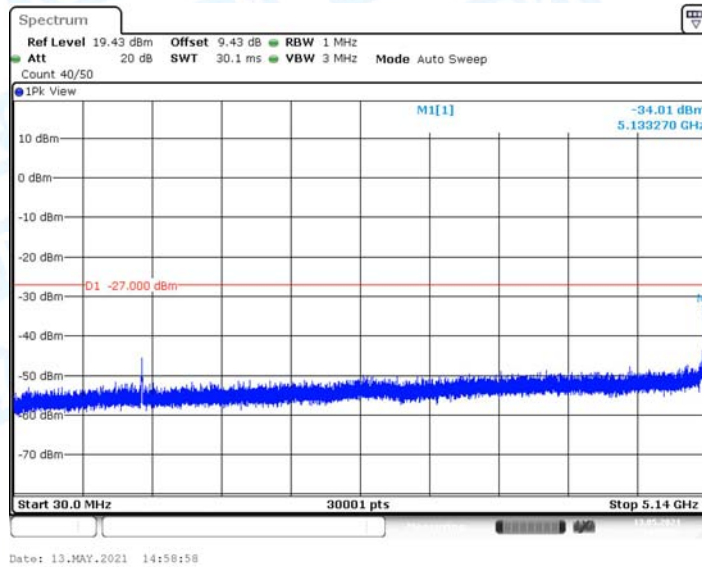
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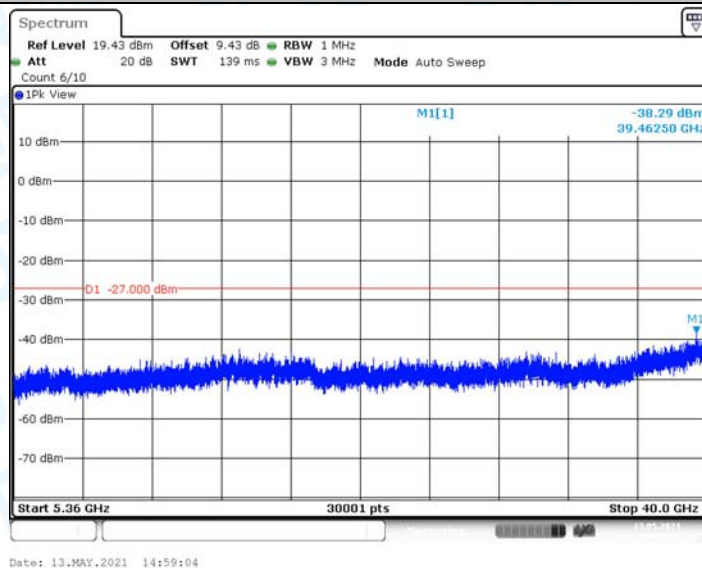
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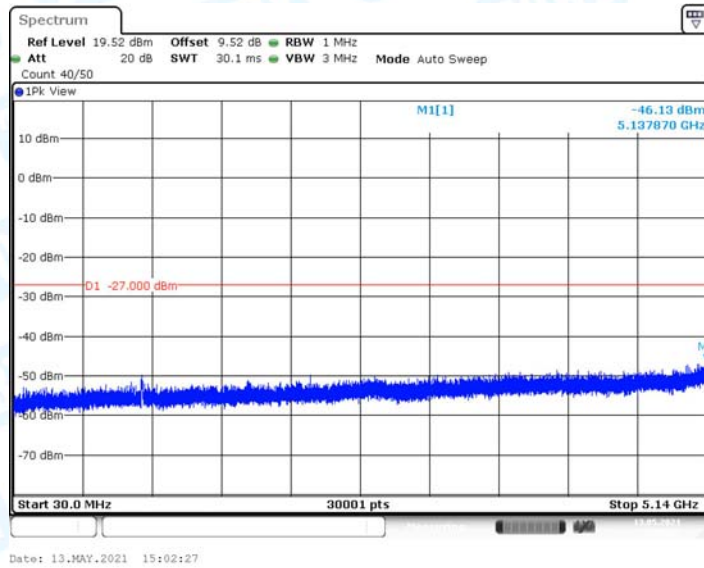
11AC20MIMO_Ant3_5180_30~5140



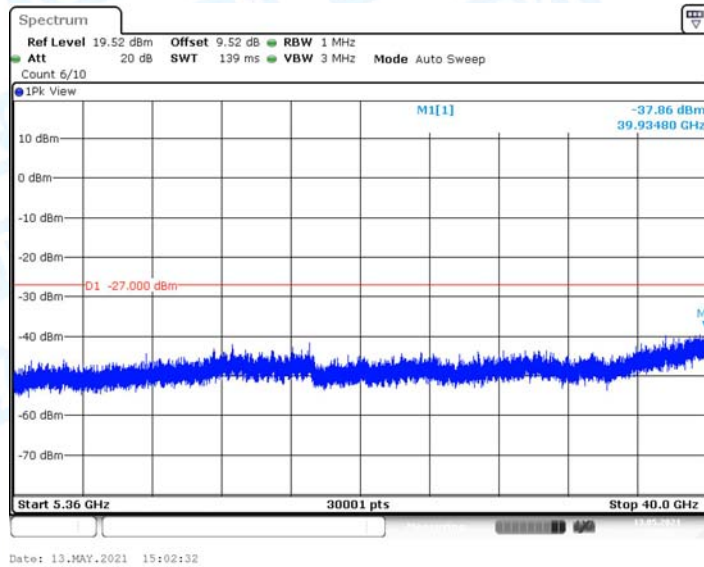
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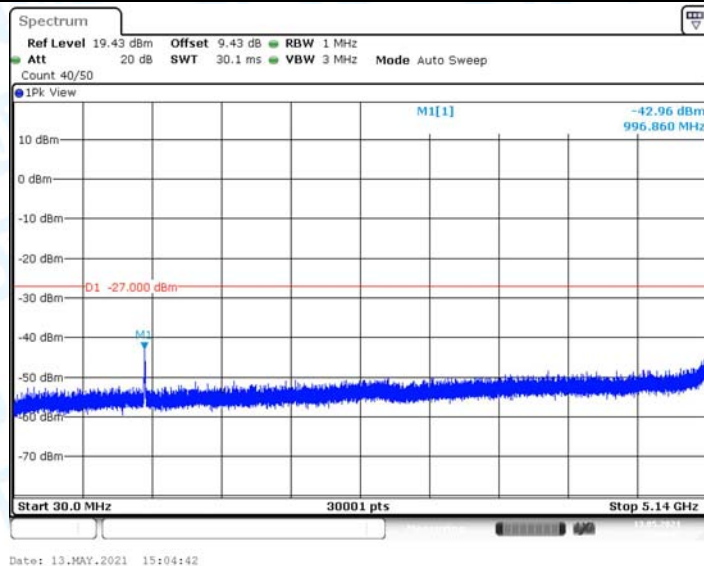
11AC20MIMO_Ant4_5180_30~5140



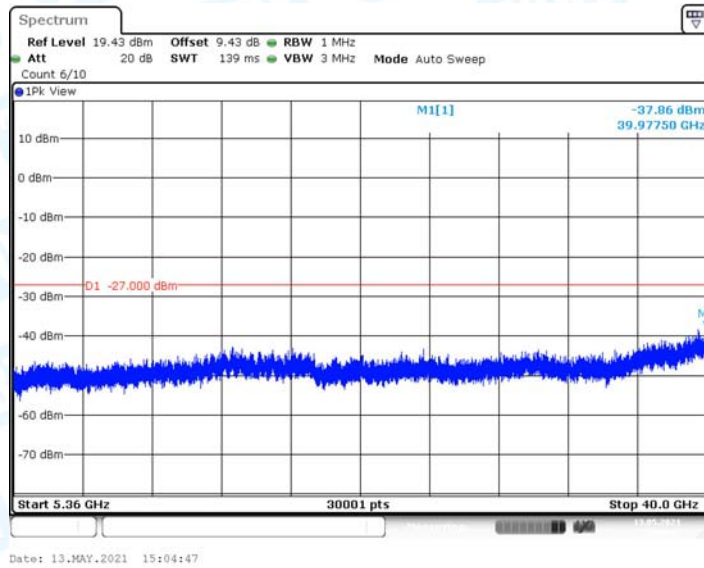
11AC20MIMO_Ant4_5180_5360~40000



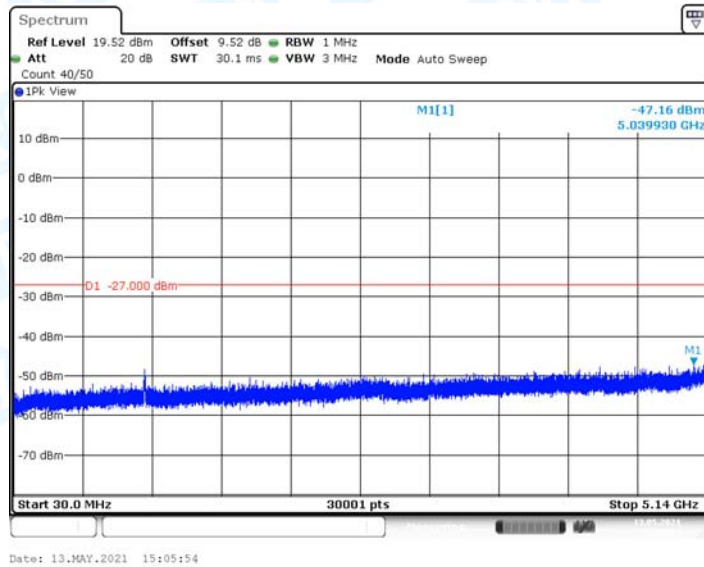
11AC20MIMO_Ant3_5200_30~5140



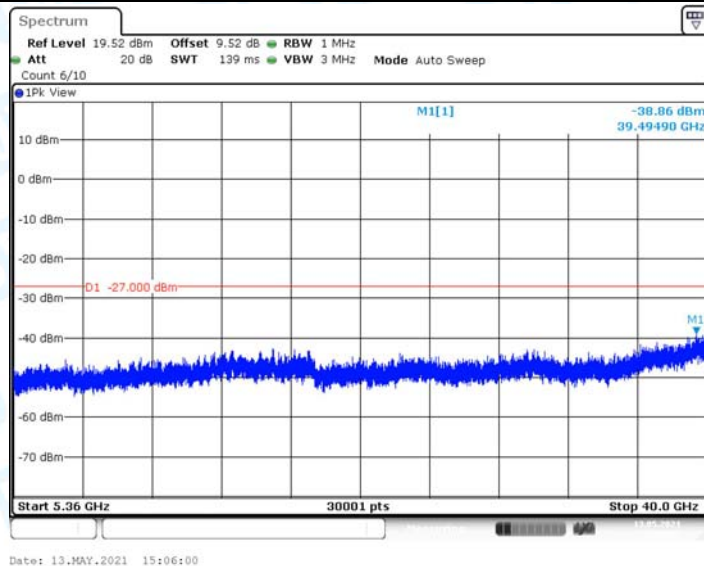
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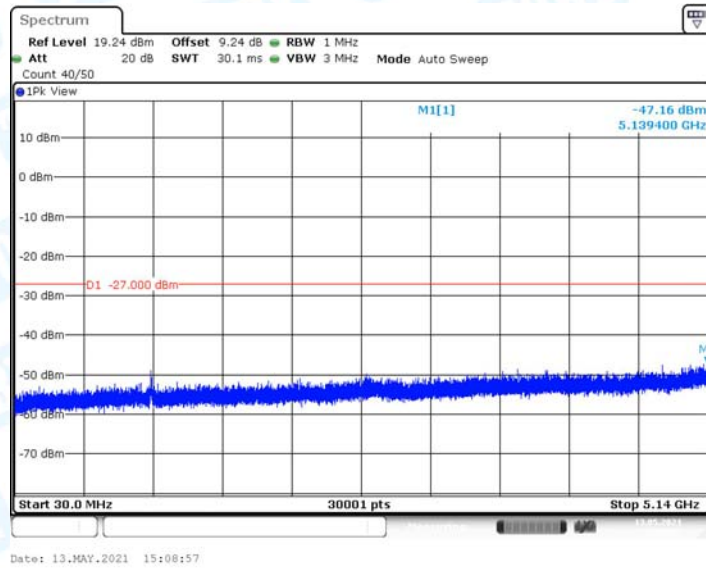
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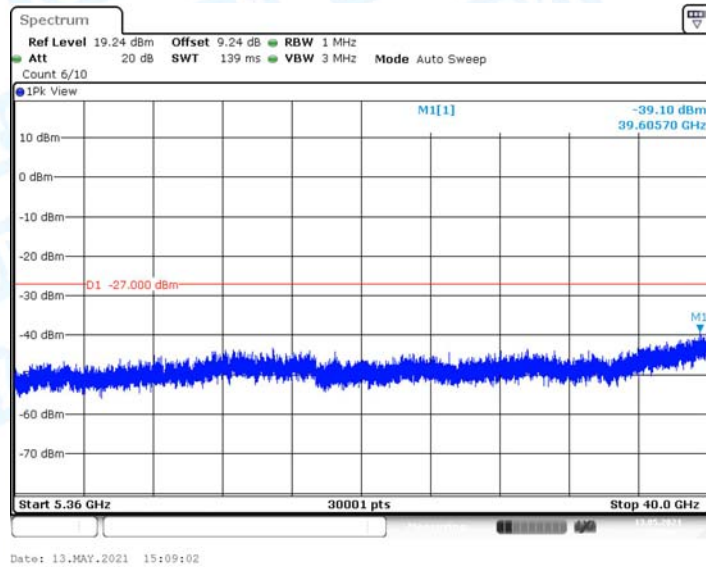
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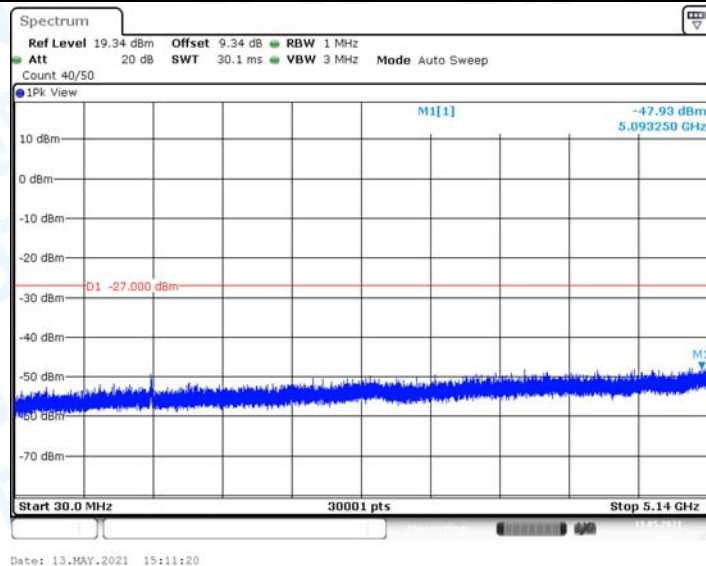
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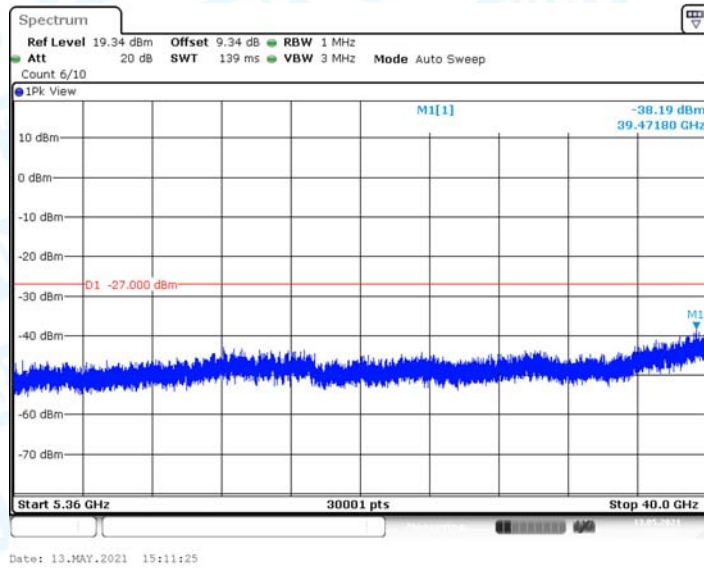
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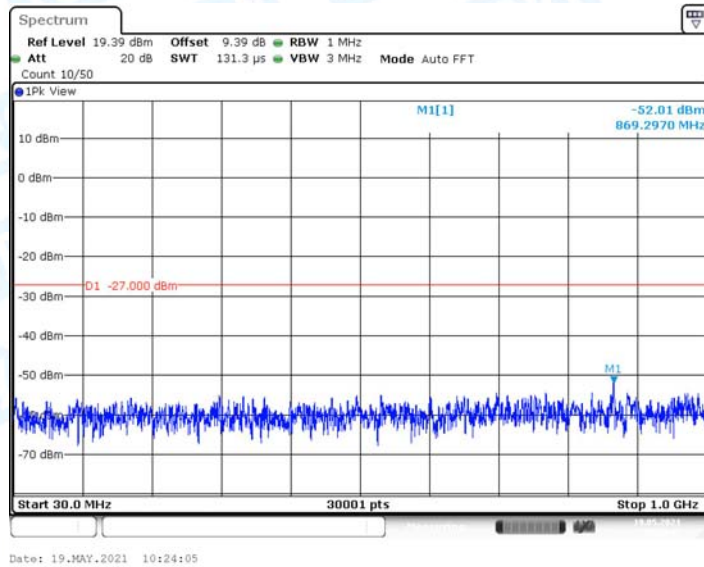
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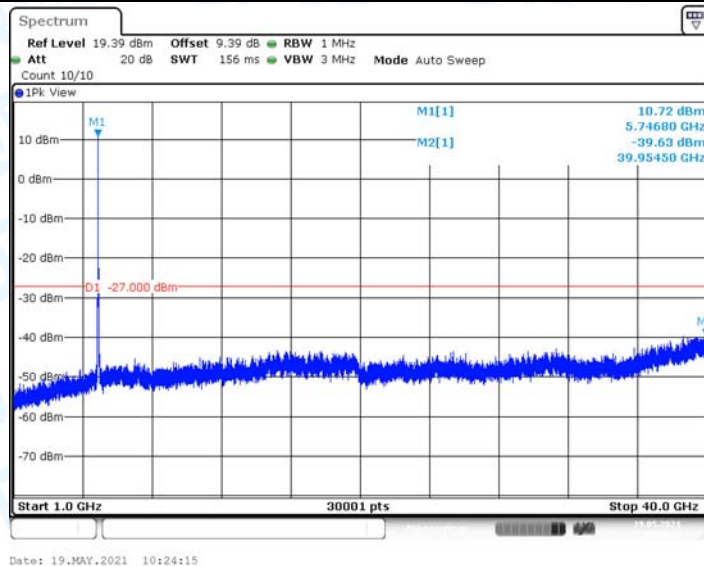
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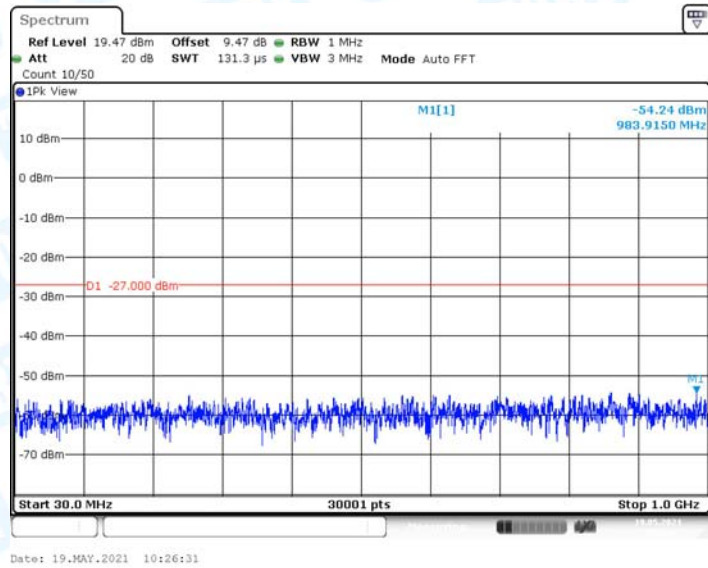
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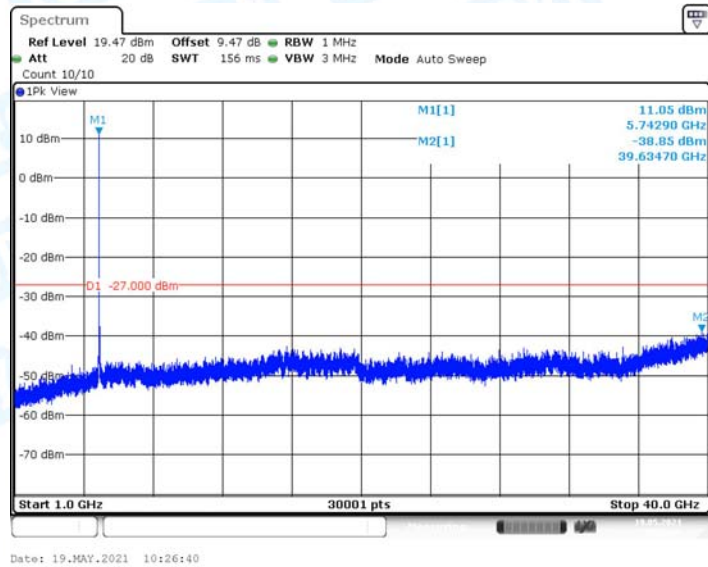
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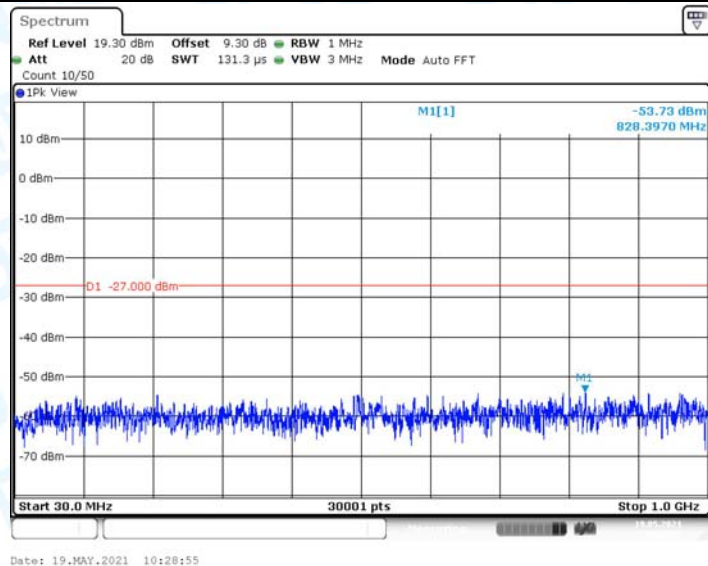
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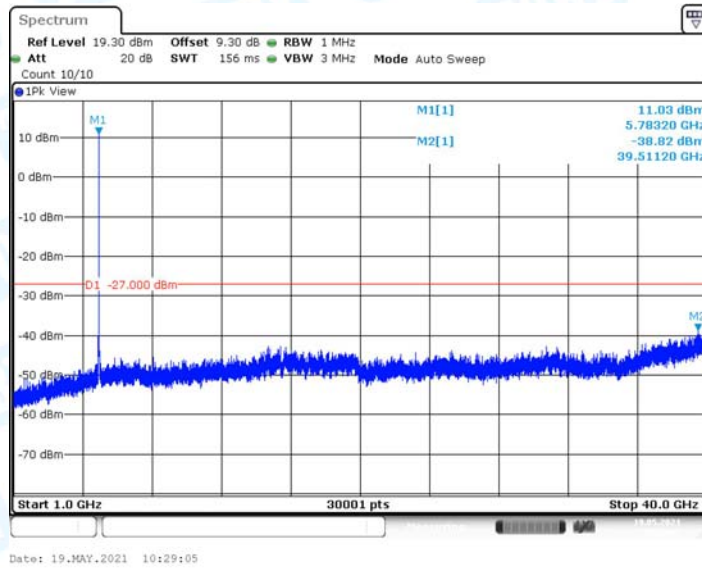
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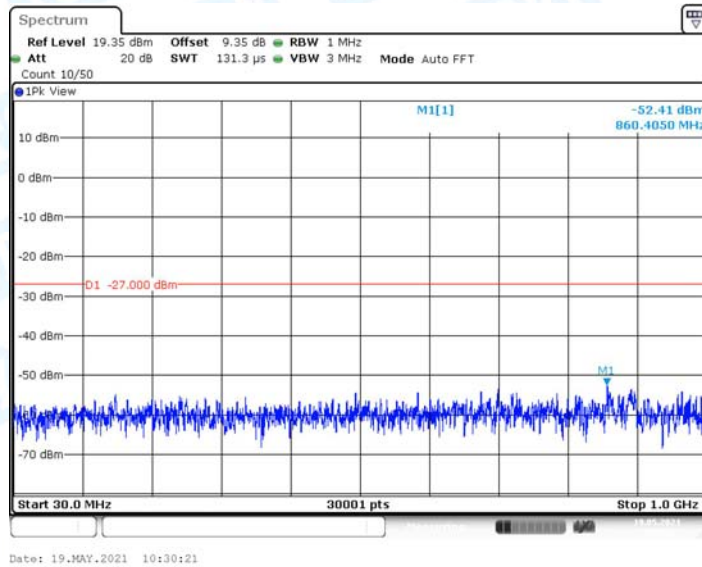
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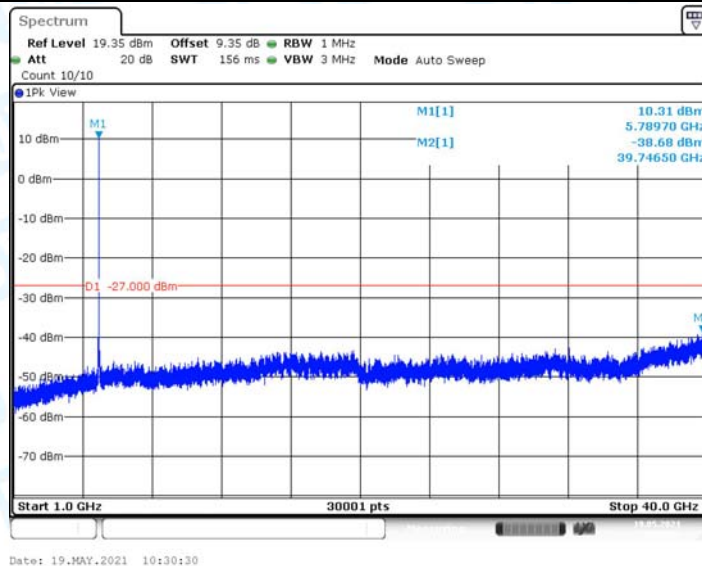
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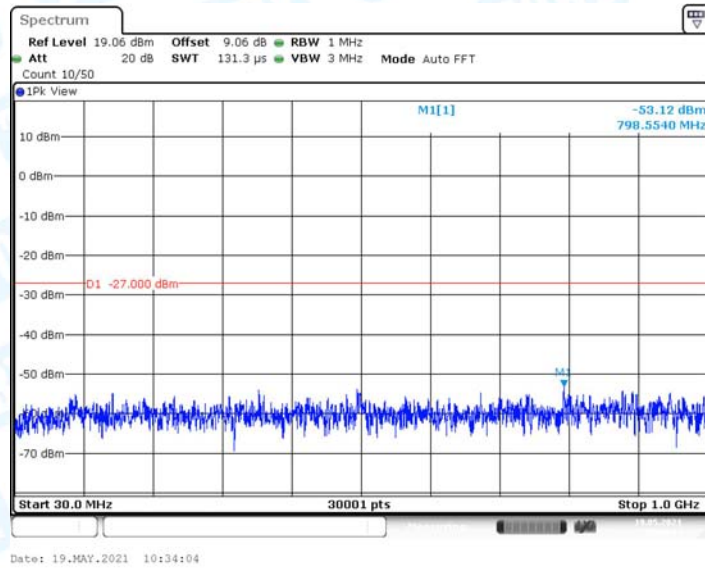
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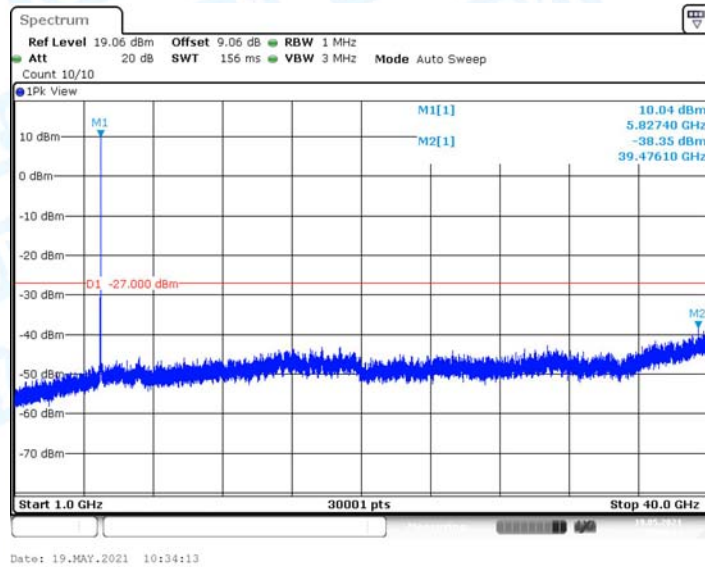
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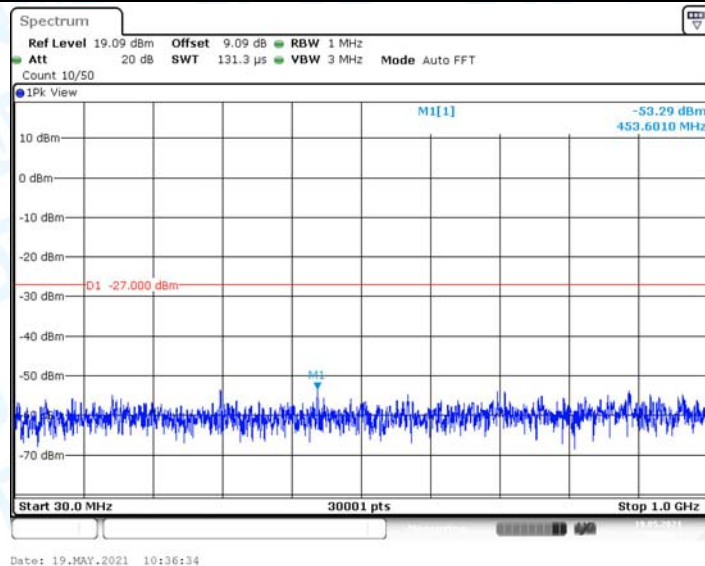
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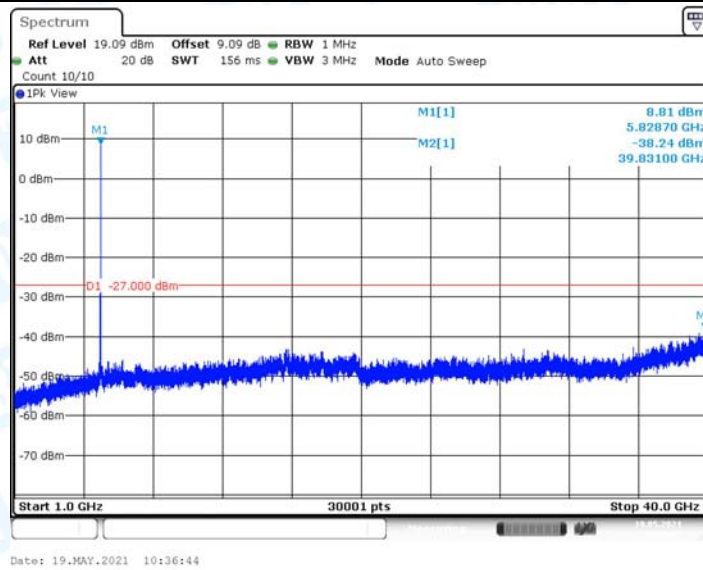
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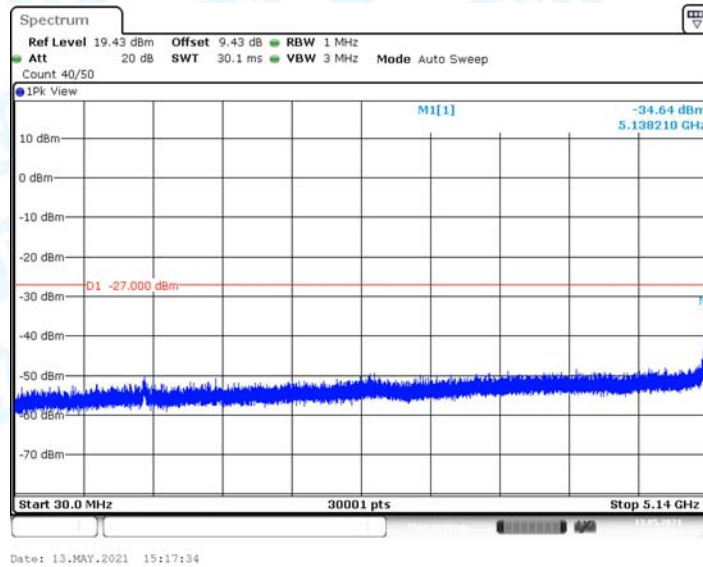
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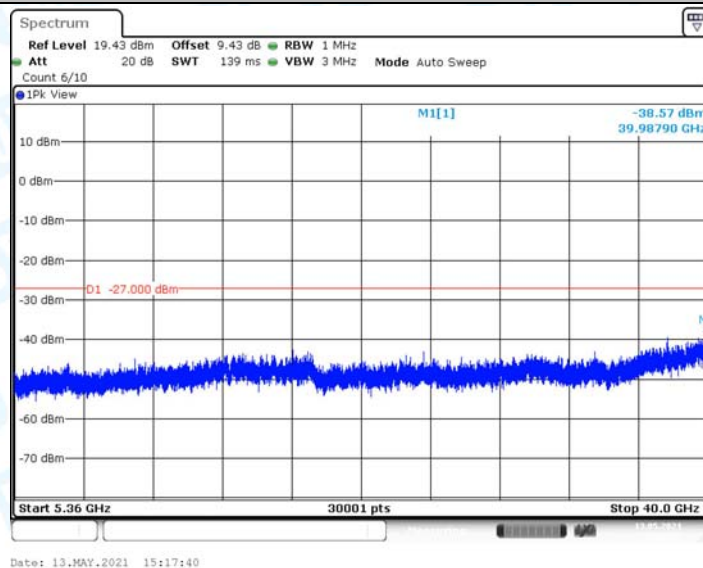
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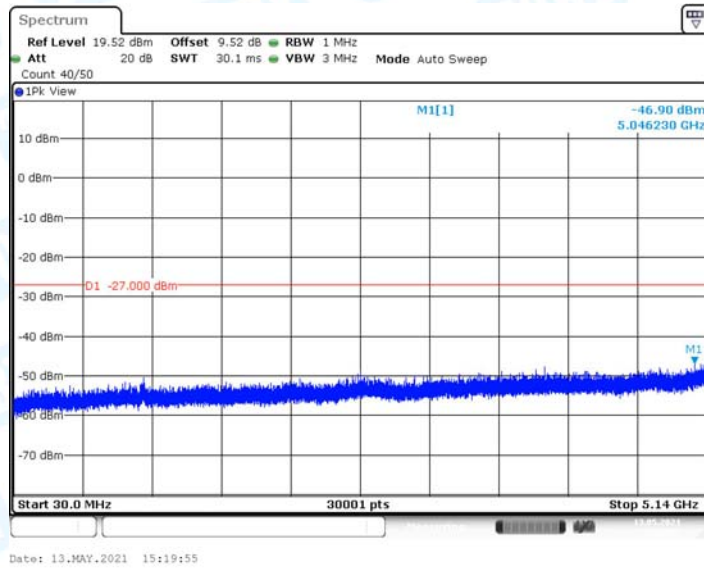
11AC40MIMO_Ant3_5190_30~5140



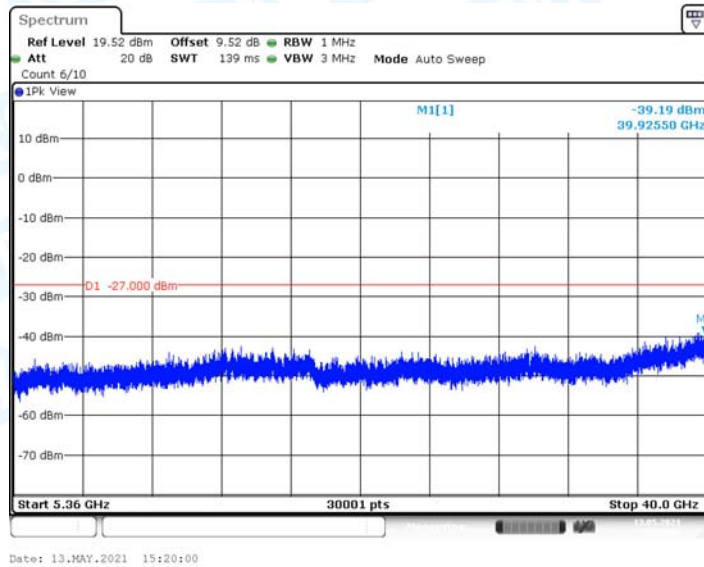
11AC40MIMO_Ant3_5190_5360~40000



11AC40MIMO_Ant4_5190_30~5140



11AC40MIMO_Ant4_5190_5360~40000



11AC40MIMO_Ant3_5230_30~5140

