TEST REPORT

Applicant Name:	Grandstream Networks, Inc.
Address:	126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number:	2401Y27848E-RF-00A
FCC ID:	YZZGWN7062E

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type:	Wi-Fi 6 Router
Model No.:	GWN7062E
Multiple Model(s) No.:	N/A
Trade Mark:	GRANDSTREAM
Date Received:	2024-10-29
Issue Date:	2025-02-05

Test Result:	Pass▲

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

Prepared and Checked By:

Ekko. Wu

Ekko Wu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked# is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2401Y27848E-RF-00A	Original Report	2025-02-05

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Frequency Range	5150-5250MHz; 5250-5350MHz; 5470-5725MHz; 5725-5850MHz;
Mode	802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/ax80/ax160
Maximum Conducted Average Output Power	5150-5250MHz: 24.60dBm; 5250-5350MHz: 21.35dBm 5470-5725MHz: 20.95dBm; 5725-5850MHz: 26.33dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification#	ANT0 (Chain 0): 3.98dBi; ANT1 (Chain 1): 4.26dBi ANT2 (Chain 2): 3.43dBi (provided by the applicant)
Voltage Range	DC 5V from Adapter
Sample serial number	2TPH-14 for Conducted and Radiated Emissions Test 2TPH-12 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter 1 Model: DCT18W050300US-A0 Input: 100-240V~50/60Hz, 0.7A max Output: 5.0V, 3.0A Adapter 2 Model: GQ24-050300-AU Input: 100-240V~50/60Hz, 1.0A Max Output: 5.0V, 3.0A Adapter 3 Model: TS-A015-050300A2 Input: 100-240V~50/60Hz, 0.6A Output: 5.0V, 3.0A, 15.0W
Note: The EUT charged by three adapters, the worst case Adapter 2 was selected to test for AC line conducted and radiated emission below 1GHz according to 2.4G Wi-Fi report test result.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and E of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And KDB789033 D02 General U-NII Test Procedures New Rules v02r01.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF Frequency		56.6Hz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Power Spectral Density		0.90dB(k=2, 95% level of confidence)
Unwanted Emission, conducted		1.60dB(k=2, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz-150kHz	3.63dB(k=2, 95% level of confidence)
	150kHz-30MHz	3.66dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1℃
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode, which was provided by manufacturer.

For 5150-5350MHz Band, 15 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	52	5260
38	5190	54	5270
40	5200	56	5280
42	5210	58	5290
44	5220	60	5300
46	5230	62	5310
48	5240	64	5320
50	5250	/	/

For 802.11a/ac20/ax20 mode: channel 36, 40, 48 were tested for 5150-5250MHz band, channel 52, 56, 64 were tested for 5250-5350MHz band
For 802.11ac40/ax40 mode: channel 38, 46 were tested for 5150-5250MHz band, channel 54, 62 were tested for 5250-5350MHz band
For 802.11ac80/ax80 mode: channel 42 was tested for 5150-5250MHz band, channel 58 was tested for 5250-5350MHz band;
For 802.11ac160/ax160 mode: channel 50 was tested

For 5470-5725MHz Band, 21 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
102	5510	126	5630
104	5520	128	5640
106	5530	132	5660
108	5540	134	5670
110	5550	136	5680
112	5560	138	5690
116	5580	140	5700
118	5590	142	5710
120	5600	144	5720
122	5610	/	/

For 802.11a/ac20/ax20 mode: channel 100, 116, 140, 144 were tested;
For 802.11ac40/ax40 mode: channel 102, 110, 134, 142 were tested;
For 802.11ac80/ax80 mode, channel 106, 122, 138 was tested.

For 5725-5850MHz Band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	157	5785
151	5755	159	5795
153	5765	161	5805
155	5775	165	5825

For 802.11a/ac20/ax20 mode: channel 149, 157, 165 were tested;
For 802.11ac40/ax40 mode: channel 151, 159 were tested;
For 802.11ac80/ax80 mode, channel 155 was tested

EUT Exercise Software

Exercise Software#	SecureCRT.exe				
5150 – 5250MHz:					
Mode	Data rate	ANT	**Power Level#**		
			Low Channel	Middle Channel	High Channel
802.11a	6Mbps	ANT0	20	20	20
		ANT1	20.5	20.5	20.5
		ANT2	20.5	20.5	20.5
802.11ac20	MCS0	ANT0/1/2	20.5	20.5	19.5
802.11ac40	MCS0	ANT0/1/2	18.5	/	18.5
802.11ac80	MCS0	ANT0/1/2	/	19	/
802.11ax20	MCS0	ANT0/1/2	19.5	19.5	19.5
802.11ax40	MCS0	ANT0/1/2	17.5	/	17.5
802.11ax80	MCS0	ANT0/1/2	/	18.5	/

5250 – 5350MHz:						
Mode	Data rate	ANT	TPC	**Power Level#**		
				Low Channel	Middle Channel	High Channel
802.11a	6Mbps	ANT0	P_H/P_L	20/13	20/13	20/13
		ANT1	P_H/P_L	20.5/13.5	20.5/13.5	20.5/13.5
		ANT2	P_H/P_L	20.5/13.5	20.5/13.5	20.5/13.5
802.11ac20	MCS0	ANT0/1/2	P_H/P_L	14/7	14/7	14/7
802.11ac40	MCS0	ANT0/1/2	P_H/P_L	16/9	/	16/9
802.11ac80	MCS0	ANT0/1/2	P_H/P_L	/	16.5/9.5	/
802.11ac160	MCS0	ANT0/1/2	P_H/P_L	/	18.5/11	/
802.11ax20	MCS0	ANT0/1/2	P_H/P_L	13/6	13/6	13/6
802.11ax40	MCS0	ANT0/1/2	P_H/P_L	15/8	/	15/8
802.11ax80	MCS0	ANT0/1/2	P_H/P_L	/	15/8	/
802.11ax160	MCS0	ANT0/1/2	P_H/P_L	/	18.5/11	/

5470 – 5725MHz:							
Mode	Data rate	ANT	TPC	**Power Level#**			
				Low Channel	Middle Channel	High Channel	Cross Channel
802.11a	6Mbps	ANT0	P_H/P_L	20.5/13.5	20.5/13.5	20.5/13.5	20.5/13.5
		ANT1	P_H/P_L	20.5/13.5	20.5/13.5	20.5/13.5	20.5/13.5
		ANT2	P_H/P_L	20.5/13.5	20.5/13.5	20.5/13.5	20.5/13.5
802.11ac20	MCS0	ANT0/1/2	P_H/P_L	14/7	14/7	14/7	14/7
802.11ac40	MCS0	ANT0/1/2	P_H/P_L	17/10	17/10	17/10	17/10
802.11ac80	MCS0	ANT0/1/2	P_H/P_L	17/10	/	17/10	17/10
802.11ac160	MCS0	ANT0/1/2	P_H/P_L	/	18/11	/	/
802.11ax20	MCS0	ANT0/1/2	P_H/P_L	14/7	14/7	14/7	14/7
802.11ax40	MCS0	ANT0/1/2	P_H/P_L	16/9	16/9	16/9	16/9
802.11ax80	MCS0	ANT0/1/2	P_H/P_L	16/9	/	16/9	16/9
802.11ax160	MCS0	ANT0/1/2	P_H/P_L	/	18/11	/	/

5725 – 5850MHz:					
Mode	Data rate	ANT	**Power Level#**		
			Low Channel	Middle Channel	High Channel
802.11a	6Mbps	ANT0	20.5	20.5	20.5
		ANT1	20.5	20.5	20.5
		ANT2	20.5	20.5	20.5
802.11ac20	MCS0	ANT0/1/2	20.5	20.5	20.5
802.11ac40	MCS0	ANT0/1/2	20.5	/	20.5
802.11ac80	MCS0	ANT0/1/2	/	20.5	/
802.11ax20	MCS0	ANT0/1/2	20.5	20.5	20.5
802.11ax40	MCS0	ANT0/1/2	20.5	/	20.5
802.11ax80	MCS0	ANT0/1/2	/	20.5	/

Note:
1. The worst-case data rates are determined to be as follows for each mode based upon inverstigation by measuring the average power, power and PSD across all data rates bandwidths, and modulations.
2. For 802.11a mode, the device supports SISO only.
3. For 802.11n/ac/ax mode, the device support SISO and MIMO, the MIMO mode support beamforming, the SISO/MIMO and beamforming/nonbeamforming modes have same parameter, which was declared by applicant. The MIMO/beamforming was the worst mode which was selected to test.
4. The n20/n40 mode was reduced test as identical parameter with ac20/ac40 mode.
5. For 802.11ax modes, the device not support partial RU mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

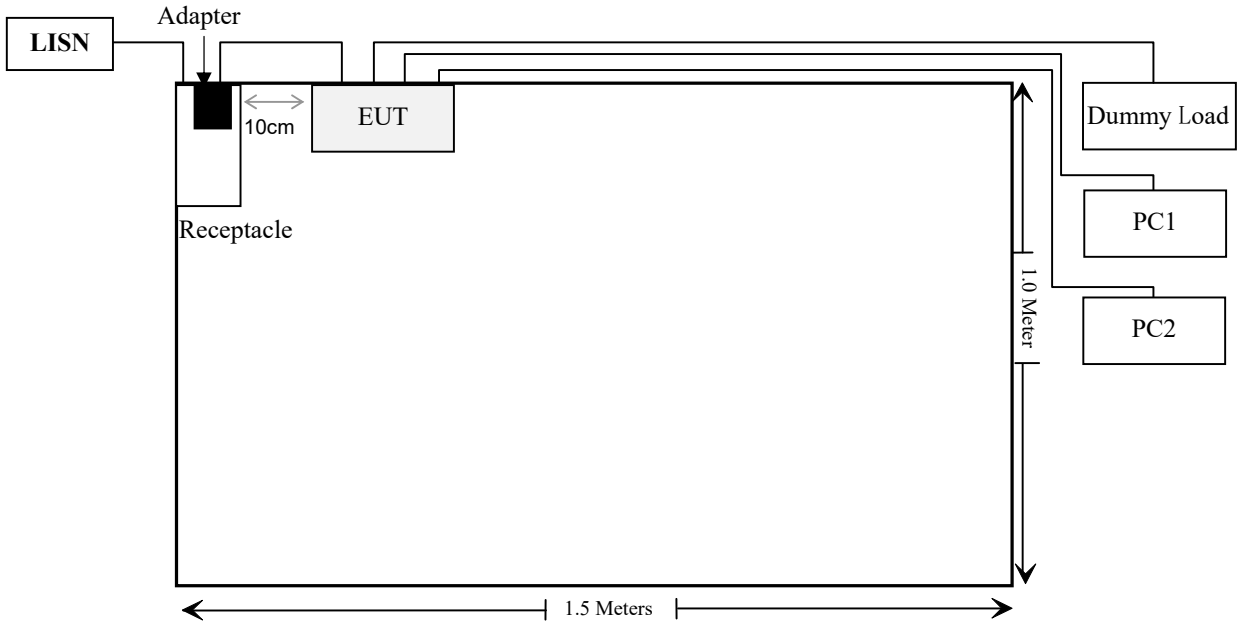
Manufacturer	Description	Model	Serial Number
DELL	PC1	Latitude E6520	DL0ZCS1
GREATWALL	PC2	NF50AL	Unknown
TP-link	Dummy load	Unknown	Unknown

External I/O Cable

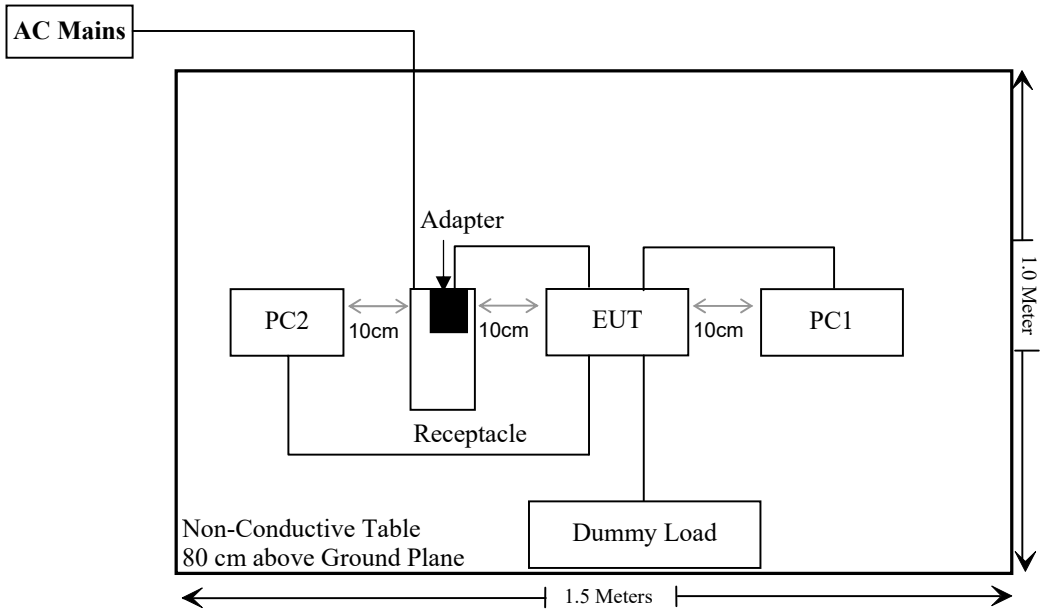
Cable Description	Length (m)	From Port	To
Unshielded Un-detachable AC cable	1.5	Receptacle	LISN/AC Mains
Unshielded Un-detachable DC cable	1.2	EUT	Adapter
Unshielded Detachable RJ45 cable	2.0	EUT	PC1
Unshielded Detachable RJ45 cable	2.0	EUT	PC2
Unshielded Detachable RJ45 cable	2.0	EUT	Dummy Load
Unshielded Detachable RJ45 cable	0.2	EUT	Dummy Load

Block Diagram of Test Setup

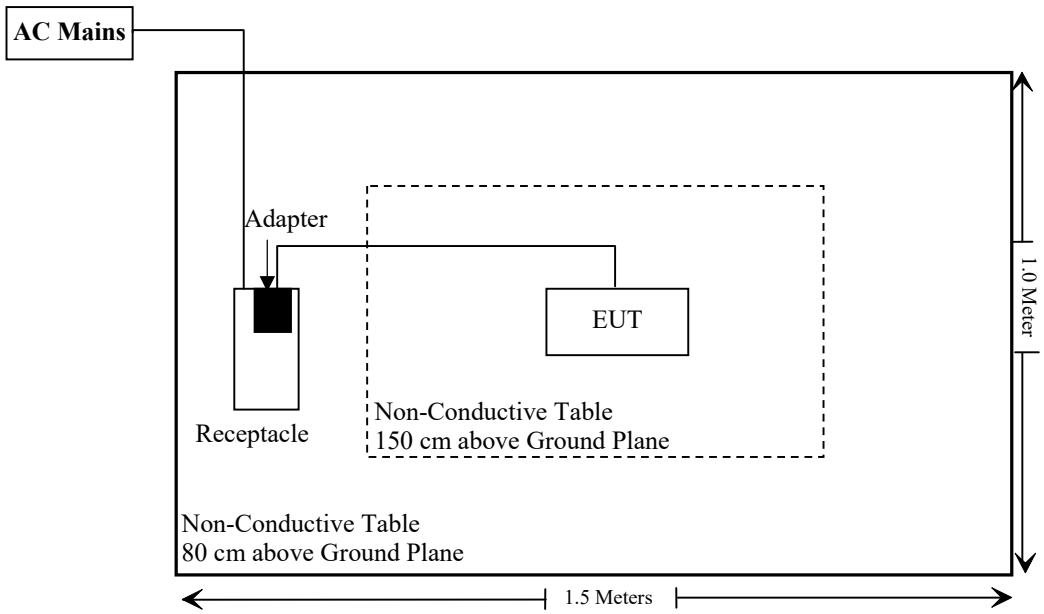
For Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, 15.407 (b)	Undesirable Emission& Restricted Bands	Compliant
FCC§15.407(a)(e)	Emission Bandwidth	Compliant
FCC§15.407(a)(e)	99% Occupied Bandwidth	Compliant
FCC§15.407(a)	Maximum Conducted Output Power	Compliant
FCC§15.407(a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Compliant
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*
C63.10 §11.6	Duty Cycle	/
FCC §1.1310&§2.1091	Maximum Permissible Exposure (MPE)	Compliant

Compliant*: Please refer to the DFS report 2401Y27848E-RFB.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2024/12/04	2025/12/03
Rohde & Schwarz	LISN	ENV216	101613	2024/12/04	2025/12/03
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2024/05/21	2025/05/20
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2024/05/21	2025/05/20
Audix	EMI Test software	E3	191218(V9)	NCR	NCR
Radiated Emission Test_ Below 1GHz					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310N	186238	2024/05/21	2025/05/20
Unknown	Cable	XH500C	J-10M-A	2024/06/18	2025/06/17
Unknown	Cable	Chamber Cable 1	F-03-EM236	2024/06/18	2025/06/17
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	PNG214	1354	2024/05/21	2025/05/20
Unknown	Cable	2Y194	0735	2024/05/21	2025/05/20
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
Radiated Emission Test_ Above 1GHz					
Rohde&Schwarz	Spectrum Analyzer	FSV40	101605	2024/03/27	2025/03/26
COM-POWER	Pre-amplifier	PA-122	181919	2024/06/18	2025/06/17
Schwarzbeck	Horn Antenna	BBHA9120D(1201)	1143	2023/07/26	2026/07/25
Unknown	RF Cable	KMSE	0735	2024/06/18	2025/06/17
Unknown	RF Cable	UFA147	219661	2024/06/18	2025/06/17
Unknown	RF Cable	XH750A-N	J-10M	2024/06/18	2025/06/17
JD	Multiplex Switch Test Control Set	DT7220FSU	DQ77926	2024/06/18	2025/06/17
A.H.System	Pre-amplifier	PAM-1840VH	190	2024/06/18	2025/06/17
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
UTIFLEX	RF Cable	NO. 13	232308-001	2024/06/18	2025/06/17
Audix	EMI Test software	E3	191218(V9)	NCR	NCR

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF Conducted Test					
Rohde&Schwarz	Spectrum Analyzer	FSV40-N	102259	2024/12/04	2025/12/03
ANRITSU	Microwave peak power sensor	MA24418A	12622	2024/05/21	2025/05/20
MARCONI	10dB Attenuator	6534/3	2942	2024/06/27	2025/06/26

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

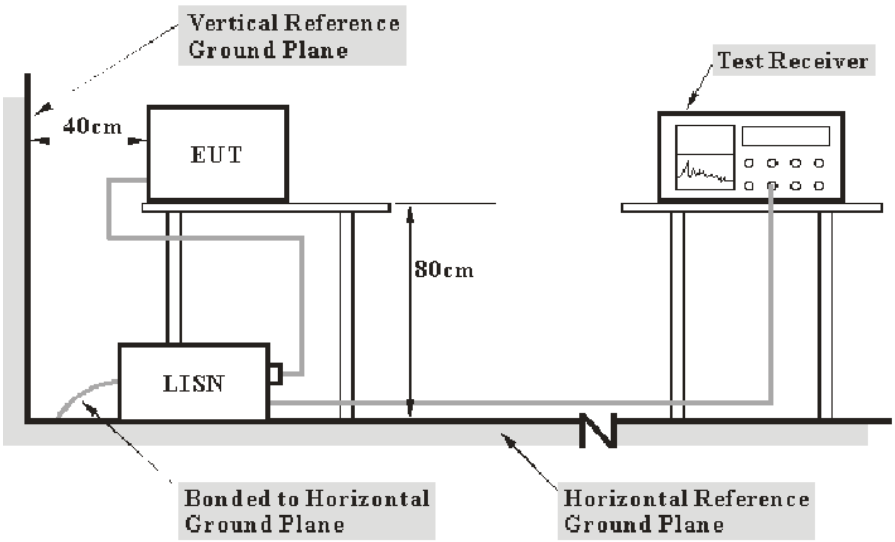
REQUIREMENTS AND TEST PROCEDURES

Conducted Emissions

Applicable Standard

FCC §15.207

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and Average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

Factor = LISN VDF + Cable Loss

The "**Over limit**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit
Level = Read Level + Factor

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Undesirable Emission

Applicable Standard

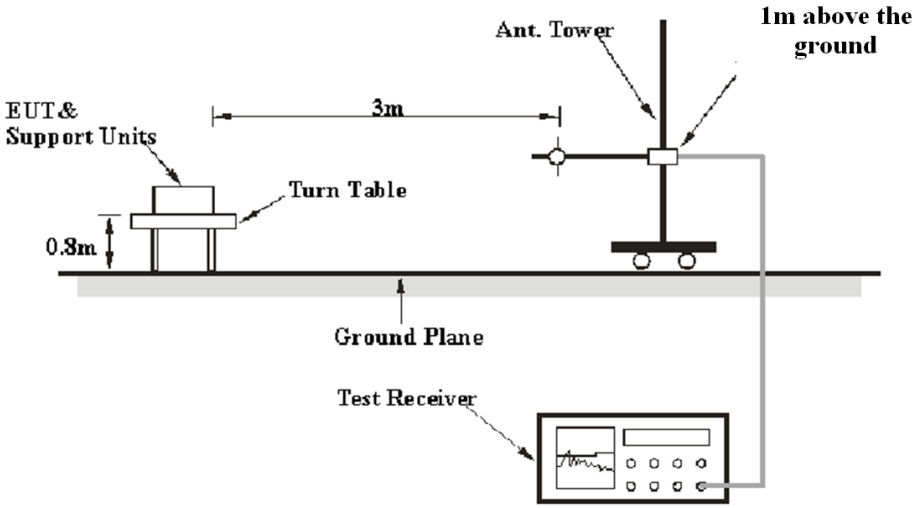
FCC §15.407 (b); §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
(4) For transmitters operating in the 5.725-5.85 GHz band:
(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.

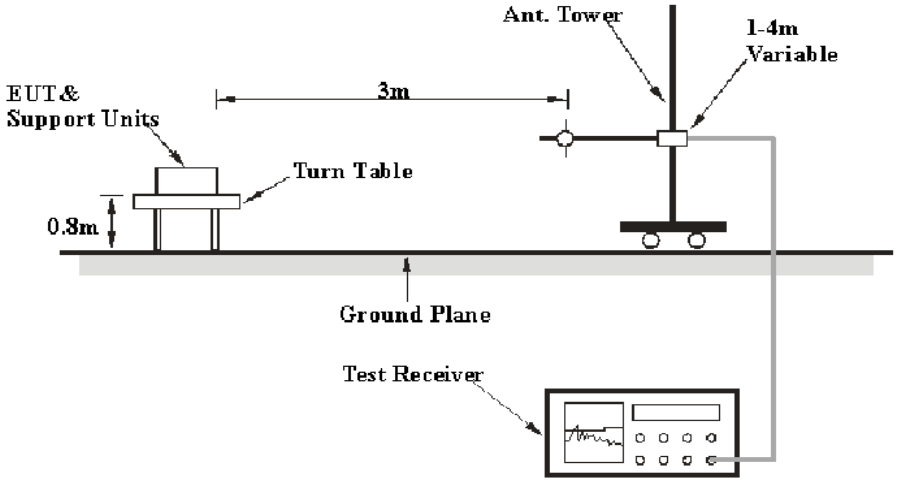
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

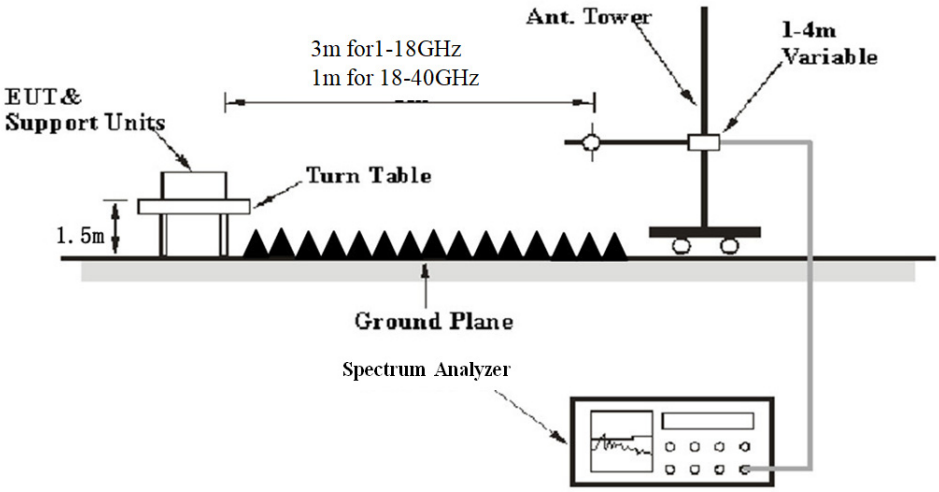
9 kHz-30MHz:



30MHz-1GHz:



Above 1 GHz:



The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC 15.209 and FCC 15.407 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9 kHz-1GHz:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
9 kHz – 150 kHz	/	/	200 Hz	QP
	300 Hz	1 kHz	/	PK
150 kHz – 30 MHz	/	/	9 kHz	QP
	10 kHz	30 kHz	/	PK
30 MHz – 1000 MHz	/	/	120 kHz	QP
	100 kHz	300 kHz	/	PK

1-40GHz:

Pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	5 kHz
	<98%	1MHz	≥1/Ton

Final measurement for emission identified during pre-scan

Measurement	Duty cycle	RBW	Video B/W
PK	Any	1MHz	3 MHz
AV	>98%	1MHz	10 Hz
	<98%	1MHz	≥1/Ton

Note: Ton is minimum transmission duration

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform an QP/Average measurement.

Test Procedure

Radiated Spurious Emission

During the radiated emission test, the adapter was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all the installation combinations.

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

According to ANSI C63.10-2013,9.4: For field strength measurements made at other than the distance at which the applicable limit is specified, extrapolate the measured field strength to the field strength at the distance specified by the limit using an inverse distance correction factor (20 dB/decade of distance). In some cases, a different distance correction factor may be required;

$$E_{\mathrm{SpecLimit}} = E_{\mathrm{Meas}} + 20\log\left(\frac{d_{\mathrm{Meas}}}{d_{\mathrm{SpecLimit}}}\right)$$

where

$E_{\mathrm{SpecLimit}}$	is the field strength of the emission at the distance specified by the limit, in dBμV/m
E_{Meas}	is the field strength of the emission at the measurement distance, in dBμV/m
d_{Meas}	is the measurement distance, in m
$d_{\mathrm{SpecLimit}}$	is the distance specified by the limit, in m

So the extrapolation factor of 1m is 20*log(1/3)= -9.5 dB, for 18-40GHz range, the limit of 1m distance was added by 9.5dB from limit of 3m to compared with the result measurement at 1m distance.

Factor & Over Limit/Margin Calculation

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "**Over Limit/Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit; Margin = Limit–Corrected Amplitude
Level / Corrected Amplitude = Read Level + Factor

26 dB & 6dB Emission Bandwidth

Applicable Standard

The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Within the 5.725-5.850 GHz, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

According to KDB789033 D02 section II.C and section II.D

1. Emission Bandwidth (EBW)
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum 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%.

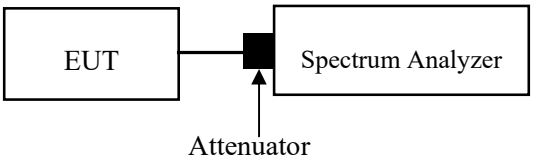
2. Minimum Emission Bandwidth for the band 5.725-5.85 GHz
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.725-5.85 GHz. The following procedure shall be used for measuring this bandwidth:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3. 99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:
a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.

c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
d) Step a) through step c) might require iteration to adjust within the specified range.
e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Conducted Transmitter Output Power

Applicable Standard

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 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 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

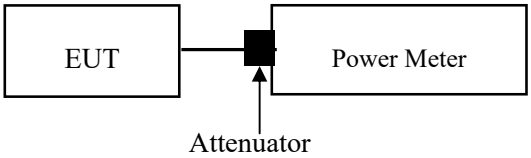
Transmit power control (TPC). U-NII devices operating in the 5.25-5.35 GHz band and the 5.47-5.725 GHz band shall employ a TPC mechanism. The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm. A TPC mechanism is not required for systems with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

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method PM-G should be applied

a. Place the EUT on a bench and set it in transmitting mode.
b. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.



Note: A short RF cable with low cable loss connected to the EUT antenna port,which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Power Spectral Density

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 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 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle ≥98%

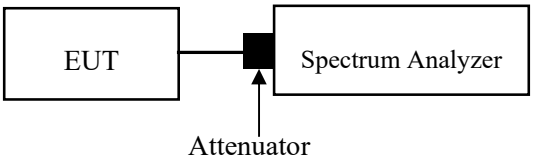
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than ±2%

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed ±2%

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.



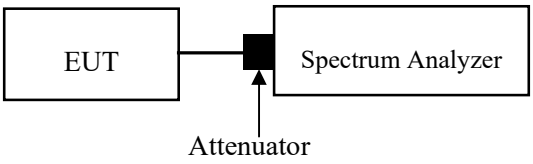
Note: A short RF cable with low cable loss connected to the EUT antenna port,which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Duty Cycle

Test Procedure

According to ANSI C63.10-2013 Section 12.2

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ RBW. Set detector = peak or average.
4) The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T ≤ 16.7 μs.)



ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, 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.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has three internal antennas arrangement, which were permanently attached, the antenna gain# is 3.98dBi for ANT0, 4.26dBi for ANT1 and 3.43dBi for ANT2, fulfill the requirement of this section. Please refer to the EUT photos.

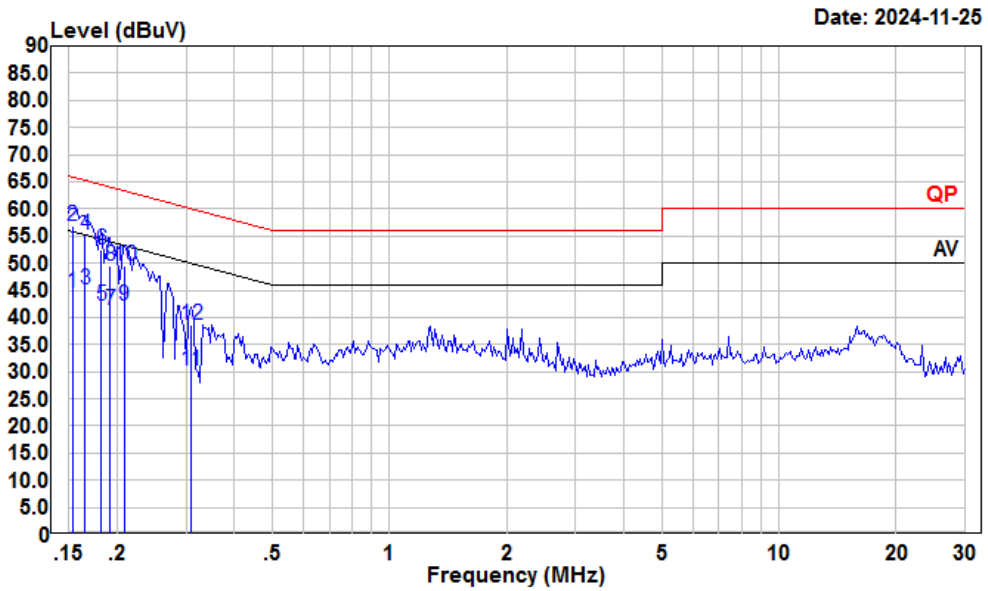
Result: Compliant

TEST DATA AND RESULTS

Conducted Emissions

Temperature (°C)	25	**Relative Humidity (%)**	67
ATM Pressure (kPa)	101	**Test engineer**	Macy Shi
Test date	2024/11/25		
EUT operation mode	Transmitting (Maximum output power mode, 802.11ax40 5795MHz)		

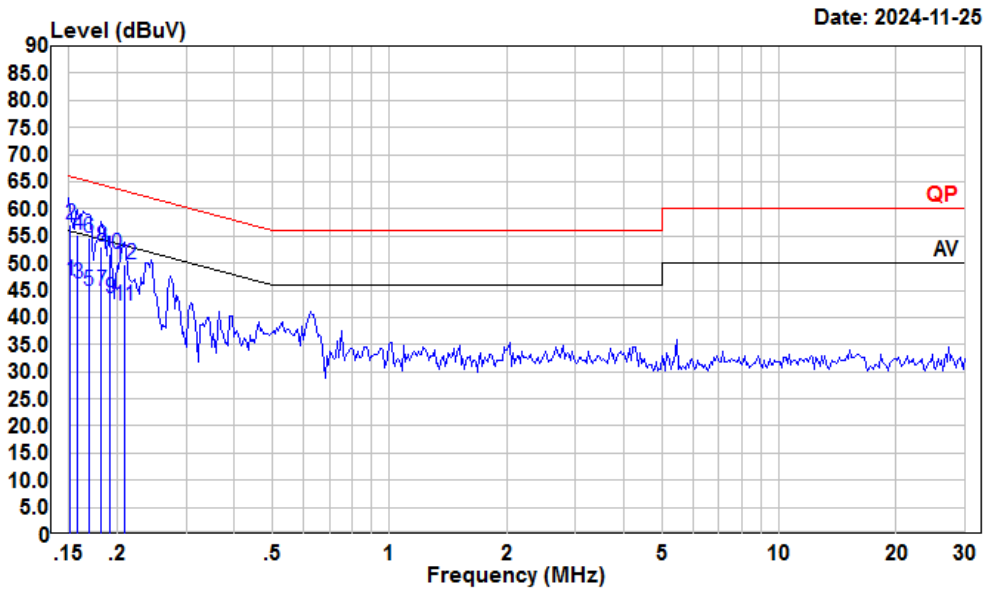
AC120V 60 Hz, Line



Condition: Line
Project : 2401Y27848E-RF
tester : Macy.shi
Note : Transmitting
Condition: RBW:9KHz VBW:Auto SWT:Auto

	Freq	Read Level	LISN Level	Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.153	23.61	44.63	10.89	10.13	55.82	-11.19	Average
2	0.153	35.79	56.81	10.89	10.13	65.82	-9.01	QP
3	0.165	24.09	45.07	10.87	10.11	55.21	-10.14	Average
4	0.165	34.29	55.27	10.87	10.11	65.21	-9.94	QP
5	0.182	21.10	42.03	10.83	10.10	54.42	-12.39	Average
6	0.182	31.60	52.53	10.83	10.10	64.42	-11.89	QP
7	0.191	20.50	41.41	10.82	10.09	53.98	-12.57	Average
8	0.191	28.50	49.41	10.82	10.09	63.98	-14.57	QP
9	0.208	21.19	42.07	10.79	10.09	53.27	-11.20	Average
10	0.208	28.63	49.51	10.79	10.09	63.27	-13.76	QP
11	0.308	9.50	30.27	10.66	10.11	50.02	-19.75	Average
12	0.308	17.88	38.65	10.66	10.11	60.02	-21.37	QP

AC120V 60 Hz, Neutral



Condition: Neutral
Project : 2401Y27848E-RF
tester : Macy.shi
Note : Transmitting
Condition: RBW:9KHz VBW:Auto SWT:Auto

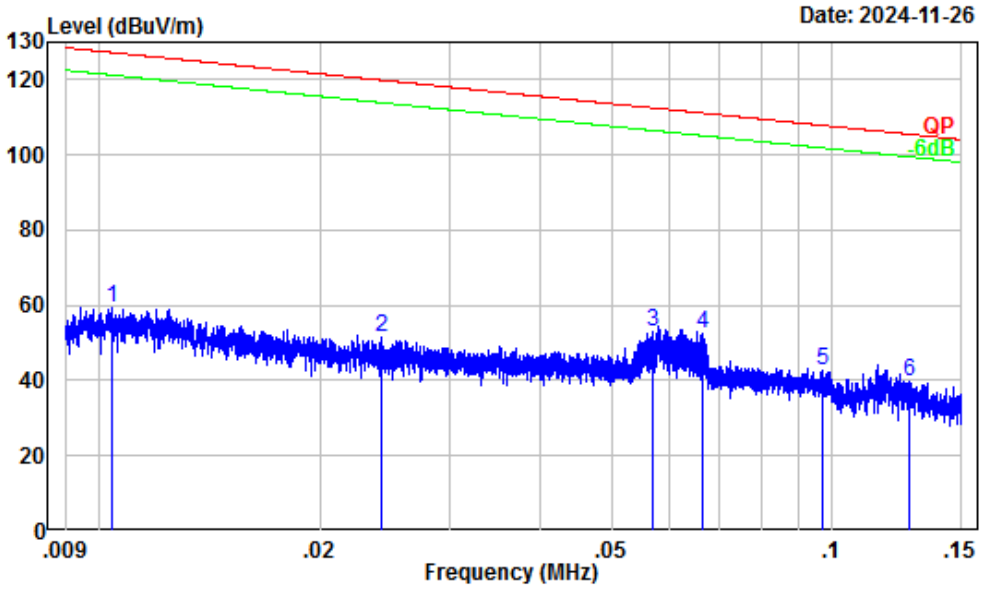
	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.152	26.06	46.78	10.59	10.13	55.91	-9.13	Average
2	0.152	36.35	57.07	10.59	10.13	65.91	-8.84	QP
3	0.158	25.50	46.18	10.56	10.12	55.56	-9.38	Average
4	0.158	34.60	55.28	10.56	10.12	65.56	-10.28	QP
5	0.169	24.20	44.82	10.52	10.10	55.03	-10.21	Average
6	0.169	34.10	54.72	10.52	10.10	65.03	-10.31	QP
7	0.182	24.39	44.96	10.47	10.10	54.42	-9.46	Average
8	0.182	32.59	53.16	10.47	10.10	64.42	-11.26	QP
9	0.191	22.90	43.42	10.43	10.09	53.98	-10.56	Average
10	0.191	31.20	51.72	10.43	10.09	63.98	-12.26	QP
11	0.208	21.53	42.03	10.41	10.09	53.27	-11.24	Average
12	0.208	29.29	49.79	10.41	10.09	63.27	-13.48	QP

Undesirable Emission

Temperature (°C)	24&24.5	**Relative Humidity (%)**	54~58
ATM Pressure (kPa):	101&101.2	**Test engineer:**	Carl Zhu & Dylan Yang
Test date:	Below 1GHz: 2024/11/26 Above 1GHz: 2024/12/18~2025/01/15		
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, 802.11ax40 5795MHz) Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. For the radiated spurious emission below 30MHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. 3. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded.		

Below 1GHz:

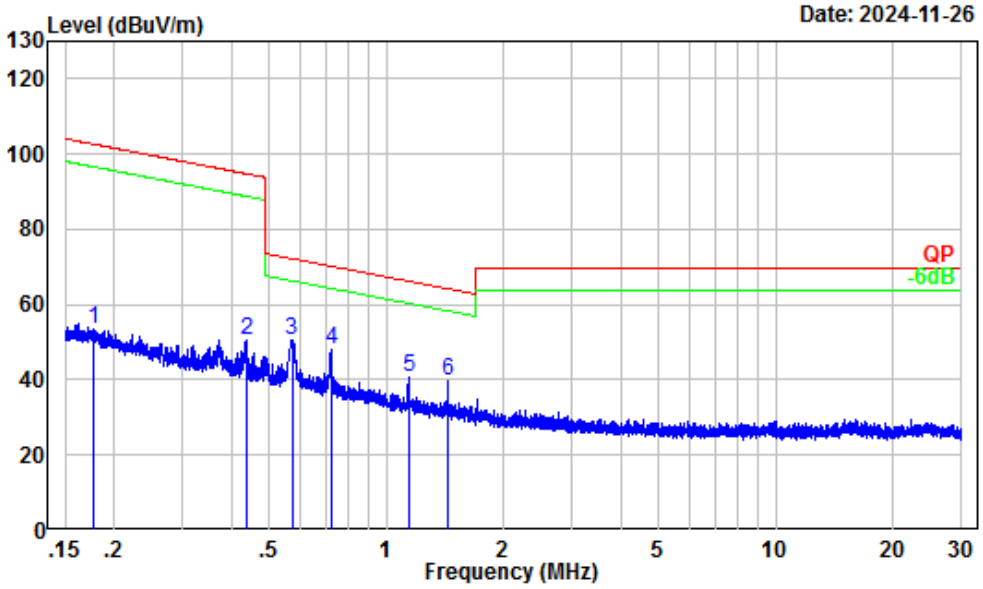
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2401Y27848E-RF
Test Mode : Transmitting
Detector Peak RBW: 0.3KHz VBW:1KHz
Tester : Carl Zhu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	32.22	27.00	59.22	127.26	-68.04	Peak
2	0.02	29.58	21.69	51.27	119.89	-68.62	Peak
3	0.06	25.70	27.41	53.11	112.48	-59.37	Peak
4	0.07	24.76	27.97	52.73	111.16	-58.43	Peak
5	0.10	22.22	20.30	42.52	107.89	-65.37	Peak
6	0.13	20.37	19.19	39.56	105.49	-65.93	Peak

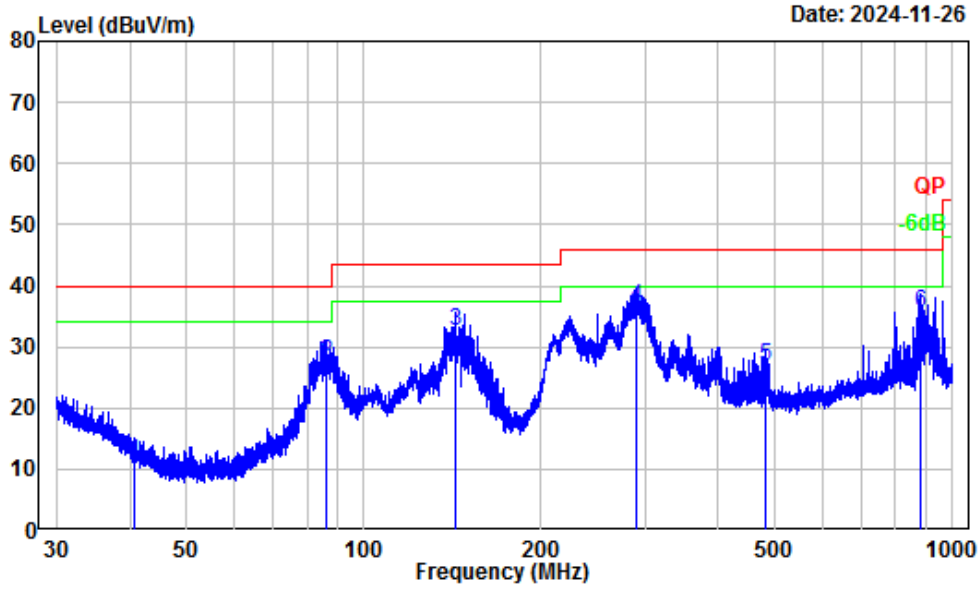
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2401Y27848E-RF
Test Mode : Transmitting
Detector Peak RBW: 10KHz VBW:30KHz
Tester : Carl Zhu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.18	17.41	35.88	53.29	102.61	-49.32	Peak
2	0.44	7.61	42.72	50.33	94.81	-44.48	Peak
3	0.57	5.50	45.07	50.57	72.42	-21.85	Peak
4	0.72	3.67	44.64	48.31	70.37	-22.06	Peak
5	1.15	0.79	39.68	40.47	66.25	-25.78	Peak
6	1.44	-0.04	40.00	39.96	64.22	-24.26	Peak

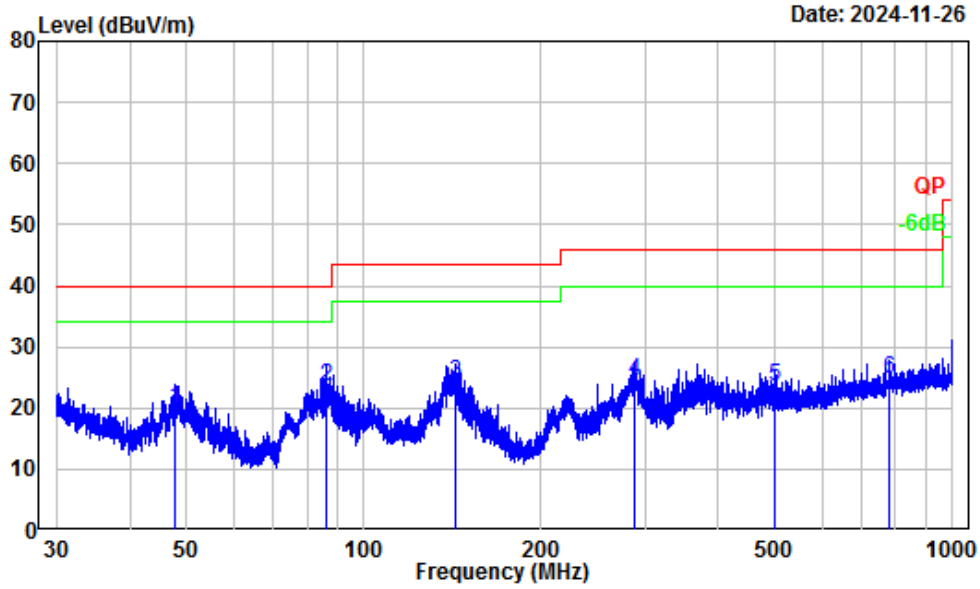
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2401Y27848E-RF
Test Mode : Transmitting
Detector QP RBW: 120KHz
Tester : Carl Zhu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	40.70	-12.86	23.92	11.06	40.00	-28.94	QP
2	86.05	-18.08	45.52	27.44	40.00	-12.56	QP
3	143.26	-12.11	44.60	32.49	43.50	-11.01	QP
4	291.29	-11.21	47.61	36.40	46.00	-9.60	QP
5	479.69	-6.35	33.14	26.79	46.00	-19.21	QP
6	883.34	-1.44	37.10	35.66	46.00	-10.34	QP

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2401Y27848E-RF
Test Mode : Transmitting
Detector QP RBW: 120KHz
Tester : Carl Zhu

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	47.78	-17.25	37.03	19.78	40.00	-20.22	QP
2	86.05	-18.08	41.60	23.52	40.00	-16.48	QP
3	143.26	-12.11	36.26	24.15	43.50	-19.35	QP
4	288.50	-11.22	35.54	24.32	46.00	-21.68	QP
5	499.86	-5.76	29.25	23.49	46.00	-22.51	QP
6	778.24	-2.40	27.24	24.84	46.00	-21.16	QP

Above 1GHz:

5150-5250 MHz

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT0)							
Low Channel							
5150	55.11	PK	H	2.77	57.88	74	-16.12
5150	41.34	AV	H	2.77	44.11	54	-9.89
5150	70.17	PK	V	2.77	72.94	74	-1.06
5150	44.61	AV	V	2.77	47.38	54	-6.62
10360	45.39	PK	H	12.88	58.27	68.2	-9.93
10360	46.08	PK	V	12.88	58.96	68.2	-9.24
Middle Channel							
10400	44.69	PK	H	12.98	57.67	68.2	-10.53
10400	44.55	PK	V	12.98	57.53	68.2	-10.67
High Channel							
5350	54.61	PK	H	3.07	57.68	74	-16.32
5350	41.17	AV	H	3.07	44.24	54	-9.76
5350	53.14	PK	V	3.07	56.21	74	-17.79
5350	40.83	AV	V	3.07	43.90	54	-10.10
10480	44.96	PK	H	13.26	58.22	68.2	-9.98
10480	45.23	PK	V	13.26	58.49	68.2	-9.71
802.11a(ANT1)							
Low Channel							
5150	56.14	PK	H	2.77	58.91	74	-15.09
5150	41.29	AV	H	2.77	44.06	54	-9.94
5150	70.13	PK	V	2.77	72.90	74	-1.10
5150	46.85	AV	V	2.77	49.62	54	-4.38
10360	45.89	PK	H	12.88	58.77	68.2	-9.43
10360	45.67	PK	V	12.88	58.55	68.2	-9.65
Middle Channel							
10400	44.94	PK	H	12.98	57.92	68.2	-10.28
10400	44.88	PK	V	12.98	57.86	68.2	-10.34
High Channel							
5350	54.02	PK	H	3.07	57.09	74	-16.91
5350	41.76	AV	H	3.07	44.83	54	-9.17
5350	53.68	PK	V	3.07	56.75	74	-17.25
5350	40.79	AV	V	3.07	43.86	54	-10.14
10480	45.25	PK	H	13.26	58.51	68.2	-9.69
10480	45.41	PK	V	13.26	58.67	68.2	-9.53

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT2)							
Low Channel							
5150	69.50	PK	H	2.77	72.27	74	-1.73
5150	40.58	AV	H	2.77	43.35	54	-10.65
5150	61.52	PK	V	2.77	64.29	74	-9.71
5150	41.26	AV	V	2.77	44.03	54	-9.97
10360	44.78	PK	H	12.88	57.66	68.2	-10.54
10360	44.67	PK	V	12.88	57.55	68.2	-10.65
Middle Channel							
10400	44.54	PK	H	12.98	57.52	68.2	-10.68
10400	45.05	PK	V	12.98	58.03	68.2	-10.17
High Channel							
5350	49.70	PK	H	3.07	52.77	74	-21.23
5350	40.82	AV	H	3.07	43.89	54	-10.11
5350	49.59	PK	V	3.07	52.66	74	-21.34
5350	40.68	AV	V	3.07	43.75	54	-10.25
10480	45.17	PK	H	13.26	58.43	68.2	-9.77
10480	45.49	PK	V	13.26	58.75	68.2	-9.45
802.11ac20							
Low Channel							
5150	61.82	PK	H	2.77	64.59	74	-9.41
5150	41.56	AV	H	2.77	44.33	54	-9.67
5150	69.31	PK	V	2.77	72.08	74	-1.92
5150	46.84	AV	V	2.77	49.61	54	-4.39
10360	45.46	PK	H	12.88	58.34	68.2	-9.86
10360	46.21	PK	V	12.88	59.09	68.2	-9.11
Middle Channel							
10400	45.96	PK	H	12.98	58.94	68.2	-9.26
10400	46.05	PK	V	12.98	59.03	68.2	-9.17
High Channel							
5350	54.28	PK	H	3.07	57.35	74	-16.65
5350	41.89	AV	H	3.07	44.96	54	-9.04
5350	53.90	PK	V	3.07	56.97	74	-17.03
5350	40.67	AV	V	3.07	43.74	54	-10.26
10480	45.49	PK	H	13.26	58.75	68.2	-9.45
10480	45.3	PK	V	13.26	58.56	68.2	-9.64

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac40							
Low Channel							
5147.36	62.42	PK	H	2.77	65.19	74	-8.81
5150.00	47.71	AV	H	2.77	50.48	54	-3.52
5145.63	68.84	PK	V	2.77	71.61	74	-2.39
5147.94	50.23	AV	V	2.77	53.00	54	-1.00
10380	45.47	PK	H	12.88	58.35	68.2	-9.85
10380	45.72	PK	V	12.88	58.6	68.2	-9.6
High Channel							
5350	68.89	PK	H	-6.74	62.15	74	-11.85
5350	54.21	AV	H	-6.74	47.47	54	-6.53
5350	69.49	PK	V	-6.74	62.75	74	-11.25
5350	55.09	AV	V	-6.74	48.35	54	-5.65
10460	45.52	PK	H	13.26	58.78	68.2	-9.42
10460	45.22	PK	V	13.26	58.48	68.2	-9.72
802.11ac80							
Middle Channel							
5150	60.01	PK	H	2.77	62.78	74	-11.22
5150	41.46	AV	H	2.77	44.23	54	-9.77
5150	69.97	PK	V	2.77	72.74	74	-1.26
5150	48.31	AV	V	2.77	51.08	54	-2.92
5350	54.17	PK	H	3.07	57.24	74	-16.76
5350	41.12	AV	H	3.07	44.19	54	-9.81
5350	53.12	PK	V	3.07	56.19	74	-17.81
5350	40.31	AV	V	3.07	43.38	54	-10.62
10420	45.63	PK	H	12.98	58.61	68.2	-9.59
10420	45.35	PK	V	12.98	58.33	68.2	-9.87

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax20							
Low Channel							
5150	67.11	PK	H	2.77	69.88	74	-4.12
5150	43.15	AV	H	2.77	45.92	54	-8.08
5150	69.70	PK	V	2.77	72.47	74	-1.53
5150	46.40	AV	V	2.77	49.17	54	-4.83
10360	45.55	PK	H	12.88	58.43	68.2	-9.77
10360	45.99	PK	H	12.88	58.87	68.2	-9.33
Middle Channel							
10400	46.04	PK	H	12.98	59.02	68.2	-9.18
10400	45.98	PK	V	12.98	58.96	68.2	-9.24
High Channel							
5350	54.38	PK	H	3.07	57.45	74	-16.55
5350	41.32	AV	H	3.07	44.39	54	-9.61
5350	53.08	PK	V	3.07	56.15	74	-17.85
5350	40.39	AV	V	3.07	43.46	54	-10.54
10480	45.38	PK	H	13.26	58.64	68.2	-9.56
10480	45.87	PK	V	13.26	59.13	68.2	-9.07
802.11ax40							
Low Channel							
5150	62.61	PK	H	2.77	65.38	74	-8.62
5150	42.18	AV	H	2.77	44.95	54	-9.05
5150	69.60	PK	V	2.77	72.37	74	-1.63
5150	48.28	AV	V	2.77	51.05	54	-2.95
10380	45.68	PK	H	12.88	58.56	68.2	-9.64
10380	45.39	PK	V	12.88	58.27	68.2	-9.93
High Channel							
5350	54.16	PK	H	3.07	57.23	74	-16.77
5350	41.64	AV	H	3.07	44.71	54	-9.29
5350	53.88	PK	V	3.07	56.95	74	-17.05
5350	40.73	AV	V	3.07	43.80	54	-10.20
10460	45.13	PK	H	13.26	58.39	68.2	-9.81
10460	45.62	PK	V	13.26	58.88	68.2	-9.32

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax80							
Middle Channel							
5150	62.68	PK	H	2.77	65.45	74	-8.55
5150	44.66	AV	H	2.77	47.43	54	-6.57
5150	69.40	PK	V	2.77	72.17	74	-1.83
5150	50.03	AV	V	2.77	52.80	54	-1.20
5350	54.87	PK	H	3.07	57.94	74	-16.06
5350	41.75	AV	H	3.07	44.82	54	-9.18
5350	52.96	PK	V	3.07	56.03	74	-17.97
5350	40.13	AV	V	3.07	43.20	54	-10.80
10420	45.73	PK	H	12.98	58.71	68.2	-9.49
10420	45.74	PK	V	12.98	58.72	68.2	-9.48

5250-5350MHz

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT0)							
Low Channel							
5150	54.65	PK	H	2.77	57.42	74	-16.58
5150	42.11	AV	H	2.77	44.88	54	-9.12
5150	54.19	PK	V	2.77	56.96	74	-17.04
5150	40.78	AV	V	2.77	43.55	54	-10.45
10520	45.16	PK	H	13.16	58.32	68.2	-9.88
10520	45.29	PK	V	13.16	58.45	68.2	-9.75
Middle Channel							
10560	45.1	PK	H	13.26	58.36	68.2	-9.84
10560	45.02	PK	V	13.26	58.28	68.2	-9.92
High Channel							
5350	55.12	PK	H	3.07	58.19	74	-15.81
5350	41.12	AV	H	3.07	44.19	54	-9.81
5350	69.88	PK	V	3.07	72.95	74	-1.05
5350	45.03	AV	V	3.07	48.10	54	-5.90
10640	45.68	PK	H	13.06	58.74	74	-15.26
10640	33.4	AV	H	13.06	46.46	54	-7.54
10640	47.74	PK	V	13.06	60.8	74	-13.2
10640	35.33	AV	V	13.06	48.39	54	-5.61
802.11a(ANT1)							
Low Channel							
5150	54.78	PK	H	2.77	57.55	74	-16.45
5150	42.03	AV	H	2.77	44.80	54	-9.20
5150	53.39	PK	V	2.77	56.16	74	-17.84
5150	40.79	AV	V	2.77	43.56	54	-10.44
10520	45.67	PK	H	13.16	58.83	68.2	-9.37
10520	45.3	PK	V	13.16	58.46	68.2	-9.74
Middle Channel							
10560	45.05	PK	H	13.26	58.31	68.2	-9.89
10560	45.94	PK	V	13.26	59.2	68.2	-9
High Channel							
5350	58.65	PK	H	3.07	61.72	74	-12.28
5350	41.59	AV	H	3.07	44.66	54	-9.34
5350	69.40	PK	V	3.07	72.47	74	-1.53
5350	43.63	AV	V	3.07	46.70	54	-7.30
10640	51.63	PK	H	13.06	64.69	74	-9.31
10640	34.01	PK	V	13.06	47.07	54	-6.93
10640	51.74	PK	V	13.06	64.8	74	-9.2
10640	35.06	AV	V	13.06	48.12	54	-5.88

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11a(ANT2)							
Low Channel							
5150	54.72	PK	H	2.77	57.49	74	-16.51
5150	42.18	AV	H	2.77	44.95	54	-9.05
5150	53.90	PK	V	2.77	56.67	74	-17.33
5150	40.97	AV	V	2.77	43.74	54	-10.26
10520	45.86	PK	H	13.16	59.02	68.2	-9.18
10520	45.1	PK	V	13.16	58.26	68.2	-9.94
Middle Channel							
10560	45.41	PK	H	13.26	58.67	68.2	-9.53
10560	45.74	PK	V	13.26	59	68.2	-9.2
High Channel							
5350	69.00	PK	H	3.07	72.07	74	-1.93
5350	44.47	AV	H	3.07	47.54	54	-6.46
5350	62.31	PK	V	3.07	65.38	74	-8.62
5350	40.20	AV	V	3.07	43.27	54	-10.73
10640	46.26	PK	H	13.06	59.32	74	-14.68
10640	32.41	AV	V	13.06	45.47	54	-8.53
10640	45.13	PK	V	13.06	58.19	74	-15.81
10640	31.45	AV	V	13.06	44.51	54	-9.49
802.11ac20							
Low Channel							
5150	55.04	PK	H	2.77	57.81	74	-16.19
5150	41.87	AV	H	2.77	44.64	54	-9.36
5150	54.02	PK	V	2.77	56.79	74	-17.21
5150	40.64	AV	V	2.77	43.41	54	-10.59
10520	45.9	PK	H	13.16	59.06	68.2	-9.14
10520	45.12	PK	V	13.16	58.28	68.2	-9.92
Middle Channel							
10560	45.57	PK	H	13.26	58.83	68.2	-9.37
10560	45.81	PK	V	13.26	59.07	68.2	-9.13
High Channel							
5350	61.23	PK	H	3.07	64.30	74	-9.70
5350	41.38	AV	H	3.07	44.45	54	-9.55
5350	69.11	PK	V	3.07	72.18	74	-1.82
5350	47.39	AV	V	3.07	50.46	54	-3.54
10640	45.79	PK	H	13.06	58.85	74	-15.15
10640	33.09	AV	V	13.06	46.15	54	-7.85
10640	46.63	PK	V	13.06	59.69	74	-14.31
10640	34.2	AV	V	13.06	47.26	54	-6.74

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac40							
Low Channel							
5150	55.15	PK	H	2.77	57.92	74	-16.08
5150	42.14	AV	H	2.77	44.91	54	-9.09
5150	53.41	PK	V	2.77	56.18	74	-17.82
5150	40.25	AV	V	2.77	43.02	54	-10.98
10540	45.38	PK	H	13.26	58.64	68.2	-9.56
10540	45.64	PK	V	13.26	58.9	68.2	-9.3
High Channel							
5350	60.00	PK	H	3.07	63.07	74	-10.93
5350	41.43	AV	H	3.07	44.50	54	-9.50
5350	68.91	PK	V	3.07	71.98	74	-2.02
5350	49.53	AV	V	3.07	52.60	54	-1.40
10620	45.86	PK	H	13.06	58.92	74	-15.08
10620	32.51	AV	V	13.06	45.57	54	-8.43
10620	45.03	PK	V	13.06	58.09	74	-15.91
10620	31.55	AV	V	13.06	44.61	54	-9.39
802.11ac80							
Middle Channel							
5150	54.72	PK	H	2.77	57.49	74	-16.51
5150	42.13	AV	H	2.77	44.90	54	-9.10
5150	53.88	PK	V	2.77	56.65	74	-17.35
5150	41.02	AV	V	2.77	43.79	54	-10.21
5350	58.14	PK	H	3.07	61.21	74	-12.79
5350	41.79	AV	H	3.07	44.86	54	-9.14
5350	69.48	PK	V	3.07	72.55	74	-1.45
5350	45.09	AV	V	3.07	48.16	54	-5.84
10580	45.52	PK	H	13.26	58.78	68.2	-9.42
10580	45.88	PK	V	13.26	59.14	68.2	-9.06

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac160							
Middle Channel							
5150	54.84	PK	H	2.77	57.61	74	-16.39
5150	42.77	AV	H	2.77	45.54	54	-8.46
5150	54.54	PK	V	2.77	57.31	74	-16.69
5150	41.93	AV	V	2.77	44.70	54	-9.30
5350	58.85	PK	H	3.07	61.92	74	-12.08
5350	42.46	AV	H	3.07	45.53	54	-8.47
5350	69.45	PK	V	3.07	72.52	74	-1.48
5350	46.09	AV	V	3.07	49.16	54	-4.84
10500	45.91	PK	H	13.38	59.29	68.2	-8.91
10500	46.09	PK	V	13.38	59.47	68.2	-8.73
802.11ax20							
Low Channel							
5150	55.17	PK	H	2.77	57.94	74	-16.06
5150	41.87	AV	H	2.77	44.64	54	-9.36
5150	53.36	PK	V	2.77	56.13	74	-17.87
5150	40.81	AV	V	2.77	43.58	54	-10.42
10520	45.73	PK	H	13.16	58.89	68.2	-9.31
10520	45.23	PK	V	13.16	58.39	68.2	-9.81
Middle Channel							
10560	45.72	PK	H	13.26	58.98	68.2	-9.22
10560	45.76	PK	V	13.26	59.02	68.2	-9.18
High Channel							
5350	66.04	PK	H	3.07	69.11	74	-4.89
5350	43.96	AV	H	3.07	47.03	54	-6.97
5350	69.05	PK	V	3.07	72.12	74	-1.88
5350	47.47	AV	V	3.07	50.54	54	-3.46
10640	45.86	PK	H	13.06	58.92	74	-15.08
10640	32.41	AV	V	13.06	45.47	54	-8.53
10640	45.13	PK	V	13.06	58.19	74	-15.81
10640	32.29	AV	V	13.06	45.35	54	-8.65

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax40							
Low Channel							
5150	54.73	PK	H	2.77	57.50	74	-16.50
5150	41.32	AV	H	2.77	44.09	54	-9.91
5150	53.51	PK	V	2.77	56.28	74	-17.72
5150	40.32	AV	V	2.77	43.09	54	-10.91
10540	45.45	PK	H	13.26	58.71	68.2	-9.49
10540	45.93	PK	V	13.26	59.19	68.2	-9.01
High Channel							
5350	59.83	PK	H	3.07	62.90	74	-11.10
5350	41.85	AV	H	3.07	44.92	54	-9.08
5350	69.13	PK	V	3.07	72.20	74	-1.80
5350	48.06	AV	V	3.07	51.13	54	-2.87
10620	45.86	PK	H	13.06	58.92	74	-15.08
10620	32.71	AV	V	13.06	45.77	54	-8.23
10620	45.03	PK	V	13.06	58.09	74	-15.91
10620	31.55	AV	V	13.06	44.61	54	-9.39
802.11ax80							
Middle Channel							
5150	54.88	PK	H	2.77	57.65	74	-16.35
5150	41.23	AV	H	2.77	44.00	54	-10.00
5150	54.30	PK	V	2.77	57.07	74	-16.93
5150	41.19	AV	V	2.77	43.96	54	-10.04
5350	61.68	PK	H	3.07	64.75	74	-9.25
5350	43.50	AV	H	3.07	46.57	54	-7.43
5350	69.05	PK	V	3.07	72.12	74	-1.88
5350	49.72	AV	V	3.07	52.79	54	-1.21
10580	45.87	PK	H	13.26	59.13	68.2	-9.07
10580	45.81	PK	V	13.26	59.07	68.2	-9.13

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax160							
Middle Channel							
5150	54.92	PK	H	2.77	57.69	74	-16.31
5150	41.88	AV	H	2.77	44.65	54	-9.35
5150	54.92	PK	V	2.77	57.69	74	-16.31
5150	41.74	AV	V	2.77	44.51	54	-9.49
5350	62.53	PK	H	3.07	65.60	74	-8.40
5350	43.65	AV	H	3.07	46.72	54	-7.28
5350	69.61	PK	V	3.07	72.68	74	-1.32
5350	49.63	AV	V	3.07	52.70	54	-1.30
10500	46.53	PK	H	13.16	59.69	68.2	-8.51
10500	45.9	PK	V	13.16	59.06	68.2	-9.14

5470-5725MHz

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT0)							
Low Channel							
5460	53.52	PK	H	3.59	57.11	74	-16.89
5460	40.49	AV	H	3.59	44.08	54	-9.92
5460	54.03	PK	V	3.59	57.62	74	-16.38
5460	40.77	AV	V	3.59	44.36	54	-9.64
5470	54.93	PK	H	3.69	58.62	68.2	-9.58
5470	63.36	PK	V	3.69	67.05	68.2	-1.15
11000	44.36	PK	H	13.98	58.34	74	-15.66
11000	30.81	AV	V	13.98	44.79	54	-9.21
11000	44.81	PK	V	13.98	58.79	74	-15.21
11000	30.61	AV	V	13.98	44.59	54	-9.41
Middle Channel							
11160	44.69	PK	H	13.38	58.07	74	-15.93
11160	31.2	AV	V	13.38	44.58	54	-9.42
11160	44.85	PK	V	13.38	58.23	74	-15.77
11160	31.55	AV	V	13.38	44.93	54	-9.07
High Channel							
5725	54.69	PK	H	4.09	58.78	68.2	-9.42
5725	54.62	PK	V	4.09	58.71	68.2	-9.49
11400	44.76	PK	H	13.48	58.24	74	-15.76
11400	30.83	AV	V	13.48	44.31	54	-9.69
11400	44.63	PK	V	13.48	58.11	74	-15.89
11400	30.54	AV	V	13.48	44.02	54	-9.98
Cross Channel							
11440	46.00	PK	H	13.48	59.48	74	-14.52
11440	32.28	AV	H	13.48	45.76	54	-8.24
11440	45.27	PK	V	13.48	58.75	74	-15.25
11440	31.25	AV	V	13.48	44.73	54	-9.27

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT1)							
Low Channel							
5460	54.35	PK	H	3.59	57.94	74	-16.06
5460	40.55	AV	H	3.59	44.14	54	-9.86
5460	54.33	PK	V	3.59	57.92	74	-16.08
5460	41.08	AV	V	3.59	44.67	54	-9.33
5470	55.02	PK	H	3.69	58.71	68.2	-9.49
5470	63.26	PK	V	3.69	66.95	68.2	-1.25
11000	44.61	PK	H	13.98	58.59	74	-15.41
11000	30.15	AV	V	13.98	44.13	54	-9.87
11000	44.87	PK	V	13.98	58.85	74	-15.15
11000	30.34	AV	V	13.98	44.32	54	-9.68
Middle Channel							
11160	44.99	PK	H	13.38	58.37	74	-15.63
11160	30.79	AV	V	13.38	44.17	54	-9.83
11160	45.4	PK	V	13.38	58.78	74	-15.22
11160	30.9	AV	V	13.38	44.28	54	-9.72
High Channel							
5725	54.65	PK	H	4.09	58.74	68.2	-9.46
5725	54.46	PK	V	4.09	58.55	68.2	-9.65
11400	45.12	PK	H	13.48	58.6	74	-15.4
11400	31.46	AV	V	13.48	44.94	54	-9.06
11400	45.54	PK	V	13.48	59.02	74	-14.98
11400	32.02	AV	V	13.48	45.5	54	-8.5
Cross Channel							
11440	45.88	PK	H	13.48	59.36	74	-14.64
11440	31.93	AV	H	13.48	45.41	54	-8.59
11440	45.56	PK	V	13.48	59.04	74	-14.96
11440	31.20	AV	V	13.48	44.68	54	-9.32

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave					
802.11a(ANT2)							
Low Channel							
5460	60.39	PK	H	3.59	63.98	74	-10.02
5460	41.54	AV	H	3.59	45.13	54	-8.87
5460	57.18	PK	V	3.59	60.77	74	-13.23
5460	40.68	AV	V	3.59	44.27	54	-9.73
5470	63.48	PK	H	3.69	67.17	68.2	-1.03
5470	58.28	PK	V	3.69	61.97	68.2	-6.23
11000	44.41	PK	H	13.98	58.39	74	-15.61
11000	30.04	AV	V	13.98	44.02	54	-9.98
11000	44.24	PK	V	13.98	58.22	74	-15.78
11000	30.79	AV	V	13.98	44.77	54	-9.23
Middle Channel							
11160	45.05	PK	H	13.38	58.43	74	-15.57
11160	31.25	AV	V	13.38	44.63	54	-9.37
11160	45.57	PK	V	13.38	58.95	74	-15.05
11160	31.11	AV	V	13.38	44.49	54	-9.51
High Channel							
5725	54.33	PK	H	4.09	58.42	68.2	-9.78
5725	54.97	PK	V	4.09	59.06	68.2	-9.14
11400	45.04	PK	H	13.48	58.52	74	-15.48
11400	31.03	AV	V	13.48	44.51	54	-9.49
11400	44.93	PK	V	13.48	58.41	74	-15.59
11400	30.59	AV	V	13.48	44.07	54	-9.93
Cross Channel							
11440	45.35	PK	H	13.48	58.83	74	-15.17
11440	32.02	AV	H	13.48	45.50	54	-8.50
11440	45.46	PK	V	13.48	58.94	74	-15.06
11440	31.51	AV	V	13.48	44.99	54	-9.01

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac20							
Low Channel							
5460	57.35	PK	H	3.59	60.94	74	-13.06
5460	40.47	AV	H	3.59	44.06	54	-9.94
5460	59.92	PK	V	3.59	63.51	74	-10.49
5460	40.97	AV	V	3.59	44.56	54	-9.44
5470	60.76	PK	H	3.69	64.45	68.2	-3.75
5470	63.04	PK	V	3.69	66.73	68.2	-1.47
11000	45.14	PK	H	13.98	59.12	74	-14.88
11000	31.39	AV	V	13.98	45.37	54	-8.63
11000	44.21	PK	V	13.98	58.19	74	-15.81
11000	30.53	AV	V	13.98	44.51	54	-9.49
Middle Channel							
11160	45.74	PK	H	13.38	59.12	74	-14.88
11160	32.29	AV	V	13.38	45.67	54	-8.33
11160	44.71	PK	V	13.38	58.09	74	-15.91
11160	31.23	AV	V	13.38	44.61	54	-9.39
High Channel							
5725	54.74	PK	H	4.09	58.83	68.2	-9.37
5725	55.05	PK	V	4.09	59.14	68.2	-9.06
11400	45.64	PK	H	13.48	59.12	74	-14.88
11400	31.99	AV	V	13.48	45.47	54	-8.53
11400	44.51	PK	V	13.48	57.99	74	-16.01
11400	31.03	AV	V	13.48	44.51	54	-9.49
Cross Channel							
11440	45.50	PK	H	13.48	58.98	74	-15.02
11440	32.19	AV	H	13.48	45.67	54	-8.33
11440	44.93	PK	V	13.48	58.41	74	-15.59
11440	31.05	AV	V	13.48	44.53	54	-9.47

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac40							
Low Channel							
5460	53.53	PK	H	3.59	57.12	74	-16.88
5460	41.28	AV	H	3.59	44.87	54	-9.13
5460	58.26	PK	V	3.59	61.85	74	-12.15
5460	41.84	AV	V	3.59	45.43	54	-8.57
5470	55.37	PK	H	3.69	59.06	68.2	-9.14
5470	63.29	PK	V	3.69	66.98	68.2	-1.22
11020	45.34	PK	H	13.98	59.32	74	-14.68
11020	31.69	AV	V	13.98	45.67	54	-8.33
11020	44.11	PK	V	13.98	58.09	74	-15.91
11020	30.63	AV	V	13.98	44.61	54	-9.39
Middle Channel							
11100	45.92	PK	H	13.38	59.3	74	-14.7
11100	32.38	AV	H	13.38	45.76	54	-8.24
11100	44.91	PK	V	13.38	58.29	74	-15.71
11100	31.22	AV	V	13.38	44.6	54	-9.4
High Channel							
5725	54.95	PK	H	4.09	59.04	68.2	-9.16
5725	54.47	PK	V	4.09	58.56	68.2	-9.64
11340	45.64	PK	H	13.48	59.12	74	-14.88
11340	32.29	AV	V	13.48	45.77	54	-8.23
11340	44.51	PK	V	13.48	57.99	74	-16.01
11340	31.23	AV	V	13.48	44.71	54	-9.29
Cross Channel							
11420	46.08	PK	H	13.48	59.56	74	-14.44
11420	32.45	AV	H	13.48	45.93	54	-8.07
11420	45.65	PK	V	13.48	59.13	74	-14.87
11420	31.70	AV	V	13.48	45.18	54	-8.82

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac80							
Low Channel							
5460	54.38	PK	H	3.59	57.97	74	-16.03
5460	40.52	AV	H	3.59	44.11	54	-9.89
5460	63.63	PK	V	3.59	67.22	74	-6.78
5460	44.32	AV	V	3.59	47.91	54	-6.09
5470	55.18	PK	H	3.69	58.87	68.2	-9.33
5470	62.98	PK	V	3.69	66.67	68.2	-1.53
11060	45.14	PK	H	13.98	59.12	74	-14.88
11060	31.69	AV	V	13.98	45.67	54	-8.33
11060	44.01	PK	V	13.98	57.99	74	-16.01
11060	30.53	AV	V	13.98	44.51	54	-9.49
High Channel							
5725	54.56	PK	H	4.09	58.65	68.2	-9.55
5725	55.03	PK	V	4.09	59.12	68.2	-9.08
11220	45.39	PK	H	13.38	58.77	74	-15.23
11220	31.48	AV	V	13.38	44.86	54	-9.14
11220	45.54	PK	V	13.38	58.92	74	-15.08
11220	32.09	AV	V	13.38	45.47	54	-8.53
Cross Channel							
11380	45.51	PK	H	13.38	58.89	74	-15.11
11380	32.43	AV	H	13.38	45.81	54	-8.19
11380	45.27	PK	V	13.38	58.65	74	-15.35
11380	31.70	AV	V	13.38	45.08	54	-8.92

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac160							
Middle Channel							
5460	54.62	PK	H	3.59	58.21	74	-15.79
5460	41.40	AV	H	3.59	44.99	54	-9.01
5460	64.47	PK	V	3.59	68.06	74	-5.94
5460	45.24	AV	V	3.59	48.83	54	-5.17
5470	55.31	PK	H	3.69	59.00	68.2	-9.20
5470	63.50	PK	V	3.69	67.19	68.2	-1.01
5725	55.49	PK	H	4.09	59.58	68.2	-8.62
5725	55.61	PK	V	4.09	59.70	68.2	-8.50
11140	46.25	PK	H	13.38	59.63	74	-14.37
11140	32.26	AV	H	13.38	45.64	54	-8.36
11140	45.58	PK	V	13.38	58.96	74	-15.04
11140	33.08	AV	V	13.38	46.46	54	-7.54

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax20							
Low Channel							
5460	56.65	PK	H	3.59	60.24	74	-13.76
5460	40.93	AV	H	3.59	44.52	54	-9.48
5460	56.58	PK	V	3.59	60.17	74	-13.83
5460	40.51	AV	V	3.59	44.10	54	-9.90
5470	61.80	PK	H	3.69	65.49	68.2	-2.71
5470	63.29	PK	V	3.69	66.98	68.2	-1.22
11000	44.45	PK	H	13.98	58.43	74	-15.57
11000	30.51	AV	V	13.98	44.49	54	-9.51
11000	45.38	PK	V	13.98	59.36	74	-14.64
11000	30.86	AV	V	13.98	44.84	54	-9.16
Middle Channel							
11160	45.54	PK	H	13.38	58.92	74	-15.08
11160	31.99	AV	V	13.38	45.37	54	-8.63
11160	44.71	PK	V	13.38	58.09	74	-15.91
11160	31.23	AV	V	13.38	44.61	54	-9.39
High Channel							
5725	54.38	PK	H	4.09	58.47	68.2	-9.73
5725	54.99	PK	V	4.09	59.08	68.2	-9.12
11400	44.58	PK	H	13.48	58.06	74	-15.94
11400	31.25	AV	V	13.48	44.73	54	-9.27
11400	45.98	PK	V	13.48	59.46	74	-14.54
11400	31.46	AV	V	13.48	44.94	54	-9.06
Cross Channel							
11440	45.46	PK	H	13.48	58.94	74	-15.06
11440	32.33	AV	H	13.48	45.81	54	-8.19
11440	45.67	PK	V	13.48	59.15	74	-14.85
11440	31.20	AV	V	13.48	44.68	54	-9.32

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax40							
Low Channel							
5460	53.78	PK	H	3.59	57.37	74	-16.63
5460	41.00	AV	H	3.59	44.59	54	-9.41
5460	59.19	PK	V	3.59	62.78	74	-11.22
5460	40.64	AV	V	3.59	44.23	54	-9.77
5470	55.29	PK	H	3.69	58.98	68.2	-9.22
5470	62.76	PK	V	3.69	66.45	68.2	-1.75
11020	44.29	PK	H	13.98	58.27	74	-15.73
11020	30.4	AV	V	13.98	44.38	54	-9.62
11020	45.24	PK	V	13.98	59.22	74	-14.78
11020	30.53	AV	V	13.98	44.51	54	-9.49
Middle Channel							
11100	45.47	PK	H	13.38	58.85	74	-15.15
11100	32	AV	H	13.38	45.38	54	-8.62
11100	44.39	PK	V	13.38	57.77	74	-16.23
11100	31.37	AV	V	13.38	44.75	54	-9.25
High Channel							
5725	54.34	PK	H	4.09	58.43	68.2	-9.77
5725	54.47	PK	V	4.09	58.56	68.2	-9.64
11340	45.35	PK	H	13.48	58.83	74	-15.17
11340	30.94	AV	V	13.48	44.42	54	-9.58
11340	45.69	PK	V	13.48	59.17	74	-14.83
11340	31.48	AV	V	13.48	44.96	54	-9.04
Cross Channel							
11420	45.90	PK	H	13.48	59.38	74	-14.62
11420	31.94	AV	H	13.48	45.42	54	-8.58
11420	44.80	PK	V	13.48	58.28	74	-15.72
11420	31.90	AV	V	13.48	45.38	54	-8.62

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax80							
Low Channel							
5460	53.53	PK	H	3.59	57.12	74	-16.88
5460	40.43	AV	H	3.59	44.02	54	-9.98
5460	59.97	PK	V	3.59	63.56	74	-10.44
5460	43.38	AV	V	3.59	46.97	54	-7.03
5470	54.58	PK	H	3.69	58.27	68.2	-9.93
5470	62.59	PK	V	3.69	66.28	68.2	-1.92
11060	44.77	PK	H	13.98	58.75	74	-15.25
11060	30.4	AV	V	13.98	44.38	54	-9.62
11060	45.37	PK	V	13.98	59.35	74	-14.65
11060	30.9	AV	V	13.98	44.88	54	-9.12
High Channel							
5725	54.30	PK	H	4.09	58.39	68.2	-9.81
5725	54.26	PK	V	4.09	58.35	68.2	-9.85
11220	45.22	PK	H	13.38	58.6	74	-15.4
11220	31.59	AV	V	13.38	44.97	54	-9.03
11220	45.52	PK	V	13.38	58.9	74	-15.1
11220	31.62	AV	V	13.38	45	54	-9
Cross Channel							
11380	45.75	PK	H	13.38	59.13	74	-14.87
11380	32.39	AV	H	13.38	45.77	54	-8.23
11380	45.10	PK	V	13.38	58.48	74	-15.52
11380	31.95	AV	V	13.38	45.33	54	-8.67
802.11ax160							
Middle Channel							
5460	53.54	PK	H	3.59	57.13	74	-16.87
5460	40.57	AV	H	3.59	44.16	54	-9.84
5460	60.28	PK	V	3.59	63.87	74	-10.13
5460	43.53	AV	V	3.59	47.12	54	-6.88
5470	54.59	PK	H	3.69	58.28	68.2	-9.92
5470	62.86	PK	V	3.69	66.55	68.2	-1.65
5725	54.81	PK	H	4.09	58.90	68.2	-9.30
5725	54.86	PK	V	4.09	58.95	68.2	-9.25
11140	45.37	PK	H	13.38	58.75	74	-15.25
11140	31.96	AV	H	13.38	45.34	54	-8.66
11140	45.95	PK	V	13.38	59.33	74	-14.67
11140	32.57	AV	V	13.38	45.95	54	-8.05

5725-5850MHz

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT0)							
Low Channel							
5725	66.01	PK	H	4.09	70.10	122.2	-52.10
5725	80.55	PK	V	4.09	84.64	122.2	-37.56
5720	53.68	PK	H	4.09	57.77	110.8	-53.03
5720	67.85	PK	V	4.09	71.94	110.8	-38.86
5700	53.13	PK	H	4.09	57.22	105.2	-47.98
5700	58.02	PK	V	4.09	62.11	105.2	-43.09
5650	55.27	PK	H	3.59	58.86	68.2	-9.34
5650	54.62	PK	V	3.59	58.21	68.2	-9.99
11490	44.27	PK	H	14.03	58.30	74	-15.70
11490	30.95	AV	V	14.03	44.98	54	-9.02
11490	44.96	PK	H	14.03	58.99	74	-15.01
11490	30.82	AV	V	14.03	44.85	54	-9.15
Middle Channel							
11570	44.80	PK	H	14.13	58.93	74	-15.07
11570	30.49	AV	V	14.13	44.62	54	-9.38
11570	44.39	PK	H	14.13	58.52	74	-15.48
11570	30.37	AV	V	14.13	44.50	54	-9.50
High Channel							
5850	56.09	PK	H	4.09	60.18	122.2	-62.02
5850	71.94	PK	V	4.09	76.03	122.2	-46.17
5855	52.91	PK	H	4.09	57.00	110.8	-53.80
5855	66.97	PK	V	4.09	71.06	110.8	-39.74
5875	53.69	PK	H	4.19	57.88	105.2	-47.32
5875	55.86	PK	V	4.19	60.05	105.2	-45.15
5925	53.91	PK	H	4.69	58.60	68.2	-9.60
5925	53.98	PK	V	4.69	58.67	68.2	-9.53
11650	44.59	PK	H	13.83	58.42	74	-15.58
11650	30.80	AV	V	13.83	44.63	54	-9.37
11650	45.29	PK	H	13.83	59.12	74	-14.88
11650	31.16	AV	V	13.83	44.99	54	-9.01

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT1)							
Low Channel							
5725	59.51	PK	H	4.09	63.60	122.2	-58.60
5725	71.97	PK	V	4.09	76.06	122.2	-46.14
5720	53.69	PK	H	4.09	57.78	110.8	-53.02
5720	58.54	PK	V	4.09	62.63	110.8	-48.17
5700	54.36	PK	H	4.09	58.45	105.2	-46.75
5700	54.28	PK	V	4.09	58.37	105.2	-46.83
5650	55.01	PK	H	3.59	58.60	68.2	-9.60
5650	54.78	PK	V	3.59	58.37	68.2	-9.83
11490	44.67	PK	H	14.03	58.70	74	-15.30
11490	30.87	AV	V	14.03	44.90	54	-9.10
11490	44.37	PK	H	14.03	58.40	74	-15.60
11490	30.27	AV	V	14.03	44.30	54	-9.70
Middle Channel							
11570	44.37	PK	H	14.13	58.50	74	-15.50
11570	30.47	AV	V	14.13	44.60	54	-9.40
11570	44.07	PK	H	14.13	58.20	74	-15.80
11570	30.17	AV	V	14.13	44.30	54	-9.70
High Channel							
5850	53.29	PK	H	4.09	57.38	122.2	-64.82
5850	59.14	PK	V	4.09	63.23	122.2	-58.97
5855	53.66	PK	H	4.09	57.75	110.8	-53.05
5855	53.91	PK	V	4.09	58.00	110.8	-52.80
5875	54.24	PK	H	4.19	58.43	105.2	-46.77
5875	54.00	PK	V	4.19	58.19	105.2	-47.01
5925	54.31	PK	H	4.69	59.00	68.2	-9.20
5925	53.98	PK	V	4.69	58.67	68.2	-9.53
11650	44.67	PK	H	13.83	58.50	74	-15.50
11650	30.87	AV	V	13.83	44.70	54	-9.30
11650	44.57	PK	H	13.83	58.40	74	-15.60
11650	30.57	AV	V	13.83	44.40	54	-9.60

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11a(ANT2)							
Low Channel							
5725	72.35	PK	H	4.09	76.44	122.2	-45.76
5725	67.88	PK	V	4.09	71.97	122.2	-50.23
5720	61.73	PK	H	4.09	65.82	110.8	-44.98
5720	57.18	PK	V	4.09	61.27	110.8	-49.53
5700	54.36	PK	H	4.09	58.45	105.2	-46.75
5700	53.63	PK	V	4.09	57.72	105.2	-47.48
5650	55.33	PK	H	3.59	58.92	68.2	-9.28
5650	55.50	PK	V	3.59	59.09	68.2	-9.11
11490	44.67	PK	H	14.03	58.70	74	-15.30
11490	30.57	AV	V	14.03	44.60	54	-9.40
11490	44.17	PK	H	14.03	58.20	74	-15.80
11490	30.17	AV	V	14.03	44.20	54	-9.80
Middle Channel							
11570	44.47	PK	H	14.13	58.60	74	-15.40
11570	30.37	AV	V	14.13	44.50	54	-9.50
11570	44.07	PK	H	14.13	58.20	74	-15.80
11570	30.27	AV	V	14.13	44.40	54	-9.60
High Channel							
5850	63.81	PK	H	4.09	67.90	122.2	-54.30
5850	59.70	PK	V	4.09	63.79	122.2	-58.41
5855	62.43	PK	H	4.09	66.52	110.8	-44.28
5855	58.41	PK	V	4.09	62.50	110.8	-48.30
5875	54.44	PK	H	4.19	58.63	105.2	-46.57
5875	53.73	PK	V	4.19	57.92	105.2	-47.28
5925	53.60	PK	H	4.69	58.29	68.2	-9.91
5925	53.64	PK	V	4.69	58.33	68.2	-9.87
11650	44.67	PK	H	13.83	58.50	74	-15.50
11650	30.97	AV	V	13.83	44.80	54	-9.20
11650	44.57	PK	H	13.83	58.40	74	-15.60
11650	30.57	AV	V	13.83	44.40	54	-9.60

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac20							
Low Channel							
5725	72.71	PK	H	4.09	76.80	122.2	-45.40
5725	80.12	PK	V	4.09	84.21	122.2	-37.99
5720	63.18	PK	H	4.09	67.27	110.8	-43.53
5720	69.16	PK	V	4.09	73.25	110.8	-37.55
5700	56.13	PK	H	4.09	60.22	105.2	-44.98
5700	59.09	PK	V	4.09	63.18	105.2	-42.02
5650	55.42	PK	H	3.59	59.01	68.2	-9.19
5650	55.11	PK	V	3.59	58.70	68.2	-9.50
11490	44.77	PK	H	14.03	58.80	74	-15.20
11490	30.67	AV	V	14.03	44.70	54	-9.30
11490	43.97	PK	H	14.03	58.00	74	-16.00
11490	30.27	AV	V	14.03	44.30	54	-9.70
Middle Channel							
11570	44.37	PK	H	14.13	58.50	74	-15.50
11570	30.57	AV	V	14.13	44.70	54	-9.30
11570	44.17	PK	H	14.13	58.30	74	-15.70
11570	30.17	AV	V	14.13	44.30	54	-9.70
High Channel							
5850	66.25	PK	H	4.09	70.34	122.2	-51.86
5850	69.40	PK	V	4.09	73.49	122.2	-48.71
5855	64.18	PK	H	4.09	68.27	110.8	-42.53
5855	68.06	PK	V	4.09	72.15	110.8	-38.65
5875	54.39	PK	H	4.19	58.58	105.2	-46.62
5875	54.68	PK	V	4.19	58.87	105.2	-46.33
5925	53.89	PK	H	4.69	58.58	68.2	-9.62
5925	54.38	PK	V	4.69	59.07	68.2	-9.13
11650	44.77	PK	H	13.83	58.60	74	-15.40
11650	30.67	AV	V	13.83	44.50	54	-9.50
11650	44.37	PK	H	13.83	58.20	74	-15.80
11650	30.47	AV	V	13.83	44.30	54	-9.70

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac40							
Low Channel							
5725	70.95	PK	H	4.09	75.04	122.2	-47.16
5725	82.59	PK	V	4.09	86.68	122.2	-35.52
5720	68.62	PK	H	4.09	72.71	110.8	-38.09
5720	83.22	PK	V	4.09	87.31	110.8	-23.49
5700	55.94	PK	H	4.09	60.03	105.2	-45.17
5700	65.79	PK	V	4.09	69.88	105.2	-35.32
5650	55.21	PK	H	3.59	58.80	68.2	-9.40
5650	55.13	PK	V	3.59	58.72	68.2	-9.48
11510	44.57	PK	H	14.23	58.80	74	-15.20
11510	30.57	AV	V	14.23	44.80	54	-9.20
11510	44.17	PK	H	14.23	58.40	74	-15.60
11510	30.07	AV	V	14.23	44.30	54	-9.70
High Channel							
5850	59.86	PK	H	4.09	63.95	122.2	-58.25
5850	64.04	PK	V	4.09	68.13	122.2	-54.07
5855	57.14	PK	H	4.09	61.23	110.8	-49.57
5855	61.78	PK	V	4.09	65.87	110.8	-44.93
5875	54.15	PK	H	4.19	58.34	105.2	-46.86
5875	55.08	PK	V	4.19	59.27	105.2	-45.93
5925	53.51	PK	H	4.69	58.20	68.2	-10.00
5925	53.64	PK	V	4.69	58.33	68.2	-9.87
11590	44.67	PK	H	14.13	58.80	74	-15.20
11590	30.67	AV	V	14.13	44.80	54	-9.20
11590	44.27	PK	H	14.13	58.40	74	-15.60
11590	30.07	AV	V	14.13	44.20	54	-9.80

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ac80							
Middle Channel							
5725	63.59	PK	H	4.09	67.68	122.2	-54.52
5725	77.68	PK	V	4.09	81.77	122.2	-40.43
5720	63.44	PK	H	4.09	67.53	110.8	-43.27
5720	75.74	PK	V	4.09	79.83	110.8	-30.97
5700	61.66	PK	H	4.09	65.75	105.2	-39.45
5700	72.41	PK	V	4.09	76.50	105.2	-28.70
5650	54.85	PK	H	3.59	58.44	68.2	-9.76
5650	55.68	PK	V	3.59	59.27	68.2	-8.93
5850	60.45	PK	H	4.09	64.54	122.2	-57.66
5850	72.12	PK	V	4.09	76.21	122.2	-45.99
5855	61.69	PK	H	4.09	65.78	110.8	-45.02
5855	69.81	PK	V	4.09	73.90	110.8	-36.90
5875	60.00	PK	H	4.19	64.19	105.2	-41.01
5875	66.39	PK	V	4.19	70.58	105.2	-34.62
5925	54.14	PK	H	4.69	58.83	68.2	-9.37
5925	54.18	PK	V	4.69	58.87	68.2	-9.33
11550	44.47	PK	H	14.23	58.70	74	-15.30
11550	30.47	AV	V	14.23	44.70	54	-9.30
11550	43.97	PK	H	14.23	58.20	74	-15.80
11550	30.07	AV	V	14.23	44.30	54	-9.70

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax20							
Low Channel							
5725	75.25	PK	H	4.09	79.34	122.2	-42.86
5725	82.35	PK	V	4.09	86.44	122.2	-35.76
5720	68.29	PK	H	4.09	72.38	110.8	-38.42
5720	79.86	PK	V	4.09	83.95	110.8	-26.85
5700	54.98	PK	H	4.09	59.07	105.2	-46.13
5700	59.00	PK	V	4.09	63.09	105.2	-42.11
5650	54.79	PK	H	3.59	58.38	68.2	-9.82
5650	55.52	PK	V	3.59	59.11	68.2	-9.09
11490	44.47	PK	H	14.03	58.50	74	-15.50
11490	30.57	AV	V	14.03	44.60	54	-9.40
11490	44.07	PK	H	14.03	58.10	74	-15.90
11490	30.17	AV	V	14.03	44.20	54	-9.80
Middle Channel							
11570	44.47	PK	H	14.13	58.60	74	-15.40
11570	30.67	AV	V	14.13	44.80	54	-9.20
11570	43.97	PK	H	14.13	58.10	74	-15.90
11570	30.27	AV	V	14.13	44.40	54	-9.60
High Channel							
5850	69.67	PK	H	4.09	73.76	122.2	-48.44
5850	77.01	PK	V	4.09	81.10	122.2	-41.10
5855	63.48	PK	H	4.09	67.57	110.8	-43.23
5855	67.58	PK	V	4.09	71.67	110.8	-39.13
5875	53.61	PK	H	4.19	57.80	105.2	-47.40
5875	53.68	PK	V	4.19	57.87	105.2	-47.33
5925	53.97	PK	H	4.69	58.66	68.2	-9.54
5925	53.69	PK	V	4.69	58.38	68.2	-9.82
11650	44.75	PK	H	13.83	58.58	74	-15.42
11650	30.85	AV	V	13.83	44.68	54	-9.32
11650	44.56	PK	H	13.83	58.39	74	-15.61
11650	30.44	AV	V	13.83	44.27	54	-9.73

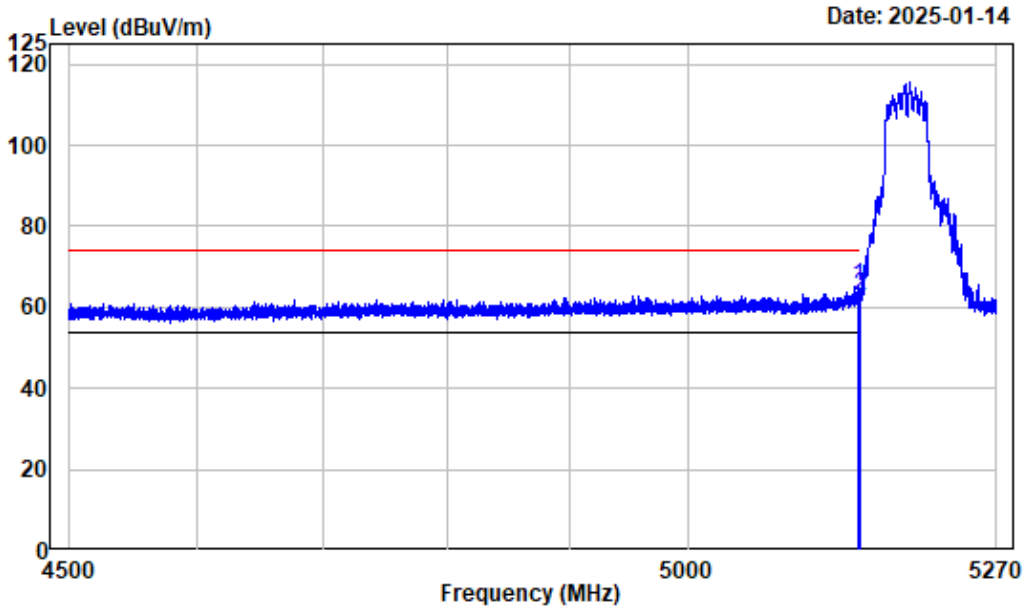
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax20							
Low Channel							
5725	70.22	PK	H	4.09	74.31	122.2	-47.89
5725	81.10	PK	V	4.09	85.19	122.2	-37.01
5720	68.53	PK	H	4.09	72.62	110.8	-38.18
5720	77.96	PK	V	4.09	82.05	110.8	-28.75
5700	59.65	PK	H	4.09	63.74	105.2	-41.46
5700	63.02	PK	V	4.09	67.11	105.2	-38.09
5650	55.01	PK	H	3.59	58.60	68.2	-9.60
5650	54.64	PK	V	3.59	58.23	68.2	-9.97
11510	44.45	PK	H	14.23	58.68	74	-15.32
11510	30.55	AV	V	14.23	44.78	54	-9.22
11510	43.76	PK	H	14.23	57.99	74	-16.01
11510	30.04	AV	V	14.23	44.27	54	-9.73
High Channel							
5850	59.54	PK	H	4.09	63.63	122.2	-58.57
5850	65.51	PK	V	4.09	69.60	122.2	-52.60
5855	59.05	PK	H	4.09	63.14	110.8	-47.66
5855	62.04	PK	V	4.09	66.13	110.8	-44.67
5875	55.35	PK	H	4.19	59.54	105.2	-45.66
5875	58.14	PK	V	4.19	62.33	105.2	-42.87
5925	54.48	PK	H	4.69	59.17	68.2	-9.03
5925	54.30	PK	V	4.69	58.99	68.2	-9.21
11590	44.75	PK	H	14.13	58.88	74	-15.12
11590	30.45	AV	V	14.13	44.58	54	-9.42
11590	44.06	PK	H	14.13	58.19	74	-15.81
11590	30.14	AV	V	14.13	44.27	54	-9.73

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	Reading (dBµV)	PK/Ave					
802.11ax80							
Middle Channel							
5725	68.97	PK	H	4.09	73.06	122.2	-49.14
5725	75.90	PK	V	4.09	79.99	122.2	-42.21
5720	68.68	PK	H	4.09	72.77	110.8	-38.03
5720	74.11	PK	V	4.09	78.20	110.8	-32.60
5700	67.63	PK	H	4.09	71.72	105.2	-33.48
5700	72.58	PK	V	4.09	76.67	105.2	-28.53
5650	55.50	PK	H	3.59	59.09	68.2	-9.11
5650	57.17	PK	V	3.59	60.76	68.2	-7.44
5850	67.45	PK	H	4.09	71.54	122.2	-50.66
5850	73.00	PK	V	4.09	77.09	122.2	-45.11
5855	67.61	PK	H	4.09	71.70	110.8	-39.10
5855	72.38	PK	V	4.09	76.47	110.8	-34.33
5875	62.89	PK	H	4.19	67.08	105.2	-38.12
5875	69.41	PK	V	4.19	73.60	105.2	-31.60
5925	54.41	PK	H	4.69	59.10	68.2	-9.10
5925	55.70	PK	V	4.69	60.39	68.2	-7.81
11550	44.89	PK	H	14.23	59.12	74	-14.88
11550	31.44	AV	V	14.23	45.67	54	-8.33
11550	43.96	PK	H	14.23	58.19	74	-15.81
11550	30.38	AV	V	14.23	44.61	54	-9.39

Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Factor + Reading
Margin = Corrected. Amplitude - Limit
The other spurious emission which is in the noise floor level was not recorded.

Test plots:

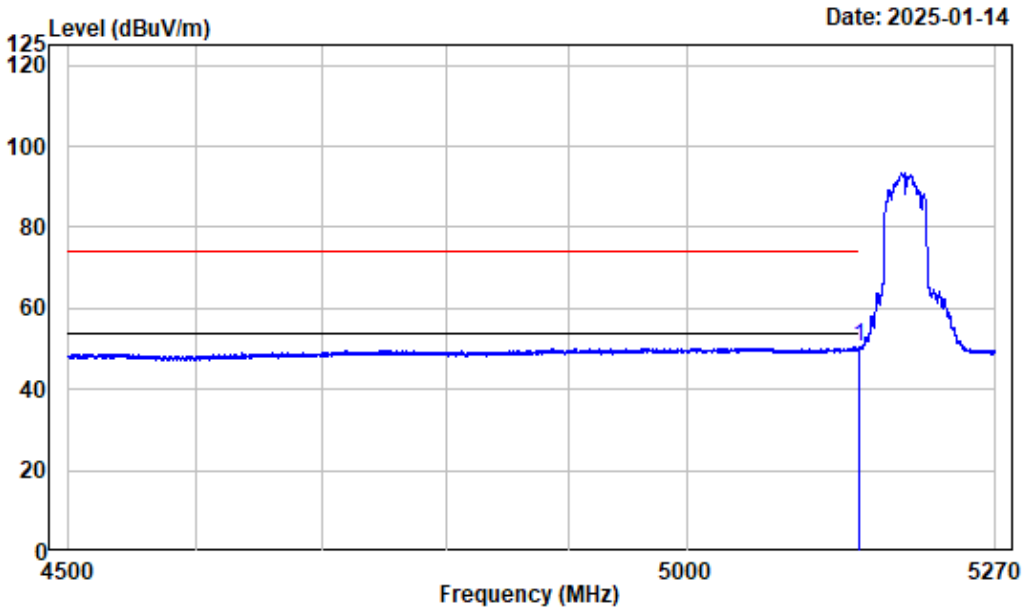
AC40-5190_Horizontal_Peak




```
Condition        : Horizontal
Project No.      : 2401Y27848E-RF
Tester           : Dylan Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note             : 5G _B1_AC40_5190
```

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5147.362	2.77	62.42	65.19	74.00	-8.81	peak
2	5150.000	2.77	60.04	62.81	74.00	-11.19	Peak

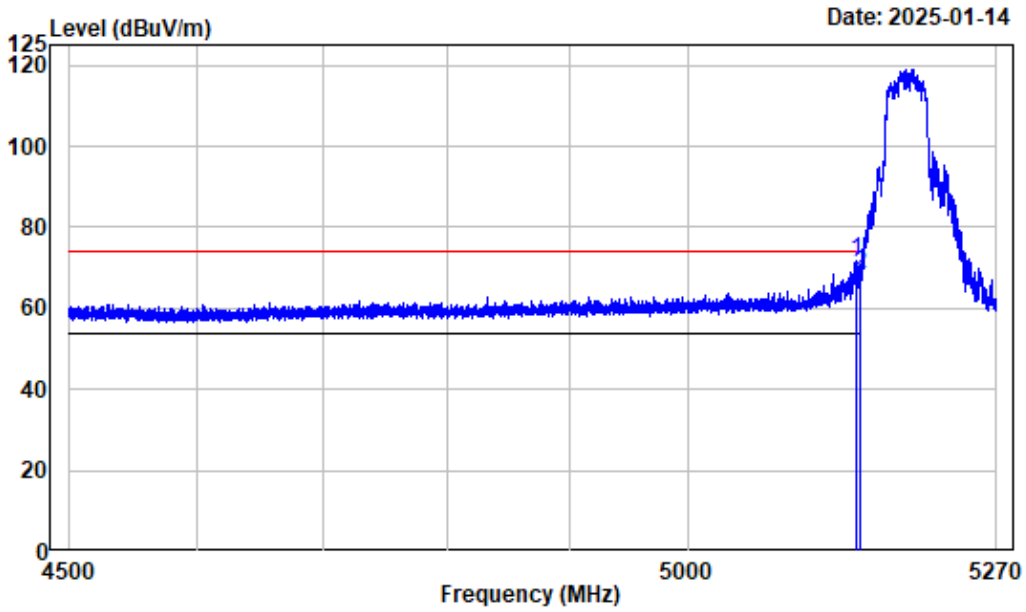
AC40-5190_Horizontal_Average



Condition : Horizontal
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Average reading: RBW:1MHz VBW:2kHz Detector:Peak
Note : 5G _B1_AC40_5190

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5150.000	2.77	47.71	50.48	54.00	-3.52	Average

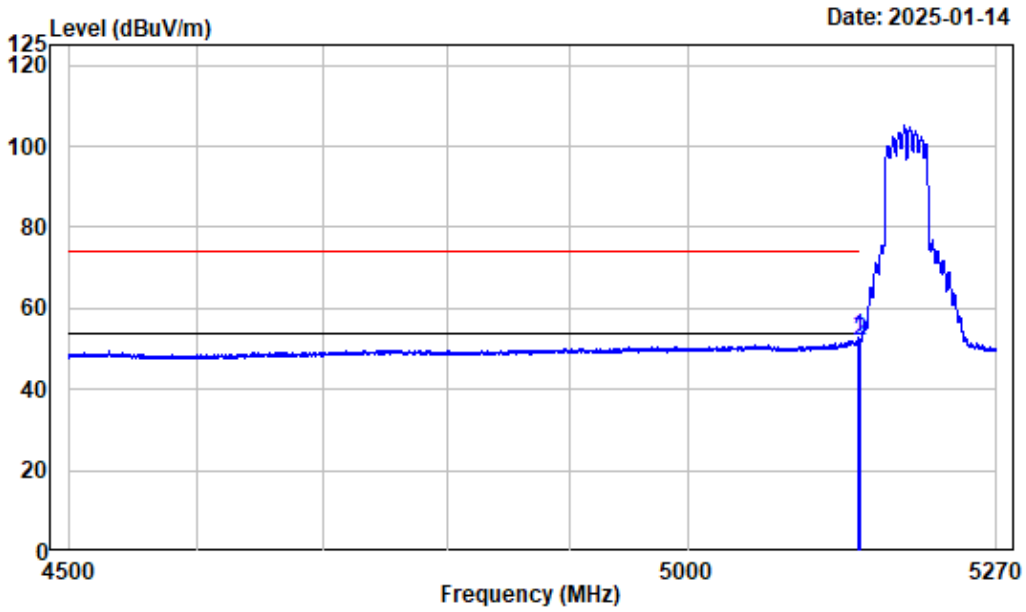
AC40-5190_Vertical_Peak



Condition : Vertical
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G _B1_AC40_5190

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5145.629	2.77	68.84	71.61	74.00	-2.39	peak
2	5150.000	2.77	65.63	68.40	74.00	-5.60	Peak

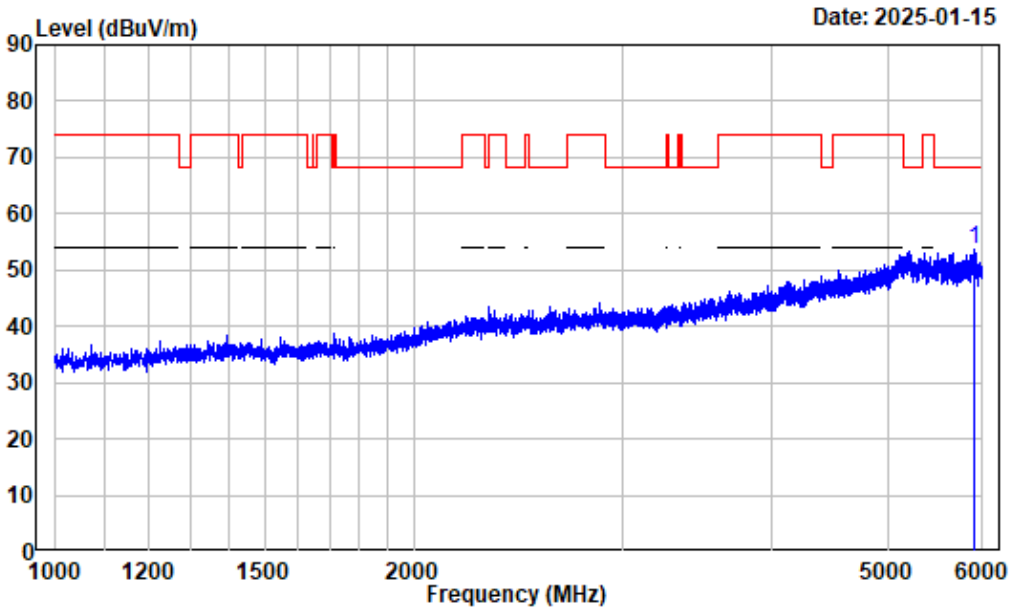
AC40-5190_Vertical_Average



Condition : Vertical
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Average reading: RBW:1MHz VBW:2kHz Detector:Peak
Note : 5G _B1_AC40_5190

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5147.940	2.77	50.23	53.00	54.00	-1.00	Average
2	5150.000	2.77	49.02	51.79	54.00	-2.21	Average

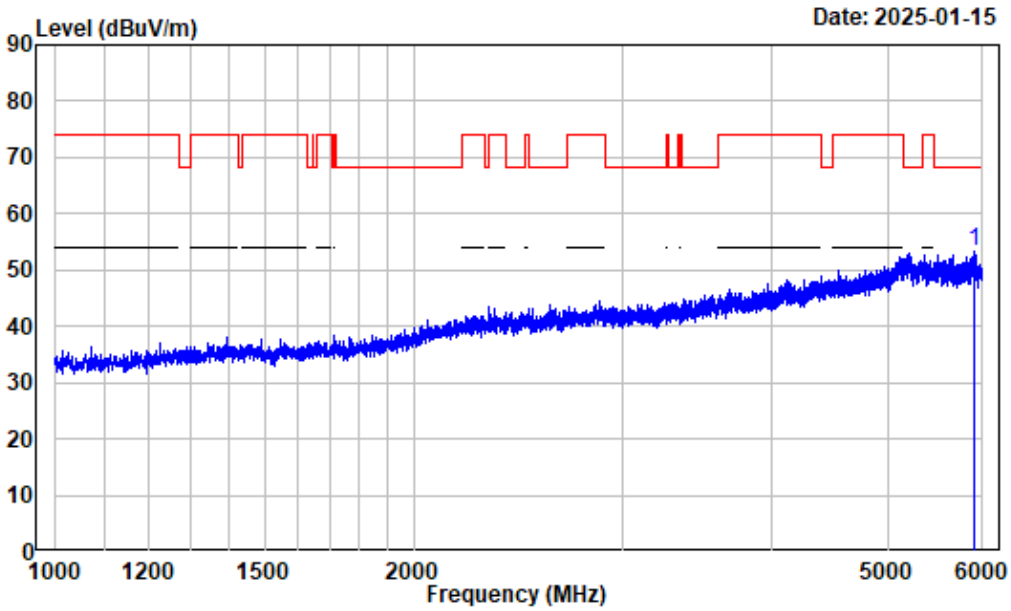
1-6GHz_Horizontal



Condition : Horizontal
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G_B2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5901.863	3.86	49.70	53.56	68.20	-14.64	Peak

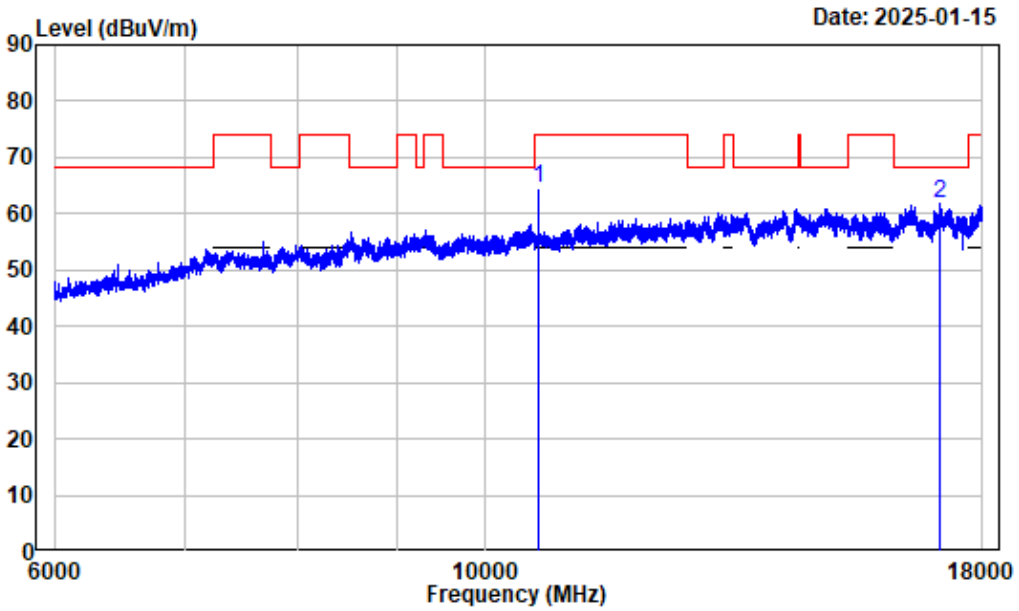
1-6GHz_Vertical



Condition : Vertical
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G_B2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	5901.863	3.86	49.30	53.16	68.20	-15.04	Peak

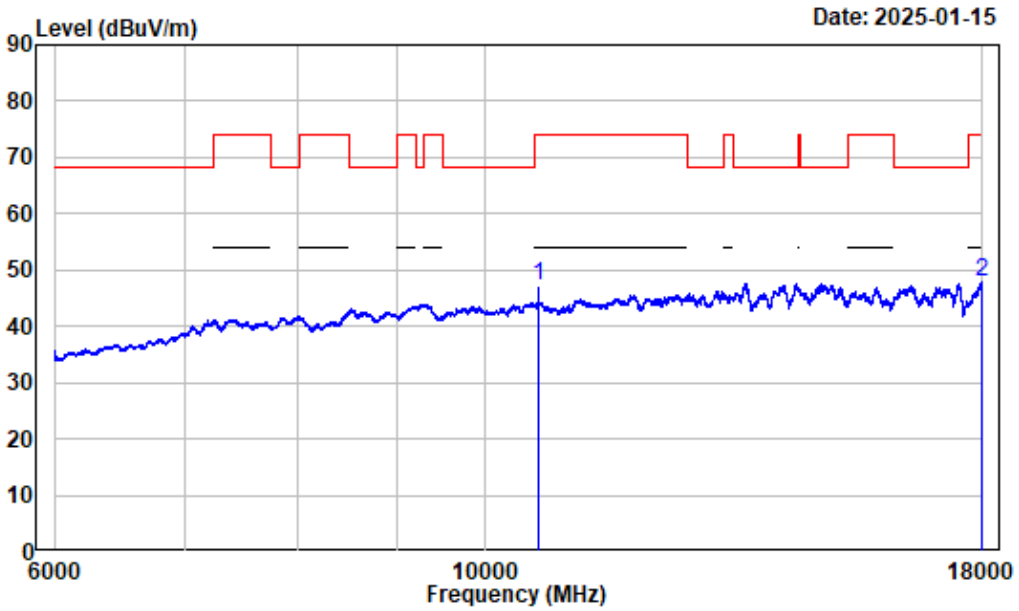
6-18GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G_B2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	13.06	51.63	64.69	74.00	-9.31	Peak
2	17110.390	18.08	43.73	61.81	68.20	-6.39	Peak

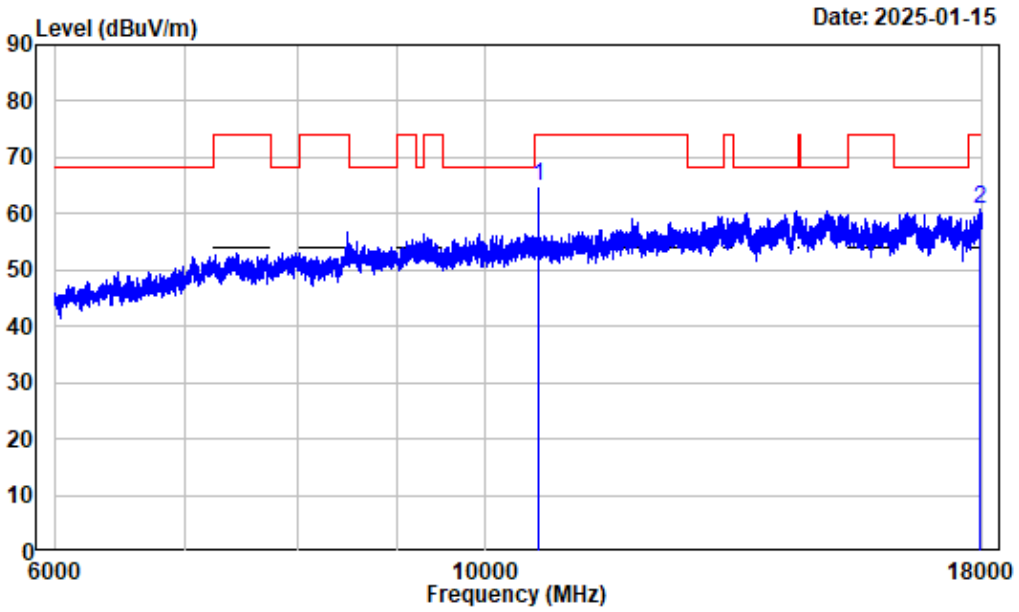
6-18GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5G_B2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	13.06	34.01	47.07	54.00	-6.93	Average
2	17998.500	24.61	23.23	47.84	54.00	-6.16	Average

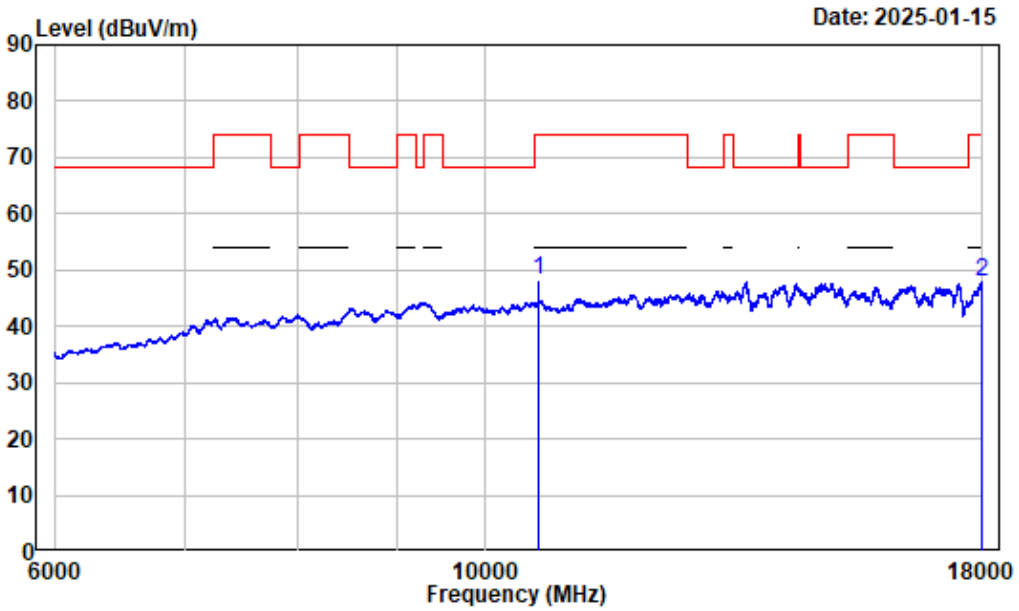
6-18GHz_Vertical_Peak



Condition : Vertical
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G_B2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	13.06	51.74	64.80	74.00	-9.20	Peak
2	17935.490	24.16	36.69	60.85	74.00	-13.15	Peak

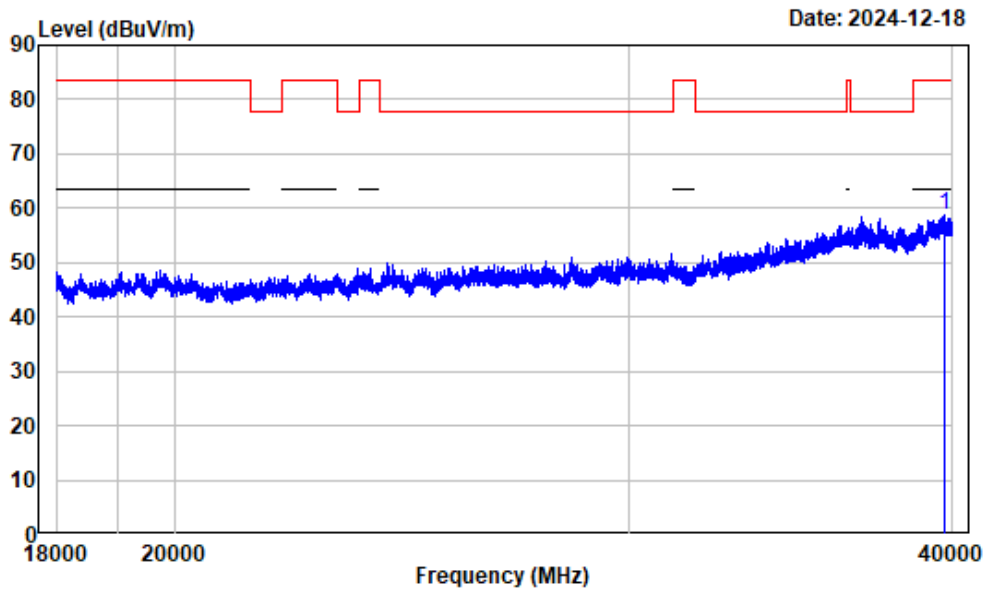
6-18GHz_Vertical_Average



Condition : Vertical
Project No. : 2401Y27848E-RF
Tester : Dylan Yang
Spectrum setting: Average reading: RBW:1MHz VBW:1kHz Detector:Peak
Note : 5G_B2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	10640.000	13.06	35.06	48.12	54.00	-5.88	Average
2	17998.500	24.61	23.23	47.84	54.00	-6.16	Average

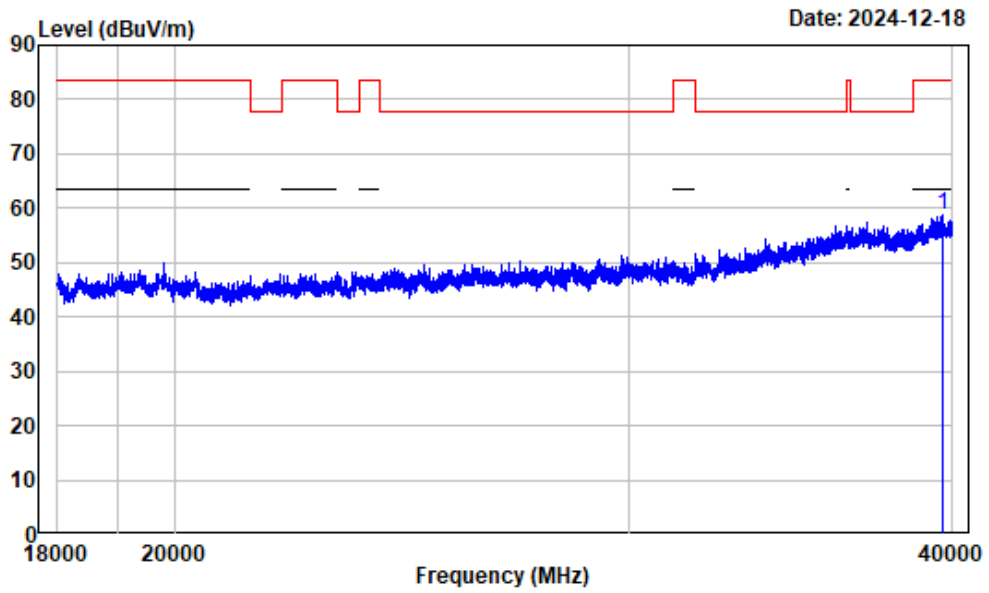
18-40GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2401Y27848E-RF
Tester : Dylan.Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G_Band2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39711.210	22.62	36.01	58.63	83.50	-24.87	Peak

18-40GHz_Vertical_Peak



Condition : Vertical
Project No. : 2401Y27848E-RF
Tester : Dylan.Yang
Spectrum setting: Peak reading: RBW:1MHz VBW:3MHz Detector:Peak
Note : 5G_Band2_ANT1_A_5320

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	39650.710	22.72	36.08	58.80	83.50	-24.70	Peak

RF Conducted data

Emission Bandwidth

Test Information:

Sample No.:	2TPH-12	**Test Date:**	2024/12/05~2024/12/06
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Allen Bai	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	24.1-26.7	**Relative Humidity: (%)**	45-59	**ATM Pressure: (kPa)**	101-101.5

Test Data:
26dB Emission Bandwidth
5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	33.786
		5200	35.015
		5240	38.777
	Chain 1	5180	29.022
		5200	35.075
		5240	36.402
	Chain 2	5180	35.734
		5200	35.355
		5240	37.632
802.11ac20	Chain 0	5180	32.536
		5200	34.632
		5240	26.256
	Chain 1	5180	33.524
		5200	31.678
		5240	29.933
	Chain 2	5180	31.618
		5200	32.577
		5240	28.602
802.11ac40	Chain 0	5190	59.655
		5230	40.941
	Chain 1	5190	56.895
		5230	40.340
	Chain 2	5190	46.547
		5230	40.641
802.11ac80	Chain 0	5210	106.666
	Chain 1	5210	**113.223**
	Chain 2	5210	98.098
802.11ax20_RU_Full	Chain 0	5180	29.213
		5200	33.808
		5240	24.357
	Chain 1	5180	30.730
		5200	33.457
		5240	27.895
	Chain 2	5180	29.185
		5200	32.509
		5240	27.505
802.11ax40_RU_Full	Chain 0	5190	43.644
		5230	39.740
	Chain 1	5190	54.124
		5230	39.940
	Chain 2	5190	49.650
		5230	39.840
802.11ax80_RU_Full	Chain 0	5210	91.692
	Chain 1	5210	94.895
	Chain 2	5210	96.496

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5260	37.299
		5280	35.072
		5320	34.899
	Chain 1	5260	34.213
		5280	29.715
		5320	29.505
	Chain 2	5260	36.101
		5280	33.537
		5320	32.238
802.11ac20	Chain 0	5260	21.860
		5280	22.226
		5320	29.504
	Chain 1	5260	22.022
		5280	21.457
		5320	27.762
	Chain 2	5260	21.698
		5280	21.981
		5320	32.315
802.11ac40	Chain 0	5270	41.341
		5310	62.242
	Chain 1	5270	40.641
		5310	44.344
	Chain 2	5270	40.641
		5310	52.365
802.11ac80	Chain 0	5290	102.707
	Chain 1	5290	105.883
	Chain 2	5290	105.171
802.11ac160	Chain 0	5250	**171.772**
	Chain 1	5250	**171.772**
	Chain 2	5250	**171.772**
802.11ax20_RU_Full	Chain 0	5260	22.399
		5280	22.624
		5320	29.537
	Chain 1	5260	21.685
		5280	22.038
		5320	28.059
	Chain 2	5260	22.233
		5280	22.088
		5320	27.136
802.11ax40_RU_Full	Chain 0	5270	39.940
		5310	49.650
	Chain 1	5270	39.840
		5310	50.702
	Chain 2	5270	39.840
		5310	49.249
802.11ax80_RU_Full	Chain 0	5290	92.292
	Chain 1	5290	81.481
	Chain 2	5290	96.296
802.11ax160_RU_Full	Chain 0	5250	163.363
	Chain 1	5250	164.565
	Chain 2	5250	163.764

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5500	29.598
		5580	31.548
		5700	28.313
		5720	37.323
	Chain 1	5500	29.853
		5580	34.376
		5700	28.450
		5720	34.630
	Chain 2	5500	29.736
		5580	33.885
		5700	24.480
		5720	26.501
802.11ac20	Chain 0	5500	28.464
		5580	21.864
		5700	28.201
		5720	22.339
	Chain 1	5500	27.630
		5580	21.301
		5700	27.067
		5720	21.515
	Chain 2	5500	28.900
		5580	21.502
		5700	27.995
		5720	21.689
802.11ac40	Chain 0	5510	58.669
		5550	41.241
		5670	65.547
		5710	41.041
	Chain 1	5510	45.946
		5550	40.841
		5670	62.876
		5710	40.440
	Chain 2	5510	49.950
		5550	40.941
		5670	57.505
		5710	40.841
802.11ac80	Chain 0	5530	105.862
		5610	80.480
		5690	80.480
	Chain 1	5530	99.900
		5610	80.280
		5690	80.080
	Chain 2	5530	99.099
		5610	80.080
		5690	80.080
802.11ac160	Chain 0	5570	168.969
	Chain 1	5570	170.571
	Chain 2	5570	164.565

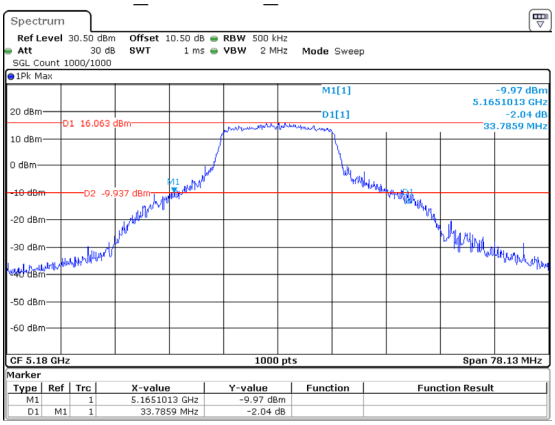
Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11ax20_RU_Full	Chain 0	5500	27.377
		5580	22.725
		5700	22.725
		5720	22.324
	Chain 1	5500	26.155
		5580	21.856
		5700	26.534
		5720	22.366
	Chain 2	5500	25.597
		5580	21.889
		5700	25.792
		5720	22.668
802.11ax40_RU_Full	Chain 0	5510	47.347
		5550	39.840
		5670	55.018
		5710	39.740
	Chain 1	5510	51.130
		5550	39.940
		5670	55.259
		5710	39.740
	Chain 2	5510	53.072
		5550	39.840
		5670	64.952
		5710	39.740
802.11ax80_RU_Full	Chain 0	5530	97.097
		5610	80.881
		5690	80.681
	Chain 1	5530	92.693
		5610	80.681
		5690	80.881
	Chain 2	5530	97.297
		5610	80.881
		5690	80.881
802.11ax160_RU_Full	Chain 0	5570	163.363
	Chain 1	5570	163.363
	Chain 2	5570	**173.774**

6dB Emission Bandwidth
5725-5850MHz

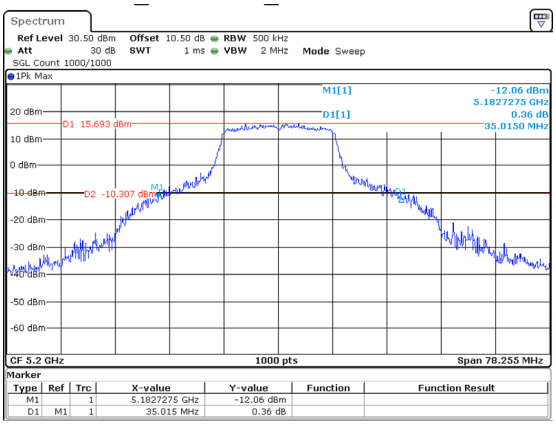
Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	16.366	0.5	Pass
		5785	16.416	0.5	Pass
		5825	16.366	0.5	Pass
	Chain 1	5745	16.416	0.5	Pass
		5785	16.416	0.5	Pass
		5825	16.416	0.5	Pass
	Chain 2	5745	16.416	0.5	Pass
		5785	16.416	0.5	Pass
		5825	16.366	0.5	Pass
802.11ac20	Chain 0	5745	17.668	0.5	Pass
		5785	17.217	0.5	Pass
		5825	16.366	0.5	Pass
	Chain 1	5745	17.668	0.5	Pass
		5785	17.668	0.5	Pass
		5825	17.668	0.5	Pass
	Chain 2	5745	17.668	0.5	Pass
		5785	17.668	0.5	Pass
		5825	17.668	0.5	Pass
802.11ac40	Chain 0	5755	35.235	0.5	Pass
		5795	35.335	0.5	Pass
	Chain 1	5755	35.235	0.5	Pass
		5795	35.335	0.5	Pass
	Chain 2	5755	35.235	0.5	Pass
		5795	35.235	0.5	Pass
802.11ac80	Chain 0	5775	75.475	0.5	Pass
	Chain 1	5775	75.475	0.5	Pass
	Chain 2	5775	75.475	0.5	Pass
802.11ax20_RU_Full	Chain 0	5745	18.919	0.5	Pass
		5785	18.869	0.5	Pass
		5825	18.819	0.5	Pass
	Chain 1	5745	18.869	0.5	Pass
		5785	18.969	0.5	Pass
		5825	18.869	0.5	Pass
	Chain 2	5745	18.869	0.5	Pass
		5785	18.819	0.5	Pass
		5825	18.719	0.5	Pass
802.11ax40_RU_Full	Chain 0	5755	35.235	0.5	Pass
		5795	36.136	0.5	Pass
	Chain 1	5755	35.936	0.5	Pass
		5795	35.335	0.5	Pass
	Chain 2	5755	36.637	0.5	Pass
		5795	36.436	0.5	Pass
802.11ax80_RU_Full	Chain 0	5775	**76.076**	0.5	Pass
	Chain 1	5775	75.475	0.5	Pass
	Chain 2	5775	75.475	0.5	Pass

5150-5250MHz

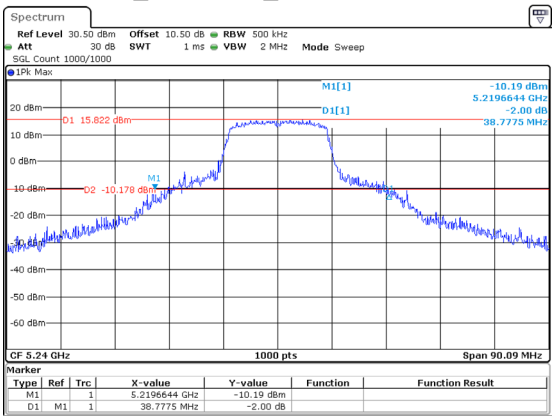
802.11a_5180MHz_Chain 0 33.786MHz



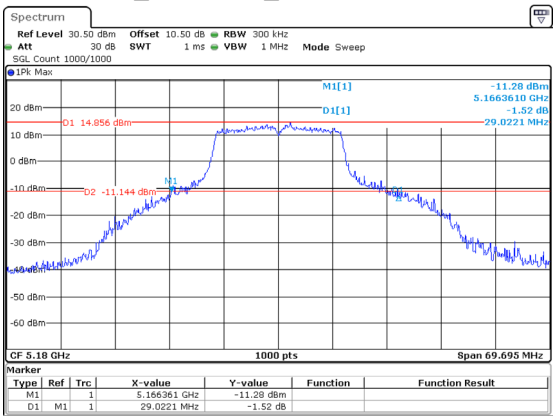
802.11a_5200MHz_Chain 0 35.015MHz



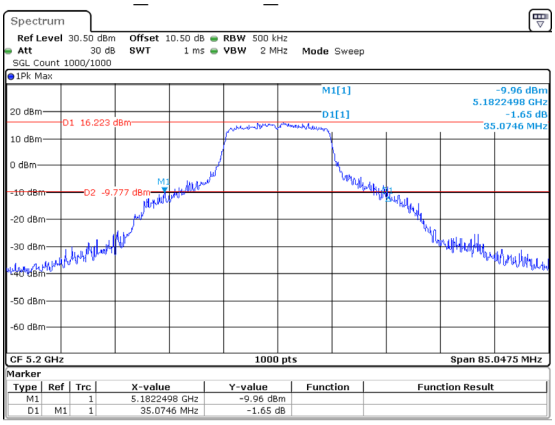
802.11a_5240MHz_Chain 0 38.777MHz



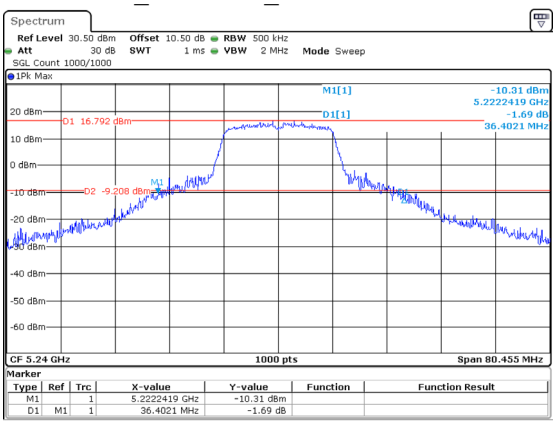
802.11a_5180MHz_Chain 1 29.022MHz



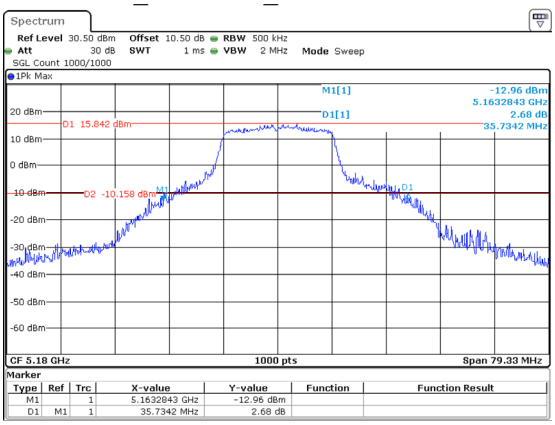
802.11a_5200MHz_Chain 1 35.075MHz



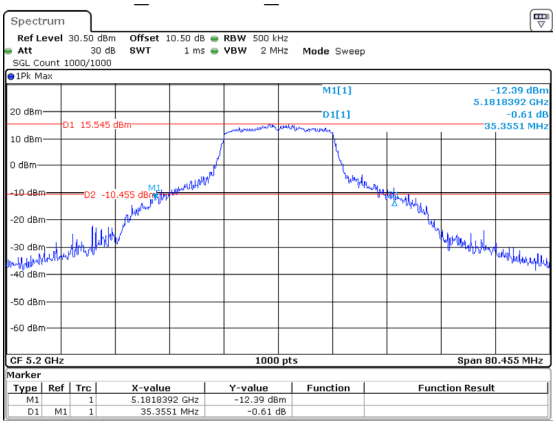
802.11a_5240MHz_Chain 1 36.402MHz



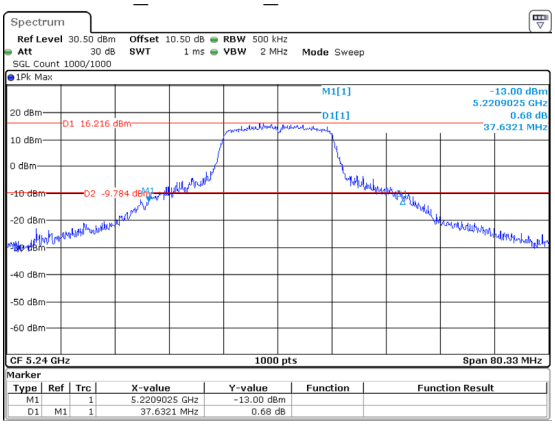
802.11a_5180MHz_Chain 2 35.734MHz



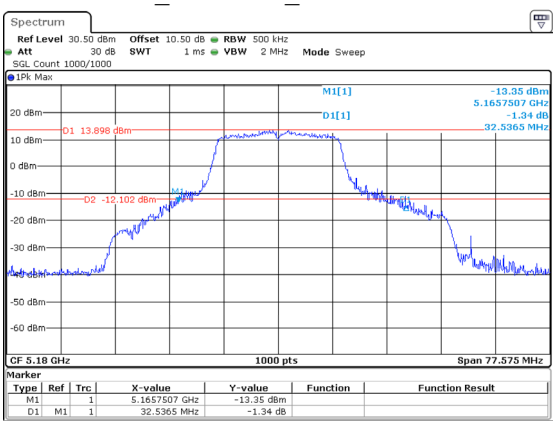
802.11a_5200MHz_Chain 2 35.355MHz



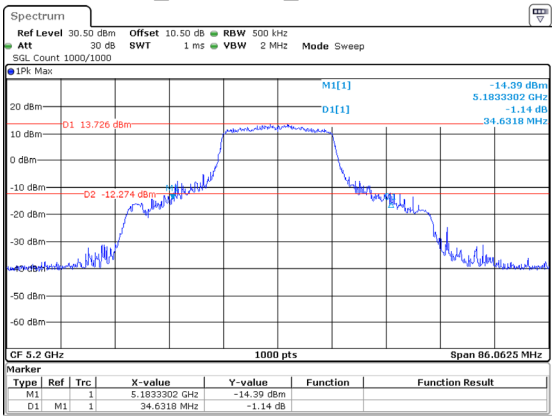
802.11a_5240MHz_Chain 2 37.632MHz



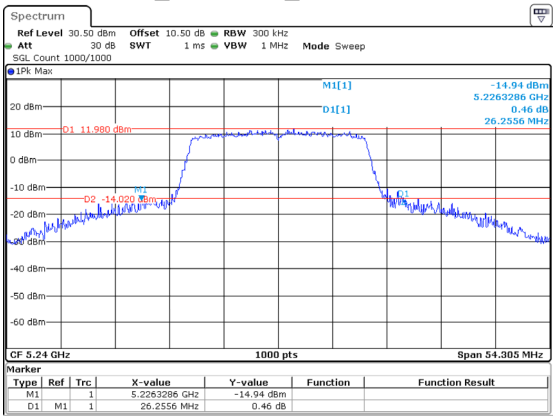
802.11ac20_5180MHz_Chain 0 32.536MHz



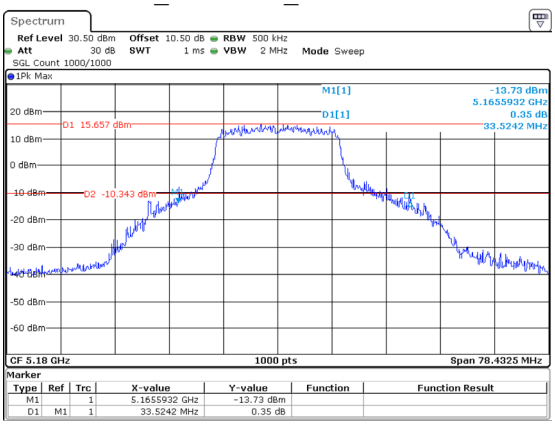
802.11ac20_5200MHz_Chain 0 34.632MHz



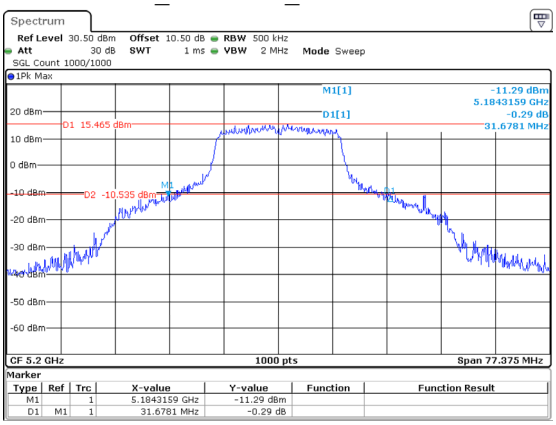
802.11ac20_5240MHz_Chain 0 26.256MHz



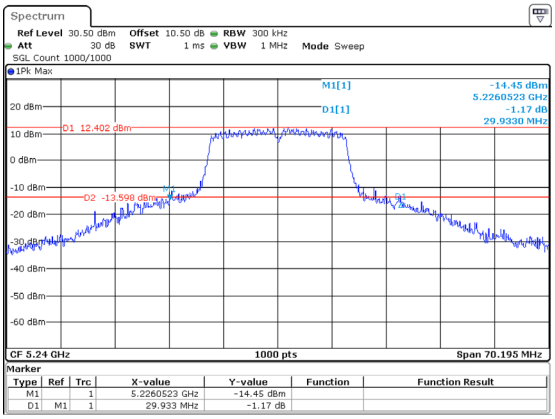
802.11ac20_5180MHz_Chain 1 33.524MHz



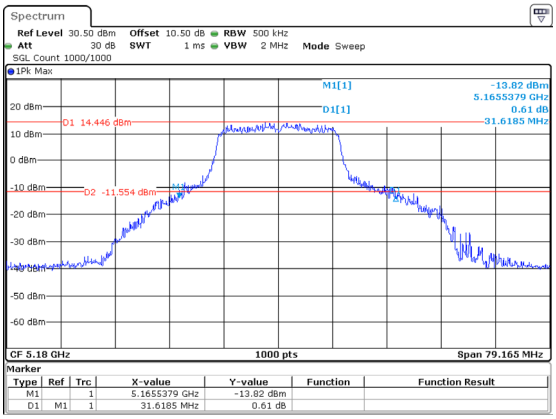
802.11ac20_5200MHz_Chain 1 31.678MHz



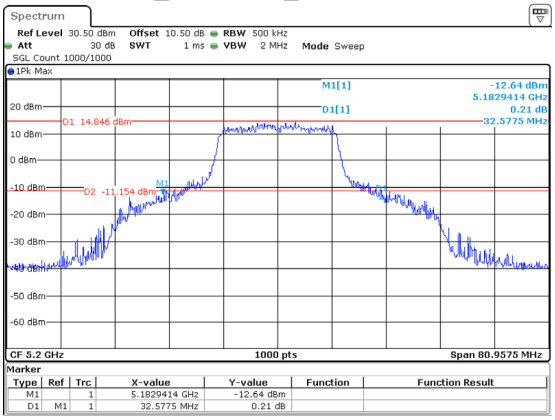
802.11ac20_5240MHz_Chain 1 29.933MHz



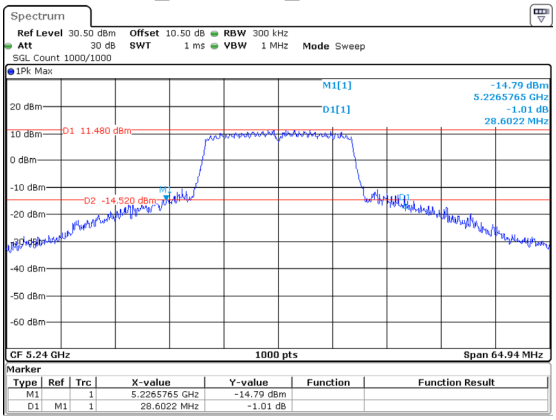
802.11ac20_5180MHz_Chain 2 31.618MHz



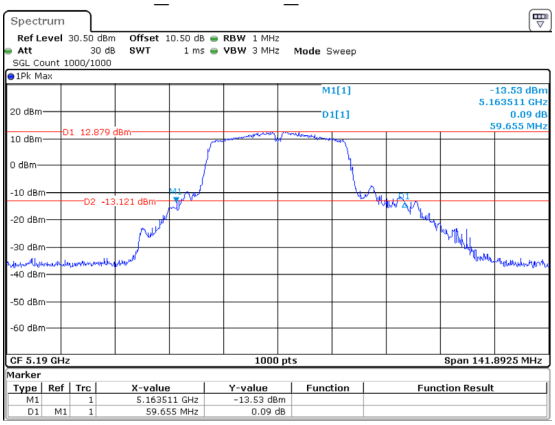
802.11ac20_5200MHz_Chain 2 32.577MHz



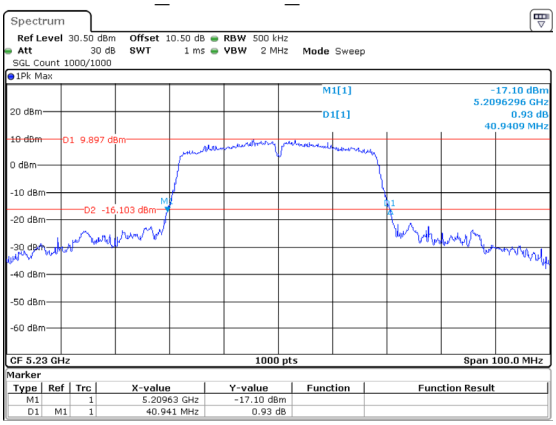
802.11ac20_5240MHz_Chain 2 28.602MHz



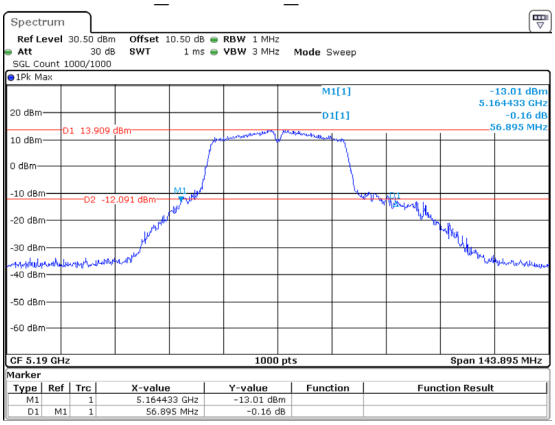
802.11ac40_5190MHz_Chain 0 59.655MHz



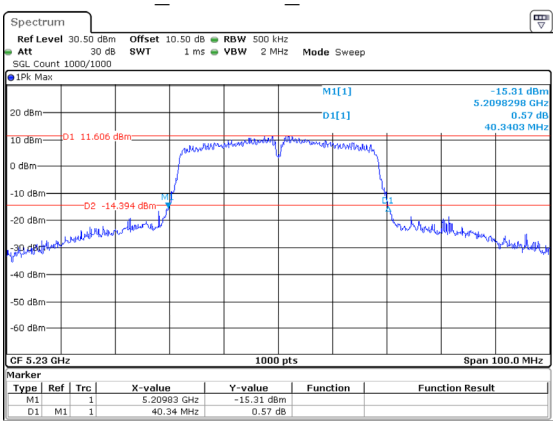
802.11ac40_5230MHz_Chain 0 40.941MHz



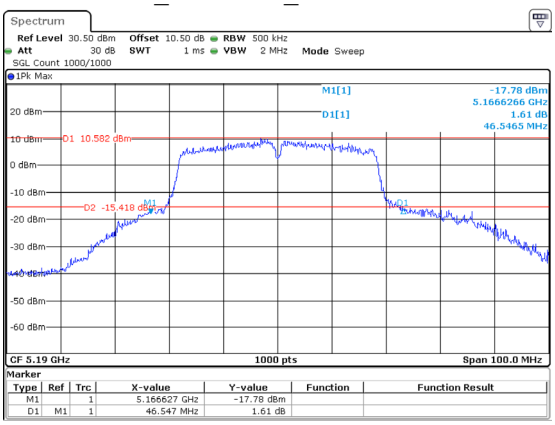
802.11ac40_5190MHz_Chain 1 56.895MHz



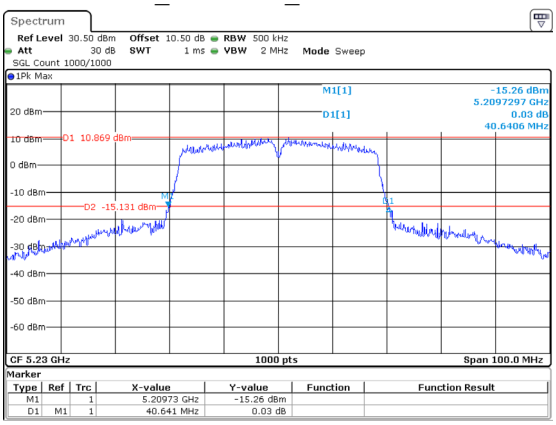
802.11ac40_5230MHz_Chain 1 40.340MHz



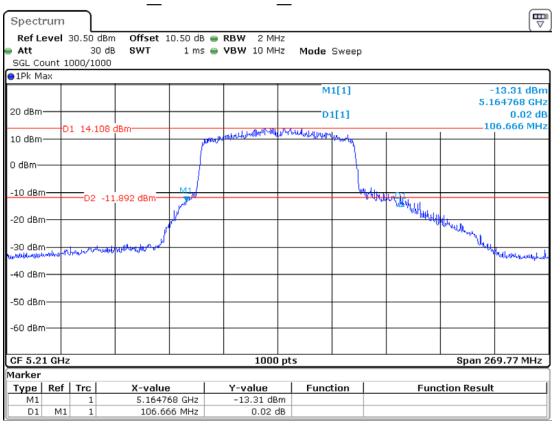
802.11ac40_5190MHz_Chain 2 46.547MHz



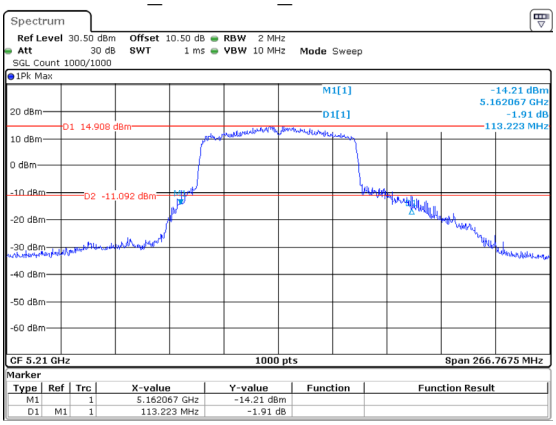
802.11ac40_5230MHz_Chain 2 40.641MHz



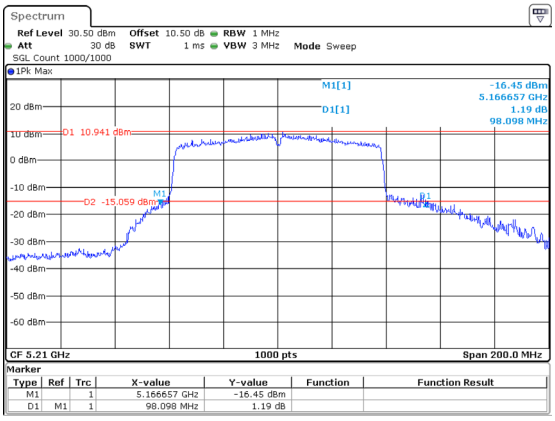
802.11ac80_5210MHz_Chain 0 106.666MHz



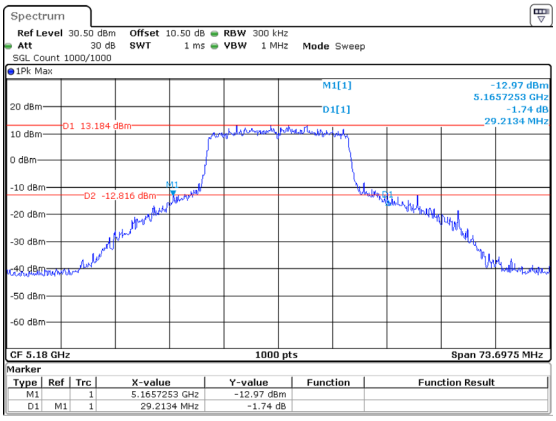
802.11ac80_5210MHz_Chain 1 113.223MHz



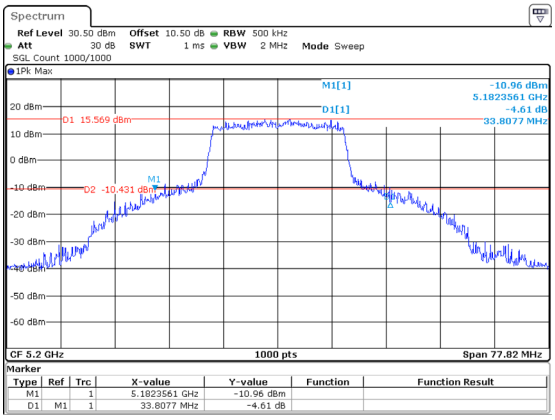
802.11ac80_5210MHz_Chain 2 98.098MHz



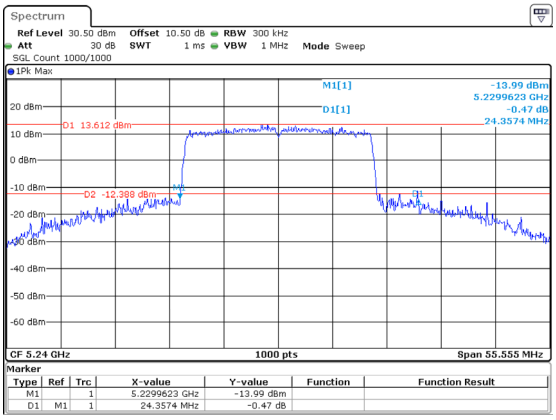
802.11ax20_5180MHz_RU_Full_Chain 0 29.213MHz



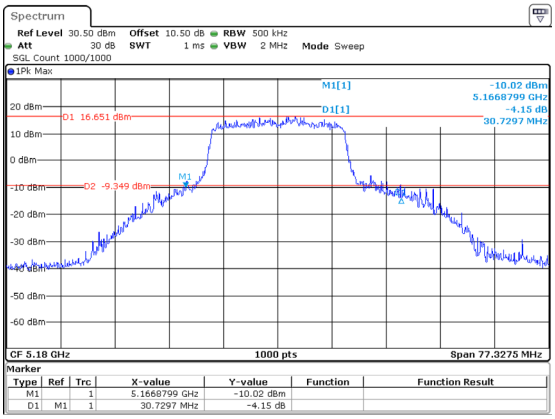
802.11ax20_5200MHz_RU_Full_Chain 0 33.808MHz



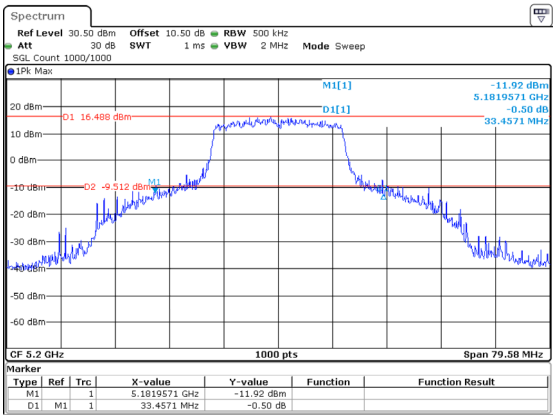
802.11ax20_5240MHz_RU_Full_Chain 0 24.357MHz



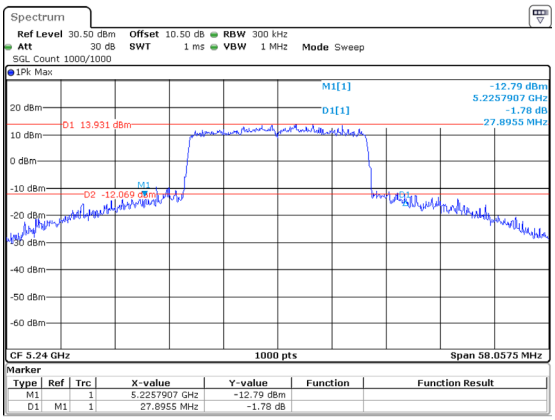
802.11ax20_5180MHz_RU_Full_Chain 1
30.730MHz



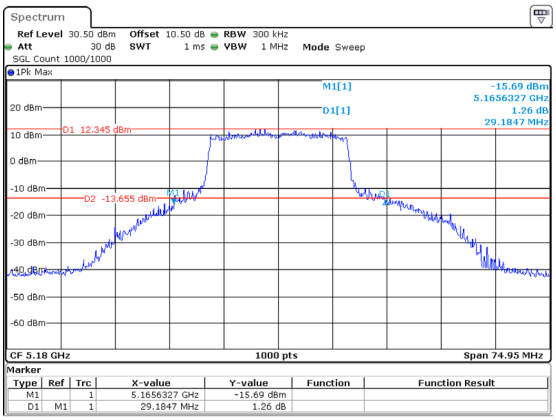
802.11ax20_5200MHz_RU_Full_Chain 1
33.457MHz



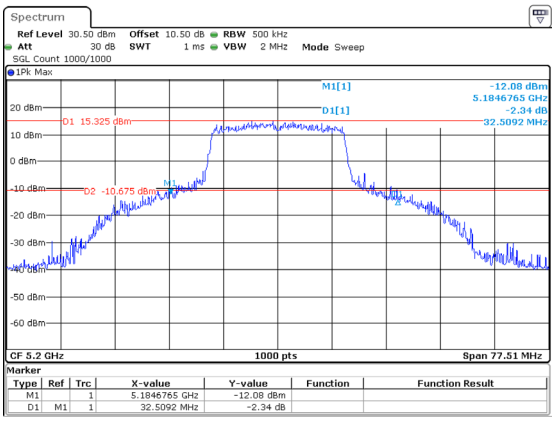
802.11ax20_5240MHz_RU_Full_Chain 1
27.895MHz



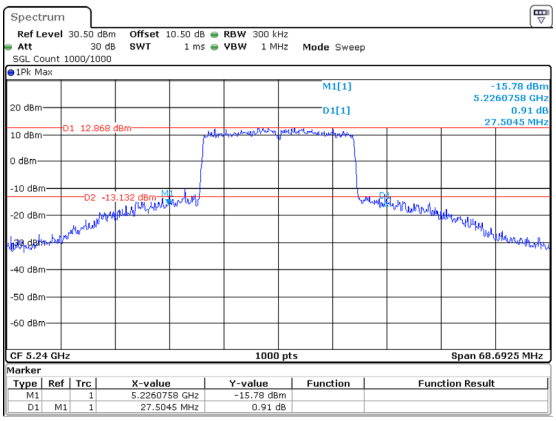
802.11ax20_5180MHz_RU_Full_Chain 2
29.185MHz



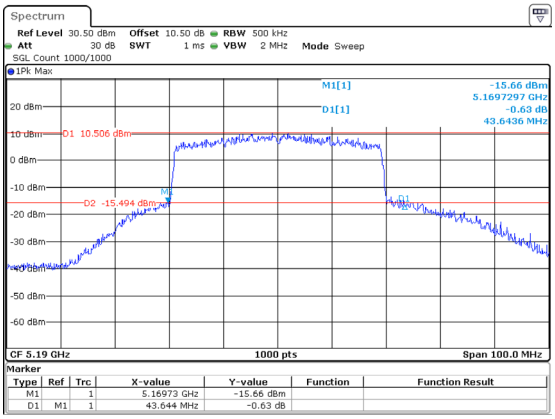
802.11ax20_5200MHz_RU_Full_Chain 2
32.509MHz



802.11ax20_5240MHz_RU_Full_Chain 2
27.505MHz

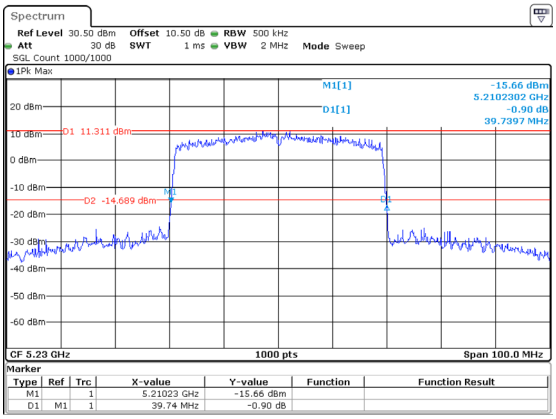


802.11ax40_5190MHz_RU_Full_Chain 0
43.644MHz



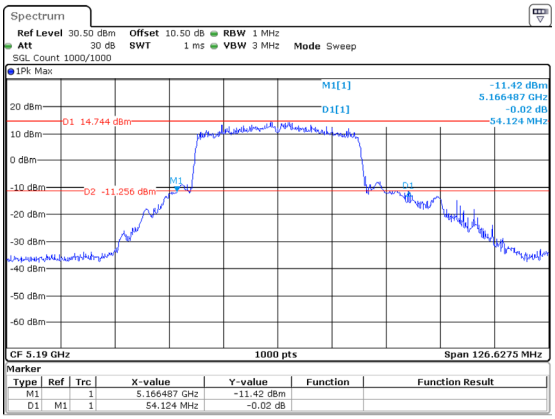
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 5.DEC.2024 17:15:45

802.11ax40_5230MHz_RU_Full_Chain 0
39.740MHz



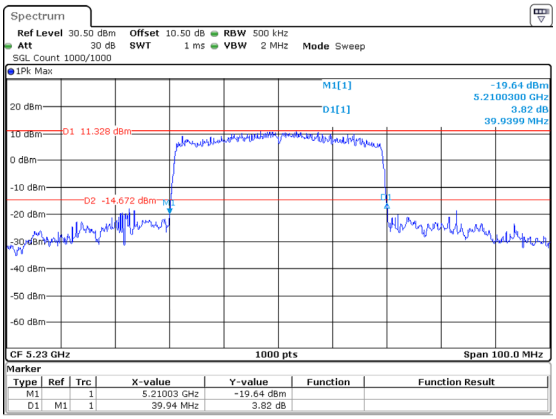
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 5.DEC.2024 17:16:54

802.11ax40_5190MHz_RU_Full_Chain 1
54.124MHz



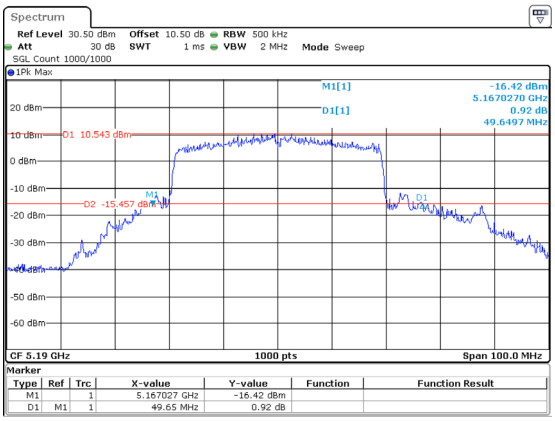
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 6.DEC.2024 10:27:21

802.11ax40_5230MHz_RU_Full_Chain 1
39.940MHz



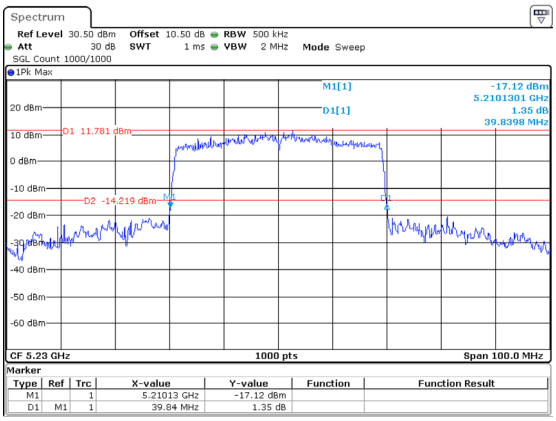
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 6.DEC.2024 10:28:18

802.11ax40_5190MHz_RU_Full_Chain 2
49.650MHz



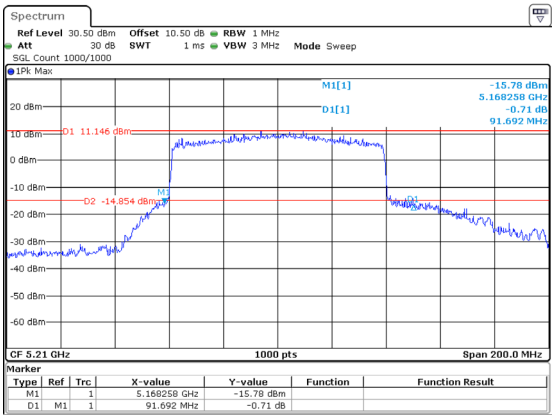
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 6.DEC.2024 14:09:59

802.11ax40_5230MHz_RU_Full_Chain 2
39.840MHz

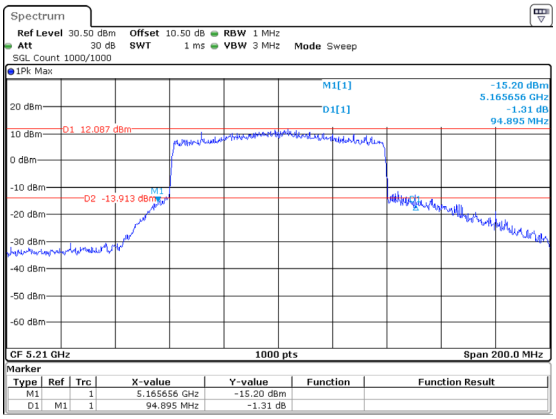


ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 6.DEC.2024 14:18:33

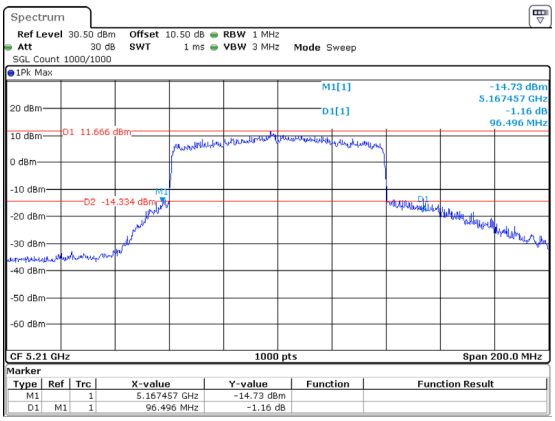
802.11ax80_5210MHz_RU_Full_Chain 0
91.692MHz



802.11ax80_5210MHz_RU_Full_Chain 1
94.895MHz

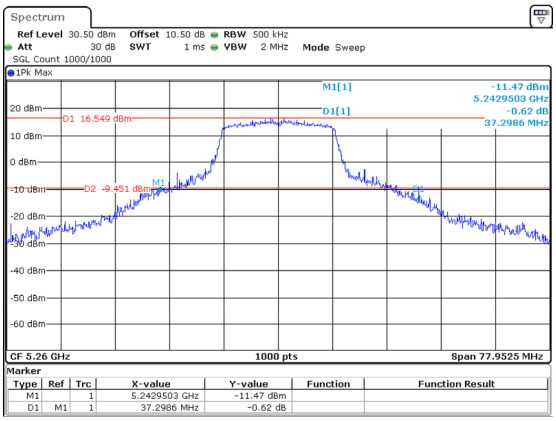


802.11ax80_5210MHz_RU_Full_Chain 2
96.496MHz

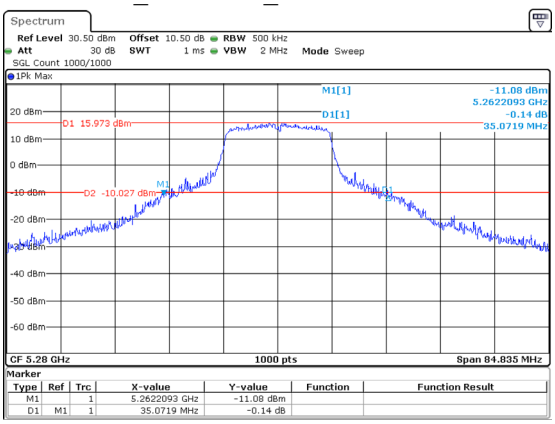


5250-5350MHz

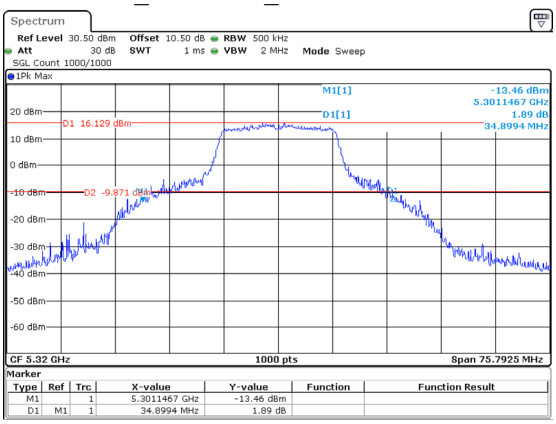
802.11a_5260MHz_Chain 0 37.299MHz



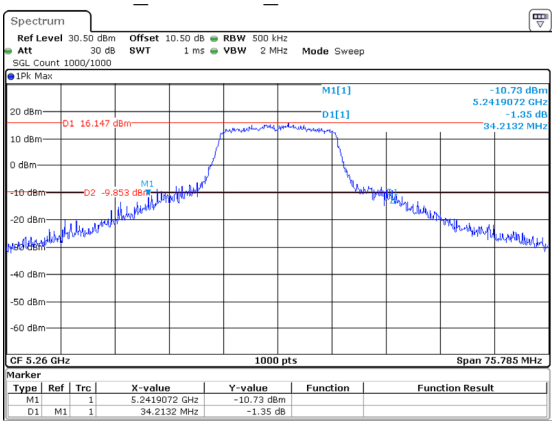
802.11a_5280MHz_Chain 0 35.072MHz



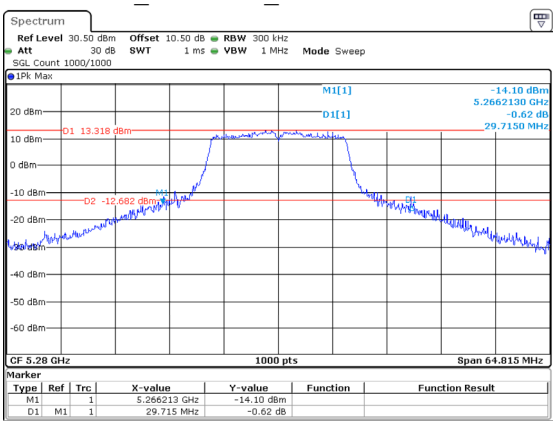
802.11a_5320MHz_Chain 0 34.899MHz



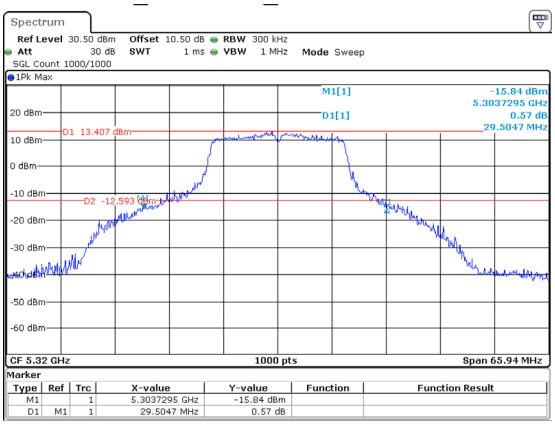
802.11a_5260MHz_Chain 1 34.213MHz



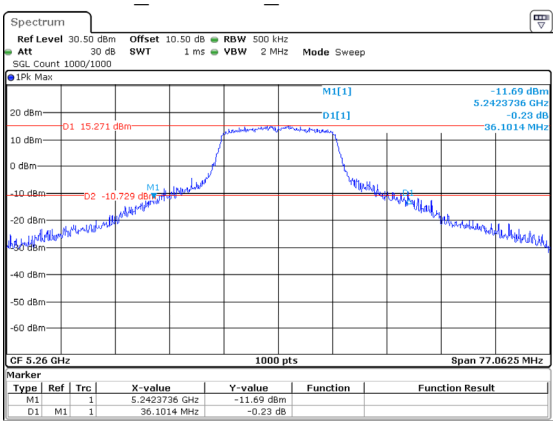
802.11a_5280MHz_Chain 1 29.715MHz



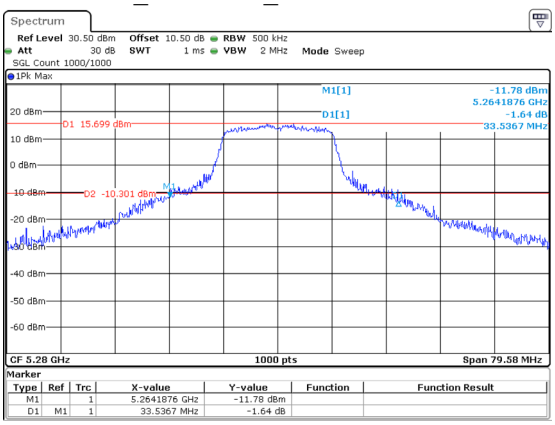
802.11a_5320MHz_Chain 1 29.505MHz



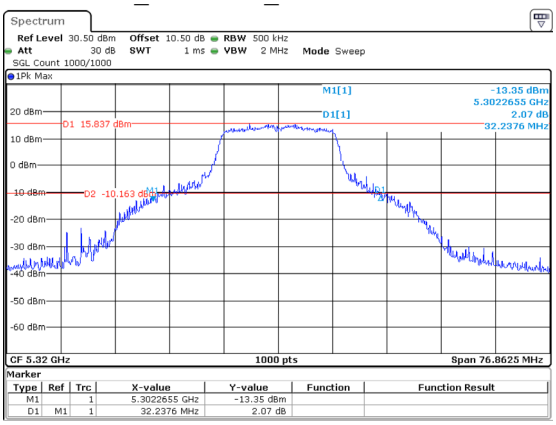
802.11a_5260MHz_Chain 2 36.101MHz



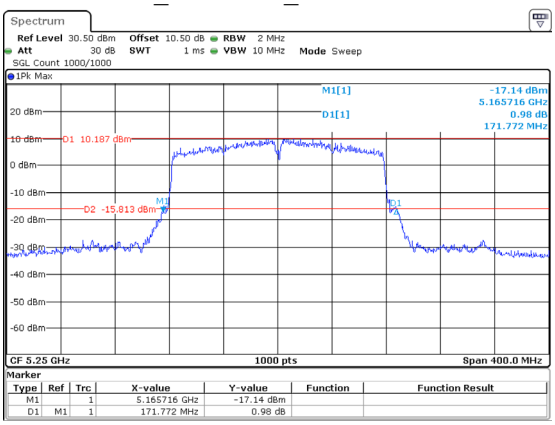
802.11a_5280MHz_Chain 2 33.537MHz



802.11a_5320MHz_Chain 2 32.238MHz

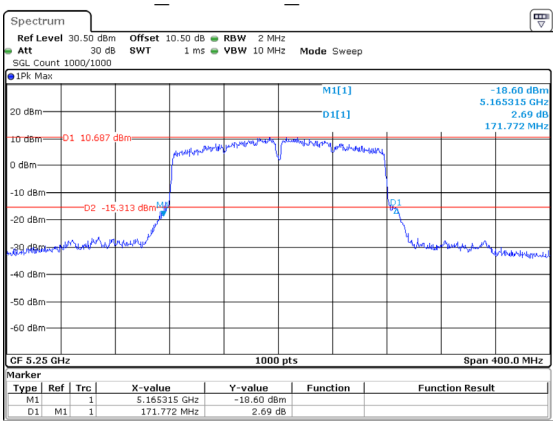


802.11ac160_5250MHz_Chain 0 171.772MHz



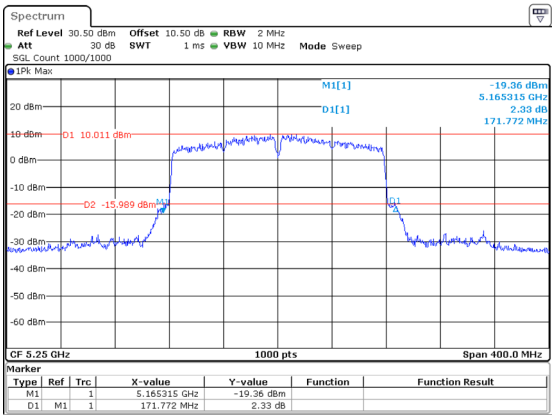
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 5.DEC.2024 18:05:44

802.11ac160_5250MHz_Chain 1 171.772MHz



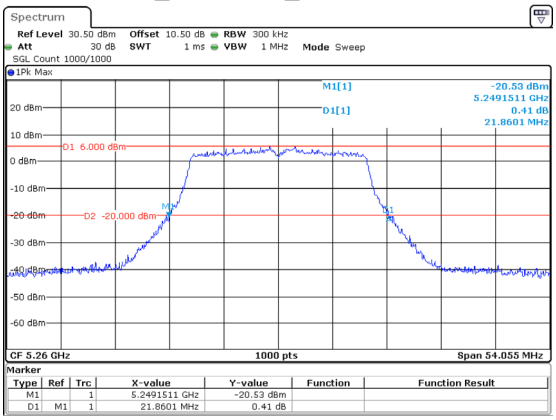
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 6.DEC.2024 10:42:24

802.11ac160_5250MHz_Chain 2 171.772MHz



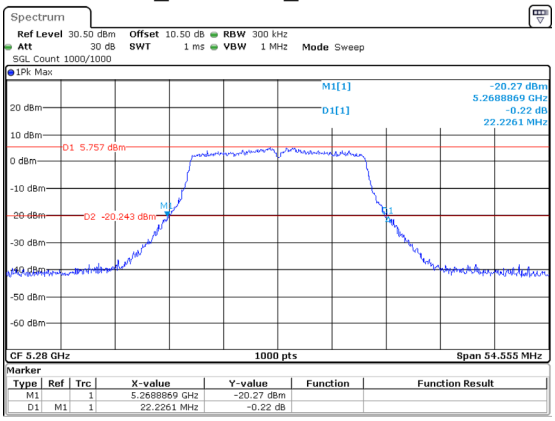
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 6.DEC.2024 14:33:26

802.11ac20_5260MHz_Chain 0 21.860MHz



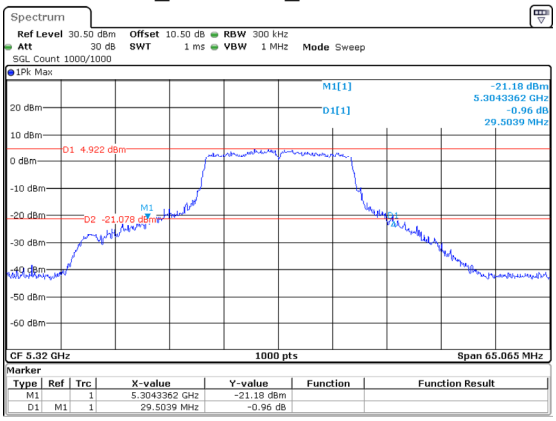
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 5.DEC.2024 17:44:44

802.11ac20_5280MHz_Chain 0 22.226MHz



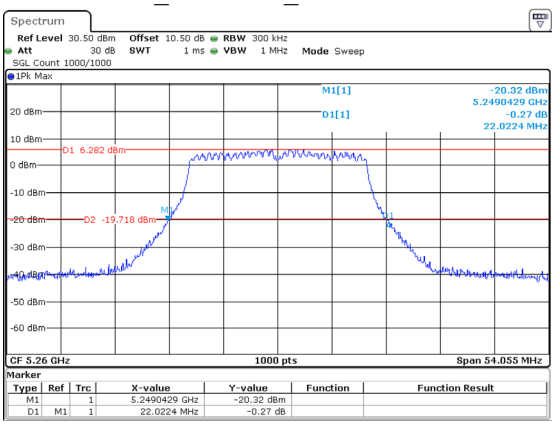
ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 5.DEC.2024 17:46:01

802.11ac20_5320MHz_Chain 0 29.504MHz

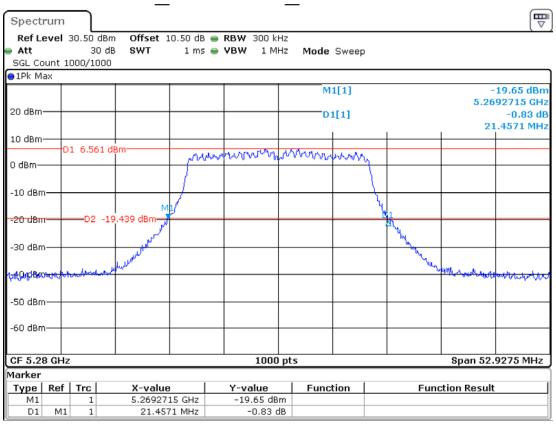


ProjectNo.:2401Y27848E-RF Tester:Allen Bai
Date: 5.DEC.2024 17:47:19

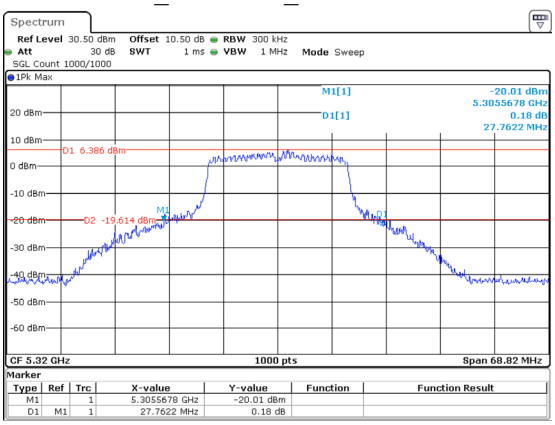
802.11ac20_5260MHz_Chain 1 22.022MHz



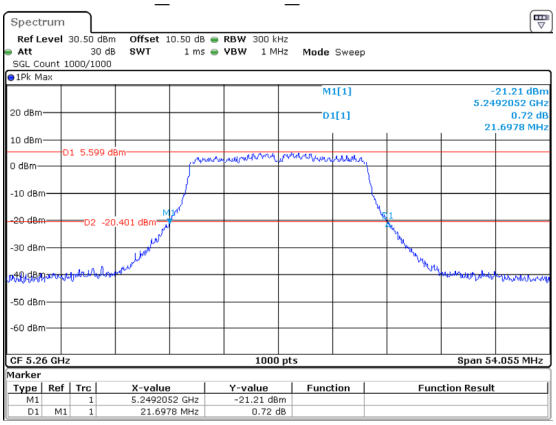
802.11ac20_5280MHz_Chain 1 21.457MHz



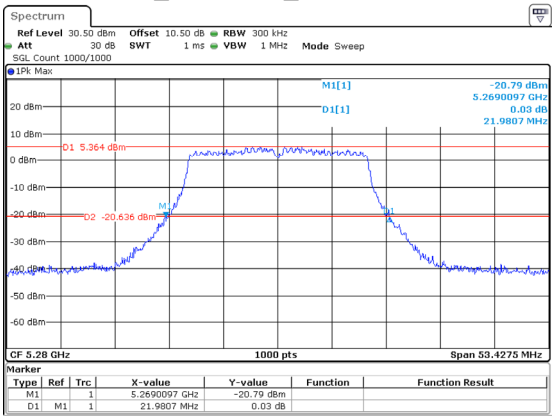
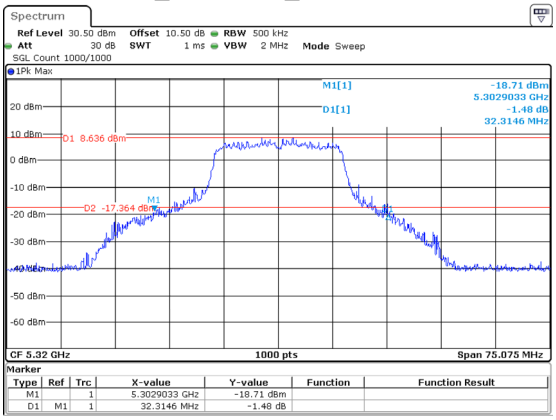
802.11ac20_5320MHz_Chain 1 27.762MHz



802.11ac20_5260MHz_Chain 2 21.698MHz



802.11ac20_5280MHz_Chain 2 21.981MHz



802.11ac20_5320MHz_Chain 2 32.315MHz