TEST REPORT

Applicant Name :	Thundercomm Technology Co., Ltd
Address :	No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Report Number :	SZNS220928-44462E-RF-00C
FCC ID:	2AOHHTURBOX-C6490

Test Standard (s)

FCC PART 15.407

Sample Description

Product Type:	C6490
Model No.:	C6490-U4A
Multiple Model(s) No.:	C6490-U46,C6490-U4AS,C6490-U46S
Trade Mark:	TurboX
Date Received:	2022/09/28
Report Date:	2023/06/06

Test Result:	Pass*

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

Prepared and Checked By:

Andy Yu
EMC Engineer

Approved By:

Candy Li
EMC Engineer

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	SZNS220928-44462E-RF-00C	Original Report	2023-03-26
1	SZNS220928-44462E-RF-00C	Update report according to PAG response	2023-06-06

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	C6490
Tested Model	C6490-U4A
Multiple Models	C6490-U46,C6490-U4AS,C6490-U46S (model difference see product declaration letter of similarity)
Frequency Range	5G Wi-Fi: 5150~5250MHz ; 5250-5350MHz ;5470-5725MHz ; 5725~5850 MHz; 5850~5895 MHz
Device Type	Client Device
Mode	802.11a/n20/n40/ac20/ac40/ac80/ac160/ax20/ax40/ax80/ax160
Maximum Conducted Average Output Power	5150-5250MHz: 18.12dBm 5250-5350MHz: 18.59dBm 5470-5725MHz: 18.16dBm 5725-5850MHz: 15.59dBm 5850-5895MHz: 17.92dBm
Modulation Technique	OFDM, OFDMA
Antenna Specification*	2.6dBi (It is provided by the applicant)
Voltage Range	DC 3.8V
Sample serial number	SZNS220928-44462E-RF-S1 for Conducted and Radiated Emissions Test SZNS220928-44462E-RF-S2 RF conducted Test (Assigned by ATC)
Sample/EUT Status	Good condition
Note: Pre-scan all models, the worst case model C6490-U4A was selected to test.	

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 Shenzhen Accurate Technology Co., Ltd. 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		5%
RF Frequency		$0.082*10^{-7}$
RF output power, conducted		0.73dB
Unwanted Emission, conducted		1.6dB
AC Power Lines Conducted Emissions		2.72dB
Emissions, Radiated	9kHz - 30MHz	2.66dB
	30MHz - 1GHz	4.28dB
	1GHz - 18GHz	4.98dB
	18GHz - 26.5GHz	5.06dB
	26.5GHz - 40GHz	4.72dB
Temperature		1℃
Humidity		6%
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

Test Site 1:
The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

Test Site 2:
The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 429 7.01.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016.

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/n20/ac20/ax20 mode: channel 36, 40, 48 were tested for 5150-5250MHz band, channel 52, 56, 64 were tested for 5250-5350MHz band;
For 802.11n40/ac40/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, 19 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	122	5610
102	5510	124	5620
104	5520	126	5630
106	5530	128	5640
108	5540	132	5660
110	5550	134	5670
112	5560	136	5680
114	5570	140	5700
116	5580	/	/
118	5590	/	/
120	5600	/	/

For 802.11a, 802.11n20/ac20/ax20 mode: channel 100, 116, 140 were tested;
For 802.11n40/ac40/ax40 mode: channel 102, 110, 134 were tested.
For 802.11ac80/ax80 mode, channel 106, 122 were tested.
For 802.11ac160/ax160 mode, channel 114 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/n20/ac20/ax20 mode: channel 149, 157, 165 were tested;
For 802.11n40/ac40/ax40 mode: channel 151, 159 were tested;
For 802.11ac80/ax80 mode, channel 155 was tested

For 5850-5895MHz band, 5725-5850MHz & 5850-5895MHz bands span channels: 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
163	5815	173	5865
167	5835	175	5875
169	5845	177	5885
171	5855	/	/

For 802.11a/n20/ac20/ax20 mode: channel 169, 173, 177 were tested;
For 802.11n40/ac40/ax40 mode: channel 167, 175 were tested;
For 802.11ac80/ax80 mode, channel 171 was tested
For 802.11ac160/ax160 mode, channel 163 was tested.

EUT Exercise Software

"QRCT *" exercise software was used. The software and power level was provided by the applicant.

The worst case was performed under:

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5150 – 5250MHz	802.11a	6 Mbps	NA	NA	15	15	15
	802.11n20	MCS0	NA	NA	14	14	14
	802.11n40	MCS0	NA	NA	14	/	14
	802.11ac20	MCS0	NA	NA	11	11	11
	802.11ac40	MCS0	NA	NA	12	/	12
	802.11ac80	MCS0	NA	NA	/	12	/
	11AX20	MCS0	26Tone	RU0	7	8	6
			52Tone	RU37	8	8	8
			106Tone	RU53	6	8	6
			242Tone	RU61	12	12	12
	11AX40	MCS0	26Tone	RU0	8	/	8
			52Tone	RU37	6	/	6
			106Tone	RU53	6	/	6
			242Tone	RU61	6	/	6
			484Tone	RU65	10	/	10
	11AX80	MCS0	26Tone	RU0	/	8	/
			52Tone	RU37	/	6	/
			106Tone	RU53	/	6	/
			242Tone	RU61	/	6	/
			484Tone	RU65	/	6	/
			996Tone	RU67	/	10	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5250 – 5350MHz	802.11a	6 Mbps	NA	NA	15	15	15
	802.11n20	MCS0	NA	NA	14	14	14
	802.11n40	MCS0	NA	NA	14	/	14
	802.11ac20	MCS0	NA	NA	11	11	11
	802.11ac40	MCS0	NA	NA	12	/	12
	802.11ac80	MCS0	NA	NA	/	12	/
	802.11ac160	MCS0	NA	NA	/	13	/
	11AX20	MCS0	26Tone	RU0	6	6	7
			52Tone	RU37	8	8	8
			106Tone	RU53	6	8	7
			242Tone	RU61	12	12	12
	11AX40	MCS0	26Tone	RU0	6	/	6
			52Tone	RU37	6	/	6
			106Tone	RU53	6	/	6
			242Tone	RU61	6	/	6
			484Tone	RU65	10	/	10
	11AX80	MCS0	26Tone	RU0	/	7	/
			52Tone	RU37	/	7	/
			106Tone	RU53	/	7	/
			242Tone	RU61	/	7	/
			484Tone	RU65	/	6	/
			996Tone	RU67	/	10	/
	11AX160	MCS0	26Tone	RU0	/	6	/
			52Tone	RU37	/	6	/
			106Tone	RU53	/	6	/
			242Tone	RU61	/	6	/
			484Tone	RU65	/	7	/
			996Tone	RU67	/	7	/
			2*996Tone	RU68	/	13	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5470-5725MHz	802.11a	6 Mbps	NA	NA	15	15	15
	802.11n20	MCS0	NA	NA	14	14	14
	802.11n40	MCS0	NA	NA	14	14	14
	802.11ac20	MCS0	NA	NA	11	11	13
	802.11ac40	MCS0	NA	NA	13	13	13
	802.11ac80	MCS0	NA	NA	13	/	13
	802.11ac160	MCS0	NA	NA	/	13	/
	11AX20	MCS0	26Tone	RU0	8	8	8
			52Tone	RU37	8	8	8
			106Tone	RU53	6	6	6
			242Tone	RU61	12	12	12
	11AX40	MCS0	26Tone	RU0	8	8	8
			52Tone	RU37	8	8	8
			106Tone	RU53	8	8	8
			242Tone	RU61	8	9	9
			484Tone	RU65	10	10	12
	11AX80	MCS0	26Tone	RU0	6	/	6
			52Tone	RU37	6	/	6
			106Tone	RU53	6	/	6
			242Tone	RU61	6	/	6
			484Tone	RU65	9	/	9
			996Tone	RU67	10	/	10
	11AX160	MCS0	26Tone	RU0	/	6	/
			52Tone	RU37	/	6	/
			106Tone	RU53	/	6	/
			242Tone	RU61	/	6	/
			484Tone	RU65	/	7	/
			996Tone	RU67	/	7	/
			2*996Tone	RU68	/	13	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5725-5850MHz	802.11a	6 Mbps	NA	NA	15	15	15
	802.11n20	MCS0	NA	NA	14	14	14
	802.11n40	MCS0	NA	NA	14	/	14
	802.11ac20	MCS0	NA	NA	13	13	13
	802.11ac40	MCS0	NA	NA	12	/	12
	802.11ac80	MCS0	NA	NA	/	12	/
	11AX20	MCS0	26Tone	RU0	9	9	9
			52Tone	RU37	9	9	9
			106Tone	RU53	9	9	9
			242Tone	RU61	12	12	12
	11AX40	MCS0	26Tone	RU0	8	/	8
			52Tone	RU37	8	/	8
			106Tone	RU53	8	/	8
			242Tone	RU61	9	/	9
			484Tone	RU65	12	/	12
	11AX80	MCS0	26Tone	RU0	/	8	/
			52Tone	RU37	/	6	/
			106Tone	RU53	/	8	/
			242Tone	RU61	/	8	/
			484Tone	RU65	/	9	/
			996Tone	RU67	/	13	/

U-NII	Test Mode	Data rate	RU Size	RU Index	Power Level*		
					Low Channel	Middle Channel	High Channel
5725-5895MHz	802.11a	6 Mbps	NA	NA	15	15	15
	802.11n20	MCS0	NA	NA	15	15	15
	802.11n40	MCS0	NA	NA	15	/	15
	802.11ac20	MCS0	NA	NA	15	15	15
	802.11ac40	MCS0	NA	NA	15	/	15
	802.11ac80	MCS0	NA	NA	/	15	/
	802.11ac160	MCS0	NA	NA	/	15	/
	11AX20	MCS0	26Tone	RU0	6	6	6
			52Tone	RU37	6	6	6
			106Tone	RU53	6	6	6
			242Tone	RU61	6	6	6
	11AX40	MCS0	26Tone	RU0	6	/	6
			52Tone	RU37	6	/	6
			106Tone	RU53	6	/	6
			242Tone	RU61	6	/	6
			484Tone	RU65	6	/	6
	11AX80	MCS0	26Tone	RU0	/	6	/
			52Tone	RU37	/	6	/
			106Tone	RU53	/	6	/
			242Tone	RU61	/	6	/
			484Tone	RU65	/	6	/
			996Tone	RU67	/	6	/
	11AX160	MCS0	26Tone	RU0	/	6	/
			52Tone	RU37	/	6	/
			106Tone	RU53	/	6	/
			242Tone	RU61	/	6	/
			484Tone	RU65	/	6	/
			996Tone	RU67	/	6	/
			2*996Tone	RU68	/	6	/

The worst-case data rates are determined to be as follows for each mode based upon investigation by measuring the average power, peak power and PSD across all data rates, bandwidths and modulations.

The device support SISO and MIMO, for n/ac/ax mode, the MIMO mode support beamforming, the SISO/MIMO and beam forming/nonbeam forming modes have same parameter, which was declared by applicant. The MIMO/beamforming was the worst mode which was selected to test.

All the antenna ports have the same power level.

Duty cycle

Test Result: Pass. Please refer to the Appendix.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

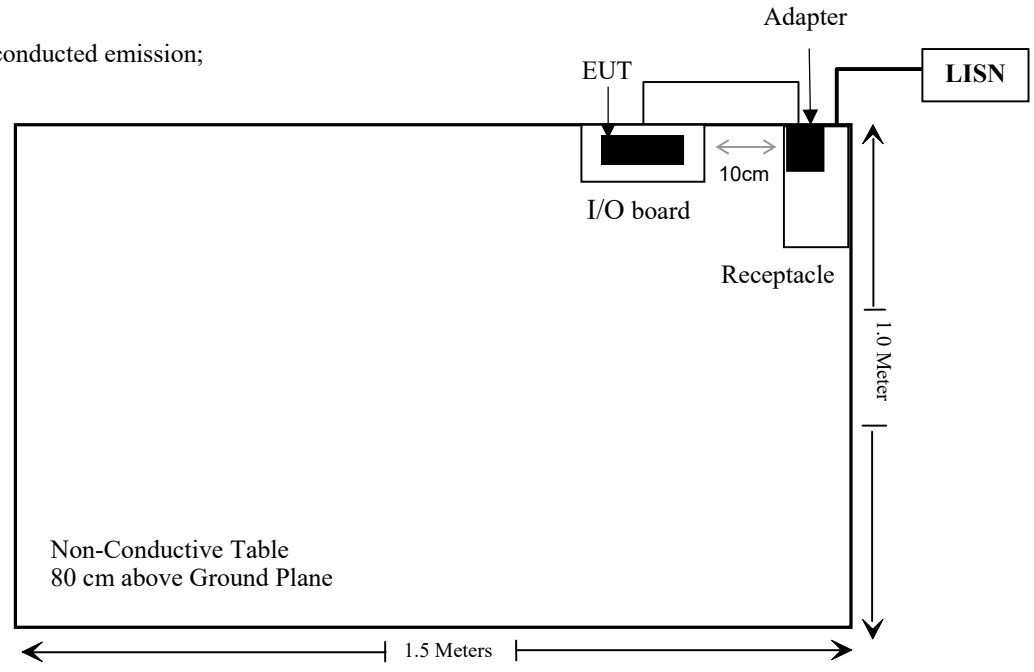
Manufacturer	Description	Model	Serial Number
LIANYUNDA	Adapter	LYD120200B	Unknown
Thundercomm Technology Co., Ltd	Test jig	I/O board	Unknown

External I/O Cable

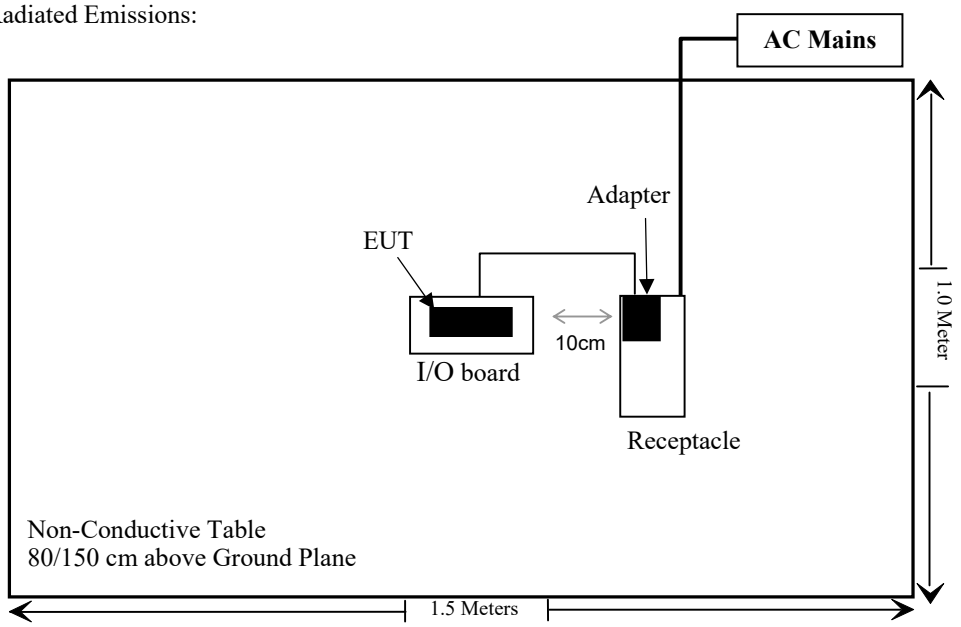
Cable Description	Length (m)	From Port	To
Un-shielding Un-Detachable DC Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For conducted emission;



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1307 (b) (3) & §2.1091	MPE-Based Exemption	Compliant
§15.203	Antenna Requirement	Compliant
§15.407(b)(9)& §15.207(a)	Conducted Emissions	Compliant
§15.205& §15.209 &§15.407(b)	Undesirable Emission& Restricted Bands	Compliant
§15.407(a) (e)	26 dB Emission Bandwidth & 6dB Bandwidth	Compliant
§15.407(a)	Conducted Transmitter Output Power	Compliant
§15.407 (a)	Power Spectral Density	Compliant
§15.407 (h)	Transmit Power Control (TPC)	Not Applicable
§15.407 (h)	Dynamic Frequency Selection (DFS)	Compliant*

Not Applicable: the EUT has no TPC function which was declarded by the applicant.

Compliant*: Please refer to the report: SZNS220928-44462E-RF-00D

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emissions Test					
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12
Rohde & Schwarz	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12
Anritsu Corp	50 Coaxial Switch	MP59B	6100237248	2021/12/13	2022/12/12
Unknown	RF Coaxial Cable	No.17	N0350	2021/12/14	2022/12/13
Conducted Emission Test Software: e3 19821b (V9)					
Radiated Emissions Test (30MHz-1GHz)					
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13
Radiated Emission Test Software: e3 19821b (V9)					

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emissions Test (Above 1GHz)					
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12
Rohde&Schwarz	Spectrum Analyzer	FSV40	101949	2022/11/25	2023/11/24
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2021/11/09	2022/11/08
A.H. Systems, inc.	Preamplifier	PAM-0118P	135	2022/11/08	2023/11/07
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2021/11/11	2022/11/10
Quinstar	Amplifier	QLW-18405536-J0	15964001002	2022/11/08	2023/11/07
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2020/01/05	2023/01/04
Schwarzbeck	Horn Antenna	BBHA9120D	9120D-1067	2022/11/30	2025/11/29
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2020/01/05	2023/01/04
Schwarzbeck	HORN ANTENNA	BBHA9170	9170-359	2022/12/26	2025/12/25
Radiated Emission Test Software: e3 19821b (V9)					
Unknown	RF Coaxial Cable	No.10	N050	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.10	N050	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.11	N1000	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.11	N1000	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.15	N600	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.15	N600	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.16	N650	2021/12/14	2022/12/13
Unknown	RF Coaxial Cable	No.16	N650	2022/11/25	2023/11/24
CD	Band Reject Filter	BRM-5.15/5.35g-45	075	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.15/5.35g-45	075	2022/11/25	2023/11/24
CD	Band Reject Filter	BRM-5.47/5.725G-45	055	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.47/5.725G-45	055	2022/11/25	2023/11/24
CD	Band Reject Filter	BRM-5.725/5.875G-45	065	2021/12/14	2022/12/13
CD	Band Reject Filter	BRM-5.725/5.875G-45	065	2022/11/25	2023/11/24

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RF conducted test					
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101590	2022/01/19	2023/01/18
Rohde&Schwarz	Spectrum Analyzer	FSV-40	101590	2022/11/25	2023/11/24
Tonscend	RF Control Unit	JS0806-2	19G8060182	2021/10/26	2022/10/25
Tonscend	RF Control Unit	JS0806-2	19G8060182	2022/10/24	2023/10/23
Agilent	USB wideband power sensor	U2021XA	MY54250003	2022/06/27	2023/06/26
HP	20dB Attenuator	8491A	53857	2021/12/14	2022/12/13
HP	20dB Attenuator	8491A	53857	2022/11/25	2023/11/24
Unknown	RF Coaxial Cable	No.31	RF-01	Each time	Each time
Rohde&Schwarz	Spectrum Analyzer	FSU26	200982	2022/07/04	2023/07/03
WEINSCHEL	10dB Attenuator	5324	AU 3842	2022/11/25	2023/11/24

*** Statement of Traceability:** Shenzhen Accurate Technology Co., Ltd. attests that all calibrations hAve.e been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1307 (b) (3) & §2.1091- MPE-Based Exemption

Applicable Standard

According to subpart 1.1307 (b) (3) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] to support an exemptionfrom further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

Ris the minimum separation distance in meters
f = frequency in MHz

Result

For worst case:

Mode	Frequency (MHz)	Tune up conducted power	Antenna Gain		ERP		Evaluation Distance (m)	ERP Limit (W)
		(dBm)	(dBi)	(dBd)	(dBm)	(W)		
BT	2402-2480	2.5	2.5	0.35	2.85	0.002	0.2	0.768
BLE	2402-2480	11.0	2.5	0.35	11.35	0.014	0.2	0.768
2.4G Wi-Fi	2412-2462	20.5	5.5	3.35	23.85	0.243	0.2	0.768
5G Wi-Fi	5150-5250	18.5	5.6	3.45	21.95	0.157	0.2	0.768
	5250-5350	19.0	5.6	3.45	22.45	0.176	0.2	0.768
	5470-5725	18.5	5.6	3.45	21.95	0.157	0.2	0.768
	5725-5850	16.0	5.6	3.45	19.45	0.088	0.2	0.768
	5850-5895	18.0	5.6	3.45	21.45	0.140	0.2	0.768
6G Wi-Fi	5925-6425	11.0	5.6	3.45	14.45	0.028	0.2	0.768
	6425-6525	9.5	5.6	3.45	12.95	0.020	0.2	0.768
	6525-6875	10.0	5.6	3.45	13.45	0.022	0.2	0.768
	6875-7125	9.5	5.6	3.45	12.95	0.020	0.2	0.768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.
2. The BT, 2.4G Wi-Fi, 5G Wi-Fi and 6G Wi-Fi cannot Simultaneous transmitting.
3. For the 2.4G Wi-Fi, as it can support the beam-forming function, so the directional antenna gain should add the 10lg2, 2.5dBi+10lg2=5.5dBi.
4. For the 5G Wi-Fi & 6G Wi-Fi, as it can support the beam-forming function, so the directional antenna gain should add the 10lg2, 2.6dBi+10lg2=5.6dBi.
5. 0dBd=2.15dBi

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

1) Antenna must be permanently attached to the unit.
2) Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.407 (a), if the transmitting antennas of directional gain greater than 6dBi are used, the transmit power and power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

No standard antenna connect port with this module, The EUT tested with two FPC antennas arrangement for Wi-Fi which were integrated on the main PCB use the MHF-Type connector and no consideration of replacement, fulfill the requirement of this section. Please refer to the EUT photos.

Type	Antenna Gain	Impedance	Frequency Range
FPC	2.6Bi	50 Ω	5150-5895MHz

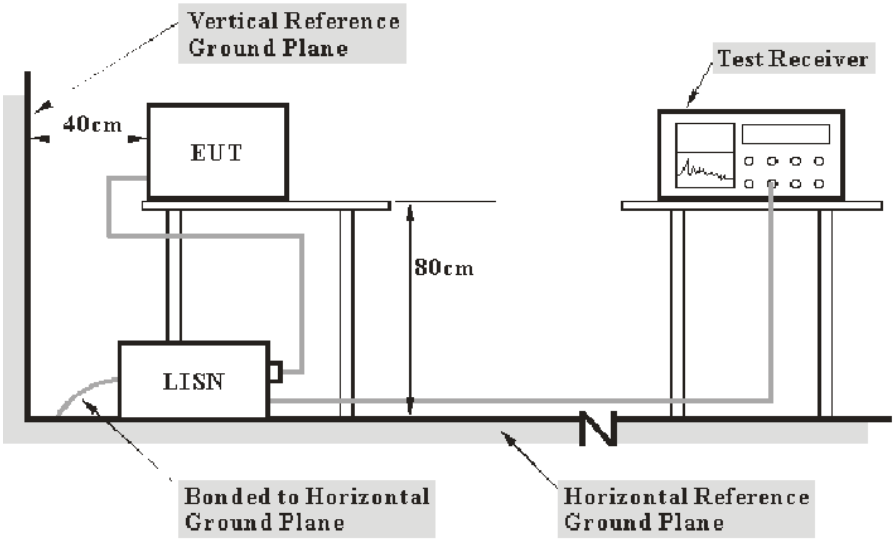
Result: Compliant.

FCC §15.407 (b) (6) §15.207 (a) – CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207, §15.407(b) (6)

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 Ave.erage detection mode.

Corrected Factor & Margin Calculation

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

Transd 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

Test Data

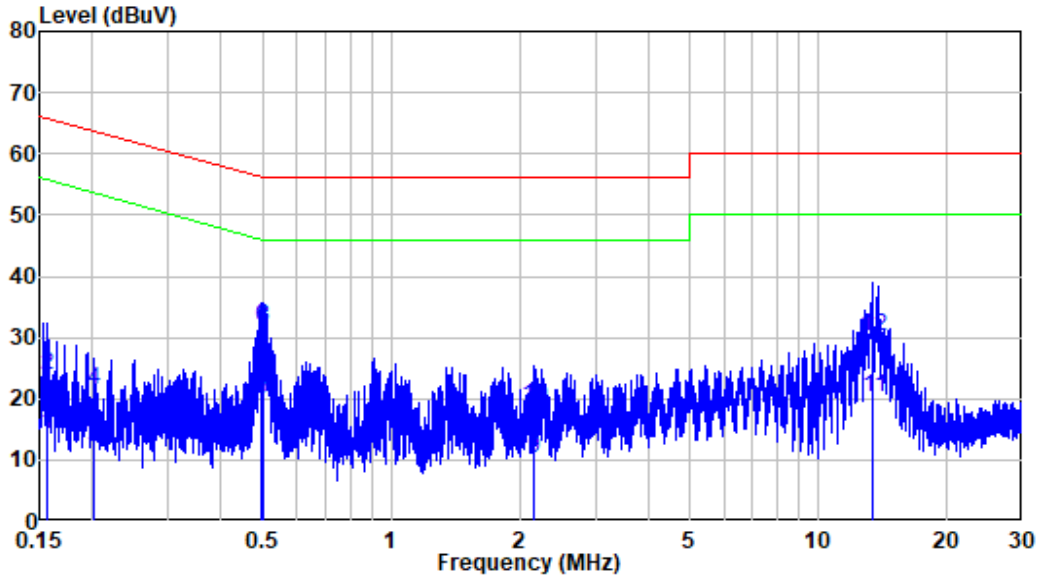
Environmental Conditions

Temperature:	23 °C
Relative Humidity:	41 %
ATM Pressure:	101.0 kPa

The testing was performed by Jason Liu on 2022-11-01.

EUT operation mode: Transmitting (worst case is 802.11a, 5200MHz)

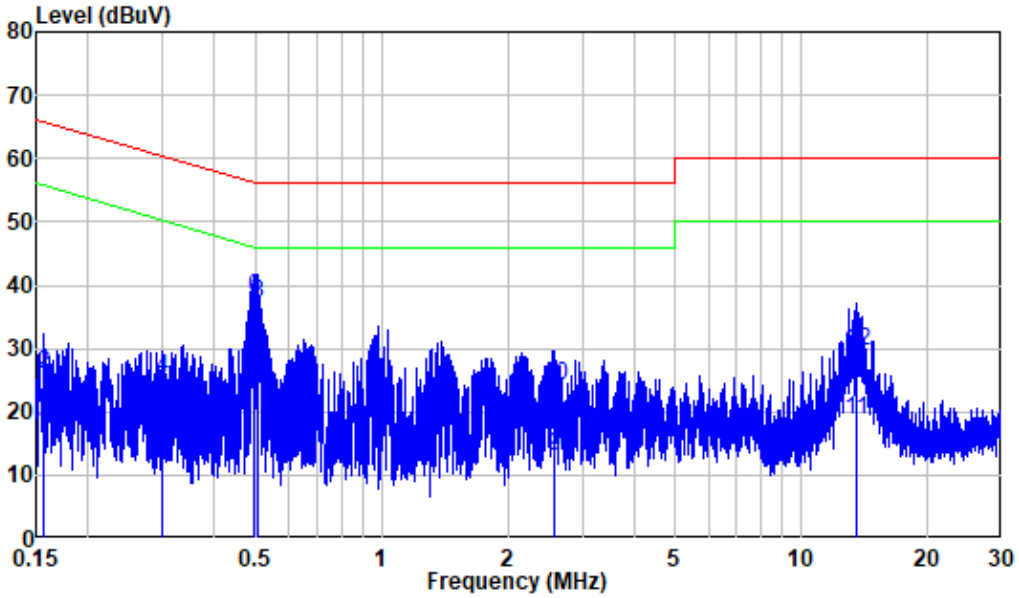
AC 120V/60 Hz, Line



Site : Shielding Room
Condition: Line
Job No. : SZNS220928-44462E-RF
Mode : 5G WIFI
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.156	9.80	4.32	14.12	55.68	-41.56	Average
2	0.156	9.80	14.13	23.93	65.68	-41.75	QP
3	0.201	9.80	2.14	11.94	53.57	-41.63	Average
4	0.201	9.80	11.52	21.32	63.57	-42.25	QP
5	0.494	9.80	10.12	19.92	46.10	-26.18	Average
6	0.494	9.80	21.99	31.79	56.10	-24.31	QP
7	0.503	9.80	10.27	20.07	46.00	-25.93	Average
8	0.503	9.80	21.90	31.70	56.00	-24.30	QP
9	2.157	9.82	0.53	10.35	46.00	-35.65	Average
10	2.157	9.82	8.90	18.72	56.00	-37.28	QP
11	13.426	9.93	10.19	20.12	50.00	-29.88	Average
12	13.426	9.93	20.40	30.33	60.00	-29.67	QP

AC 120V/60 Hz, Neutral



Site : Shielding Room
Condition: Neutral
Job No. : SZNS220928-44462E-RF
Mode : 5G WIFI
Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.157	9.80	6.69	16.49	55.62	-39.13	Average
2	0.157	9.80	16.19	25.99	65.62	-39.63	QP
3	0.299	9.80	4.98	14.78	50.26	-35.48	Average
4	0.299	9.80	15.63	25.43	60.26	-34.83	QP
5	0.495	9.80	15.02	24.82	46.09	-21.27	Average
6	0.495	9.80	28.10	37.90	56.09	-18.19	QP
7	0.506	9.80	14.52	24.32	46.00	-21.68	Average
8	0.506	9.80	27.42	37.22	56.00	-18.78	QP
9	2.574	9.83	3.30	13.13	46.00	-32.87	Average
10	2.574	9.83	14.39	24.22	56.00	-31.78	QP
11	13.515	10.04	8.67	18.71	50.00	-31.29	Average
12	13.515	10.04	19.52	29.56	60.00	-30.44	QP

§15.205 & §15.209 & §15.407(B)– UNDESIRABLE EMISSION

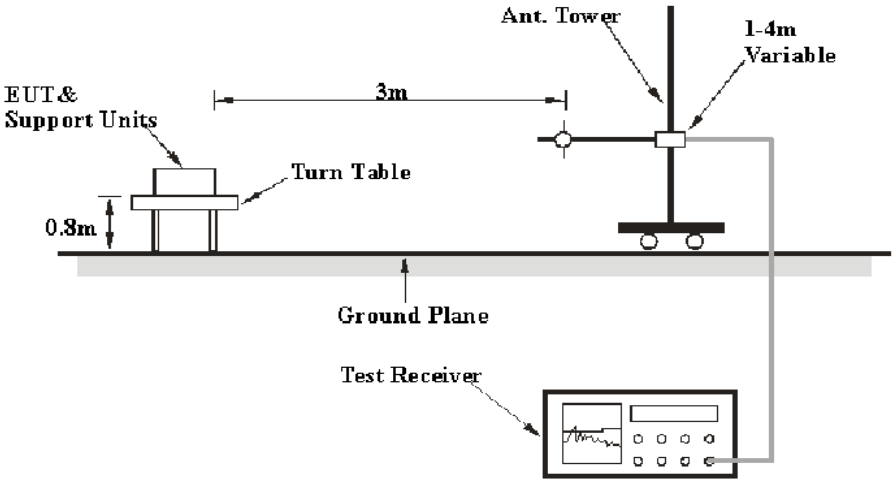
Applicable Standard

FCC §15.407 (b); §15.209; §15.205;

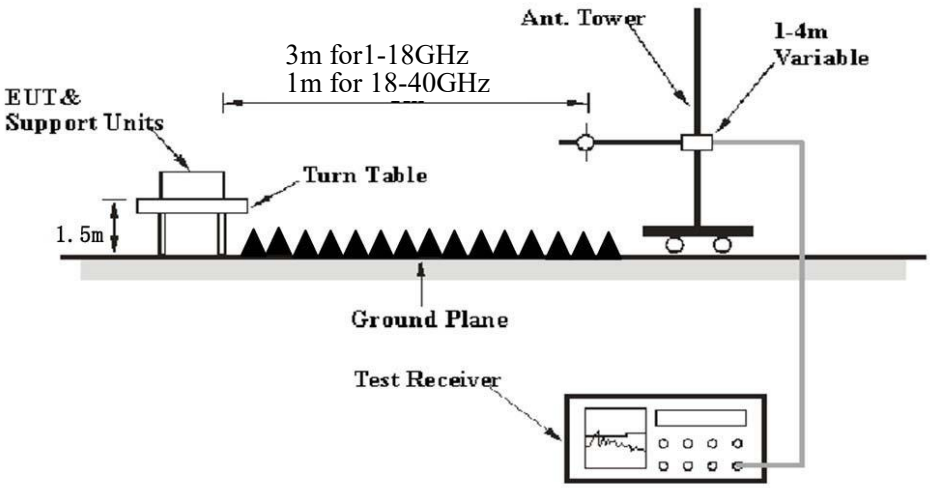
(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 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.
(5) For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:
(ii) For a client device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of −5 dBm/MHz and shall decrease linearly to an e.i.r.p. of −27 dBm/MHz at or above 5.925 GHz.
(iii) For a client device or indoor access point or subordinate device, all emissions below 5.725 GHz shall not exceed an e.i.r.p. of −27 dBm/MHz at 5.65 GHz increasing linearly to 10 dBm/MHz at 5.7 GHz, and from 5.7 GHz increasing linearly to a level of 15.6 dBm/MHz at 5.72 GHz, and from 5.72 GHz increasing linearly to a level of 27 dBm/MHz at 5.725 GHz.
Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

EUT Setup

Below 1 GHz:



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 30 MHz to 40 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1 MHz	3 MHz	/	PK
	1MHz	10 Hz Note 1	/	Ave.erage
	1MHz	＞1/T Note 2	/	Ave.erage

Note 1: when duty cycle is no less than 98%
Note 2: when duty cycle is less than 98%

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.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Ave.erage detection modes for frequencies above 1GHz.

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 & 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/Margin = Level / Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

Test Data

Environmental Conditions

Temperature:	24~25.6℃
Relative Humidity:	48~50%
ATM Pressure:	101.0 kPa

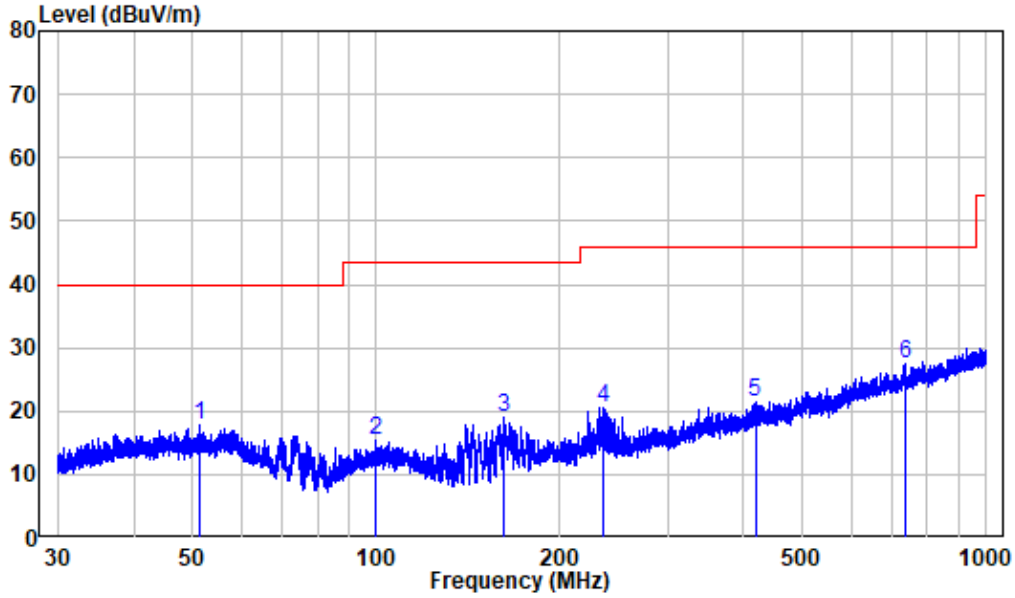
The testing was performed by Level Li on 2022-10-31 for below 1GHz, and Jimi Zheng from 2022-10-16 to 2023-02-26 or above 1GHz.

EUT operation mode: Transmitting (Pre-scan in the X,Y and Z axes of orientation, the worst case X-axes of orientation was recorded)

30 MHz – 1 GHz: *(worst case is 802.11a, 5200MHz)*

Note: When the result of Peak less than the limit of QP by more than 6dB, just the peak value was recorded.

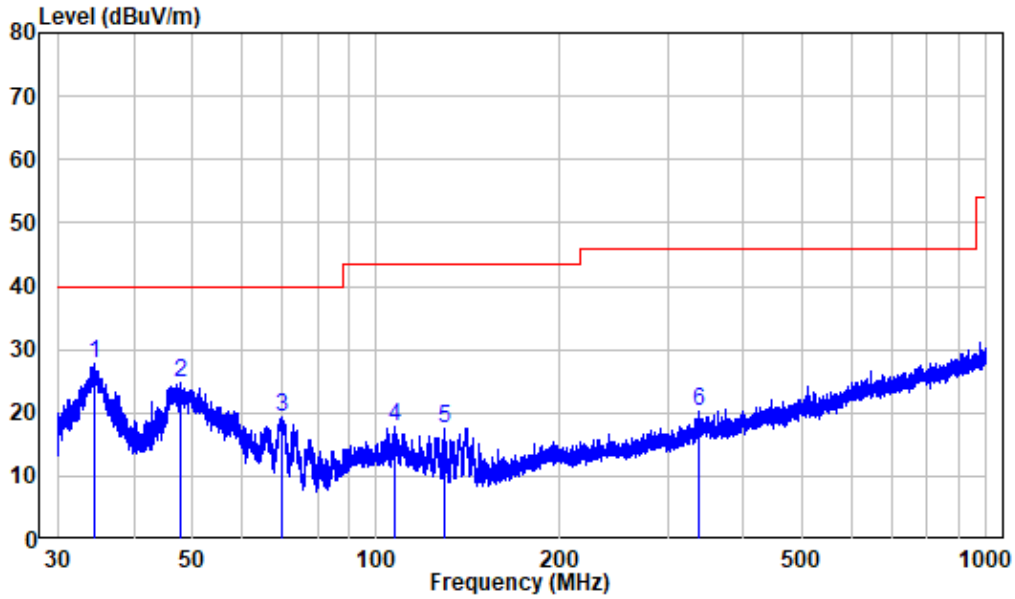
Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : SZNS220928-44462E-RF
Test Mode: 5G WIFI

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.368	-9.96	27.89	17.93	40.00	-22.07	Peak
2	99.878	-11.83	27.35	15.52	43.50	-27.98	Peak
3	162.112	-14.29	33.45	19.16	43.50	-24.34	Peak
4	234.785	-10.97	31.53	20.56	46.00	-25.44	Peak
5	418.007	-6.17	27.69	21.52	46.00	-24.48	Peak
6	734.813	-0.67	27.99	27.32	46.00	-18.68	Peak

Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : SZNS220928-44462E-RF
Test Mode: 5G WIFI

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	34.381	-11.74	39.62	27.88	40.00	-12.12	Peak
2	47.805	-10.00	34.68	24.68	40.00	-15.32	Peak
3	69.845	-14.71	34.04	19.33	40.00	-20.67	Peak
4	107.322	-11.97	29.72	17.75	43.50	-25.75	Peak
5	129.525	-14.85	32.46	17.61	43.50	-25.89	Peak
6	338.697	-7.48	27.66	20.18	46.00	-25.82	Peak

Above 1GHz:

5150-5250 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5180MHz									
4500	61.65	PK	222	1.5	H	-4.72	56.93	74	-17.07
4500	49.72	AV	222	1.5	H	-4.72	45	54	-9
4500	61.65	PK	191	2.5	V	-4.72	56.93	74	-17.07
4500	49.89	AV	191	2.5	V	-4.72	45.17	54	-8.83
5150	62.01	PK	138	2.5	H	-2.73	59.28	74	-14.72
5150	50.29	AV	138	2.5	H	-2.73	47.56	54	-6.44
5150	61.91	PK	172	2.1	V	-2.73	59.18	74	-14.82
5150	50.34	AV	172	2.1	V	-2.73	47.61	54	-6.39
10360	42.41	PK	333	1.3	H	8.12	50.53	68.2	-17.67
10360	41.55	PK	100	1.8	V	8.12	49.67	68.2	-18.53
5200MHz									
10400	42.23	PK	141	1.5	H	8.24	50.47	68.2	-17.73
10400	41.07	PK	339	1.1	V	8.24	49.31	68.2	-18.89
5240MHz									
5350	63.24	PK	341	1.8	H	-2.33	60.91	74	-13.09
5350	50.75	AV	341	1.8	H	-2.33	48.42	54	-5.58
5350	63.08	PK	195	1.9	V	-2.33	60.75	74	-13.25
5350	50.72	AV	195	1.9	V	-2.33	48.39	54	-5.61
5460	62.43	PK	250	1.5	H	-2.26	60.17	74	-13.83
5460	50.54	AV	250	1.5	H	-2.26	48.28	54	-5.72
5460	63.51	PK	336	2.4	V	-2.26	61.25	74	-12.75
5460	50.59	AV	336	2.4	V	-2.26	48.33	54	-5.67
10480	41.69	PK	306	1.3	H	8.56	50.25	68.2	-17.95
10480	40.98	PK	42	1.2	V	8.56	49.54	68.2	-18.66

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5180MHz									
4500	62.5	PK	37	1.5	H	-4.72	57.78	74	-16.22
4500	49.66	AV	37	1.5	H	-4.72	44.94	54	-9.06
4500	61.64	PK	159	1.2	V	-4.72	56.92	74	-17.08
4500	49.75	AV	159	1.2	V	-4.72	45.03	54	-8.97
5150	61.86	PK	284	1.4	H	-2.73	59.13	74	-14.87
5150	50.2	AV	284	1.4	H	-2.73	47.47	54	-6.53
5150	61.69	PK	47	1.8	V	-2.73	58.96	74	-15.04
5150	50.28	AV	47	1.8	V	-2.73	47.55	54	-6.45
10360	42.31	PK	286	1.1	H	8.12	50.43	68.2	-17.77
10360	41.37	PK	283	2.1	V	8.12	49.49	68.2	-18.71
5200MHz									
10400	42.33	PK	299	1.6	H	8.24	50.57	68.2	-17.63
10400	41.65	PK	38	1.9	V	8.24	49.89	68.2	-18.31
5240MHz									
5350	62.93	PK	229	2.3	H	-2.33	60.6	74	-13.4
5350	50.88	AV	229	2.3	H	-2.33	48.55	54	-5.45
5350	63.41	PK	86	1.3	V	-2.33	61.08	74	-12.92
5350	50.9	AV	86	1.3	V	-2.33	48.57	54	-5.43
5460	62.23	PK	235	2.3	H	-2.26	59.97	74	-14.03
5460	50.64	AV	235	2.3	H	-2.26	48.38	54	-5.62
5460	63.43	PK	49	1.4	V	-2.26	61.17	74	-12.83
5460	50.55	AV	49	1.4	V	-2.26	48.29	54	-5.71
10480	41.42	PK	271	2.4	H	8.56	49.98	68.2	-18.22
10480	40.86	PK	18	2.5	V	8.56	49.42	68.2	-18.78

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5190MHz									
4500	61.84	PK	192	1.2	H	-4.72	57.12	74	-16.88
4500	50.05	AV	192	1.2	H	-4.72	45.33	54	-8.67
4500	61.92	PK	221	1.4	V	-4.72	57.2	74	-16.8
4500	49.68	AV	221	1.4	V	-4.72	44.96	54	-9.04
5150	61.69	PK	167	1.4	H	-2.73	58.96	74	-15.04
5150	50.38	AV	167	1.4	H	-2.73	47.65	54	-6.35
5150	61.79	PK	279	1.3	V	-2.73	59.06	74	-14.94
5150	50.27	AV	279	1.3	V	-2.73	47.54	54	-6.46
10380	41.54	PK	57	1.6	H	8.18	49.72	68.2	-18.48
10380	41.17	PK	187	1.3	V	8.18	49.35	68.2	-18.85
5230MHz									
5350	62.97	PK	151	2	H	-2.33	60.64	74	-13.36
5350	50.87	AV	151	2	H	-2.33	48.54	54	-5.46
5350	62.92	PK	345	1.4	V	-2.33	60.59	74	-13.41
5350	50.88	AV	345	1.4	V	-2.33	48.55	54	-5.45
5460	62.34	PK	39	1.3	H	-2.26	60.08	74	-13.92
5460	50.52	AV	39	1.3	H	-2.26	48.26	54	-5.74
5460	63.56	PK	324	2.1	V	-2.26	61.3	74	-12.7
5460	50.68	AV	324	2.1	V	-2.26	48.42	54	-5.58
10460	40.41	PK	286	1.7	H	8.47	48.88	68.2	-19.32
10460	40.93	PK	93	1.4	V	8.47	49.4	68.2	-18.8

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5180MHz									
4500	62.13	PK	46	1.7	H	-4.72	57.41	74	-16.59
4500	49.66	AV	46	1.7	H	-4.72	44.94	54	-9.06
4500	62.19	PK	196	2	V	-4.72	57.47	74	-16.53
4500	49.82	AV	196	2	V	-4.72	45.1	54	-8.9
5150	62.09	PK	122	1.4	H	-2.73	59.36	74	-14.64
5150	50.42	AV	122	1.4	H	-2.73	47.69	54	-6.31
5150	62	PK	244	1.2	V	-2.73	59.27	74	-14.73
5150	50.34	AV	244	1.2	V	-2.73	47.61	54	-6.39
10360	41.19	PK	8	1.7	H	8.12	49.31	68.2	-18.89
10360	41.14	PK	202	2.2	V	8.12	49.26	68.2	-18.94
5200MHz									
10400	41.57	PK	182	1	H	8.24	49.81	68.2	-18.39
10400	41.72	PK	190	1.6	V	8.24	49.96	68.2	-18.24
5240MHz									
5350	62.96	PK	174	2.3	H	-2.33	60.63	74	-13.37
5350	50.76	AV	174	2.3	H	-2.33	48.43	54	-5.57
5350	63.16	PK	90	1.1	V	-2.33	60.83	74	-13.17
5350	50.77	AV	90	1.1	V	-2.33	48.44	54	-5.56
5460	62.53	PK	114	2.2	H	-2.26	60.27	74	-13.73
5460	50.62	AV	114	2.2	H	-2.26	48.36	54	-5.64
5460	63.16	PK	161	2	V	-2.26	60.9	74	-13.1
5460	50.66	AV	161	2	V	-2.26	48.4	54	-5.6
10480	40.37	PK	141	2.1	H	8.56	48.93	68.2	-19.27
10480	40.53	PK	279	1.6	V	8.56	49.09	68.2	-19.11

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5190MHz									
4500	61.89	PK	13	2.1	H	-4.72	57.17	74	-16.83
4500	49.77	AV	13	2.1	H	-4.72	45.05	54	-8.95
4500	62.25	PK	282	1.7	V	-4.72	57.53	74	-16.47
4500	50	AV	282	1.7	V	-4.72	45.28	54	-8.72
5150	61.79	PK	174	2.3	H	-2.73	59.06	74	-14.94
5150	50.65	AV	174	2.3	H	-2.73	47.92	54	-6.08
5150	61.75	PK	17	1.9	V	-2.73	59.02	74	-14.98
5150	50.76	AV	17	1.9	V	-2.73	48.03	54	-5.97
10380	40.97	PK	118	1.5	H	8.18	49.15	68.2	-19.05
10380	41.6	PK	136	1.7	V	8.18	49.78	68.2	-18.42
5230MHz									
5350	63.41	PK	218	1.5	H	-2.33	61.08	74	-12.92
5350	50.91	AV	218	1.5	H	-2.33	48.58	54	-5.42
5350	63.29	PK	193	2.2	V	-2.33	60.96	74	-13.04
5350	50.63	AV	193	2.2	V	-2.33	48.3	54	-5.7
5460	62.22	PK	179	1.1	H	-2.26	59.96	74	-14.04
5460	50.5	AV	179	1.1	H	-2.26	48.24	54	-5.76
5460	63.19	PK	285	1.2	V	-2.26	60.93	74	-13.07
5460	50.7	AV	285	1.2	V	-2.26	48.44	54	-5.56
10460	40.23	PK	61	2.4	H	8.47	48.7	68.2	-19.5
10460	40.47	PK	143	2.5	V	8.47	48.94	68.2	-19.26

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5210MHz									
4500	61.97	PK	40	2.2	H	-4.72	57.25	74	-16.75
4500	49.8	AV	40	2.2	H	-4.72	45.08	54	-8.92
4500	61.93	PK	238	1.4	V	-4.72	57.21	74	-16.79
4500	50.05	AV	238	1.4	V	-4.72	45.33	54	-8.67
5150	63.65	PK	265	1.5	H	-2.73	60.92	74	-13.08
5150	50.81	AV	265	1.5	H	-2.73	48.08	54	-5.92
5150	64.01	PK	127	1.6	V	-2.73	61.28	74	-12.72
5150	50.84	AV	127	1.6	V	-2.73	48.11	54	-5.89
5350	63.33	PK	300	2.3	H	-2.33	61	74	-13
5350	50.87	AV	300	2.3	H	-2.33	48.54	54	-5.46
5350	62.99	PK	100	2.3	V	-2.33	60.66	74	-13.34
5350	50.69	AV	100	2.3	V	-2.33	48.36	54	-5.64
5460	62.37	PK	263	1.5	H	-2.26	60.11	74	-13.89
5460	50.49	AV	263	1.5	H	-2.26	48.23	54	-5.77
5460	63.28	PK	4	1.7	V	-2.26	61.02	74	-12.98
5460	50.49	AV	4	1.7	V	-2.26	48.23	54	-5.77
10420	40.74	PK	127	2.4	H	8.32	49.06	68.2	-19.14
10420	41.6	PK	344	2.3	V	8.32	49.92	68.2	-18.28

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20_242Tone_RU61 (Worst Case)									
5180MHz									
4500	62.02	PK	221	2	H	-4.72	57.3	74	-16.7
4500	49.96	AV	221	2	H	-4.72	45.24	54	-8.76
4500	61.94	PK	250	1.9	V	-4.72	57.22	74	-16.78
4500	49.77	AV	250	1.9	V	-4.72	45.05	54	-8.95
5150	61.89	PK	330	1.9	H	-2.73	59.16	74	-14.84
5150	50.38	AV	330	1.9	H	-2.73	47.65	54	-6.35
5150	61.89	PK	102	2.5	V	-2.73	59.16	74	-14.84
5150	50.48	AV	102	2.5	V	-2.73	47.75	54	-6.25
10360	42.22	PK	22	2.1	H	8.12	50.34	68.2	-17.86
10360	40.85	PK	282	1.6	V	8.12	48.97	68.2	-19.23
5200MHz									
10400	42.42	PK	248	2	H	8.24	50.66	68.2	-17.54
10400	40.92	PK	336	1.7	V	8.24	49.16	68.2	-19.04
5240MHz									
5350	62.94	PK	226	2	H	-2.33	60.61	74	-13.39
5350	50.73	AV	226	2	H	-2.33	48.4	54	-5.6
5350	63.26	PK	312	1.5	V	-2.33	60.93	74	-13.07
5350	50.83	AV	312	1.5	V	-2.33	48.5	54	-5.5
5460	62.3	PK	302	2.5	H	-2.26	60.04	74	-13.96
5460	50.69	AV	302	2.5	H	-2.26	48.43	54	-5.57
5460	63.35	PK	219	1.3	V	-2.26	61.09	74	-12.91
5460	50.65	AV	219	1.3	V	-2.26	48.39	54	-5.61
10480	41.77	PK	148	1.4	H	8.56	50.33	68.2	-17.87
10480	40.41	PK	23	2.1	V	8.56	48.97	68.2	-19.23

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40_484Tone_RU65 (Worst Case)									
5190MHz									
4500	62.18	PK	142	2.4	H	-4.72	57.46	74	-16.54
4500	50.05	AV	142	2.4	H	-4.72	45.33	54	-8.67
4500	61.76	PK	314	2.3	V	-4.72	57.04	74	-16.96
4500	49.96	AV	314	2.3	V	-4.72	45.24	54	-8.76
5150	61.99	PK	185	2.2	H	-2.73	59.26	74	-14.74
5150	50.4	AV	185	2.2	H	-2.73	47.67	54	-6.33
5150	61.91	PK	358	1.5	V	-2.73	59.18	74	-14.82
5150	50.34	AV	358	1.5	V	-2.73	47.61	54	-6.39
10380	41.67	PK	328	2.3	H	8.18	49.85	68.2	-18.35
10380	41.68	PK	274	2.2	V	8.18	49.86	68.2	-18.34
5230MHz									
5350	63.07	PK	331	1.5	H	-2.33	60.74	74	-13.26
5350	50.9	AV	331	1.5	H	-2.33	48.57	54	-5.43
5350	62.95	PK	319	1.2	V	-2.33	60.62	74	-13.38
5350	50.89	AV	319	1.2	V	-2.33	48.56	54	-5.44
5460	62.17	PK	143	1.5	H	-2.26	59.91	74	-14.09
5460	50.57	AV	143	1.5	H	-2.26	48.31	54	-5.69
5460	63.6	PK	312	1.3	V	-2.26	61.34	74	-12.66
5460	50.46	AV	312	1.3	V	-2.26	48.2	54	-5.8
10460	40.64	PK	324	1.7	H	8.47	49.11	68.2	-19.09
10460	40.61	PK	124	2.1	V	8.47	49.08	68.2	-19.12

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80_996Tone_RU67(Worst Case)									
5210MHz									
4500	61.85	PK	59	2.1	H	-4.72	57.13	74	-16.87
4500	49.59	AV	59	2.1	H	-4.72	44.87	54	-9.13
4500	62.56	PK	191	1.6	V	-4.72	57.84	74	-16.16
4500	50.01	AV	191	1.6	V	-4.72	45.29	54	-8.71
5150	65.8	PK	124	2.4	H	-2.73	63.07	74	-10.93
5150	51.63	AV	124	2.4	H	-2.73	48.9	54	-5.1
5150	65.07	PK	28	1.5	V	-2.73	62.34	74	-11.66
5150	50.81	AV	28	1.5	V	-2.73	48.08	54	-5.92
5350	63.3	PK	35	2.1	H	-2.33	60.97	74	-13.03
5350	50.74	AV	35	2.1	H	-2.33	48.41	54	-5.59
5350	63.28	PK	112	1.8	V	-2.33	60.95	74	-13.05
5350	50.85	AV	112	1.8	V	-2.33	48.52	54	-5.48
5460	62.59	PK	206	1.5	H	-2.26	60.33	74	-13.67
5460	50.43	AV	206	1.5	H	-2.26	48.17	54	-5.83
5460	63.48	PK	193	1.9	V	-2.26	61.22	74	-12.78
5460	50.49	AV	193	1.9	V	-2.26	48.23	54	-5.77
10420	40.7	PK	262	1.4	H	8.32	49.02	68.2	-19.18
10420	40.9	PK	312	2.2	V	8.32	49.22	68.2	-18.98

5250-5350 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5260MHz									
4500	61.58	PK	69	1.6	H	-4.72	56.86	74	-17.14
4500	49.75	AV	69	1.6	H	-4.72	45.03	54	-8.97
4500	61.85	PK	32	2.4	V	-4.72	57.13	74	-16.87
4500	49.61	AV	32	2.4	V	-4.72	44.89	54	-9.11
5150	63.89	PK	106	2.2	H	-2.73	61.16	74	-12.84
5150	50.53	AV	106	2.2	H	-2.73	47.8	54	-6.2
5150	63.06	PK	339	1.2	V	-2.73	60.33	74	-13.67
5150	50.12	AV	339	1.2	V	-2.73	47.39	54	-6.61
10520	40.46	PK	279	1.7	H	8.65	49.11	68.2	-19.09
10520	40.12	PK	31	1.2	V	8.65	48.77	68.2	-19.43
5280MHz									
10560	41.17	PK	260	1.4	H	8.69	49.86	68.2	-18.34
10560	41.45	PK	158	1.7	V	8.69	50.14	68.2	-18.06
5320MHz									
5350	64.14	PK	246	1.1	H	-2.33	61.81	74	-12.19
5350	50.62	AV	246	1.1	H	-2.33	48.29	54	-5.71
5350	64	PK	249	2.1	V	-2.33	61.67	74	-12.33
5350	50.44	AV	249	2.1	V	-2.33	48.11	54	-5.89
5460	62.46	PK	305	2.4	H	-2.26	60.2	74	-13.8
5460	50.64	AV	305	2.4	H	-2.26	48.38	54	-5.62
5460	63.45	PK	5	1.5	V	-2.26	61.19	74	-12.81
5460	50.53	AV	5	1.5	V	-2.26	48.27	54	-5.73
10640	41.54	PK	177	1.5	H	8.92	50.46	74	-23.54
10640	27.89	AV	177	1.5	H	8.92	36.81	54	-17.19
10640	41.39	PK	229	2.1	V	8.92	50.31	74	-23.69
10640	27.97	AV	229	2.1	V	8.92	36.89	54	-17.11

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5260MHz									
4500	62.46	PK	31	1.3	H	-4.72	57.74	74	-16.26
4500	49.94	AV	31	1.3	H	-4.72	45.22	54	-8.78
4500	62.49	PK	204	2.2	V	-4.72	57.77	74	-16.23
4500	49.7	AV	204	2.2	V	-4.72	44.98	54	-9.02
5150	63.9	PK	141	2.1	H	-2.73	61.17	74	-12.83
5150	50.54	AV	141	2.1	H	-2.73	47.81	54	-6.19
5150	63.06	PK	34	2.3	V	-2.73	60.33	74	-13.67
5150	49.84	AV	34	2.3	V	-2.73	47.11	54	-6.89
10520	40.7	PK	24	1.2	H	8.65	49.35	68.2	-18.85
10520	40.35	PK	120	1.5	V	8.65	49	68.2	-19.2
5280MHz									
10560	41.18	PK	174	2.2	H	8.69	49.87	68.2	-18.33
10560	40.79	PK	38	1.3	V	8.69	49.48	68.2	-18.72
5320MHz									
5350	64.15	PK	302	1.2	H	-2.33	61.82	74	-12.18
5350	50.64	AV	302	1.2	H	-2.33	48.31	54	-5.69
5350	64.29	PK	160	2	V	-2.33	61.96	74	-12.04
5350	50.56	AV	160	2	V	-2.33	48.23	54	-5.77
5460	62.61	PK	6	1.4	H	-2.26	60.35	74	-13.65
5460	50.73	AV	6	1.4	H	-2.26	48.47	54	-5.53
5460	63.22	PK	174	2.3	V	-2.26	60.96	74	-13.04
5460	50.61	AV	174	2.3	V	-2.26	48.35	54	-5.65
10640	41.49	PK	256	1.7	H	8.92	50.41	74	-23.59
10640	27.94	AV	256	1.7	H	8.92	36.86	54	-17.14
10640	41.49	PK	231	1.5	V	8.92	50.41	74	-23.59
10640	28.05	AV	231	1.5	V	8.92	36.97	54	-17.03

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5270MHz									
4500	62.17	PK	81	1.5	H	-4.72	57.45	74	-16.55
4500	49.93	AV	81	1.5	H	-4.72	45.21	54	-8.79
4500	61.93	PK	164	1.4	V	-4.72	57.21	74	-16.79
4500	49.91	AV	164	1.4	V	-4.72	45.19	54	-8.81
5150	63.69	PK	50	2.1	H	-2.73	60.96	74	-13.04
5150	50.58	AV	50	2.1	H	-2.73	47.85	54	-6.15
5150	62.81	PK	24	1.9	V	-2.73	60.08	74	-13.92
5150	50.12	AV	24	1.9	V	-2.73	47.39	54	-6.61
10540	40.63	PK	269	1.7	H	8.65	49.28	68.2	-18.92
10540	40.9	PK	260	1.6	V	8.65	49.55	68.2	-18.65
5310MHz									
5350	66.96	PK	297	2.2	H	-2.33	64.63	74	-9.37
5350	51.78	AV	297	2.2	H	-2.33	49.45	54	-4.55
5350	68.19	PK	263	2.5	V	-2.33	65.86	74	-8.14
5350	51.6	AV	263	2.5	V	-2.33	49.27	54	-4.73
5460	62.29	PK	73	1.8	H	-2.26	60.03	74	-13.97
5460	50.59	AV	73	1.8	H	-2.26	48.33	54	-5.67
5460	63.38	PK	251	1.2	V	-2.26	61.12	74	-12.88
5460	50.7	AV	251	1.2	V	-2.26	48.44	54	-5.56
10620	40.93	PK	258	1.6	H	8.89	49.82	74	-24.18
10620	27.83	AV	258	1.6	H	8.89	36.72	54	-17.28
10620	41.16	PK	330	2.3	V	8.89	50.05	74	-23.95
10620	27.98	AV	330	2.3	V	8.89	36.87	54	-17.13

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5260MHz									
4500	62.46	PK	130	2.5	H	-4.72	57.74	74	-16.26
4500	49.87	AV	130	2.5	H	-4.72	45.15	54	-8.85
4500	62.49	PK	214	2.3	V	-4.72	57.77	74	-16.23
4500	49.7	AV	214	2.3	V	-4.72	44.98	54	-9.02
5150	63.92	PK	91	2.5	H	-2.73	61.19	74	-12.81
5150	50.52	AV	91	2.5	H	-2.73	47.79	54	-6.21
5150	62.65	PK	54	2.4	V	-2.73	59.92	74	-14.08
5150	50.14	AV	54	2.4	V	-2.73	47.41	54	-6.59
10520	40.62	PK	185	1.1	H	8.65	49.27	68.2	-18.93
10520	40.75	PK	173	1.7	V	8.65	49.4	68.2	-18.8
5280MHz									
10560	40.85	PK	42	1.9	H	8.69	49.54	68.2	-18.66
10560	41.11	PK	155	1	V	8.69	49.8	68.2	-18.4
5320MHz									
5350	70.03	PK	146	1.7	H	-2.33	67.7	74	-6.3
5350	50.62	AV	146	1.7	H	-2.33	48.29	54	-5.71
5350	68.05	PK	325	2	V	-2.33	65.72	74	-8.28
5350	50.64	AV	325	2	V	-2.33	48.31	54	-5.69
5460	62.53	PK	142	2.4	H	-2.26	60.27	74	-13.73
5460	50.61	AV	142	2.4	H	-2.26	48.35	54	-5.65
5460	63.4	PK	147	1.5	V	-2.26	61.14	74	-12.86
5460	50.68	AV	147	1.5	V	-2.26	48.42	54	-5.58
10640	41.01	PK	218	1.2	H	8.92	49.93	74	-24.07
10640	27.98	AV	218	1.2	H	8.92	36.9	54	-17.1
10640	41.33	PK	159	1	V	8.92	50.25	74	-23.75
10640	27.84	AV	159	1	V	8.92	36.76	54	-17.24

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5270MHz									
4500	62.49	PK	246	1.7	H	-4.72	57.77	74	-16.23
4500	49.87	AV	246	1.7	H	-4.72	45.15	54	-8.85
4500	61.57	PK	278	1.2	V	-4.72	56.85	74	-17.15
4500	49.61	AV	278	1.2	V	-4.72	44.89	54	-9.11
5150	63.82	PK	192	1.2	H	-2.73	61.09	74	-12.91
5150	50.26	AV	192	1.2	H	-2.73	47.53	54	-6.47
5150	62.92	PK	96	1.8	V	-2.73	60.19	74	-13.81
5150	50.13	AV	96	1.8	V	-2.73	47.4	54	-6.6
10540	40.85	PK	315	2.4	H	8.65	49.5	68.2	-18.7
10540	40.63	PK	313	1.9	V	8.65	49.28	68.2	-18.92
5310MHz									
5350	66.35	PK	276	2.2	H	-2.33	64.02	74	-9.98
5350	51.05	AV	276	2.2	H	-2.33	48.72	54	-5.28
5350	66.19	PK	254	2.3	V	-2.33	63.86	74	-10.14
5350	51.17	AV	254	2.3	V	-2.33	48.84	54	-5.16
5460	62.54	PK	103	2.2	H	-2.26	60.28	74	-13.72
5460	50.49	AV	103	2.2	H	-2.26	48.23	54	-5.77
5460	63.56	PK	175	1.9	V	-2.26	61.3	74	-12.7
5460	50.64	AV	175	1.9	V	-2.26	48.38	54	-5.62
10620	41.17	PK	81	1.8	H	8.89	50.06	74	-23.94
10620	27.79	AV	81	1.8	H	8.89	36.68	54	-17.32
10620	41.16	PK	290	1.4	V	8.89	50.05	74	-23.95
10620	27.79	AV	290	1.4	V	8.89	36.68	54	-17.32

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5290MHz									
4500	62.25	PK	16	2.1	H	-4.72	57.53	74	-16.47
4500	50.02	AV	16	2.1	H	-4.72	45.3	54	-8.7
4500	61.76	PK	337	2.2	V	-4.72	57.04	74	-16.96
4500	49.61	AV	337	2.2	V	-4.72	44.89	54	-9.11
5150	63.69	PK	263	2.4	H	-2.73	60.96	74	-13.04
5150	50.51	AV	263	2.4	H	-2.73	47.78	54	-6.22
5150	62.69	PK	234	1.4	V	-2.73	59.96	74	-14.04
5150	50.02	AV	234	1.4	V	-2.73	47.29	54	-6.71
5350	65.93	PK	231	1	H	-2.33	63.6	74	-10.4
5350	50.95	AV	231	1	H	-2.33	48.62	54	-5.38
5350	66.06	PK	179	2	V	-2.33	63.73	74	-10.27
5350	50.98	AV	179	2	V	-2.33	48.65	54	-5.35
5460	62.13	PK	31	2.4	H	-2.26	59.87	74	-14.13
5460	50.59	AV	31	2.4	H	-2.26	48.33	54	-5.67
5460	63.3	PK	306	2.3	V	-2.26	61.04	74	-12.96
5460	50.49	AV	306	2.3	V	-2.26	48.23	54	-5.77
10580	41.54	PK	246	1.3	H	8.77	50.31	68.2	-17.89
10580	41.24	PK	349	1.6	V	8.77	50.01	68.2	-18.19

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC160									
5250MHz									
4500	62.25	PK	1	2.2	H	-4.72	57.53	74	-16.47
4500	50.02	AV	1	2.2	H	-4.72	45.3	54	-8.7
4500	61.76	PK	309	1.2	V	-4.72	57.04	74	-16.96
4500	49.61	AV	309	1.2	V	-4.72	44.89	54	-9.11
5150	63.69	PK	150	1.7	H	-2.73	60.96	74	-13.04
5150	50.51	AV	150	1.7	H	-2.73	47.78	54	-6.22
5150	62.69	PK	249	2.4	V	-2.73	59.96	74	-14.04
5150	50.02	AV	249	2.4	V	-2.73	47.29	54	-6.71
5350	66.93	PK	17	1.5	H	-2.33	64.6	74	-9.4
5350	51.12	AV	17	1.5	H	-2.33	48.79	54	-5.21
5350	67.25	PK	106	2.2	V	-2.33	64.92	74	-9.08
5350	51.65	AV	106	2.2	V	-2.33	49.32	54	-4.68
5460	62.19	PK	72	2.1	H	-2.26	59.93	74	-14.07
5460	50.68	AV	72	2.1	H	-2.26	48.42	54	-5.58
5460	63.18	PK	166	1.2	V	-2.26	60.92	74	-13.08
5460	50.66	AV	166	1.2	V	-2.26	48.4	54	-5.6
10500	40.34	PK	214	2.1	H	8.65	48.99	68.2	-19.21
10500	41.03	PK	186	2.1	V	8.65	49.68	68.2	-18.52

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20_242Tone_RU61 (Worst Case)									
5260MHz									
4500	61.96	PK	111	1.7	H	-4.72	57.24	74	-16.76
4500	49.85	AV	111	1.7	H	-4.72	45.13	54	-8.87
4500	62.03	PK	269	1.1	V	-4.72	57.31	74	-16.69
4500	49.73	AV	269	1.1	V	-4.72	45.01	54	-8.99
5150	63.68	PK	155	2.4	H	-2.73	60.95	74	-13.05
5150	50.37	AV	155	2.4	H	-2.73	47.64	54	-6.36
5150	62.85	PK	210	1.8	V	-2.73	60.12	74	-13.88
5150	50.13	AV	210	1.8	V	-2.73	47.4	54	-6.6
10520	40.39	PK	101	1.6	H	8.65	49.04	68.2	-19.16
10520	40.75	PK	298	2.3	V	8.65	49.4	68.2	-18.8
5280MHz									
10560	41.48	PK	302	1.2	H	8.69	50.17	68.2	-18.03
10560	41.15	PK	160	1.2	V	8.69	49.84	68.2	-18.36
5320MHz									
5350	64.01	PK	157	2.5	H	-2.33	61.68	74	-12.32
5350	50.69	AV	157	2.5	H	-2.33	48.36	54	-5.64
5350	64.38	PK	288	1.3	V	-2.33	62.05	74	-11.95
5350	50.7	AV	288	1.3	V	-2.33	48.37	54	-5.63
5460	62.24	PK	221	1.3	H	-2.26	59.98	74	-14.02
5460	50.48	AV	221	1.3	H	-2.26	48.22	54	-5.78
5460	63.62	PK	4	1.3	V	-2.26	61.36	74	-12.64
5460	50.53	AV	4	1.3	V	-2.26	48.27	54	-5.73
10640	41.43	PK	110	2.3	H	8.92	50.35	74	-23.65
10640	27.83	AV	110	2.3	H	8.92	36.75	54	-17.25
10640	41.27	PK	136	1.7	V	8.92	50.19	74	-23.81
10640	27.81	AV	136	1.7	V	8.92	36.73	54	-17.27

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40_484Tone_RU65 (Worst Case)									
5270MHz									
4500	62.3	PK	332	1.4	H	-4.72	57.58	74	-16.42
4500	49.95	AV	332	1.4	H	-4.72	45.23	54	-8.77
4500	62.51	PK	250	1.9	V	-4.72	57.79	74	-16.21
4500	49.97	AV	250	1.9	V	-4.72	45.25	54	-8.75
5150	63.89	PK	161	2.3	H	-2.73	61.16	74	-12.84
5150	50.5	AV	161	2.3	H	-2.73	47.77	54	-6.23
5150	62.74	PK	182	2.1	V	-2.73	60.01	74	-13.99
5150	49.77	AV	182	2.1	V	-2.73	47.04	54	-6.96
10540	40.41	PK	140	1.9	H	8.65	49.06	68.2	-19.14
10540	40.61	PK	69	1.8	V	8.65	49.26	68.2	-18.94
5310MHz									
5350	67.38	PK	62	1.2	H	-2.33	65.05	74	-8.95
5350	51.72	AV	62	1.2	H	-2.33	49.39	54	-4.61
5350	68.05	PK	242	1.3	V	-2.33	65.72	74	-8.28
5350	51.66	AV	242	1.3	V	-2.33	49.33	54	-4.67
5460	62.41	PK	248	1.7	H	-2.26	60.15	74	-13.85
5460	50.54	AV	248	1.7	H	-2.26	48.28	54	-5.72
5460	63.35	PK	16	1.7	V	-2.26	61.09	74	-12.91
5460	50.68	AV	16	1.7	V	-2.26	48.42	54	-5.58
10620	41.16	PK	235	1.6	H	8.89	50.05	74	-23.95
10620	27.9	AV	235	1.6	H	8.89	36.79	54	-17.21
10620	41	PK	82	2	V	8.89	49.89	74	-24.11
10620	28.03	AV	82	2	V	8.89	36.92	54	-17.08

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80_996Tone_RU67(Worst Case)									
5290MHz									
4500	61.7	PK	43	1.6	H	-4.72	56.98	74	-17.02
4500	49.89	AV	43	1.6	H	-4.72	45.17	54	-8.83
4500	62.07	PK	193	2.3	V	-4.72	57.35	74	-16.65
4500	49.88	AV	193	2.3	V	-4.72	45.16	54	-8.84
5150	63.79	PK	209	2.4	H	-2.73	61.06	74	-12.94
5150	50.49	AV	209	2.4	H	-2.73	47.76	54	-6.24
5150	63.05	PK	143	2.1	V	-2.73	60.32	74	-13.68
5150	50.23	AV	143	2.1	V	-2.73	47.5	54	-6.5
5350	68.14	PK	24	1.1	H	-2.33	65.81	74	-8.19
5350	51.74	AV	24	1.1	H	-2.33	49.41	54	-4.59
5350	67.02	PK	141	1.7	V	-2.33	64.69	74	-9.31
5350	51.66	AV	141	1.7	V	-2.33	49.33	54	-4.67
5460	62.19	PK	357	1.1	H	-2.26	59.93	74	-14.07
5460	50.7	AV	357	1.1	H	-2.26	48.44	54	-5.56
5460	63.15	PK	108	1.2	V	-2.26	60.89	74	-13.11
5460	50.5	AV	108	1.2	V	-2.26	48.24	54	-5.76
10580	41.45	PK	298	2	H	8.77	50.22	68.2	-17.98
10580	41.42	PK	52	1.7	V	8.77	50.19	68.2	-18.01

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax160_2*996Tone_RU68(Worst Case)									
5250MHz									
4500	61.97	PK	262	1.5	H	-4.72	57.25	74	-16.75
4500	50.06	AV	262	1.5	H	-4.72	45.34	54	-8.66
4500	61.82	PK	273	1.6	V	-4.72	57.1	74	-16.9
4500	49.84	AV	273	1.6	V	-4.72	45.12	54	-8.88
5150	67.93	PK	298	1.3	H	-2.73	65.2	74	-8.8
5150	53.83	AV	298	1.3	H	-2.73	51.1	54	-2.9
5150	66.71	PK	181	1.9	V	-2.73	63.98	74	-10.02
5150	53.53	AV	181	1.9	V	-2.73	50.8	54	-3.2
5350	68.31	PK	166	1.5	H	-2.33	65.98	74	-8.02
5350	52.07	AV	166	1.5	H	-2.33	49.74	54	-4.26
5350	67.26	PK	67	1.2	V	-2.33	64.93	74	-9.07
5350	51.74	AV	67	1.2	V	-2.33	49.41	54	-4.59
5460	62.17	PK	195	2.1	H	-2.26	59.91	74	-14.09
5460	50.54	AV	195	2.1	H	-2.26	48.28	54	-5.72
5460	63.18	PK	153	2.5	V	-2.26	60.92	74	-13.08
5460	50.45	AV	153	2.5	V	-2.26	48.19	54	-5.81
10500	41.03	PK	108	1.4	H	8.65	49.68	68.2	-18.52
10500	40.45	PK	353	1.4	V	8.65	49.10	68.2	-19.1

5470-5725MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5500MHz									
5460	64.17	PK	198	1.1	H	-2.26	61.91	74	-12.09
5460	50.38	AV	198	1.1	H	-2.26	48.12	54	-5.88
5460	64.41	PK	129	1.8	V	-2.26	62.15	74	-11.85
5460	50.49	AV	129	1.8	V	-2.26	48.23	54	-5.77
5470	65.71	PK	226	1.8	H	-2.22	63.49	68.2	-4.71
5470	66.34	PK	277	2	V	-2.22	64.12	68.2	-4.08
11000	40.16	PK	321	1.6	H	9.67	49.83	74	-24.17
11000	26.73	AV	321	1.6	H	9.67	36.4	54	-17.6
11000	40.6	PK	244	1.3	V	9.67	50.27	74	-23.73
11000	27.01	AV	244	1.3	V	9.67	36.68	54	-17.32
5580MHz									
11160	41.48	PK	24	2.1	H	8.68	50.16	74	-23.84
11160	28.13	AV	24	2.1	H	8.68	36.81	54	-17.19
11160	42.05	PK	189	2.1	V	8.68	50.73	74	-23.27
11160	28.36	AV	189	2.1	V	8.68	37.04	54	-16.96
5700MHz									
5725	66.3	PK	142	2.1	H	-1.96	64.34	68.2	-3.86
5725	66.71	PK	247	1.9	V	-1.96	64.75	68.2	-3.45
5745	64.29	PK	52	2.2	H	-1.91	62.38	68.2	-5.82
5745	64.54	PK	274	1.9	V	-1.91	62.63	68.2	-5.57
11400	43.9	PK	176	2.3	H	7.26	51.16	74	-22.84
11400	30.21	AV	176	2.3	H	7.26	37.47	54	-16.53
11400	44.52	PK	132	1.8	V	7.26	51.78	74	-22.22
11400	30.59	AV	132	1.8	V	7.26	37.85	54	-16.15

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5500MHz									
5460	63.99	PK	220	1.7	H	-2.26	61.73	74	-12.27
5460	50.66	AV	220	1.7	H	-2.26	48.4	54	-5.6
5460	64.4	PK	277	1.8	V	-2.26	62.14	74	-11.86
5460	50.78	AV	277	1.8	V	-2.26	48.52	54	-5.48
5470	65.73	PK	328	2.1	H	-2.22	63.51	68.2	-4.69
5470	66.28	PK	30	1.2	V	-2.22	64.06	68.2	-4.14
11000	40.41	PK	299	1.1	H	9.67	50.08	74	-23.92
11000	26.88	AV	299	1.1	H	9.67	36.55	54	-17.45
11000	40.73	PK	42	1.6	V	9.67	50.4	74	-23.6
11000	27.17	AV	42	1.6	V	9.67	36.84	54	-17.16
5580MHz									
11160	41.75	PK	96	2.3	H	8.68	50.43	74	-23.57
11160	28.48	AV	96	2.3	H	8.68	37.16	54	-16.84
11160	42.29	PK	62	2.3	V	8.68	50.97	74	-23.03
11160	28.66	AV	62	2.3	V	8.68	37.34	54	-16.66
5700MHz									
5725	66.59	PK	171	2.3	H	-1.96	64.63	68.2	-3.57
5725	66.82	PK	143	1.8	V	-1.96	64.86	68.2	-3.34
5745	64.35	PK	26	1.3	H	-1.91	62.44	68.2	-5.76
5745	64.62	PK	17	1	V	-1.91	62.71	68.2	-5.49
11400	44.22	PK	299	2.2	H	7.26	51.48	74	-22.52
11400	30.49	AV	299	2.2	H	7.26	37.75	54	-16.25
11400	44.66	PK	65	1.1	V	7.26	51.92	74	-22.08
11400	30.75	AV	65	1.1	V	7.26	38.01	54	-15.99

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5510MHz									
5460	64.76	PK	216	2	H	-2.26	62.5	74	-11.5
5460	51.27	AV	216	2	H	-2.26	49.01	54	-4.99
5460	64.98	PK	324	1.5	V	-2.26	62.72	74	-11.28
5460	51.44	AV	324	1.5	V	-2.26	49.18	54	-4.82
5470	66.77	PK	57	1.7	H	-2.22	64.55	68.2	-3.65
5470	67.33	PK	268	2.2	V	-2.22	65.11	68.2	-3.09
11020	40.13	PK	247	2.2	H	9.57	49.7	74	-24.3
11020	26.55	AV	247	2.2	H	9.57	36.12	54	-17.88
11020	40.44	PK	9	1.9	V	9.57	50.01	74	-23.99
11020	26.78	AV	9	1.9	V	9.57	36.35	54	-17.65
5550MHz									
11100	40.46	PK	264	1.5	H	9.12	49.58	74	-24.42
11100	26.38	AV	264	1.5	H	9.12	35.5	54	-18.5
11100	40.75	PK	15	1.2	V	9.12	49.87	74	-24.13
11100	26.64	AV	15	1.2	V	9.12	35.76	54	-18.24
5670MHz									
5725	66.3	PK	35	2	H	-1.96	64.34	68.2	-3.86
5725	66.82	PK	338	1.4	V	-1.96	64.86	68.2	-3.34
5745	64.83	PK	345	1.4	H	-1.91	62.92	68.2	-5.28
5745	65.02	PK	308	1.3	V	-1.91	63.11	68.2	-5.09
11340	43.09	PK	206	1.1	H	7.67	50.76	74	-23.24
11340	29.01	AV	206	1.1	H	7.67	36.68	54	-17.32
11340	43.47	PK	38	2.3	V	7.67	51.14	74	-22.86
11340	29.3	AV	38	2.3	V	7.67	36.97	54	-17.03

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5500MHz									
5460	64.02	PK	47	1	H	-2.26	61.76	74	-12.24
5460	50.54	AV	47	1	H	-2.26	48.28	54	-5.72
5460	64.49	PK	100	1.1	V	-2.26	62.23	74	-11.77
5460	50.67	AV	100	1.1	V	-2.26	48.41	54	-5.59
5470	65.74	PK	9	1.8	H	-2.22	63.52	68.2	-4.68
5470	66.47	PK	44	1	V	-2.22	64.25	68.2	-3.95
11000	40.3	PK	167	1.6	H	9.67	49.97	74	-24.03
11000	26.83	AV	167	1.6	H	9.67	36.5	54	-17.5
11000	40.67	PK	269	1.5	V	9.67	50.34	74	-23.66
11000	27.12	AV	269	1.5	V	9.67	36.79	54	-17.21
5580MHz									
11160	41.87	PK	101	1.7	H	8.68	50.55	74	-23.45
11160	28.16	AV	101	1.7	H	8.68	36.84	54	-17.16
11160	42.29	PK	323	2.2	V	8.68	50.97	74	-23.03
11160	28.35	AV	323	2.2	V	8.68	37.03	54	-16.97
5700MHz									
5725	66.16	PK	262	2.2	H	-1.96	64.2	68.2	-4
5725	66.82	PK	9	1.8	V	-1.96	64.86	68.2	-3.34
5745	64.64	PK	285	1.2	H	-1.91	62.73	68.2	-5.47
5745	64.82	PK	126	1.2	V	-1.91	62.91	68.2	-5.29
11400	44.29	PK	41	1.2	H	7.26	51.55	74	-22.45
11400	30.4	AV	41	1.2	H	7.26	37.66	54	-16.34
11400	44.54	PK	190	2.5	V	7.26	51.8	74	-22.2
11400	30.61	AV	190	2.5	V	7.26	37.87	54	-16.13

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5510MHz									
5460	65	PK	251	1.2	H	-2.26	62.74	74	-11.26
5460	51.37	AV	251	1.2	H	-2.26	49.11	54	-4.89
5460	65.21	PK	194	2.4	V	-2.26	62.95	74	-11.05
5460	51.68	AV	194	2.4	V	-2.26	49.42	54	-4.58
5470	67.03	PK	273	1	H	-2.22	64.81	68.2	-3.39
5470	67.36	PK	280	2.3	V	-2.22	65.14	68.2	-3.06
11020	40.31	PK	279	1.9	H	9.57	49.88	74	-24.12
11020	26.98	AV	279	1.9	H	9.57	36.55	54	-17.45
11020	40.57	PK	262	1.5	V	9.57	50.14	74	-23.86
11020	27.13	AV	262	1.5	V	9.57	36.7	54	-17.3
5550MHz									
11100	40.31	PK	28	1.8	H	9.12	49.43	74	-24.57
11100	26.75	AV	28	1.8	H	9.12	35.87	54	-18.13
11100	40.66	PK	308	1.2	V	9.12	49.78	74	-24.22
11100	26.89	AV	308	1.2	V	9.12	36.01	54	-17.99
5670MHz									
5725	66.5	PK	30	1.3	H	-1.96	64.54	68.2	-3.66
5725	67.07	PK	64	1.3	V	-1.96	65.11	68.2	-3.09
5745	64.58	PK	165	1.1	H	-1.91	62.67	68.2	-5.53
5745	64.79	PK	131	2.5	V	-1.91	62.88	68.2	-5.32
11340	43.1	PK	150	2.5	H	7.67	50.77	74	-23.23
11340	29.45	AV	150	2.5	H	7.67	37.12	54	-16.88
11340	43.47	PK	206	2	V	7.67	51.14	74	-22.86
11340	29.71	AV	206	2	V	7.67	37.38	54	-16.62

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5530MHz									
5460	65.09	PK	310	1	H	-2.26	62.83	74	-11.17
5460	52.3	AV	310	1	H	-2.26	50.04	54	-3.96
5460	65.28	PK	173	1.3	V	-2.26	63.02	74	-10.98
5460	52.67	AV	173	1.3	V	-2.26	50.41	54	-3.59
5470	67.06	PK	228	1.9	H	-2.22	64.84	68.2	-3.36
5470	67.31	PK	328	1.4	V	-2.22	65.09	68.2	-3.11
11060	39.46	PK	65	1.6	H	9.37	48.83	74	-25.17
11060	26.59	AV	65	1.6	H	9.37	35.96	54	-18.04
11060	39.74	PK	97	1.2	V	9.37	49.11	74	-24.89
11060	26.77	AV	97	1.2	V	9.37	36.14	54	-17.86
5610MHz									
5725	66.33	PK	135	1.3	H	-1.96	64.37	68.2	-3.83
5725	66.82	PK	61	1.5	V	-1.96	64.86	68.2	-3.34
5745	64.59	PK	186	2.4	H	-1.91	62.68	68.2	-5.52
5745	64.83	PK	131	1.2	V	-1.91	62.92	68.2	-5.28
11220	41.95	PK	22	2.5	H	8.33	50.28	74	-23.72
11220	28.77	AV	22	2.5	H	8.33	37.1	54	-16.9
11220	42.4	PK	26	2.5	V	8.33	50.73	74	-23.27
11220	29.04	AV	26	2.5	V	8.33	37.37	54	-16.63

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC160									
5570MHz									
5460	64.99	PK	360	2.1	H	-2.26	62.73	74	-11.27
5460	52.91	AV	360	2.1	H	-2.26	50.65	54	-3.35
5460	65.22	PK	180	1.9	V	-2.26	62.96	74	-11.04
5460	53.18	AV	180	1.9	V	-2.26	50.92	54	-3.08
5470	67.22	PK	310	2.3	H	-2.22	65	68.2	-3.2
5470	67.41	PK	122	1.6	V	-2.22	65.19	68.2	-3.01
5725	66.59	PK	142	1.8	H	-1.96	64.63	68.2	-3.57
5725	67.08	PK	225	2.2	V	-1.96	65.12	68.2	-3.08
5745	64.65	PK	72	2.1	H	-1.91	62.74	68.2	-5.46
5745	64.86	PK	15	2.4	V	-1.91	62.95	68.2	-5.25
11140	40.57	PK	10	1.5	H	8.74	49.31	74	-24.69
11140	27.3	AV	10	1.5	H	8.74	36.04	54	-17.96
11140	40.85	PK	262	2	V	8.74	49.59	74	-24.41
11140	27.43	AV	262	2	V	8.74	36.17	54	-17.83

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20_242Tone_RU61 (Worst Case)									
5500MHz									
5460	64.76	PK	339	2.1	H	-2.26	62.5	74	-11.5
5460	50.45	AV	339	2.1	H	-2.26	48.19	54	-5.81
5460	65	PK	24	1.5	V	-2.26	62.74	74	-11.26
5460	50.67	AV	24	1.5	V	-2.26	48.41	54	-5.59
5470	65.98	PK	266	2.2	H	-2.22	63.76	68.2	-4.44
5470	66.54	PK	133	2.2	V	-2.22	64.32	68.2	-3.88
11000	40.35	PK	122	1.7	H	9.67	50.02	74	-23.98
11000	26.74	AV	122	1.7	H	9.67	36.41	54	-17.59
11000	40.81	PK	46	1.3	V	9.67	50.48	74	-23.52
11000	26.98	AV	46	1.3	V	9.67	36.65	54	-17.35
5580MHz									
11160	41.66	PK	15	2.1	H	8.68	50.34	74	-23.66
11160	28.17	AV	15	2.1	H	8.68	36.85	54	-17.15
11160	41.99	PK	175	1.6	V	8.68	50.67	74	-23.33
11160	28.38	AV	175	1.6	V	8.68	37.06	54	-16.94
5700MHz									
5725	66.49	PK	344	1.1	H	-1.96	64.53	68.2	-3.67
5725	66.8	PK	170	1.2	V	-1.96	64.84	68.2	-3.36
5745	64.58	PK	113	2	H	-1.91	62.67	68.2	-5.53
5745	64.81	PK	216	2.3	V	-1.91	62.9	68.2	-5.3
11400	43.98	PK	108	1.3	H	7.26	51.24	74	-22.76
11400	30.24	AV	108	1.3	H	7.26	37.5	54	-16.5
11400	44.45	PK	219	1.5	V	7.26	51.71	74	-22.29
11400	30.52	AV	219	1.5	V	7.26	37.78	54	-16.22

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40_484Tone_RU65 (Worst Case)									
5510MHz									
5460	64.91	PK	71	1.1	H	-2.26	62.65	74	-11.35
5460	51.4	AV	71	1.1	H	-2.26	49.14	54	-4.86
5460	65.09	PK	285	1.7	V	-2.26	62.83	74	-11.17
5460	51.56	AV	285	1.7	V	-2.26	49.3	54	-4.7
5470	67.14	PK	234	1.4	H	-2.22	64.92	68.2	-3.28
5470	67.38	PK	28	1.7	V	-2.22	65.16	68.2	-3.04
11020	40.37	PK	1	2.2	H	9.57	49.94	74	-24.06
11020	26.7	AV	1	2.2	H	9.57	36.27	54	-17.73
11020	40.65	PK	173	1.7	V	9.57	50.22	74	-23.78
11020	26.86	AV	173	1.7	V	9.57	36.43	54	-17.57
5550MHz									
11100	40.55	PK	69	1.8	H	9.12	49.67	74	-24.33
11100	26.46	AV	69	1.8	H	9.12	35.58	54	-18.42
11100	40.79	PK	153	2.4	V	9.12	49.91	74	-24.09
11100	26.68	AV	153	2.4	V	9.12	35.8	54	-18.2
5670MHz									
5725	66.67	PK	35	1.2	H	-1.96	64.71	68.2	-3.49
5725	67.1	PK	191	1	V	-1.96	65.14	68.2	-3.06
5745	64.93	PK	323	2.2	H	-1.91	63.02	68.2	-5.18
5745	65.14	PK	193	1.9	V	-1.91	63.23	68.2	-4.97
11340	43.13	PK	120	2.4	H	7.67	50.8	74	-23.2
11340	29.05	AV	120	2.4	H	7.67	36.72	54	-17.28
11340	43.51	PK	351	1.5	V	7.67	51.18	74	-22.82
11340	29.38	AV	351	1.5	V	7.67	37.05	54	-16.95

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80_996Tone_RU67(Worst Case)									
5530MHz									
5460	65.02	PK	280	2	H	-2.26	62.76	74	-11.24
5460	51.65	AV	280	2	H	-2.26	49.39	54	-4.61
5460	65.17	PK	124	1.1	V	-2.26	62.91	74	-11.09
5460	52.51	AV	124	1.1	V	-2.26	50.25	54	-3.75
5470	67.15	PK	342	1.6	H	-2.22	64.93	68.2	-3.27
5470	67.42	PK	315	1.9	V	-2.22	65.2	68.2	-3
11060	39.72	PK	177	1.6	H	9.37	49.09	74	-24.91
11060	26.17	AV	177	1.6	H	9.37	35.54	54	-18.46
11060	39.98	PK	63	1.4	V	9.37	49.35	74	-24.65
11060	26.41	AV	63	1.4	V	9.37	35.78	54	-18.22
5610MHz									
5725	66.73	PK	9	2.5	H	-1.96	64.77	68.2	-3.43
5725	67.04	PK	360	1.6	V	-1.96	65.08	68.2	-3.12
5745	64.77	PK	95	1.9	H	-1.91	62.86	68.2	-5.34
5745	65.02	PK	272	1.6	V	-1.91	63.11	68.2	-5.09
11220	42.1	PK	133	2.1	H	8.33	50.43	74	-23.57
11220	28.31	AV	133	2.1	H	8.33	36.64	54	-17.36
11220	42.45	PK	186	2.2	V	8.33	50.78	74	-23.22
11220	28.52	AV	186	2.2	V	8.33	36.85	54	-17.15

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax160_2*996Tone_RU68(Worst Case)									
5570MHz									
5460	65.07	PK	254	2.4	H	-2.26	62.81	74	-11.19
5460	52	AV	254	2.4	H	-2.26	49.74	54	-4.26
5460	65.26	PK	245	2	V	-2.26	63	74	-11
5460	52.88	AV	245	2	V	-2.26	50.62	54	-3.38
5470	67.07	PK	303	1.9	H	-2.22	64.85	68.2	-3.35
5470	67.38	PK	94	1.8	V	-2.22	65.16	68.2	-3.04
5725	66.9	PK	52	2.2	H	-1.96	64.94	68.2	-3.26
5725	67.16	PK	106	1.2	V	-1.96	65.2	68.2	-3
5745	64.78	PK	265	1.8	H	-1.91	62.87	68.2	-5.33
5745	65.02	PK	111	2.3	V	-1.91	63.11	68.2	-5.09
11140	40.7	PK	229	1.5	H	8.74	49.44	74	-24.56
11140	27.03	AV	229	1.5	H	8.74	35.77	54	-18.23
11140	40.97	PK	298	1.1	V	8.74	49.71	74	-24.29
11140	27.26	AV	298	1.1	V	8.74	36	54	-18

5725-5850 MHz:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5745MHz									
5650	65.8	PK	164	2.5	H	-1.95	63.85	68.2	-4.35
5700	66.44	PK	308	2.2	H	-2.02	64.42	105.2	-40.78
5720	67.08	PK	53	2.2	H	-1.97	65.11	110.8	-45.69
5725	70	PK	355	1.8	H	-1.96	68.04	122.2	-54.16
5650	65.69	PK	222	2.3	V	-1.95	63.74	68.2	-4.46
5700	66.53	PK	236	1.2	V	-2.02	64.51	105.2	-40.69
5720	66.93	PK	120	1.9	V	-1.97	64.96	110.8	-45.84
5725	68.19	PK	90	1.1	V	-1.96	66.23	122.2	-55.97
11490	42.56	PK	183	1.4	H	6.63	49.19	74	-24.81
11490	29.18	AV	183	1.4	H	6.63	35.81	54	-18.19
11490	42.97	PK	337	1.5	V	6.63	49.6	74	-24.4
11490	29.43	AV	337	1.5	V	6.63	36.06	54	-17.94
5785MHz									
11570	43.61	PK	227	2.3	H	6.59	50.2	74	-23.8
11570	30.34	AV	227	2.3	H	6.59	36.93	54	-17.07
11570	43.87	PK	159	2.2	V	6.59	50.46	74	-23.54
11570	30.58	AV	159	2.2	V	6.59	37.17	54	-16.83
5825MHz									
5850	69.05	PK	234	1.6	H	-1.81	67.24	122.2	-54.96
5855	67.91	PK	27	1.9	H	-1.82	66.09	110.8	-44.71
5875	67.39	PK	54	1.3	H	-1.84	65.55	105.2	-39.65
5925	66.72	PK	306	1	H	-1.82	64.9	68.2	-3.3
5850	68.33	PK	239	2.1	V	-1.81	66.52	122.2	-55.68
5855	67.75	PK	276	1.5	V	-1.82	65.93	110.8	-44.87
5875	67.15	PK	157	1.6	V	-1.84	65.31	105.2	-39.89
5925	66.61	PK	304	1.3	V	-1.82	64.79	68.2	-3.41
11650	42.25	PK	175	1.1	H	6.77	49.02	74	-24.98
11650	28.87	AV	175	1.1	H	6.77	35.64	54	-18.36
11650	42.56	PK	122	1.9	V	6.77	49.33	74	-24.67
11650	29.12	AV	122	1.9	V	6.77	35.89	54	-18.11

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5745MHz									
5650	65.98	PK	202	2.1	H	-1.95	64.03	68.2	-4.17
5700	66.67	PK	302	1.1	H	-2.02	64.65	105.2	-40.55
5720	67.41	PK	131	2.2	H	-1.97	65.44	110.8	-45.36
5725	72.22	PK	277	1.5	H	-1.96	70.26	122.2	-51.94
5650	65.87	PK	191	1.8	V	-1.95	63.92	68.2	-4.28
5700	66.55	PK	168	1	V	-2.02	64.53	105.2	-40.67
5720	67.24	PK	23	1.7	V	-1.97	65.27	110.8	-45.53
5725	69.34	PK	278	2.4	V	-1.96	67.38	122.2	-54.82
11490	42.79	PK	233	1.9	H	6.63	49.42	74	-24.58
11490	29.35	AV	233	1.9	H	6.63	35.98	54	-18.02
11490	43.16	PK	298	2.1	V	6.63	49.79	74	-24.21
11490	29.58	AV	298	2.1	V	6.63	36.21	54	-17.79
5785MHz									
11570	43.78	PK	171	1.8	H	6.59	50.37	74	-23.63
11570	30.46	AV	171	1.8	H	6.59	37.05	54	-16.95
11570	44.11	PK	134	1.8	V	6.59	50.7	74	-23.3
11570	30.69	AV	134	1.8	V	6.59	37.28	54	-16.72
5825MHz									
5850	69.1	PK	57	2	H	-1.81	67.29	122.2	-54.91
5855	67.84	PK	145	1.7	H	-1.82	66.02	110.8	-44.78
5875	67.45	PK	226	2	H	-1.84	65.61	105.2	-39.59
5925	66.76	PK	291	2	H	-1.82	64.94	68.2	-3.26
5850	68.54	PK	229	2.4	V	-1.81	66.73	122.2	-55.47
5855	67.67	PK	7	2	V	-1.82	65.85	110.8	-44.95
5875	67.24	PK	26	1.6	V	-1.84	65.4	105.2	-39.8
5925	66.64	PK	79	2.3	V	-1.82	64.82	68.2	-3.38
11650	42.55	PK	65	2.3	H	6.77	49.32	74	-24.68
11650	29.14	AV	65	2.3	H	6.77	35.91	54	-18.09
11650	42.8	PK	244	1.9	V	6.77	49.57	74	-24.43
11650	29.43	AV	244	1.9	V	6.77	36.2	54	-17.8

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5755MHz									
5650	65.88	PK	275	1.9	H	-1.95	63.93	68.2	-4.27
5700	66.84	PK	322	2.2	H	-2.02	64.82	105.2	-40.38
5720	71.14	PK	157	1.9	H	-1.97	69.17	110.8	-41.63
5725	72.9	PK	46	1.1	H	-1.96	70.94	122.2	-51.26
5650	65.75	PK	241	2.3	V	-1.95	63.8	68.2	-4.4
5700	66.69	PK	267	2.4	V	-2.02	64.67	105.2	-40.53
5720	69.5	PK	241	1.1	V	-1.97	67.53	110.8	-43.27
5725	71.24	PK	8	1	V	-1.96	69.28	122.2	-52.92
11510	43.1	PK	287	1.9	H	6.59	49.69	74	-24.31
11510	29.69	AV	287	1.9	H	6.59	36.28	54	-17.72
11510	43.51	PK	246	1.3	V	6.59	50.1	74	-23.9
11510	29.92	AV	246	1.3	V	6.59	36.51	54	-17.49
5795MHz									
5850	68.87	PK	243	2.4	H	-1.81	67.06	122.2	-55.14
5855	67.71	PK	307	2.1	H	-1.82	65.89	110.8	-44.91
5875	67.42	PK	344	1.4	H	-1.84	65.58	105.2	-39.62
5925	66.77	PK	81	1.2	H	-1.82	64.95	68.2	-3.25
5850	68.39	PK	227	1.7	V	-1.81	66.58	122.2	-55.62
5855	67.64	PK	329	1	V	-1.82	65.82	110.8	-44.98
5875	67.34	PK	96	2.5	V	-1.84	65.5	105.2	-39.7
5925	66.65	PK	262	1.3	V	-1.82	64.83	68.2	-3.37
11590	43.69	PK	47	1.4	H	6.57	50.26	74	-23.74
11590	30.08	AV	47	1.4	H	6.57	36.65	54	-17.35
11590	44.01	PK	350	2.3	V	6.57	50.58	74	-23.42
11590	30.26	AV	350	2.3	V	6.57	36.83	54	-17.17

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5745MHz									
5650	66.02	PK	232	1.2	H	-1.95	64.07	68.2	-4.13
5700	66.56	PK	356	1.1	H	-2.02	64.54	105.2	-40.66
5720	67.35	PK	96	1.6	H	-1.97	65.38	110.8	-45.42
5725	71.16	PK	352	1.7	H	-1.96	69.2	122.2	-53
5650	65.9	PK	163	2.1	V	-1.95	63.95	68.2	-4.25
5700	66.44	PK	286	2.4	V	-2.02	64.42	105.2	-40.78
5720	67.08	PK	219	2.4	V	-1.97	65.11	110.8	-45.69
5725	69.82	PK	290	1.9	V	-1.96	67.86	122.2	-54.34
11490	42.88	PK	317	1.4	H	6.63	49.51	74	-24.49
11490	29.42	AV	317	1.4	H	6.63	36.05	54	-17.95
11490	43.39	PK	54	1.9	V	6.63	50.02	74	-23.98
11490	29.65	AV	54	1.9	V	6.63	36.28	54	-17.72
5785MHz									
11570	43.54	PK	230	1.5	H	6.59	50.13	74	-23.87
11570	29.87	AV	230	1.5	H	6.59	36.46	54	-17.54
11570	43.95	PK	42	1.4	V	6.59	50.54	74	-23.46
11570	30.11	AV	42	1.4	V	6.59	36.7	54	-17.3
5825MHz									
5850	68.72	PK	119	2.3	H	-1.81	66.91	122.2	-55.29
5855	68.04	PK	93	1.3	H	-1.82	66.22	110.8	-44.58
5875	67.49	PK	9	1.9	H	-1.84	65.65	105.2	-39.55
5925	66.71	PK	100	1.3	H	-1.82	64.89	68.2	-3.31
5850	68.25	PK	8	1.9	V	-1.81	66.44	122.2	-55.76
5855	67.83	PK	231	2.5	V	-1.82	66.01	110.8	-44.79
5875	67.34	PK	167	2	V	-1.84	65.5	105.2	-39.7
5925	66.6	PK	87	1.6	V	-1.82	64.78	68.2	-3.42
11650	42.25	PK	97	2.2	H	6.77	49.02	74	-24.98
11650	28.48	AV	97	2.2	H	6.77	35.25	54	-18.75
11650	42.69	PK	249	1.7	V	6.77	49.46	74	-24.54
11650	28.77	AV	249	1.7	V	6.77	35.54	54	-18.46

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5755MHz									
5650	66.06	PK	175	1.5	H	-1.95	64.11	68.2	-4.09
5700	66.94	PK	247	1.9	H	-2.02	64.92	105.2	-40.28
5720	71.74	PK	272	2.3	H	-1.97	69.77	110.8	-41.03
5725	73.4	PK	124	1.3	H	-1.96	71.44	122.2	-50.76
5650	65.95	PK	23	2.2	V	-1.95	64	68.2	-4.2
5700	66.8	PK	277	1.9	V	-2.02	64.78	105.2	-40.42
5720	69.84	PK	17	1.3	V	-1.97	67.87	110.8	-42.93
5725	71.91	PK	242	1	V	-1.96	69.95	122.2	-52.25
11510	43.56	PK	279	1.5	H	6.59	50.15	74	-23.85
11510	30.07	AV	279	1.5	H	6.59	36.66	54	-17.34
11510	43.92	PK	240	1.2	V	6.59	50.51	74	-23.49
11510	30.25	AV	240	1.2	V	6.59	36.84	54	-17.16
5795MHz									
5850	69.39	PK	209	2.1	H	-1.81	67.58	122.2	-54.62
5855	68.03	PK	266	2	H	-1.82	66.21	110.8	-44.59
5875	67.57	PK	307	1.2	H	-1.84	65.73	105.2	-39.47
5925	66.83	PK	252	2	H	-1.82	65.01	68.2	-3.19
5850	68.56	PK	180	1.4	V	-1.81	66.75	122.2	-55.45
5855	67.82	PK	110	2.1	V	-1.82	66	110.8	-44.8
5875	67.35	PK	355	1.2	V	-1.84	65.51	105.2	-39.69
5925	66.71	PK	13	2	V	-1.82	64.89	68.2	-3.31
11590	44.07	PK	186	1.8	H	6.57	50.64	74	-23.36
11590	30.38	AV	186	1.8	H	6.57	36.95	54	-17.05
11590	44.33	PK	301	1.5	V	6.57	50.9	74	-23.1
11590	30.59	AV	301	1.5	V	6.57	37.16	54	-16.84

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5775MHz									
5650	66.15	PK	144	2.1	H	-1.95	64.2	68.2	-4
5700	71.03	PK	52	1.1	H	-2.02	69.01	105.2	-36.19
5720	72.39	PK	119	1.3	H	-1.97	70.42	110.8	-40.38
5725	73.63	PK	78	1	H	-1.96	71.67	122.2	-50.53
5650	66.03	PK	121	2	V	-1.95	64.08	68.2	-4.12
5700	69.85	PK	304	2.1	V	-2.02	67.83	105.2	-37.37
5720	71.21	PK	277	2.5	V	-1.97	69.24	110.8	-41.56
5725	72.43	PK	64	2.3	V	-1.96	70.47	122.2	-51.73
5850	69.04	PK	78	1.6	H	-1.81	67.23	122.2	-54.97
5855	67.76	PK	198	2.3	H	-1.82	65.94	110.8	-44.86
5875	67.6	PK	319	1.8	H	-1.84	65.76	105.2	-39.44
5925	66.74	PK	292	1.8	H	-1.82	64.92	68.2	-3.28
5850	68.5	PK	314	1.5	V	-1.81	66.69	122.2	-55.51
5855	67.64	PK	276	2.4	V	-1.82	65.82	110.8	-44.98
5875	67.39	PK	258	1.6	V	-1.84	65.55	105.2	-39.65
5925	66.6	PK	248	2	V	-1.82	64.78	68.2	-3.42
11550	43.71	PK	295	1.6	H	6.61	50.32	74	-23.68
11550	30.42	AV	295	1.6	H	6.61	37.03	54	-16.97
11550	43.95	PK	133	2.2	V	6.61	50.56	74	-23.44
11550	30.64	AV	133	2.2	V	6.61	37.25	54	-16.75

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20_242Tone_RU61 (Worst Case)									
5745MHz									
5650	66.09	PK	314	1.3	H	-1.95	64.14	68.2	-4.06
5700	66.69	PK	274	1.1	H	-2.02	64.67	105.2	-40.53
5720	67.38	PK	325	1.6	H	-1.97	65.41	110.8	-45.39
5725	72.34	PK	323	1.6	H	-1.96	70.38	122.2	-51.82
5650	65.96	PK	67	1.9	V	-1.95	64.01	68.2	-4.19
5700	66.45	PK	164	2.5	V	-2.02	64.43	105.2	-40.77
5720	67.17	PK	84	1.4	V	-1.97	65.2	110.8	-45.6
5725	71.48	PK	294	2.3	V	-1.96	69.52	122.2	-52.68
11490	43.03	PK	276	2.2	H	6.63	49.66	74	-24.34
11490	29.52	AV	276	2.2	H	6.63	36.15	54	-17.85
11490	43.29	PK	143	1.3	V	6.63	49.92	74	-24.08
11490	29.8	AV	143	1.3	V	6.63	36.43	54	-17.57
5785MHz									
11570	43.51	PK	26	1.7	H	6.59	50.1	74	-23.9
11570	29.8	AV	26	1.7	H	6.59	36.39	54	-17.61
11570	43.87	PK	174	1.9	V	6.59	50.46	74	-23.54
11570	29.95	AV	174	1.9	V	6.59	36.54	54	-17.46
5825MHz									
5850	69.01	PK	130	2.4	H	-1.81	67.2	122.2	-55
5855	67.93	PK	77	2.3	H	-1.82	66.11	110.8	-44.69
5875	67.59	PK	55	1.3	H	-1.84	65.75	105.2	-39.45
5925	66.75	PK	20	1.6	H	-1.82	64.93	68.2	-3.27
5850	68.63	PK	211	1.4	V	-1.81	66.82	122.2	-55.38
5855	67.77	PK	21	2.5	V	-1.82	65.95	110.8	-44.85
5875	67.43	PK	289	1.9	V	-1.84	65.59	105.2	-39.61
5925	66.63	PK	224	2.1	V	-1.82	64.81	68.2	-3.39
11650	42.27	PK	23	1.6	H	6.77	49.04	74	-24.96
11650	28.39	AV	23	1.6	H	6.77	35.16	54	-18.84
11650	42.6	PK	103	2.4	V	6.77	49.37	74	-24.63
11650	28.62	AV	103	2.4	V	6.77	35.39	54	-18.61

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40_484Tone_RU65 (Worst Case)									
5755MHz									
5650	66.18	PK	352	2.5	H	-1.95	64.23	68.2	-3.97
5700	67.2	PK	208	1.4	H	-2.02	65.18	105.2	-40.02
5720	72.34	PK	48	2.1	H	-1.97	70.37	110.8	-40.43
5725	74	PK	296	1.4	H	-1.96	72.04	122.2	-50.16
5650	66.07	PK	138	1.6	V	-1.95	64.12	68.2	-4.08
5700	66.95	PK	32	1.5	V	-2.02	64.93	105.2	-40.27
5720	71.17	PK	330	1.8	V	-1.97	69.2	110.8	-41.6
5725	72.82	PK	194	1.6	V	-1.96	70.86	122.2	-51.34
11510	43.73	PK	88	1.8	H	6.59	50.32	74	-23.68
11510	29.92	AV	88	1.8	H	6.59	36.51	54	-17.49
11510	44.06	PK	81	1.4	V	6.59	50.65	74	-23.35
11510	30.11	AV	81	1.4	V	6.59	36.7	54	-17.3
5795MHz									
5850	69.14	PK	135	1.7	H	-1.81	67.33	122.2	-54.87
5855	68.31	PK	80	1.9	H	-1.82	66.49	110.8	-44.31
5875	67.69	PK	290	2.1	H	-1.84	65.85	105.2	-39.35
5925	66.86	PK	328	2.2	H	-1.82	65.04	68.2	-3.16
5850	68.67	PK	125	1	V	-1.81	66.86	122.2	-55.34
5855	68.06	PK	164	1.8	V	-1.82	66.24	110.8	-44.56
5875	67.45	PK	118	1.5	V	-1.84	65.61	105.2	-39.59
5925	66.74	PK	288	1.3	V	-1.82	64.92	68.2	-3.28
11590	43.96	PK	44	1.4	H	6.57	50.53	74	-23.47
11590	30.05	AV	44	1.4	H	6.57	36.62	54	-17.38
11590	44.42	PK	227	1.4	V	6.57	50.99	74	-23.01
11590	30.33	AV	227	1.4	V	6.57	36.9	54	-17.1

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80_996Tone_RU67(Worst Case)									
5775MHz									
5650	66.3	PK	134	1.6	H	-1.95	64.35	68.2	-3.85
5700	71.69	PK	124	2.4	H	-2.02	69.67	105.2	-35.53
5720	73.17	PK	78	1.1	H	-1.97	71.2	110.8	-39.6
5725	74.82	PK	311	1.4	H	-1.96	72.86	122.2	-49.34
5650	66.19	PK	333	2.3	V	-1.95	64.24	68.2	-3.96
5700	70.75	PK	345	1.7	V	-2.02	68.73	105.2	-36.47
5720	72.05	PK	215	2.5	V	-1.97	70.08	110.8	-40.72
5725	73.52	PK	185	1.6	V	-1.96	71.56	122.2	-50.64
5850	69.82	PK	266	2.1	H	-1.81	68.01	122.2	-54.19
5855	68.42	PK	37	1.3	H	-1.82	66.6	110.8	-44.2
5875	67.73	PK	282	1.1	H	-1.84	65.89	105.2	-39.31
5925	66.8	PK	36	2.3	H	-1.82	64.98	68.2	-3.22
5850	69.17	PK	316	1.1	V	-1.81	67.36	122.2	-54.84
5855	68.06	PK	81	1.6	V	-1.82	66.24	110.8	-44.56
5875	67.56	PK	210	1.1	V	-1.84	65.72	105.2	-39.48
5925	66.67	PK	227	2.2	V	-1.82	64.85	68.2	-3.35
11550	43.94	PK	283	1.3	H	6.61	50.55	74	-23.45
11550	30.25	AV	283	1.3	H	6.61	36.86	54	-17.14
11550	44.26	PK	127	2	V	6.61	50.87	74	-23.13
11550	30.53	AV	127	2	V	6.61	37.14	54	-16.86

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

5850-5895MHz band, 5725-5850MHz & 5850-5895MHz bands span channels:

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11A									
5845MHz									
5650	61.06	PK	230	1.7	H	-1.95	59.11	68.2	-9.09
5700	60.48	PK	222	1.2	H	-2.02	58.46	105.2	-46.74
5720	61.38	PK	65	2.4	H	-1.97	59.41	110.8	-51.39
5725	61.25	PK	121	1.7	H	-1.96	59.29	122.2	-62.91
5650	61.23	PK	357	1.3	V	-1.95	59.28	68.2	-8.92
5700	61.16	PK	269	1.4	V	-2.02	59.14	105.2	-46.06
5720	61.01	PK	169	2.4	V	-1.97	59.04	110.8	-51.76
5725	61.42	PK	95	2.4	V	-1.96	59.46	122.2	-62.74
11690	53.34	PK	61	1	H	6.73	60.07	74	-13.93
11690	39.38	AV	289	1	H	6.73	46.11	54	-7.89
11690	53.71	PK	157	2.4	V	6.73	60.44	74	-13.56
11690	39.36	AV	176	2.4	V	6.73	46.09	54	-7.91
5865MHz									
11730	53.93	PK	127	1.2	H	6.76	60.69	74	-13.31
11730	39.08	AV	69	1.2	H	6.76	45.84	54	-8.16
11730	53.19	PK	14	2.3	V	6.76	59.95	74	-14.05
11730	38.96	AV	257	2.3	V	6.76	45.72	54	-8.28
5885MHz									
5895	80.31	PK	7	2.4	H	-1.86	78.45	90.2	-11.75
5925	63.22	PK	46	2.4	H	-1.82	61.40	68.2	-6.80
5895	78.99	PK	106	1.4	V	-1.86	77.13	90.2	-13.07
5925	63.11	PK	181	1.7	V	-1.82	61.29	68.2	-6.91
11770	54.77	PK	336	1.9	H	6.81	61.58	74	-12.42
11770	40.07	AV	178	1.9	H	6.81	46.88	54	-7.12
11770	54.37	PK	26	2.4	V	6.81	61.18	74	-12.82
11770	39.86	AV	133	2.4	V	6.81	46.67	54	-7.33

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N20									
5845MHz									
5650	61.37	PK	258	1.6	H	-1.95	59.42	68.2	-8.78
5700	61.61	PK	21	1.7	H	-2.02	59.59	105.2	-45.61
5720	61.91	PK	164	2	H	-1.97	59.94	110.8	-50.86
5725	62.15	PK	10	1.4	H	-1.96	60.19	122.2	-62.01
5650	61.17	PK	324	1.5	V	-1.95	59.22	68.2	-8.98
5700	61.31	PK	271	2.1	V	-2.02	59.29	105.2	-45.91
5720	61.60	PK	209	1.7	V	-1.97	59.63	110.8	-51.17
5725	61.77	PK	285	2.4	V	-1.96	59.81	122.2	-62.39
11690	53.99	PK	293	1	H	6.73	60.72	74	-13.28
11690	39.59	AV	349	1	H	6.73	46.32	54	-7.68
11690	53.48	PK	55	1.1	V	6.73	60.21	74	-13.79
11690	39.40	AV	8	1.1	V	6.73	46.13	54	-7.87
5865MHz									
11730	54.37	PK	80	1	H	6.76	61.13	74	-12.87
11730	39.05	AV	283	1	H	6.76	45.81	54	-8.19
11730	53.89	PK	146	2.4	V	6.76	60.65	74	-13.35
11730	38.87	AV	81	2.4	V	6.76	45.63	54	-8.37
5885MHz									
5895	87.18	PK	67	1	H	-1.86	85.32	90.2	-4.88
5925	62.67	PK	140	1.7	H	-1.82	60.85	68.2	-7.35
5895	80.18	PK	71	1.4	V	-1.86	78.32	90.2	-11.88
5925	62.59	PK	182	1.3	V	-1.82	60.77	68.2	-7.43
11770	54.83	PK	100	1.2	H	6.81	61.64	74	-12.36
11770	40.09	AV	109	1.2	H	6.81	46.90	54	-7.10
11770	54.64	PK	355	1.5	V	6.81	61.45	74	-12.55
11770	39.76	AV	139	1.5	V	6.81	46.57	54	-7.43

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11N40									
5835MHz									
5650	61.28	PK	64	1.2	H	-1.95	59.33	68.2	-8.87
5700	61.41	PK	75	2.4	H	-2.02	59.39	105.2	-45.81
5720	61.63	PK	206	2.2	H	-1.97	59.66	110.8	-51.14
5725	61.86	PK	186	1.3	H	-1.96	59.90	122.2	-62.30
5650	61.25	PK	334	1.5	V	-1.95	59.30	68.2	-8.90
5700	61.44	PK	172	1.8	V	-2.02	59.42	105.2	-45.78
5720	61.61	PK	118	2.3	V	-1.97	59.64	110.8	-51.16
5725	61.75	PK	233	2.5	V	-1.96	59.79	122.2	-62.41
11670	54.53	PK	75	2.1	H	6.75	61.28	74	-12.72
11670	39.88	PK	15	1.5	V	6.75	46.63	54	-7.37
11670	54.02	PK	347	1.8	H	6.75	60.77	74	-13.23
11670	39.23	PK	6	1.5	V	6.75	45.98	54	-8.02
5875MHz									
5895	79.79	PK	270	2	H	-1.86	77.93	90.2	-12.27
5925	62.92	PK	306	2.4	H	-1.82	61.10	68.2	-7.10
5895	76.96	PK	208	2.3	V	-1.86	75.10	90.2	-15.10
5925	62.87	PK	6	1.6	V	-1.82	61.05	68.2	-7.15
11750	54.61	PK	360	2.4	H	6.78	61.39	74	-12.61
11750	40.06	AV	348	2.4	H	6.78	46.84	54	-7.16
11750	54.42	PK	54	1.9	V	6.78	61.20	74	-12.80
11750	39.79	AV	105	1.9	V	6.78	46.57	54	-7.43

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC20									
5845MHz									
5650	61.32	PK	105	1.4	H	-1.95	59.37	68.2	-8.83
5700	61.52	PK	184	2.3	H	-2.02	59.50	105.2	-45.70
5720	61.78	PK	88	1.8	H	-1.97	59.81	110.8	-50.99
5725	61.88	PK	56	1.4	H	-1.96	59.92	122.2	-62.28
5650	61.31	PK	12	2.4	V	-1.95	59.36	68.2	-8.84
5700	61.51	PK	131	2.2	V	-2.02	59.49	105.2	-45.71
5720	61.68	PK	208	2.1	V	-1.97	59.71	110.8	-51.09
5725	61.80	PK	177	2.2	V	-1.96	59.84	122.2	-62.36
11690	53.45	PK	318	1.2	H	6.73	60.18	74	-13.82
11690	39.31	AV	44	1.2	H	6.73	46.04	54	-7.96
11690	53.88	PK	209	1.8	V	6.73	60.61	74	-13.39
11690	39.56	AV	284	1.8	V	6.73	46.29	54	-7.71
5865MHz									
11730	54.11	PK	38	1.3	H	6.76	60.87	74	-13.13
11730	39.10	AV	116	1.3	H	6.76	45.86	54	-8.14
11730	53.93	PK	207	1.3	V	6.76	60.69	74	-13.31
11730	38.78	AV	274	1.3	V	6.76	45.54	54	-8.46
5885MHz									
5895	88.30	PK	76	1.7	H	-1.86	86.44	90.2	-3.76
5925	62.82	PK	320	1.1	H	-1.82	61.00	68.2	-7.20
5895	84.79	PK	101	1.5	V	-1.86	82.93	90.2	-7.27
5925	62.77	PK	100	2.3	V	-1.82	60.95	68.2	-7.25
11770	55.01	PK	232	2.4	H	6.81	61.82	74	-12.18
11770	40.11	AV	358	2.4	H	6.81	46.92	54	-7.08
11770	54.85	PK	323	2.2	V	6.81	61.66	74	-12.34
11770	39.76	AV	174	2.2	V	6.81	46.57	54	-7.43

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC40									
5835MHz									
5650	61.37	PK	183	1.6	H	-1.95	59.42	68.2	-8.78
5700	61.51	PK	115	1.9	H	-2.02	59.49	105.2	-45.71
5720	61.63	PK	223	1.5	H	-1.97	59.66	110.8	-51.14
5725	61.67	PK	298	1.6	H	-1.96	59.71	122.2	-62.49
5650	61.24	PK	100	1.1	V	-1.95	59.29	68.2	-8.91
5700	61.42	PK	81	2.4	V	-2.02	59.40	105.2	-45.80
5720	61.55	PK	276	2.2	V	-1.97	59.58	110.8	-51.22
5725	61.60	PK	166	2.5	V	-1.96	59.64	122.2	-62.56
11670	55.36	PK	70	2.3	H	6.75	62.11	74	-11.89
11670	40.13	PK	268	2.1	V	6.75	46.88	54	-7.12
11670	55.13	PK	256	1	H	6.75	61.88	74	-12.12
11670	39.66	PK	81	1.8	V	6.75	46.41	54	-7.59
5875MHz									
5895	80.35	PK	163	1.1	H	-1.86	78.49	90.2	-11.71
5925	63.06	PK	214	1.3	H	-1.82	61.24	68.2	-6.96
5895	76.90	PK	39	1.7	V	-1.86	75.04	90.2	-15.16
5925	62.94	PK	121	2.3	V	-1.82	61.12	68.2	-7.08
11750	55.28	PK	333	1.8	H	6.78	62.06	74	-11.94
11750	40.04	AV	325	1.8	H	6.78	46.82	54	-7.18
11750	55.09	PK	72	2.2	V	6.78	61.87	74	-12.13
11750	39.77	AV	78	2.2	V	6.78	46.55	54	-7.45

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC80									
5855MHz									
5650	61.54	PK	40	2.1	H	-1.95	59.59	68.2	-8.61
5700	61.86	PK	199	1.4	H	-2.02	59.84	105.2	-45.36
5720	62.17	PK	150	1.6	H	-1.97	60.20	110.8	-50.60
5725	62.72	PK	108	1	H	-1.96	60.76	122.2	-61.44
5650	61.34	PK	321	1.2	V	-1.95	59.39	68.2	-8.81
5700	61.52	PK	193	2	V	-2.02	59.50	105.2	-45.70
5720	61.63	PK	354	2	V	-1.97	59.66	110.8	-51.14
5725	61.74	PK	276	1.9	V	-1.96	59.78	122.2	-62.42
5895	79.39	PK	287	1.9	H	-1.86	77.53	90.2	-12.67
5925	62.97	PK	35	2.3	H	-1.82	61.15	68.2	-7.05
5895	71.11	PK	157	2.5	V	-1.86	69.25	90.2	-20.95
5925	62.89	PK	271	1.6	V	-1.82	61.07	68.2	-7.13
11710	53.52	PK	292	1.4	H	6.73	60.25	74	-13.75
11710	38.91	AV	355	1.4	H	6.73	45.64	54	-8.36
11710	53.30	PK	158	1.8	V	6.73	60.03	74	-13.97
11710	38.73	AV	224	1.8	V	6.73	45.46	54	-8.54

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11AC160									
5815MHz									
5650	61.35	PK	34	1.4	H	-1.95	59.40	68.2	-8.80
5700	61.64	PK	26	1.5	H	-2.02	59.62	105.2	-45.58
5720	62.77	PK	218	1.7	H	-1.97	60.80	110.8	-50.00
5725	63.42	PK	335	1.6	H	-1.96	61.46	122.2	-60.74
5650	61.34	PK	313	1.8	V	-1.95	59.39	68.2	-8.81
5700	61.52	PK	63	1.7	V	-2.02	59.50	105.2	-45.70
5720	61.69	PK	207	2	V	-1.97	59.72	110.8	-51.08
5725	61.80	PK	349	2.5	V	-1.96	59.84	122.2	-62.36
5895	79.85	PK	162	1.6	H	-1.86	77.99	90.2	-12.21
5925	63.94	PK	144	2.1	H	-1.82	62.12	68.2	-6.08
5895	75.71	PK	39	2.5	V	-1.86	73.85	90.2	-16.35
5925	63.50	PK	115	1.9	V	-1.82	61.68	68.2	-6.52
11630	53.83	PK	322	2.4	H	6.69	60.52	74	-13.48
11630	39.07	AV	244	2.4	H	6.69	45.76	54	-8.24
11630	53.68	PK	119	2.1	V	6.69	60.37	74	-13.63
11630	38.84	AV	105	2.1	V	6.69	45.53	54	-8.47

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax20_242Tone_RU61 (Worst Case)									
5845MHz									
5650	61.34	PK	352	2.2	H	-1.95	59.39	68.2	-8.81
5700	61.65	PK	267	2	H	-2.02	59.63	105.2	-45.57
5720	61.85	PK	99	1.2	H	-1.97	59.88	110.8	-50.92
5725	62.02	PK	276	1.4	H	-1.96	60.06	122.2	-62.14
5650	61.32	PK	109	2.3	V	-1.95	59.37	68.2	-8.83
5700	61.55	PK	313	1.9	V	-2.02	59.53	105.2	-45.67
5720	61.79	PK	48	2.3	V	-1.97	59.82	110.8	-50.98
5725	61.95	PK	164	1.7	V	-1.96	59.99	122.2	-62.21
11690	53.35	PK	82	1.4	H	6.73	60.08	74	-13.92
11690	39.29	AV	323	1.4	H	6.73	46.02	54	-7.98
11690	53.54	PK	246	2.2	V	6.73	60.27	74	-13.73
11690	39.23	AV	118	2.2	V	6.73	45.96	54	-8.04
5865MHz									
11730	53.42	PK	251	1.5	H	6.76	60.18	74	-13.82
11730	39.10	AV	192	1.5	H	6.76	45.86	54	-8.14
11730	53.17	PK	107	1.1	V	6.76	59.93	74	-14.07
11730	38.78	AV	289	1.1	V	6.76	45.54	54	-8.46
5885MHz									
5895	91.06	PK	8	1.8	H	-1.86	89.20	90.2	-1.00
5925	62.84	PK	130	2.4	H	-1.82	61.02	68.2	-7.18
5895	90.85	PK	103	2.1	V	-1.86	88.99	90.2	-1.21
5925	62.76	PK	227	1.9	V	-1.82	60.94	68.2	-7.26
11770	54.65	PK	123	1.6	H	6.81	61.46	74	-12.54
11770	40.15	AV	92	1.6	H	6.81	46.96	54	-7.04
11770	54.39	PK	202	2.3	V	6.81	61.20	74	-12.80
11770	39.96	AV	271	2.3	V	6.81	46.77	54	-7.23

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax40_484Tone_RU65 (Worst Case)									
5835MHz									
5650	61.34	PK	161	1.8	H	-1.95	59.39	68.2	-8.81
5700	61.52	PK	217	1.3	H	-2.02	59.50	105.2	-45.70
5720	61.70	PK	3	1.1	H	-1.97	59.73	110.8	-51.07
5725	61.72	PK	19	1.5	H	-1.96	59.76	122.2	-62.44
5650	61.25	PK	309	1.6	V	-1.95	59.30	68.2	-8.90
5700	61.45	PK	228	2	V	-2.02	59.43	105.2	-45.77
5720	61.56	PK	265	2.1	V	-1.97	59.59	110.8	-51.21
5725	61.62	PK	313	1.7	V	-1.96	59.66	122.2	-62.54
11670	54.38	PK	254	2.4	H	6.75	61.13	74	-12.87
11670	39.81	PK	251	2.4	V	6.75	46.56	54	-7.44
11670	54.07	PK	31	1.4	H	6.75	60.82	74	-13.18
11670	39.52	PK	211	1.2	V	6.75	46.27	54	-7.73
5875MHz									
5895	86.26	PK	249	1.4	H	-1.86	84.40	90.2	-5.80
5925	62.44	PK	131	1.5	H	-1.82	60.62	68.2	-7.58
5895	78.02	PK	290	1.6	V	-1.86	76.16	90.2	-14.04
5925	62.41	PK	160	2	V	-1.82	60.59	68.2	-7.61
11750	54.70	PK	98	1.2	H	6.78	61.48	74	-12.52
11750	40.08	AV	249	1.2	H	6.78	46.86	54	-7.14
11750	54.43	PK	40	1.9	V	6.78	61.21	74	-12.79
11750	39.89	AV	69	1.9	V	6.78	46.67	54	-7.33

Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax80_996Tone_RU67(Worst Case)									
5855MHz									
5650	61.45	PK	237	1.9	H	-1.95	59.50	68.2	-8.70
5700	61.64	PK	246	2.3	H	-2.02	59.62	105.2	-45.58
5720	61.78	PK	224	1.5	H	-1.97	59.81	110.8	-50.99
5725	61.89	PK	187	1.4	H	-1.96	59.93	122.2	-62.27
5650	61.36	PK	96	1.9	V	-1.95	59.41	68.2	-8.79
5700	61.48	PK	314	1.1	V	-2.02	59.46	105.2	-45.74
5720	61.57	PK	356	2.1	V	-1.97	59.60	110.8	-51.20
5725	61.69	PK	113	1.2	V	-1.96	59.73	122.2	-62.47
5895	83.28	PK	249	1.5	H	-1.86	81.42	90.2	-8.78
5925	63.51	PK	50	2.5	H	-1.82	61.69	68.2	-6.51
5895	81.25	PK	92	1.6	V	-1.86	79.39	90.2	-10.81
5925	63.36	PK	248	1.7	V	-1.82	61.54	68.2	-6.66
11710	54.03	PK	275	1.6	H	6.73	60.76	74	-13.24
11710	38.94	AV	324	1.6	H	6.73	45.67	54	-8.33
11710	53.84	PK	234	1.4	V	6.73	60.57	74	-13.43
11710	38.71	AV	167	1.4	V	6.73	45.44	54	-8.56

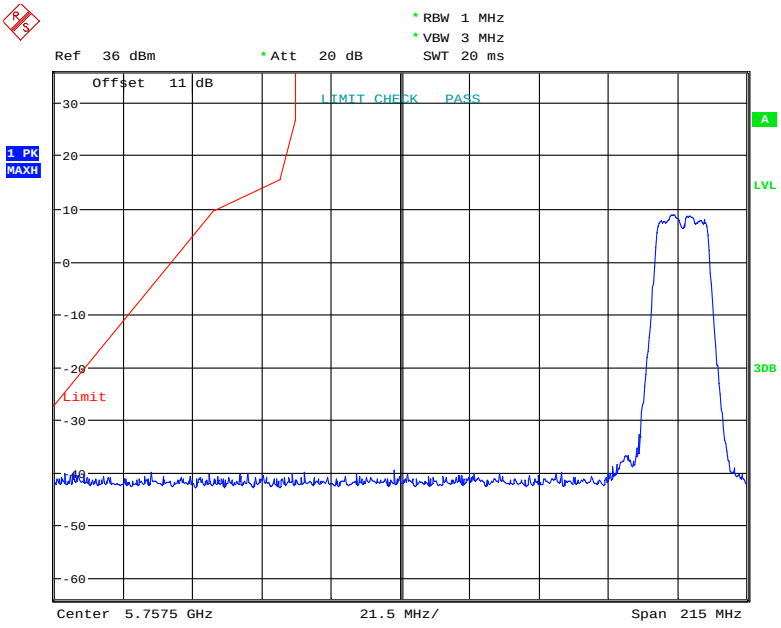
Frequency (MHz)	Receiver		Turntable Angle Degree	Rx Antenna		Factor (dB/m)	Absolute Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	PK/Ave		Height (m)	Polar (H/V)				
802.11ax160_2*996Tone_RU68(Worst Case)									
5815MHz									
5650	61.61	PK	82	2.4	H	-1.95	59.66	68.2	-8.54
5700	61.85	PK	304	1.1	H	-2.02	59.83	105.2	-45.37
5720	62.06	PK	124	2.2	H	-1.97	60.09	110.8	-50.71
5725	62.23	PK	199	2.4	H	-1.96	60.27	122.2	-61.93
5650	61.49	PK	90	1	V	-1.95	59.54	68.2	-8.66
5700	61.70	PK	177	1.8	V	-2.02	59.68	105.2	-45.52
5720	61.94	PK	339	1.9	V	-1.97	59.97	110.8	-50.83
5725	62.02	PK	282	1	V	-1.96	60.06	122.2	-62.14
5895	83.03	PK	247	1.2	H	-1.86	81.17	90.2	-9.03
5925	63.17	PK	293	1.4	H	-1.82	61.35	68.2	-6.85
5895	79.54	PK	327	2.1	V	-1.86	77.68	90.2	-12.52
5925	62.99	PK	161	1.9	V	-1.82	61.17	68.2	-7.03
11630	53.91	PK	81	2.3	H	6.69	60.60	74	-13.40
11630	39.07	AV	355	2.3	H	6.69	45.76	54	-8.24
11630	53.68	PK	166	1.8	V	6.69	60.37	74	-13.63
11630	38.84	AV	162	1.8	V	6.69	45.53	54	-8.47

Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude (Absolute Level) = Factor + Reading
Margin = Corrected. Amplitude (Absolute Level) - Limit
The other spurious emission which is in the noise floor level was not recorded.
For the band edge above 5895 MHz, the test result of peak was less than the limit of average, so just peak values were recorded.

Peak plots of emissions above 5895MHz:
Note: according to FCC §15.35(b), peak emissions limit is 20 dB above the average emission limit, the test result of conducted peak emissions above 5895MHz was less than the limit of average, the limit was expressed as EIRP and consider the two antenna transmit simultaneously, the directional gain of EUT add an additional 3dB is less than 20dB, so the device compliance with the peak emissions limit.

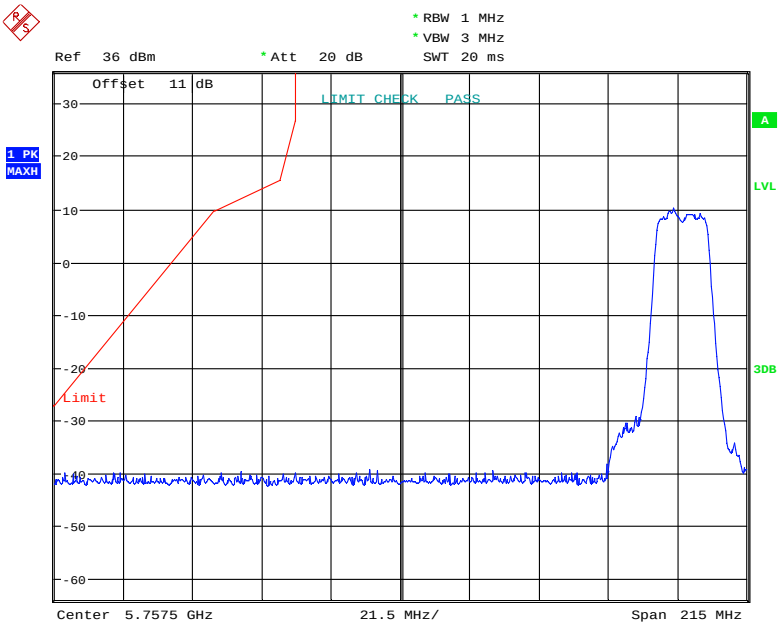
Bandedge Left Side:

Ant 1-802.11a mode



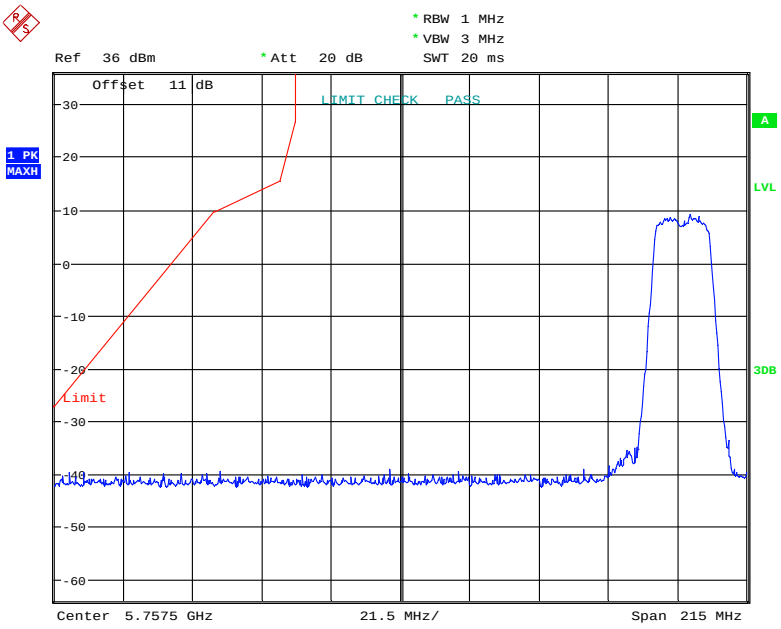
Date: 6.JUN.2023 18:06:40

Ant 2-802.11a mode



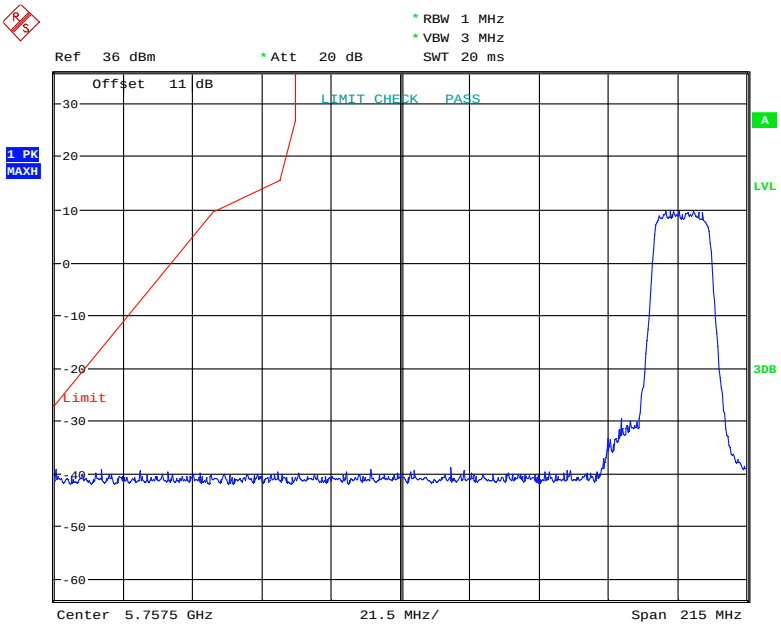
Date: 6.JUN.2023 18:07:17

Ant 1-802.11n20 mode



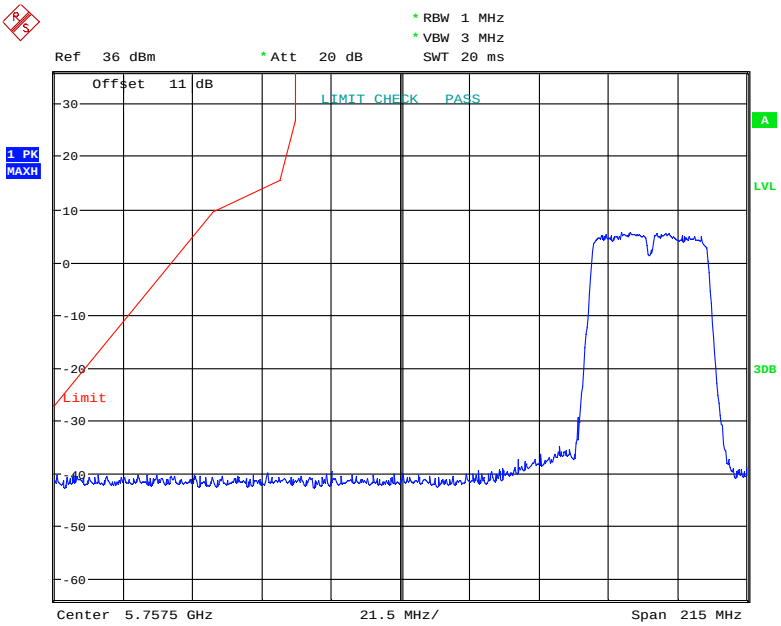
Date: 6.JUN.2023 18:04:14

Ant 2-802.11n20 mode



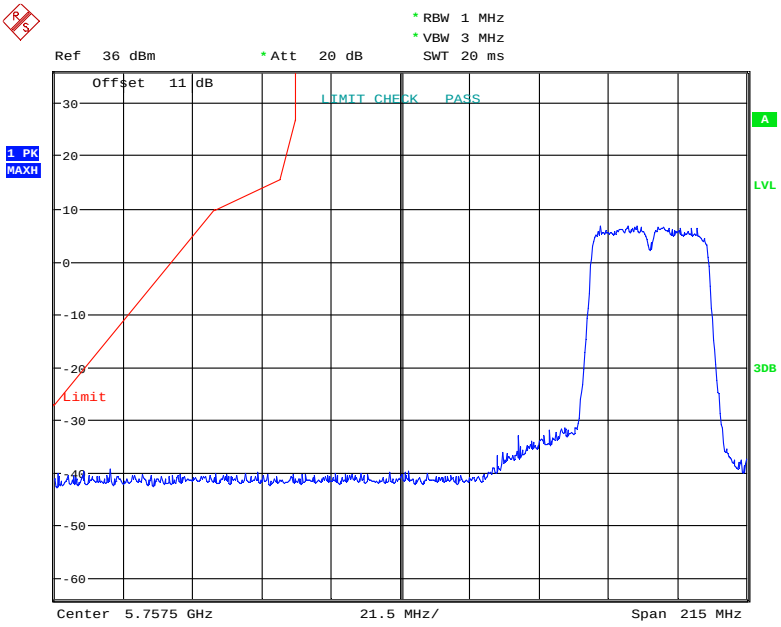
Date: 6.JUN.2023 18:03:47

Ant 1-802.11n40 mode



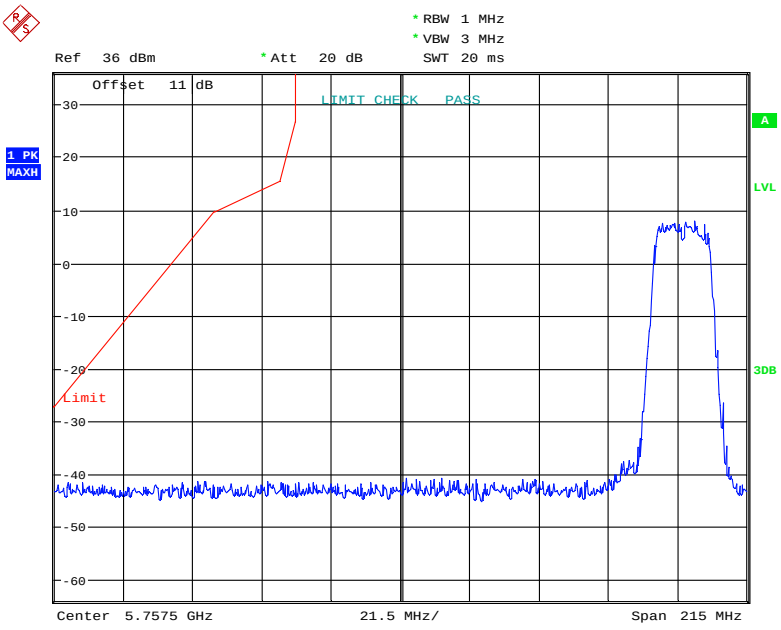
Date: 6.JUN.2023 17:46:48

Ant 2-802.11n40 mode



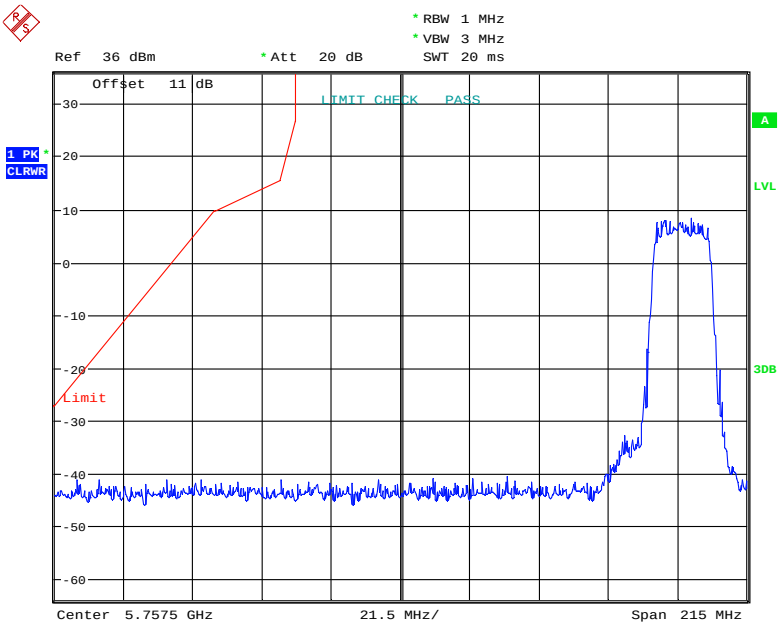
Date: 6.JUN.2023 17:49:15

Ant 1-802.11ac20 mode



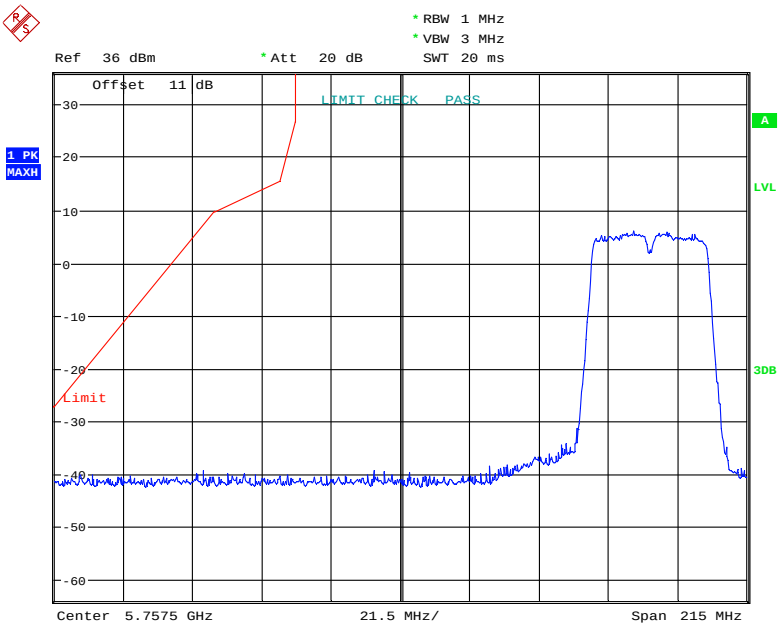
Date: 6.JUN.2023 18:02:12

Ant 2-802.11ac20 mode



Date: 6.JUN.2023 18:02:44

Ant 1-802.11ac40 mode



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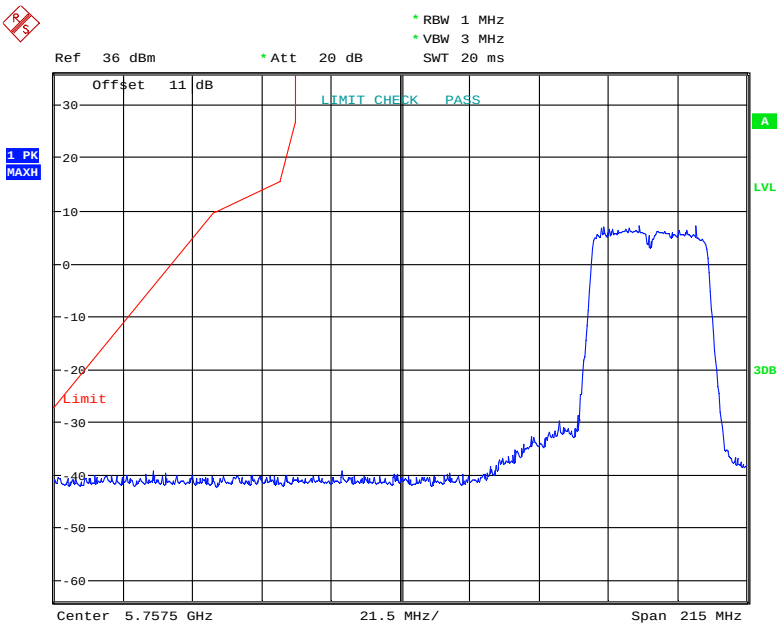

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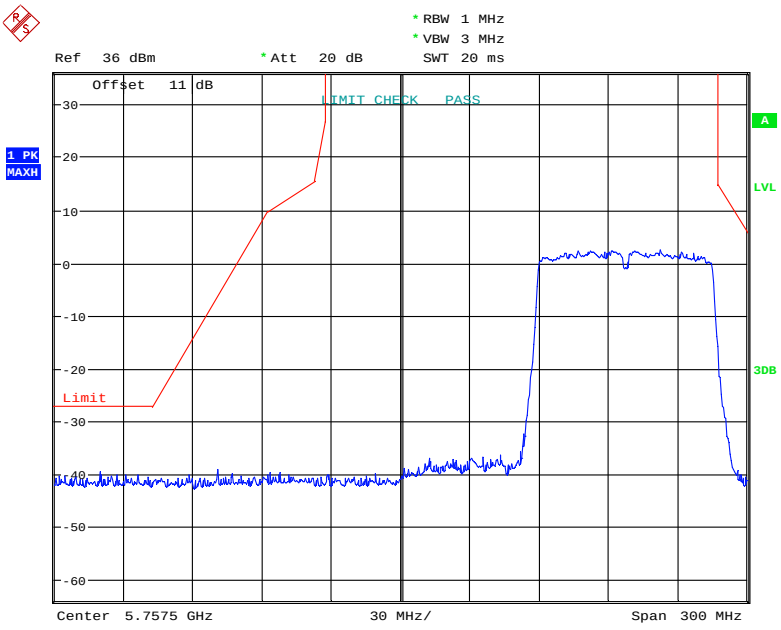
Ant 1-802.11ac80 mode



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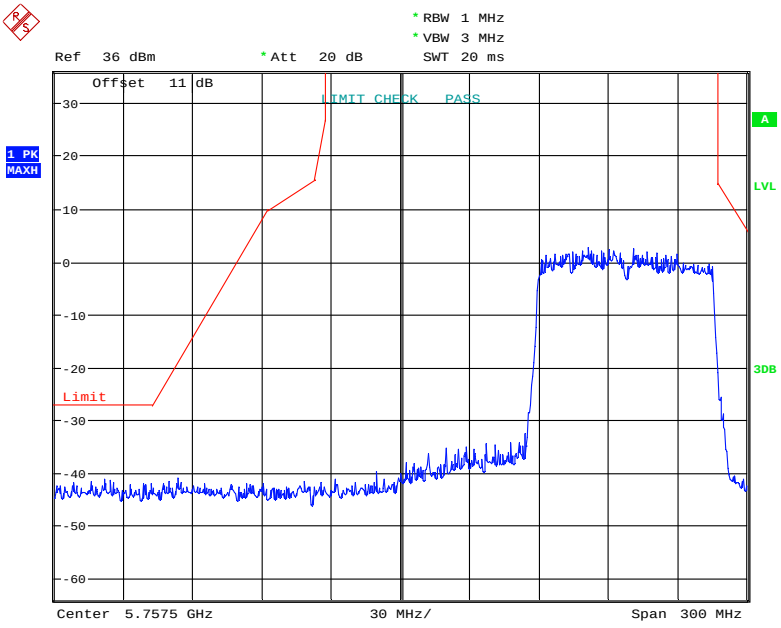

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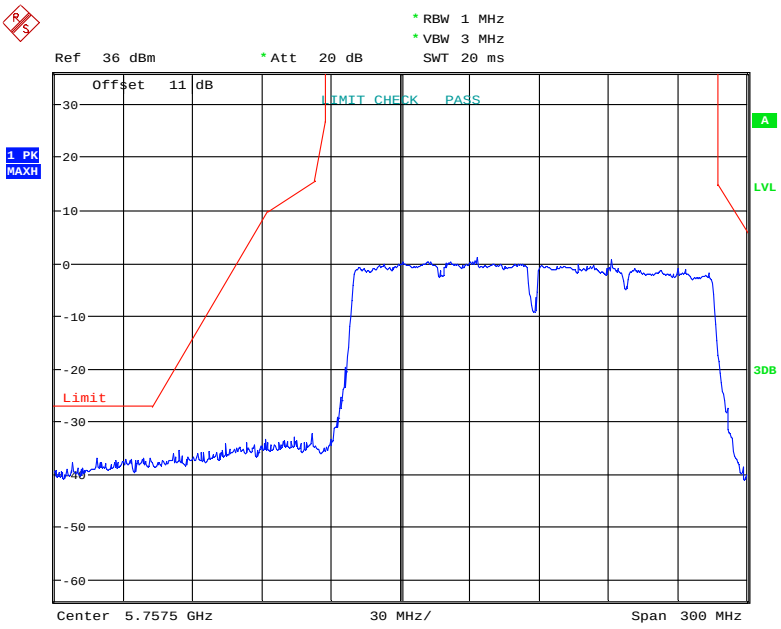
Ant 1-802.11ac160 mode



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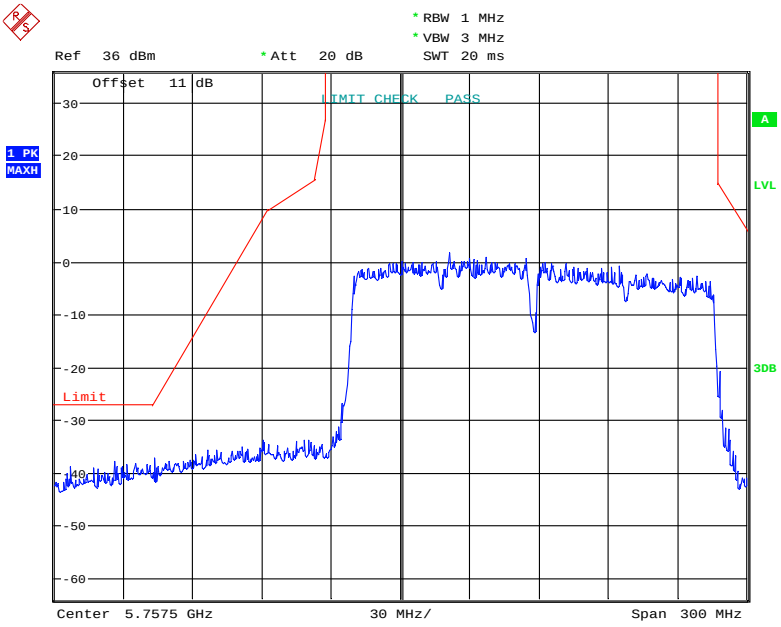
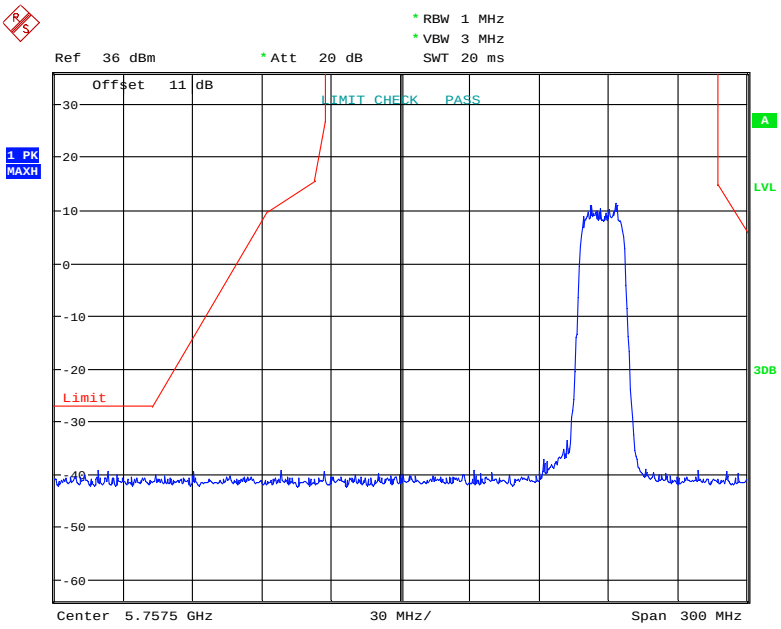
Ant 2-802.11ac160 mode



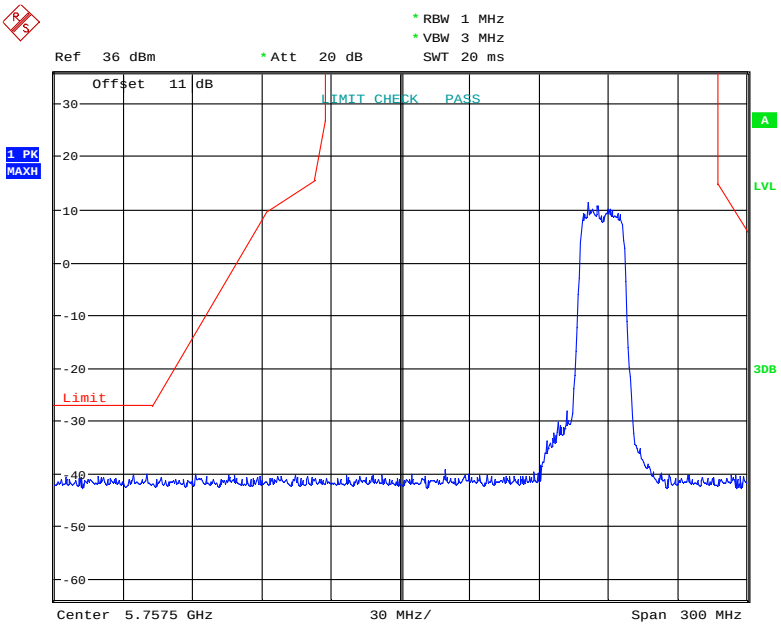
Date: 6.JUN.2023 18:08:48

Ant 1-802.11ax20mode_242Tone_RU61



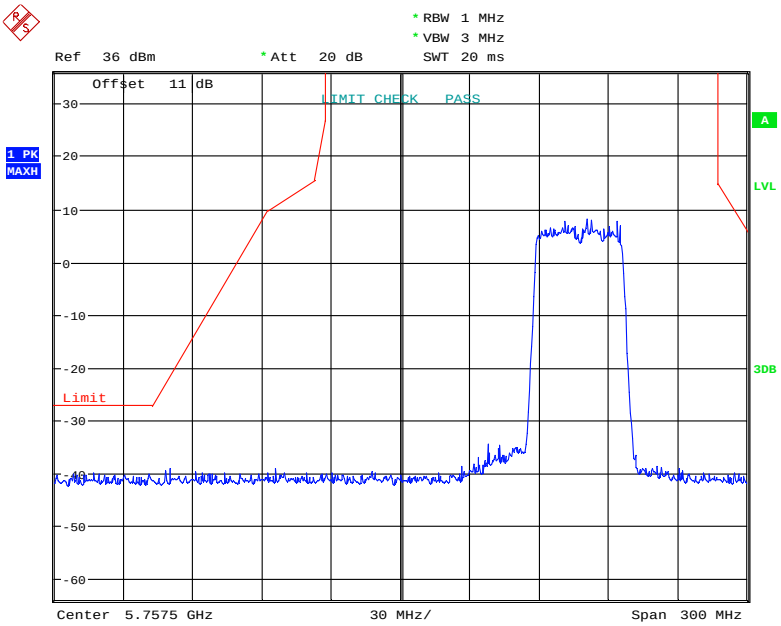
Date: 6.JUN.2023 18:10:07

Ant 2-802.11ax20mode_242Tone_RU61



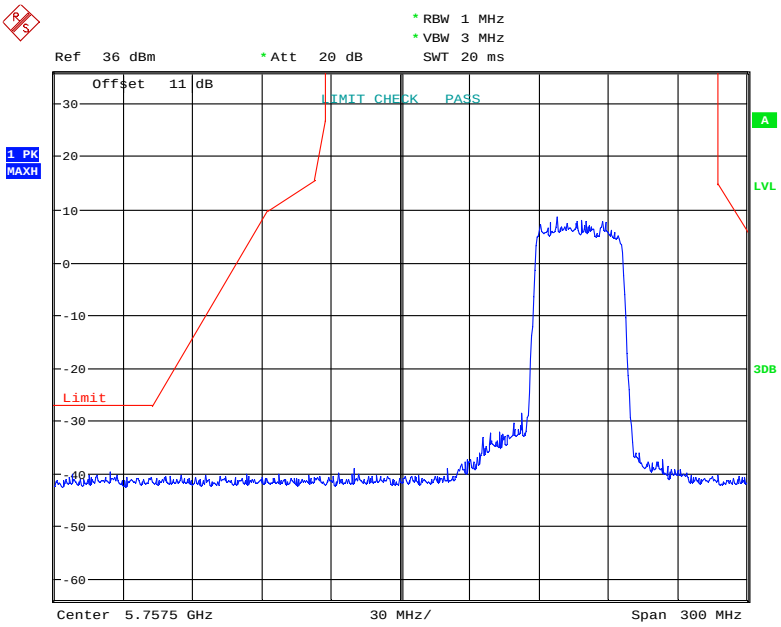
Date: 6.JUN.2023 18:11:07

Ant 1-802.11 ax40mode_484Tone_RU65



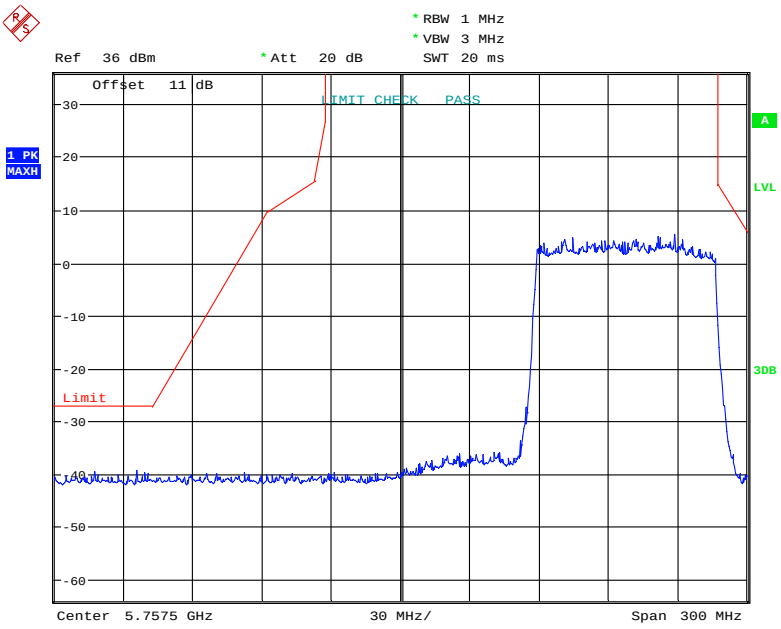
Date: 6.JUN.2023 18:12:01

Ant 2-802.11 ax40mode_484Tone_RU65



Date: 6.JUN.2023 18:11:36

Ant 1-802.11 ax80mode_996Tone_RU67



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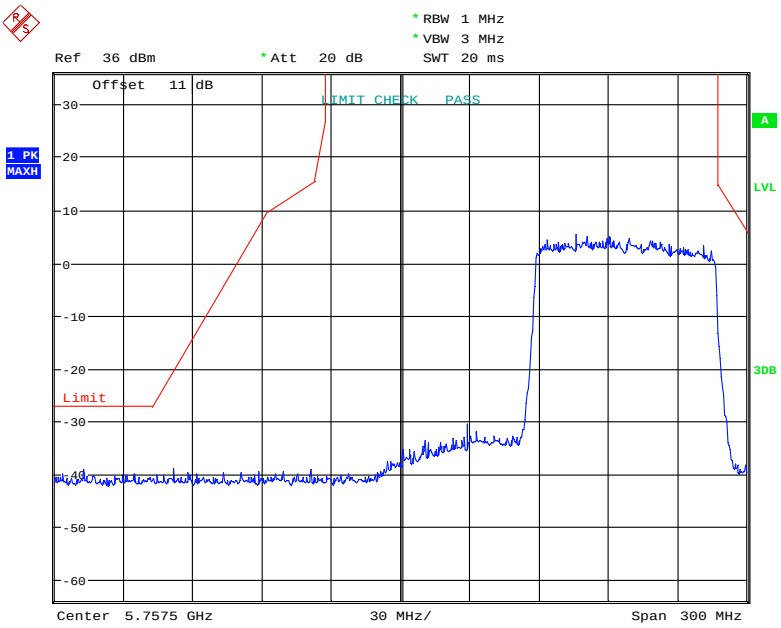
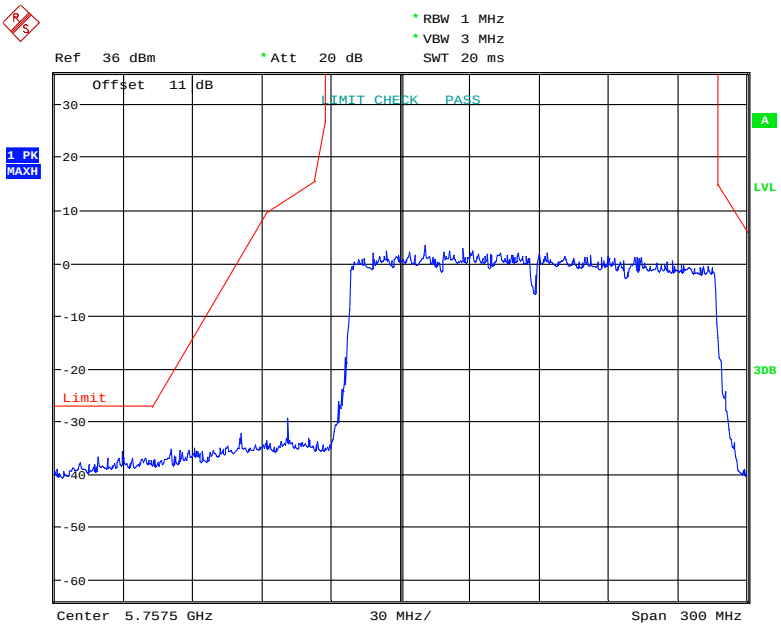
Ant 2-802.11 ax80mode_996Tone_RU67



Date: 6.JUN.2023 18:13:03

Ant 1-802.11 ax160 mode_996Tone_RU68



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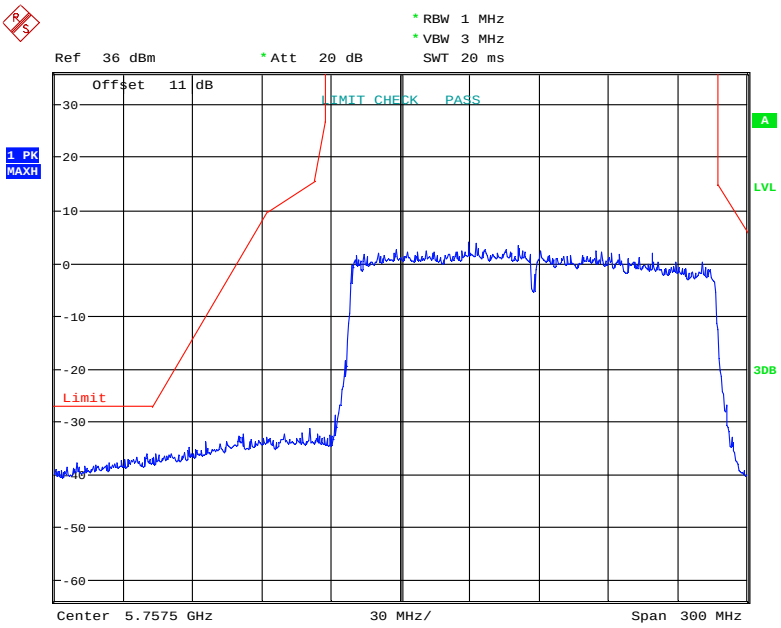
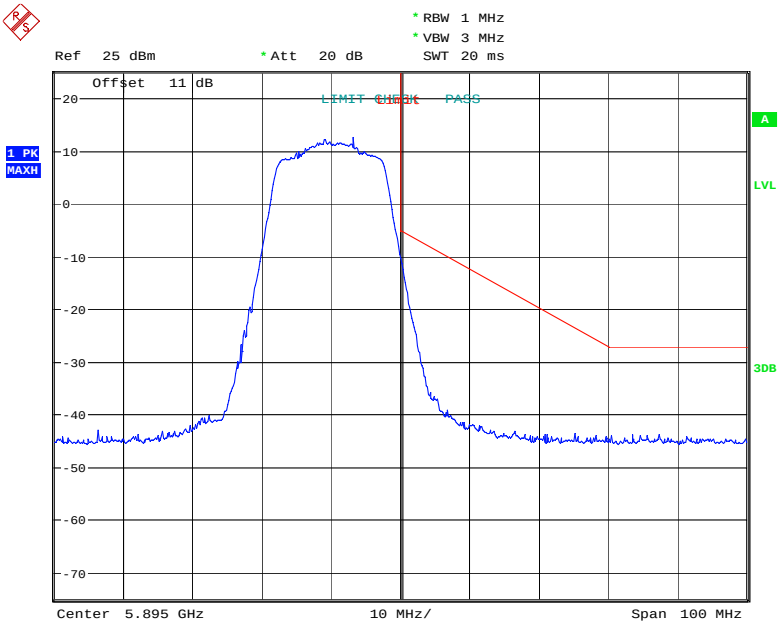
Ant 2-802.11 ax160 mode_996Tone_RU68



Date: 6.JUN.2023 18:13:55

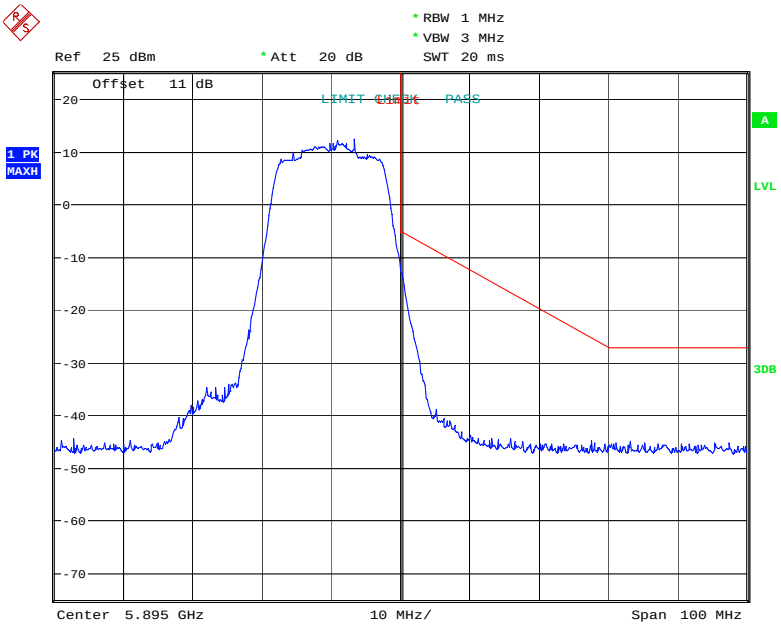
Bandedge Right Side:

Ant 1-802.11a mode



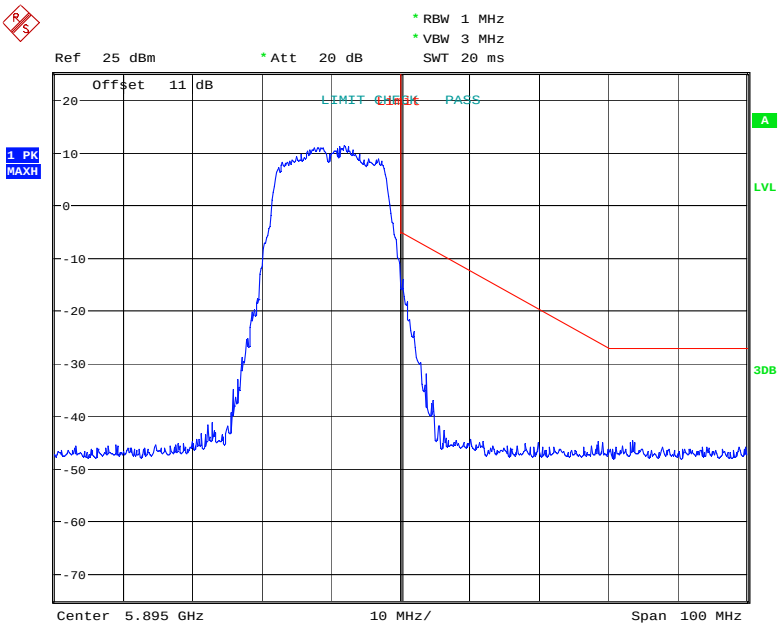
Date: 25.FEB.2023 22:07:35

Ant 2-802.11a mode



Date: 25.FEB.2023 22:08:20

Ant 1-802.11n20 mode



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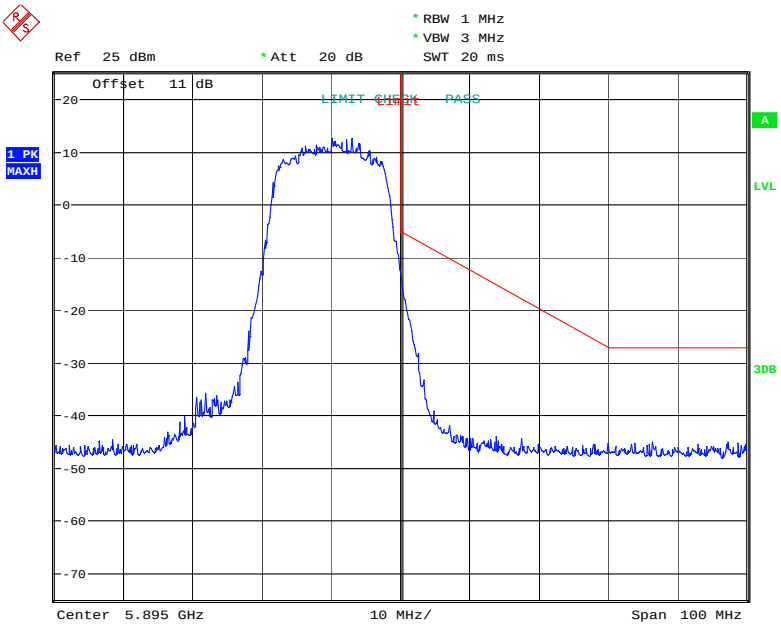
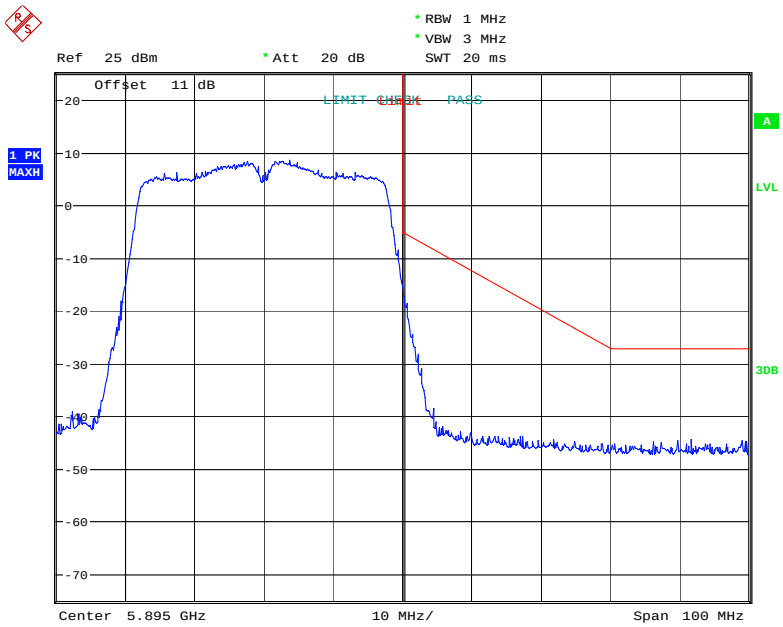
Ant 2-802.11n20 mode



Date: 25.FEB.2023 22:09:05

Ant 1-802.11n40 mode



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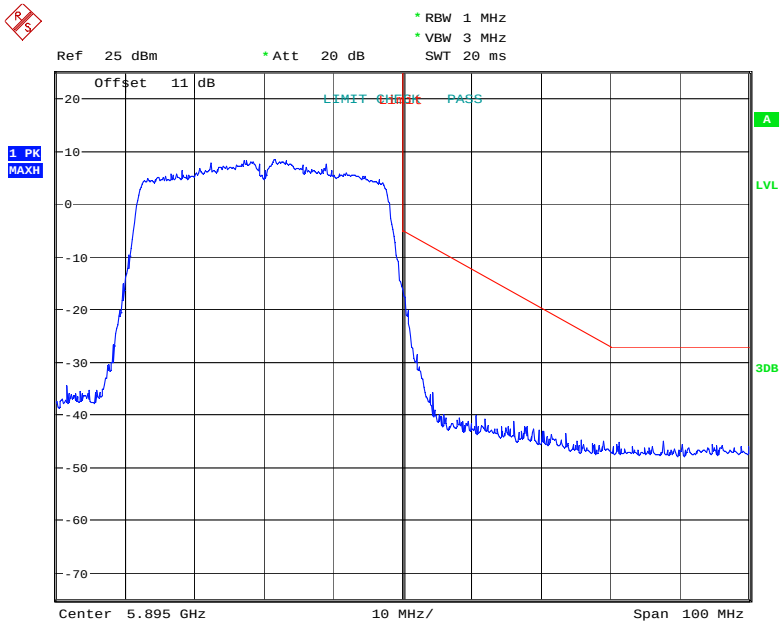
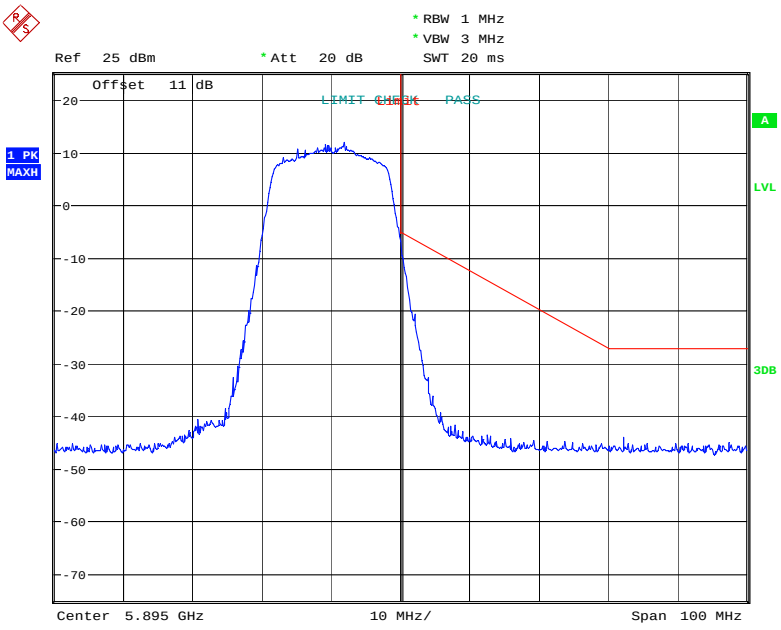
Ant 2-802.11n40 mode



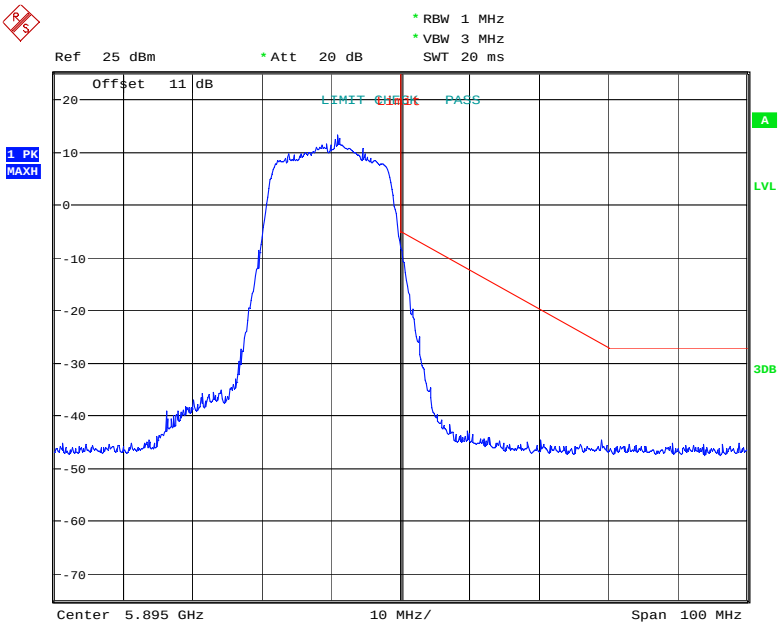
Date: 25.FEB.2023 22:20:45

Ant 1-802.11ac20 mode



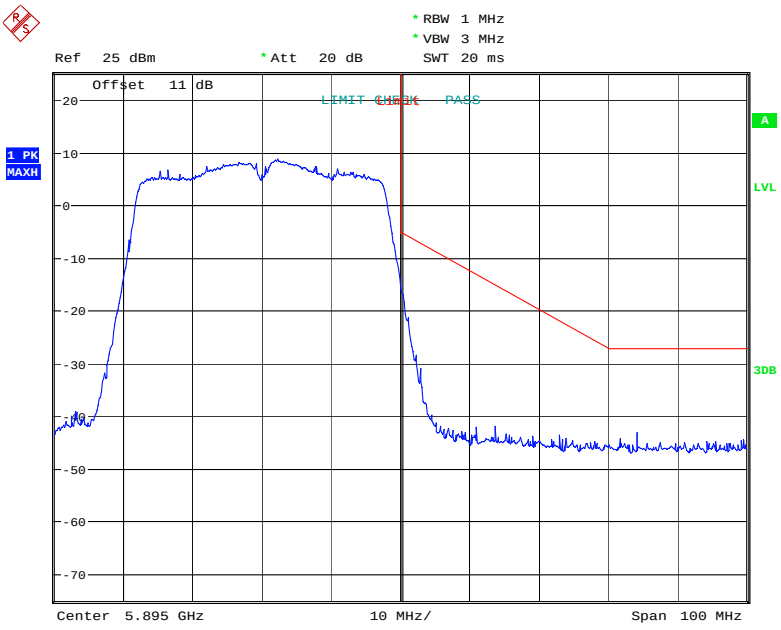
Date: 25.FEB.2023 22:10:49

Ant 2-802.11ac20 mode



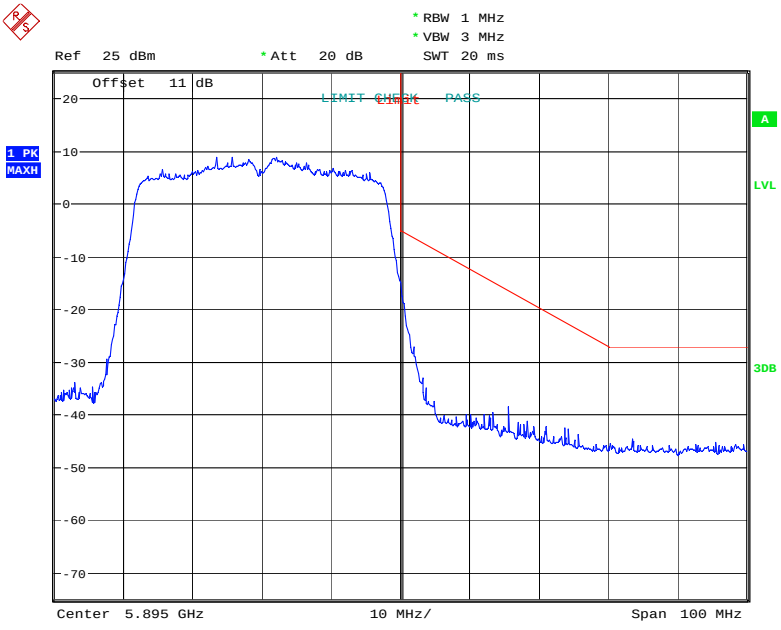
Date: 25.FEB.2023 22:11:22

Ant 1-802.11ac40 mode



Date: 25.FEB.2023 22:19:11

Ant 2-802.11ac40 mode

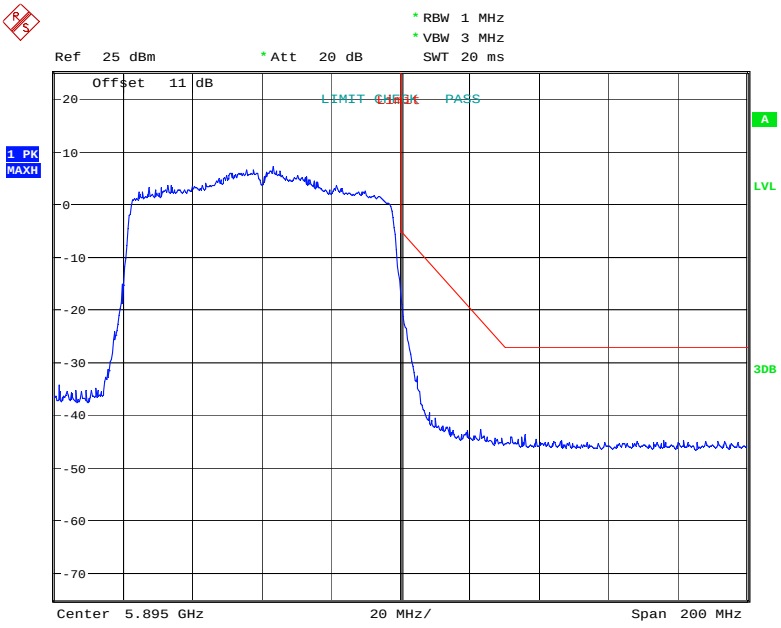


Date: 25.FEB.2023 22:19:48

Ant 1-802.11ac80 mode

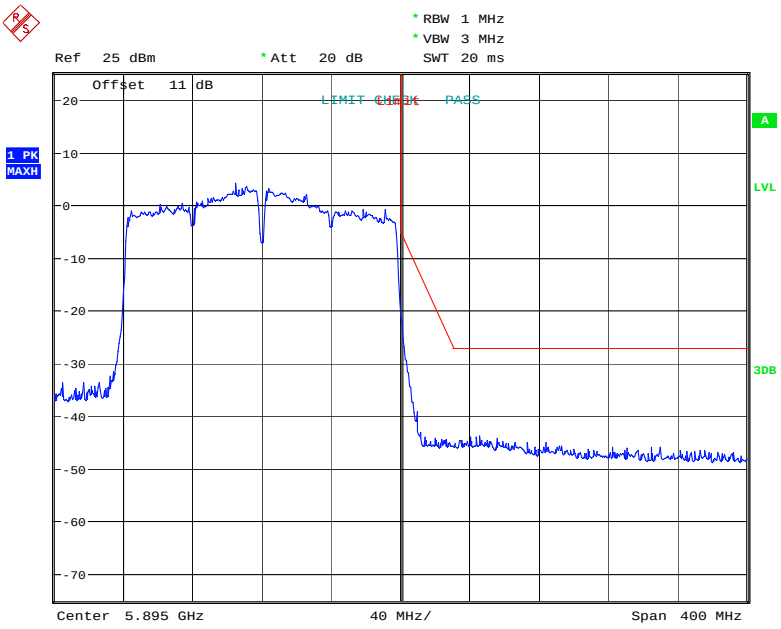
Date: 25.FEB.2023 22:27:42

Ant 2-802.11ac80 mode



Date: 25.FEB.2023 22:25:09

Ant 1-802.11ac160 mode



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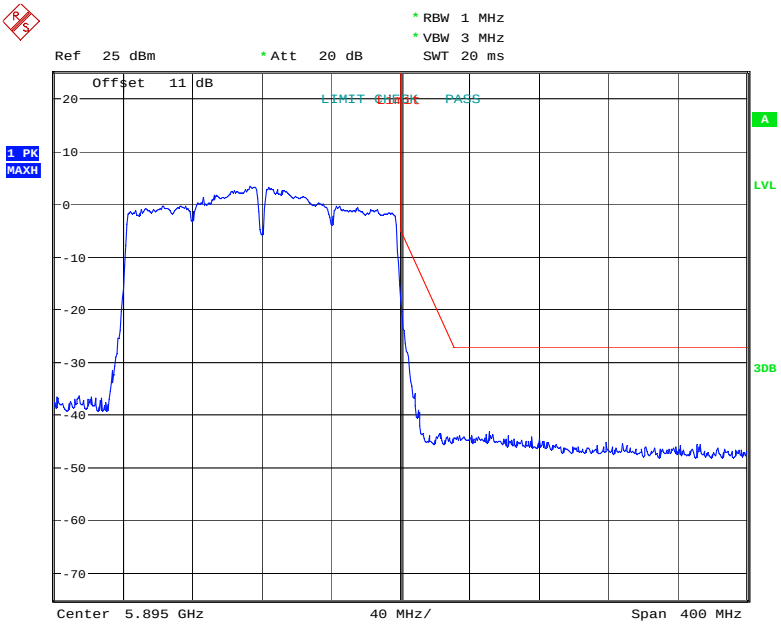
Ant 2-802.11ac160 mode



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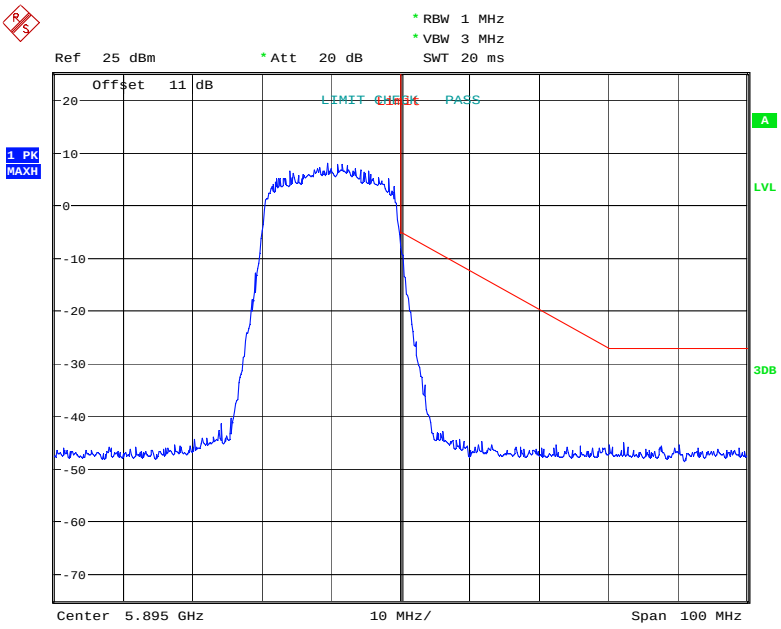
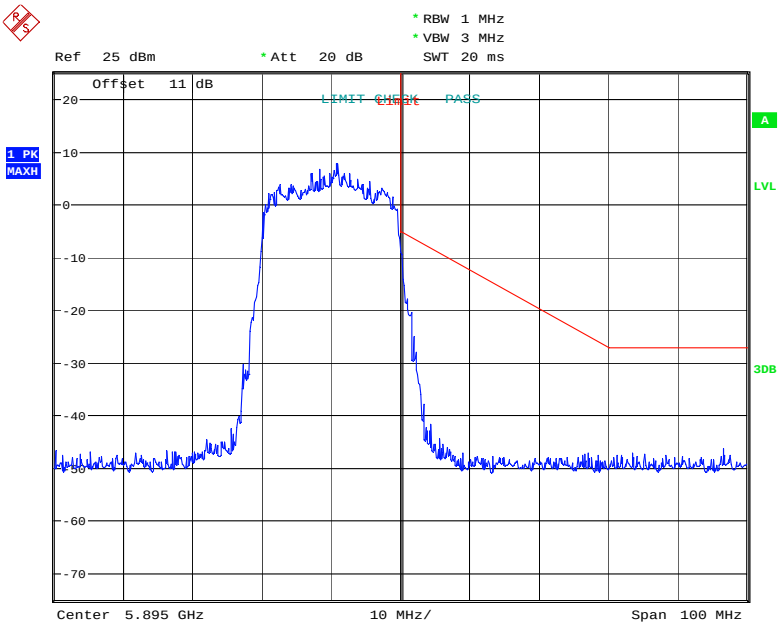
Ant 1-802.11ax20mode_242Tone_RU61



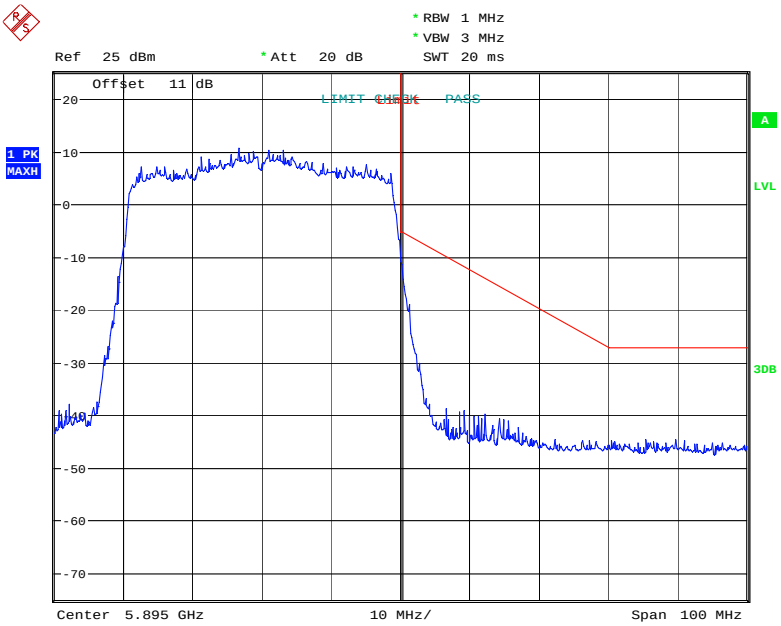
Date: 25.FEB.2023 22:14:00

Ant 2-802.11ax20mode_242Tone_RU61



Date: 25.FEB.2023 22:36:29

Ant 1-802.11 ax40mode_484Tone_RU65



Date: 25.FEB.2023 22:17:48

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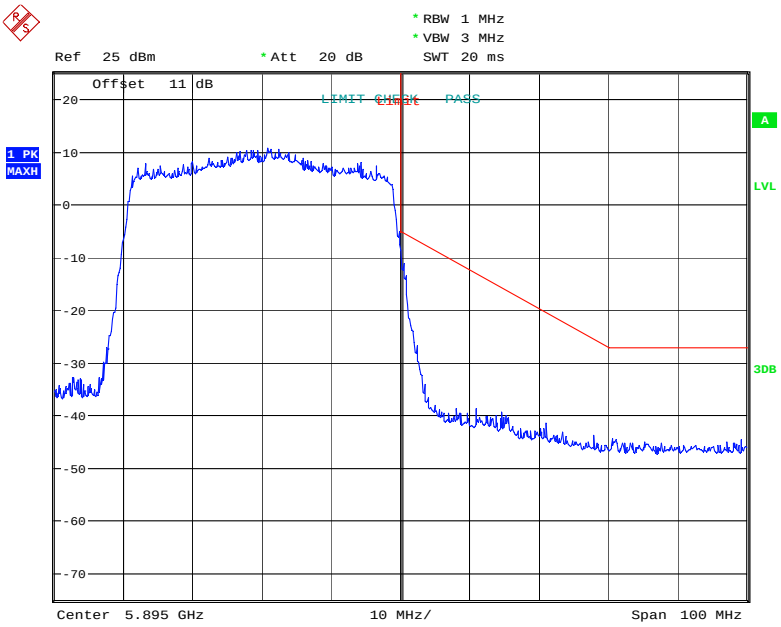
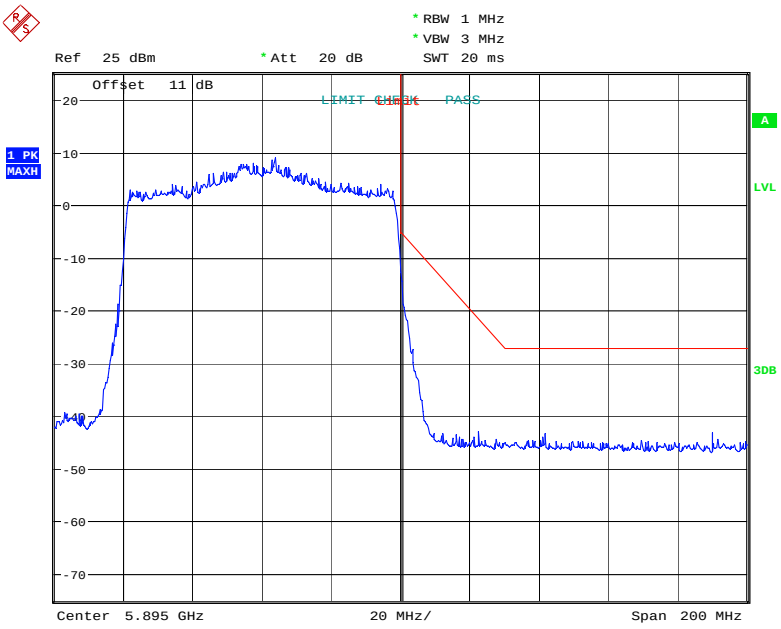


Date: 25.FEB.2023 22:16:44

Ant 1-802.11 ax80mode_996Tone_RU67



Date: 25.FEB.2023 22:30:30

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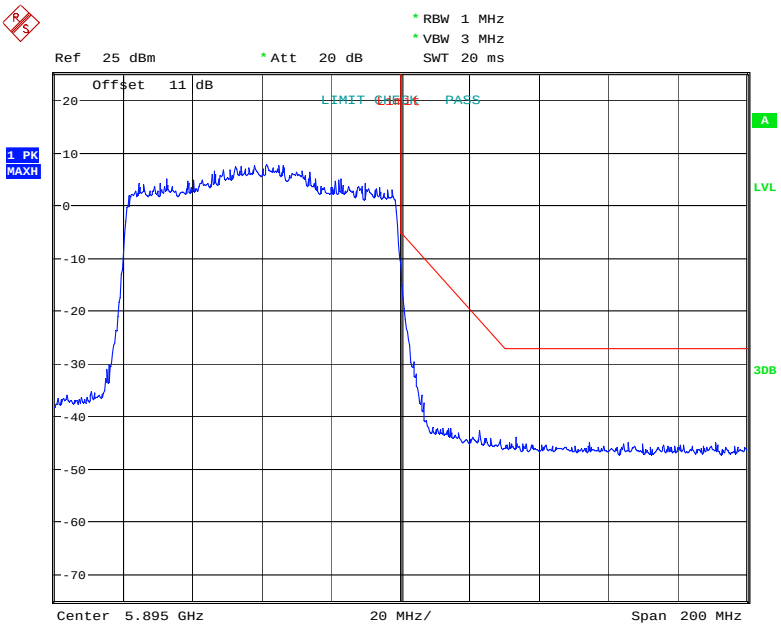
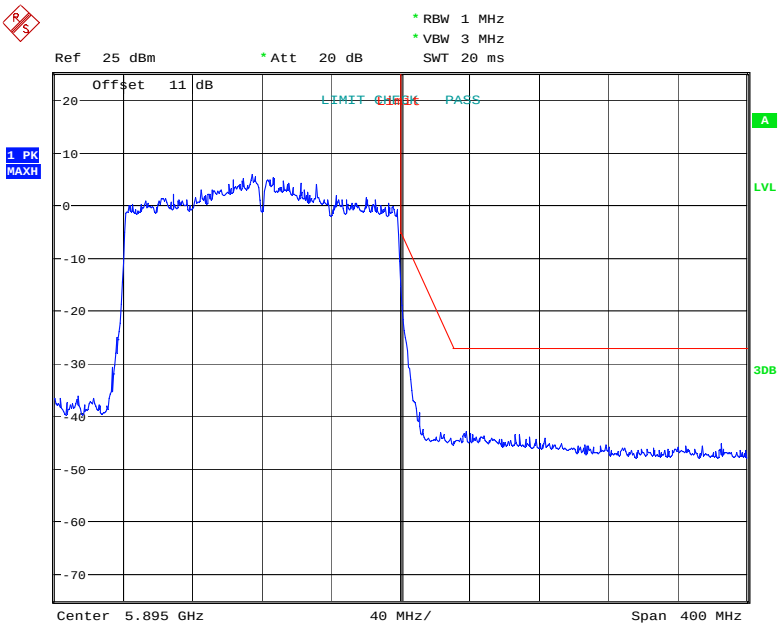


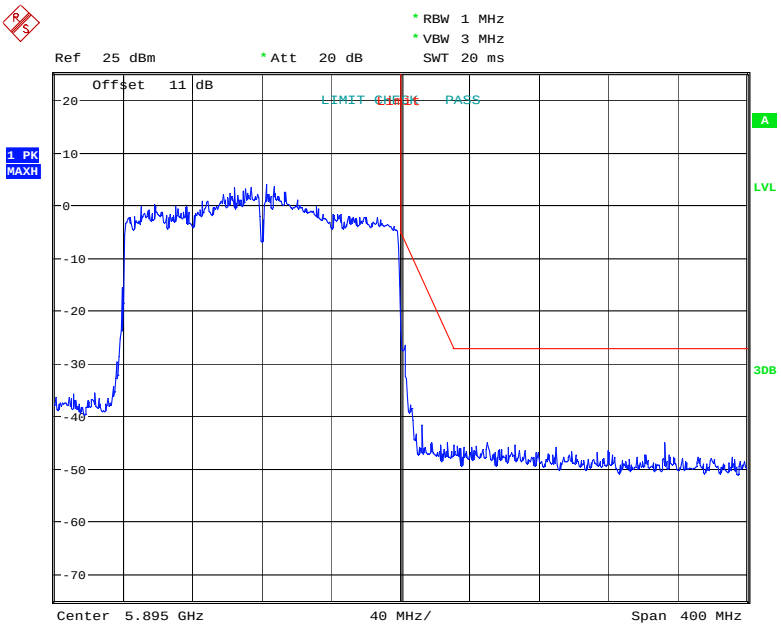
Date: 25.FEB.2023 22:30:59

Ant 1-802.11 ax160 mode_996Tone_RU68



Date: 25.FEB.2023 22:32:40

Ant 2-802.11 ax160 mode_996Tone_RU68

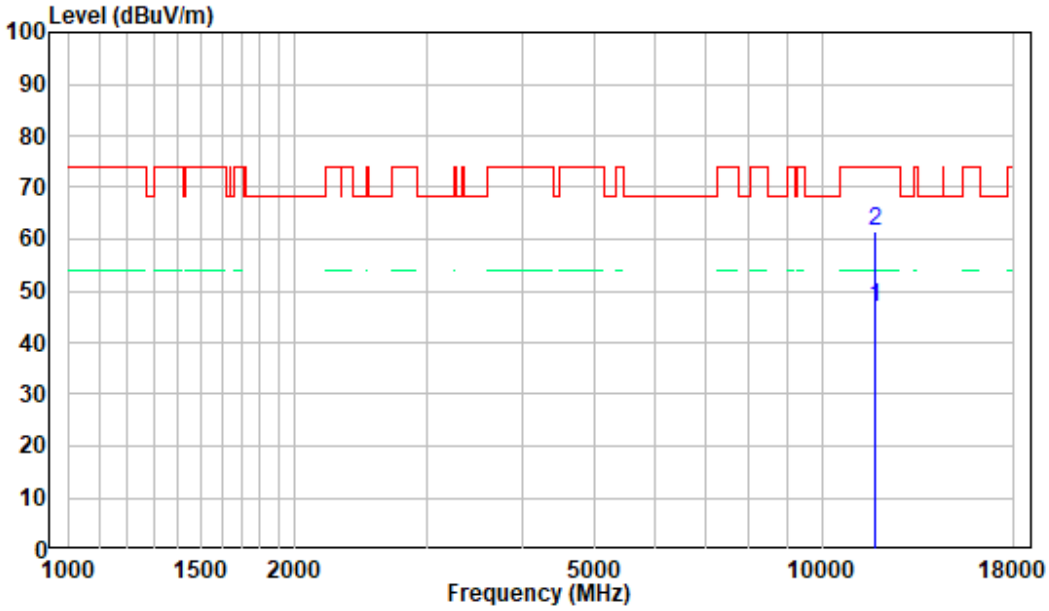


Date: 25.FEB.2023 22:32:07

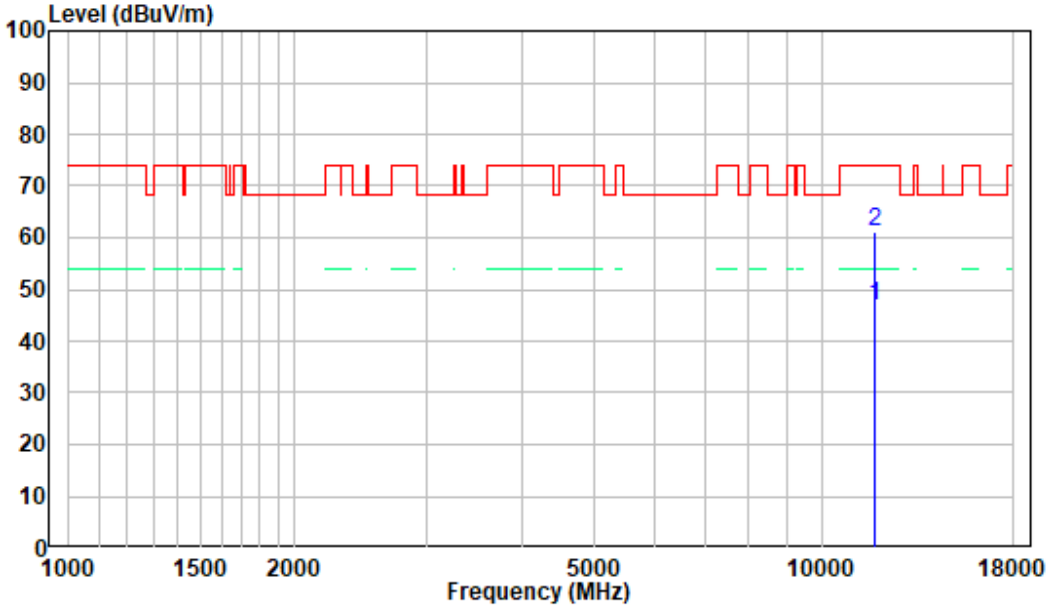
1 GHz - 18 GHz: (Pre-Scan plots)

802.11ax20, 5885MHz

Horizontal



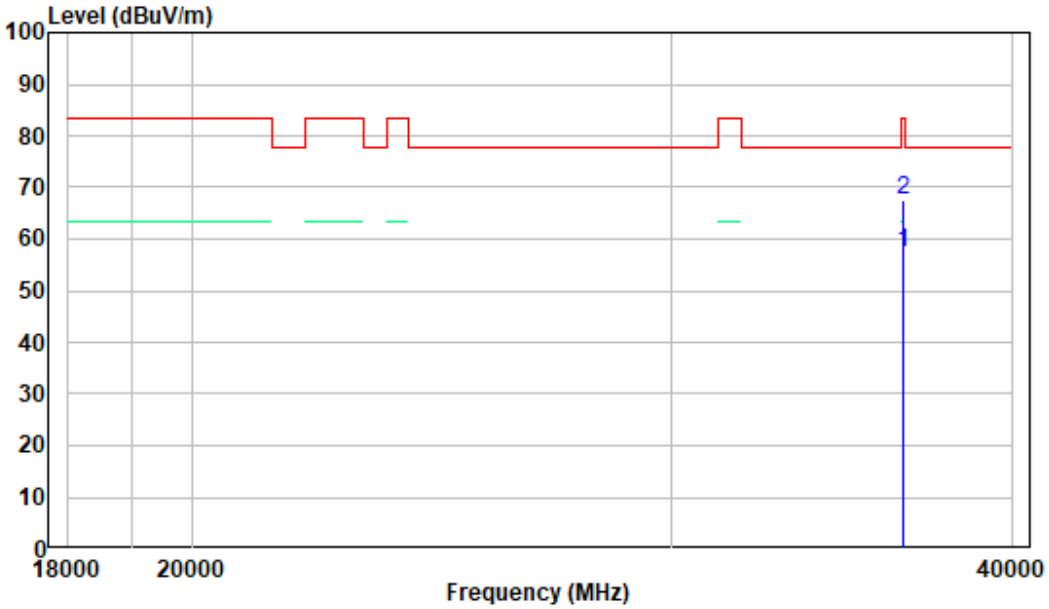
Vertical



18-40GHz: (Pre-Scan plots)

802.11ax20, 5885MHz

Horizontal



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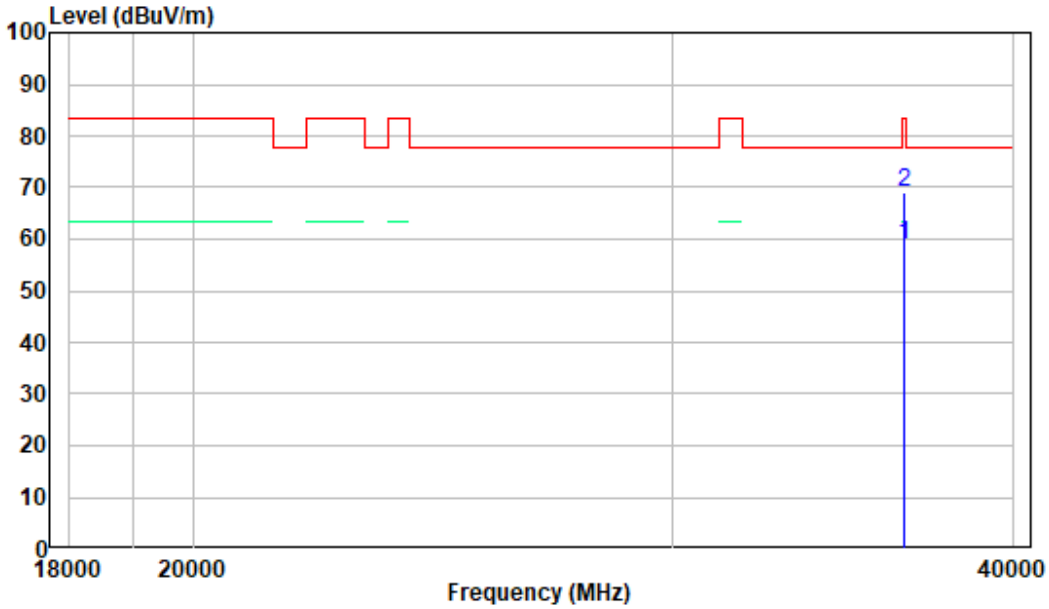


FCC §15.407(a),(e) – 26 dB & 6dB EMISSION BANDWIDTH

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.

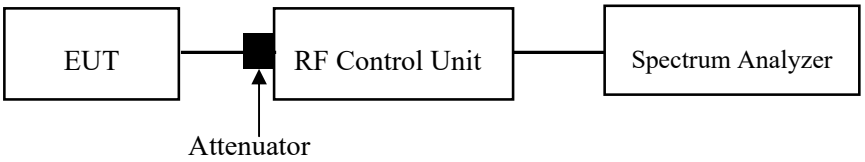
Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure

Test Method: KDB789033 D02 Clause II.C

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 and 5.850-5.895 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 and 5.850-5.895 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.



Test Data

Environmental Conditions

Temperature:	24-26.5℃
Relative Humidity:	50-56%
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling from 2022-10-18 to 2023-03-13.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

FCC §15.407(a) – CONDUCTED TRANSMITTER OUTPUT POWER

Applicable Standard

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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 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.

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

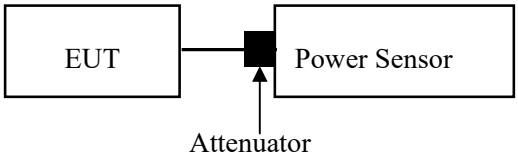
Test Procedure

Test Method: KDB789033 D02 Clause II.E.3

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.

c) Add a correction factor to the display.



Test Data

Environmental Conditions

Temperature:	24-26.5℃
Relative Humidity:	50-56%
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling from 2022-10-18 to 2023-03-14.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

FCC §15.407(a) - POWER SPECTRAL DENSITY

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. 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 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.

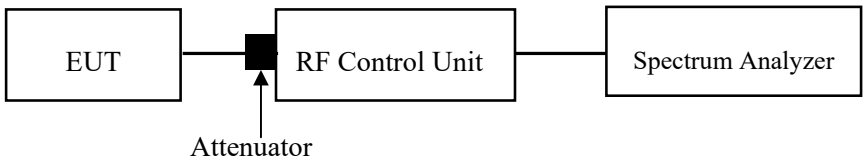
For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band, the maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm. Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

Test Procedure

Test Method: KDB789033 D02 Clause II.F

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, 5.47-5.725 GHz, and 5.850-5.895 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not hAve.e 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

a) Set RBW ⩾ 1/T, where T is defined in section II.B.l.a).
b) Set VBW ⩾ 3 RBW.
c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.



Test Data

Environmental Conditions

Temperature:	24-26.5℃
Relative Humidity:	50-56%
ATM Pressure:	101.0 kPa

The testing was performed by Roger Ling from 2022-10-18 to 2023-03-10.

EUT operation mode: Transmitting

Test Result: Pass

Please refer to the Appendix.

APPENDIX

Appendix A1: Emission Bandwidth

Test Result

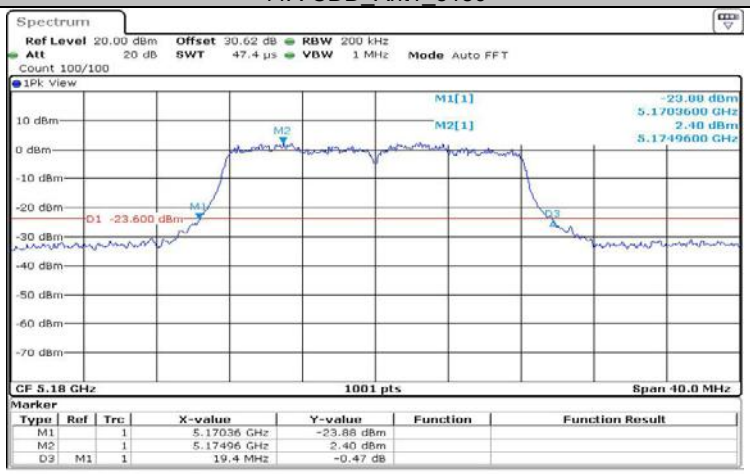
Worst Case as below:

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	19.40	5170.36	5189.76	---	---
	Ant1	5200	19.36	5190.32	5209.68	---	---
	Ant1	5240	19.28	5230.28	5249.56	---	---
	Ant1	5260	19.08	5250.40	5269.48	---	---
	Ant1	5280	19.00	5270.28	5289.28	---	---
	Ant1	5320	19.24	5310.24	5329.48	---	---
	Ant1	5500	19.20	5490.36	5509.56	---	---
	Ant1	5580	19.52	5570.28	5589.80	---	---
	Ant1	5700	19.44	5690.20	5709.64	---	---
11N20MIMO	Ant1	5180	19.20	5170.28	5189.48	---	---
	Ant1	5200	19.48	5190.20	5209.68	---	---
	Ant1	5240	19.40	5230.36	5249.76	---	---
	Ant1	5260	19.16	5250.36	5269.52	---	---
	Ant1	5280	18.88	5270.44	5289.32	---	---
	Ant1	5320	19.32	5310.24	5329.56	---	---
	Ant1	5500	19.36	5490.36	5509.72	---	---
	Ant1	5580	19.52	5570.20	5589.72	---	---
	Ant1	5700	19.24	5690.28	5709.52	---	---
11N40MIMO	Ant1	5190	41.04	5169.36	5210.40	---	---
	Ant1	5230	41.04	5209.84	5250.88	---	---
	Ant1	5270	40.56	5249.84	5290.40	---	---
	Ant1	5310	40.64	5289.68	5330.32	---	---
	Ant1	5510	40.24	5489.76	5530.00	---	---
	Ant1	5550	50.40	5521.60	5572.00	---	---
	Ant1	5670	40.88	5649.60	5690.48	---	---
11AC20MIMO	Ant1	5180	20.52	5169.72	5190.24	---	---
	Ant1	5200	20.48	5189.84	5210.32	---	---
	Ant1	5240	20.32	5229.76	5250.08	---	---
	Ant1	5260	20.36	5250.04	5270.40	---	---
	Ant1	5280	20.16	5270.00	5290.16	---	---
	Ant1	5320	20.56	5309.64	5330.20	---	---
	Ant1	5500	20.32	5490.00	5510.32	---	---
	Ant1	5580	20.40	5569.84	5590.24	---	---
	Ant1	5700	20.40	5689.76	5710.16	---	---
11AC40MIMO	Ant1	5190	41.20	5169.60	5210.80	---	---
	Ant1	5230	40.64	5209.68	5250.32	---	---
	Ant1	5270	40.32	5249.92	5290.24	---	---
	Ant1	5310	40.72	5289.68	5330.40	---	---
	Ant2	5310	40.48	5289.84	5330.32	---	---
	Ant1	5510	40.48	5489.76	5530.24	---	---
	Ant1	5550	40.88	5529.68	5570.56	---	---
	Ant1	5670	40.48	5649.76	5690.24	---	---
11AC80MIMO	Ant1	5210	82.88	5168.56	5251.44	---	---
	Ant1	5290	84.16	5247.92	5332.08	---	---
	Ant1	5530	84.00	5488.08	5572.08	---	---
	Ant1	5610	83.52	5568.40	5651.92	---	---
11AC160MIMO	Ant1	5250	166.40	5166.80	5333.20	---	---

	Ant1	5570	168.00	5485.52	5653.52	---	---
11AX20MIMO_242Tone_RU61	Ant1	5180	21.04	5169.36	5190.40	---	---
	Ant1	5200	20.96	5189.56	5210.52	---	---
	Ant1	5240	21.12	5229.48	5250.60	---	---
	Ant1	5260	21.04	5249.56	5270.60	---	---
	Ant1	5280	21.00	5269.52	5290.52	---	---
	Ant1	5320	21.20	5309.40	5330.60	---	---
	Ant1	5500	21.00	5489.48	5510.48	---	---
	Ant1	5580	21.32	5569.48	5590.80	---	---
	Ant1	5700	21.32	5689.36	5710.68	---	---
11AX40MIMO_484Tone_RU65	Ant1	5190	41.36	5169.28	5210.64	---	---
	Ant1	5230	41.28	5209.28	5250.56	---	---
	Ant1	5270	41.12	5249.44	5290.56	---	---
	Ant1	5310	41.28	5289.36	5330.64	---	---
	Ant1	5510	41.60	5489.36	5530.96	---	---
	Ant1	5550	40.96	5529.36	5570.32	---	---
	Ant1	5670	41.04	5649.52	5690.56	---	---
11AX80MIMO_996Tone_RU67	Ant1	5210	83.52	5168.56	5252.08	---	---
	Ant1	5290	83.52	5248.24	5331.76	---	---
	Ant1	5530	83.52	5488.24	5571.76	---	---
	Ant1	5610	83.36	5568.24	5651.60	---	---
11AX160MIMO_2×996Tone_RU68	Ant1	5250	166.72	5166.48	5333.20	---	---
	Ant1	5570	166.72	5486.16	5652.88	---	---

Test Graphs

11A-CDD_Ant1_5180



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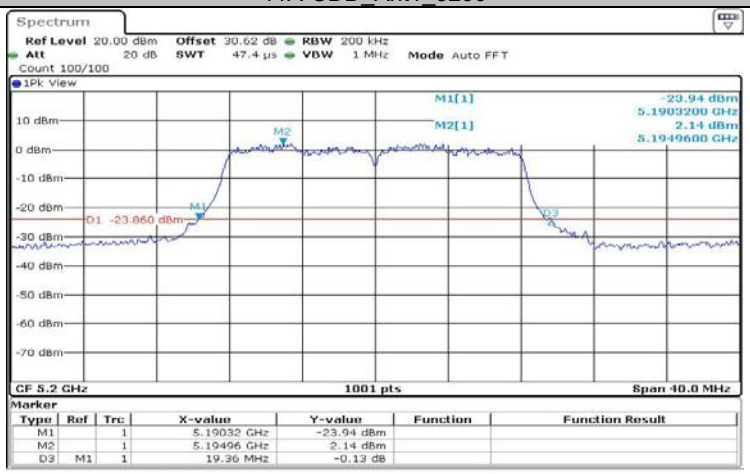

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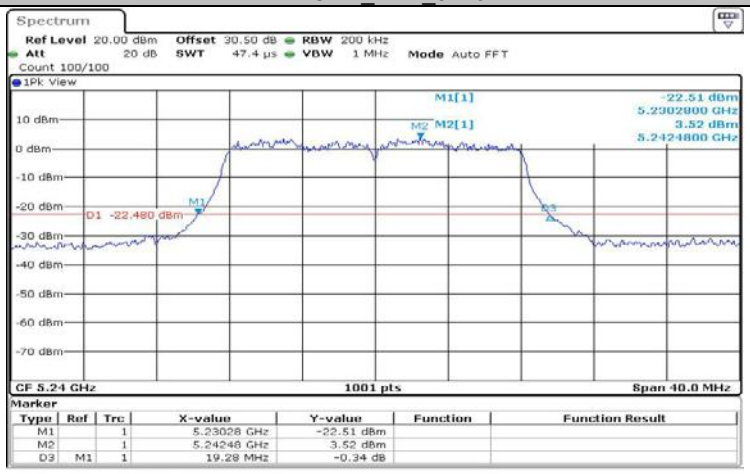

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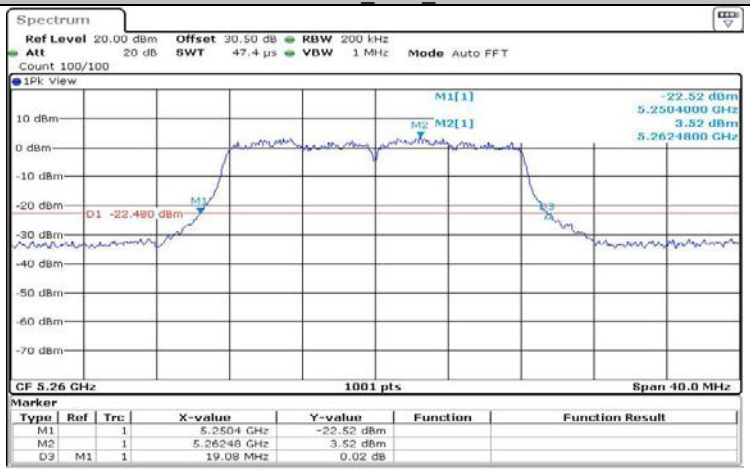

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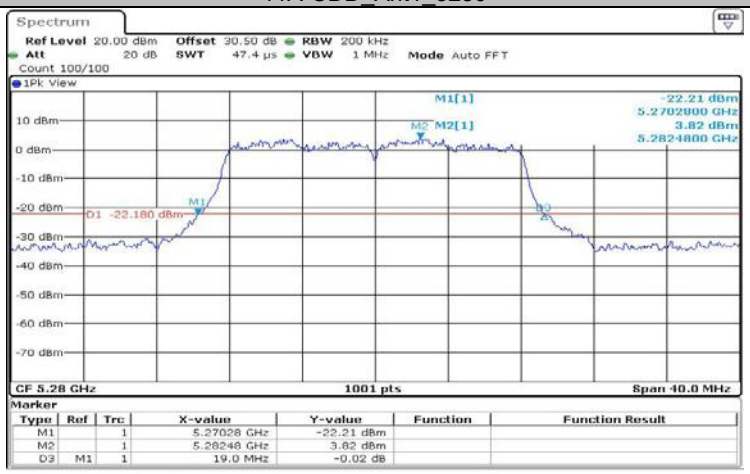

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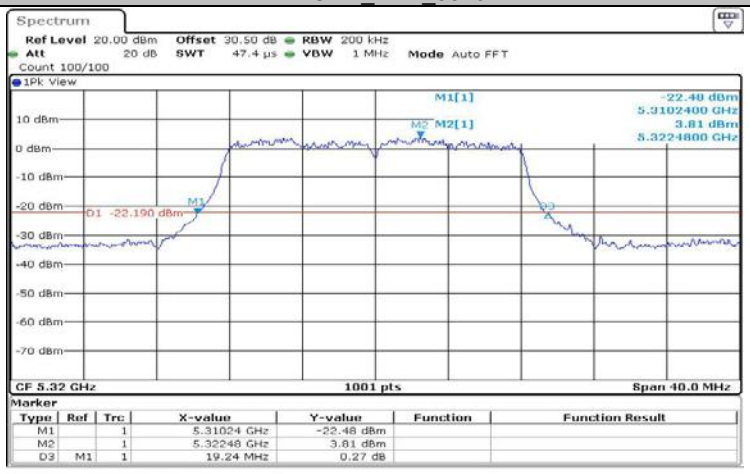

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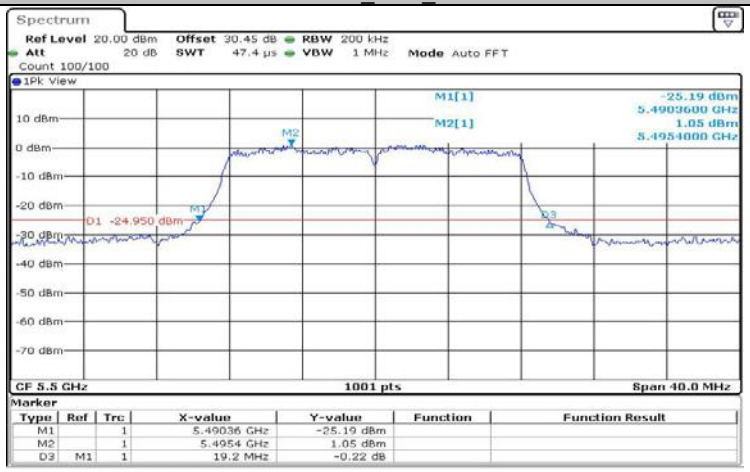

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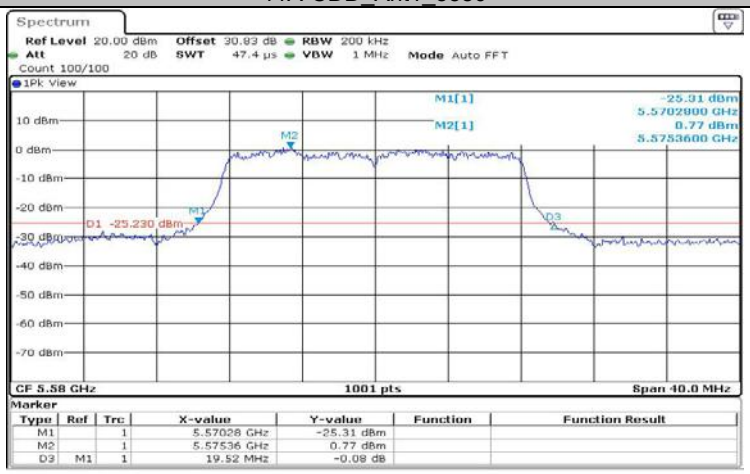

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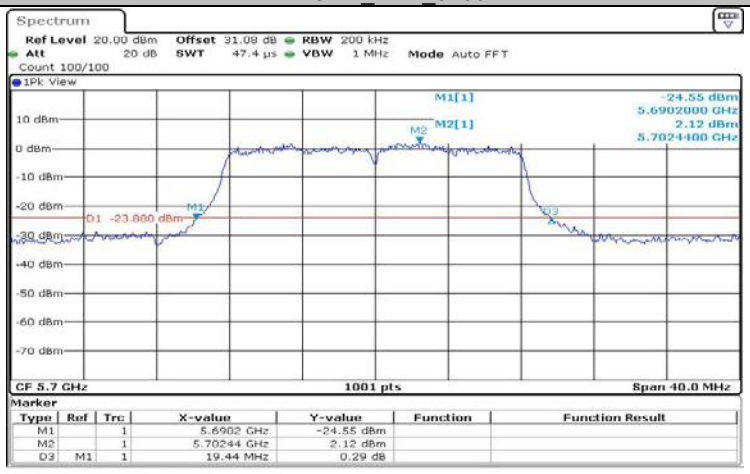

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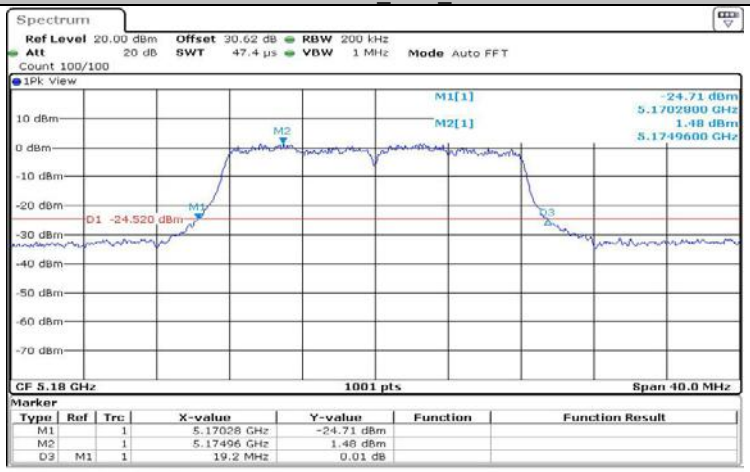

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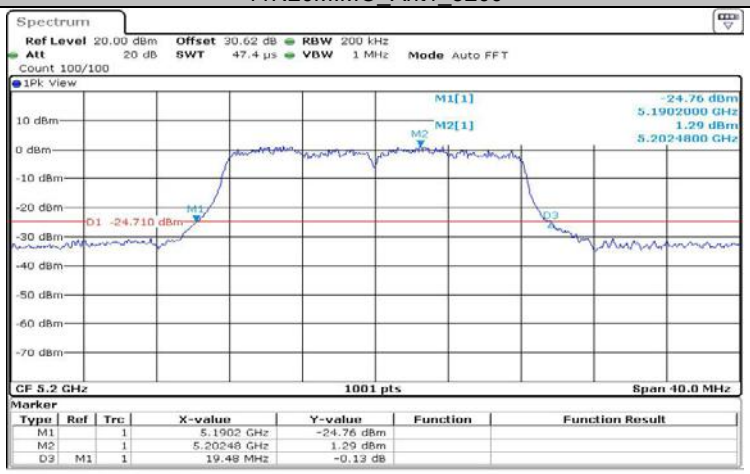

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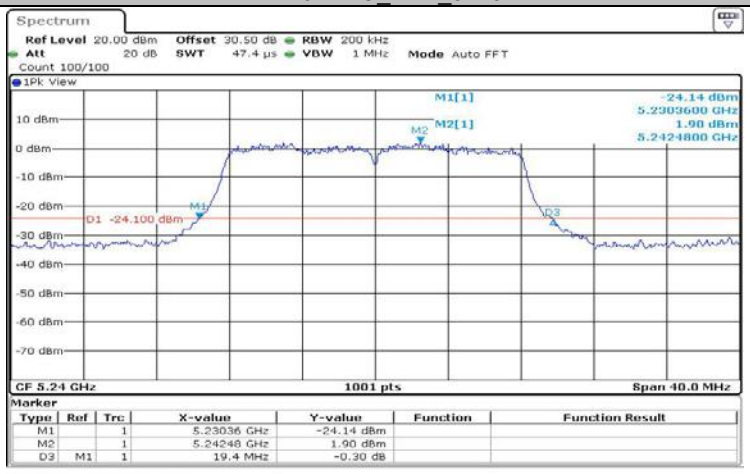

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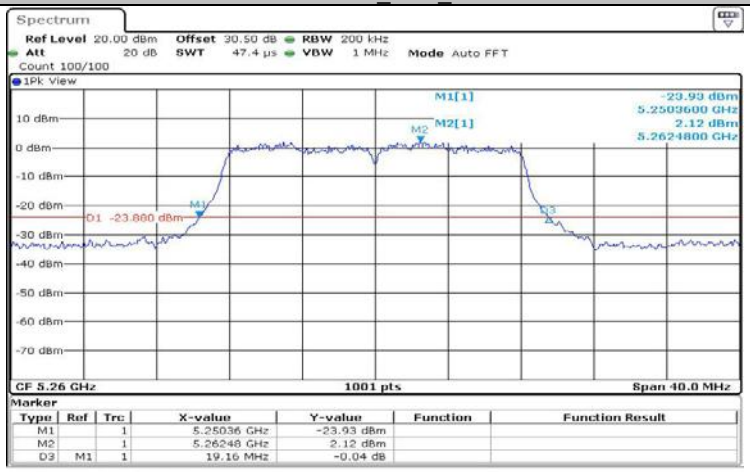

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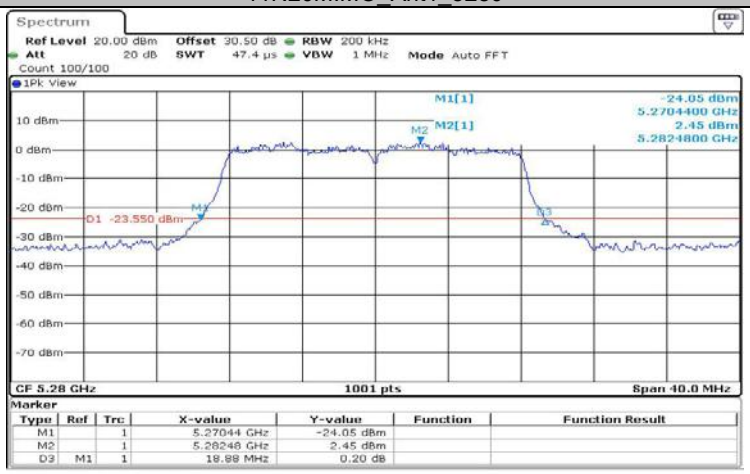

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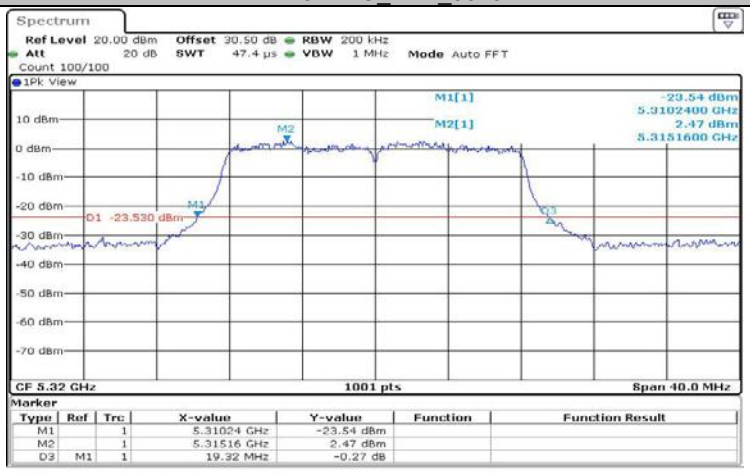

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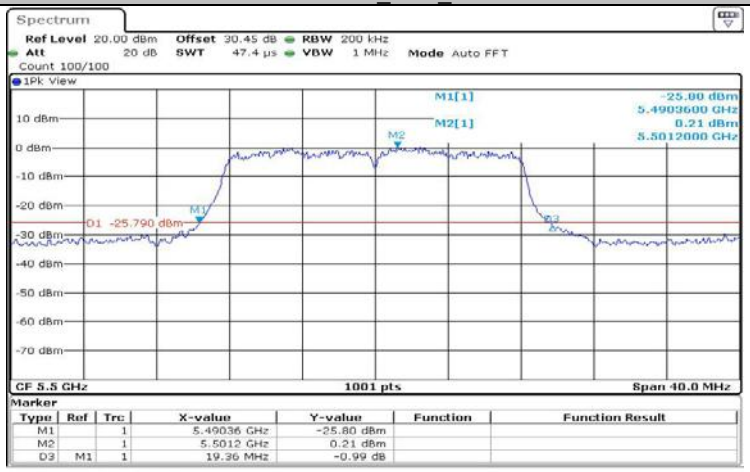

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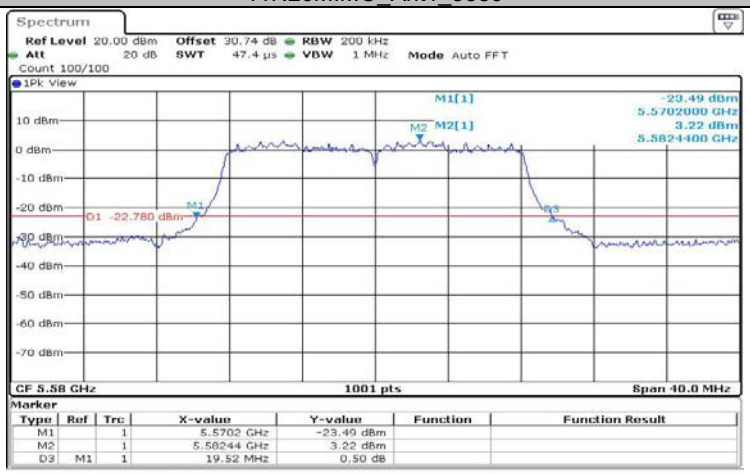

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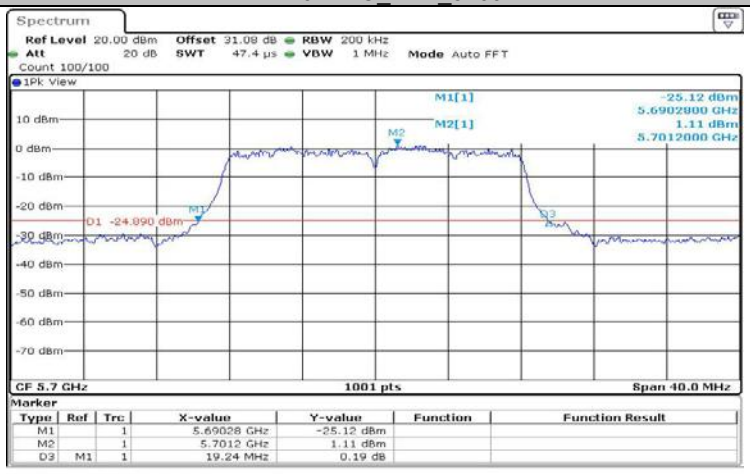

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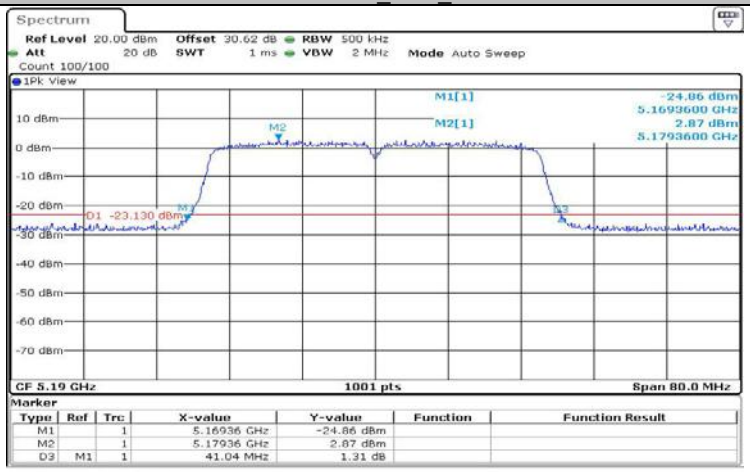

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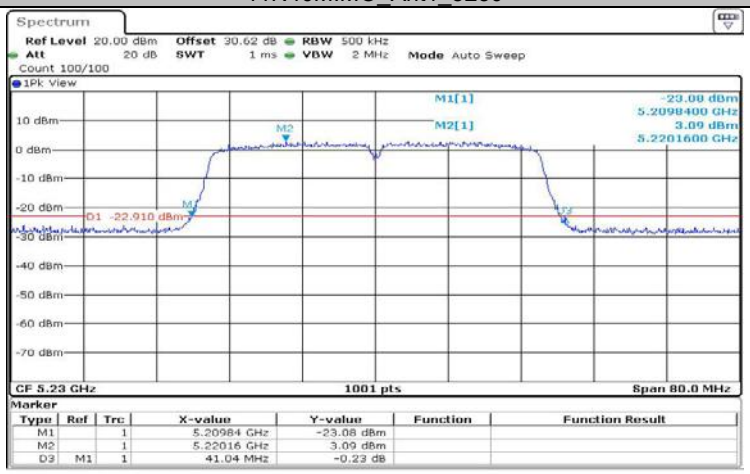

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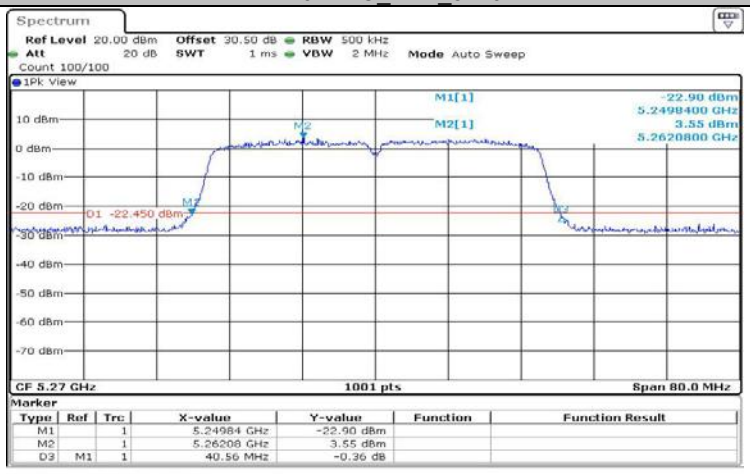

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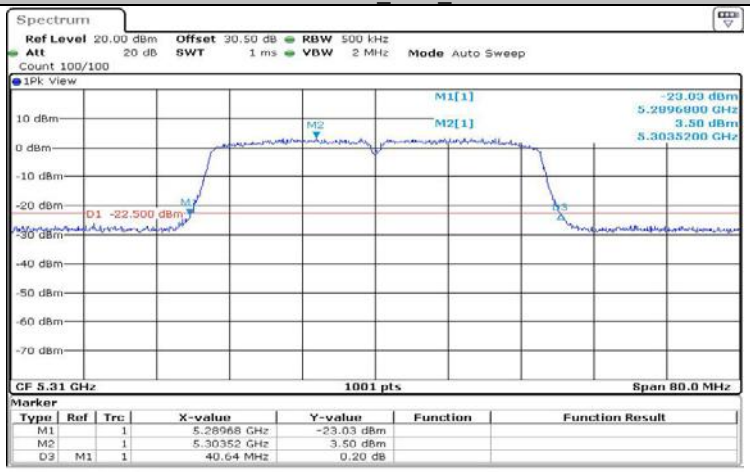

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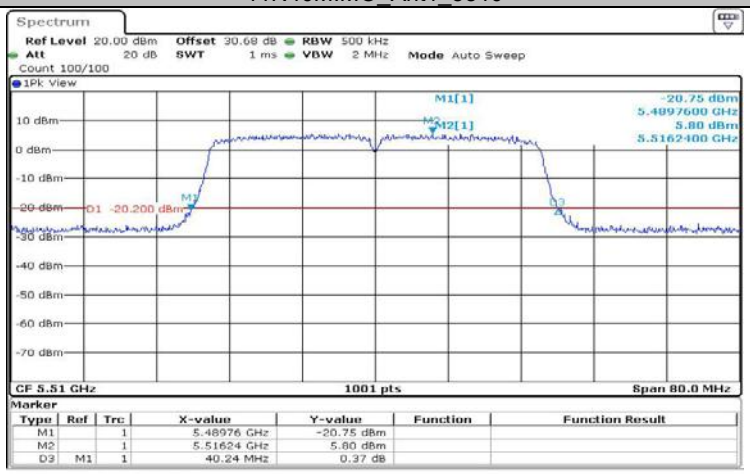

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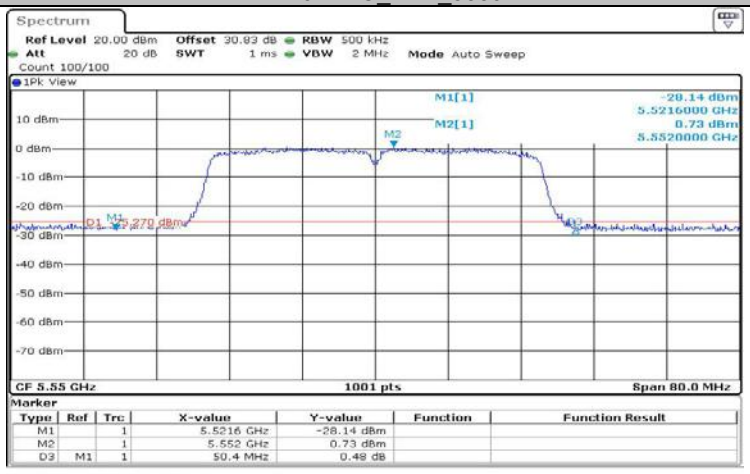

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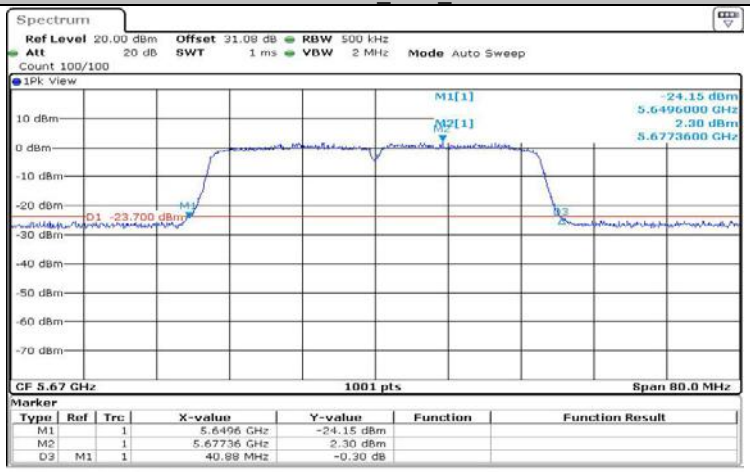

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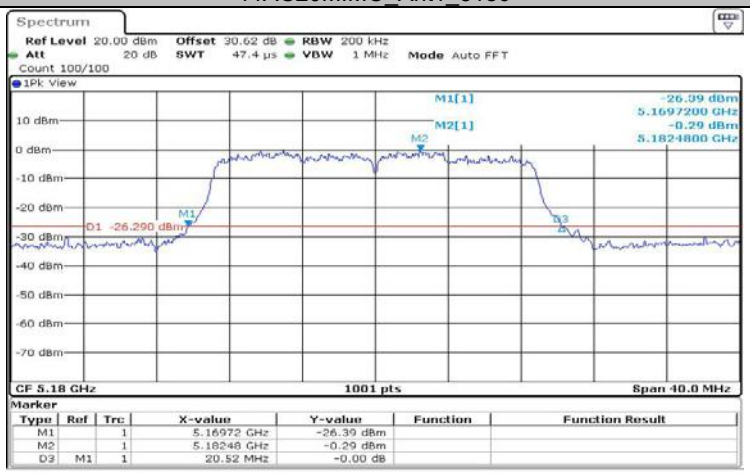

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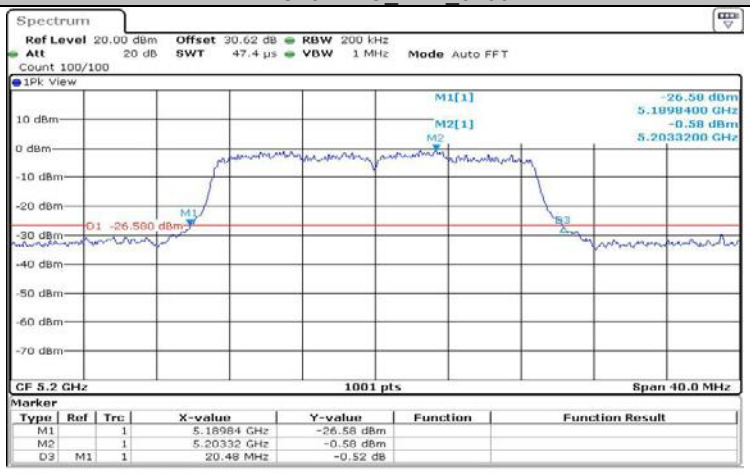

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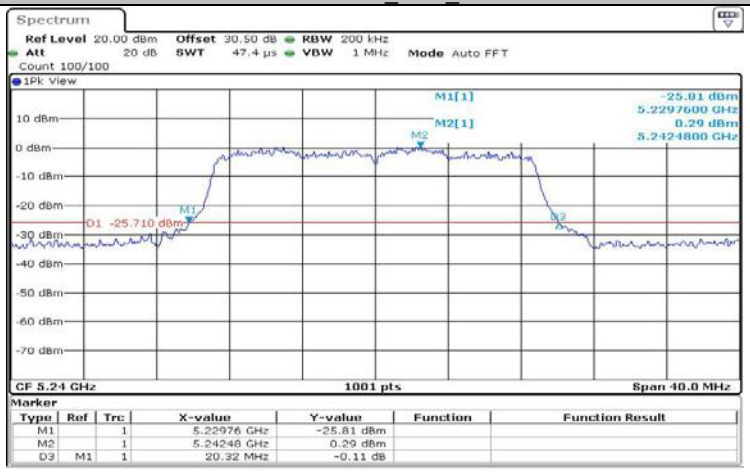

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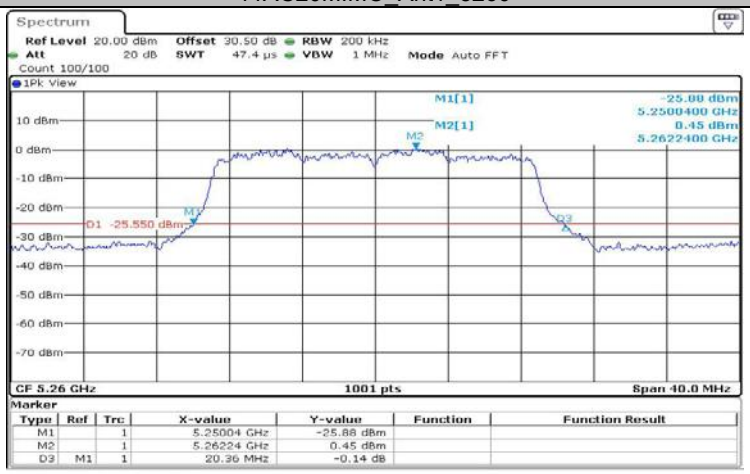

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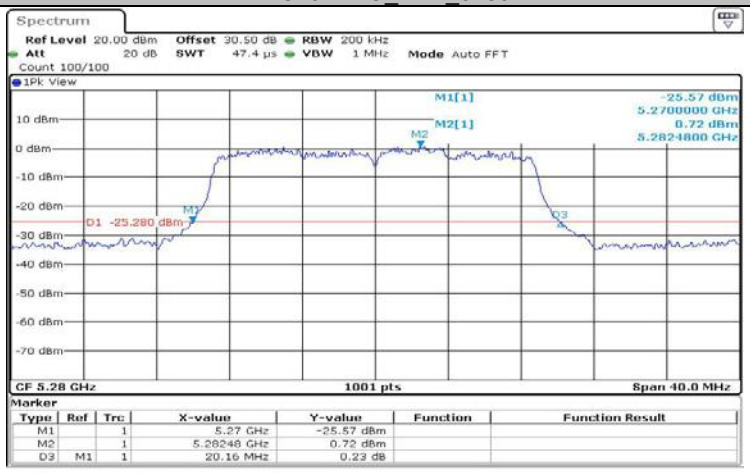

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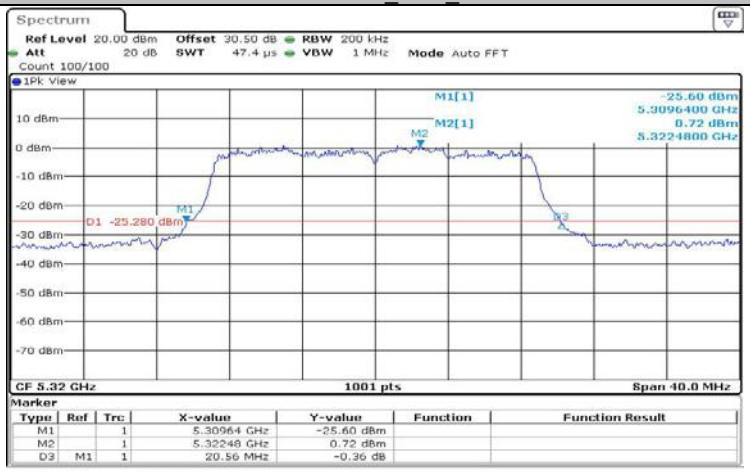

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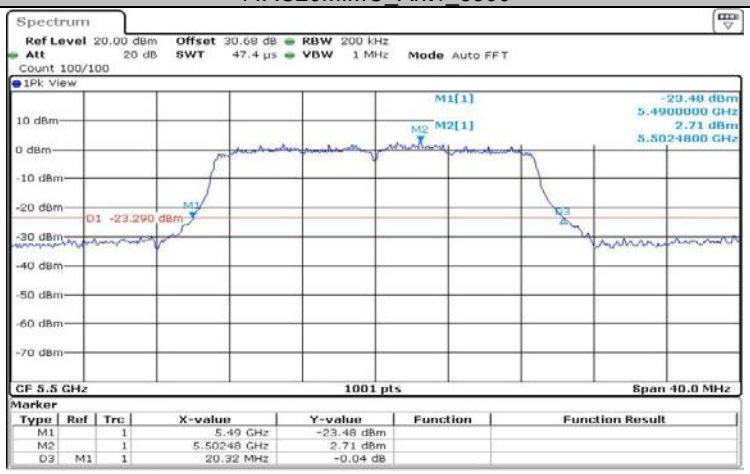

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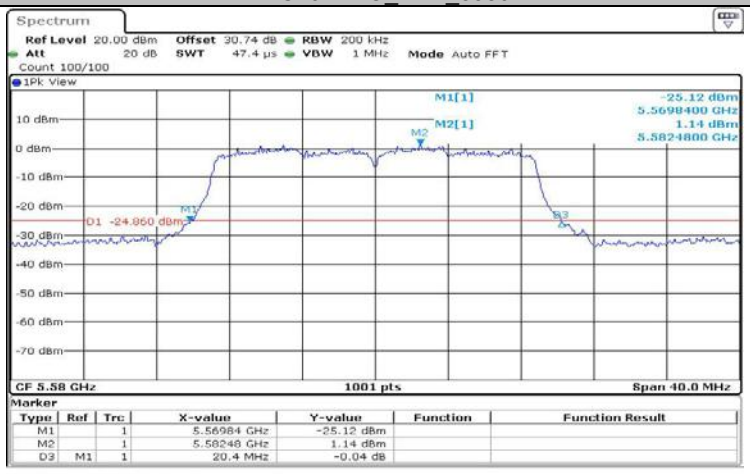
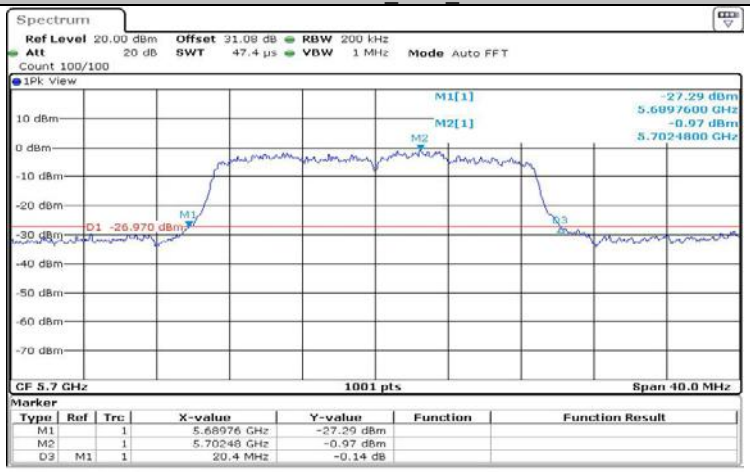
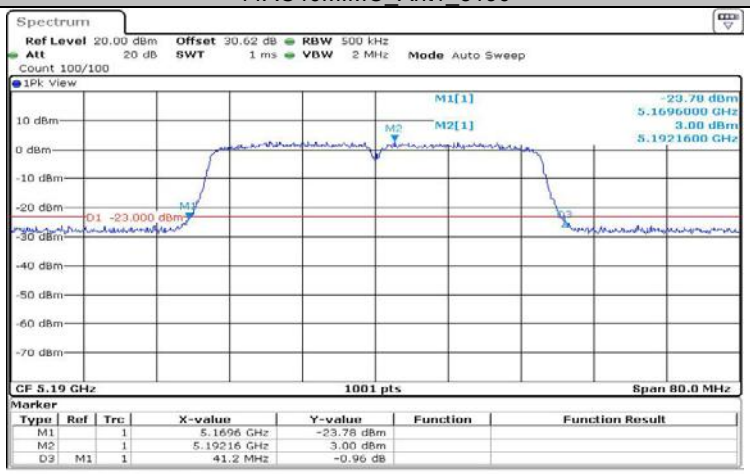


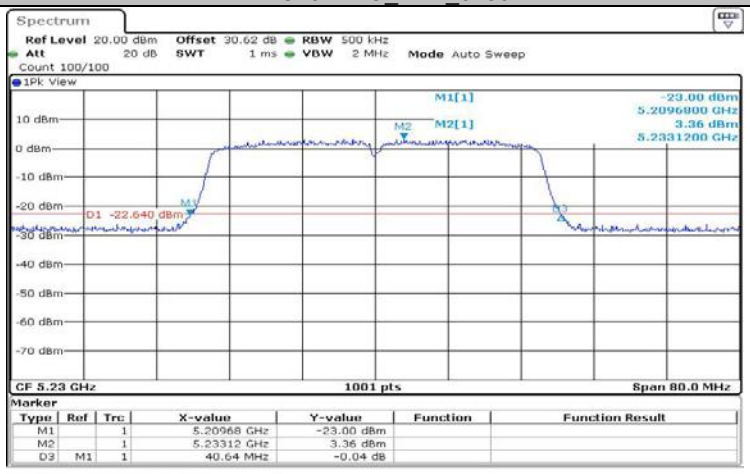
11AC20MIMO_Ant1_5700



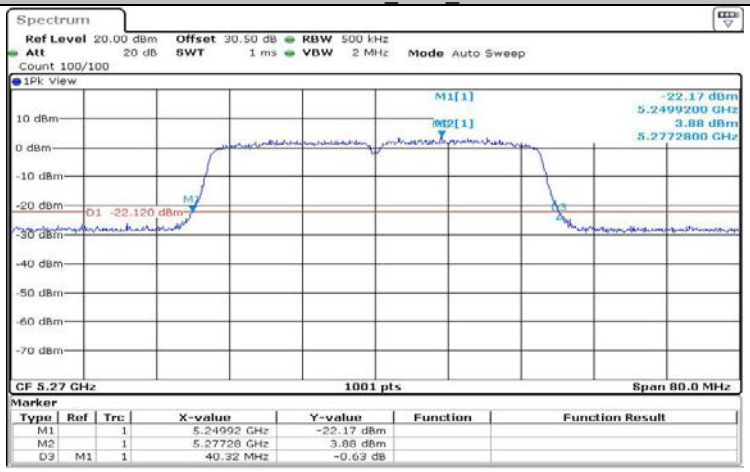
11AC40MIMO_Ant1_5190



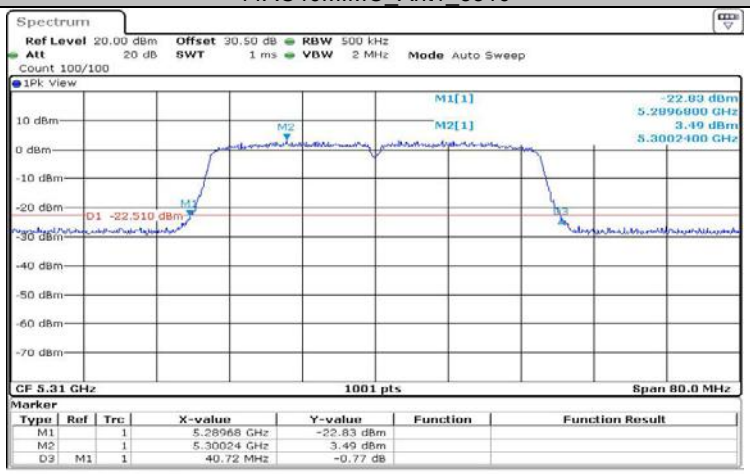
11AC40MIMO_Ant1_5230



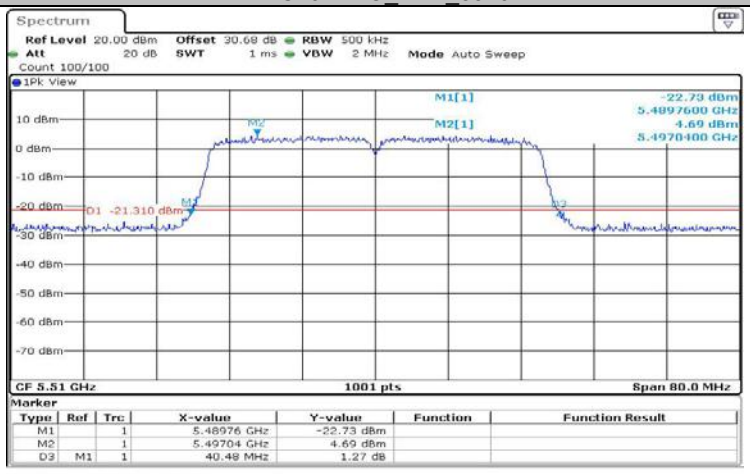
11AC40MIMO_Ant1_5270



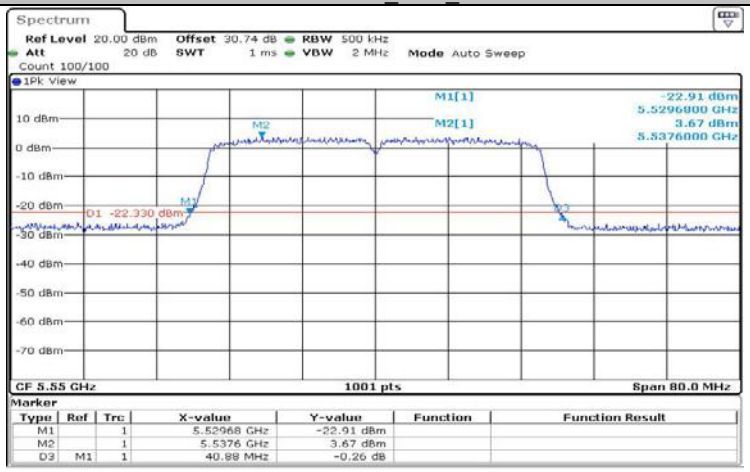
11AC40MIMO_Ant1_5310



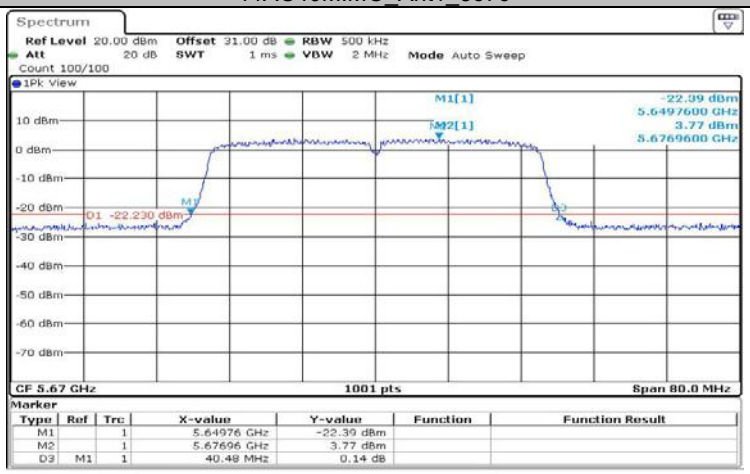
11AC40MIMO_Ant1_5510



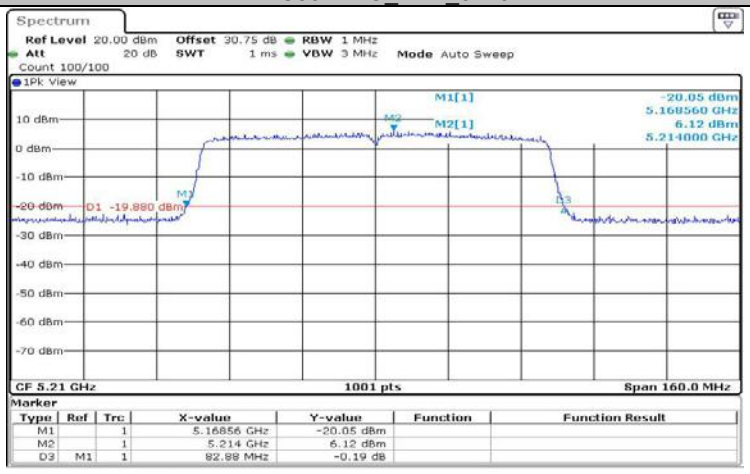
11AC40MIMO_Ant1_5550



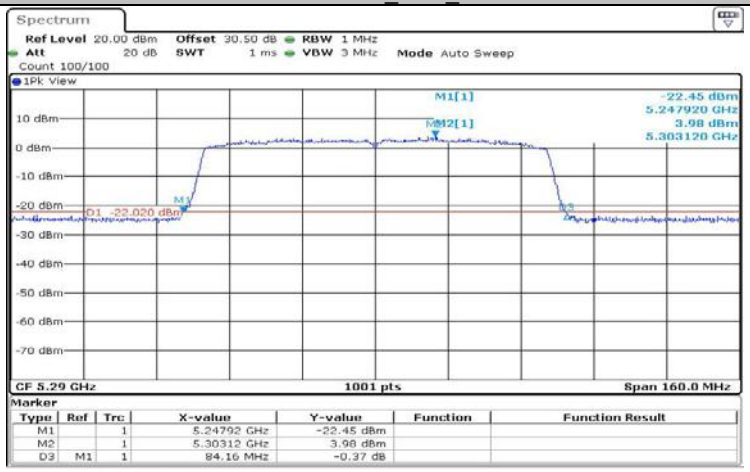
11AC40MIMO_Ant1_5670



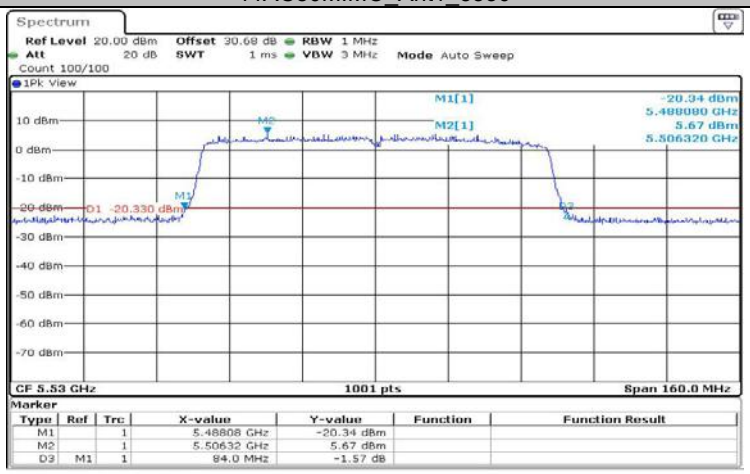
11AC80MIMO_Ant1_5210



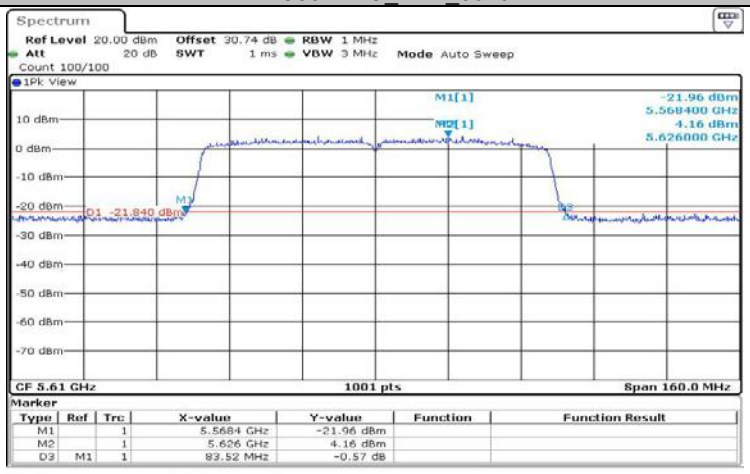
11AC80MIMO_Ant1_5290



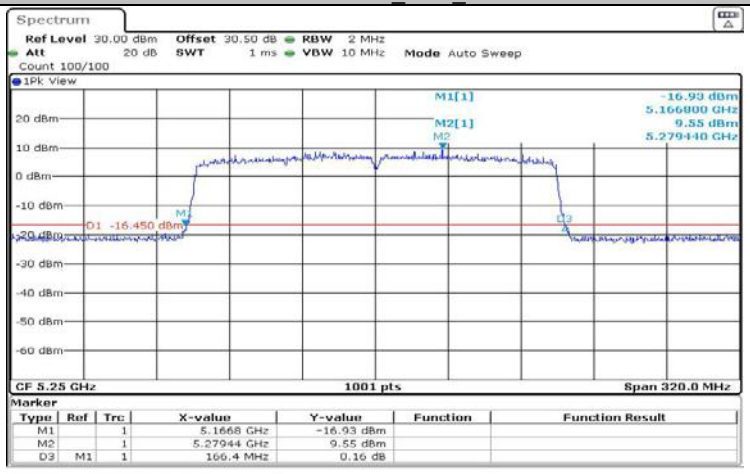
11AC80MIMO_Ant1_5530



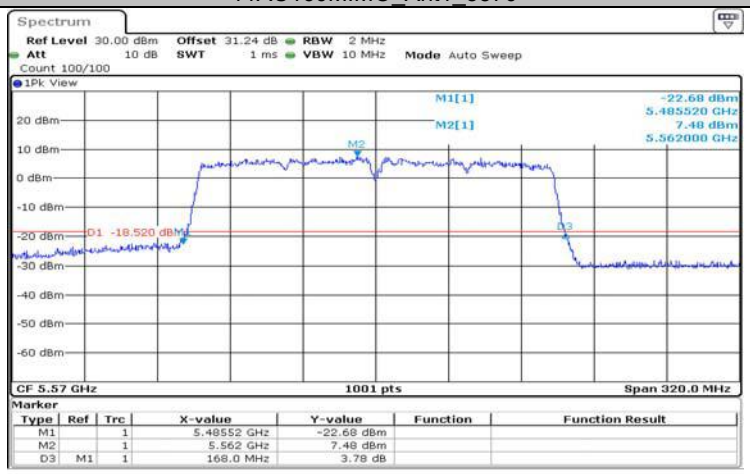
11AC80MIMO_Ant1_5610



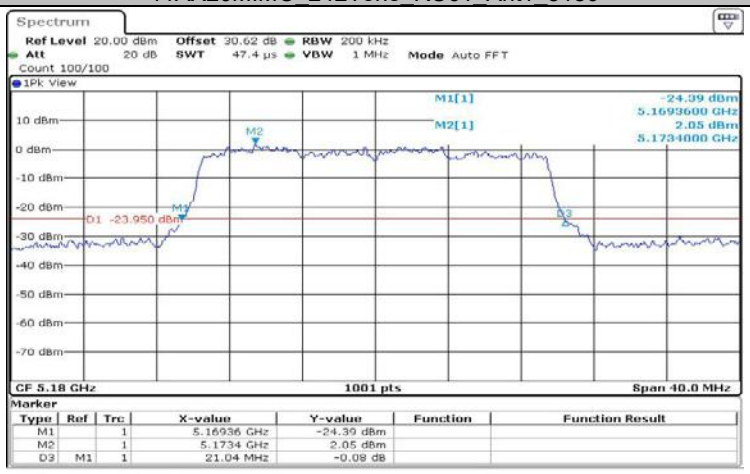
11AC160MIMO_Ant1_5250



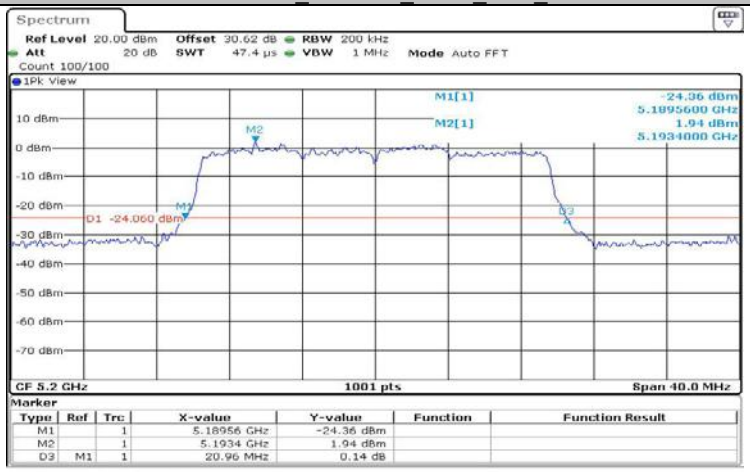
11AC160MIMO_Ant1_5570



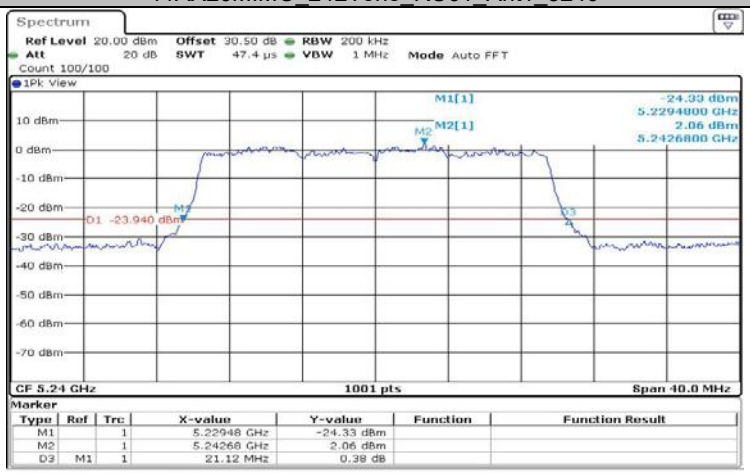
11AX20MIMO_242Tone_RU61_Ant1_5180



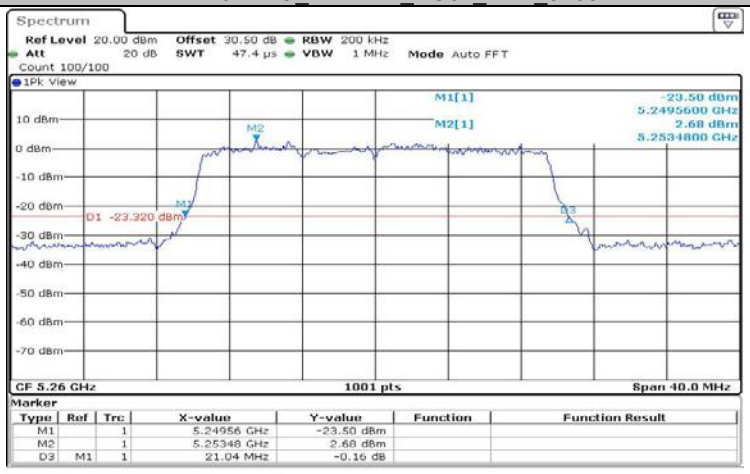
11AX20MIMO_242Tone_RU61_Ant1_5200



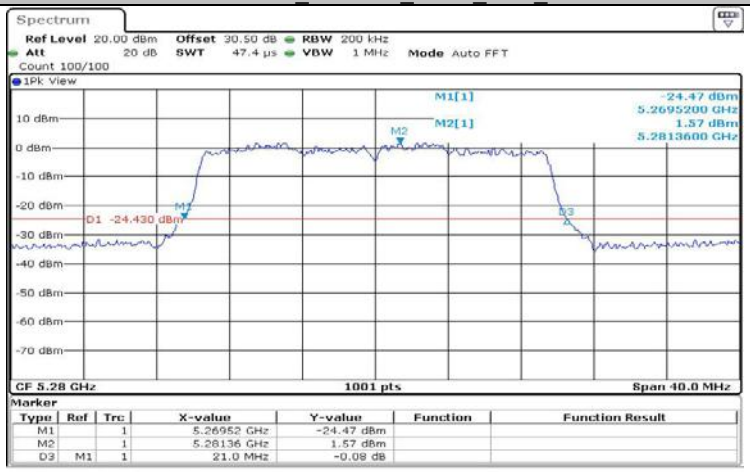
11AX20MIMO_242Tone_RU61_Ant1_5240



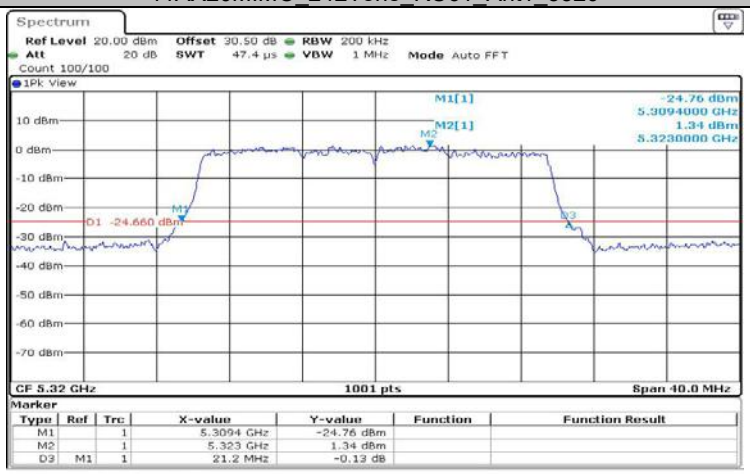
11AX20MIMO_242Tone_RU61_Ant1_5260



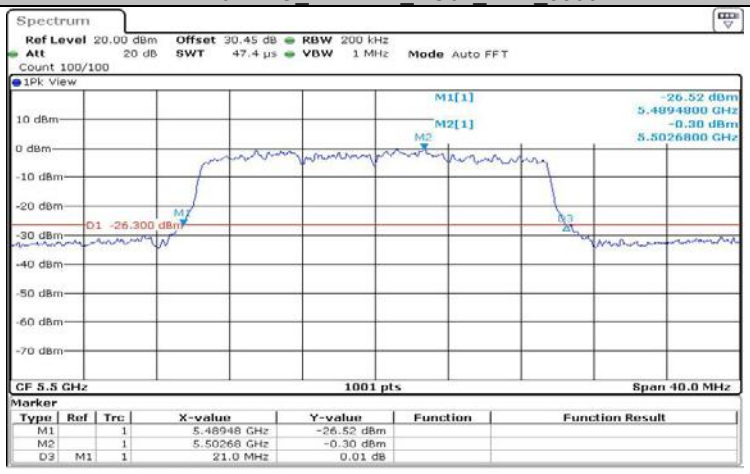
11AX20MIMO_242Tone_RU61_Ant1_5280



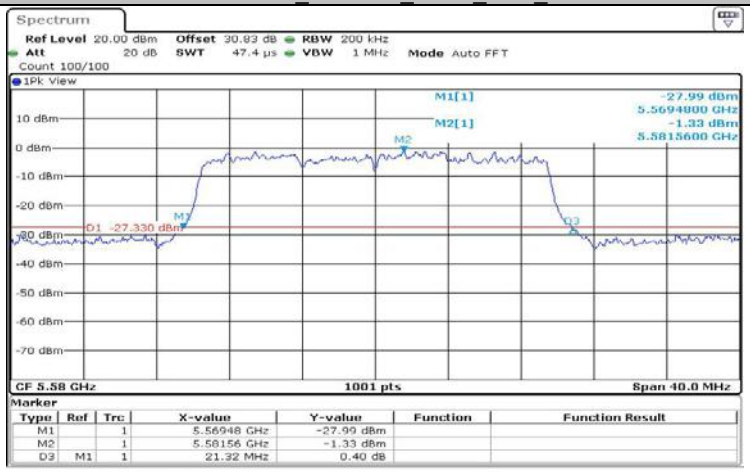
11AX20MIMO_242Tone_RU61_Ant1_5320



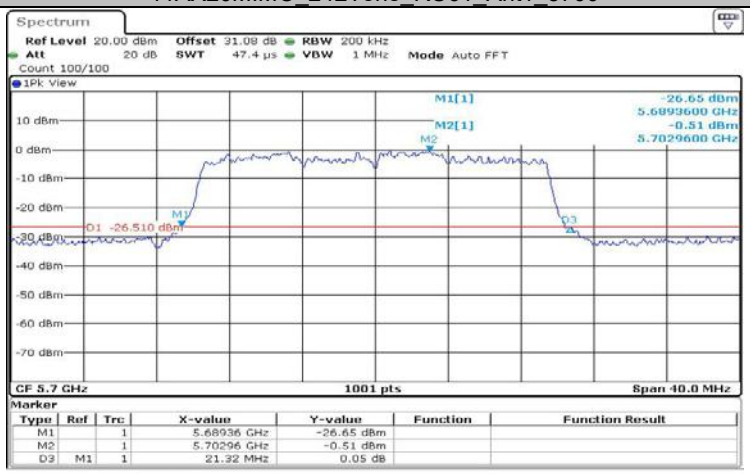
11AX20MIMO_242Tone_RU61_Ant1_5500



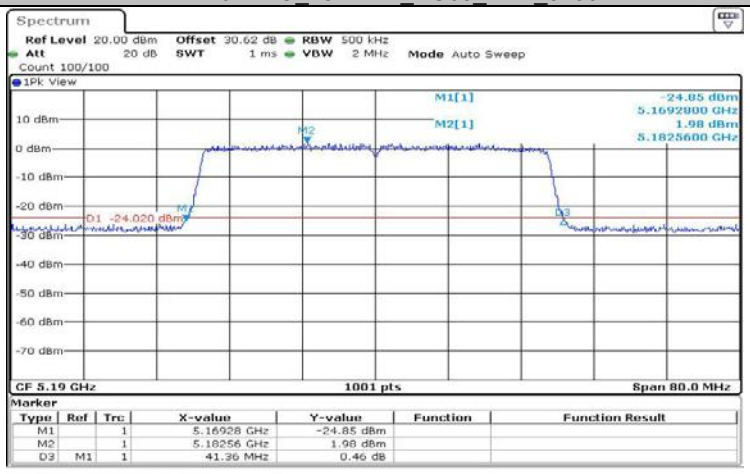
11AX20MIMO_242Tone_RU61_Ant1_5580



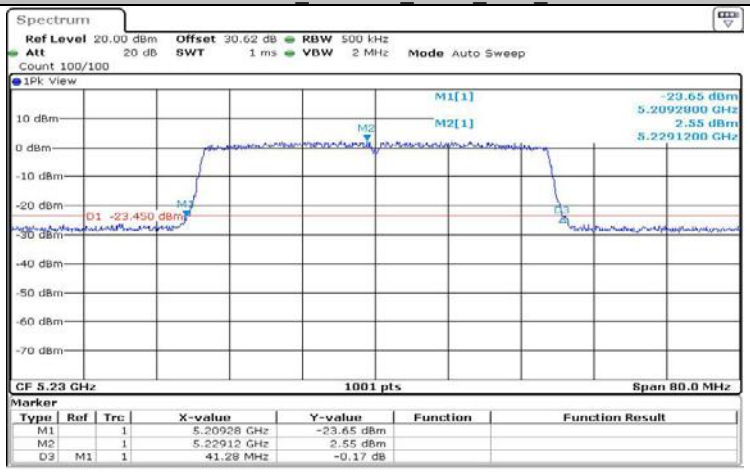
11AX20MIMO_242Tone_RU61_Ant1_5700



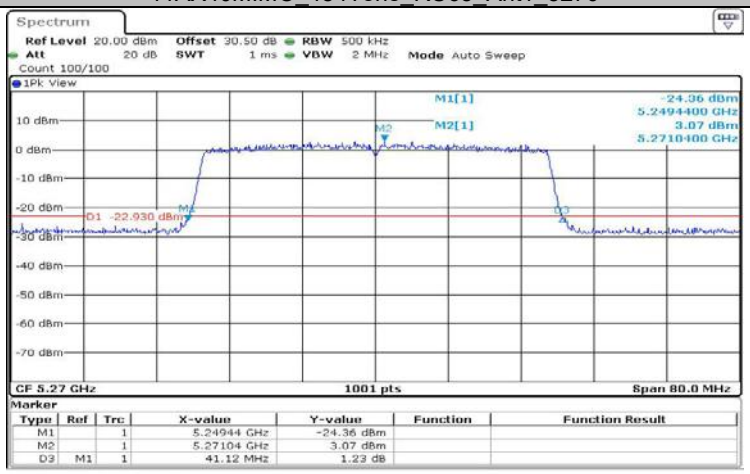
11AX40MIMO_484Tone_RU65_Ant1_5190



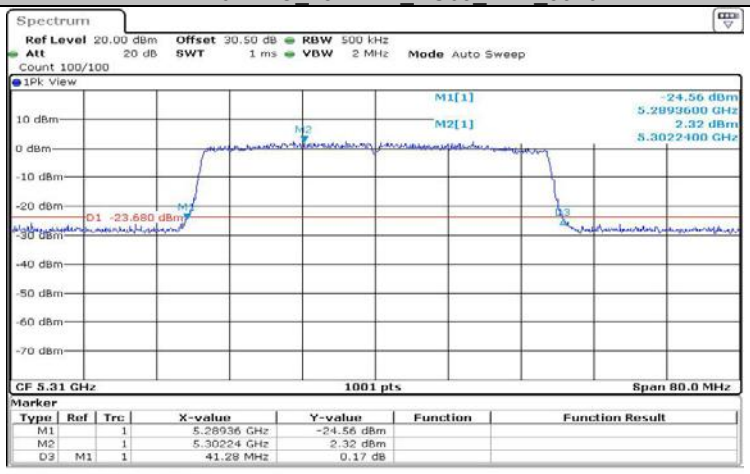
11AX40MIMO_484Tone_RU65_Ant1_5230



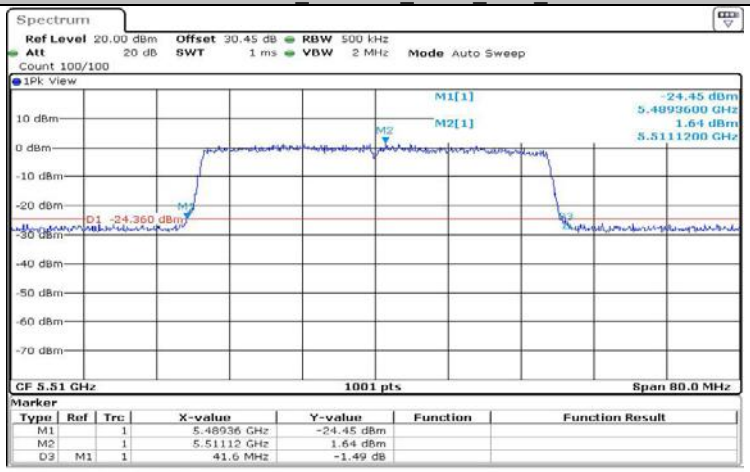
11AX40MIMO_484Tone_RU65_Ant1_5270



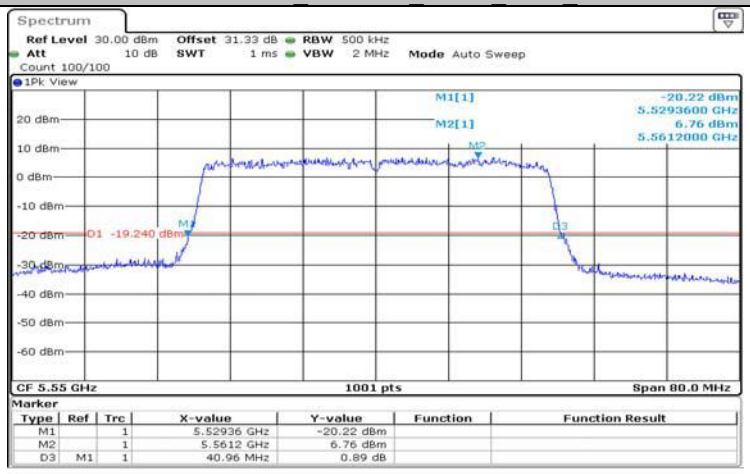
11AX40MIMO_484Tone_RU65_Ant1_5310



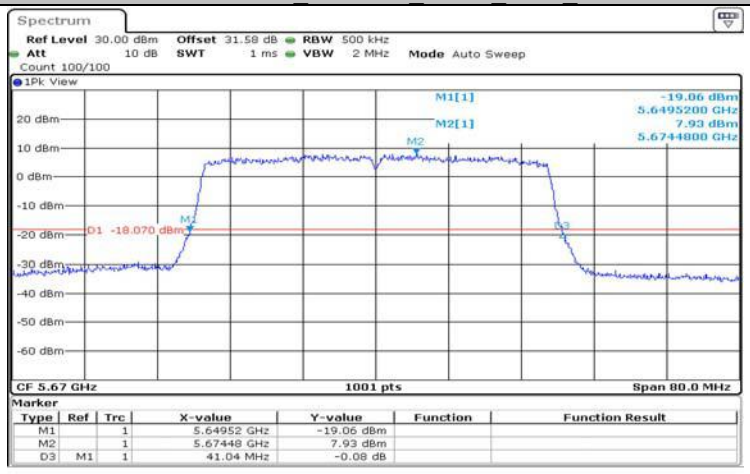
11AX40MIMO_484Tone_RU65_Ant1_5510



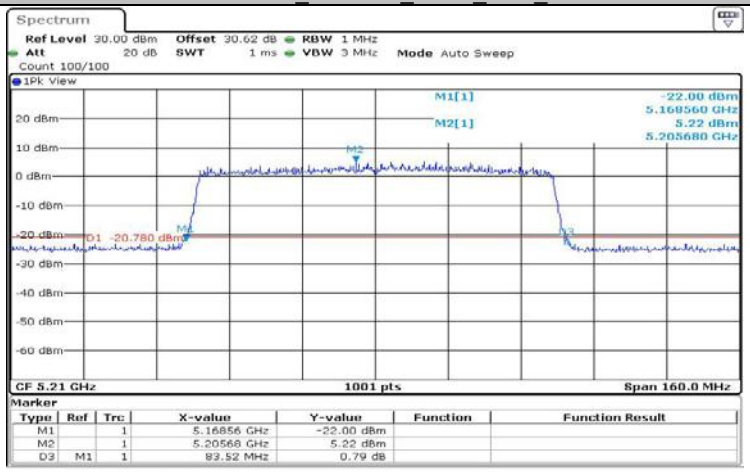
11AX40MIMO_484Tone_RU65_Ant1_5550



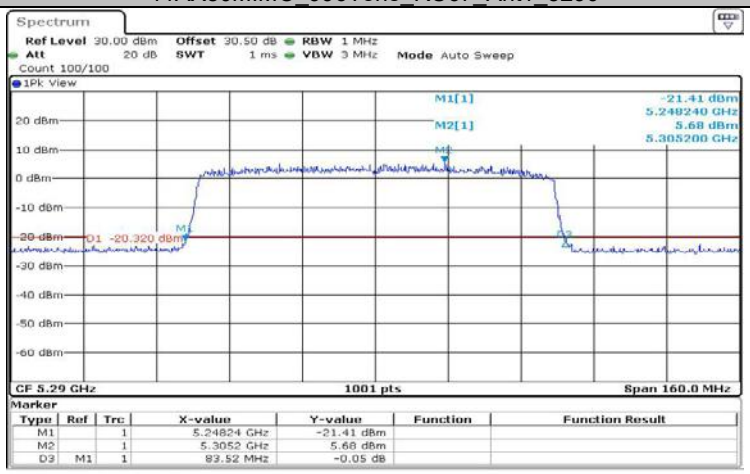
11AX40MIMO_484Tone_RU65_Ant1_5670



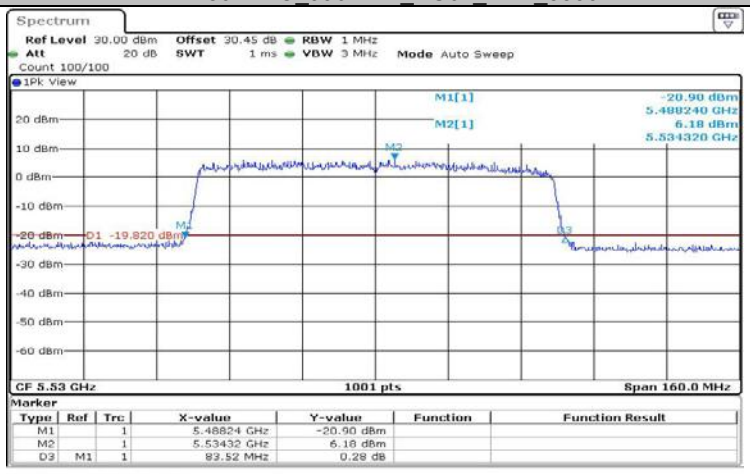
11AX80MIMO_996Tone_RU67_Ant1_5210



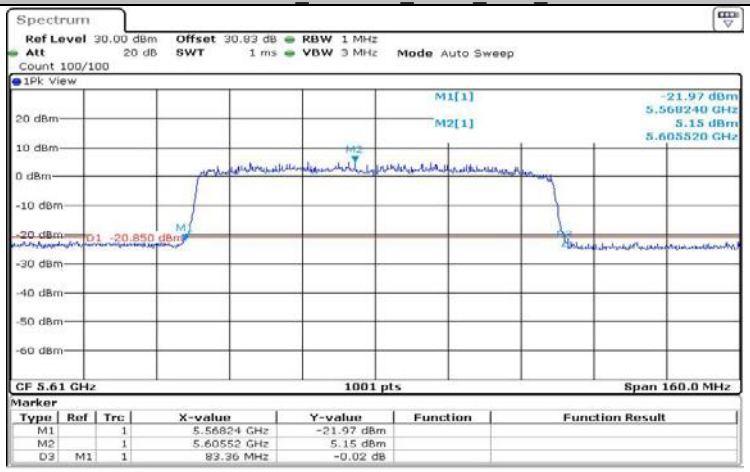
11AX80MIMO_996Tone_RU67_Ant1_5290



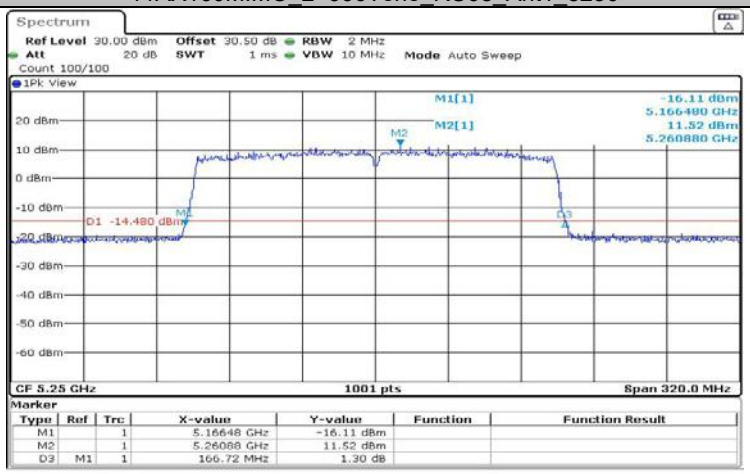
11AX80MIMO_996Tone_RU67_Ant1_5530



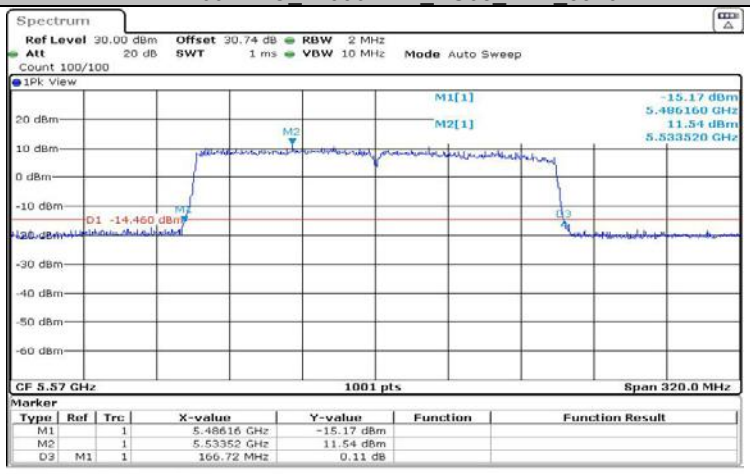
11AX80MIMO_996Tone_RU67_Ant1_5610



11AX160MIMO_2×996Tone_RU68_Ant1_5250



11AX160MIMO_2×996Tone_RU68_Ant1_5570



Appendix A2: Occupied channel bandwidth

Test Result (worst case)

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5180	16.823	5171.528	5188.352	---	---
	Ant1	5200	16.823	5191.528	5208.352	---	---
	Ant1	5240	16.823	5231.528	5248.352	---	---
	Ant1	5260	16.783	5251.568	5268.352	---	---
	Ant1	5280	16.743	5271.568	5288.312	---	---
	Ant1	5320	16.783	5311.528	5328.312	---	---
	Ant1	5500	16.863	5491.489	5508.352	---	---
	Ant1	5580	16.903	5571.449	5588.352	---	---
	Ant1	5700	16.863	5691.489	5708.352	---	---
	Ant1	5745	16.863	5736.489	5753.352	---	---
	Ant1	5785	16.863	5776.489	5793.352	---	---
	Ant1	5825	16.863	5816.489	5833.352	---	---
11N20MIMO	Ant1	5180	16.823	5171.528	5188.352	---	---
	Ant1	5200	16.823	5191.528	5208.352	---	---
	Ant1	5240	16.783	5231.528	5248.312	---	---
	Ant1	5260	16.783	5251.568	5268.352	---	---
	Ant1	5280	16.743	5271.568	5288.312	---	---
	Ant1	5320	16.783	5311.528	5328.312	---	---
	Ant1	5500	16.903	5491.449	5508.352	---	---
	Ant1	5580	16.903	5571.449	5588.352	---	---
	Ant1	5700	16.863	5691.489	5708.352	---	---
	Ant1	5745	16.863	5736.489	5753.352	---	---
	Ant1	5785	16.903	5776.449	5793.352	---	---
	Ant1	5825	16.903	5816.449	5833.352	---	---
11N40MIMO	Ant1	5190	36.364	5171.858	5208.222	---	---
	Ant1	5230	36.444	5211.858	5248.302	---	---
	Ant1	5270	36.444	5251.858	5288.302	---	---
	Ant1	5310	36.364	5291.858	5328.222	---	---
	Ant1	5510	36.523	5491.698	5528.222	---	---
	Ant1	5550	36.523	5531.698	5568.222	---	---
	Ant1	5670	36.603	5651.698	5688.302	---	---
	Ant1	5755	36.444	5736.778	5773.222	---	---
	Ant1	5795	36.523	5776.698	5813.222	---	---
11AC20MIMO	Ant1	5180	17.982	5171.009	5188.991	---	---
	Ant1	5200	17.982	5191.009	5208.991	---	---
	Ant1	5240	17.902	5231.049	5248.951	---	---
	Ant1	5260	17.942	5251.049	5268.991	---	---
	Ant1	5280	17.902	5271.049	5288.951	---	---
	Ant1	5320	17.902	5311.049	5328.951	---	---
	Ant1	5500	18.022	5490.969	5508.991	---	---
	Ant1	5580	18.062	5570.929	5588.991	---	---
	Ant1	5700	18.022	5690.969	5708.991	---	---
	Ant1	5745	17.982	5735.969	5753.951	---	---
	Ant1	5785	17.942	5776.009	5793.951	---	---
	Ant1	5825	17.982	5815.969	5833.951	---	---
11AC40MIMO	Ant1	5190	36.444	5171.778	5208.222	---	---
	Ant1	5230	36.284	5211.938	5248.222	---	---
	Ant1	5270	36.364	5251.858	5288.222	---	---
	Ant1	5310	36.444	5291.778	5328.222	---	---
	Ant1	5510	36.523	5491.698	5528.222	---	---
	Ant1	5550	36.683	5531.618	5568.302	---	---
	Ant1	5670	36.523	5651.778	5688.302	---	---
	Ant1	5755	36.683	5736.698	5773.382	---	---
	Ant1	5795	36.603	5776.698	5813.302	---	---
11AC80MIMO	Ant1	5210	76.084	5172.118	5248.202	---	---

	Ant1	5290	75.764	5252.118	5327.882	---	---
	Ant1	5530	76.404	5491.638	5568.042	---	---
	Ant1	5610	76.563	5571.638	5648.202	---	---
	Ant1	5775	76.244	5736.958	5813.202	---	---
11AC160MIMO	Ant1	5250	157.922	5171.359	5329.281	---	---
	Ant1	5570	158.242	5491.039	5649.281	---	---
11AX20MIMO_242Tone_RU61	Ant1	5180	19.061	5170.450	5189.510	---	---
	Ant1	5200	19.021	5190.490	5209.510	---	---
	Ant1	5240	19.101	5230.450	5249.550	---	---
	Ant1	5260	19.021	5250.490	5269.510	---	---
	Ant1	5280	19.101	5270.450	5289.550	---	---
	Ant1	5320	19.061	5310.450	5329.510	---	---
	Ant1	5500	19.061	5490.450	5509.510	---	---
	Ant1	5580	19.101	5570.410	5589.510	---	---
	Ant1	5700	19.101	5690.410	5709.510	---	---
	Ant1	5745	19.101	5735.410	5754.510	---	---
	Ant1	5785	19.021	5775.450	5794.471	---	---
	Ant1	5825	19.021	5815.450	5834.471	---	---
11AX40MIMO_484Tone_RU65	Ant1	5190	38.202	5170.979	5209.181	---	---
	Ant1	5230	38.122	5210.979	5249.101	---	---
	Ant1	5270	38.122	5250.979	5289.101	---	---
	Ant1	5310	38.042	5290.979	5329.021	---	---
	Ant1	5510	38.122	5490.899	5529.021	---	---
	Ant1	5550	38.122	5530.899	5569.021	---	---
	Ant1	5670	38.202	5650.899	5689.101	---	---
	Ant1	5755	38.202	5735.899	5774.101	---	---
	Ant1	5795	38.202	5775.899	5814.101	---	---
11AX80MIMO_996Tone_RU67	Ant1	5210	77.842	5171.159	5249.001	---	---
	Ant1	5290	77.842	5251.159	5329.001	---	---
	Ant1	5530	78.482	5490.679	5569.161	---	---
	Ant1	5610	78.482	5570.679	5649.161	---	---
	Ant1	5775	78.322	5735.999	5814.321	---	---
11AX160MIMO_2×996Tone_RU68	Ant1	5250	157.922	5171.039	5328.961	---	---
	Ant1	5570	158.561	5490.400	5648.961	---	---

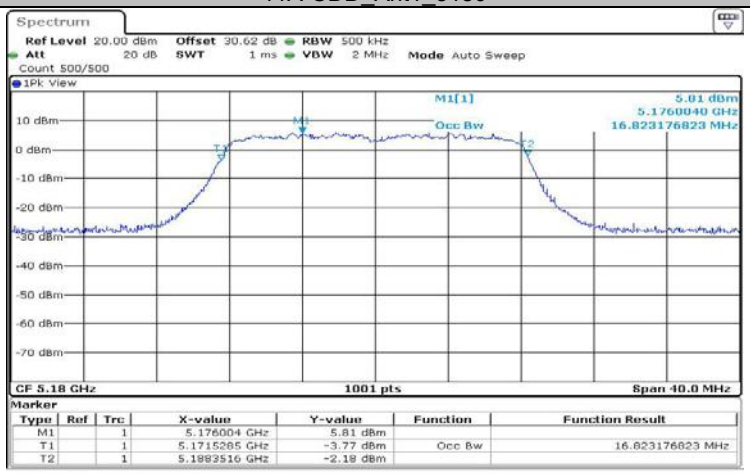
Note1: For 5150~5250MHz (except 802.11 ac160/ax160 channel 50) and 5725~5850 MHz bands, no transmitted signal in the 99% bandwidth extends into the U-NII-2A band and U-NII-2C band.

Note2: Evaluated the DFS related test items for channel 50. Please refer to report S220928-44462E-RF-00D for the test data.

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant1	5845	16.743	5836.568	5853.312	---	---
	Ant1	5865	16.783	5856.568	5873.352	---	---
	Ant1	5885	16.783	5876.528	5893.312	---	---
11N20MIMO	Ant1	5845	17.822	5836.049	5853.871	---	---
	Ant1	5865	17.822	5856.089	5873.911	---	---
	Ant1	5885	17.822	5876.049	5893.871	---	---
11N40MIMO	Ant1	5835	36.284	5816.858	5853.142	---	---
	Ant1	5875	36.204	5856.938	5893.142	---	---
11AC20MIMO	Ant1	5845	17.862	5836.049	5853.911	---	---
	Ant1	5865	17.822	5856.089	5873.911	---	---
	Ant1	5885	17.822	5876.049	5893.871	---	---
11AC40MIMO	Ant1	5835	36.284	5816.858	5853.142	---	---
	Ant1	5875	36.204	5856.938	5893.142	---	---
11AC80MIMO	Ant1	5855	75.604	5817.278	5892.882	---	---
11AC160MIMO	Ant1	5815	154.725	5737.957	5892.682	---	---
11AX20MIMO_242Tone_RU61	Ant1	5845	19.021	5835.490	5854.510	---	---
	Ant1	5865	19.021	5855.490	5874.510	---	---
	Ant1	5885	18.981	5875.490	5894.471	---	---
11AX40MIMO_484Tone_RU65	Ant1	5835	37.962	5816.059	5854.021	---	---
	Ant1	5875	37.962	5856.059	5894.021	---	---
11AX80MIMO_996Tone_RU67	Ant1	5855	77.522	5816.319	5893.841	---	---
11AX160MIMO_2×996Tone_RU68	Ant1	5815	156.324	5736.998	5893.322	---	---

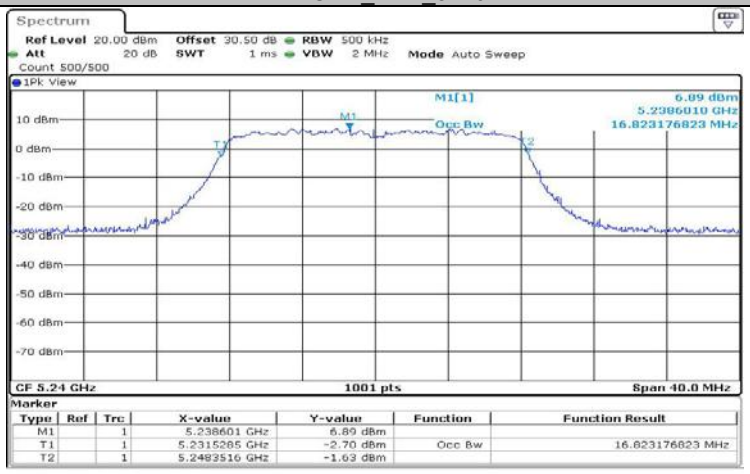
Test Graphs

11A-CDD_Ant1_5180

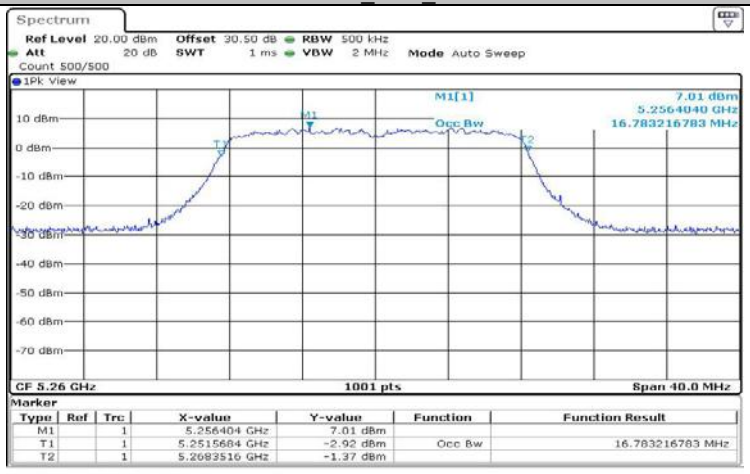


11A-CDD_Ant1_5200

11A-CDD_Ant1_5240

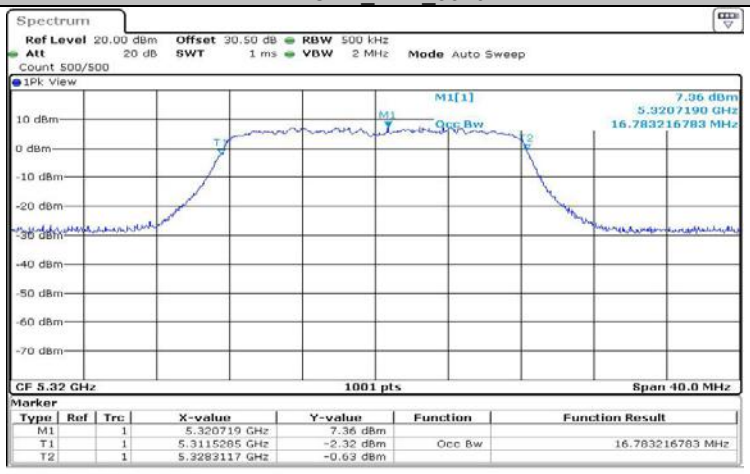


11A-CDD_Ant1_5260

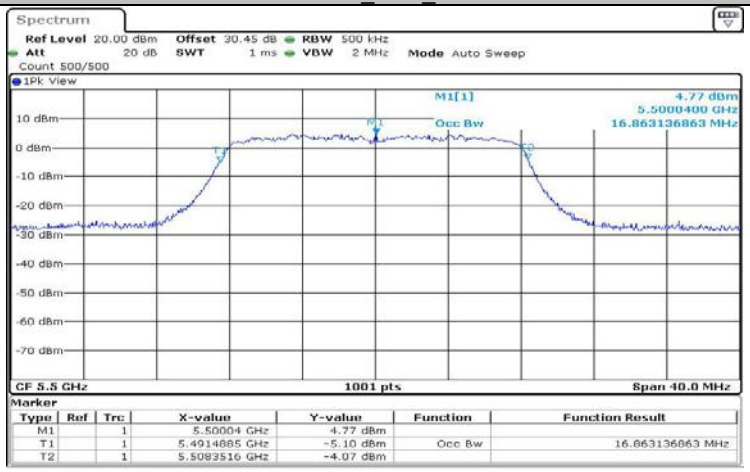


11A-CDD_Ant1_5280

11A-CDD_Ant1_5320



11A-CDD_Ant1_5500



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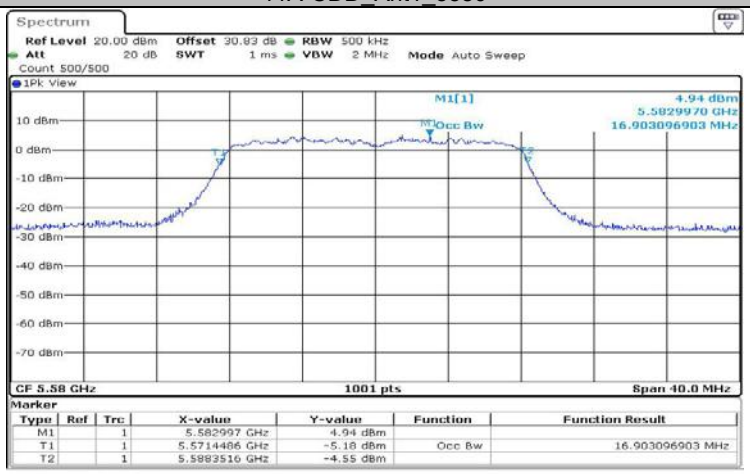
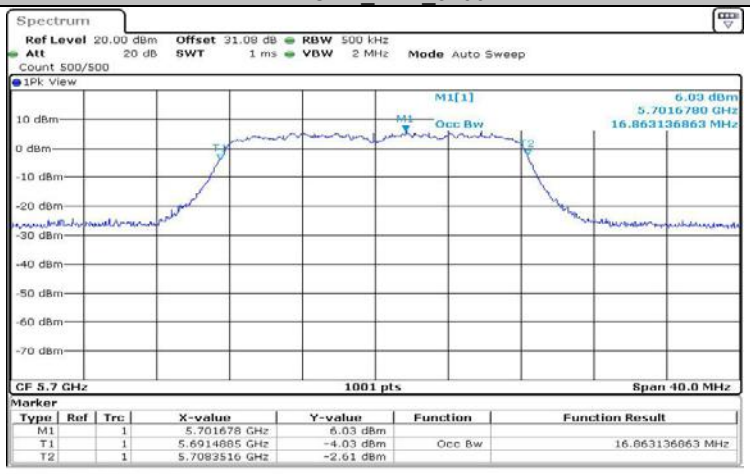
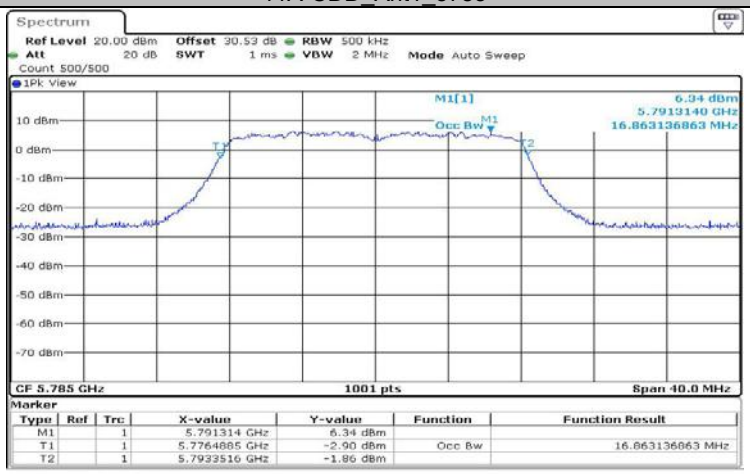


11A-CDD_Ant1_5700



11A-CDD_Ant1_5745

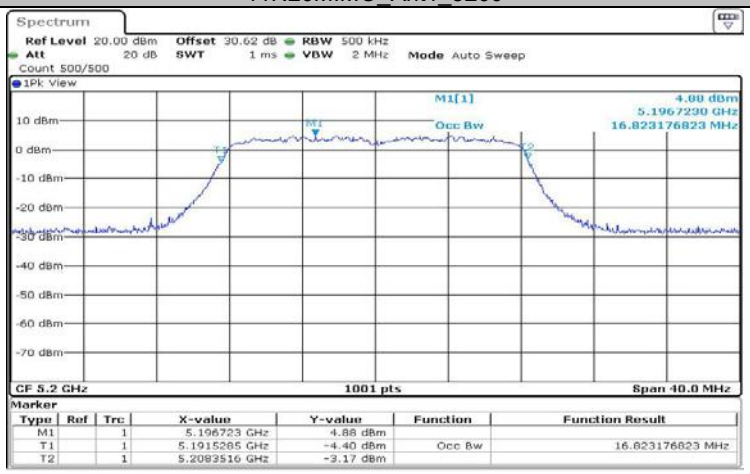
11A-CDD_Ant1_5785



11A-CDD_Ant1_5825

11N20MIMO_Ant1_5180

11N20MIMO_Ant1_5200



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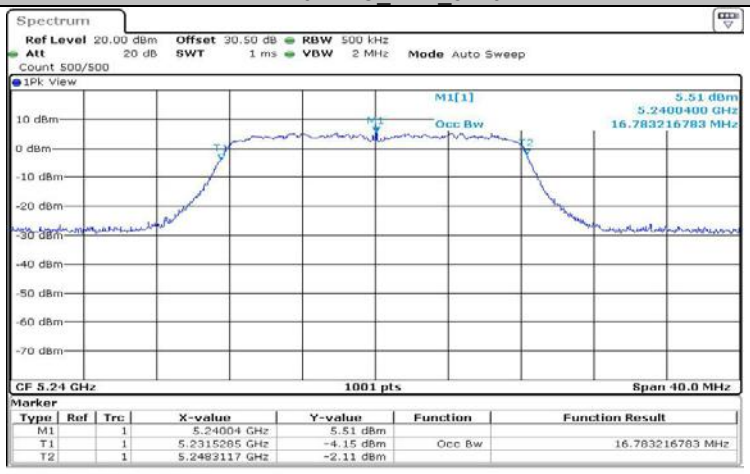
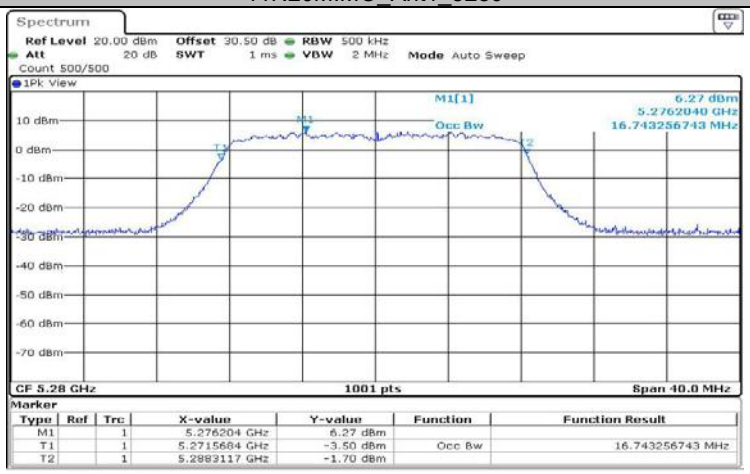


11N20MIMO_Ant1_5260

11N20MIMO_Ant1_5280



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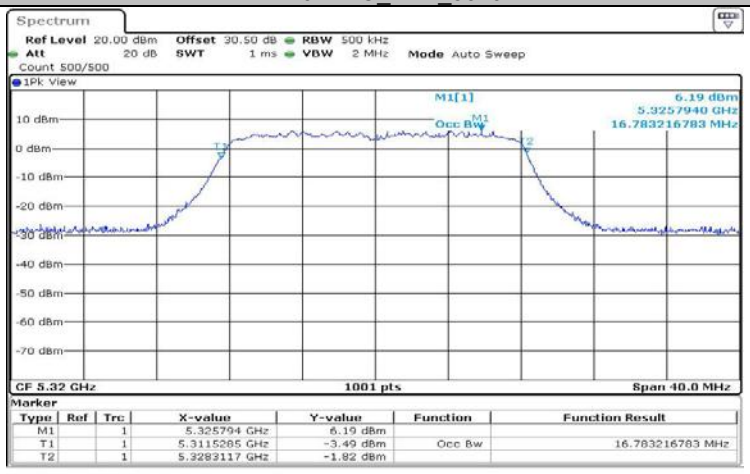

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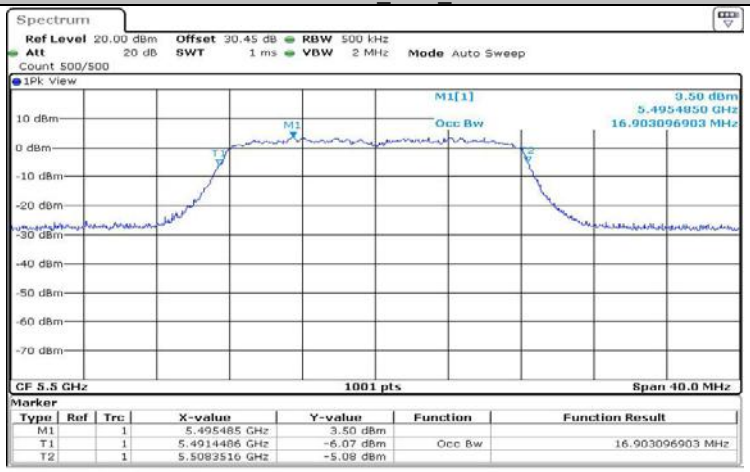

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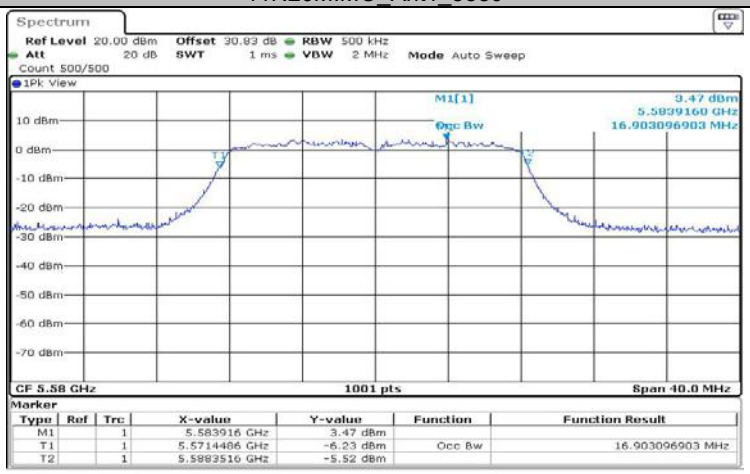

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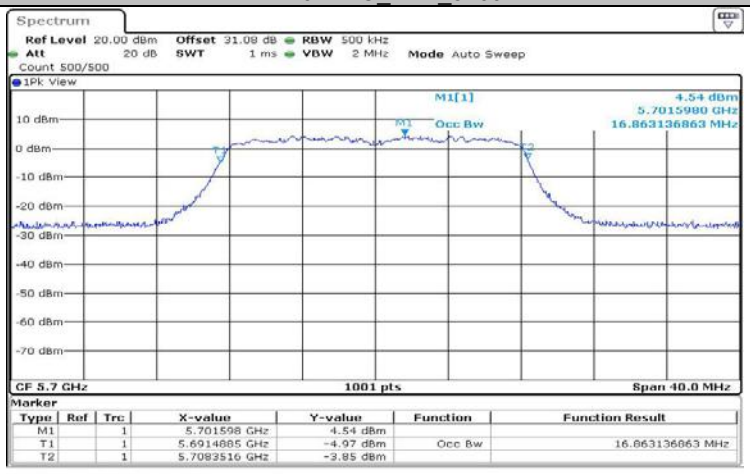
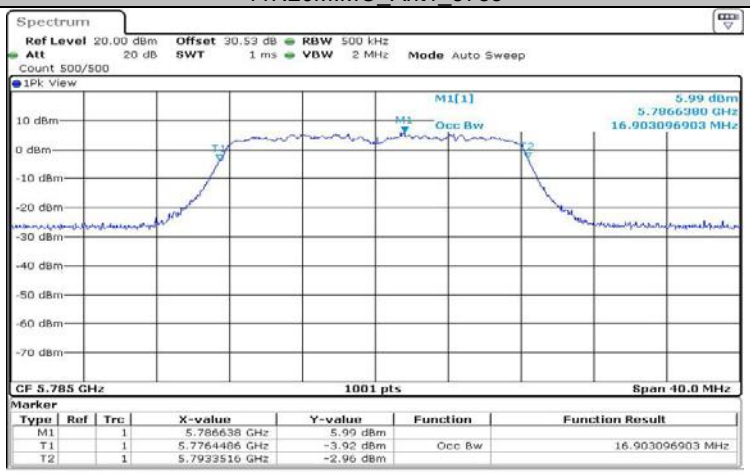
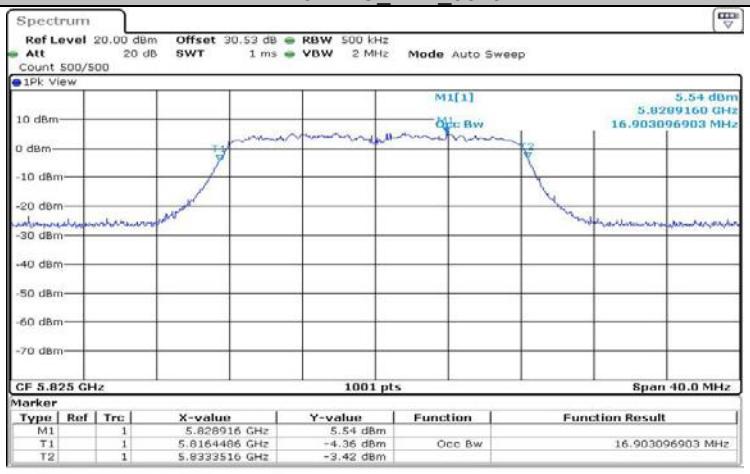


11N20MIMO_Ant1_5745

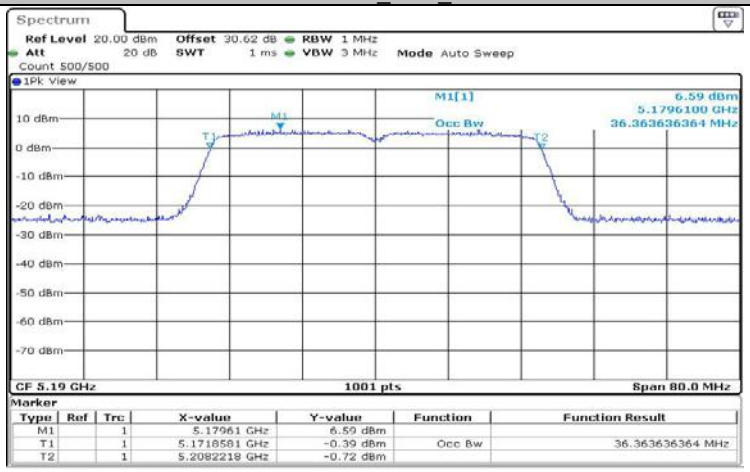
11N20MIMO_Ant1_5785



11N20MIMO_Ant1_5825



11N40MIMO_Ant1_5190



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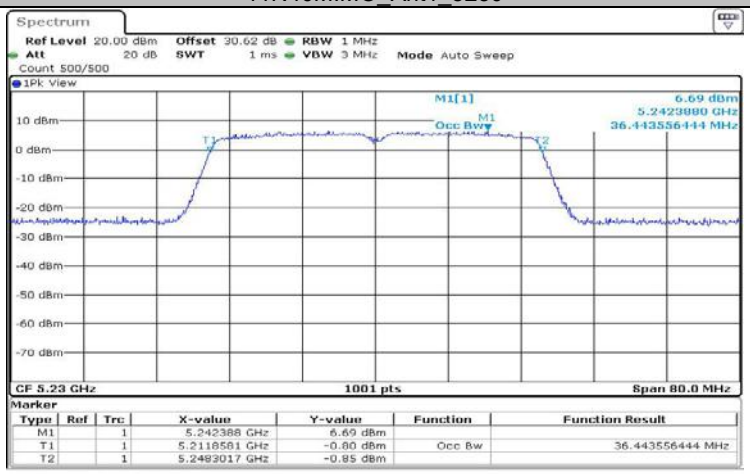

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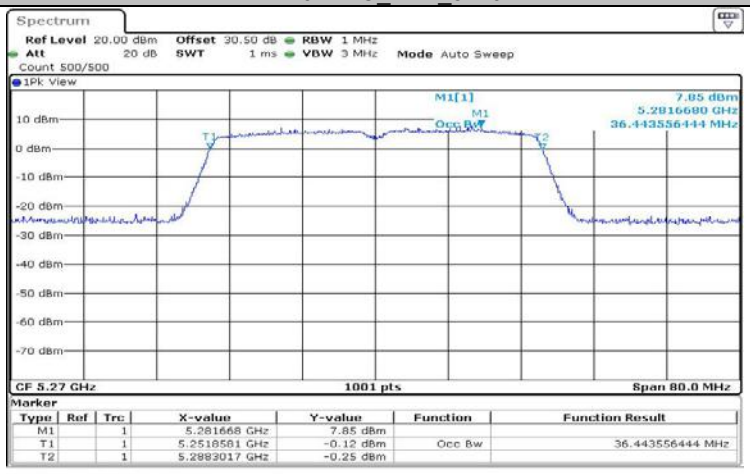

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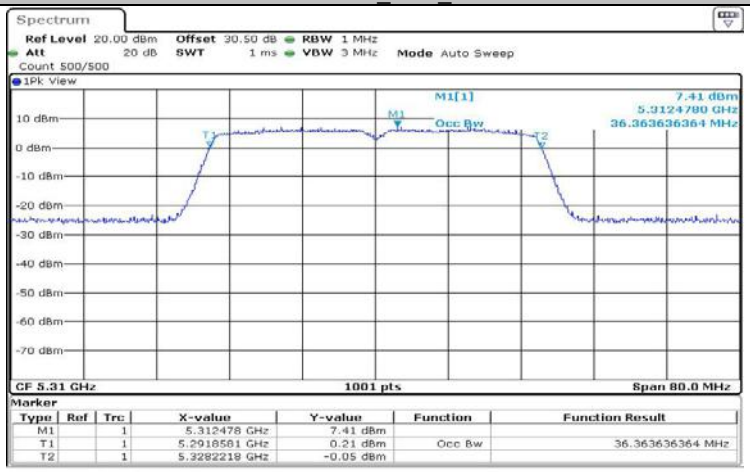

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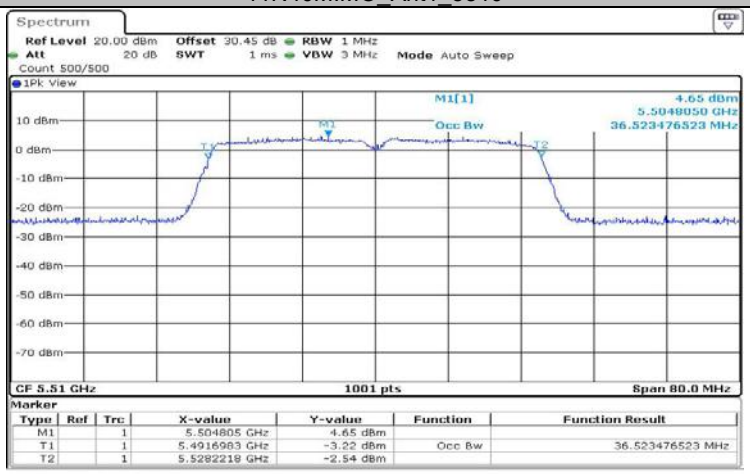
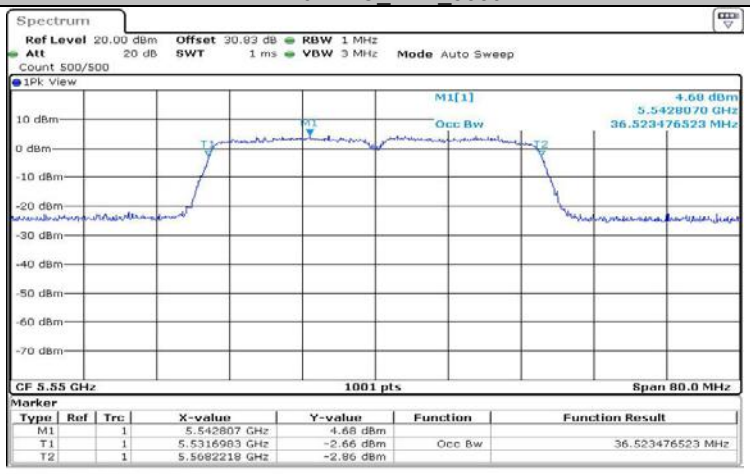
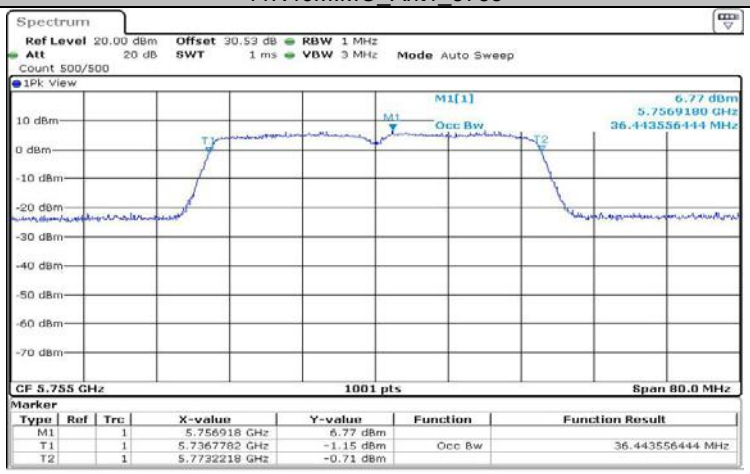


11N40MIMO_Ant1_5550



11N40MIMO_Ant1_5670

11N40MIMO_Ant1_5755



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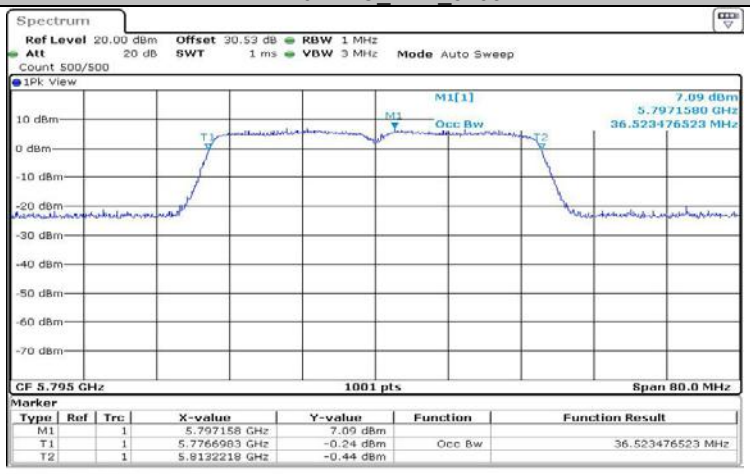

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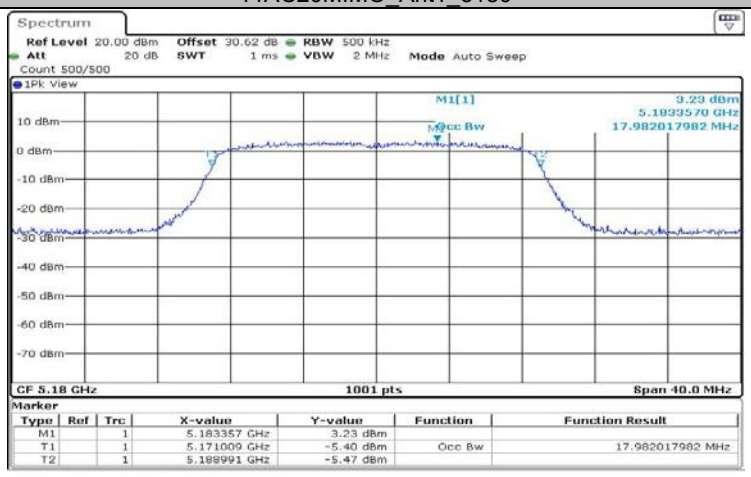

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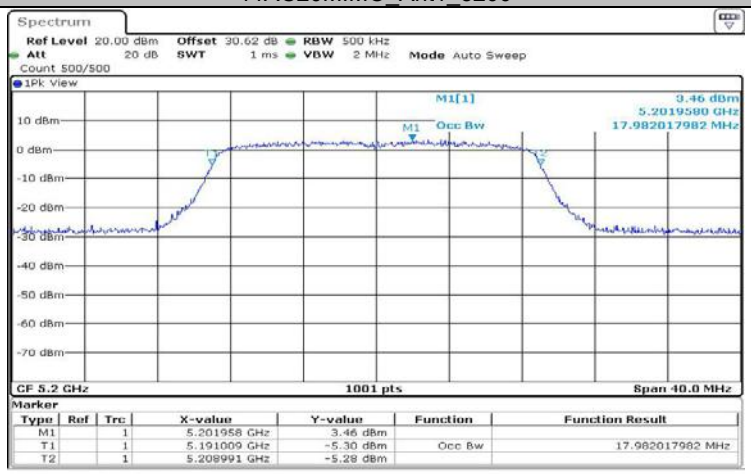

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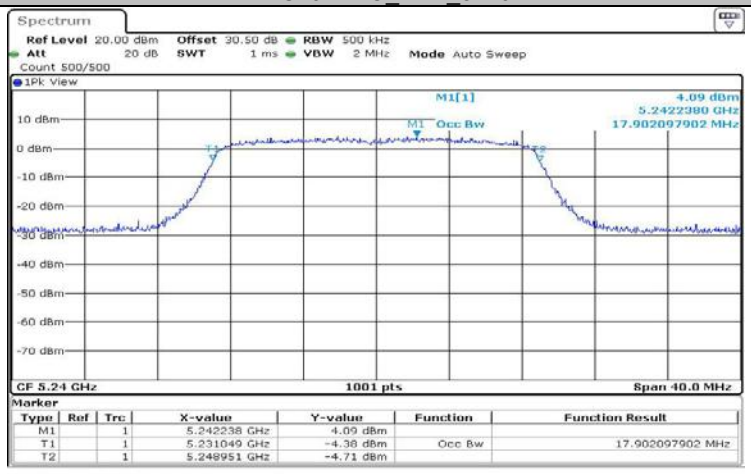
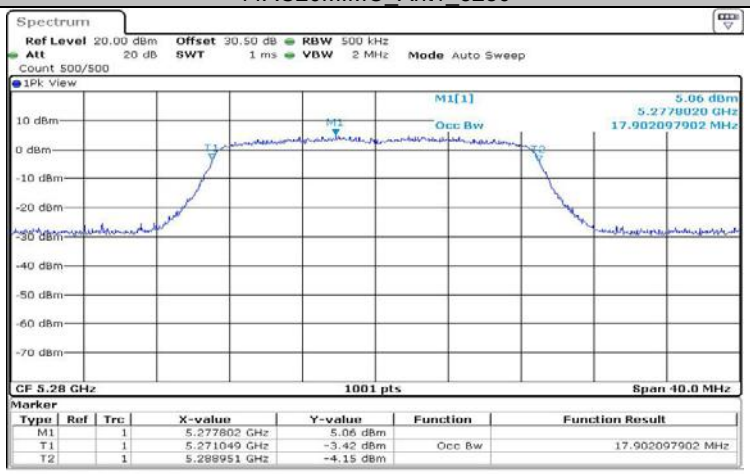


11AC20MIMO_Ant1_5260

11AC20MIMO_Ant1_5280



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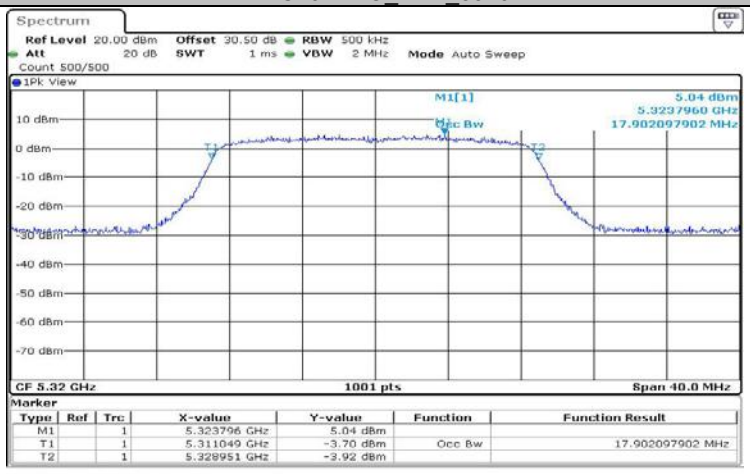

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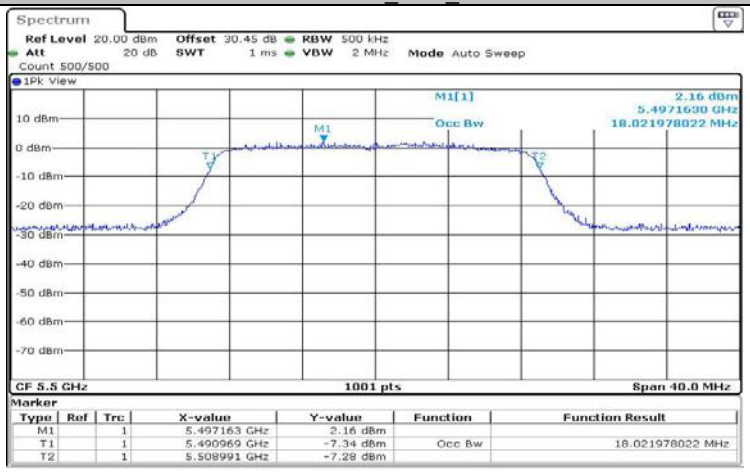

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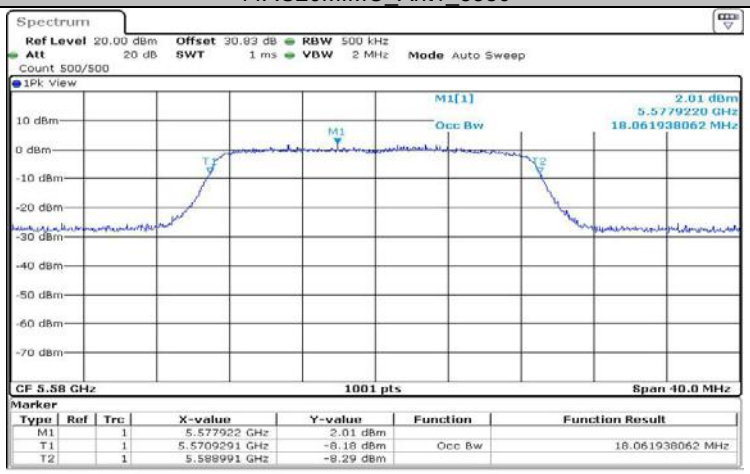

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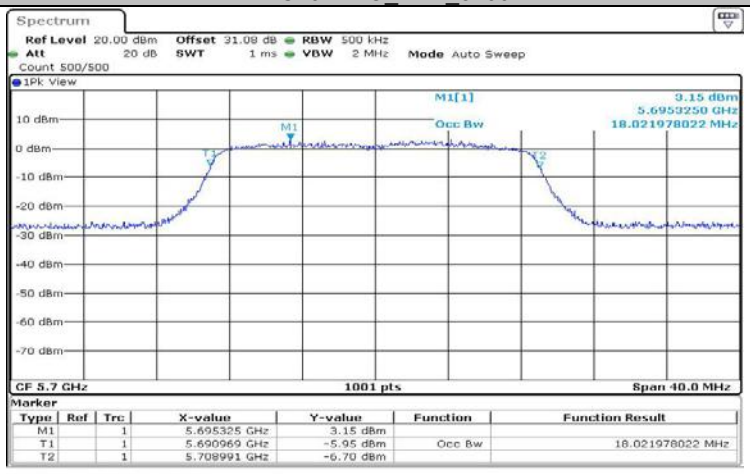

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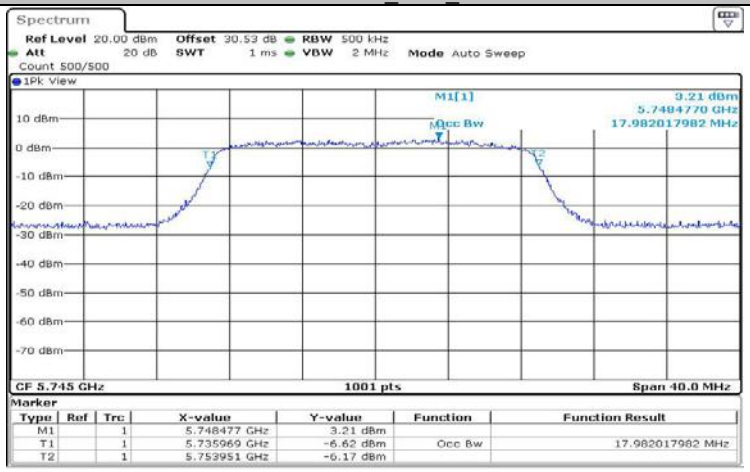

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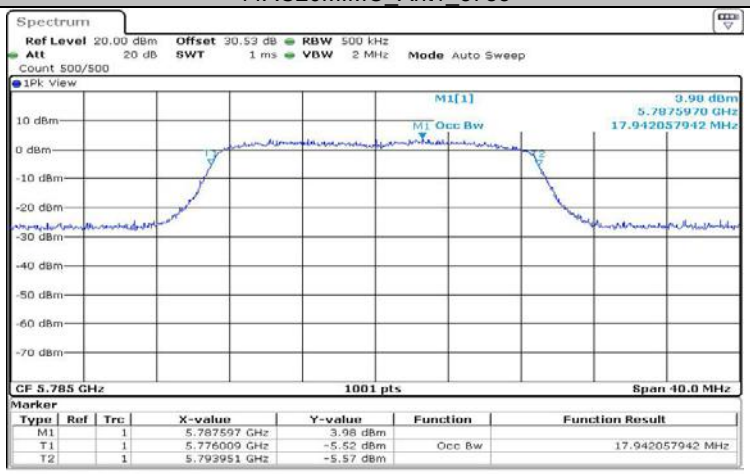

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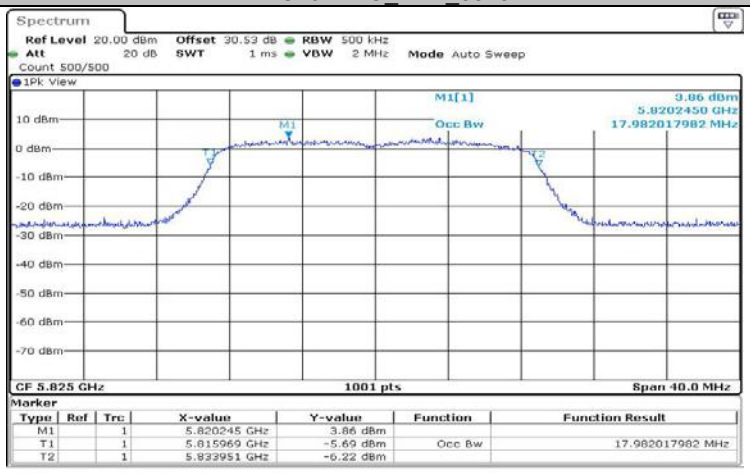
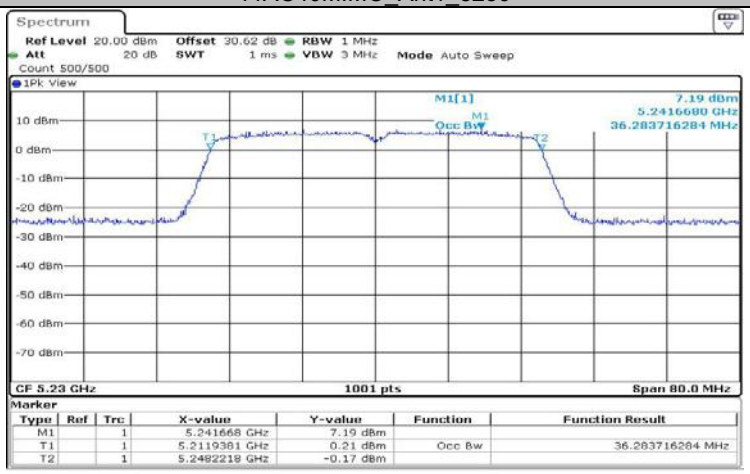


11AC40MIMO_Ant1_5190

11AC40MIMO_Ant1_5230



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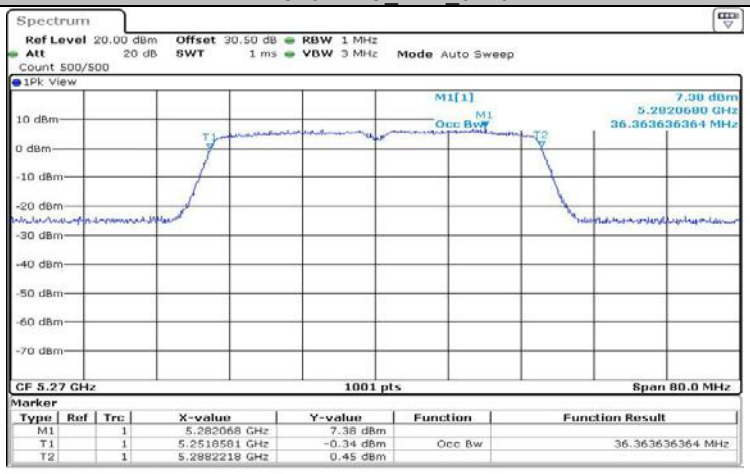

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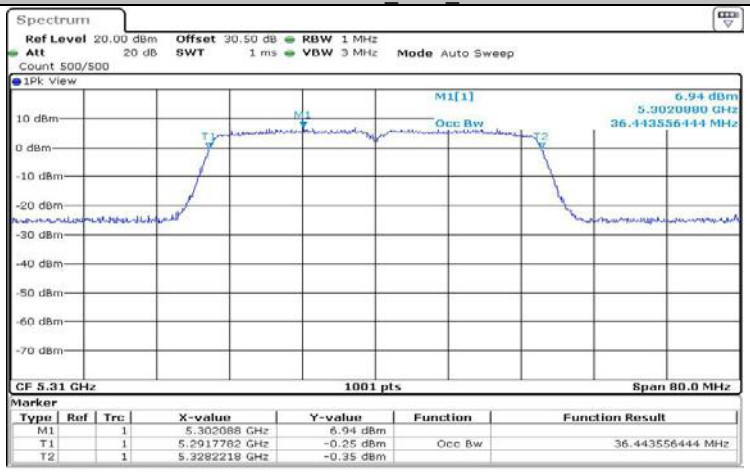

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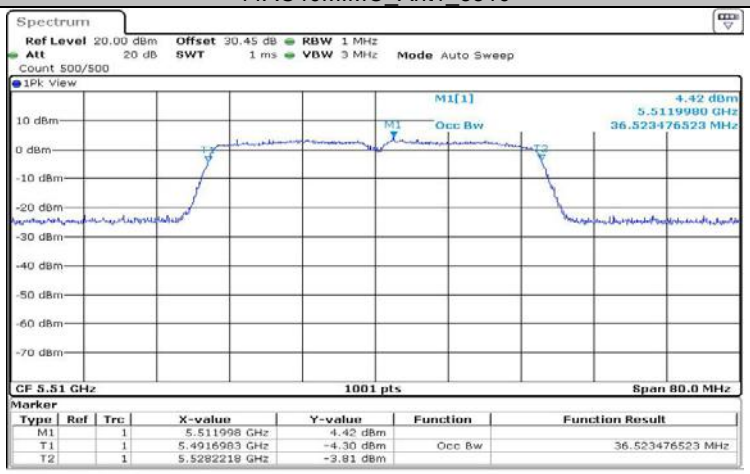

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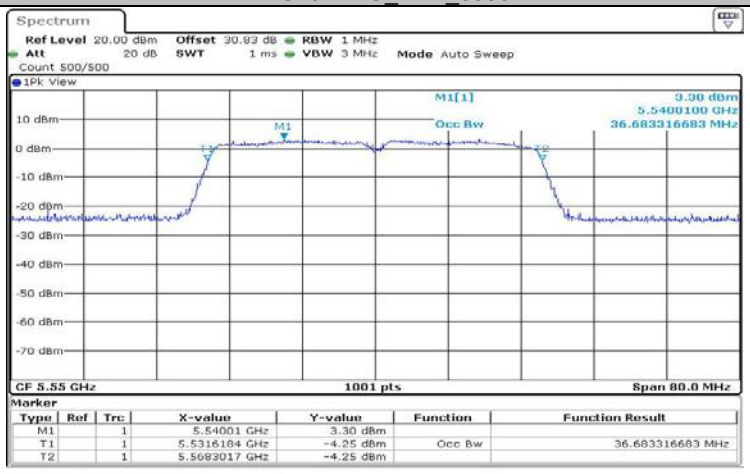

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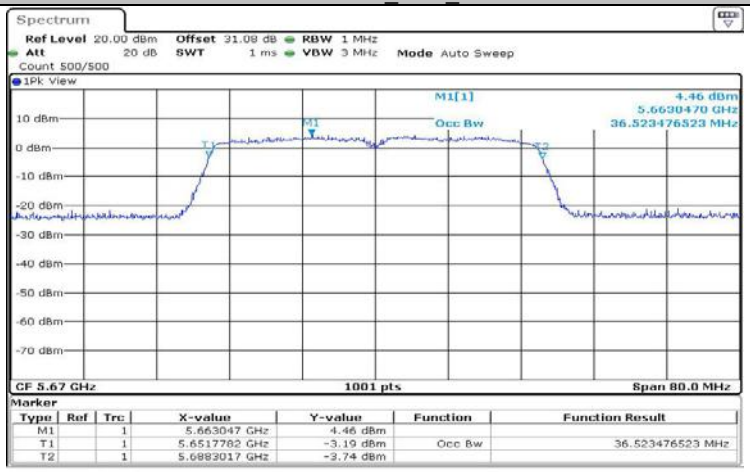

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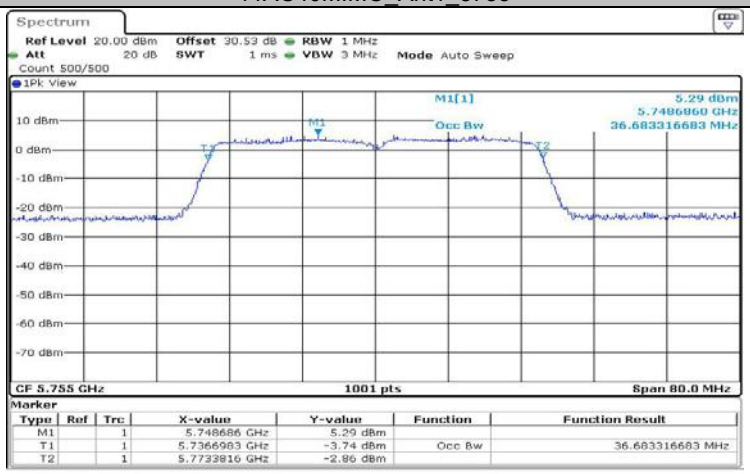

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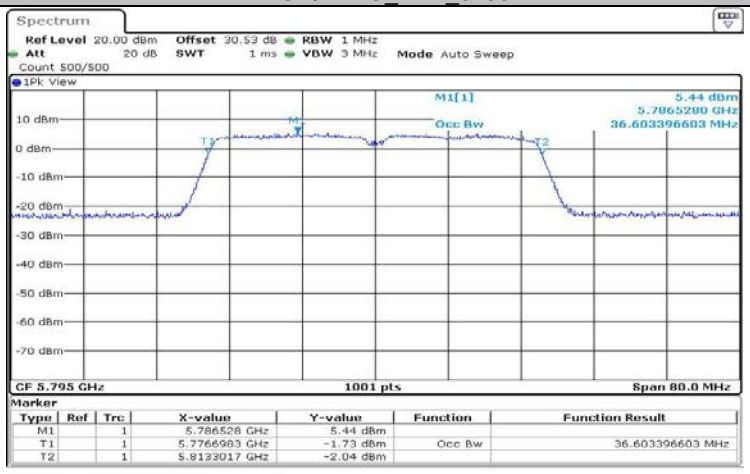

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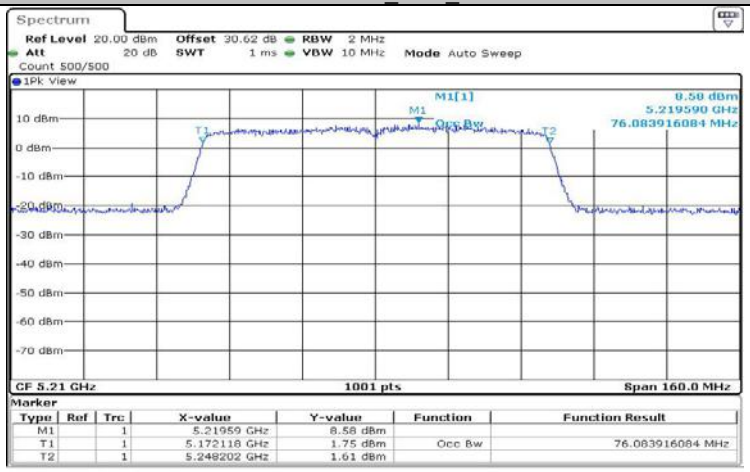

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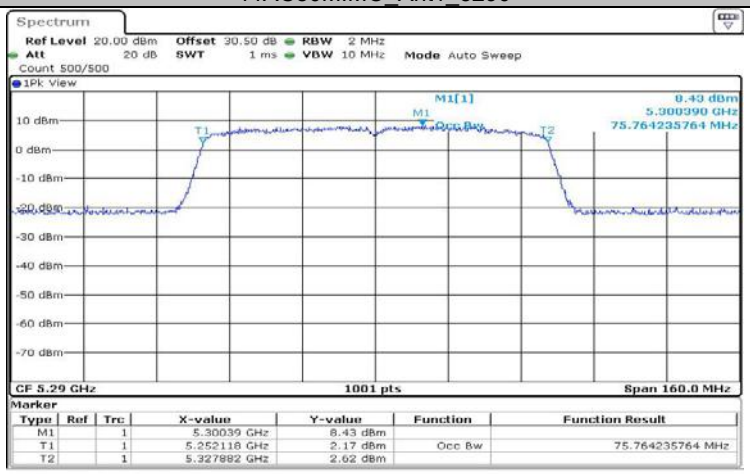
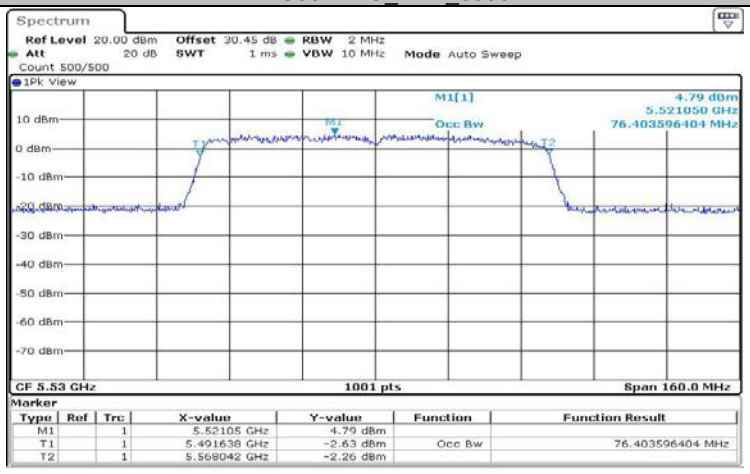
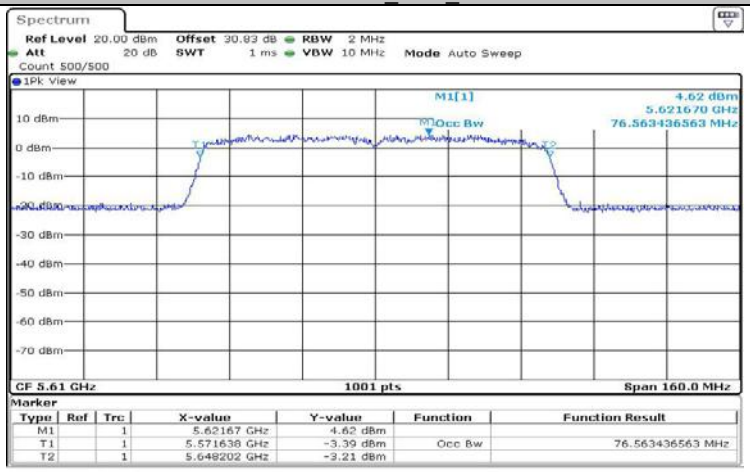


11AC80MIMO_Ant1_5530



11AC80MIMO_Ant1_5610



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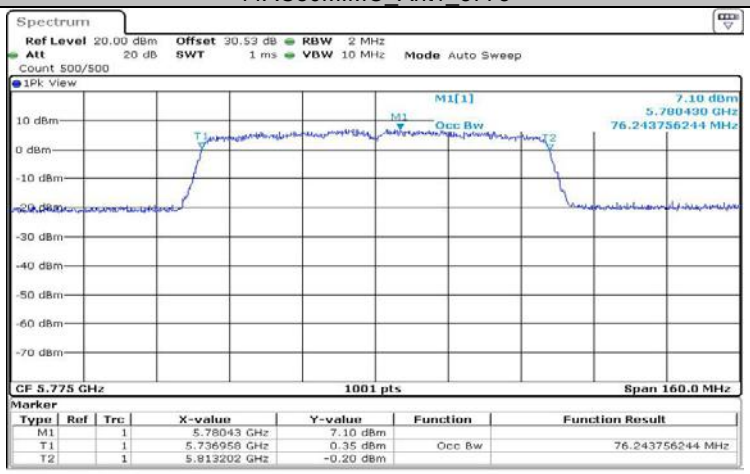

11AC160MIMO_Ant1_5250