



FCC RF Test Report

APPLICANT : Honeywell International Inc
EQUIPMENT : mobile computer
BRAND NAME : Honeywell
MODEL NAME : CT37X1N
FCC ID : HD5-CT37X1N
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Sep. 27, 2024 ~ Oct. 20, 2024

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR461912E	Rev. 01	Initial issue of report	Nov. 05, 2024



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 24 dBm	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 11 dBm/MHz	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 3.03 dB at 5350.000 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	15.207(a)	Pass	Under limit 20.02 dB at 0.479 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Conformity Assessment Condition:

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

Disclaimer:

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



1 General Description

1.1 Applicant

Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707

1.2 Manufacturer

Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	mobile computer
Brand Name	Honeywell
Model Name	CT37X1N
FCC ID	HD5-CT37X1N
IMEI Code	Conducted: 99002148003927 Conduction: 990021480035045/990021480035052 Radiation: 990021480031093
HW Version	V1.0
SW Version	OS.31.001-HON.31.001
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5250 MHz 5250 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Maximum Output Power to Antenna	MIMO <Ant. 6 + 7> <5180 MHz ~ 5250 MHz> 802.11a : 20.26 dBm / 0.1062 W 802.11n HT20 : 20.57 dBm / 0.1140 W 802.11n HT40 : 21.83 dBm / 0.1524 W 802.11ac VHT20: 20.63 dBm / 0.1156 W 802.11ac VHT40: 22.56 dBm / 0.1803 W 802.11ac VHT80: 20.46 dBm / 0.1112 W 802.11ac VHT160: 17.78 dBm / 0.0600 W 802.11ax HE20: 20.76 dBm / 0.1191 W 802.11ax HE40: 23.10 dBm / 0.2042 W 802.11ax HE80: 20.51 dBm / 0.1125 W 802.11ax HE160: 17.82 dBm / 0.0605 W



	<5250 MHz ~ 5320 MHz> 802.11a : 19.89 dBm / 0.0975 W 802.11n HT20 : 20.55 dBm / 0.1135 W 802.11n HT40 : 21.84 dBm / 0.1528 W 802.11ac VHT20: 20.60 dBm / 0.1148 W 802.11ac VHT40: 22.62 dBm / 0.1828 W 802.11ac VHT80: 19.44 dBm / 0.0879 W 802.11ac VHT160: 17.78 dBm / 0.0600 W 802.11ax HE20: 20.67 dBm / 0.1167 W 802.11ax HE40: 23.15 dBm / 0.2065 W 802.11ax HE80: 19.48 dBm / 0.0887 W 802.11ax HE160: 17.82 dBm / 0.0605 W <5500 MHz ~ 5720 MHz > 802.11a : 20.07 dBm / 0.1016 W 802.11n HT20 : 20.05 dBm / 0.1012 W 802.11n HT40 : 21.73 dBm / 0.1489 W 802.11ac VHT20: 20.13 dBm / 0.1030 W 802.11ac VHT40: 22.47 dBm / 0.1766 W 802.11ac VHT80: 21.84 dBm / 0.1528 W 802.11ac VHT160: 17.12 dBm / 0.0515 W 802.11ax HE20: 20.68 dBm / 0.1169 W 802.11ax HE40: 22.99 dBm / 0.1991 W 802.11ax HE80: 21.89 dBm / 0.1545 W 802.11ax HE160: 17.15 dBm / 0.0519 W <5745 MHz ~ 5825 MHz> 802.11a : 23.54 dBm / 0.2259 W 802.11n HT20 : 20.66 dBm / 0.1164 W 802.11n HT40 : 21.52 dBm / 0.1419 W 802.11ac VHT20: 21.97 dBm / 0.1574 W 802.11ac VHT40: 22.72 dBm / 0.1871 W 802.11ac VHT80: 21.43 dBm / 0.1390 W 802.11ax HE20: 22.01 dBm / 0.1390 W 802.11ax HE40: 22.75 dBm / 0.1390 W 802.11ax HE80: 21.47 dBm / 0.1403 W
99% Occupied Bandwidth	<5180 MHz ~ 5250 MHz> 802.11a : 16.543 MHz 802.11ac VHT20: 17.662 MHz 802.11ac VHT40: 36.044 MHz 802.11ac VHT80: 75.285 MHz 802.11ac VHT160: 154.725 MHz 802.11ax HE20: 18.901 MHz 802.11ax HE40: 38.042 MHz 802.11ax HE80: 77.203 MHz 802.11ax HE160: 156.324 MHz <5250 MHz ~ 5320 MHz> 802.11a : 16.503 MHz 802.11ac VHT20: 17.662 MHz 802.11ac VHT40: 36.124 MHz 802.11ac VHT80: 75.125 MHz 802.11ac VHT160: 154.725 MHz 802.11ax HE20: 18.981 MHz 802.11ax HE40: 38.042 MHz 802.11ax HE80: 77.203 MHz 802.11ax HE160: 156.324 MHz <5500 MHz ~ 5720 MHz> 802.11a : 16.503 MHz 802.11ac VHT20: 17.702 MHz

	802.11ac VHT40: 36.044 MHz 802.11ac VHT80: 75.285 MHz 802.11ac VHT160: 155.365 MHz 802.11ax HE20: 18.941 MHz 802.11ax HE40: 38.122 MHz 802.11ax HE80: 77.043 MHz 802.11ax HE160: 156.324 MHz <5745 MHz ~ 5825 MHz> 802.11a : 16.663 MHz 802.11ac VHT20: 17.622 MHz 802.11ac VHT40: 36.044 MHz 802.11ac VHT80: 75.125 MHz 802.11ax HE20: 19.061 MHz 802.11ax HE40: 38.042 MHz 802.11ax HE80: 76.883 MHz
Antenna Type / Gain	<5180 MHz ~ 5250 MHz> <Ant. 6> : IFA Antenna with gain 1.0 dBi <Ant. 7> : IFA Antenna with gain -0.5 dBi <5260 MHz ~ 5320 MHz> <Ant. 6> : IFA Antenna with gain 0.6 dBi <Ant. 7> : IFA Antenna with gain 0.3 dBi <5500 MHz ~ 5720 MHz> <Ant. 6> : IFA Antenna with gain 0.7 dBi <Ant. 7> : IFA Antenna with gain 0.6 dBi <5745 MHz ~ 5825 MHz> <Ant. 6> : IFA Antenna with gain 1.4 dBi <Ant. 7> : IFA Antenna with gain 1.3 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Note:

1. WLAN MIMO support CDD mode.
2. For WLAN SISO & MIMO mode, the whole testing has assessed only MIMO mode by referring to the higher normal output power.
3. The device supports Tx Beamforming mode, and the Tx Beamforming power/EIRP is not greater than CDD mode, so we only evaluate CDD mode by referring to their maximum conducted power.
4. For 802.11n & 11ac & 11ax mode, the whole testing have assessed only 11ax mode by referring to the higher output power.
5. 802.11ax support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power > partial RU, therefore the full RU perform full, and partial RU verify Power Density, band edge/spurious.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH05-KS	AUDIX	E3	210616
3.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8 Applicable Standards

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

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane-Adapter mode) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	50 ^{##}	5250
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640
	-	-	114 ^{##}	5570

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "[#]" are 80MHz bandwidth.
3. The above Frequency and Channel in "^{##}" are 160MHz bandwidth.



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20(Cover 11n/ac 20)	MCS0
802.11ax HE40(Cover 11n/ac 40)	MCS0
802.11ax HE80(Cover 11ac 80)	MCS0
802.11ax HE160(Cover 11ac 160)	MCS0

AC Conducted Emission	Mode 1 : BT Link+ WLAN Link(5G)+ USB Cable(Charging From Adapter)
Remark: 1. For Radiated Test Cases, The tests were performance with Adapter and USB Cable. 2. Co-location test modes of RSE refer to Appendix C.	

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

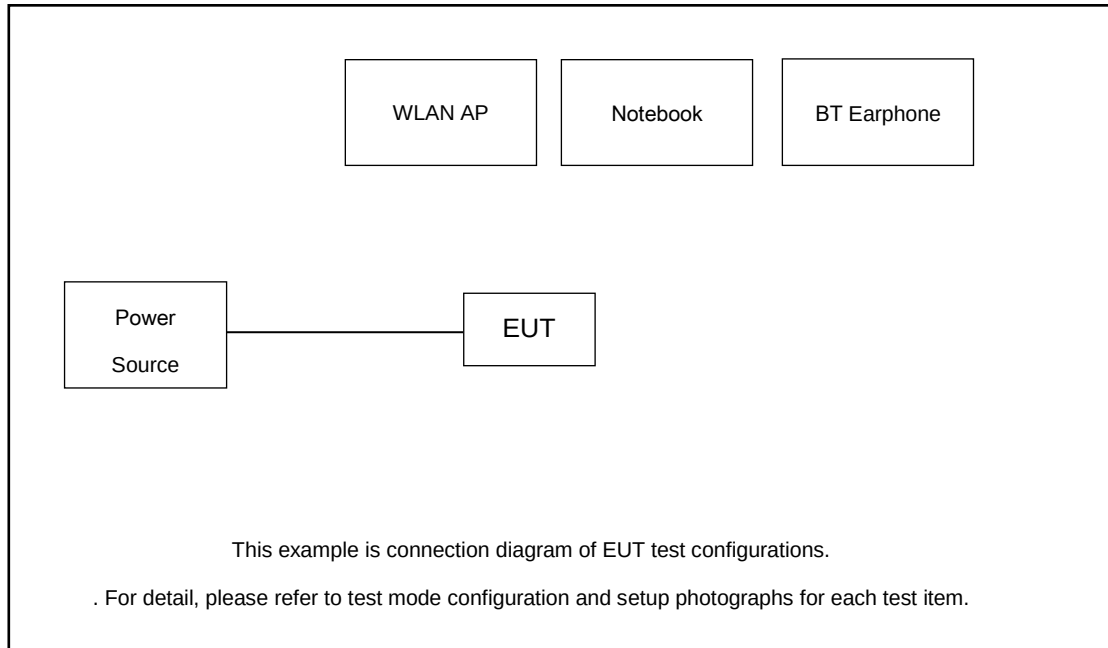
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		40M BW	40M BW	40M BW	40M BW
L	Low	38	54	102	151
M	Middle	-	-	110	-
H	High	46	62	134	159
Straddle		-	-	142	-

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		80M BW	80M BW	80M BW	80M BW
L	Low	-	-	106	-
M	Middle	42	58	-	155
H	High	-	-	-	-
Straddle		-	-	138	-

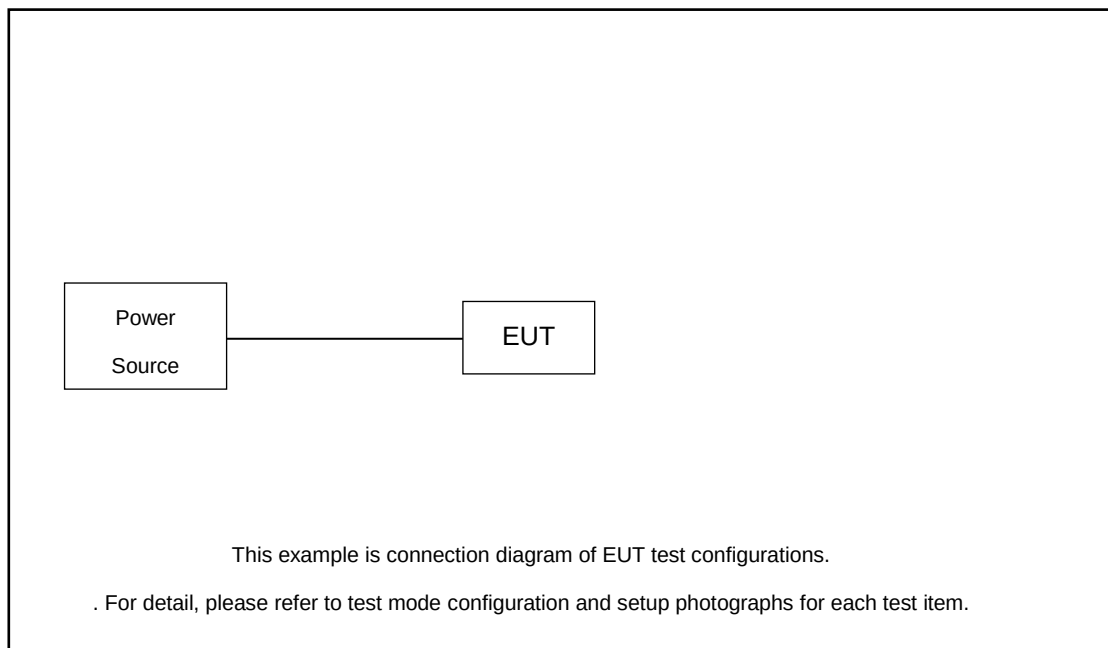
Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		160M BW		160M BW	160M BW
M	Middle	50		114	-

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	Shielded cable DC O/P 1.8m, Unshielded AC I/P cable 1.8m
2.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
3.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
4.	SD Card	Kingston	8GB	N/A	N/A	N/A
5.	Adapter	N/A	N/A	N/A	N/A	N/A
6.	USB Cable	N/A	N/A	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 6.35 dB and 20dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 6.35 + 20 = 26.35 \text{ (dB)}\end{aligned}$$



3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

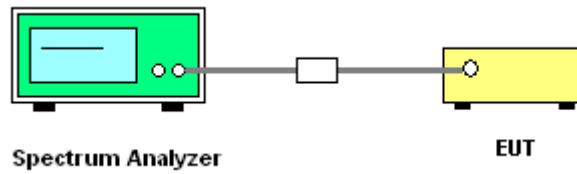
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	1. Set RBW = approximately 1% of the emission bandwidth. 2. Set the VBW > RBW. 3. Detector = Peak. 4. Trace mode = max hold 5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. 6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$. 7. Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	1. Set RBW = 100kHz. 2. Set the VBW $\geq 3 * RBW$. 3. Detector = Peak. 4. Trace mode = max hold 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission. 6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.



3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW.

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm +10 log₁₀ B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

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3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

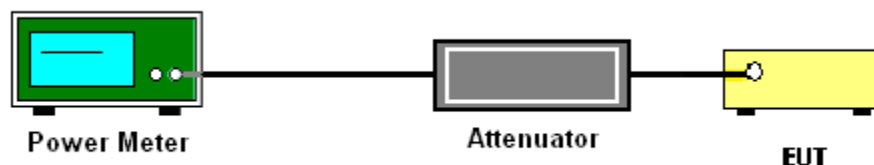
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.

Section F) Maximum power spectral density.

For devices operating in the bands UNII-1/2A/2C

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW $\geq$ 3 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

For devices operating in the band UNII-3

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

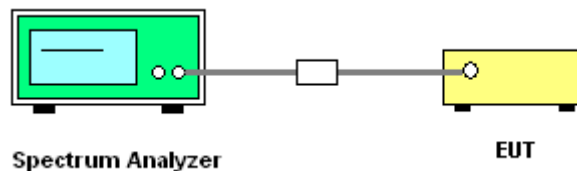
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
- Set VBW $\geq$ 1 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can't set RBW=500KHz, then add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz .

- (2) For transmitters operating in the 5.725-5.85 GHz band:
- 15.407(b)(4)(i) 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.

(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

(4) EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

(4) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

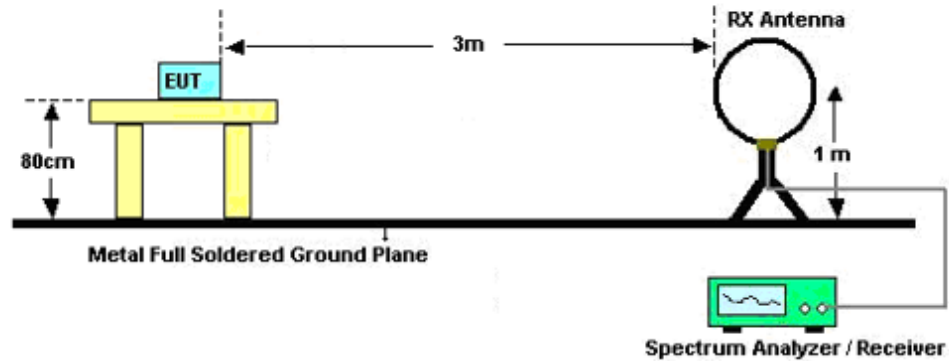
The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

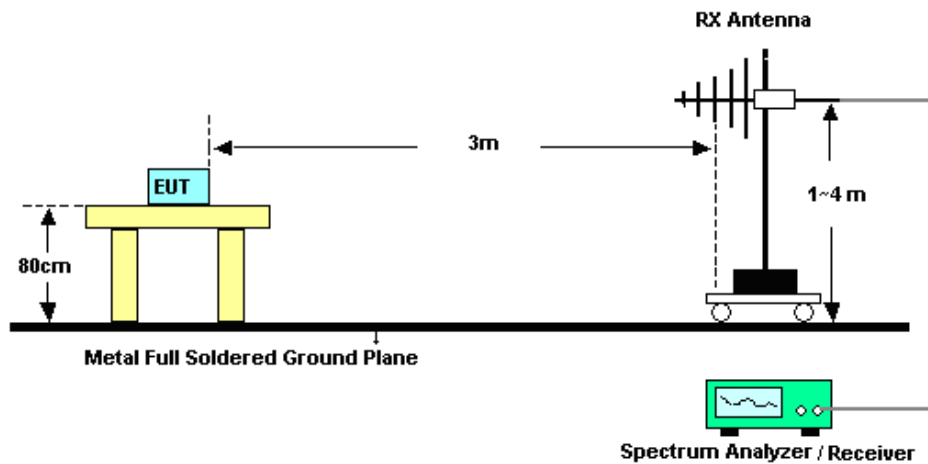
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r04.
Section G) Unwanted emissions measurement.
(1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq$ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

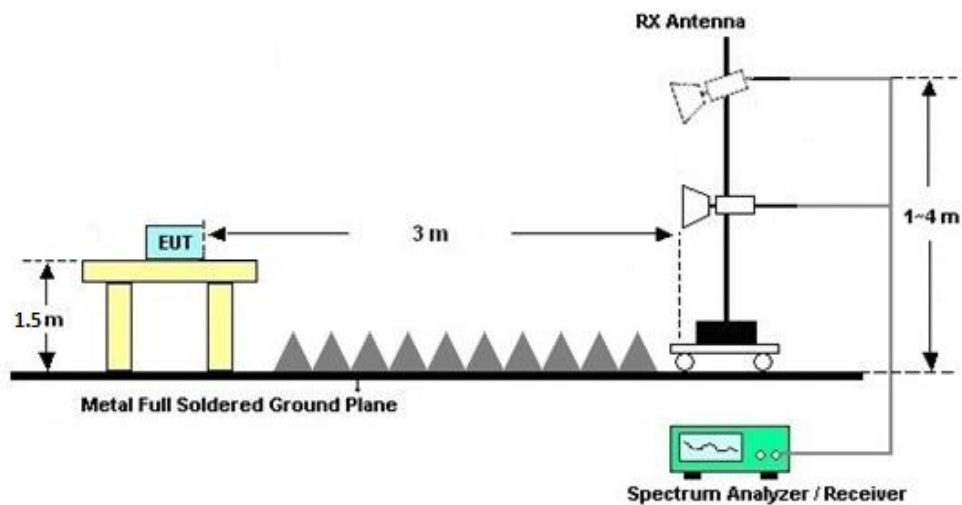
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

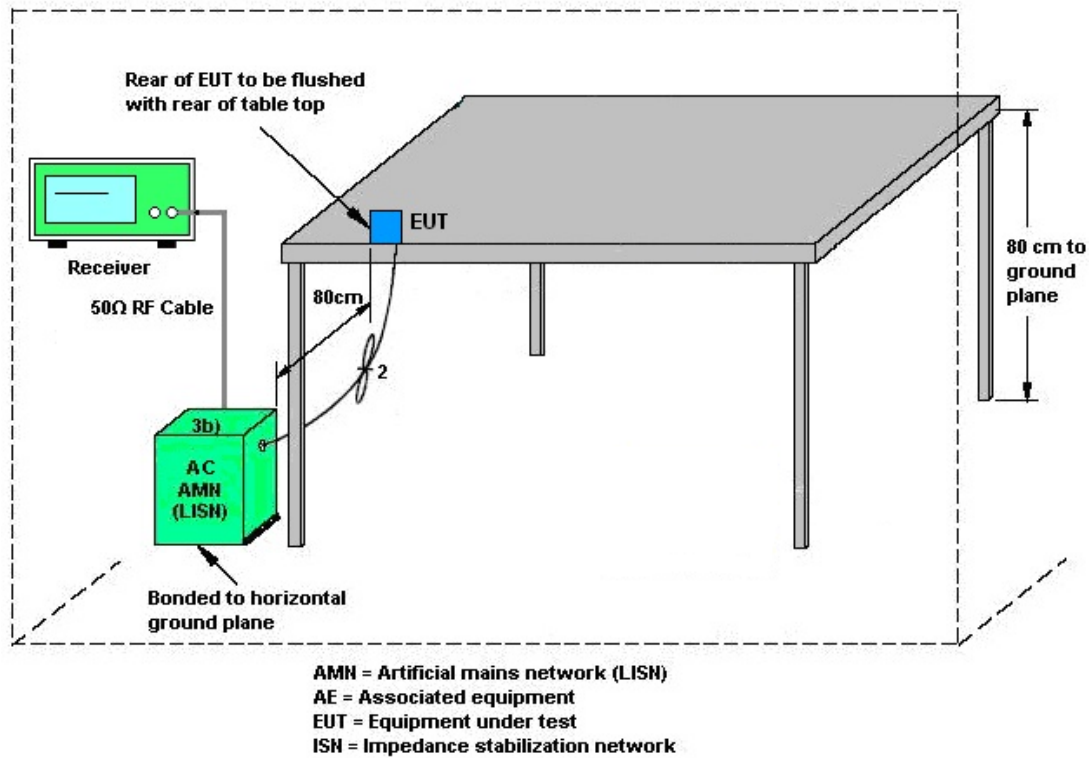
3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.6 Antenna Requirements

3.6.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(\text{NANT}/\text{NSS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $\text{NANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 6	Ant. 7	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
UNII-1	1.00	-0.50	1.00	3.29	0.00	0.00
UNII-2A	0.60	0.30	0.60	3.46	0.00	0.00
UNII-2C	0.70	0.60	0.70	3.66	0.00	0.00
UNII-3	1.40	1.30	1.40	4.36	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain “DG” is calculated as following table.

			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 6 (dBi)	Ant. 7 (dBi)				
UNII-1	1.00	-0.50	3.29	3.29	0.00	0.00
UNII-2A	0.60	0.30	3.46	3.46	0.00	0.00
UNII-2C	0.70	0.60	3.66	3.66	0.00	0.00
UNII-3	1.40	1.30	4.36	4.36	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 11, 2023	Sep. 27, 2024~ Oct. 08, 2024	Oct. 10, 2024	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2024	Sep. 27, 2024~ Oct. 08, 2024	Jan. 01, 2025	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2024	Sep. 27, 2024~ Oct. 08, 2024	Jan. 01, 2025	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Max x 30dBm	Oct. 10, 2024	Oct. 20, 2024	Oct. 09, 2025	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz~44G,MAX 30dB	Apr. 18, 2024	Oct. 20, 2024	Apr. 17, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Oct. 20, 2024	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz~1GHz	Apr. 18, 2024	Oct. 20, 2024	Apr. 17, 2025	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Oct. 20, 2024	Oct. 22, 2024	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101093	18GHz~40GHz	Jan. 06, 2024	Oct. 20, 2024	Jan. 05, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	381512	9KHz~1GHz	Jan. 02, 2024	Oct. 20, 2024	Jan. 01, 2025	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 02, 2024	Oct. 20, 2024	Jan. 01, 2025	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060890	1Ghz~18Ghz	Oct. 10, 2024	Oct. 20, 2024	Oct. 09, 2025	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz~18Ghz	Jan. 03, 2024	Oct. 20, 2024	Jan. 02, 2025	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Oct. 20, 2024	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 20, 2024	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 20, 2024	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Oct. 15, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 10, 2024	Oct. 15, 2024	Oct. 09, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Oct. 15, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 10, 2024	Oct. 15, 2024	Oct. 09, 2025	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Conducted Spurious Emission & Bandedge	±2.22 dB
Occupied Channel Bandwidth	±0.1%
Conducted Power	±0.50 dB
Conducted Power Spectral Density	±0.90 dB
Frequency	±0.04 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.84dB
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Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.30dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.02dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.22dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.34dB
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----- THE END -----



Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jiang Jun	Temperature:	21~25	°C
Test Date:	2024.09.27~2024.10.08	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	36	5180	0.03	0.03	16.95	16.94	19.95	24.00		1.00		Pass
11a	6Mbps	2	44	5220	0.03	0.03	17.21	17.28	20.26	24.00		1.00		Pass
11a	6Mbps	2	48	5240	0.03	0.03	17.09	16.75	19.93	24.00		1.00		Pass
HT20	MCS0	2	36	5180	0.00	0.00	16.97	17.33	20.16	24.00		1.00		Pass
HT20	MCS0	2	44	5220	0.00	0.00	17.55	17.56	20.57	24.00		1.00		Pass
HT20	MCS0	2	48	5240	0.00	0.00	16.98	17.06	20.03	24.00		1.00		Pass
HT40	MCS0	2	38	5190	0.00	0.00	17.81	18.05	20.94	24.00		1.00		Pass
HT40	MCS0	2	46	5230	0.00	0.00	18.43	19.17	21.83	24.00		1.00		Pass
VHT20	MCS0	2	36	5180	0.00	0.00	17.05	17.36	20.22	24.00		1.00		Pass
VHT20	MCS0	2	44	5220	0.00	0.00	17.59	17.64	20.63	24.00		1.00		Pass
VHT20	MCS0	2	48	5240	0.00	0.00	17.06	17.10	20.09	24.00		1.00		Pass
VHT40	MCS0	2	38	5190	0.00	0.00	17.85	18.11	20.99	24.00		1.00		Pass
VHT40	MCS0	2	46	5230	0.00	0.00	19.14	19.93	22.56	24.00		1.00		Pass
VHT80	MCS0	2	42	5210	0.00	0.00	17.45	17.45	20.46	24.00		1.00		Pass
VHT160	MCS0	2	50	5250	0.00	0.00	14.75	14.79	17.78	24.00		1.00		Pass

Power Setting	
Ant 6	Ant 7
16	
16.5	
16	
16.5	
17	
16.5	
16.5	
18	
16.5	
17	
16.5	
16.5	
18.5	
16.5	
13	

TEST RESULTS DATA
Average Power Table

FCC U-NII-1 MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	36	5180	Full	0.00	0.00	17.59	17.91	20.76	24.00		1.00	Pass	17	
HE20	MCS0	2	36	5180	26/0	0.00	0.00	9.91	11.01	13.51	24.00		1.00	Pass	10.5	
HE20	MCS0	2	36	5180	52/37	0.00	0.00	12.62	13.36	16.02	24.00		1.00	Pass	11.5	
HE20	MCS0	2	36	5180	106/53	0.00	0.00	15.66	16.33	19.02	24.00		1.00	Pass	14.5	
HE20	MCS0	2	44	5220	Full	0.00	0.00	17.63	17.67	20.66	24.00		1.00	Pass	17	
HE20	MCS0	2	44	5220	26/0	0.00	0.00	9.91	9.71	12.82	24.00		1.00	Pass	9.5	
HE20	MCS0	2	44	5220	52/37	0.00	0.00	12.66	13.16	15.93	24.00		1.00	Pass	11.5	
HE20	MCS0	2	44	5220	106/53	0.00	0.00	15.02	15.61	18.34	24.00		1.00	Pass	14	
HE20	MCS0	2	48	5240	Full	0.00	0.00	17.13	17.14	20.15	24.00		1.00	Pass	16.5	
HE20	MCS0	2	48	5240	26/8	0.00	0.00	9.68	9.41	12.56	24.00		1.00	Pass	9.5	
HE20	MCS0	2	48	5240	52/40	0.00	0.00	12.19	12.29	15.25	24.00		1.00	Pass	11	
HE20	MCS0	2	48	5240	106/54	0.00	0.00	15.07	15.46	18.28	24.00		1.00	Pass	14	
HE40	MCS0	2	38	5190	Full	0.00	0.00	17.87	18.13	21.01	24.00		1.00	Pass	16.5	
HE40	MCS0	2	46	5230	Full	0.00	0.00	19.66	20.48	23.10	24.00		1.00	Pass	19	
HE80	MCS0	2	42	5210	Full	0.00	0.00	17.51	17.48	20.51	24.00		1.00	Pass	16.5	
HE160	MCS0	2	50	5250	Full	0.00	0.00	14.78	14.83	17.82	24.00		1.00	Pass	13	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	52	5260	0.03	0.03	17.31	16.40	19.89	23.70		0.60		30.00	Pass
11a	6Mbps	2	60	5300	0.03	0.03	17.36	15.89	19.70	23.67		0.60		30.00	Pass
11a	6Mbps	2	64	5320	0.03	0.03	17.47	15.96	19.79	23.76		0.60		30.00	Pass
HT20	MCS0	2	52	5260	0.00	0.00	17.85	17.20	20.55	23.94		0.60		30.00	Pass
HT20	MCS0	2	60	5300	0.00	0.00	17.40	16.46	19.97	23.97		0.60		30.00	Pass
HT20	MCS0	2	64	5320	0.00	0.00	17.97	17.02	20.53	23.92		0.60		30.00	Pass
HT40	MCS0	2	54	5270	0.00	0.00	18.96	18.70	21.84	23.98		0.60		30.00	Pass
HT40	MCS0	2	62	5310	0.00	0.00	18.12	16.57	20.42	23.98		0.60		30.00	Pass
VHT20	MCS0	2	52	5260	0.00	0.00	17.90	17.26	20.60	23.94		0.60		30.00	Pass
VHT20	MCS0	2	60	5300	0.00	0.00	17.44	16.52	20.01	23.97		0.60		30.00	Pass
VHT20	MCS0	2	64	5320	0.00	0.00	18.05	17.08	20.60	23.92		0.60		30.00	Pass
VHT40	MCS0	2	54	5270	0.00	0.00	19.64	19.58	22.62	23.98		0.60		30.00	Pass
VHT40	MCS0	2	62	5310	0.00	0.00	18.15	16.65	20.47	23.98		0.60		30.00	Pass
VHT80	MCS0	2	58	5290	0.00	0.00	16.88	15.93	19.44	23.98		0.60		30.00	Pass
VHT160	MCS0	2	50	5250	0.00	0.00	14.75	14.79	17.78	23.98		0.60		30.00	Pass

Power Setting	
Ant 6	Ant 7
16	
16	
16	
17	
16.5	
17	
18	
16	
17	
16.5	
17	
18.5	
16	
15.5	
13	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2A MIMO																				
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)				EIRP Power Limit (dBm)	Pass/Fail	Power Setting	
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7					Ant 6	Ant 7
HE20	MCS0	2	52	5260	Full	0.00	0.00	17.97	17.33	20.67	23.98	0.60					30.00	Pass	17	
HE20	MCS0	2	52	5260	26/0	0.00	0.00	10.22	9.58	12.92	23.98	0.60					30.00	Pass	9.5	
HE20	MCS0	2	52	5260	52/37	0.00	0.00	13.04	12.84	15.95	23.98	0.60					30.00	Pass	11.5	
HE20	MCS0	2	52	5260	106/53	0.00	0.00	16.03	15.97	19.01	23.98	0.60					30.00	Pass	14.5	
HE20	MCS0	2	60	5300	Full	0.00	0.00	17.51	16.58	20.08	23.98	0.60					30.00	Pass	16.5	
HE20	MCS0	2	60	5300	26/0	0.00	0.00	10.17	9.53	12.87	23.98	0.60					30.00	Pass	9.5	
HE20	MCS0	2	60	5300	52/37	0.00	0.00	13.12	12.67	15.91	23.98	0.60					30.00	Pass	11.5	
HE20	MCS0	2	60	5300	106/53	0.00	0.00	16.17	15.48	18.85	23.98	0.60					30.00	Pass	14.5	
HE20	MCS0	2	64	5320	Full	0.00	0.00	18.08	17.12	20.64	23.98	0.60					30.00	Pass	17	
HE20	MCS0	2	64	5320	26/8	0.00	0.00	10.38	9.56	13.00	23.98	0.60					30.00	Pass	10	
HE20	MCS0	2	64	5320	52/40	0.00	0.00	12.89	12.26	15.60	23.98	0.60					30.00	Pass	11.5	
HE20	MCS0	2	64	5320	106/54	0.00	0.00	16.02	15.15	18.62	23.98	0.60					30.00	Pass	14.5	
HE40	MCS0	2	54	5270	Full	0.00	0.00	20.16	20.12	23.15	23.98	0.60					30.00	Pass	19	
HE40	MCS0	2	62	5310	Full	0.00	0.00	18.18	16.66	20.50	23.98	0.60					30.00	Pass	16	
HE80	MCS0	2	58	5290	Full	0.00	0.00	16.91	15.98	19.48	23.98	0.60					30.00	Pass	15.5	
HE160	MCS0	2	50	5250	Full	0.00	0.00	14.78	14.83	17.82	23.98	0.60					30.00	Pass	13	

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	100	5500	0.03	0.03	17.17	16.26	19.75	23.70		0.70		30.00	Pass
11a	6Mbps	2	116	5580	0.03	0.03	17.56	16.49	20.07	23.72		0.70		30.00	Pass
11a	6Mbps	2	140	5700	0.03	0.03	17.15	16.34	19.77	23.70		0.70		30.00	Pass
HT20	MCS0	2	100	5500	0.00	0.00	16.34	15.66	19.02	23.98		0.70		30.00	Pass
HT20	MCS0	2	116	5580	0.00	0.00	17.25	16.82	20.05	23.97		0.70		30.00	Pass
HT20	MCS0	2	140	5700	0.00	0.00	16.48	15.81	19.17	23.98		0.70		30.00	Pass
HT40	MCS0	2	102	5510	0.00	0.00	17.88	17.45	20.68	23.98		0.70		30.00	Pass
HT40	MCS0	2	110	5550	0.00	0.00	18.93	18.50	21.73	23.98		0.70		30.00	Pass
HT40	MCS0	2	134	5670	0.00	0.00	19.01	18.28	21.67	23.98		0.70		30.00	Pass
VHT20	MCS0	2	100	5500	0.00	0.00	16.39	15.69	19.06	23.98		0.70		30.00	Pass
VHT20	MCS0	2	116	5580	0.00	0.00	17.33	16.89	20.13	23.97		0.70		30.00	Pass
VHT20	MCS0	2	140	5700	0.00	0.00	16.50	15.83	19.19	23.98		0.70		30.00	Pass
VHT40	MCS0	2	102	5510	0.00	0.00	17.93	17.48	20.72	23.98		0.70		30.00	Pass
VHT40	MCS0	2	110	5550	0.00	0.00	19.55	19.36	22.47	23.98		0.70		30.00	Pass
VHT40	MCS0	2	134	5670	0.00	0.00	19.09	18.37	21.76	23.98		0.70		30.00	Pass
VHT80	MCS0	2	106	5530	0.00	0.00	16.35	16.11	19.24	23.98		0.70		30.00	Pass
VHT80	MCS0	2	122	5610	0.00	0.00	18.04	17.67	20.87	23.98		0.70		30.00	Pass
VHT160	MCS0	2	114	5570	0.00	0.00	14.32	13.88	17.12	23.98		0.70		30.00	Pass

FCC U-NII-2C straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	144	5720	0.03	0.03	17.14	16.25	19.73	23.72		0.70		30.00	Pass
HT20	MCS0	2	144	5720	0.00	0.00	16.51	15.78	19.17	23.94		0.70		30.00	Pass
HT40	MCS0	2	142	5710	0.00	0.00	18.69	18.75	21.73	23.98		0.70		30.00	Pass
VHT20	MCS0	2	144	5720	0.00	0.00	16.53	15.81	19.20	23.94		0.70		30.00	Pass
VHT40	MCS0	2	142	5710	0.00	0.00	18.95	18.85	21.91	23.98		0.70		30.00	Pass
VHT80	MCS0	2	138	5690	0.00	0.00	18.86	18.80	21.84	23.98		0.70		30.00	Pass

TEST RESULTS DATA
Average Power Table

FCC U-NII-2C MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	100	5500	Full	0.00	0.00	16.43	15.72	19.10	23.98		0.70		30.00	Pass
HE20	MCS0	2	100	5500	26/0	0.00	0.00	8.41	7.76	11.11	23.98		0.70		30.00	Pass
HE20	MCS0	2	100	5500	52/37	0.00	0.00	10.41	9.52	13.00	23.98		0.70		30.00	Pass
HE20	MCS0	2	100	5500	106/53	0.00	0.00	13.82	13.95	16.90	23.98		0.70		30.00	Pass
HE20	MCS0	2	116	5580	Full	0.00	0.00	17.87	17.45	20.68	23.98		0.70		30.00	Pass
HE20	MCS0	2	116	5580	26/0	0.00	0.00	9.86	10.06	12.97	23.98		0.70		30.00	Pass
HE20	MCS0	2	116	5580	52/37	0.00	0.00	13.15	12.91	16.04	23.98		0.70		30.00	Pass
HE20	MCS0	2	116	5580	106/53	0.00	0.00	16.17	15.99	19.09	23.98		0.70		30.00	Pass
HE20	MCS0	2	140	5700	Full	0.00	0.00	16.54	15.85	19.22	23.98		0.70		30.00	Pass
HE20	MCS0	2	140	5700	26/8	0.00	0.00	7.63	7.81	10.73	23.98		0.70		30.00	Pass
HE20	MCS0	2	140	5700	52/40	0.00	0.00	9.62	10.05	12.85	23.98		0.70		30.00	Pass
HE20	MCS0	2	140	5700	106/54	0.00	0.00	13.62	13.47	16.56	23.98		0.70		30.00	Pass
HE40	MCS0	2	102	5510	Full	0.00	0.00	17.94	17.51	20.74	23.98		0.70		30.00	Pass
HE40	MCS0	2	110	5550	Full	0.00	0.00	20.08	19.88	22.99	23.98		0.70		30.00	Pass
HE40	MCS0	2	134	5670	Full	0.00	0.00	19.14	18.41	21.80	23.98		0.70		30.00	Pass
HE80	MCS0	2	106	5530	Full	0.00	0.00	16.39	16.16	19.29	23.98		0.70		30.00	Pass
HE80	MCS0	2	122	5610	Full	0.00	0.00	18.09	17.72	20.92	23.98		0.70		30.00	Pass
HE160	MCS0	2	114	5570	Full	0.00	0.00	14.35	13.92	17.15	23.98		0.70		30.00	Pass

Power Setting	
Ant 6	Ant 7
15.5	
8	
10	
12.5	
17	
9.5	
11.5	
14.5	
15.5	
8	
10	
12.5	
16.5	
19	
17.5	
15	
17	
12.5	

FCC U-NII-2C straddle channel MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	144	5720	Full	0.00	0.00	16.56	15.83	19.22	23.98		0.70		30.00	Pass
HE20	MCS0	2	144	5720	26/8	0.00	0.00	7.87	8.27	11.08	23.98		0.70		30.00	Pass
HE20	MCS0	2	144	5720	52/40	0.00	0.00	9.78	10.25	13.03	23.98		0.70		30.00	Pass
HE20	MCS0	2	144	5720	106/54	0.00	0.00	13.57	13.35	16.47	23.98		0.70		30.00	Pass
HE40	MCS0	2	142	5710	Full	0.00	0.00	19.98	19.91	22.96	23.98		0.70		30.00	Pass
HE80	MCS0	2	138	5690	Full	0.00	0.00	18.92	18.84	21.89	23.98		0.70		30.00	Pass

Power Setting	
Ant 6	Ant 7
15.5	
8	
10	
12.5	
19	
18	

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7	
11a	6Mbps	2	149	5745	0.03	0.03	17.78	17.39	20.60	30.00		1.40		Pass
11a	6Mbps	2	157	5785	0.03	0.03	19.20	19.12	22.17	30.00		1.40		Pass
11a	6Mbps	2	165	5825	0.03	0.03	20.85	20.19	23.54	30.00		1.40		Pass
HT20	MCS0	2	149	5745	0.00	0.00	16.95	16.66	19.82	30.00		1.40		Pass
HT20	MCS0	2	157	5785	0.00	0.00	17.55	17.31	20.44	30.00		1.40		Pass
HT20	MCS0	2	165	5825	0.00	0.00	17.77	17.52	20.66	30.00		1.40		Pass
HT40	MCS0	2	151	5755	0.00	0.00	18.67	18.34	21.52	30.00		1.40		Pass
HT40	MCS0	2	159	5795	0.00	0.00	18.70	18.17	21.45	30.00		1.40		Pass
VHT20	MCS0	2	149	5745	0.00	0.00	16.96	16.68	19.83	30.00		1.40		Pass
VHT20	MCS0	2	157	5785	0.00	0.00	17.57	17.34	20.47	30.00		1.40		Pass
VHT20	MCS0	2	165	5825	0.00	0.00	19.19	18.72	21.97	30.00		1.40		Pass
VHT40	MCS0	2	151	5755	0.00	0.00	19.98	19.42	22.72	30.00		1.40		Pass
VHT40	MCS0	2	159	5795	0.00	0.00	19.97	19.33	22.67	30.00		1.40		Pass
VHT80	MCS0	2	155	5775	0.00	0.00	18.63	18.19	21.43	30.00		1.40		Pass

Power Setting	
Ant 6	Ant 7
17	
18.5	
20	
16.5	
17	
18	
18	
16.5	
17	
19	
19	
19	
18	

TEST RESULTS DATA
Average Power Table

U-NII-3 MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Average Conducted Power with duty factor (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail	Power Setting	
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	Ant 6	Ant 7		Ant 6	Ant 7
HE20	MCS0	2	149	5745	Full	0.00	0.00	16.99	16.71	19.86	30.00		1.40	Pass		Ant 6	Ant 7
HE20	MCS0	2	149	5745	26/0	0.00	0.00	9.05	8.09	11.61	30.00		1.40	Pass			16.5
HE20	MCS0	2	149	5745	52/37	0.00	0.00	12.19	11.92	15.07	30.00		1.40	Pass			9
HE20	MCS0	2	149	5745	106/53	0.00	0.00	15.19	14.81	18.01	30.00		1.40	Pass			11
HE20	MCS0	2	157	5785	Full	0.00	0.00	17.59	17.38	20.50	30.00		1.40	Pass			14
HE20	MCS0	2	157	5785	26/0	0.00	0.00	9.48	8.57	12.06	30.00		1.40	Pass			17
HE20	MCS0	2	157	5785	52/37	0.00	0.00	12.92	12.32	15.64	30.00		1.40	Pass			9.5
HE20	MCS0	2	157	5785	106/53	0.00	0.00	15.78	15.23	18.52	30.00		1.40	Pass			11.5
HE20	MCS0	2	165	5825	Full	0.00	0.00	19.21	18.77	22.01	30.00		1.40	Pass			14.5
HE20	MCS0	2	165	5825	26/8	0.00	0.00	12.23	11.45	14.87	30.00		1.40	Pass			19
HE20	MCS0	2	165	5825	52/40	0.00	0.00	15.07	14.44	17.78	30.00		1.40	Pass			10.5
HE20	MCS0	2	165	5825	106/54	0.00	0.00	17.82	16.95	20.42	30.00		1.40	Pass			13.5
HE40	MCS0	2	151	5755	Full	0.00	0.00	20.02	19.45	22.75	30.00		1.40	Pass			16.5
HE40	MCS0	2	159	5795	Full	0.00	0.00	19.99	19.37	22.70	30.00		1.40	Pass			19
HE80	MCS0	2	155	5775	Full	0.00	0.00	18.68	18.22	21.47	30.00		1.40	Pass			19
																	18



Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant6	5180	19.00	5170.70	5189.70	---	---
	Ant7	5180	19.00	5170.60	5189.60	---	---
	Ant6	5220	18.80	5210.50	5229.30	---	---
	Ant7	5220	18.70	5210.70	5229.40	---	---
	Ant6	5240	18.70	5230.70	5249.40	---	---
	Ant7	5240	18.70	5230.70	5249.40	---	---
	Ant6	5260	18.60	5250.70	5269.30	---	---
	Ant7	5260	19.00	5250.50	5269.50	---	---
	Ant6	5300	18.50	5290.80	5309.30	---	---
	Ant7	5300	19.10	5290.40	5309.50	---	---
	Ant6	5320	18.90	5310.40	5329.30	---	---
	Ant7	5320	19.10	5310.40	5329.50	---	---
	Ant6	5500	18.60	5490.70	5509.30	---	---
	Ant7	5500	19.00	5490.50	5509.50	---	---
	Ant6	5580	18.70	5570.60	5589.30	---	---
	Ant7	5580	18.90	5570.60	5589.50	---	---
	Ant6	5700	18.60	5690.70	5709.30	---	---
	Ant7	5700	18.90	5690.60	5709.50	---	---
	Ant6	5720	18.70	5710.70	5729.40	---	---
	Ant7	5720	18.80	5710.70	5729.50	---	---
	Ant6	5745	18.60	5735.70	5754.30	---	---
	Ant7	5745	18.90	5735.60	5754.50	---	---
	Ant6	5785	19.40	5774.90	5794.30	---	---
	Ant7	5785	18.90	5775.60	5794.50	---	---
	Ant6	5825	20.00	5814.90	5834.90	---	---
	Ant7	5825	19.10	5815.40	5834.50	---	---
11AC20MIMO	Ant6	5180	20.60	5169.80	5190.40	---	---
	Ant7	5180	19.90	5170.20	5190.10	---	---
	Ant6	5220	19.90	5210.10	5230.00	---	---
	Ant7	5220	20.10	5210.00	5230.10	---	---
	Ant6	5240	20.20	5229.90	5250.10	---	---
	Ant7	5240	19.70	5230.20	5249.90	---	---
	Ant6	5260	20.00	5249.80	5269.80	---	---
	Ant7	5260	19.70	5250.20	5269.90	---	---
	Ant6	5300	19.90	5290.00	5309.90	---	---
	Ant7	5300	19.80	5290.10	5309.90	---	---
	Ant6	5320	19.90	5310.10	5330.00	---	---



	Ant7	5320	19.60	5310.20	5329.80	---	---
	Ant6	5500	20.00	5489.90	5509.90	---	---
	Ant7	5500	19.90	5490.10	5510.00	---	---
	Ant6	5580	20.10	5569.80	5589.90	---	---
	Ant7	5580	19.80	5570.20	5590.00	---	---
	Ant6	5700	20.00	5689.90	5709.90	---	---
	Ant7	5700	19.90	5690.10	5710.00	---	---
	Ant6	5720	19.70	5710.20	5729.90	---	---
	Ant7	5720	19.80	5710.10	5729.90	---	---
	Ant6	5745	20.10	5734.80	5754.90	---	---
	Ant7	5745	19.50	5735.30	5754.80	---	---
	Ant6	5785	19.90	5775.00	5794.90	---	---
	Ant7	5785	19.80	5775.10	5794.90	---	---
	Ant6	5825	20.00	5814.90	5834.90	---	---
	Ant7	5825	19.60	5815.30	5834.90	---	---
11AC40MIMO	Ant6	5190	39.60	5170.40	5210.00	---	---
	Ant7	5190	39.40	5170.60	5210.00	---	---
	Ant6	5230	39.60	5210.40	5250.00	---	---
	Ant7	5230	39.60	5210.20	5249.80	---	---
	Ant6	5270	39.60	5250.40	5290.00	---	---
	Ant7	5270	40.20	5250.00	5290.20	---	---
	Ant6	5310	39.60	5290.20	5329.80	---	---
	Ant7	5310	39.60	5290.40	5330.00	---	---
	Ant6	5510	39.60	5490.20	5529.80	---	---
	Ant7	5510	39.60	5490.20	5529.80	---	---
	Ant6	5550	39.80	5530.40	5570.20	---	---
	Ant7	5550	39.40	5530.40	5569.80	---	---
	Ant6	5670	39.60	5650.20	5689.80	---	---
	Ant7	5670	39.60	5650.40	5690.00	---	---
	Ant6	5710	39.40	5690.40	5729.80	---	---
	Ant7	5710	39.60	5690.40	5730.00	---	---
	Ant6	5755	39.80	5735.40	5775.20	---	---
	Ant7	5755	39.40	5735.40	5774.80	---	---
	Ant6	5795	40.00	5775.20	5815.20	---	---
	Ant7	5795	39.20	5775.40	5814.60	---	---
11AC80MIMO	Ant6	5210	80.80	5169.60	5250.40	---	---
	Ant7	5210	80.80	5170.00	5250.80	---	---
	Ant6	5290	81.20	5249.60	5330.80	---	---
	Ant7	5290	81.60	5249.20	5330.80	---	---
	Ant6	5530	81.20	5489.60	5570.80	---	---
	Ant7	5530	80.40	5490.00	5570.40	---	---
	Ant6	5610	81.20	5569.60	5650.80	---	---
	Ant7	5610	79.60	5570.40	5650.00	---	---



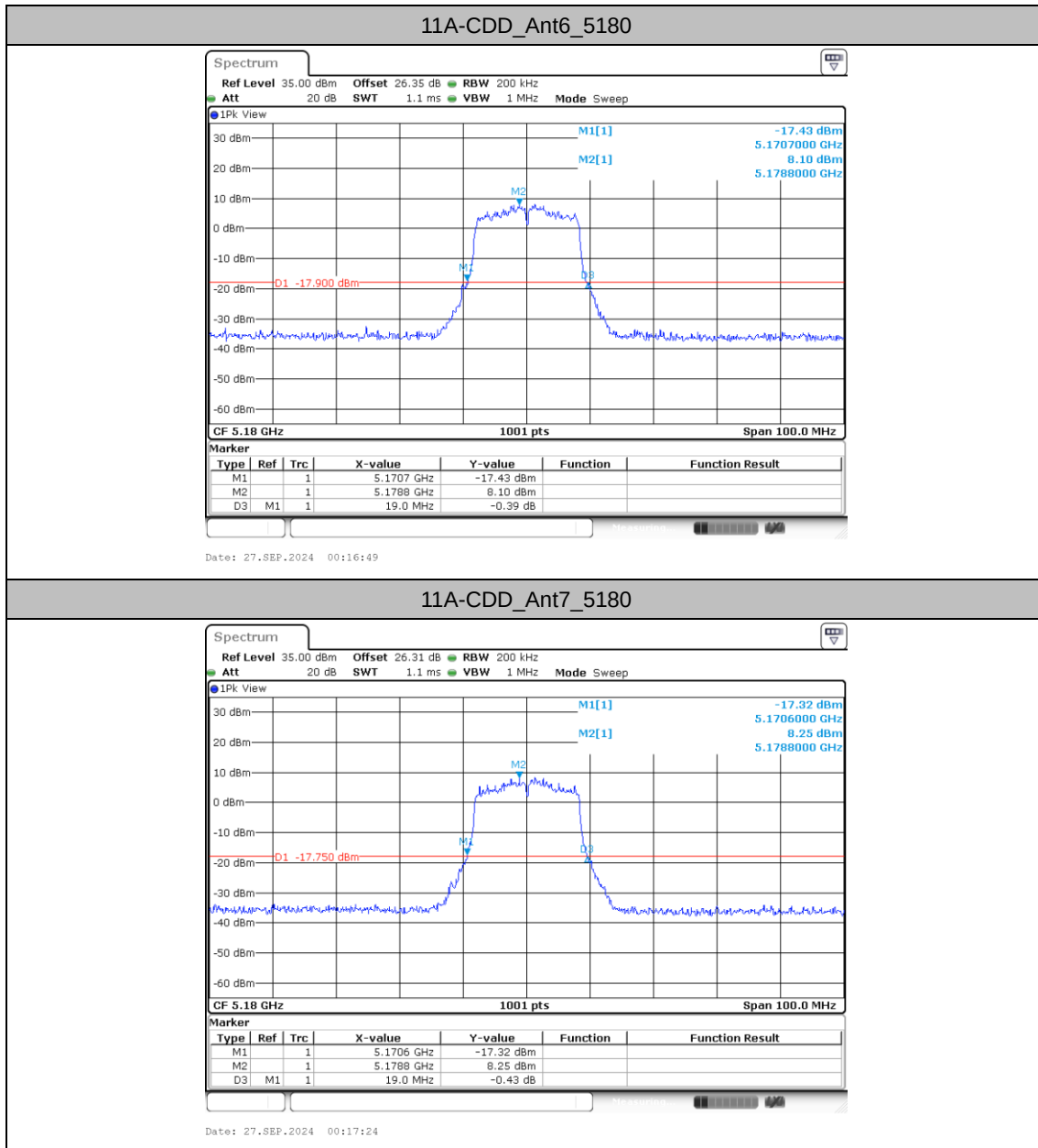
	Ant6	5690	80.80	5649.60	5730.40	---	---
	Ant7	5690	80.40	5650.00	5730.40	---	---
	Ant6	5775	80.40	5735.00	5815.40	---	---
	Ant7	5775	80.40	5735.00	5815.40	---	---
11AC160MIMO	Ant6	5250	163.20	5168.40	5331.60	---	---
	Ant7	5250	163.20	5169.20	5332.40	---	---
	Ant6	5570	163.20	5489.20	5652.40	---	---
	Ant7	5570	164.00	5488.40	5652.40	---	---
11AX20MIMO	Ant6	5180	21.20	5169.20	5190.40	---	---
	Ant7	5180	20.30	5169.90	5190.20	---	---
	Ant6	5220	20.90	5209.60	5230.50	---	---
	Ant7	5220	20.60	5209.80	5230.40	---	---
	Ant6	5240	20.70	5229.70	5250.40	---	---
	Ant7	5240	20.60	5229.60	5250.20	---	---
	Ant6	5260	20.70	5249.70	5270.40	---	---
	Ant7	5260	20.60	5249.80	5270.40	---	---
	Ant6	5300	20.90	5289.60	5310.50	---	---
	Ant7	5300	20.50	5289.80	5310.30	---	---
	Ant6	5320	21.00	5309.60	5330.60	---	---
	Ant7	5320	20.80	5309.70	5330.50	---	---
	Ant6	5500	21.40	5489.20	5510.60	---	---
	Ant7	5500	21.20	5489.60	5510.80	---	---
	Ant6	5580	20.90	5569.70	5590.60	---	---
	Ant7	5580	20.70	5569.80	5590.50	---	---
	Ant6	5700	21.40	5689.10	5710.50	---	---
	Ant7	5700	20.70	5689.70	5710.40	---	---
	Ant6	5720	21.00	5709.60	5730.60	---	---
	Ant7	5720	20.90	5709.60	5730.50	---	---
	Ant6	5745	22.60	5734.50	5757.10	---	---
	Ant7	5745	22.20	5734.20	5756.40	---	---
	Ant6	5785	23.30	5773.60	5796.90	---	---
	Ant7	5785	22.80	5773.30	5796.10	---	---
	Ant6	5825	22.50	5814.00	5836.50	---	---
	Ant7	5825	22.90	5814.20	5837.10	---	---
11AX40MIMO	Ant6	5190	40.60	5169.60	5210.20	---	---
	Ant7	5190	41.00	5170.00	5211.00	---	---
	Ant6	5230	39.80	5210.20	5250.00	---	---
	Ant7	5230	41.80	5208.80	5250.60	---	---
	Ant6	5270	42.40	5249.00	5291.40	---	---
	Ant7	5270	41.20	5249.40	5290.60	---	---
	Ant6	5310	42.00	5288.60	5330.60	---	---
	Ant7	5310	40.20	5290.00	5330.20	---	---
	Ant6	5510	44.40	5488.00	5532.40	---	---



	Ant7	5510	41.80	5488.80	5530.60	---	---
	Ant6	5550	44.00	5528.80	5572.80	---	---
	Ant7	5550	40.60	5529.80	5570.40	---	---
	Ant6	5670	40.40	5650.20	5690.60	---	---
	Ant7	5670	39.80	5650.20	5690.00	---	---
	Ant6	5710	41.00	5689.60	5730.60	---	---
	Ant7	5710	41.40	5689.60	5731.00	---	---
	Ant6	5755	42.20	5733.80	5776.00	---	---
	Ant7	5755	42.60	5733.20	5775.80	---	---
	Ant6	5795	43.20	5773.20	5816.40	---	---
	Ant7	5795	41.20	5774.20	5815.40	---	---
11AX80MIMO	Ant6	5210	81.20	5169.60	5250.80	---	---
	Ant7	5210	81.20	5169.60	5250.80	---	---
	Ant6	5290	81.60	5249.20	5330.80	---	---
	Ant7	5290	82.00	5249.60	5331.60	---	---
	Ant6	5530	82.40	5488.80	5571.20	---	---
	Ant7	5530	81.20	5489.60	5570.80	---	---
	Ant6	5610	80.80	5570.00	5650.80	---	---
	Ant7	5610	80.80	5570.00	5650.80	---	---
	Ant6	5690	81.60	5649.60	5731.20	---	---
	Ant7	5690	82.00	5649.20	5731.20	---	---
	Ant6	5775	81.20	5734.60	5815.80	---	---
11AX160MIMO	Ant7	5775	81.20	5734.60	5815.80	---	---
	Ant6	5250	162.40	5169.20	5331.60	---	---
	Ant7	5250	163.20	5169.20	5332.40	---	---
	Ant6	5570	165.60	5486.80	5652.40	---	---
	Ant7	5570	164.80	5488.40	5653.20	---	---

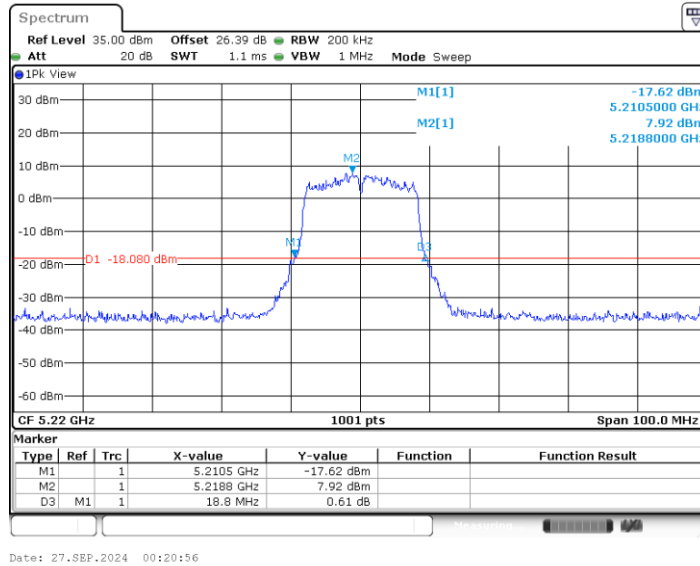


Test Graphs

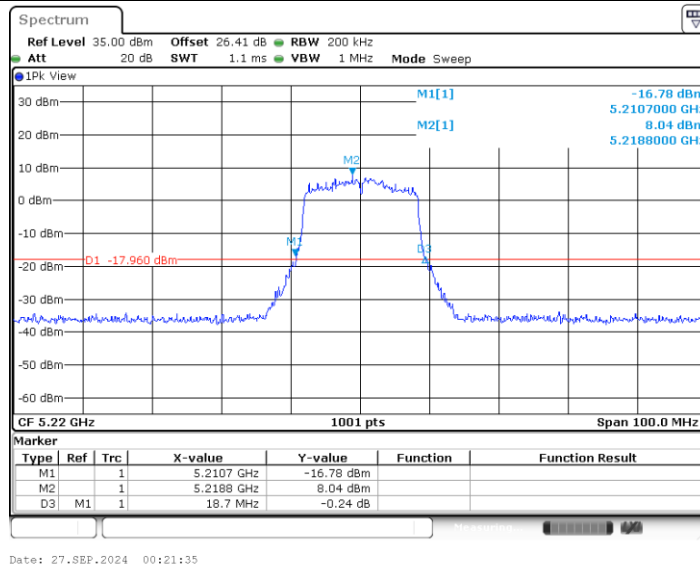




11A-CDD_Ant6_5220

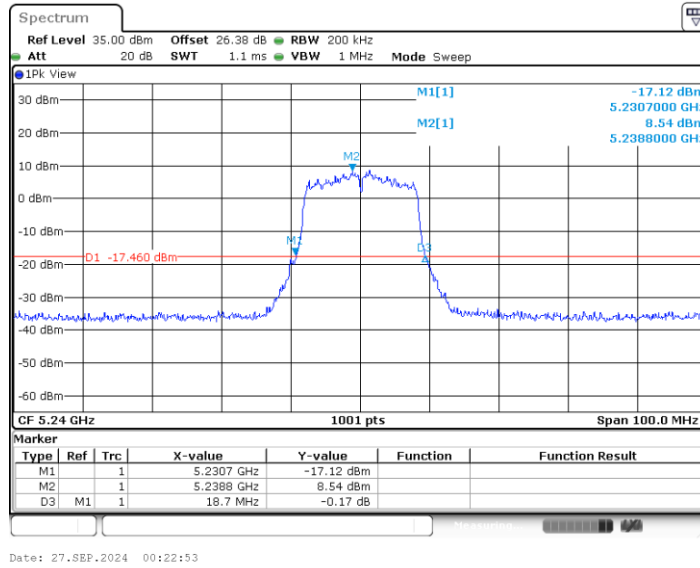


11A-CDD_Ant7_5220

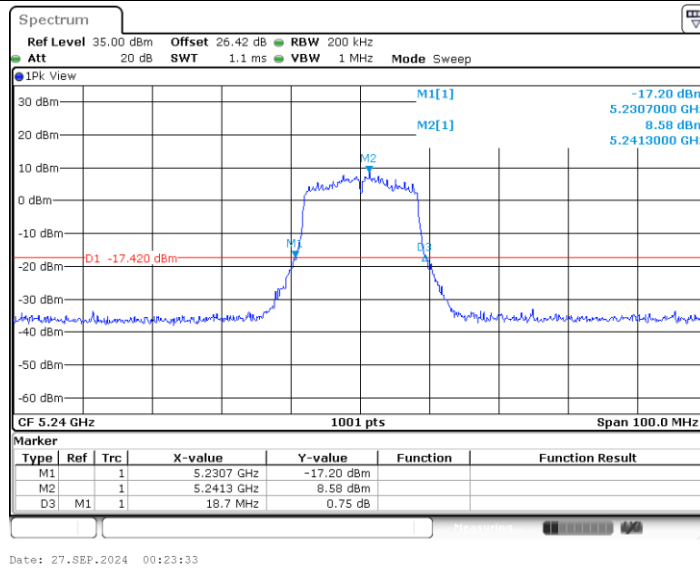




11A-CDD_Ant6_5240

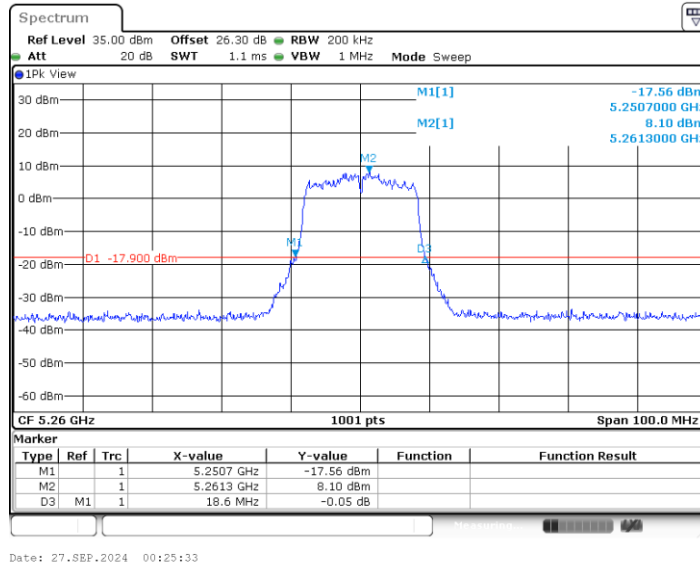


11A-CDD_Ant7_5240

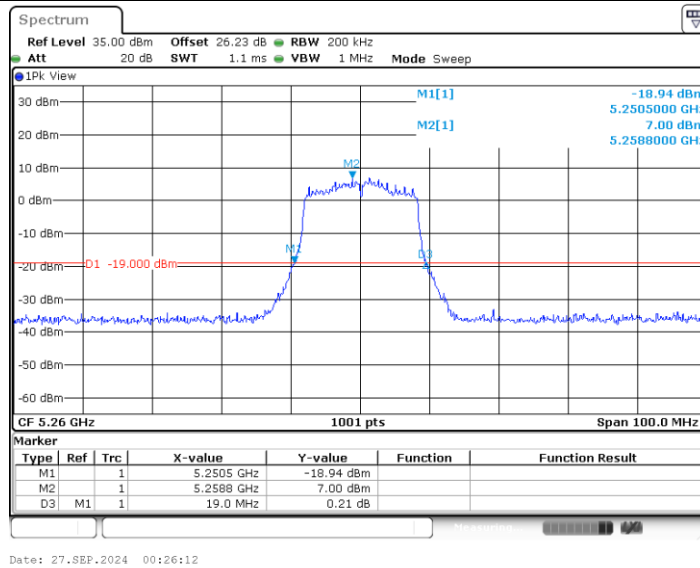




11A-CDD_Ant6_5260

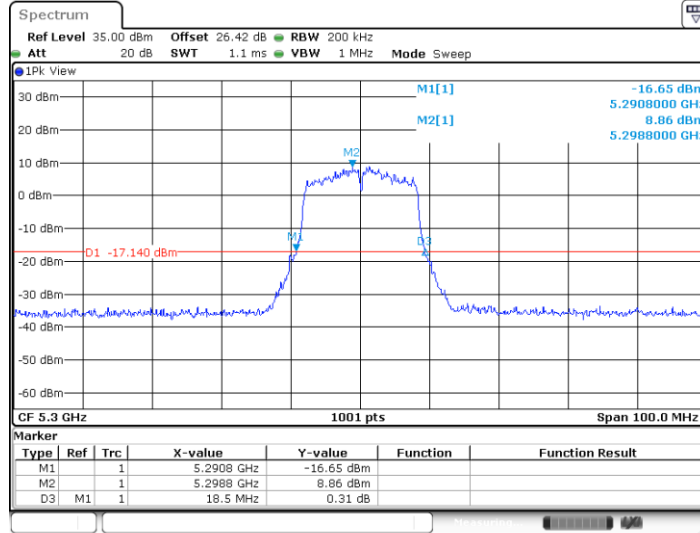


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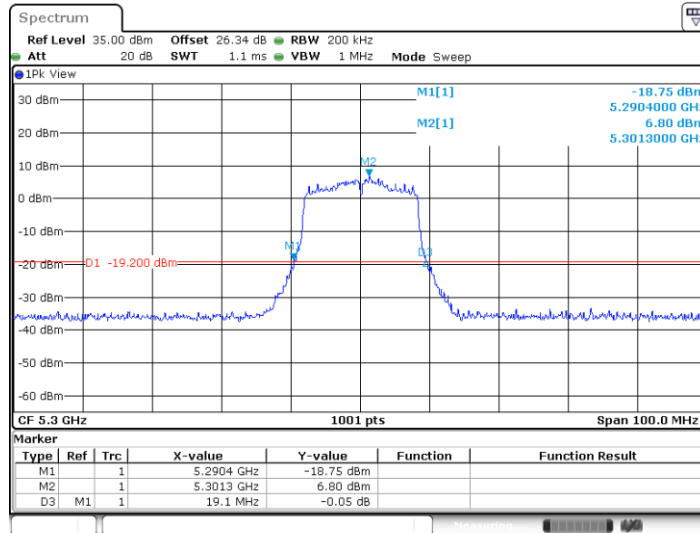




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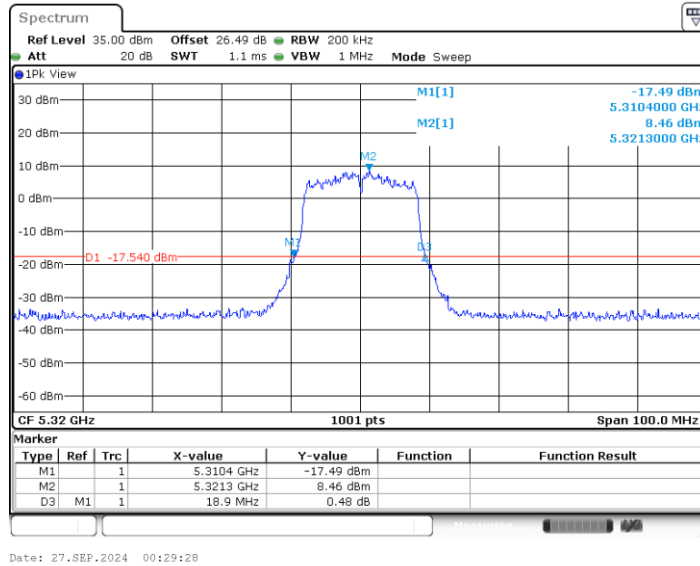


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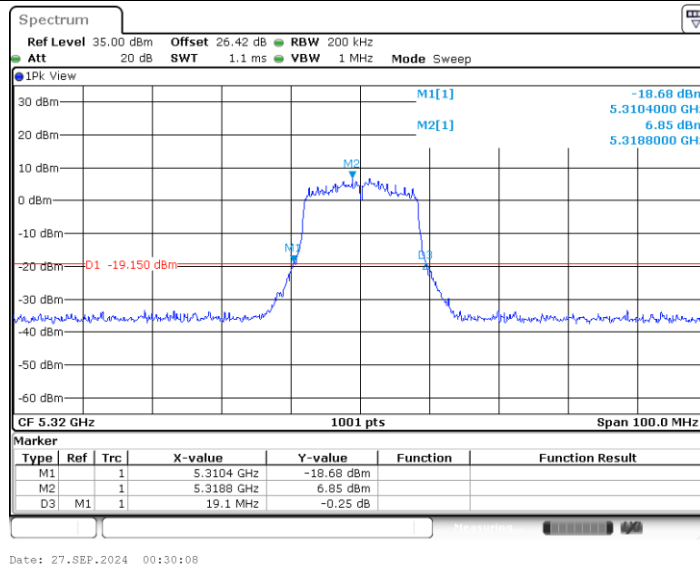




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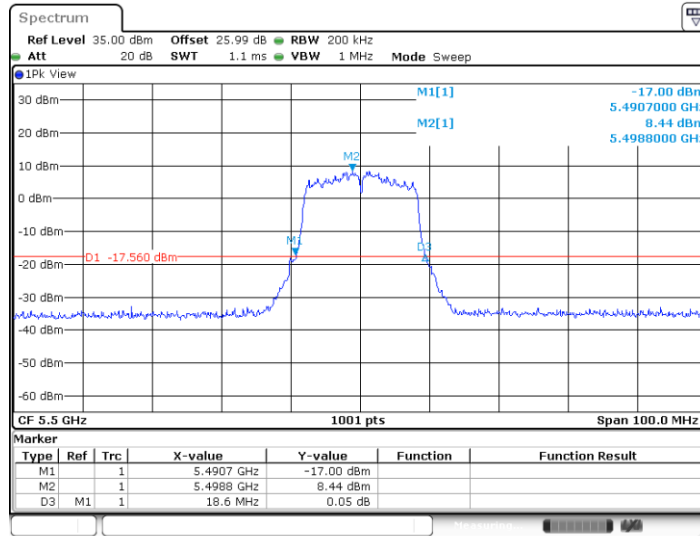


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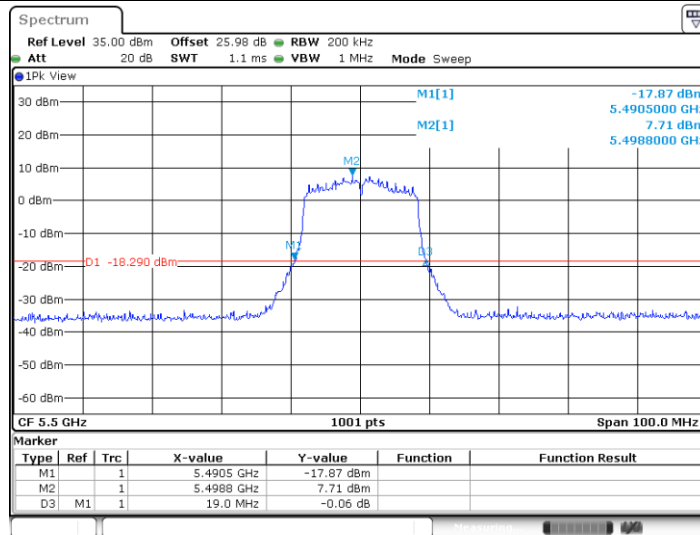




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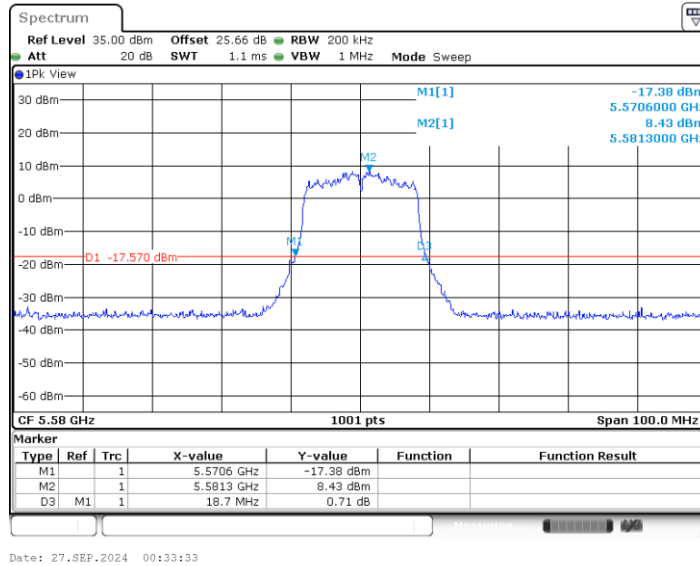


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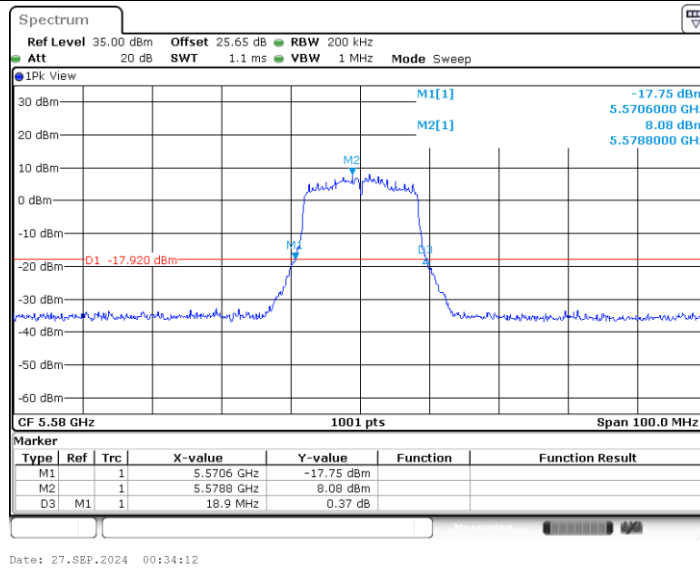




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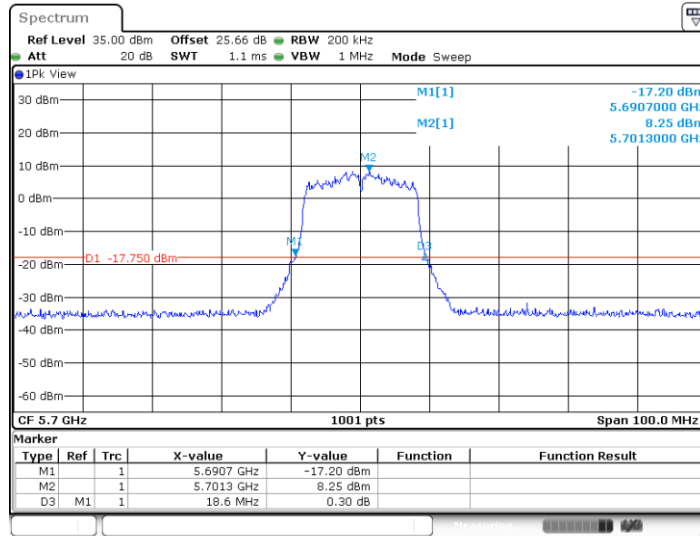


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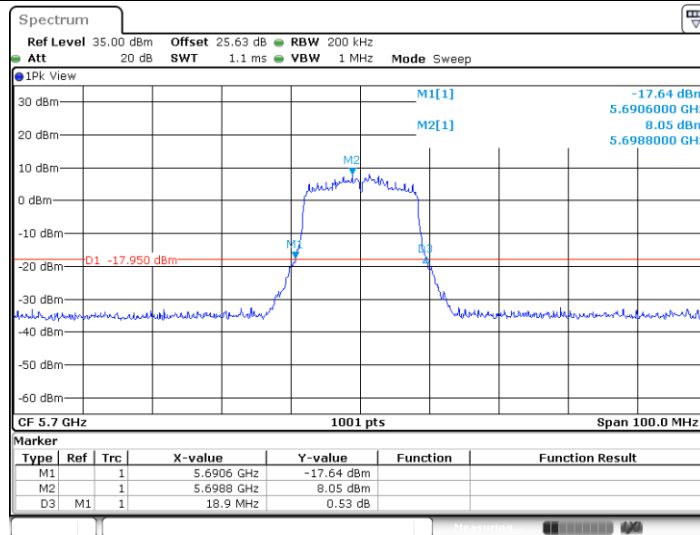




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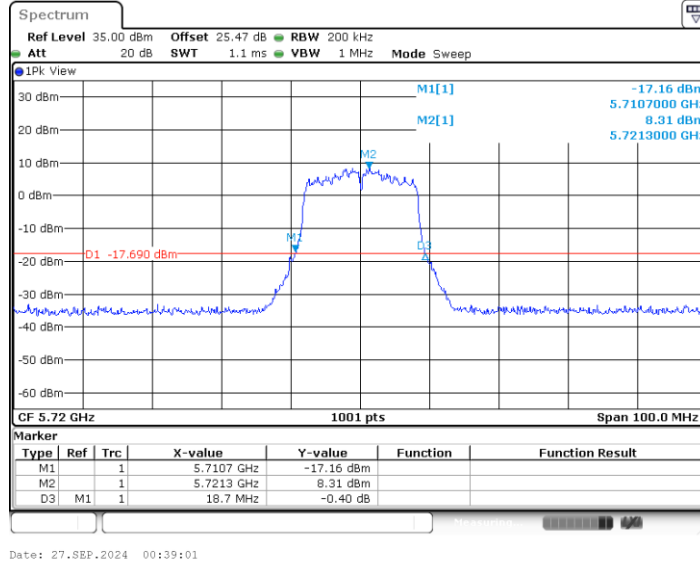


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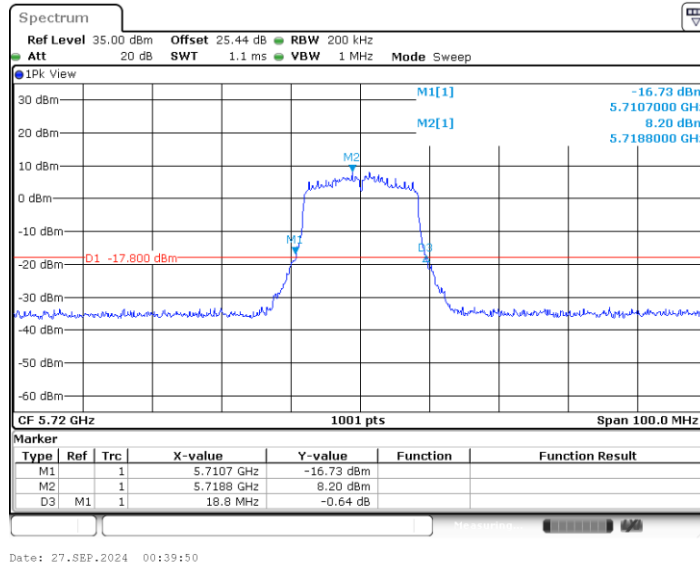




11A-CDD_Ant6_5720

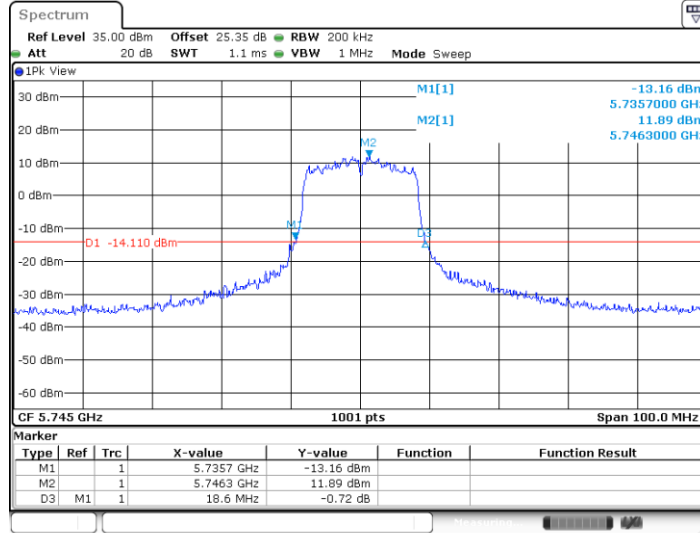


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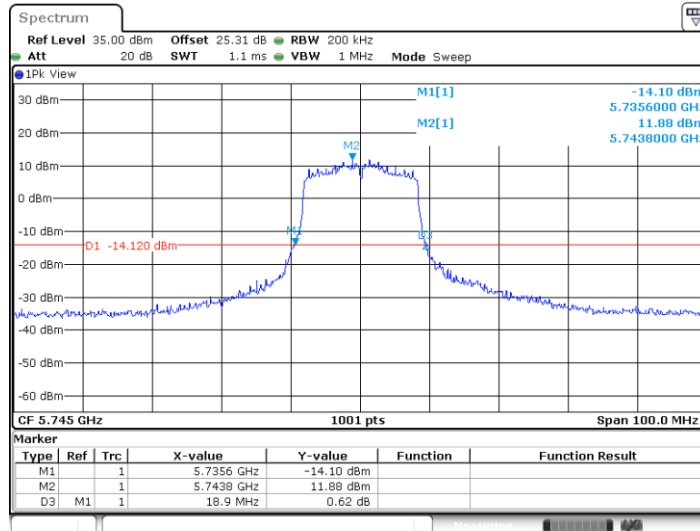


11A-CDD_Ant6_5745



Date: 27.SEP.2024 00:45:25

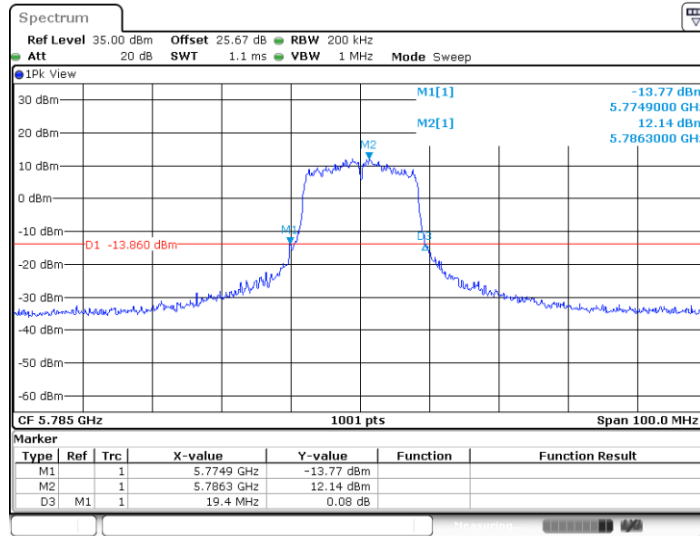
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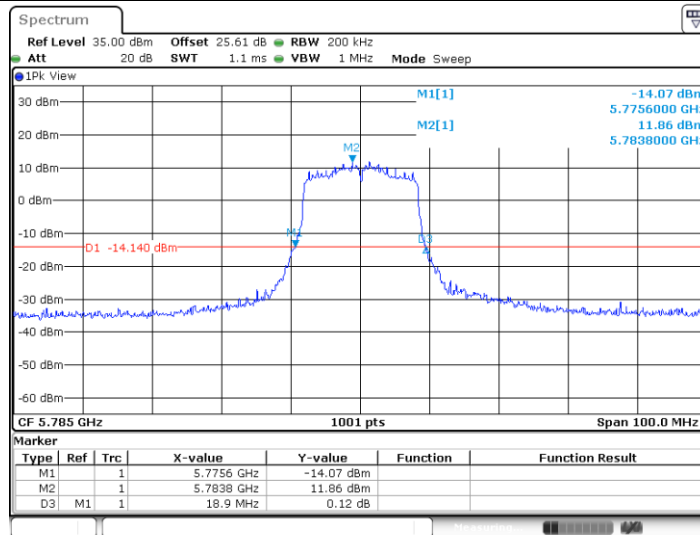
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11A-CDD_Ant6_5785

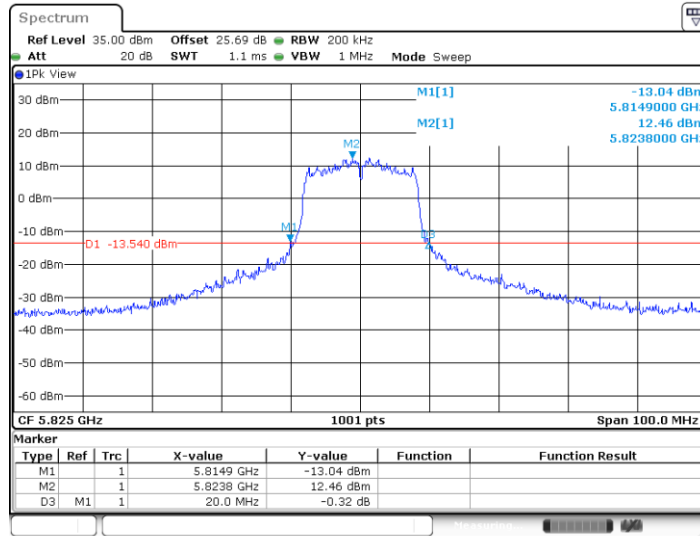


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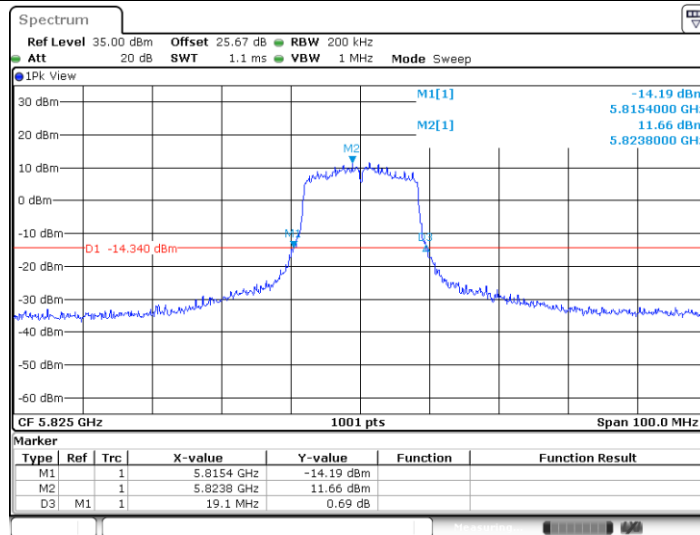




11A-CDD_Ant6_5825

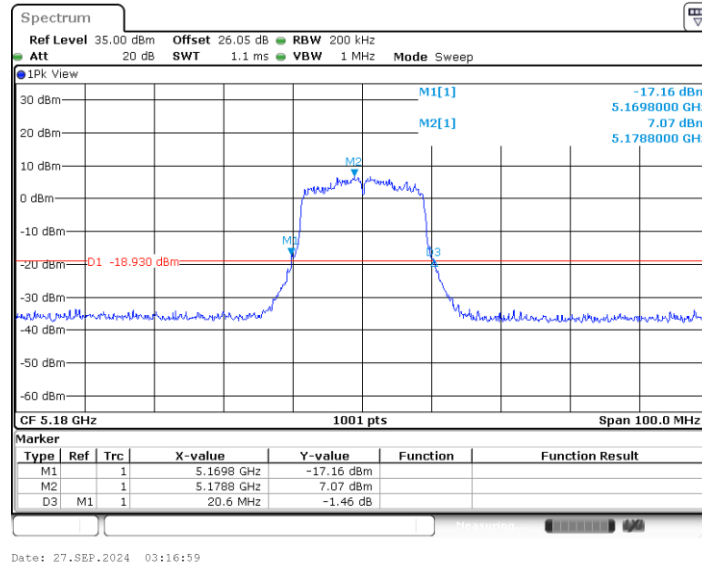


11A-CDD_Ant7_5825

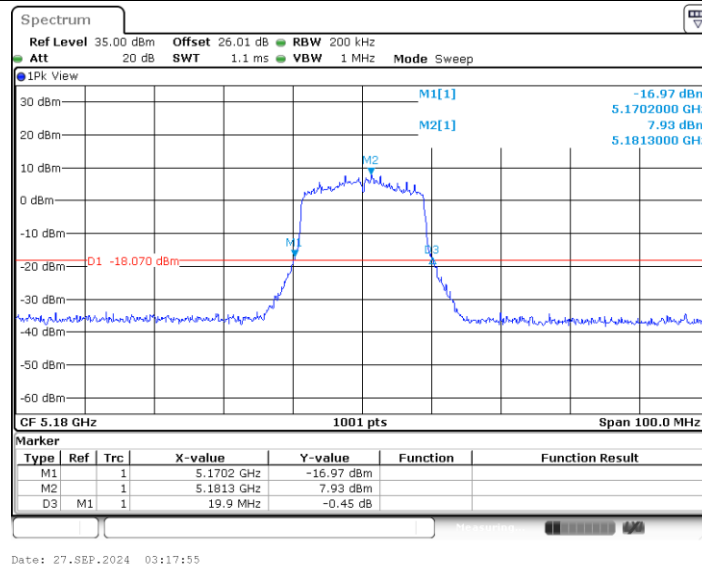




11AC20MIMO_Ant6_5180

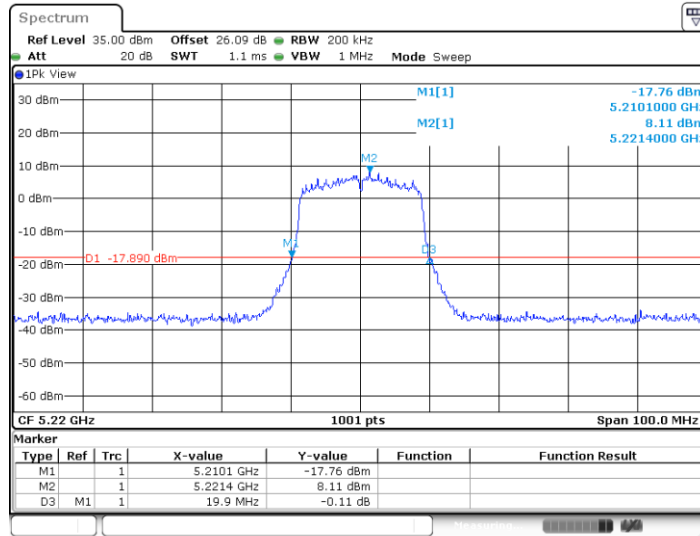


11AC20MIMO_Ant7_5180

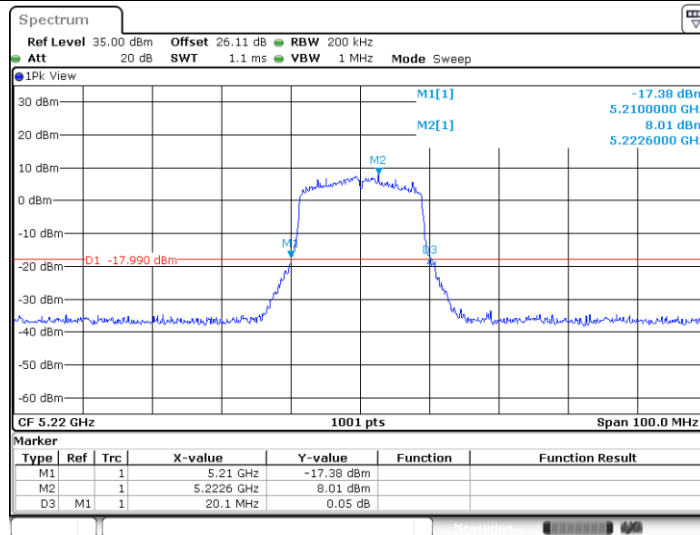




11AC20MIMO_Ant6_5220

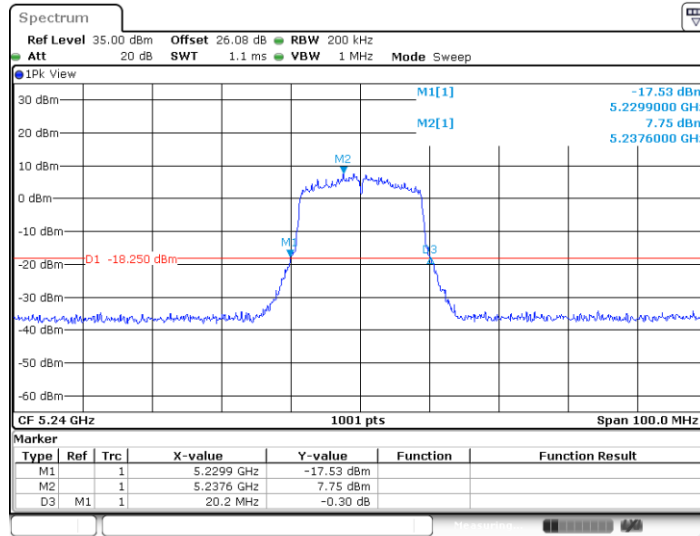


11AC20MIMO_Ant7_5220



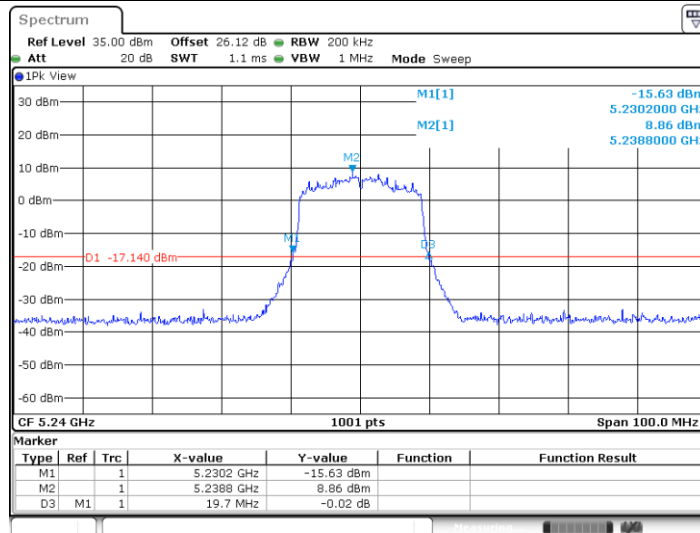


11AC20MIMO_Ant6_5240



Date: 28.SEP.2024 10:13:59

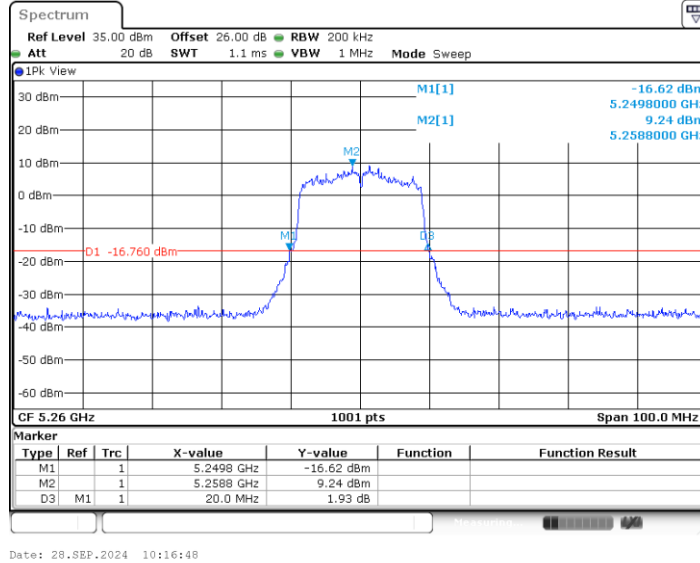
11AC20MIMO_Ant7_5240



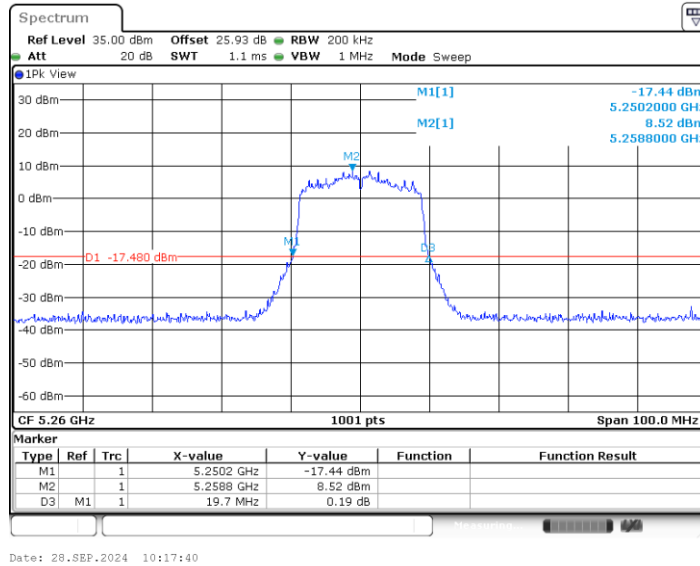
Date: 28.SEP.2024 10:14:50



11AC20MIMO_Ant6_5260

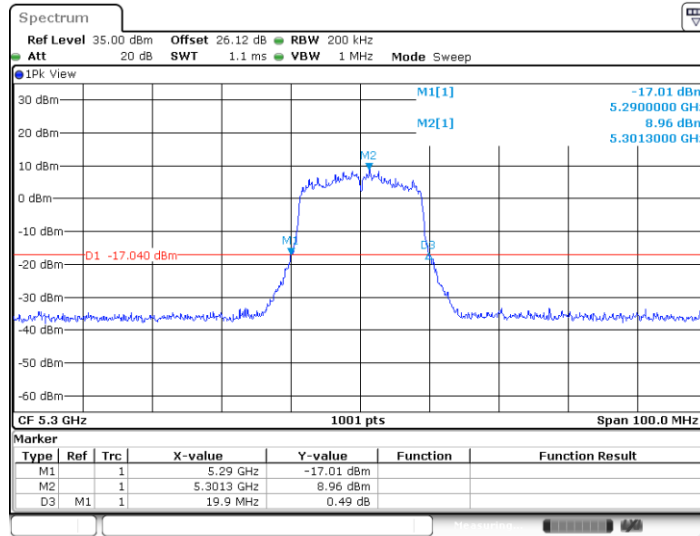


11AC20MIMO_Ant7_5260



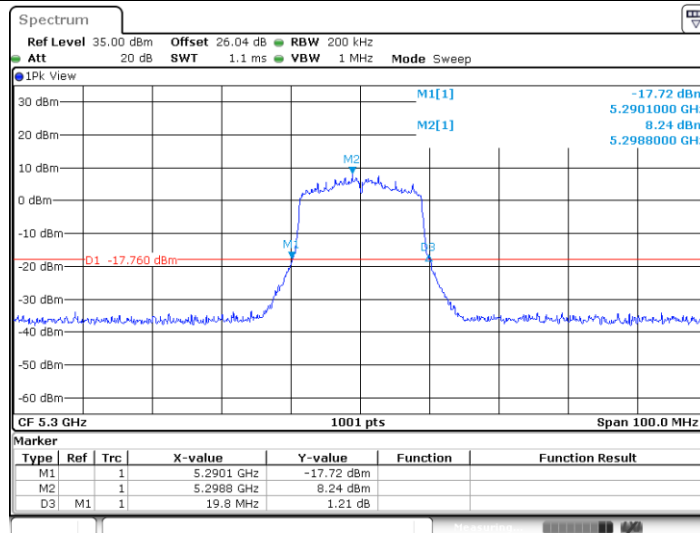


11AC20MIMO_Ant6_5300



Date: 28.SEP.2024 10:19:48

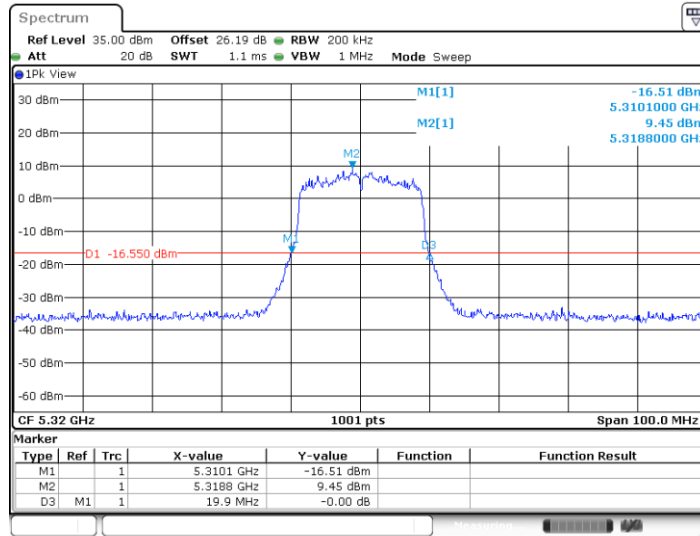
11AC20MIMO_Ant7_5300



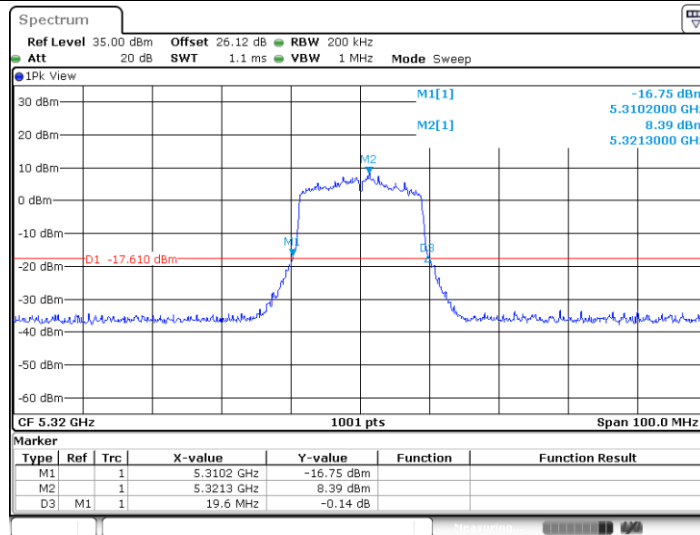
Date: 28.SEP.2024 10:20:40



11AC20MIMO_Ant6_5320

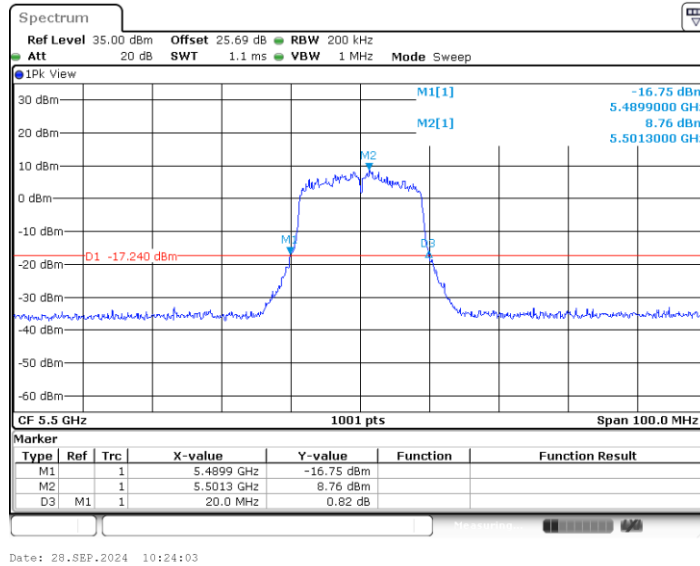


11AC20MIMO_Ant7_5320

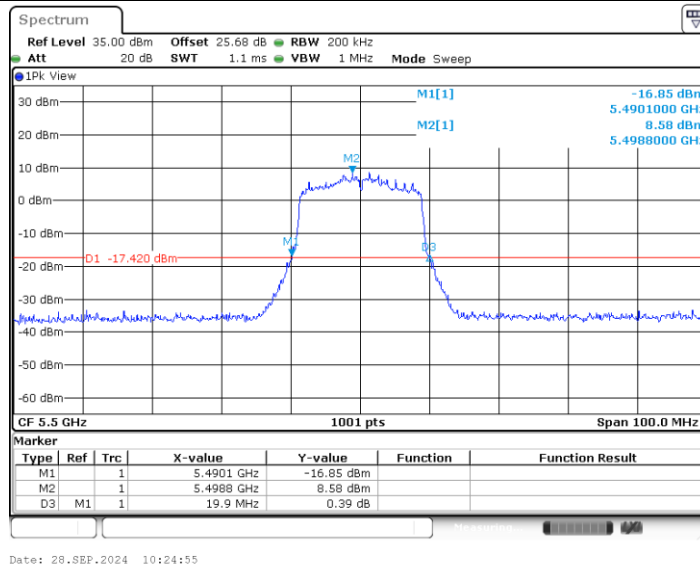




11AC20MIMO_Ant6_5500

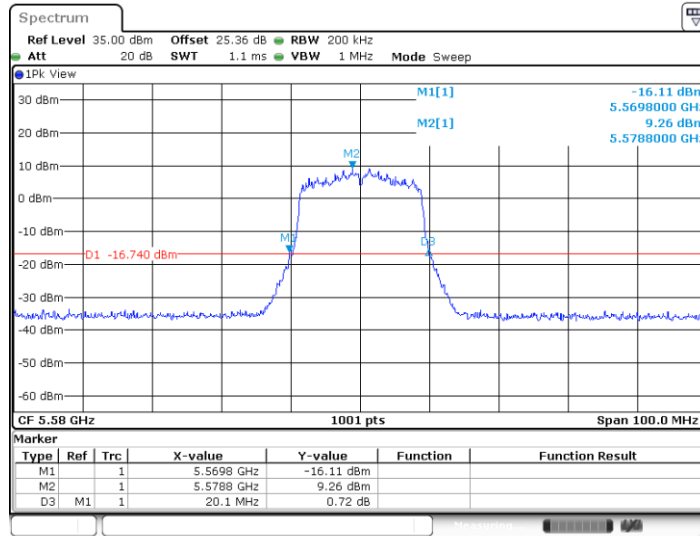


11AC20MIMO_Ant7_5500

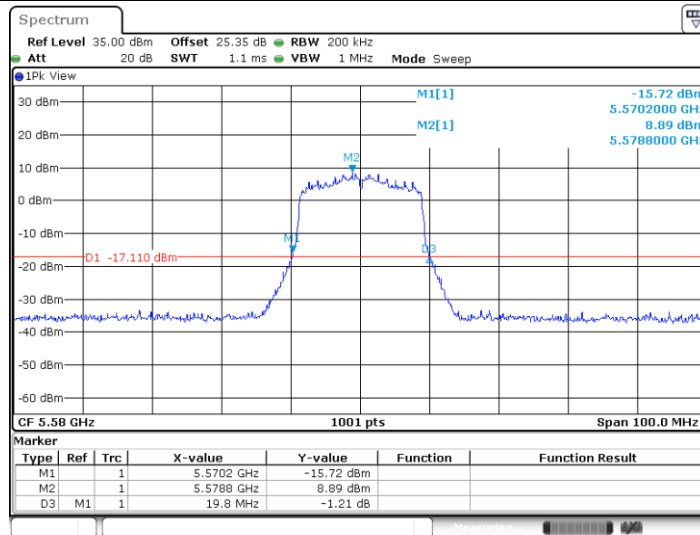




11AC20MIMO_Ant6_5580

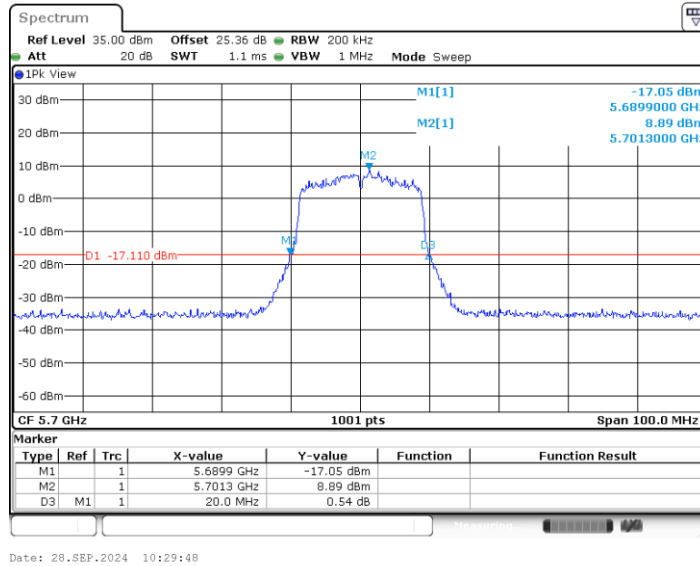


11AC20MIMO_Ant7_5580

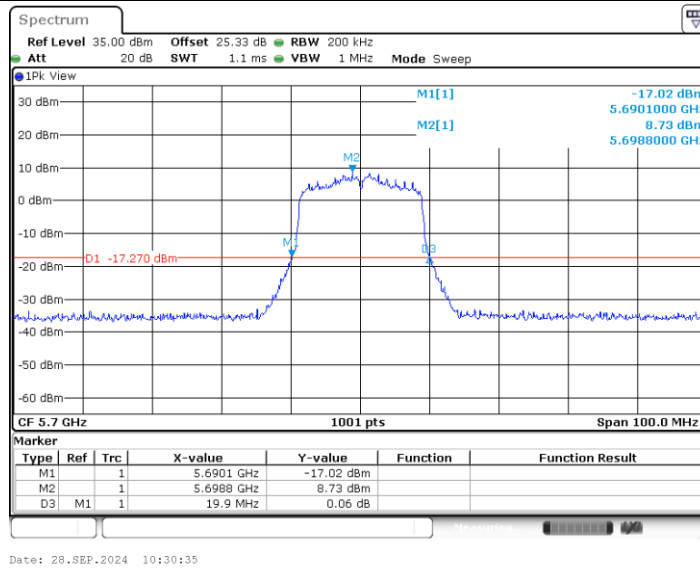




11AC20MIMO_Ant6_5700

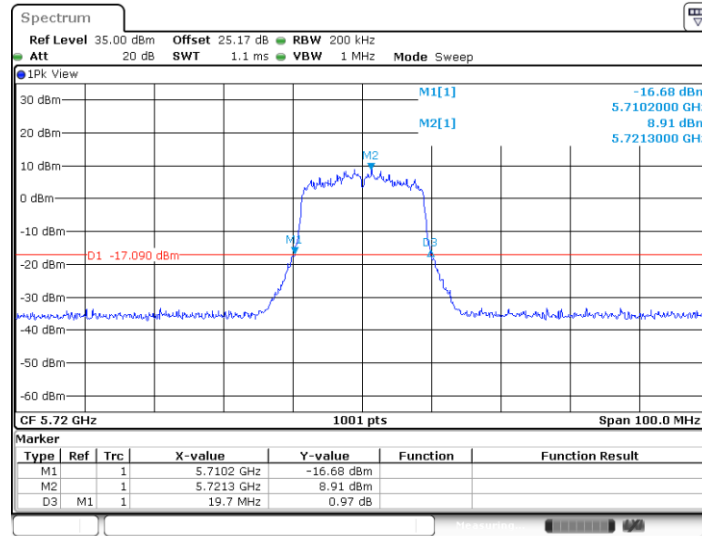


11AC20MIMO_Ant7_5700



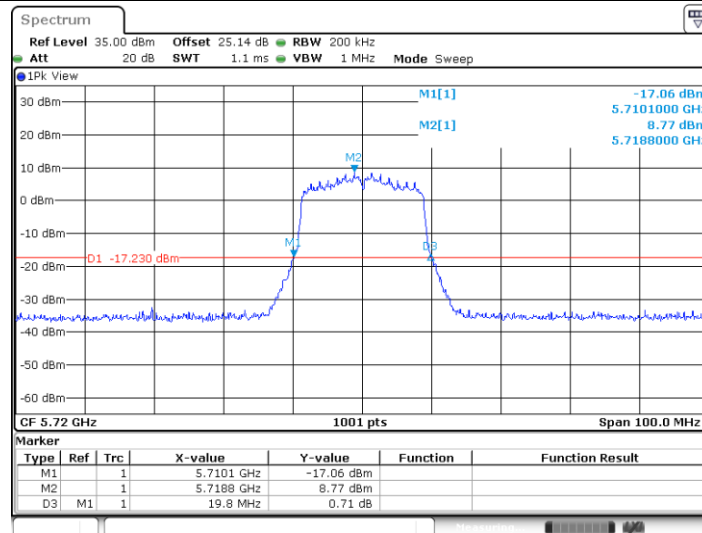


11AC20MIMO_Ant6_5720



Date: 28.SEP.2024 10:32:14

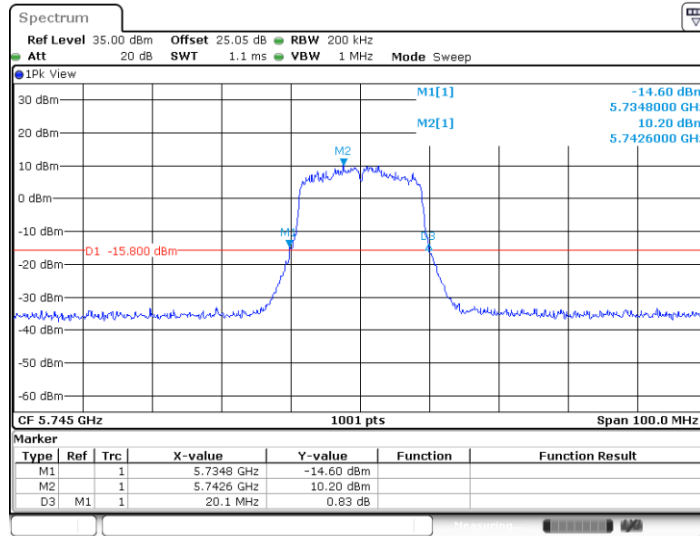
11AC20MIMO_Ant7_5720



Date: 28.SEP.2024 10:33:15

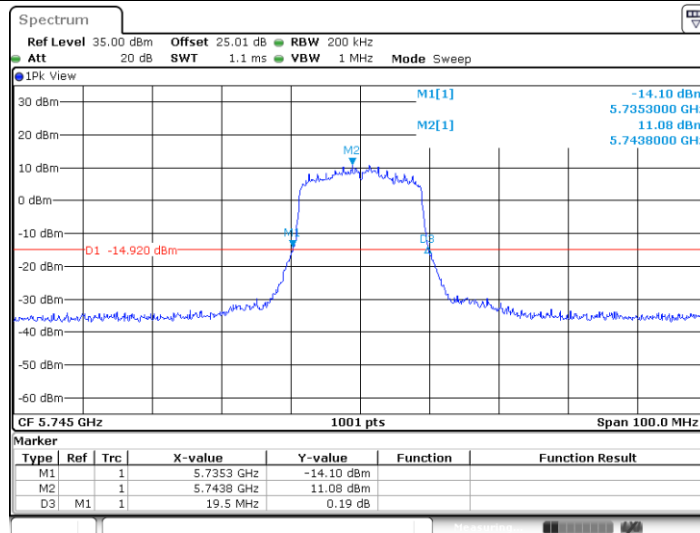


11AC20MIMO_Ant6_5745



Date: 28.SEP.2024 10:34:40

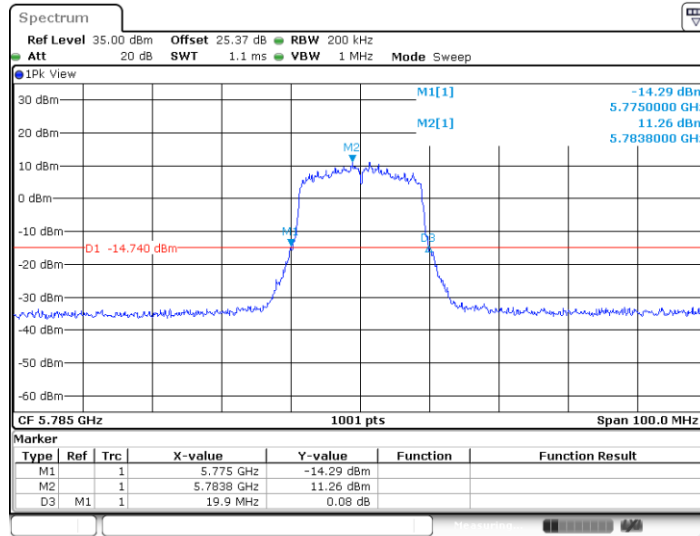
11AC20MIMO_Ant7_5745



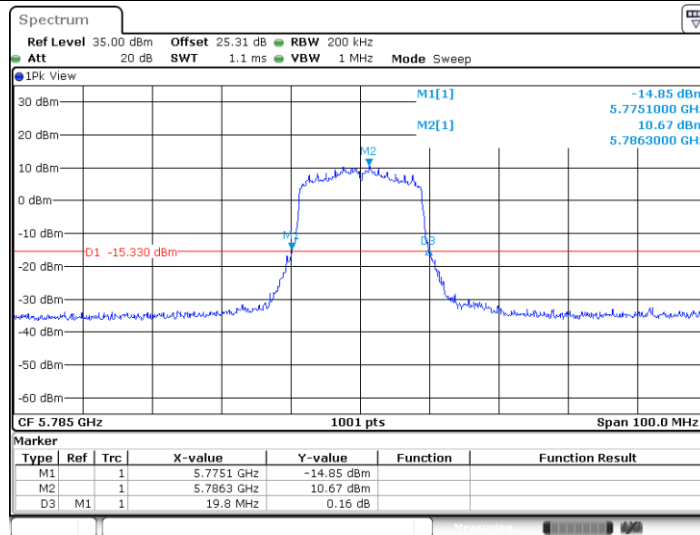
Date: 28.SEP.2024 10:35:49



11AC20MIMO_Ant6_5785

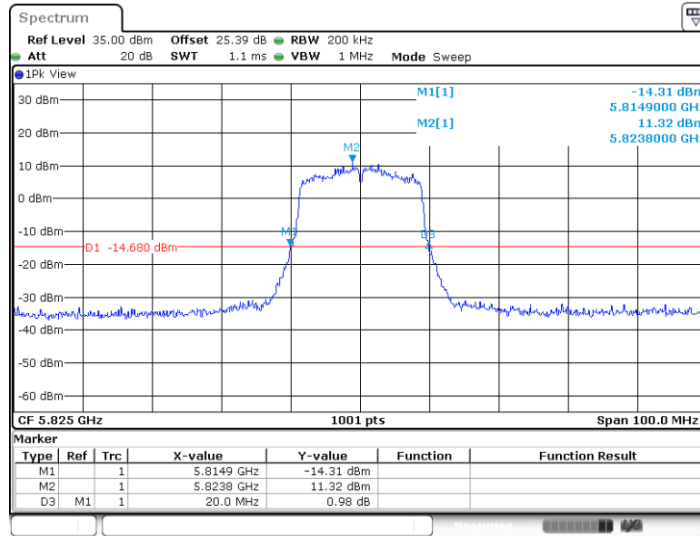


11AC20MIMO_Ant7_5785



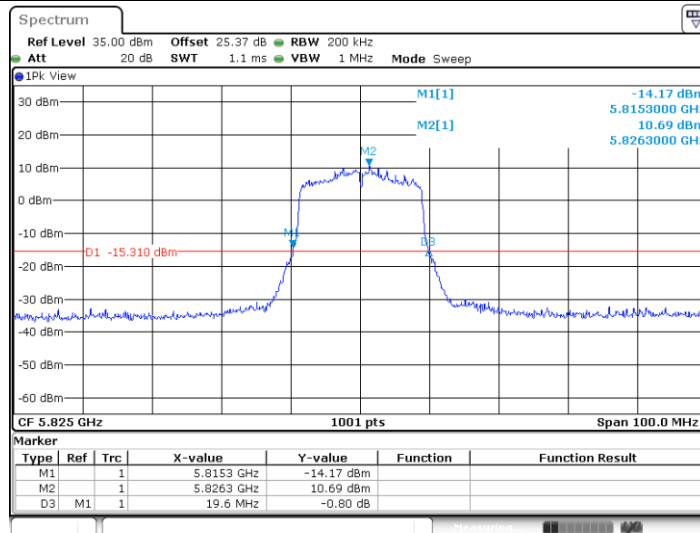


11AC20MIMO_Ant6_5825



Date: 28.SEP.2024 10:41:15

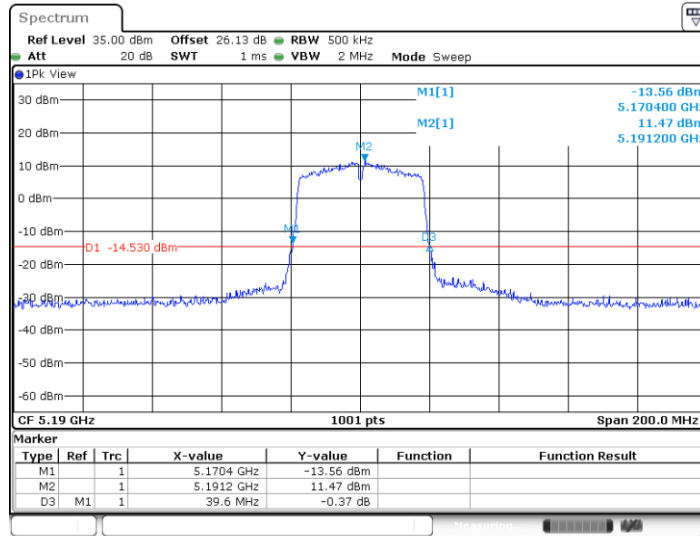
11AC20MIMO_Ant7_5825



Date: 28.SEP.2024 10:42:25

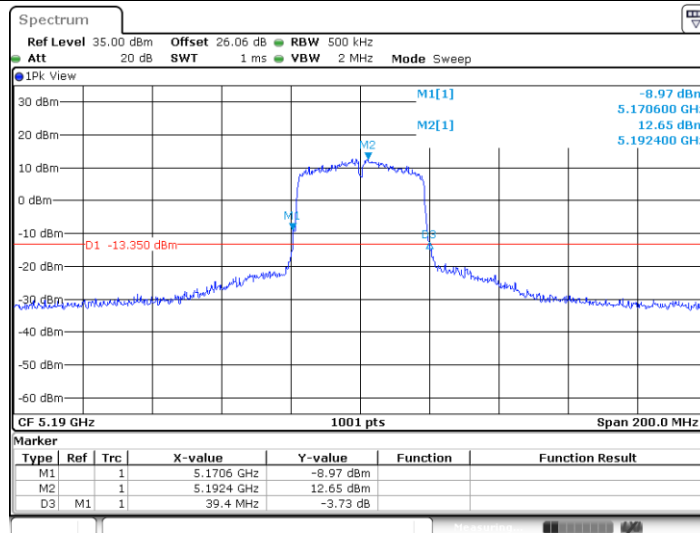


11AC40MIMO_Ant6_5190



Date: 28.SEP.2024 10:46:06

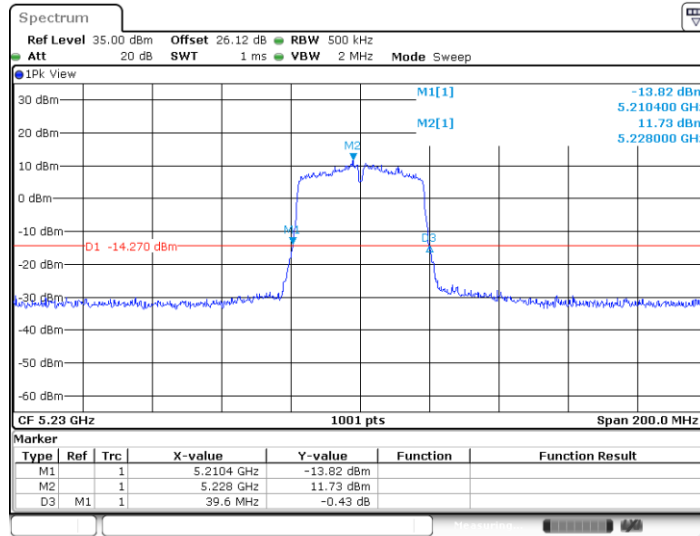
11AC40MIMO_Ant7_5190



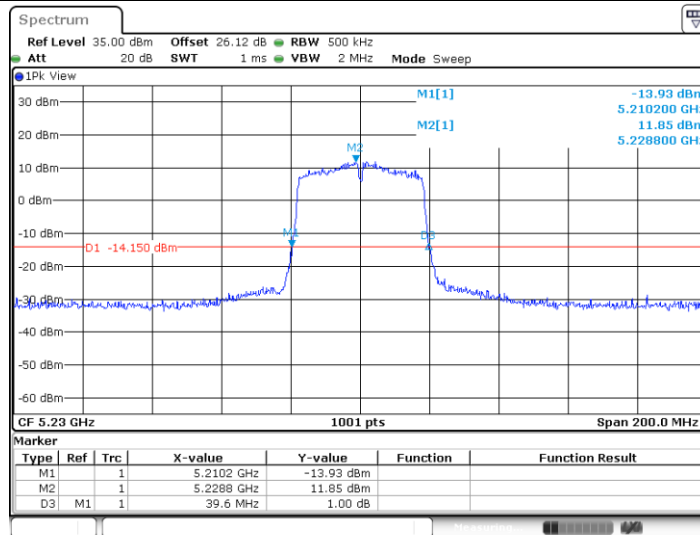
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11AC40MIMO_Ant6_5230

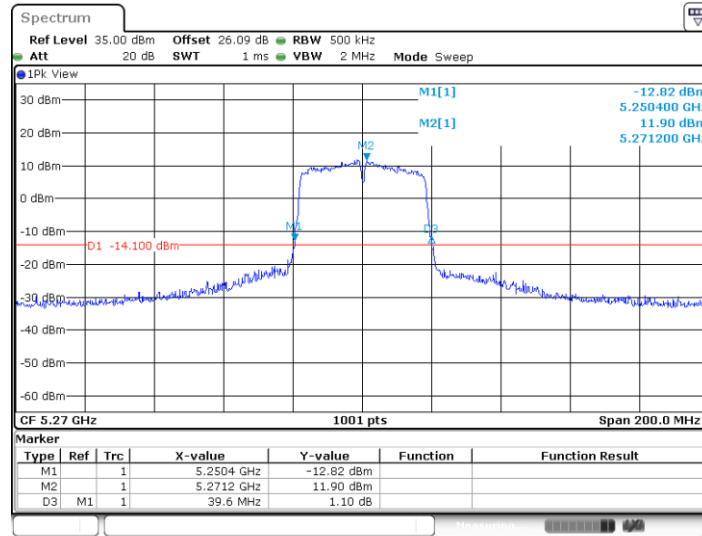


11AC40MIMO_Ant7_5230

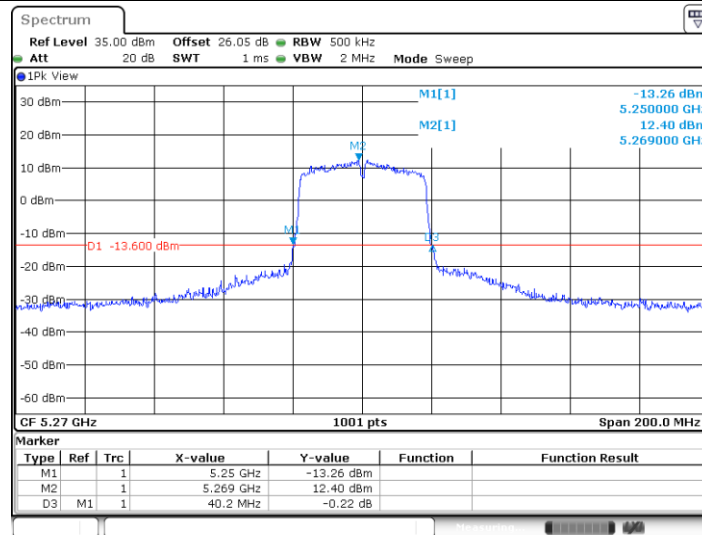




11AC40MIMO_Ant6_5270

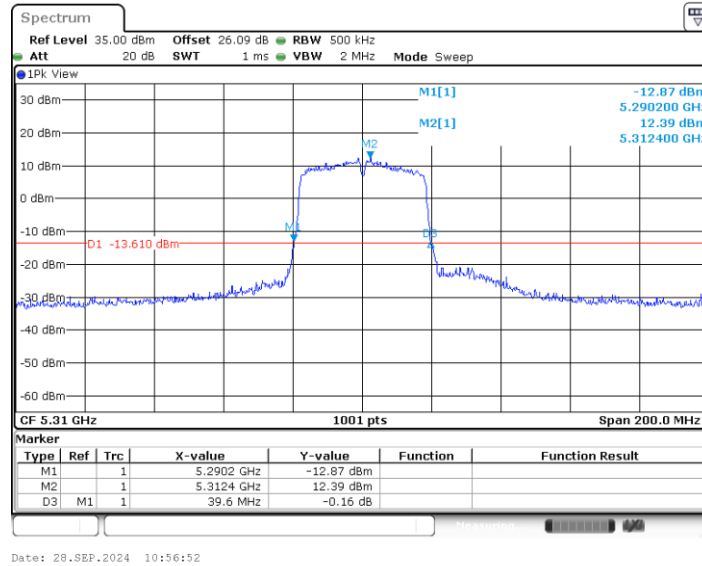


11AC40MIMO_Ant7_5270

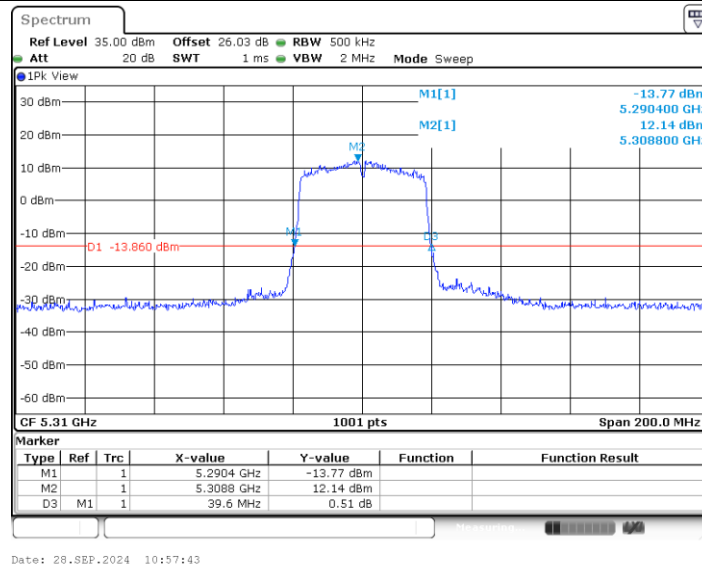




11AC40MIMO_Ant6_5310

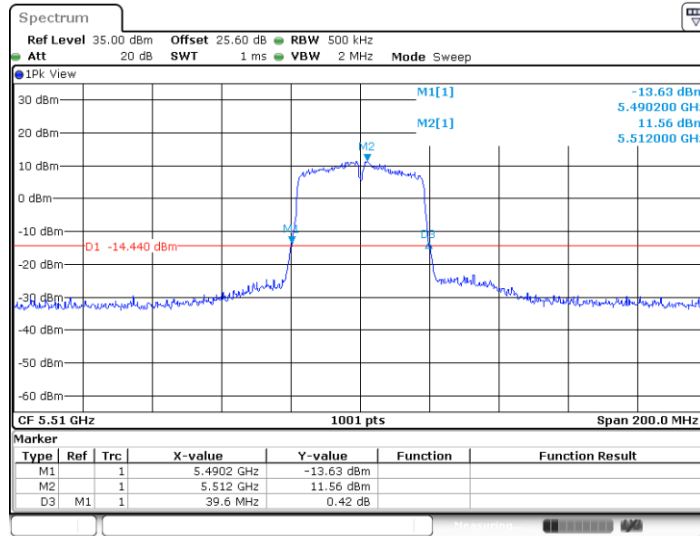


11AC40MIMO_Ant7_5310

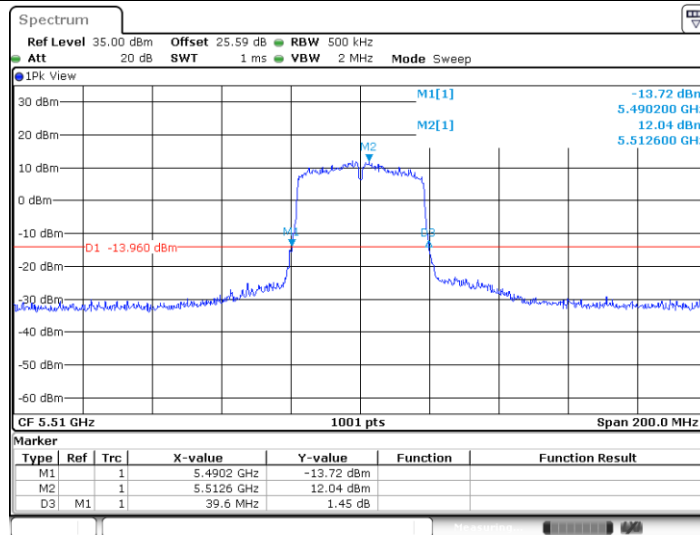




11AC40MIMO_Ant6_5510

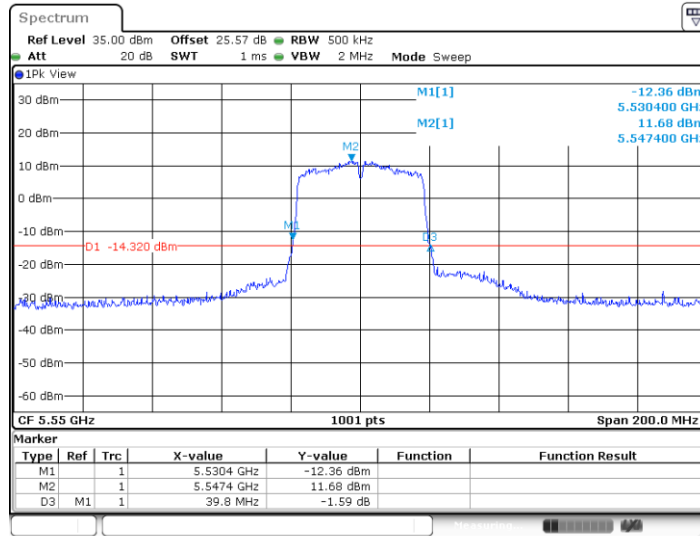


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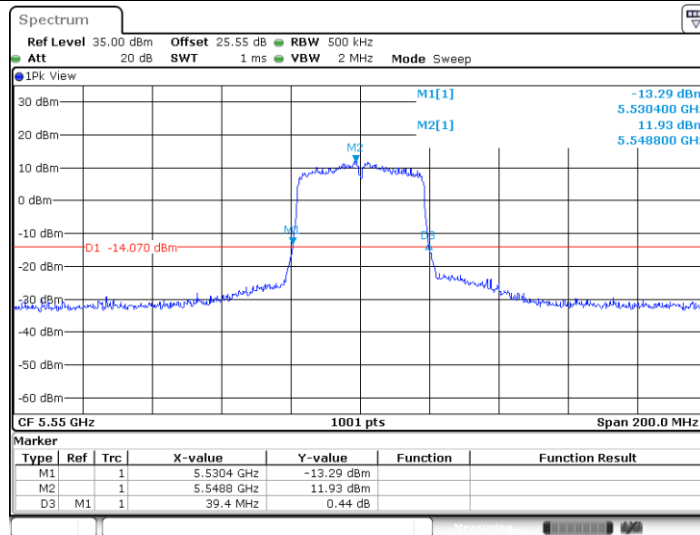




11AC40MIMO_Ant6_5550

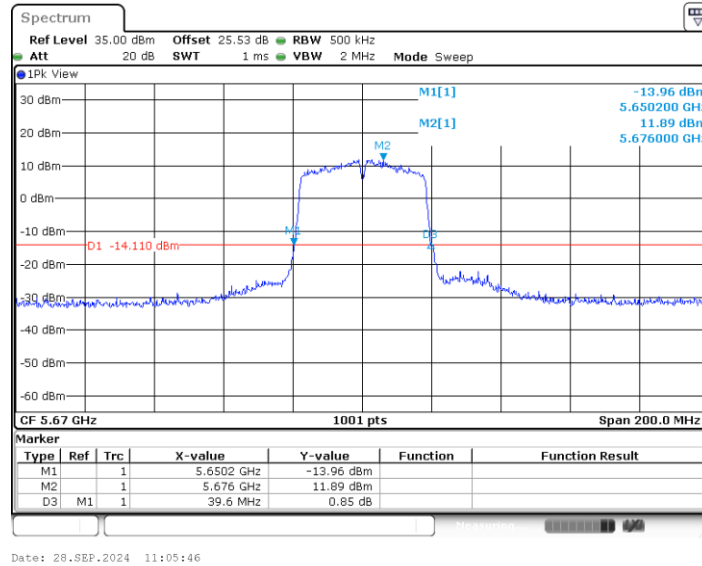


11AC40MIMO_Ant7_5550

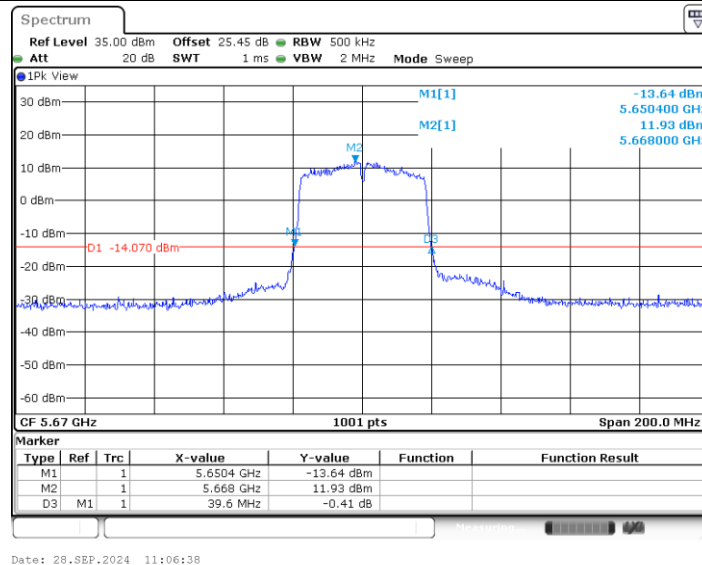




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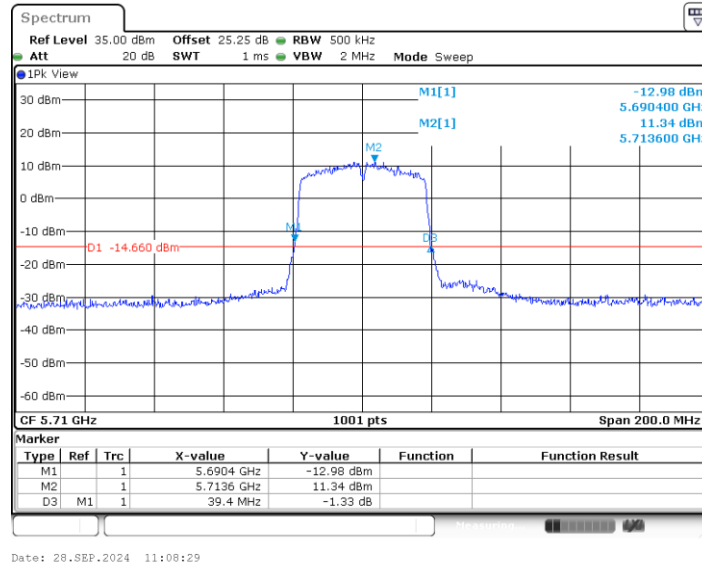


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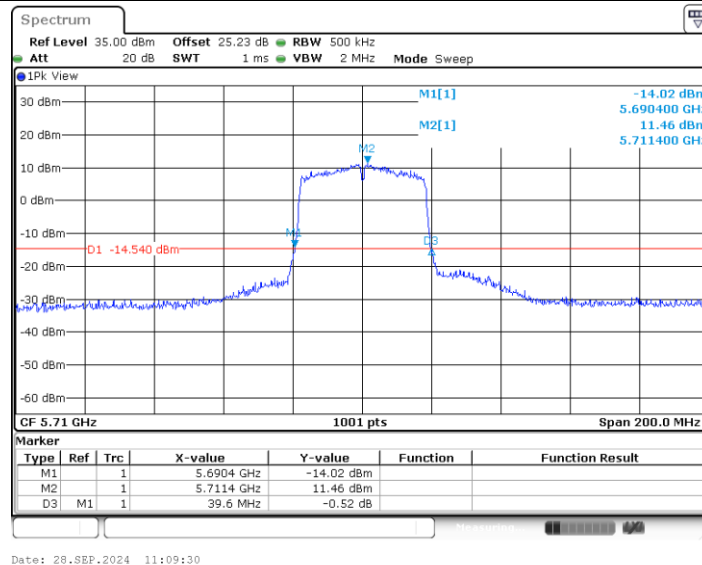




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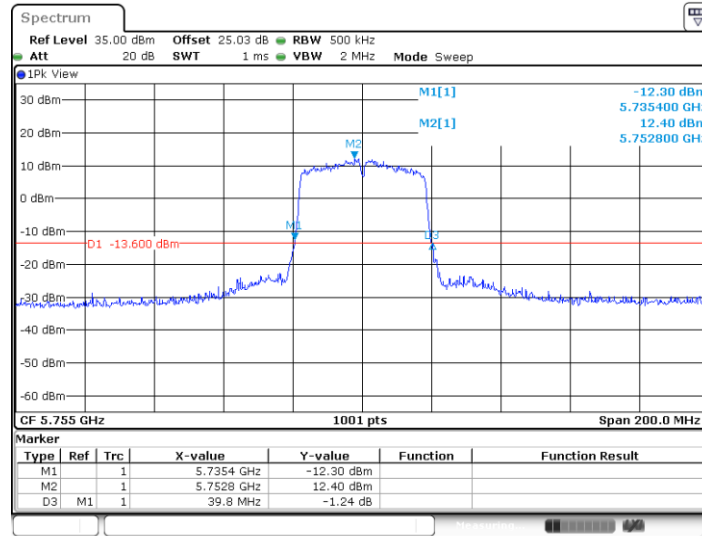


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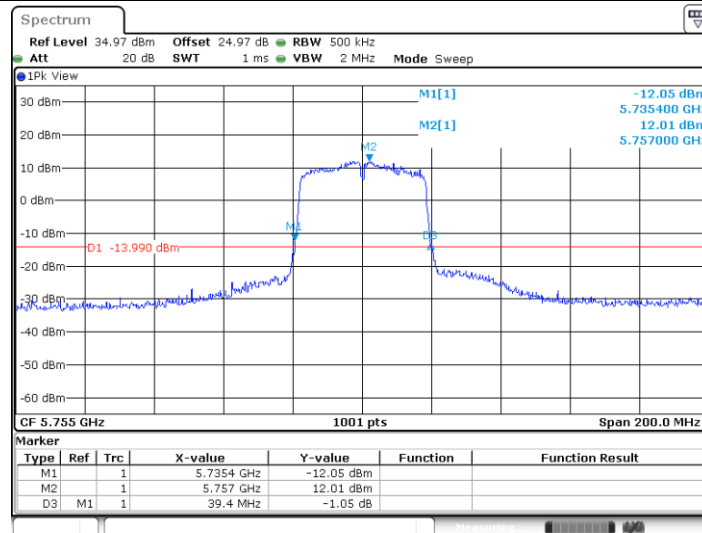


11AC40MIMO_Ant6_5755



Date: 28.SEP.2024 11:12:49

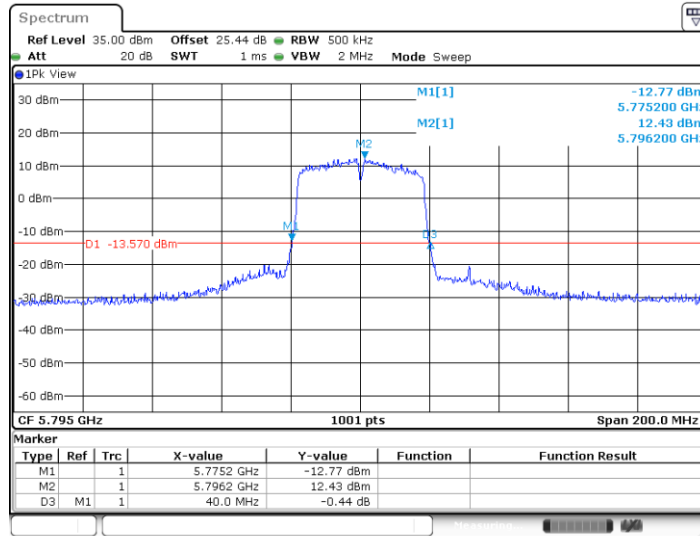
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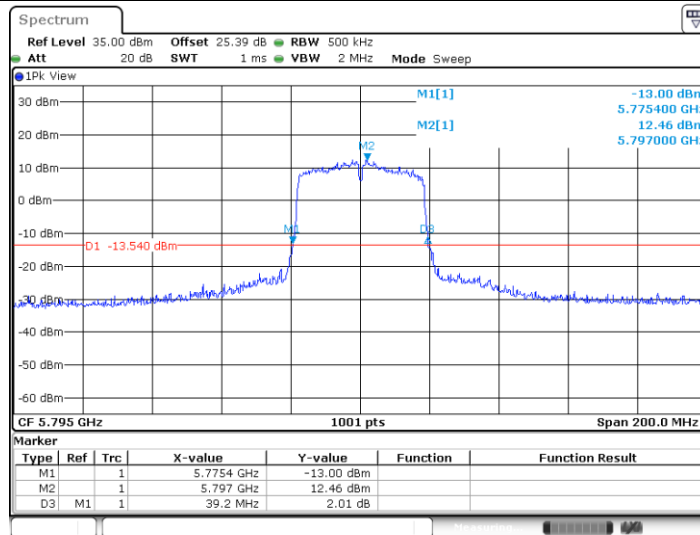
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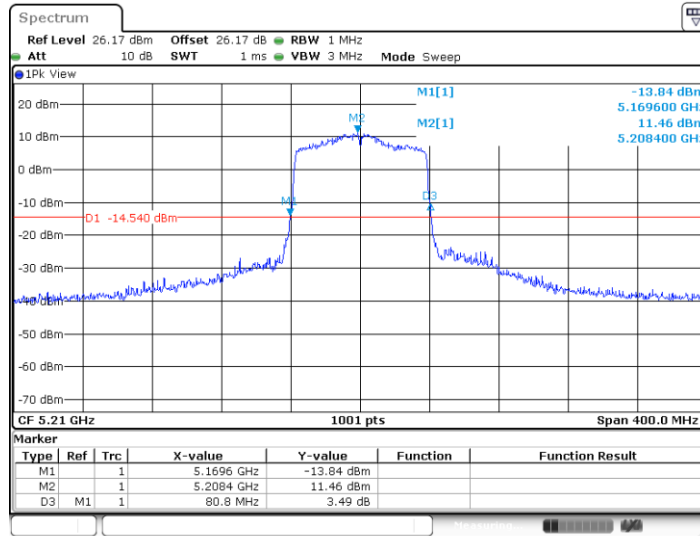


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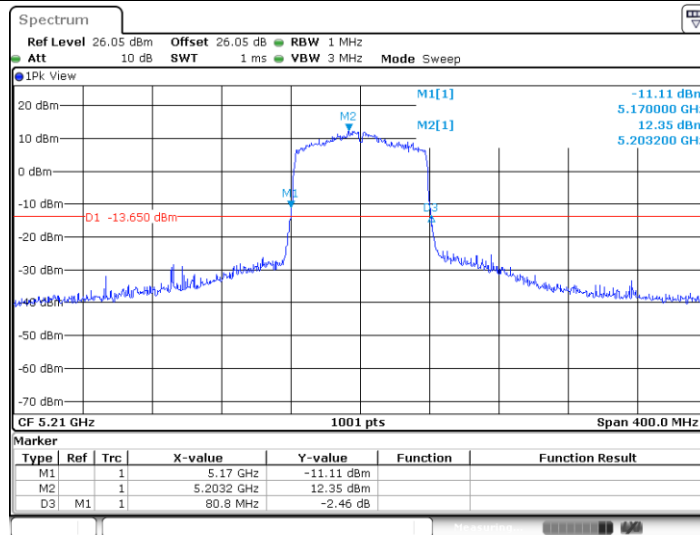




11AC80MIMO_Ant6_5210

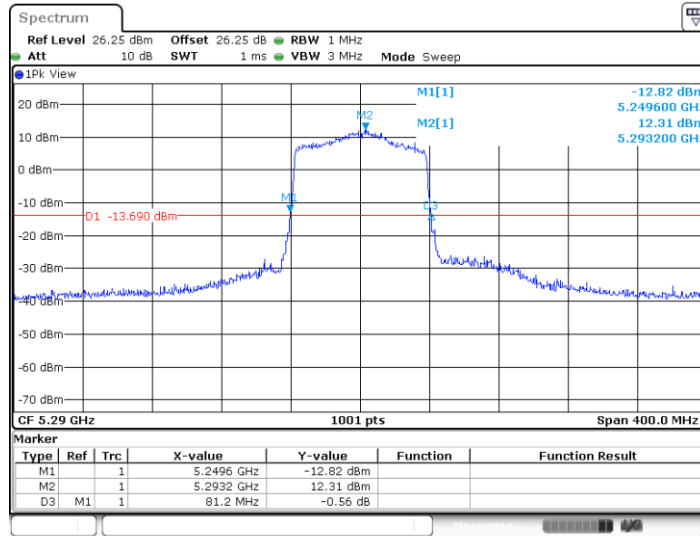


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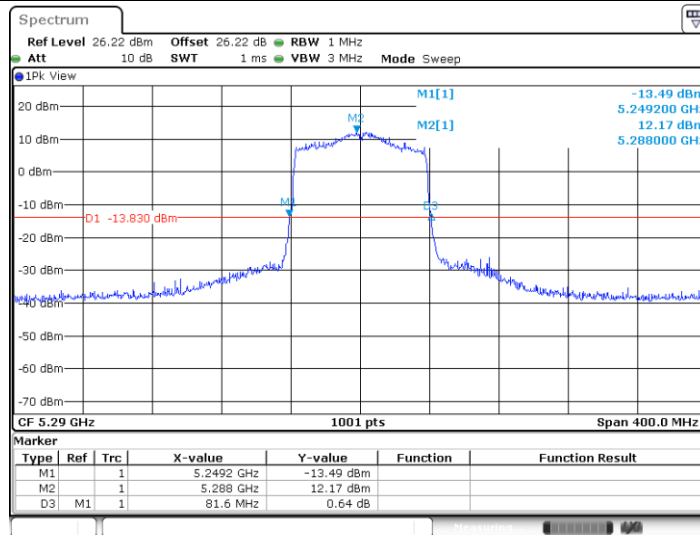




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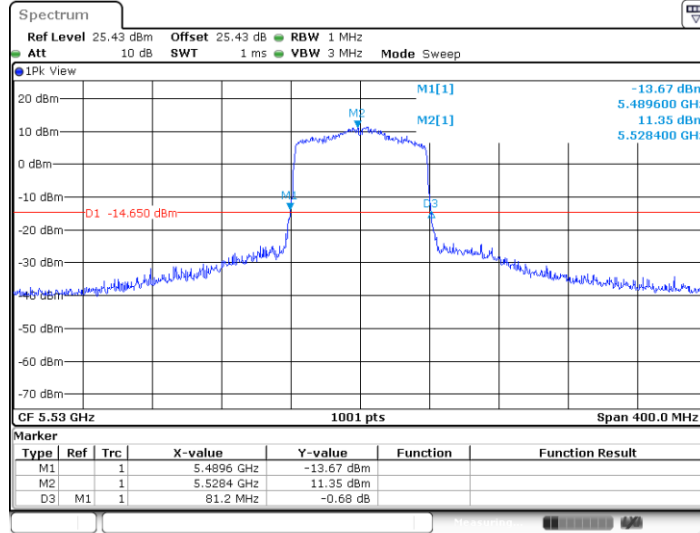


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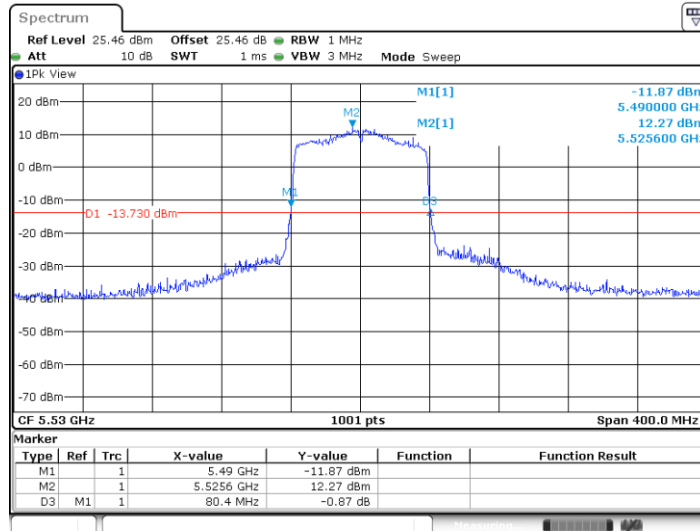


11AC80MIMO_Ant6_5530



Date: 28.SEP.2024 11:30:02

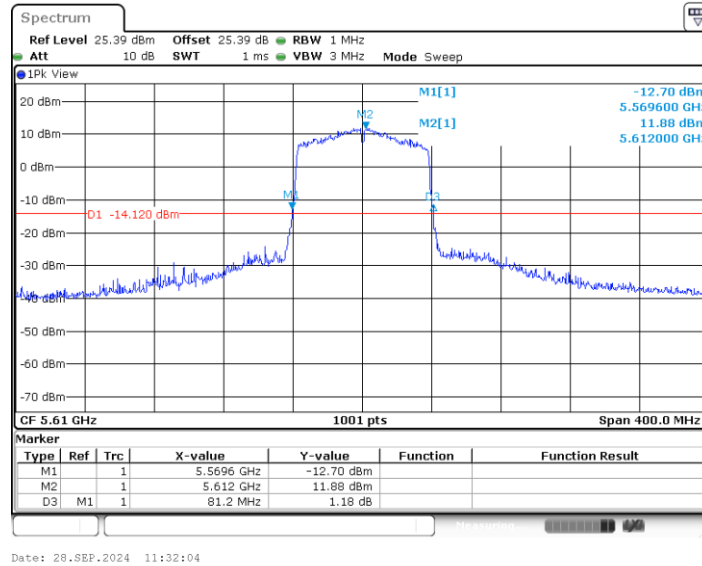
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Date: 28.SEP.2024 11:30:53



11AC80MIMO_Ant6_5610



11AC80MIMO_Ant7_5610

