

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBARR-WTW-P22120081B-4

FCC ID: RAS-MT7922A22M

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Model No.: MT7922A22M

Received Date: 2023/3/27

Test Date: 2023/4/11 ~ 2023/5/4

Issued Date: 2023/5/17

Applicant: MediaTek Inc.

Address: No. 1, Dusing 1st Rd., Hsinchu Science Park Hsinchu City 30078, Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

Lab Address: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  , Date: 2023/5/17

May Chen / Manager

This test report consists of 306 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The test results in the report only apply to the tested sample. The test results in this report are traceable to the national or international standards.



Prepared by : Vito Lung / Specialist

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

Table of Contents

Release Control Record	4
1 Certificate.....	5
2 Summary of Test Results	6
2.1 Measurement Uncertainty	6
2.2 Supplementary Information	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Antenna Description of EUT	8
3.3 Channel List.....	11
3.4 Test Mode Applicability and Tested Channel Detail.....	13
3.5 Duty Cycle of Test Signal.....	16
3.6 Test Program Used and Operation Descriptions	18
3.7 Connection Diagram of EUT and Peripheral Devices	18
3.8 Configuration of Peripheral Devices and Cable Connections	19
4 Test Instruments	20
4.1 RF Output Power.....	20
4.2 Power Spectral Density	20
4.3 Emission Bandwidth	20
4.4 In-Band Emission Mask.....	20
4.5 Occupied Bandwidth.....	20
4.6 Frequency Stability	21
4.7 Contention-based Protocol.....	21
4.8 AC Power Conducted Emissions	22
4.9 Unwanted Emissions below 1 GHz	22
4.10 Unwanted Emissions above 1 GHz.....	23
5 Limits of Test Items.....	24
5.1 RF Output Power.....	24
5.2 Power Spectral Density	24
5.3 Emission Bandwidth	24
5.4 In-Band Emission Mask.....	24
5.5 Occupied Bandwidth.....	24
5.6 Frequency Stability	24
5.7 Contention-based Protocol.....	25
5.8 AC Power Conducted Emissions	25
5.9 Unwanted Emissions below 1 GHz	26
5.10 Unwanted Emissions above 1 GHz.....	26
6 Test Arrangements.....	27
6.1 RF Output Power.....	27
6.1.1 Test Setup	27
6.1.2 Test Procedure.....	27
6.2 Power Spectral Density	27
6.2.1 Test Setup	27
6.2.2 Test Procedure.....	27
6.3 Emission Bandwidth	28
6.3.1 Test Setup	28
6.3.2 Test Procedure.....	28
6.4 In-Band Emission Mask.....	28
6.4.1 Test Setup	28
6.4.2 Test Procedure.....	28
6.5 Occupied Bandwidth.....	29
6.5.1 Test Setup	29
6.5.2 Test Procedure.....	29
6.6 Frequency Stability	29
6.6.1 Test Setup	29

6.6.2	Test Procedure	29
6.7	Contention-based Protocol	30
6.7.1	Test Setup	30
6.7.2	Test Procedure	30
6.8	AC Power Conducted Emissions	31
6.8.1	Test Setup	31
6.8.2	Test Procedure	31
6.9	Unwanted Emissions below 1 GHz	32
6.9.1	Test Setup	32
6.9.2	Test Procedure	33
6.10	Unwanted Emissions above 1 GHz	34
6.10.1	Test Setup	34
6.10.2	Test Procedure	34
7	Test Results of Test Item	35
7.1	RF Output Power	35
7.2	Power Spectral Density	39
7.3	Emission Bandwidth	46
7.4	In-Band Emission Mask	51
7.5	Occupied Bandwidth	67
7.6	Frequency Stability	72
7.7	Contention-based Protocol	73
7.8	AC Power Conducted Emissions	78
7.9	Unwanted Emissions below 1 GHz	80
7.10	Unwanted Emissions above 1 GHz	84
8	Operational Restrictions for 6 GHz U-NII Devices	304
9	Pictures of Test Arrangements	305
10	Information of the Testing Laboratories	306

Release Control Record

Issue No.	Description	Date Issued
RFBARR-WTW-P22120081B-4	Original release.	2023/5/17

1 Certificate

Product: 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7922A22M

Sample Status: Engineering sample

Applicant: MediaTek Inc.

Test Date: 2023/4/11 ~ 2023/5/4

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement ANSI C63.10-2013

procedure: KDB 987594 D02 U-NII 6 GHz EMC Measurement v01v01

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(7)(8)	RF Output Power	Pass	Meet the requirement of limit.
15.407(a)(7)(8)	Power Spectral Density	Pass	Meet the requirement of limit.
15.407(a)(10)	Occupied Bandwidth	-	Reference only.
15.407(b)(9)	AC Power Conducted Emissions	Pass	Minimum passing margin is -16.33 dB at 0.46150 MHz
15.407(b)(9)	Unwanted Emissions below 1 GHz	Pass	Minimum passing margin is -3.5 dB at 197.89, 697.90 MHz
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	Pass	Minimum passing margin is -0.1 dB at 20085.00, 5912.00, 5925.00 MHz
15.407(b)(7)	In-Band Emission Mask	Pass	Meet the requirement of limit.
15.407(d)(6)	Contention-based Protocol	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(d)	Operational restrictions for 6 GHz U-NII devices	Pass	Declaration by applicant
15.203	Antenna Requirement	Pass	Antenna connector is IPEX-4L & ipex(MHF) & R-SMA not a standard connector.
---	Emission Bandwidth	Pass	Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Specification	Expanded Uncertainty (k=2) (±)
AC Power Conducted Emissions	150 kHz ~ 30 MHz	1.9 dB
Unwanted Emissions below 1 GHz	9 kHz ~ 30 MHz	3.1 dB
	30 MHz ~ 1 GHz	5.5 dB
Unwanted Emissions above 1 GHz	1 GHz ~ 18 GHz	5.1 dB
	18 GHz ~ 40 GHz	5.3 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7922A22M
Status of EUT	Engineering sample
Power Supply Rating	3.3 Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54 Mbps 802.11ax: up to 2401.9 Mbps
Operating Frequency	5.955 GHz ~ 6.415 GHz 6.535 GHz ~ 6.855 GHz
Number of Channel	802.11a/ax (HE20): 41 802.11ax (HE40): 20 802.11ax (HE80): 9 802.11ax (HE160): 4
Resource Unit (RU)	Single RU: 26-tone, 52-tone, 106-tone, 242-tone, 484-tone, 996-tone, 2 * 996-tone
Output Power	5.955 GHz ~ 6.415 GHz : EIRP: 965.083 mW (29.85 dBm) 6.535 GHz ~ 6.855 GHz : EIRP: 959.489 mW (29.82 dBm)
EUT Category	Client Device (controlled of an standard power AP)

Note:

1. This is a supplementary report. The difference compared with the original design is as the following:
 - ◆ Add dual client (6CD).
2. The equipment support 2 types of M.2 from factor A-E Key and E Key.
3. According to above conditions, all test items need to be performed. And all data are verified to meet the requirement.
4. Indoor client (6XD) test report refer to Report No: RFBARR-WTW-P21030485A-6 & RFBARR-WTW- P21030485L-6 (Add a mode 1TX). & RFBARR-WTW- P21030485P (Add 11ax160 1TX). And Contention-based Protocol test report refer to Report No: RFBARR-WTW-P21030485D-2
5. There are Bluetooth and WLAN (2.4GHz & 5GHz & 5.9GHz & 6GHz) technology used for the EUT.
6. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (5GHz)	Bluetooth
2	WLAN (6GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

7. The EUT support OFDMA and Partial RU mode, therefore partial RU combination were investigated and the worst case scenario was identified.
8. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Antenna NO.	RF Chain NO.	Brand	Model	Antenna Net Gain(dBi)	Frequency range	Antenna Type	Connector Type	*Cable Length (MM)
1	Chain0	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835GHz	PIFA	ipex(MHF)	200
				4.92	5.15~5.895GHz			
	Chain1	PSA	RFMTA340718EMLB302	3.18	2.4~2.4835GHz			
				4.92	5.15~5.895GHz			
2	Chain0	PSA	RFMTA311020EMMB301	1.71	2.4~2.4835GHz	PIFA	ipex(MHF)	200
				4.82	5.15~5.895GHz			
				4.76	5.925~6.425GHz			
				4.29	6.425~6.525GHz			
				4.61	6.525~6.875GHz			
				4.09	6.875~7.125GHz			
	Chain1	PSA	RFMTA311020EMMB301	1.71	2.4~2.4835GHz			
				4.82	5.15~5.895GHz			
				4.76	5.925~6.425GHz			
				4.29	6.425~6.525GHz			
				4.61	6.525~6.875GHz			
				4.09	6.875~7.125GHz			
3	Chain0	Cortec	AN2450-4902BRS	2.42	2.4~2.4835GHz	Dipole	R-SMA	150
				3.87	5.15~5.895GHz			
	Chain1	Cortec	AN2450-4902BRS	2.42	2.4~2.4835GHz			
				3.87	5.15~5.895GHz			
4	Chain0	VSO	JR2Q00340-1	1.62	2.4~2.4835GHz	Dipole	RP SMA PLUG	40
				3.2	5.15~5.895GHz			
				3.93	5.925~6.425 GHz			
				3.61	6.425~6.525 GHz			
				3.61	6.525~6.875 GHz			
				3.14	6.875~7.125 GHz			
	Chain1	VSO	JR2Q00340-1	1.62	2.4~2.4835GHz			
				3.2	5.15~5.895GHz			
				3.93	5.925~6.425 GHz			
				3.61	6.425~6.525 GHz			
				3.61	6.525~6.875 GHz			
				3.14	6.875~7.125 GHz			

5	Chain0	MSI	WA-P-LE-02-045 (Main)	2.24	2.4~2.4835GHz	PIFA	IPEX-4L	190
				2.68	5.15~5.895GHz			
				3.01	5.925~6.425 GHz			
				-1.23	6.425~6.525 GHz			
				-1.96	6.525~6.875 GHz			
				-3.68	6.875~7.125 GHz			
	Chain1	MSI	WA-P-LE-02-046 (Aux)	-2.96	2.4~2.4835GHz			325
				1.16	5.15~5.895GHz			
				0.99	5.925~6.425 GHz			
				-2.31	6.425~6.525 GHz			
				-2.54	6.525~6.875 GHz			
				-7.44	6.875~7.125 GHz			
6	Chain0	PSA	RFPCA460632IMMB701	-13.2	5.925~6.425 GHz	Dipole	IPEX	320
				-13.67	6.425~6.525 GHz			
				-13.67	6.525~6.875 GHz			
				-13.09	6.875~7.125 GHz			
	Chain1	PSA	RFPCA460632IMMB701	-13.2	5.925~6.425 GHz			
				-13.67	6.425~6.525 GHz			
				-13.67	6.525~6.875 GHz			
				-13.09	6.875~7.125 GHz			
7	Chain0	PSA	RFMTA421230IMMB701	-13.92	5.925~6.425 GHz	PIFA	IPEX	300
				-13.91	6.425~6.525 GHz			
				-13.91	6.525~6.875 GHz			
				-14.46	6.875~7.125 GHz			
	Chain1	PSA	RFMTA421230IMMB701	-13.92	5.925~6.425 GHz			
				-13.91	6.425~6.525 GHz			
				-13.91	6.525~6.875 GHz			
				-14.46	6.875~7.125 GHz			

Note: For above antennas, max. gain was selected for the final test.

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates function:

6GHz Band				
MODULATION MODE	Tx configuration		CDD mode	Beamforming mode
802.11a	SISO	1TX	Not Support	Not Support
802.11ax (HE160)		1TX	Not Support	Not Support
802.11a	MIMO	2TX	Support	Not Support
802.11ax (HE20)		2TX	Support	Not Support
802.11ax (HE40)		2TX	Support	Not Support
802.11ax (HE80)		2TX	Support	Not Support
802.11ax (HE160)		2TX	Support	Not Support
802.11ax (RU26/52/106/242/484/996/1992)		2TX	Support	Not Support

3.3 Channel List

U-NII-5

24 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	5955 MHz	5	5975 MHz	9	5955 MHz	13	6015 MHz
17	6035 MHz	21	6055 MHz	25	6075 MHz	29	6095 MHz
33	6115 MHz	37	6135 MHz	41	6155 MHz	45	6175 MHz
49	6195 MHz	53	6215 MHz	57	6235 MHz	61	6255 MHz
65	6275 MHz	69	6295 MHz	73	6315 MHz	77	6335 MHz
81	6355 MHz	85	6375 MHz	89	6395 MHz	93	6415 MHz

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285 MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

U-NII-7

17 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz						

8 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz

3 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency
135	6625 MHz	151	6705 MHz	167	6785 MHz

1 channels are provided for 802.11ax (HE160):

Channel	Frequency
143	6665 MHz

3.4 Test Mode Applicability and Tested Channel Detail

Worst Case:	The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane. Dipole ANT was used typical placement for the test.
-------------	--

Following channel(s) was (were) selected for the final test as listed below:

Test Item	EUT Configure Mode	Mode	Signal Mode	Tested Channel	Modulation	Data Rate Parameter	RU/MRU Index
RF Output Power / Power Spectral Density	A	802.11a	1TX/2TX	1, 45, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11ax (HE160)	1T1S	15, 47, 79, 143	BPSK	MCS0	NA
		802.11ax (HE20)	2T1S	1, 45, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11ax (HE40)		3, 43, 91, 123, 155, 179	BPSK	MCS0	NA
		802.11ax (HE80)		7, 39, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11ax (HE160)	2T1S	15, 47, 79, 143	BPSK	MCS0	NA
		20 MHz Preamble 802.11ax (RU26)	2T1S	1, 93, 117, 181	BPSK	MCS0	0, 8 0, 8 0, 8
		20 MHz Preamble 802.11ax (RU52)		1, 93, 117, 181	BPSK	MCS0	37, 40 37, 40 37, 40
		20 MHz Preamble 802.11ax (RU106)		1, 93, 117, 181	BPSK	MCS0	53, 54 53, 54 53, 54

Emission Bandwidth/ In-Band Emission Mask/ Occupied Bandwidth	A	802.11a	1TX/2TX	1, 45, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11ax (HE160)	1T1S	15, 47, 79, 143	BPSK	MCS0	NA
		802.11ax (HE20)	2T1S	1, 45, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11ax (HE40)		3, 43, 91, 123, 155, 179	BPSK	MCS0	NA
		802.11ax (HE80)		7, 39, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11ax (HE160)	2T1S	15, 47, 79, 143	BPSK	MCS0	NA
		20 MHz Preamble 802.11ax (RU26)	2T1S	1, 93, 117, 181	BPSK	MCS0	0, 8 0, 8 0, 8
		20 MHz Preamble 802.11ax (RU52)		1, 93, 117, 181	BPSK	MCS0	37, 40 37, 40 37, 40
		20 MHz Preamble 802.11ax (RU106)		1, 93, 117, 181	BPSK	MCS0	53, 54 53, 54 53, 54

Frequency Stability	A	802.11a	1TX	1	un-modulation	-	NA
Contention-based Protocol	C	802.11ax (HE20)	-	1, 129	BPSK	6Mb/s	NA
		802.11ax (HE160)	-	15, 143	BPSK	MCS0	NA
AC Power Conducted Emissions	A	802.11ax (HE160)	2T1S	47	BPSK	MCS0	NA
Unwanted Emissions below 1 GHz	A,B	802.11ax (HE160)	2T1S	47	BPSK	MCS0	NA
Unwanted Emissions above 1 GHz	A,B	802.11a	1TX/2TX	1, 45, 93, 117, 149, 181	BPSK	6Mb/s	NA
		802.11ax (HE20)	2T1S	1, 45, 93, 117, 149, 181	BPSK	MCS0	NA
		802.11ax (HE40)	2T1S	3, 43, 91, 123, 155, 179	BPSK	MCS0	NA
		802.11ax (HE80)	2T1S	7, 39, 87, 135, 151, 167	BPSK	MCS0	NA
		802.11ax (HE160)	1T1S / 2T1S	15, 47, 79, 143	BPSK	MCS0	NA
		20 MHz Preamble 802.11ax (RU26)	2T1S	1, 93, 117, 181	BPSK	MCS0	0, 8 0, 8 0, 8
		20 MHz Preamble 802.11ax (RU52)	2T1S	1, 93, 117, 181	BPSK	MCS0	37, 40 37, 40 37, 40
		20 MHz Preamble 802.11ax (RU106)	2T1S	1, 93, 117, 181	BPSK	MCS0	53, 54 53, 54 53, 54
EUT Configure Mode:	A	with PIFA antenna					
	B	with Dipole antenna					
	C	with min. gain antenna					

3.5 Duty Cycle of Test Signal

802.11a Duty cycle = 5.481 ms / 5.823 ms x 100% = 94.1%, duty factor = 10 * log (1/Duty cycle) = 0.26 dB

802.11ax (HE20) Duty cycle = 3.784 ms / 4.252 ms x 100% = 89.0%, duty factor = 10 * log (1/Duty cycle) = 0.51 dB

802.11ax (HE40) Duty cycle = 3.786 ms / 4.259 ms x 100% = 88.9%, duty factor = 10 * log (1/Duty cycle) = 0.51 dB

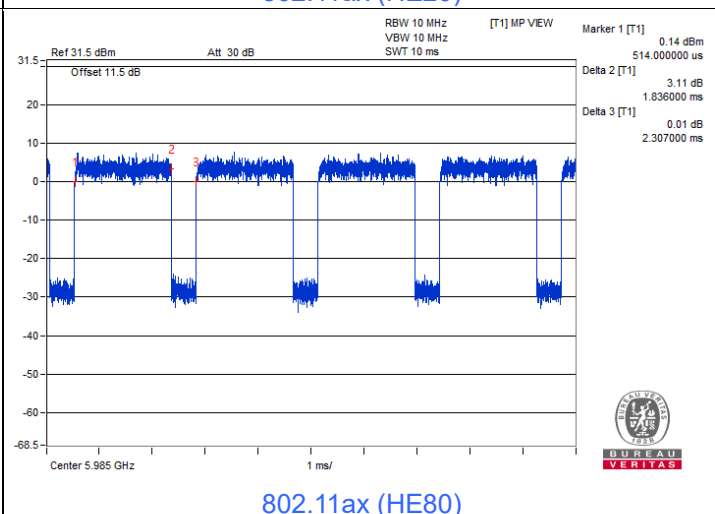
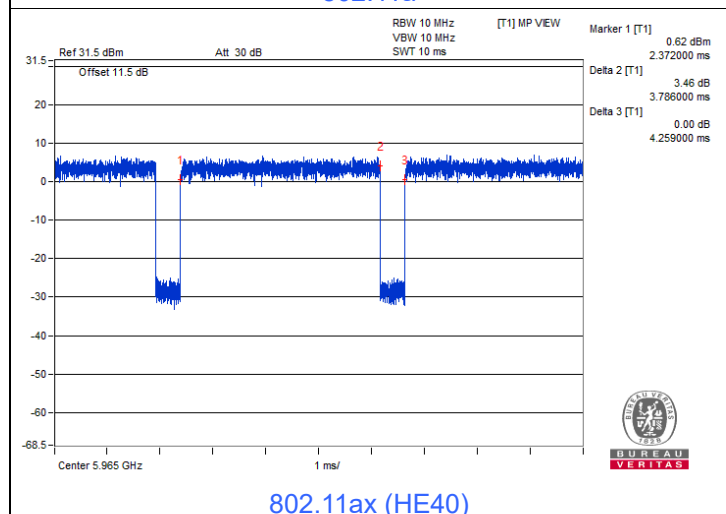
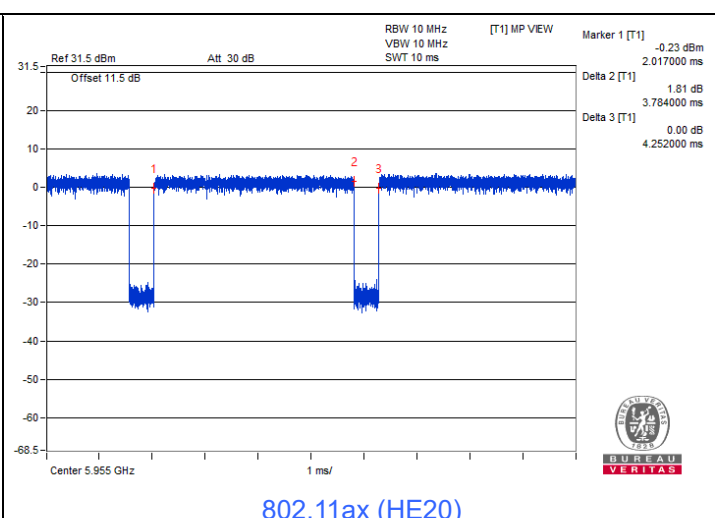
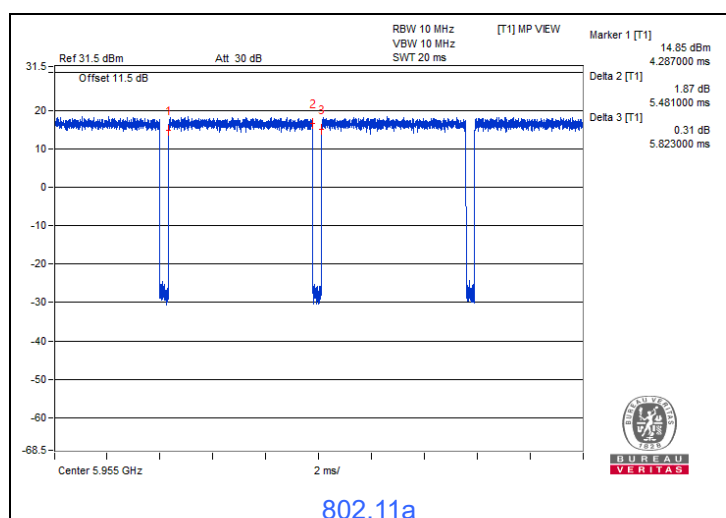
802.11ax (HE80) Duty cycle = 1.836 ms / 2.307 ms x 100% = 79.6%, duty factor = 10 * log (1/Duty cycle) = 0.99 dB

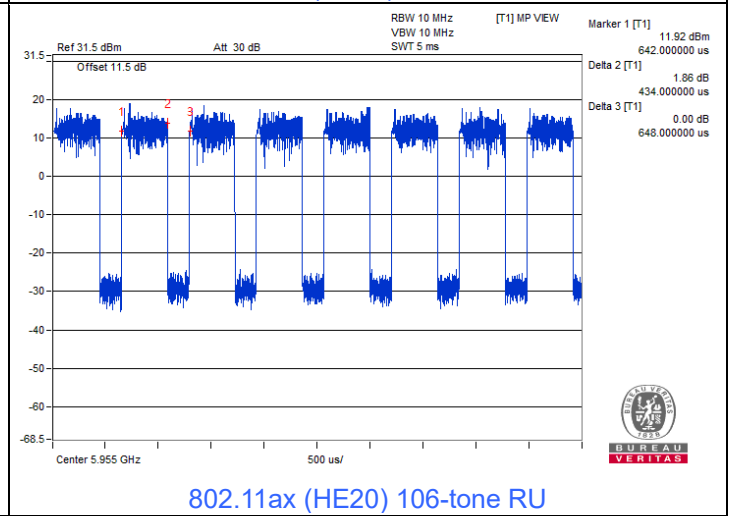
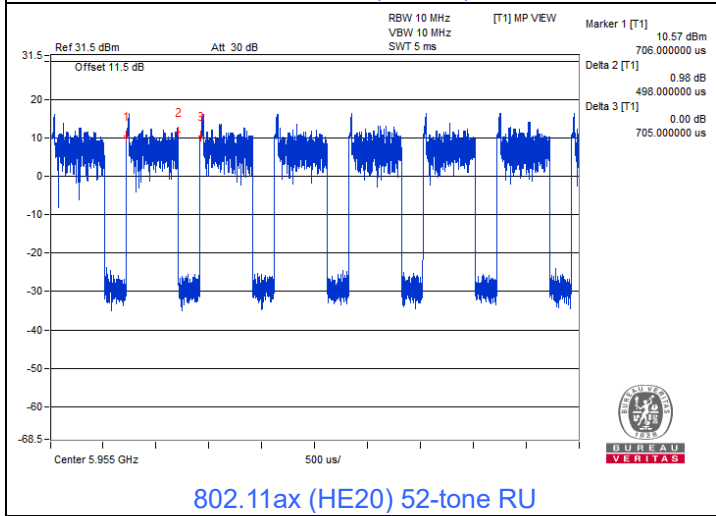
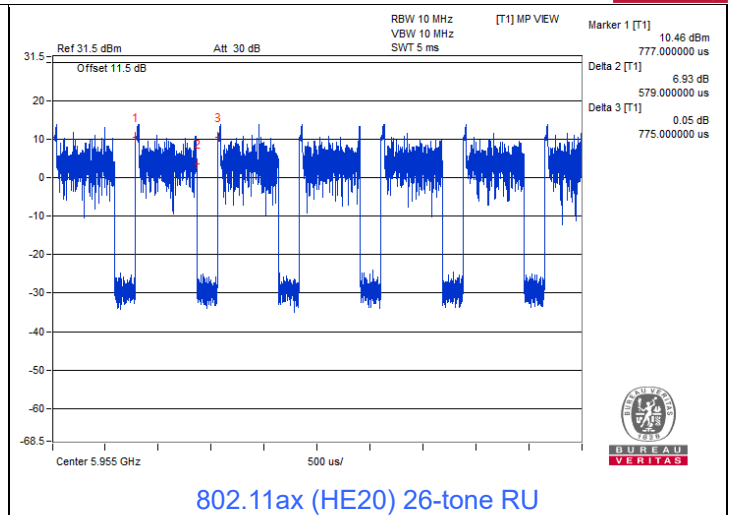
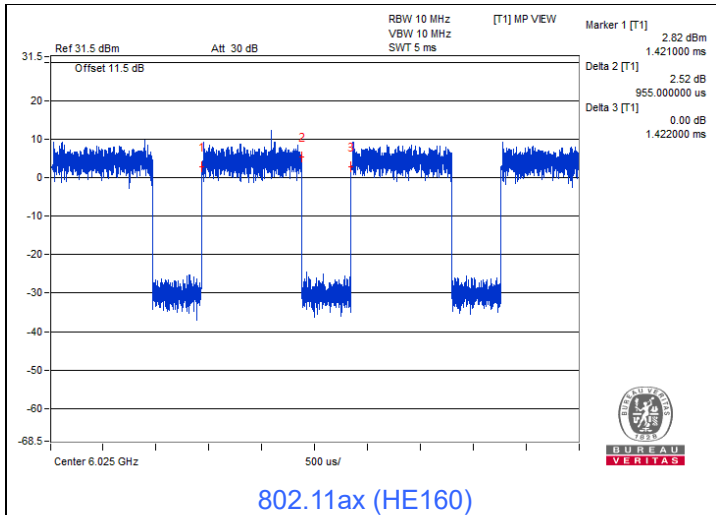
802.11ax (HE160) Duty cycle = 0.955 ms / 1.422 ms x 100% = 67.2%, duty factor = 10 * log (1/Duty cycle) = 1.73 dB

802.11ax (HE20) 26-tone RU Duty cycle = 0.579 ms / 0.775 ms x 100% = 74.7%, duty factor = 10 * log (1/Duty cycle) = 1.27 dB

802.11ax (HE20) 52-tone RU Duty cycle = 0.498 ms / 0.705 ms x 100% = 70.6%, duty factor = 10 * log (1/Duty cycle) = 1.51 dB

802.11ax (HE20) 106-tone RU Duty cycle = 0.434 ms / 0.648 ms x 100% = 67.0%, duty factor = 10 * log (1/Duty cycle) = 1.74 dB



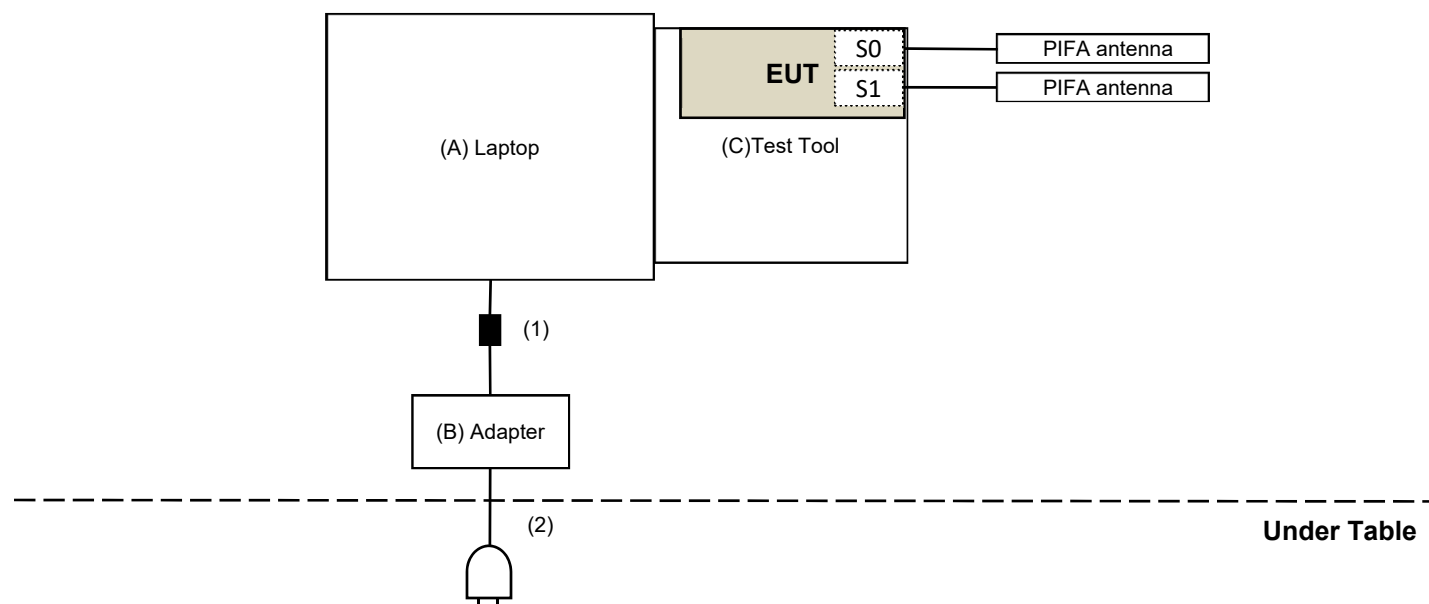


3.6 Test Program Used and Operation Descriptions

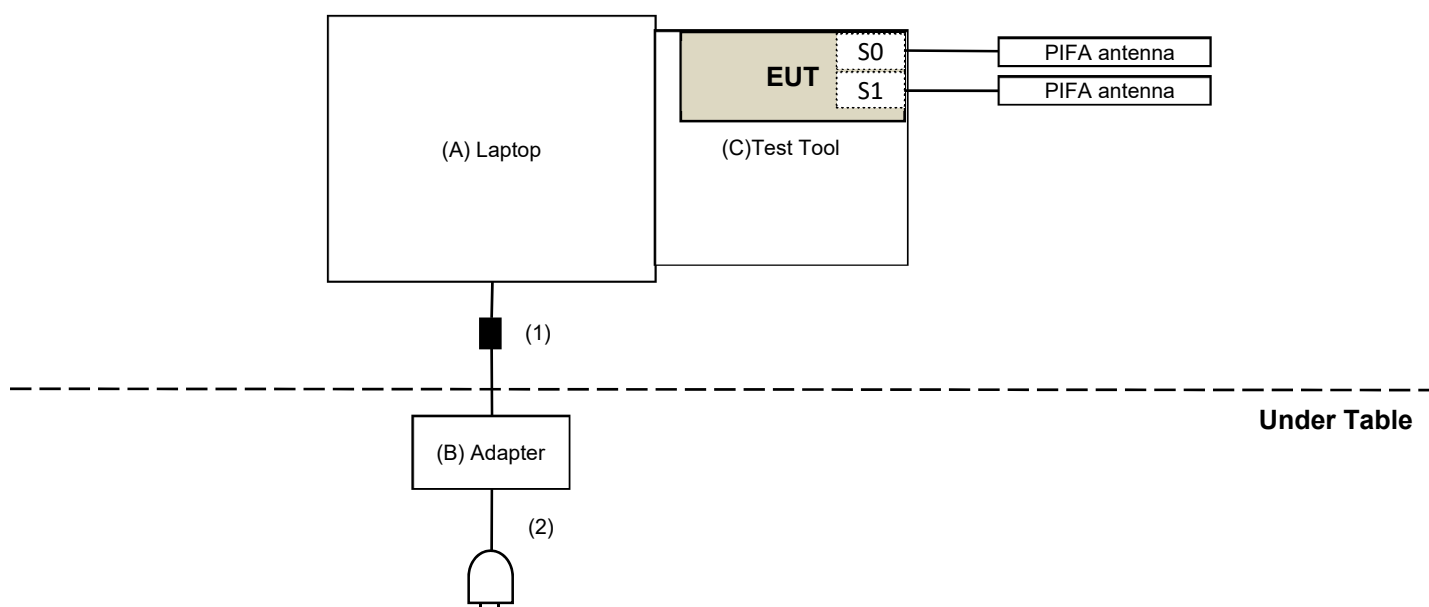
Controlling software (QA 0.0.2.66) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For AC Power Conducted Emission test

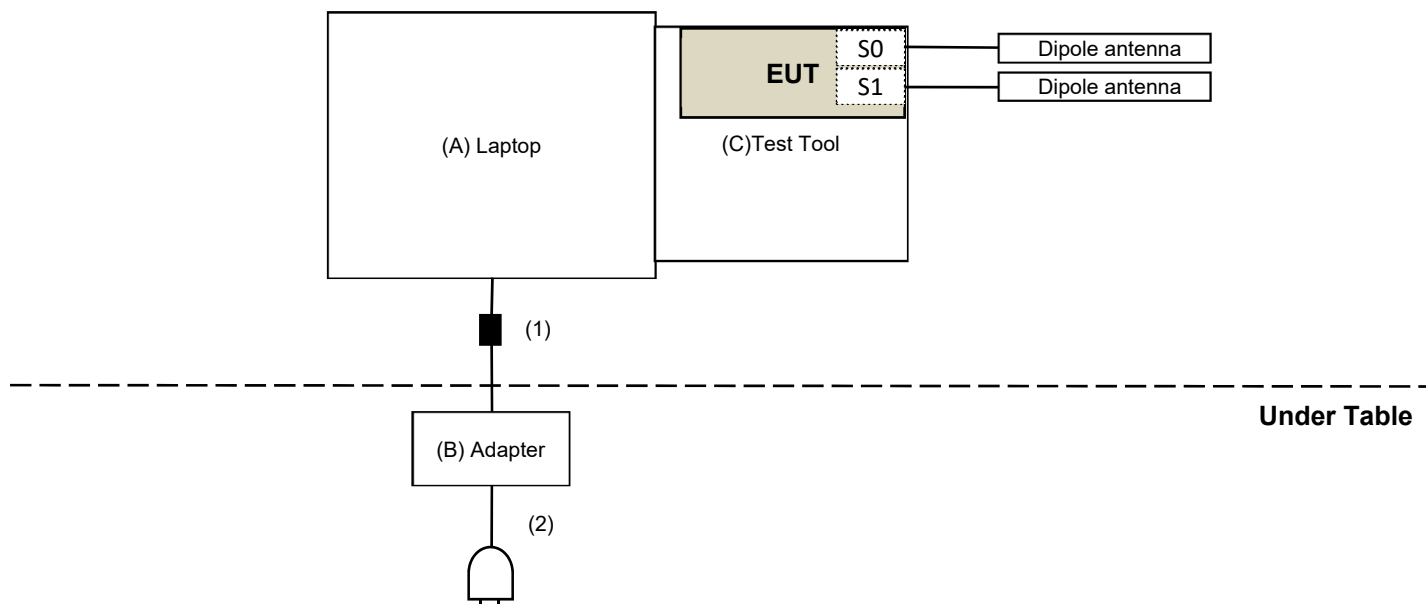


For Unwanted Emission test PIFA



For Unwanted Emission test

Dipole



3.8 Configuration of Peripheral Devices and Cable Connections

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Laptop	DELL	E5430	HYV4VY1	DoC	Provided by Lab
B	Test Tool	Mediatek	MTK1849	N/A	N/A	Supplied by applicant
C	Adapter	Dell	LA65NS2-01	N/A	N/A	Provided by Lab

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1	DC Cable	1	1.8	No	1	Provided by Lab
2	AC Cable	1	1.8	No	0	Provided by Lab

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 RF Output Power

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
Power Meter Anritsu	ML2495A	1529002	2022/6/22	2023/6/21
Pulse Power Sensor Anritsu	MA2411B	1726434	2022/6/22	2023/6/21

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/4/25 ~ 2023/5/4

4.2 Power Spectral Density

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/4/25 ~ 2023/5/4

4.3 Emission Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 In-Band Emission Mask

Refer to section 4.2 to get information of the instruments.

4.5 Occupied Bandwidth

Refer to section 4.2 to get information of the instruments.

4.6 Frequency Stability

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	2023/3/27	2024/3/26
DC POWER SUPPLY Topward	6603D	795558	N/A	N/A
Software	ADT_RF Test Software V6.6.5.4	N/A	N/A	N/A
Spectrum Analyzer Keysight	N9020B	MY60112409	2023/2/18	2024/2/17
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	2022/12/26	2023/12/25
True RMS Clamp Meter Fluke	325	31130711WS	2022/6/9	2023/6/8

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2023/4/25 ~ 2023/5/4

4.7 Contention-based Protocol

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Combiner Mini-Circuits	ZFRSC-123-S+	F698501347_01	2022/12/28	2023/12/27
Frequency Extender KEYSIGHT	N5182BX07	MY59360198	2022/10/14	2023/10/13
MXG X-Series RF Vector Signal Generator Keysight	N5182B	MY53052647	2022/11/8	2023/11/7
Spectrum Analyzer Keysight	N9030A	MY55410176	2022/6/21	2023/6/20
Spectrum Analyzer R&S	FSV40	101516	2023/2/10	2024/2/9

Notes:

1. The test was performed in Adaptivity room.
2. Tested Date: 2023/4/14

4.8 AC Power Conducted Emissions

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
50 ohm terminal resistance	N/A	EMC-01	2022/9/27	2023/9/26
Fixed attenuator STI	STI02-2200-10	005	2022/8/24	2023/8/23
LISN R&S	ESH3-Z5	848773/004	2022/10/18	2023/10/17
RF Coaxial Cable JYEBO	5D-FB	COCCAB-001	2022/8/24	2023/8/23
Software BVADT	BVADT_Conc_V7.3.7.4	N/A	N/A	N/A
TEST RECEIVER R&S	ESCS 30	847124/029	2022/10/14	2023/10/13

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2023/4/21

4.9 Unwanted Emissions below 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-ATT5-03	2022/12/28	2023/12/27
LOOP ANTENNA Electro-Metrics	EM-6879	264	2023/2/21	2024/2/20
MXE EMI Receiver(20 Hz to 44 GHz) Keysight	N9038A	MY54450088	2022/7/11	2023/7/10
Pre_Amplifier Agilent	8447D	2944A10636	2023/3/12	2024/3/11
Pre_Amplifier EMCI	EMC330N	980701	2023/2/18	2024/2/17
RF Coaxial Cable COMMATE/PEWC	8D	966-4-1	2023/2/18	2024/2/17
		966-4-2	2023/2/18	2024/2/17
		966-4-3	2023/2/18	2024/2/17
RF Coaxial Cable JYEBO	5D-FB	LOOPCAB-001	2022/12/19	2023/12/18
		LOOPCAB-002	2022/12/19	2023/12/18
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2023/4/6	2024/4/5
Trilog Broadband Antenna Schwarzbeck	VULB 9168	9168-406	2022/10/21	2023/10/20

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2023/4/21

4.10 Unwanted Emissions above 1 GHz

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Boresight Antenna Tower & Turn Table Max-Full	MF-7802BS	MF780208530	N/A	N/A
Horn Antenna Schwarzbeck	BBHA 9120D	9120D-783	2022/11/13	2023/11/12
	BBHA 9170	9170-739	2022/11/13	2023/11/12
Pre_Amplifier EMCI	EMC12630SE	980688	2022/10/4	2023/10/3
	EMC184045SE	980387	2022/12/28	2023/12/27
RF Cable-Frequency Range : 1- 26.5GHz EMCI	EMC104-SM-SM-1200	160922	2022/12/15	2023/12/14
RF Cable-Frequency range: 1- 40GHz EMCI	EMC102-KM-KM-1200	160924	2022/12/28	2023/12/27
RF Coaxial Cable EMCI	EMC-KM-KM-4000	200214	2023/2/20	2024/2/19
	EMC104-SM-SM-2000	180502	2023/3/27	2024/3/26
	EMC104-SM-SM-6000	210704	2022/11/4	2023/11/3
Software	ADT_Radiated_V8.7.08	N/A	N/A	N/A
Spectrum Analyzer KEYSIGHT	N9030B	MY57142938	2023/4/6	2024/4/5

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2023/4/11 ~ 2023/4/20

5 Limits of Test Items

5.1 RF Output Power

Operation Band	EUT Category	Limit
		Max Average Power
U-NII-5 U-NII-7	Client Devices (controlled of an standard power AP)	EIRP 30 dBm

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

5.2 Power Spectral Density

Operation Band	EUT Category	Limit
		Peak Power Density
U-NII-5 U-NII-7	Client Devices (controlled of an standard power AP)	EIRP 17 dBm/MHz

5.3 Emission Bandwidth

The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 MHz.

5.4 In-Band Emission Mask

Test Item	Frequencies (MHz)	(X) dBc* ¹
Emission Mask	At 1 MHz outside of channel edge	20
	At one channel bandwidth from the channel center* ²	28
	At one- and one-half times the channel bandwidth away from channel center* ³	40
	More than one- and one-half times the channel bandwidth	40

*¹ : The power spectral density must be suppressed by "x" dB

*² : At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

*³ : At frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

5.5 Occupied Bandwidth

The results are for reference only.

5.6 Frequency Stability

The frequency of the carrier signal shall be maintained within band of operation.

5.7 Contention-based Protocol

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

5.8 AC Power Conducted Emissions

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

5.9 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

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

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

5.10 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
Above 960	500	3

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

Frequencies (MHz)	EIRP Limit	Equivalent Field Strength at 3 m
5925 MHz > F > 7125 MHz	Peak: -7 (dBm/MHz)	88.2 (dBuV/m)
	Average: -27 (dBm/MHz)	68.2 (dBuV/m)

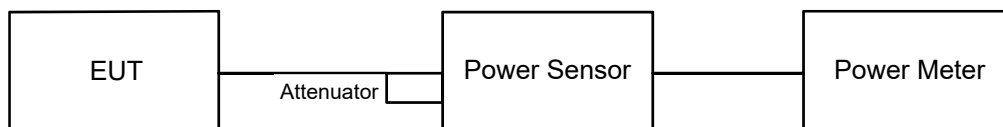
Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

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

6 Test Arrangements

6.1 RF Output Power

6.1.1 Test Setup

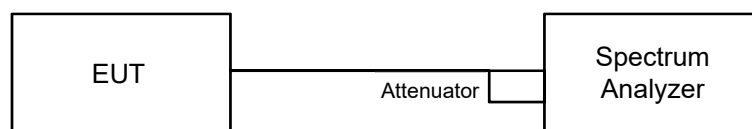


6.1.2 Test Procedure

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to average. Duty factor is not added to measured value.

6.2 Power Spectral Density

6.2.1 Test Setup



6.2.2 Test Procedure

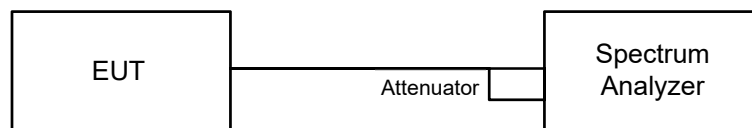
For specified measurement bandwidth 1 MHz:

Method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
- Sweep points $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Use the peak search function on the instrument to find the peak of the spectrum and record its value.
- Record the max value and add $10 \log (1/\text{duty cycle})$.

6.3 Emission Bandwidth

6.3.1 Test Setup

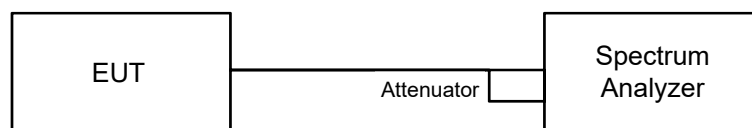


6.3.2 Test Procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6.4 In-Band Emission Mask

6.4.1 Test Setup

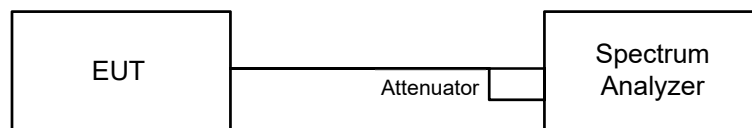


6.4.2 Test Procedure

- Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- Measure the power spectral density (for emissions mask reference) using the following procedure:
 - Set the span to encompass the entire 26 dB EBW of the signal.
 - Set RBW = same RBW used for 26 dB EBW measurement.
 - Set VBW $\geq [3 \times \text{RBW}]$.
 - Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - Sweep time = auto.
 - Detector = RMS (i.e., power averaging).
 - Trace average at least 100 traces in power averaging (rms) mode.
 - Use the peak search function on the instrument to find the peak of the spectrum.
- Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - Suppressed by 28 dB at one channel bandwidth from the channel center.
 - Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- Adjust the span to encompass the entire mask as necessary and clear trace.
- Trace average at least 100 traces in power averaging (rms) mode.
- Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

6.5 Occupied Bandwidth

6.5.1 Test Setup

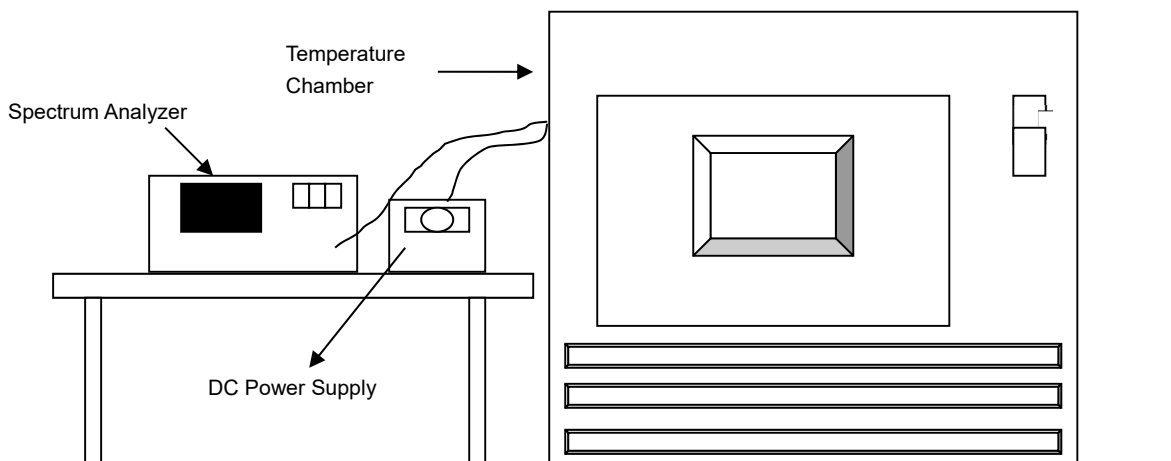


6.5.2 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to Sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean power of a given emission.

6.6 Frequency Stability

6.6.1 Test Setup

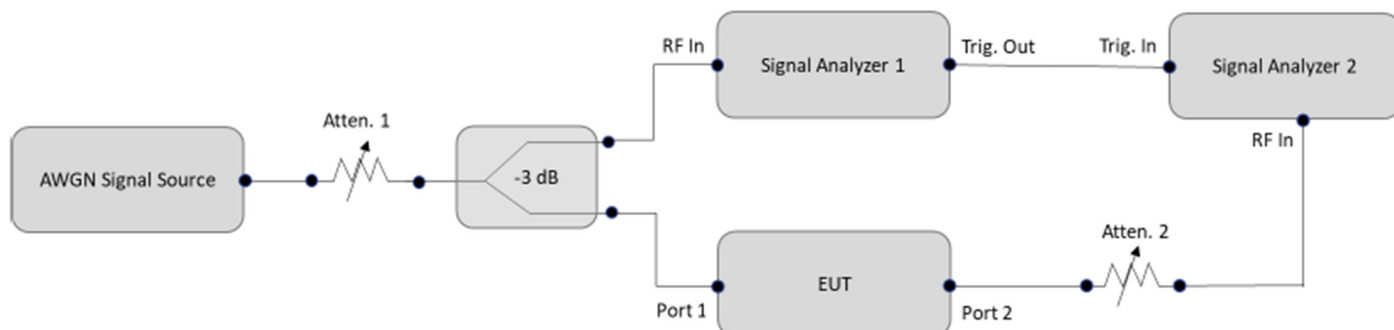


6.6.2 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

6.7 Contention-based Protocol

6.7.1 Test Setup



6.7.2 Test Procedure

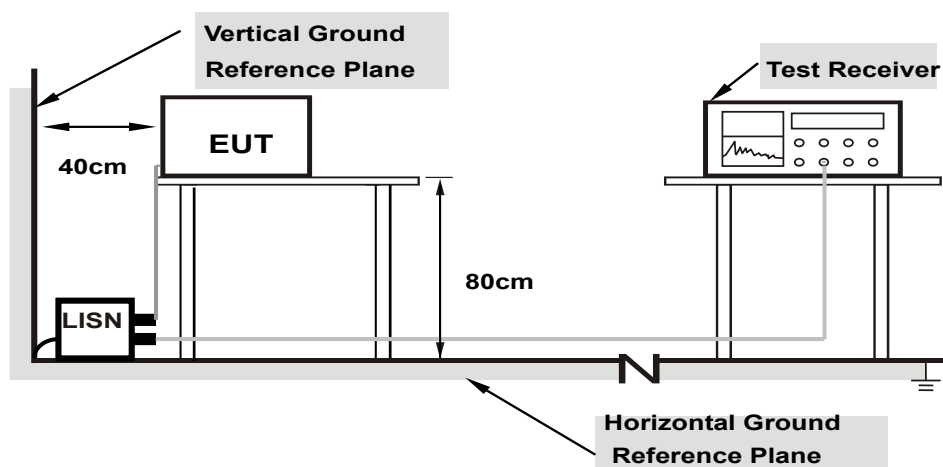
- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2 \times BW_{Inc}$	Once	Contained within BW_{EUT}
$2 \times BW_{Inc} < BW_{EUT} \leq 4 \times BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4 \times BW_{Inc}$	Three times	Closely to the lower edge, in the middle and upper edge of the EUT Channel

- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

6.8 AC Power Conducted Emissions

6.8.1 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.8.2 Test Procedure

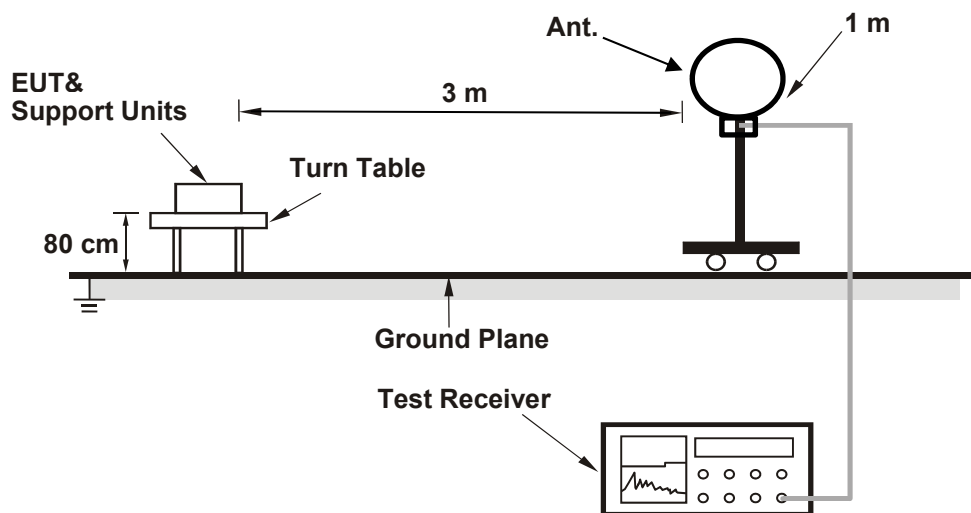
- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

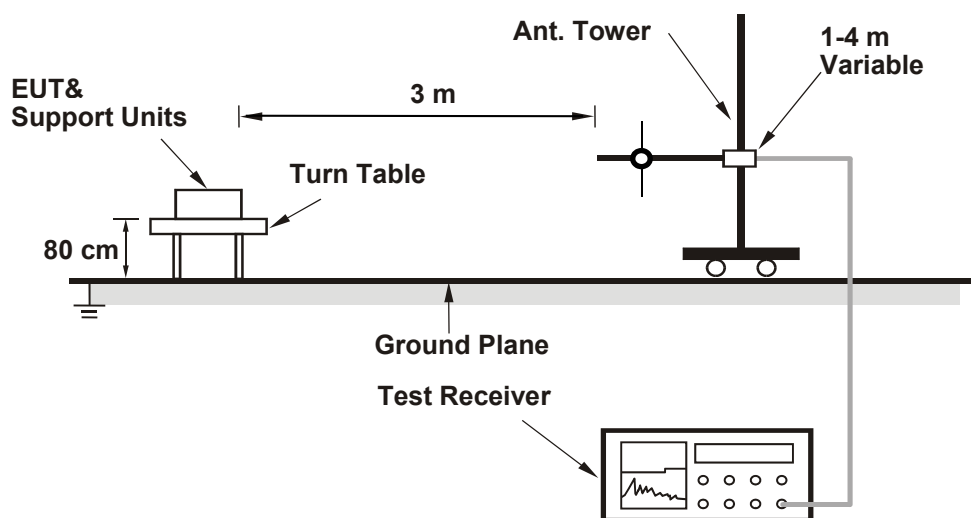
6.9 Unwanted Emissions below 1 GHz

6.9.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.9.2 Test Procedure

For Radiated emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

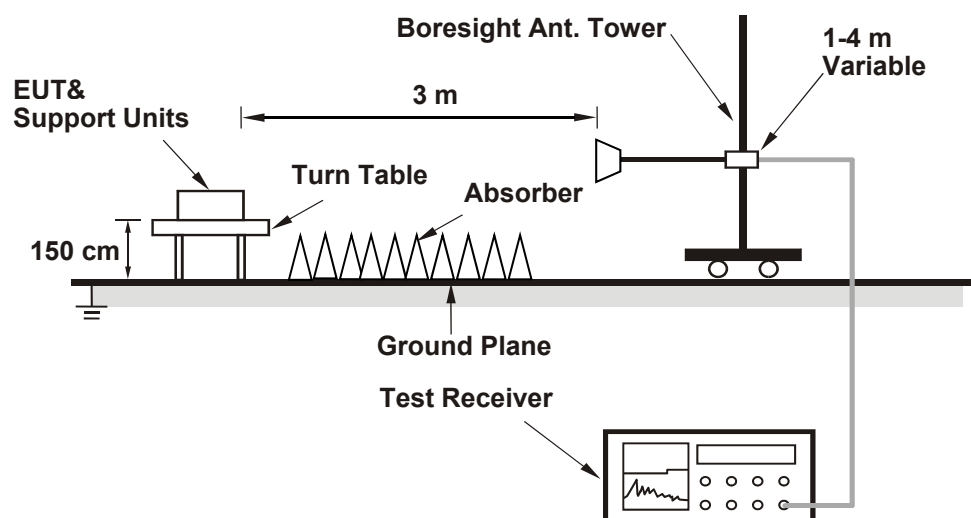
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-peak(QP) detect function, Average(AV) detect function, Peak(PK) detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP), Average detection (AV), Peak detection (PK) at frequency (30MHz to 1 GHz).
2. All modes of operation were investigated and the worst-case emissions are reported.

6.10 Unwanted Emissions above 1 GHz

6.10.1 Test Setup



For the actual test configuration, please refer to the attached file (Test Setup Photo).

6.10.2 Test Procedure

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Notes:

- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
- For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10 Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
--------------	---------	---------------------------	--------------	------------	-----------

802.11a 1TX

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
1	5955	301.995	24.80	4.76	903.649	29.56	30	Pass
45	6175	308.319	24.89	4.76	922.572	29.65	30	Pass
93	6415	301.301	24.79	4.76	901.572	29.55	30	Pass
117	6535	312.608	24.95	4.61	903.65	29.56	30	Pass
149	6695	326.588	25.14	4.61	944.061	29.75	30	Pass
181	6855	326.588	25.14	4.61	944.061	29.75	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 4.76 dBi
2. For U-NII-7, The antenna gain is 4.61 dBi

802.11ax (HE160) 1T1S

Chan.	Chan. Freq. (MHz)	Average Power (mW)	Average Power (dBm)	Antenna Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
15	6025	103.514	20.15	4.76	309.741	24.91	30	Pass
47	6185	84.14	19.25	4.76	251.769	24.01	30	Pass
79	6345	87.297	19.41	4.76	261.216	24.17	30	Pass
143	6665	100.693	20.03	4.61	291.071	24.64	30	Pass

Notes:

1. For U-NII-5, The antenna gain is 4.76 dBi
2. For U-NII-7, The antenna gain is 4.61 dBi

802.11a 2TX

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	18.97	19.21	162.254	22.10	4.76	485.507	26.86	30	Pass
45	6175	18.88	18.95	155.792	21.93	4.76	466.171	26.69	30	Pass
93	6415	18.66	19.00	152.884	21.84	4.76	457.469	26.6	30	Pass
117	6535	19.17	18.70	156.735	21.95	4.61	453.071	26.56	30	Pass
149	6695	19.25	19.10	165.423	22.19	4.61	478.185	26.8	30	Pass
181	6855	19.01	18.92	157.599	21.98	4.61	455.568	26.59	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE20) 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	19.13	19.24	165.792	22.20	4.76	496.094	26.96	30	Pass
45	6175	19.40	19.51	176.427	22.47	4.76	527.916	27.23	30	Pass
93	6415	19.23	19.49	172.673	22.37	4.76	516.683	27.13	30	Pass
117	6535	19.56	19.15	172.589	22.37	4.61	498.9	26.98	30	Pass
149	6695	19.56	19.41	177.662	22.50	4.61	513.564	27.11	30	Pass
181	6855	19.44	19.13	169.749	22.30	4.61	490.69	26.91	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE40) 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
3	5965	20.72	20.64	233.91	23.69	4.76	699.921	28.45	30	Pass
43	6165	22.13	22.02	322.526	25.09	4.76	965.083	29.85	30	Pass
91	6405	21.90	22.07	315.946	25.00	4.76	945.394	29.76	30	Pass
123	6565	22.06	21.60	305.238	24.85	4.61	882.345	29.46	30	Pass
155	6725	22.18	21.82	317.251	25.01	4.61	917.071	29.62	30	Pass
179	6845	22.05	21.75	309.948	24.91	4.61	895.96	29.52	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE80) 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
7	5985	19.50	19.51	178.456	22.52	4.76	533.988	27.28	30	Pass
39	6145	21.70	21.96	304.947	24.84	4.76	912.482	29.6	30	Pass
87	6385	21.81	22.01	310.56	24.92	4.76	929.278	29.68	30	Pass
135	6625	21.89	21.82	306.58	24.87	4.61	886.225	29.48	30	Pass
151	6705	22.19	22.16	330.014	25.19	4.61	953.965	29.8	30	Pass
167	6785	22.23	22.17	331.925	25.21	4.61	959.489	29.82	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE160) 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
15	6025	18.09	18.38	133.282	21.25	4.76	398.815	26.01	30	Pass
47	6185	18.63	18.81	148.978	21.73	4.76	445.782	26.49	30	Pass
79	6345	19.29	18.35	153.309	21.86	4.76	458.741	26.62	30	Pass
143	6665	19.12	18.80	157.516	21.97	4.61	455.328	26.58	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE20) 26-tone RU 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	9.76	9.56	18.499	12.67	4.76	55.354	17.43	30	Pass
93	6415	9.10	9.89	17.878	12.52	4.76	53.496	17.28	30	Pass
117	6535	10.32	9.66	20.012	13.01	4.61	57.848	17.62	30	Pass
181	6855	9.50	9.59	18.012	12.56	4.61	52.067	17.17	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE20) 52-tone RU 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	12.45	12.65	35.987	15.56	4.76	107.683	20.32	30	Pass
93	6415	12.35	12.44	34.718	15.41	4.76	103.885	20.17	30	Pass
117	6535	13.60	12.53	40.815	16.11	4.61	117.983	20.72	30	Pass
181	6855	12.47	12.60	35.857	15.55	4.61	103.651	20.16	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

802.11ax (HE20) 106-tone RU 2T1S

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Maximum Gain (dBi)	EIRP (mW)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
		Chain 0	Chain 1							
1	5955	15.13	14.84	63.063	18.00	4.76	188.701	22.76	30	Pass
93	6415	15.10	15.23	65.702	18.18	4.76	196.598	22.94	30	Pass
117	6535	15.35	14.87	64.967	18.13	4.61	187.799	22.74	30	Pass
181	6855	15.06	15.19	65.1	18.14	4.61	188.183	22.75	30	Pass

Notes:

1. Directional gain is the maximum gain of antennas.
2. For U-NII-5, The maximum gain is 4.76 dBi
3. For U-NII-7, The maximum gain is 4.61 dBi

7.2 Power Spectral Density

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
--------------	---------	---------------------------	--------------	------------	-----------

802.11a 1TX

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
1	5955	11.77	0.26	12.03	4.76	16.79	17	Pass
45	6175	11.8	0.26	12.06	4.76	16.82	17	Pass
93	6415	11.54	0.26	11.80	4.76	16.56	17	Pass
117	6535	11.69	0.26	11.95	4.61	16.56	17	Pass
149	6695	11.99	0.26	12.25	4.61	16.86	17	Pass
181	6855	12.02	0.26	12.28	4.61	16.89	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 4.76 dBi
2. For U-NII-7, The antenna gain is 4.61 dBi

802.11ax (HE160) 1T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD (dBm/MHz)	Antenna Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
15	6025	-1.73	1.73	0.00	4.76	4.76	17	Pass
47	6185	2.36	1.73	4.09	4.76	8.85	17	Pass
79	6345	2.21	1.73	3.94	4.76	8.7	17	Pass
143	6665	2.54	1.73	4.27	4.61	8.88	17	Pass

Notes:

1. For U-NII-5, The antenna gain is 4.76 dBi
2. For U-NII-7, The antenna gain is 4.61 dBi

802.11a 2TX

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
1	5955	6.01	4.70	0.26	8.67	7.77	16.44	17	Pass
45	6175	5.76	5.38	0.26	8.84	7.77	16.61	17	Pass
93	6415	5.35	5.77	0.26	8.84	7.77	16.61	17	Pass
117	6535	5.55	5.78	0.26	8.94	7.62	16.56	17	Pass
149	6695	5.26	6.22	0.26	9.04	7.62	16.66	17	Pass
181	6855	6.07	5.37	0.26	9.00	7.62	16.62	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

802.11ax (HE20) 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
1	5955	5.78	5.20	0.51	9.02	7.77	16.79	17	Pass
45	6175	4.54	6.31	0.51	9.03	7.77	16.8	17	Pass
93	6415	5.91	5.15	0.51	9.07	7.77	16.84	17	Pass
117	6535	5.75	5.22	0.51	9.01	7.62	16.63	17	Pass
149	6695	5.44	5.17	0.51	8.83	7.62	16.45	17	Pass
181	6855	5.32	5.57	0.51	8.97	7.62	16.59	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

802.11ax (HE40) 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
3	5965	3.71	3.32	0.51	7.04	7.77	14.81	17	Pass
43	6165	5.00	4.70	0.51	8.37	7.77	16.14	17	Pass
91	6405	5.05	4.95	0.51	8.52	7.77	16.29	17	Pass
123	6565	4.83	5.29	0.51	8.59	7.62	16.21	17	Pass
155	6725	5.03	5.64	0.51	8.87	7.62	16.49	17	Pass
179	6845	4.84	5.15	0.51	8.52	7.62	16.14	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

802.11ax (HE80) 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
7	5985	-2.42	-0.26	0.99	2.79	7.77	10.56	17	Pass
39	6145	0.58	2.69	0.99	5.76	7.77	13.53	17	Pass
87	6385	0.31	2.99	0.99	5.85	7.77	13.62	17	Pass
135	6625	0.12	2.46	0.99	5.45	7.62	13.07	17	Pass
151	6705	1.02	2.96	0.99	6.10	7.62	13.72	17	Pass
167	6785	1.09	2.87	0.99	6.07	7.62	13.69	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

802.11ax (HE160) 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
15	6025	-5.23	-4.02	1.73	0.16	7.77	7.93	17	Pass
47	6185	-1.70	-0.12	1.73	3.90	7.77	11.67	17	Pass
79	6345	-1.18	-0.38	1.73	3.98	7.77	11.75	17	Pass
143	6665	-1.45	-0.04	1.73	4.05	7.62	11.67	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

802.11ax (HE20) 26-tone RU 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
1	5955	4.22	4.89	1.27	8.85	7.77	16.62	17	Pass
93	6415	4.69	4.31	1.27	8.78	7.77	16.55	17	Pass
117	6535	4.93	4.56	1.27	9.03	7.62	16.65	17	Pass
181	6855	5.22	4.53	1.27	9.17	7.62	16.79	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

802.11ax (HE20) 52-tone RU 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
1	5955	4.71	4.42	1.51	9.09	7.77	16.86	17	Pass
93	6415	3.67	4.57	1.51	8.66	7.77	16.43	17	Pass
117	6535	4.82	4.18	1.51	9.03	7.62	16.65	17	Pass
181	6855	4.15	4.74	1.51	8.98	7.62	16.6	17	Pass

Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

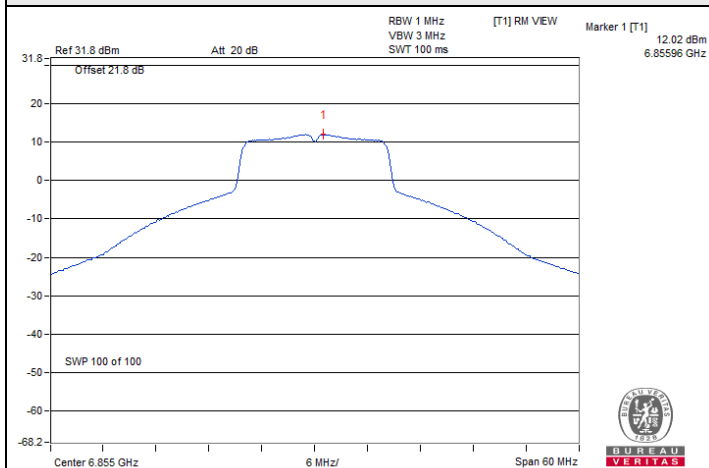
802.11ax (HE20) 106-tone RU 2T1S

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Directional Gain (dBi)	EIRP PSD (dBm/MHz)	EIRP PSD Limit (dBm/MHz)	Test Result
		Chain 0	Chain 1						
1	5955	4.30	4.46	1.74	9.13	7.77	16.9	17	Pass
93	6415	3.60	4.30	1.74	8.71	7.77	16.48	17	Pass
117	6535	4.03	4.32	1.74	8.93	7.62	16.55	17	Pass
181	6855	4.18	4.17	1.74	8.93	7.62	16.55	17	Pass

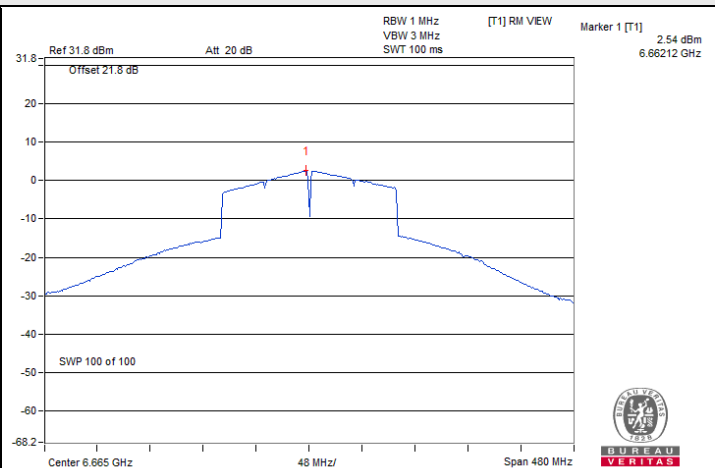
Notes:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = gain of antenna element + 10 log (2 of TX antenna elements)
3. For U-NII-5, The directional gain is 7.77 dBi
4. For U-NII-7, The directional gain is 7.62 dBi

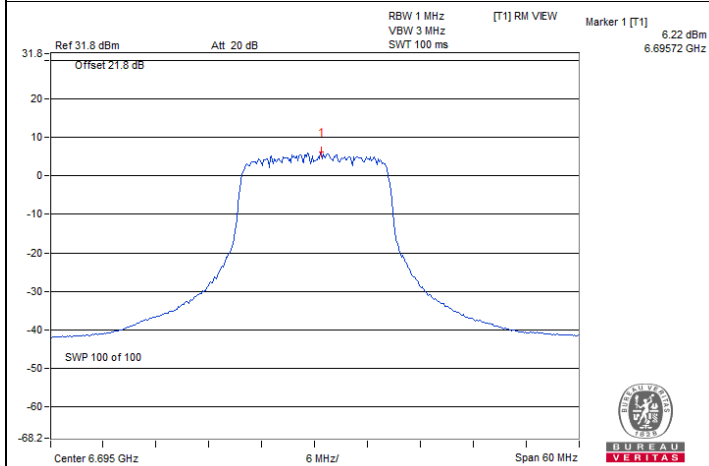
Spectrum Plot of Maximum Value



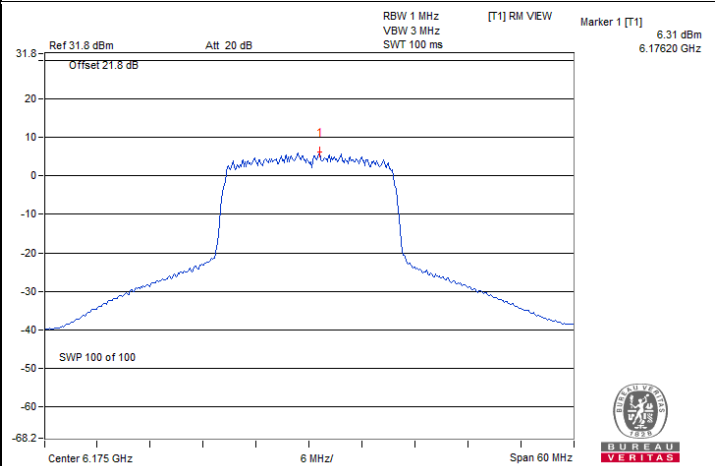
802.11a 1TX : CH 181



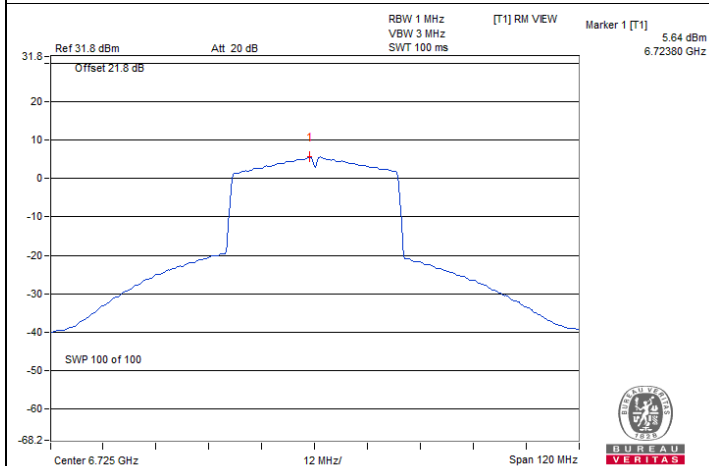
802.11ax (HE160) 1T1S : CH 143



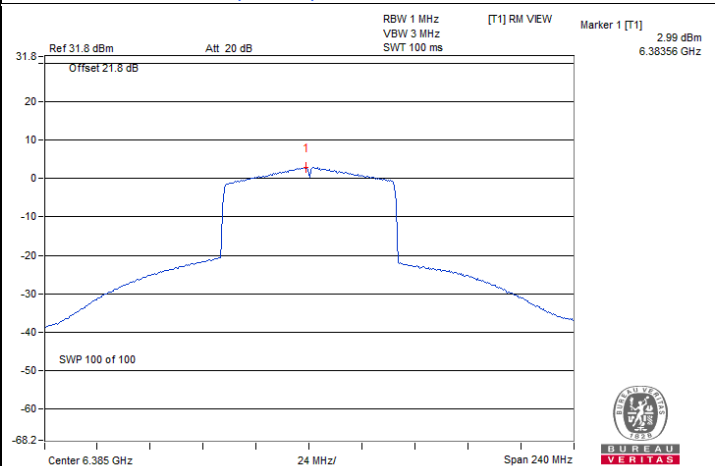
802.11a 2TX / Chain 1 : CH 149



802.11ax (HE20) 2T1S / Chain 1 : CH 45

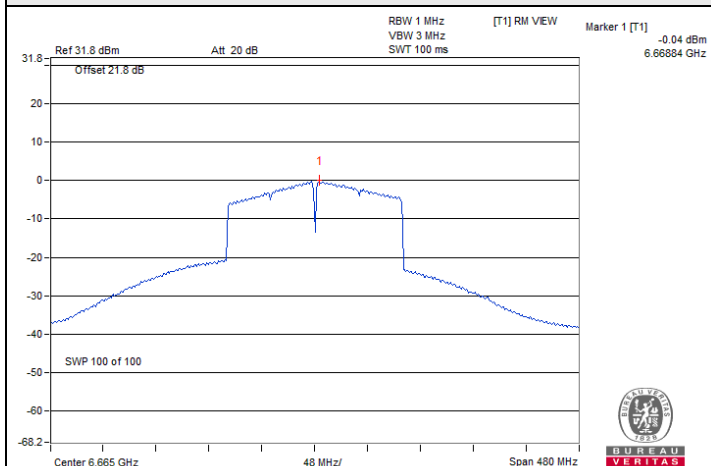


802.11ax (HE40) 2T1S / Chain 1 : CH 155

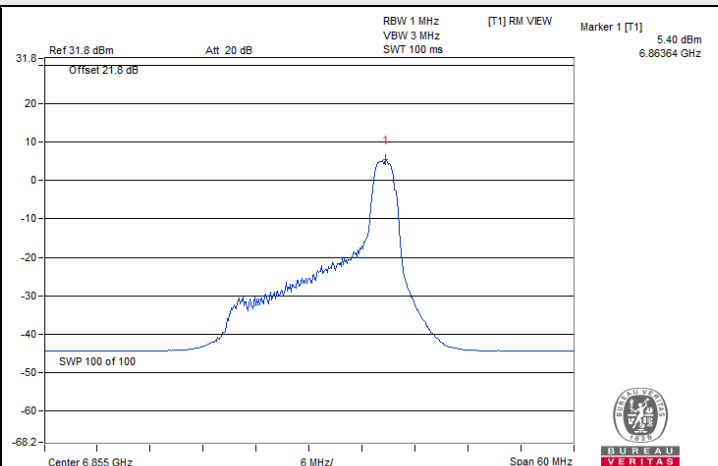


802.11ax (HE80) 2T1S / Chain 1 : CH 87

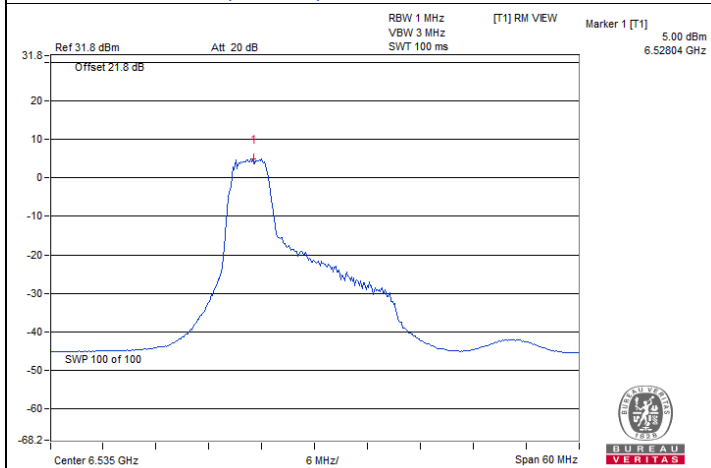
Spectrum Plot of Maximum Value



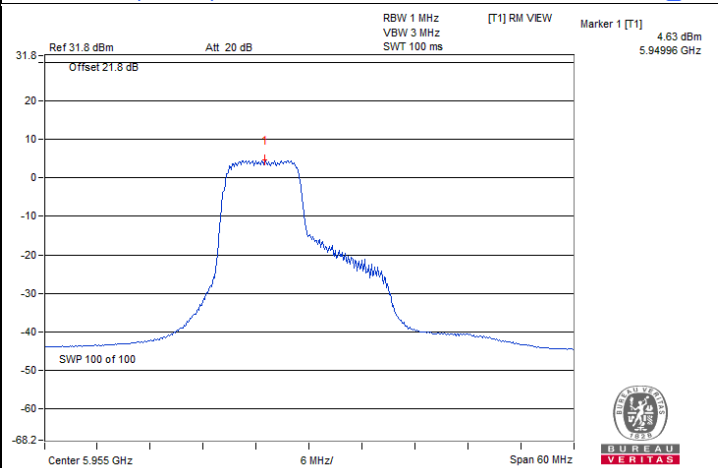
802.11ax (HE160) 2T1S / Chain 1 : CH 143



802.11ax (HE20) 26-tone RU 2T1S / Chain 0 : CH 181@8



802.11ax (HE20) 52-tone RU 2T1S / Chain 0 : CH 117@37



802.11ax (HE20) 106-tone RU 2T1S / Chain 1 : CH 1@53

7.3 Emission Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
--------------	---------	---------------------------	--------------	------------	-----------

802.11a 1TX

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Maximum Limit (MHz)
1	5955	80.68	320
45	6175	86.16	320
93	6415	79.15	320
117	6535	57.53	320
149	6695	53.4	320
181	6855	57.19	320

802.11ax (HE160) 1T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Maximum Limit (MHz)
15	6025	318.47	320
47	6185	310.71	320
79	6345	311.18	320
143	6665	317.84	320

802.11a 2TX

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
1	5955	33.67	33.25	320
45	6175	22.35	21.42	320
93	6415	21.94	22.11	320
117	6535	21.72	21.52	320
149	6695	21.91	20.97	320
181	6855	22.45	21.94	320

802.11ax (HE20) 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
1	5955	32.07	32.80	320
45	6175	22.93	22.01	320
93	6415	22.49	22.24	320
117	6535	22.74	22.82	320
149	6695	22.43	22.33	320
181	6855	22.85	22.91	320

802.11ax (HE40) 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
3	5965	62.11	58.42	320
43	6165	68.87	68.93	320
91	6405	67.92	62.53	320
123	6565	65.00	57.63	320
155	6725	61.01	60.67	320
179	6845	71.24	56.71	320

802.11ax (HE80) 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
7	5985	111.57	107.51	320
39	6145	159.92	161.16	320
87	6385	173.37	149.84	320
135	6625	157.73	159.59	320
151	6705	176.33	162.65	320
167	6785	176.32	165.13	320

802.11ax (HE160) 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
15	6025	283.91	248.80	320
47	6185	311.40	307.58	320
79	6345	318.78	307.29	320
143	6665	318.48	312.14	320

802.11ax (HE20) 26-tone RU 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
1	5955	20.96	20.35	320
93	6415	20.82	20.58	320
117	6535	20.75	20.70	320
181	6855	20.79	20.25	320

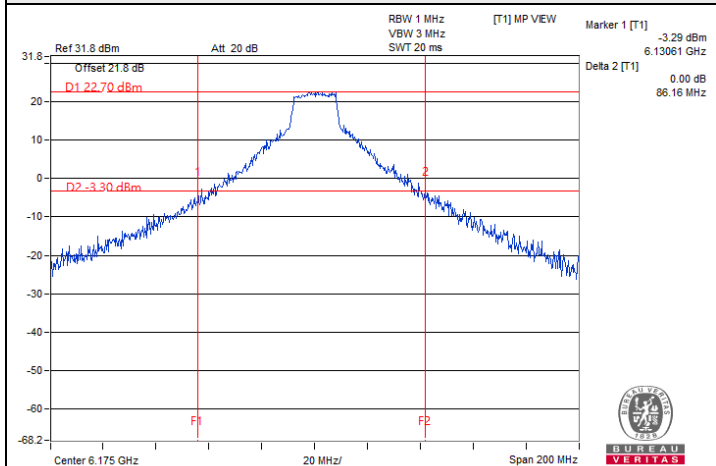
802.11ax (HE20) 52-tone RU 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
1	5955	21.34	20.78	320
93	6415	20.92	20.50	320
117	6535	21.38	20.80	320
181	6855	21.12	20.48	320

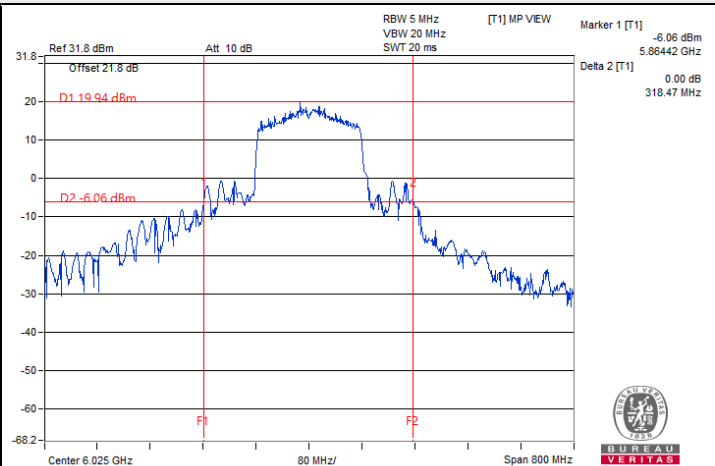
802.11ax (HE20) 106-tone RU 2T1S

Channel	Frequency (MHz)	26dB Bandwidth (MHz)		Maximum Limit (MHz)
		Chain 0	Chain 1	
1	5955	21.76	21.23	320
93	6415	21.82	21.04	320
117	6535	21.77	21.13	320
181	6855	21.68	21.33	320

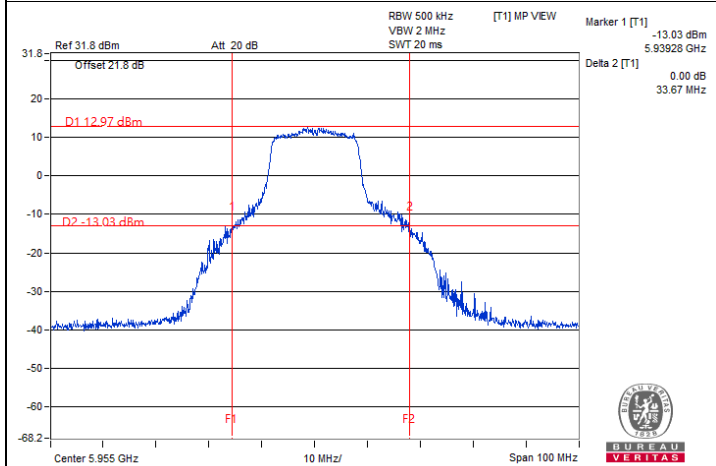
Spectrum Plot of Maximum Value



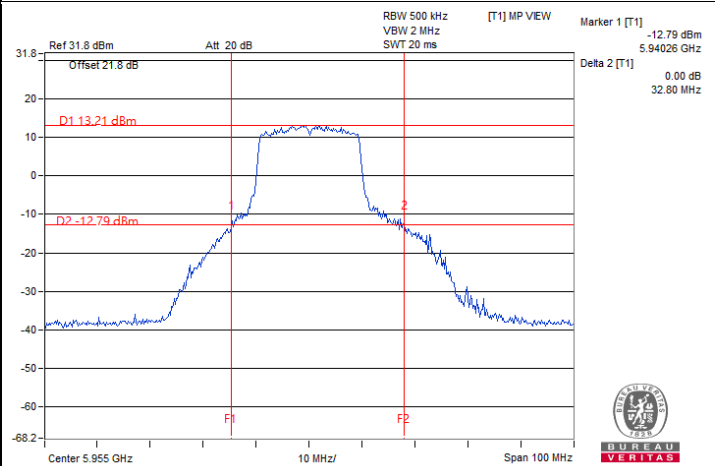
802.11a 1TX / Chain 0 : CH 45



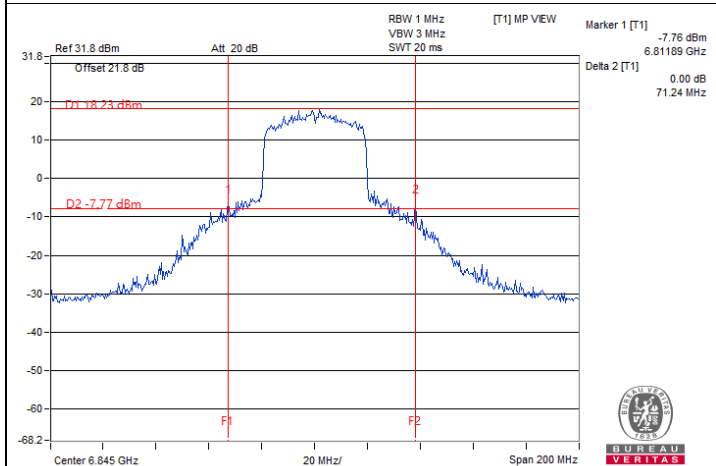
802.11ax (HE160) 1T1S / Chain 0 : CH 15



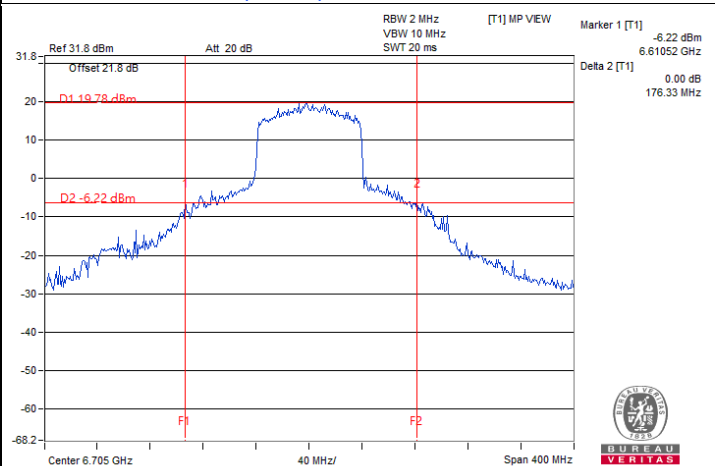
802.11a 2TX / Chain 0 : CH 1



802.11ax (HE20) 2T1S / Chain 1 : CH 1

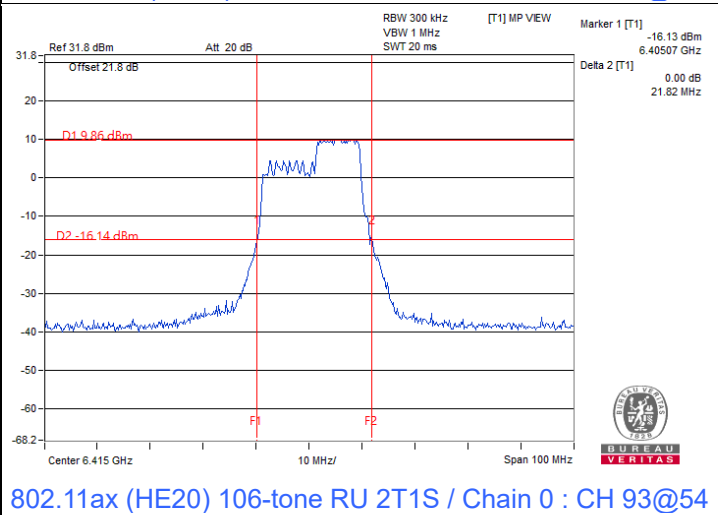
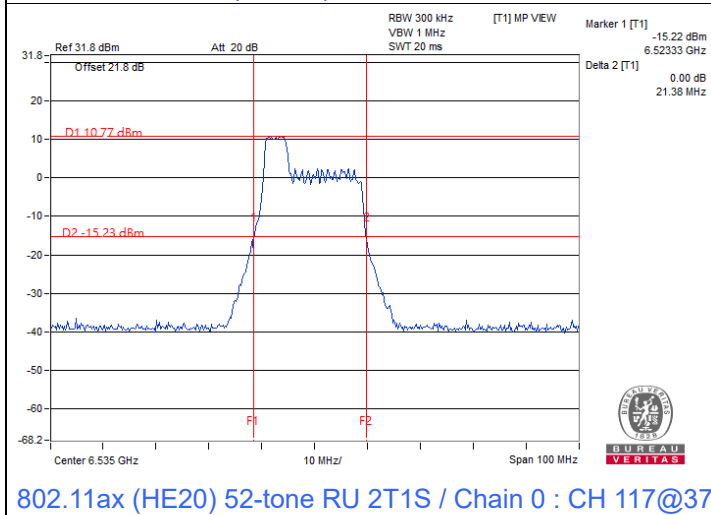
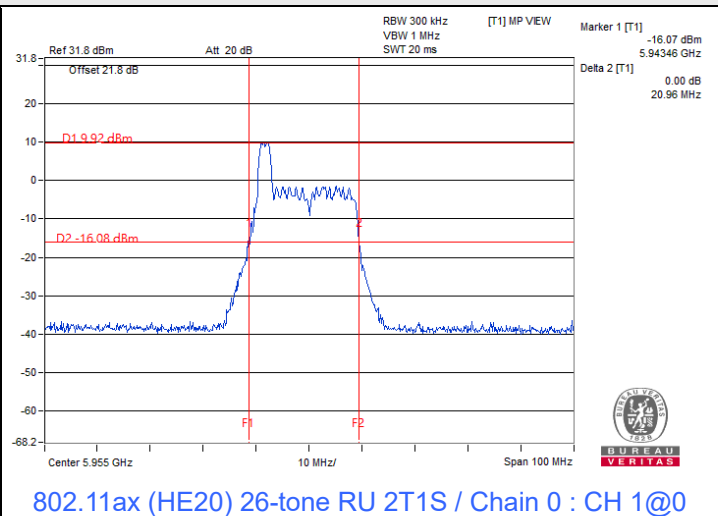
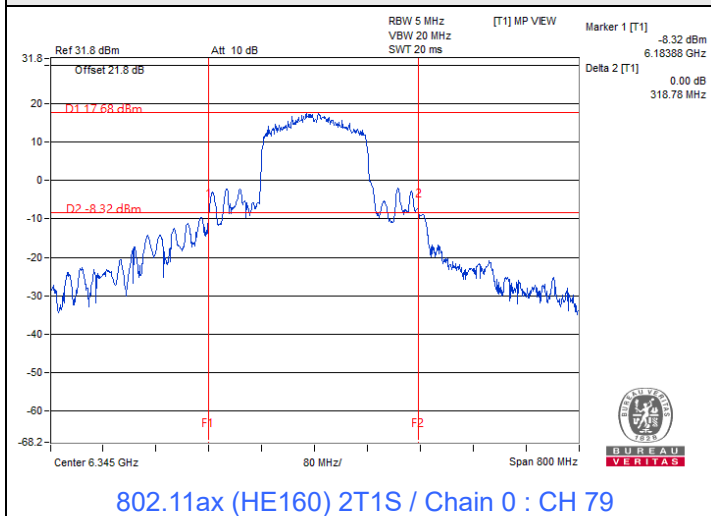


802.11ax (HE40) 2T1S / Chain 0 : CH 179



802.11ax (HE80) 2T1S / Chain 0 : CH 151

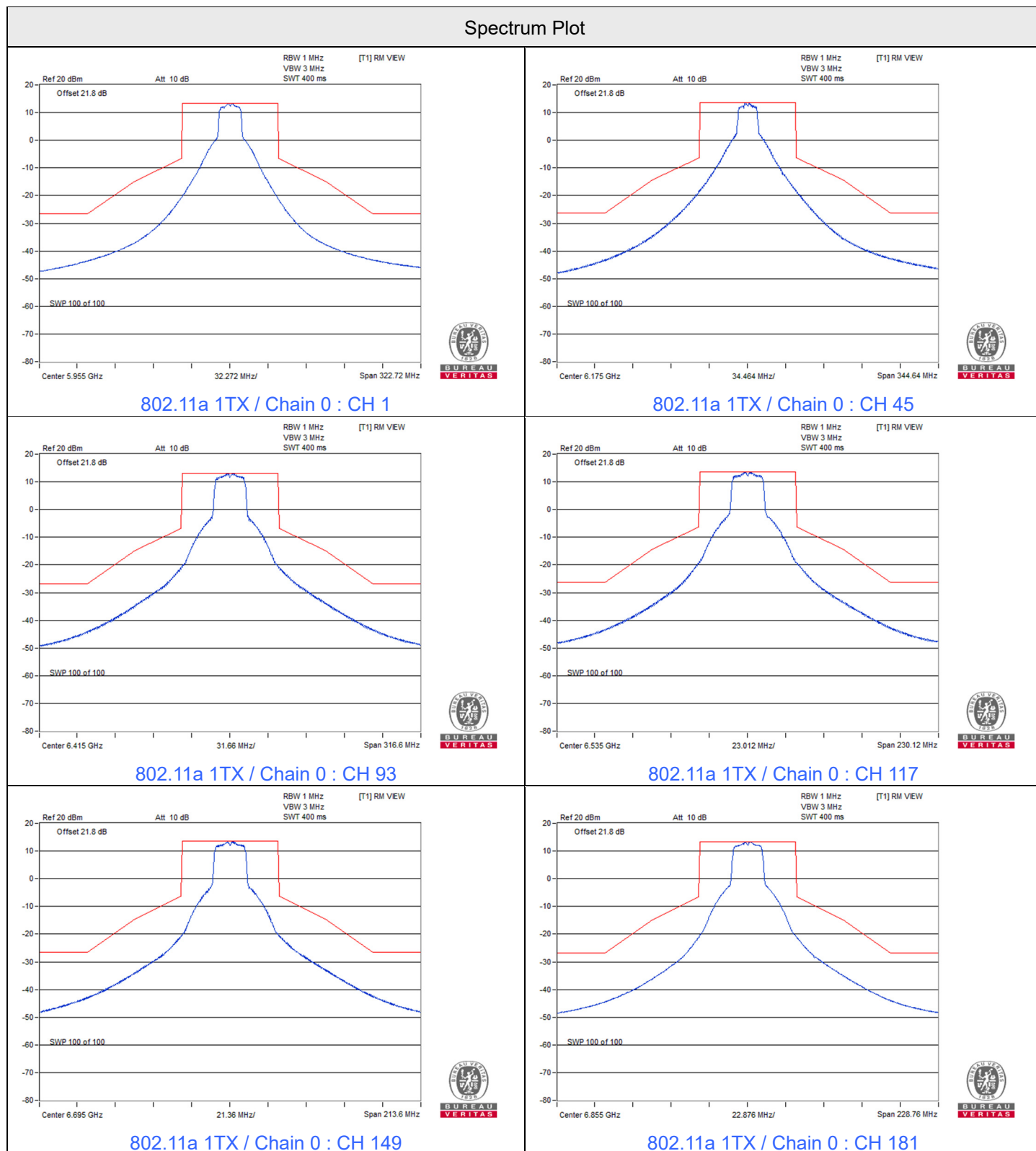
Spectrum Plot of Maximum Value



7.4 In-Band Emission Mask

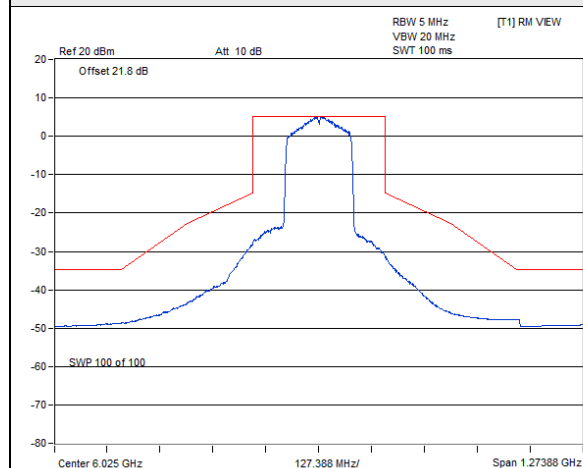
Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
--------------	---------	---------------------------	--------------	------------	-----------

802.11a 1TX

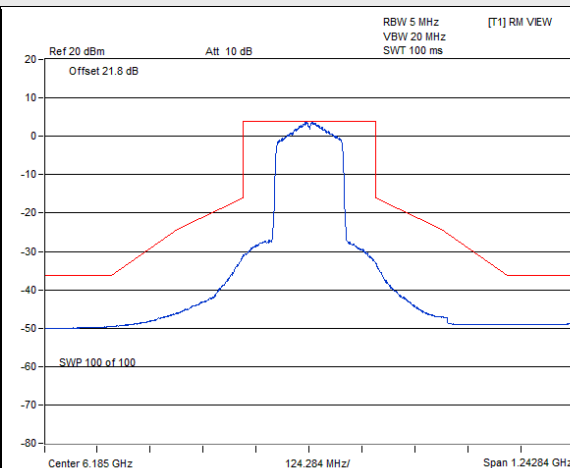


802.11ax (HE160) 1T1S

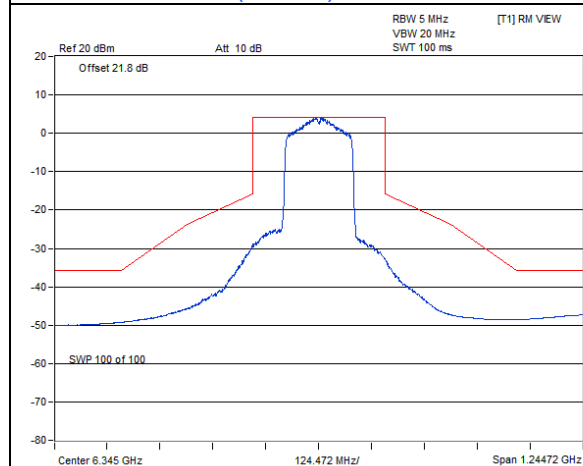
Spectrum Plot



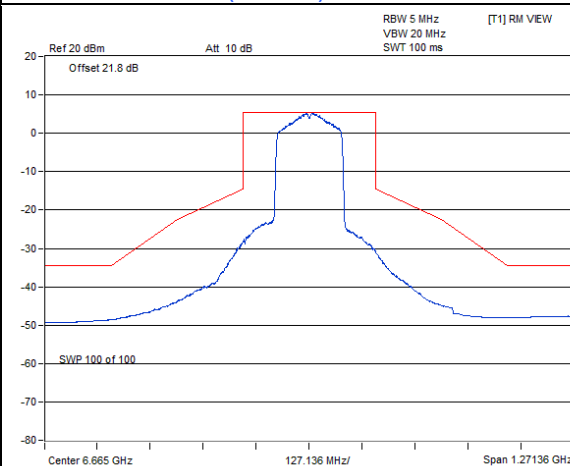
802.11ax (HE160) 1T1S / Chain 0 : CH 15



802.11ax (HE160) 1T1S / Chain 0 : CH 47



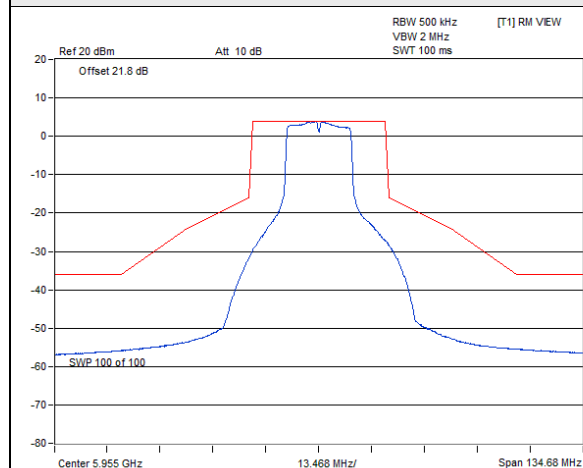
802.11ax (HE160) 1T1S / Chain 0 : CH 79



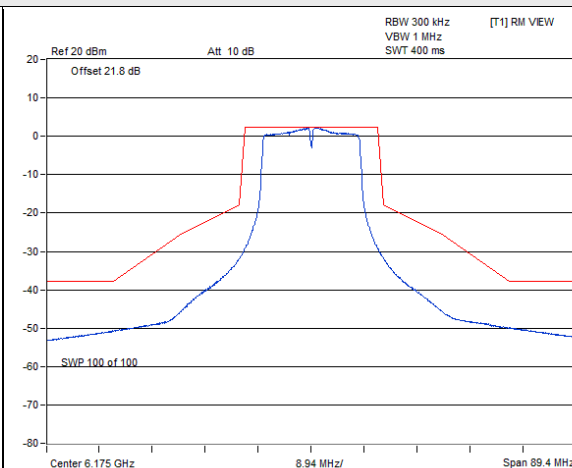
802.11ax (HE160) 1T1S / Chain 0 : CH 143

802.11a 2TX

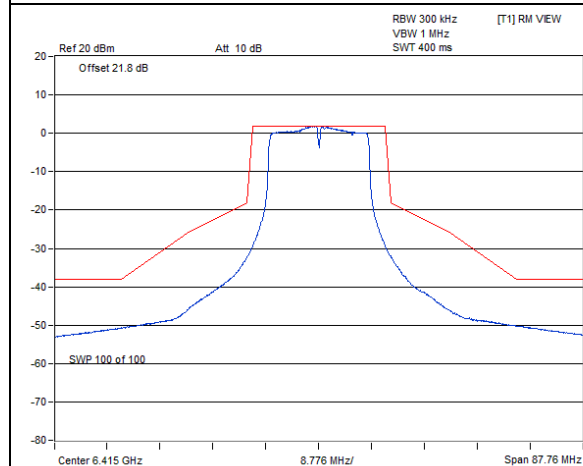
Spectrum Plot



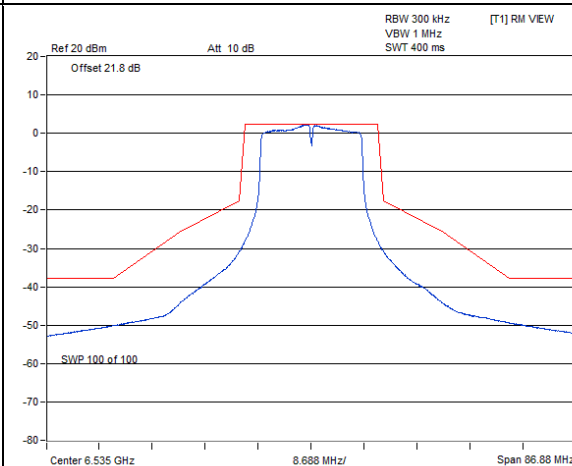
802.11a 2TX / Chain 0 : CH 1



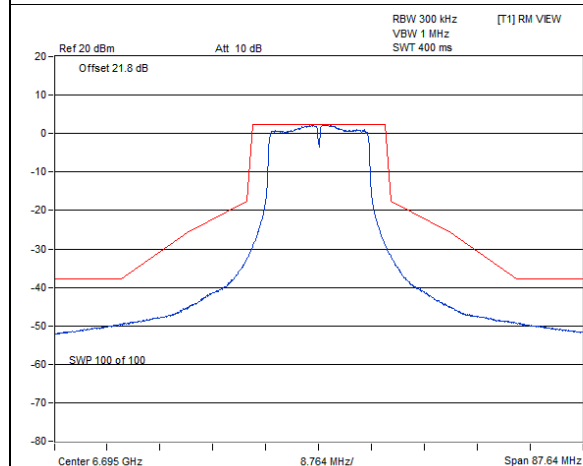
802.11a 2TX / Chain 0 : CH 45



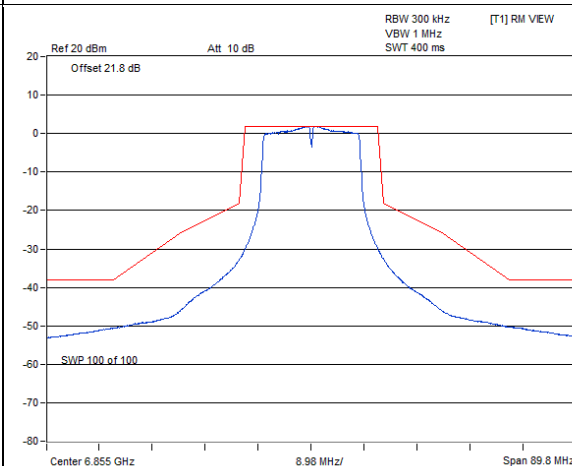
802.11a 2TX / Chain 0 : CH 93



802.11a 2TX / Chain 0 : CH 117

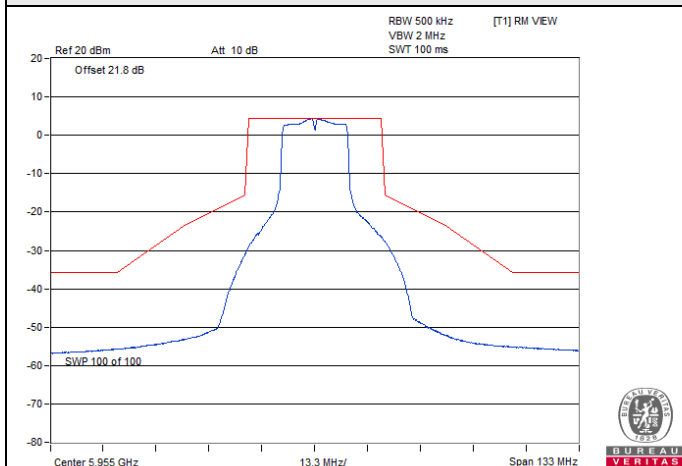


802.11a 2TX / Chain 0 : CH 149

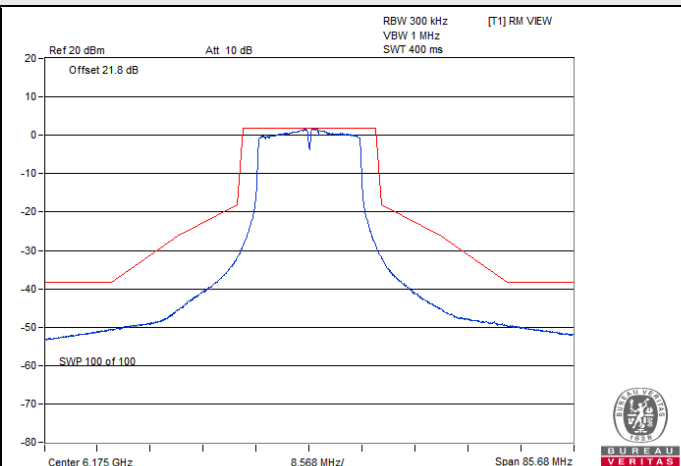


802.11a 2TX / Chain 0 : CH 181

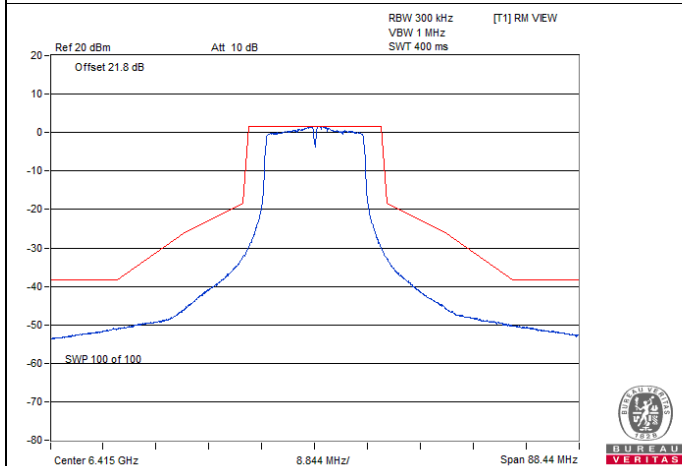
Spectrum Plot



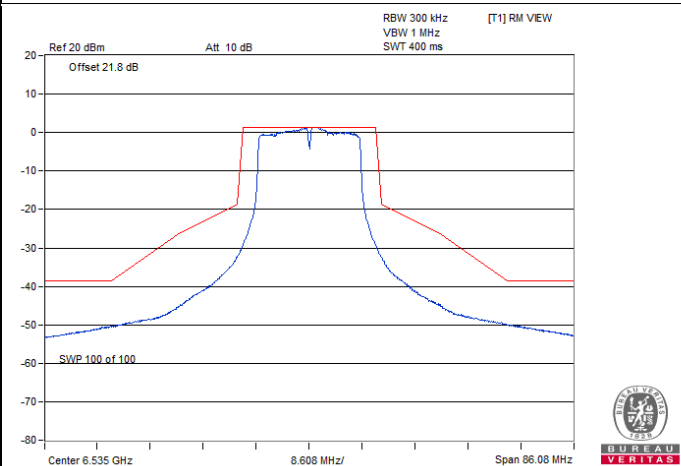
802.11a 2TX / Chain 1 : CH 1



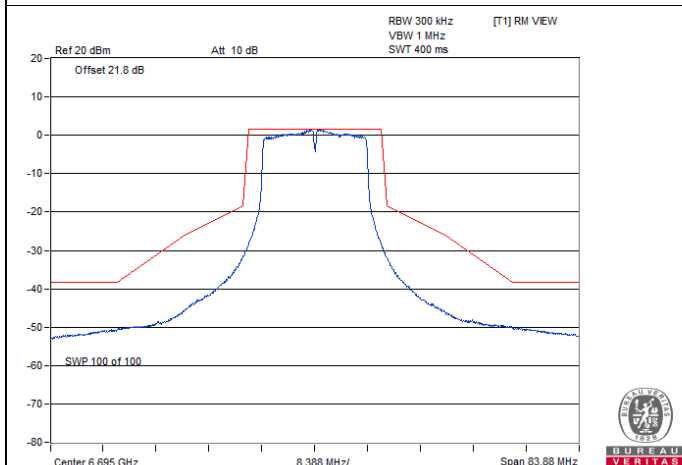
802.11a 2TX / Chain 1 : CH 45



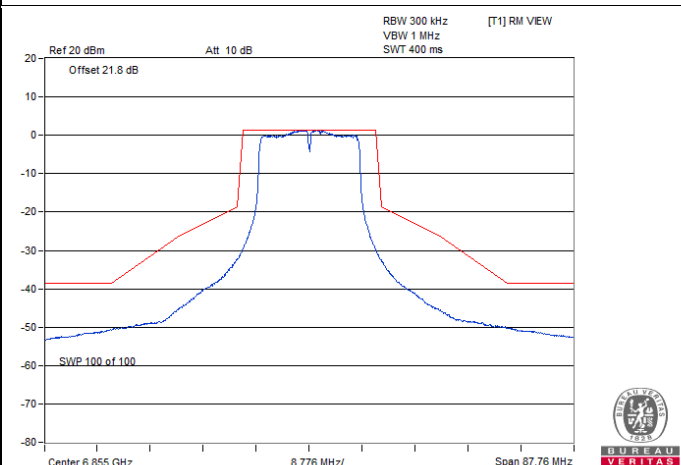
802.11a 2TX / Chain 1 : CH 93



802.11a 2TX / Chain 1 : CH 117



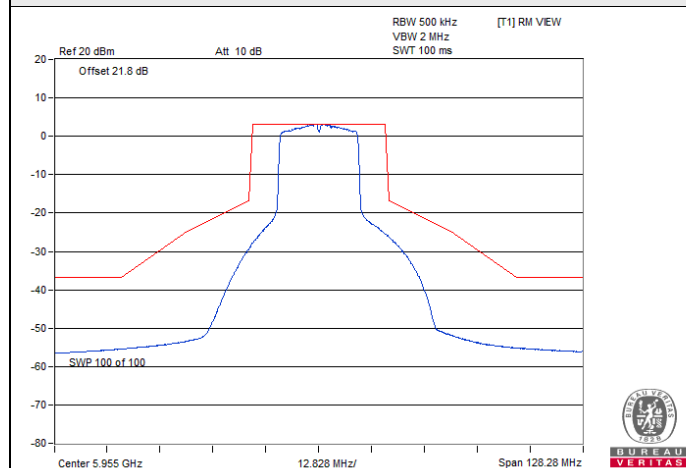
802.11a 2TX / Chain 1 : CH 149



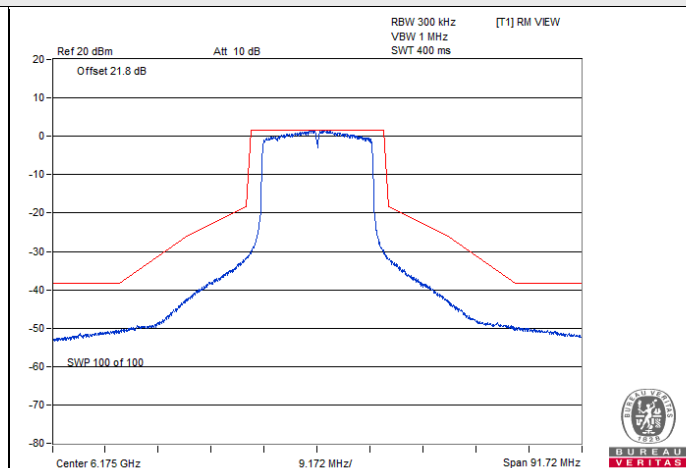
802.11a 2TX / Chain 1 : CH 181

802.11ax (HE20) 2T1S

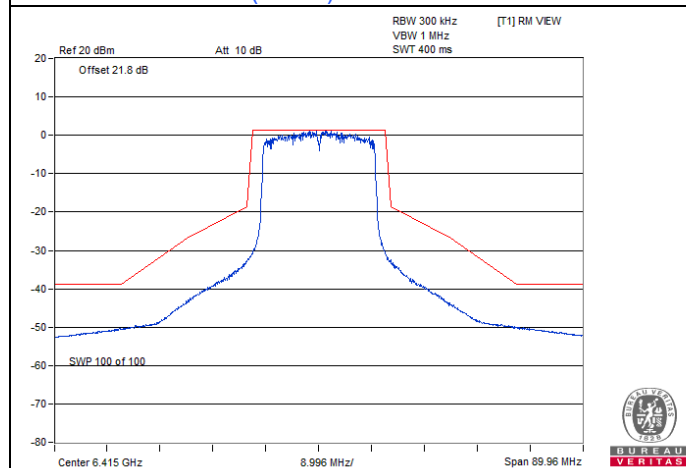
Spectrum Plot



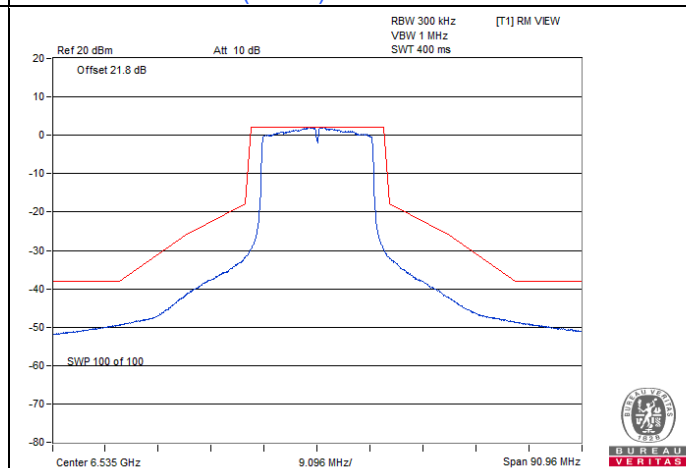
802.11ax (HE20) 2T1S / Chain 0 : CH 1



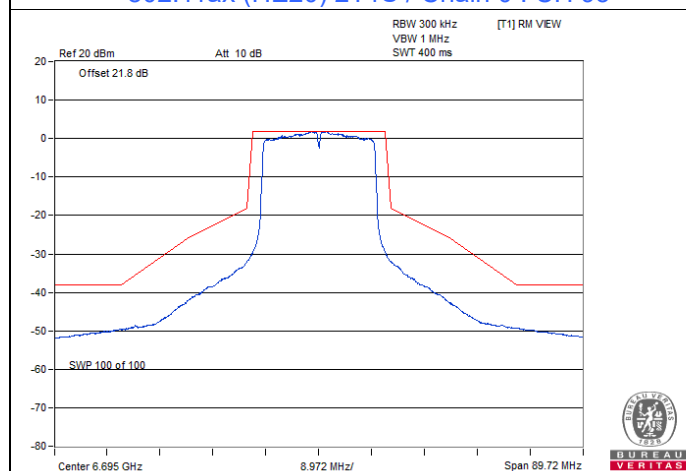
802.11ax (HE20) 2T1S / Chain 0 : CH 45



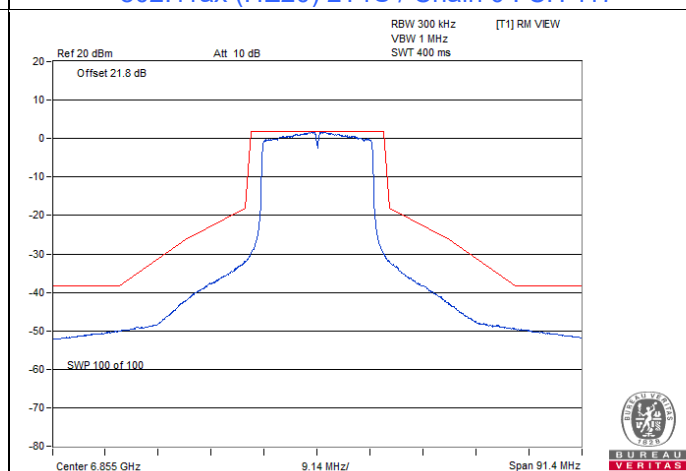
802.11ax (HE20) 2T1S / Chain 0 : CH 93



802.11ax (HE20) 2T1S / Chain 0 : CH 117

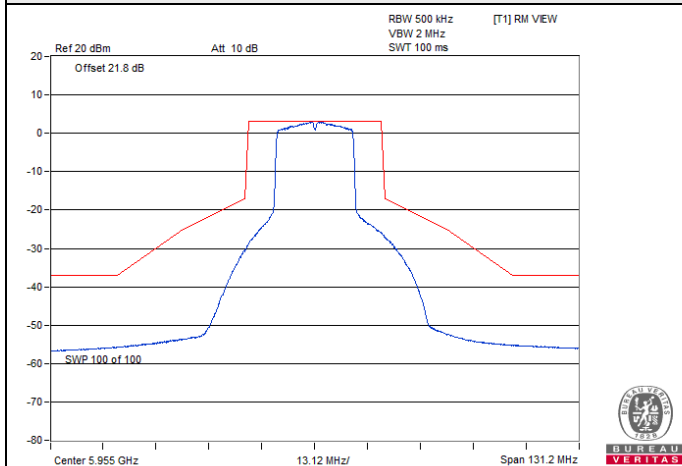


802.11ax (HE20) 2T1S / Chain 0 : CH 149

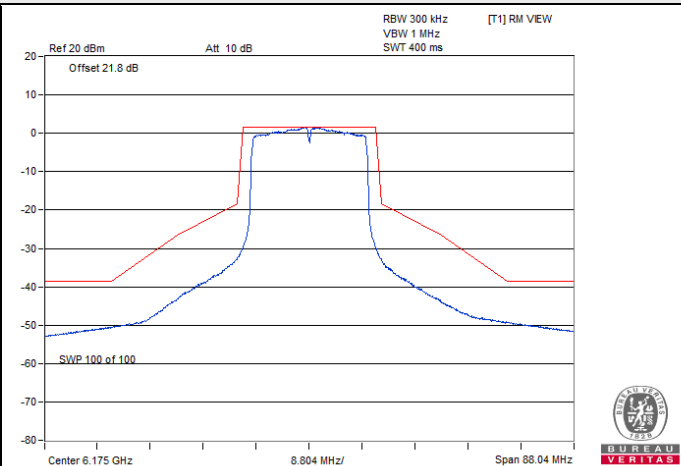


802.11ax (HE20) 2T1S / Chain 0 : CH 181

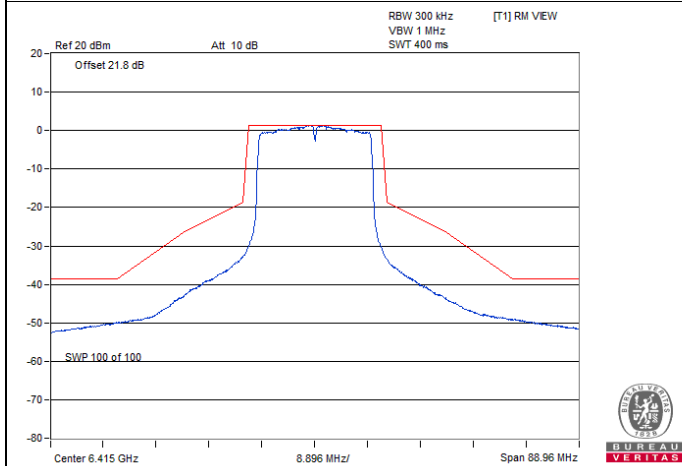
Spectrum Plot



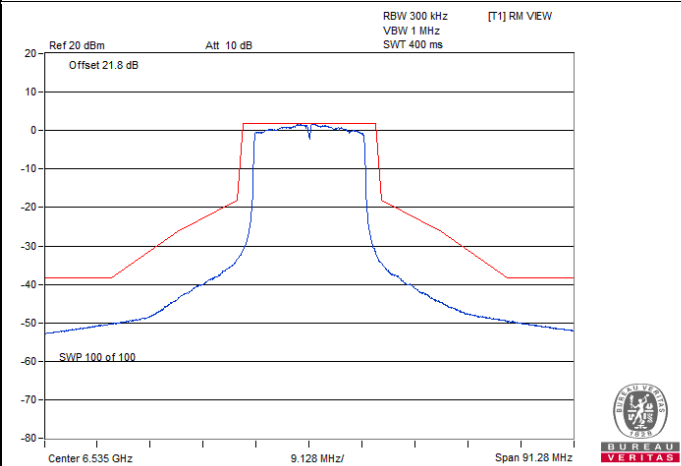
802.11ax (HE20) 2T1S / Chain 1 : CH 1



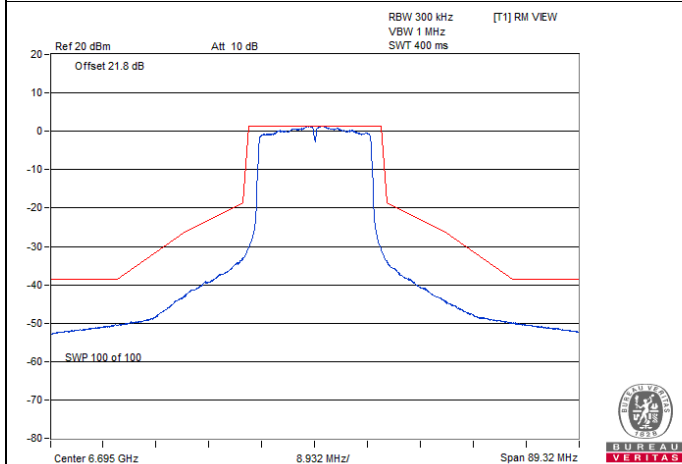
802.11ax (HE20) 2T1S / Chain 1 : CH 45



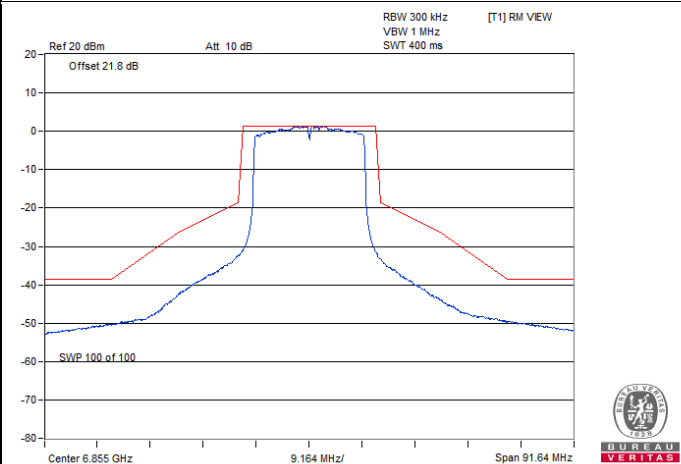
802.11ax (HE20) 2T1S / Chain 1 : CH 93



802.11ax (HE20) 2T1S / Chain 1 : CH 117



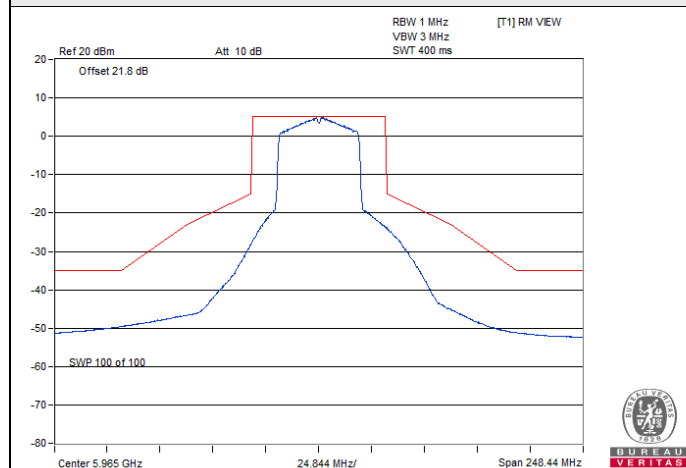
802.11ax (HE20) 2T1S / Chain 1 : CH 149



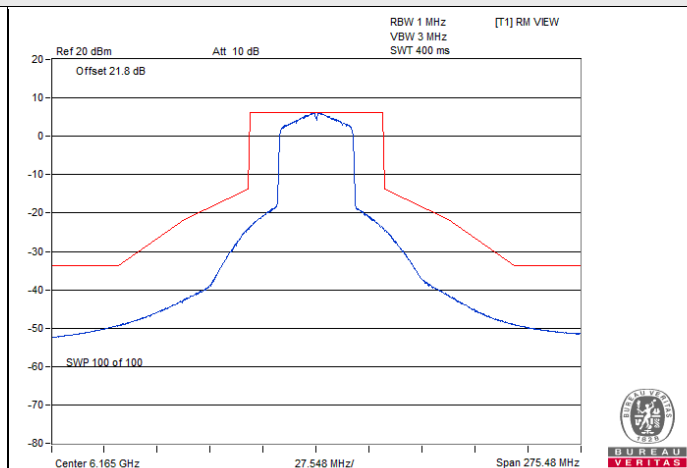
802.11ax (HE20) 2T1S / Chain 1 : CH 181

802.11ax (HE40) 2T1S

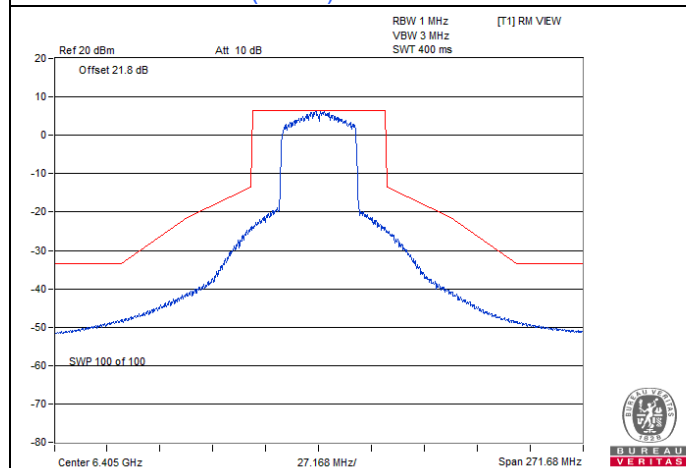
Spectrum Plot



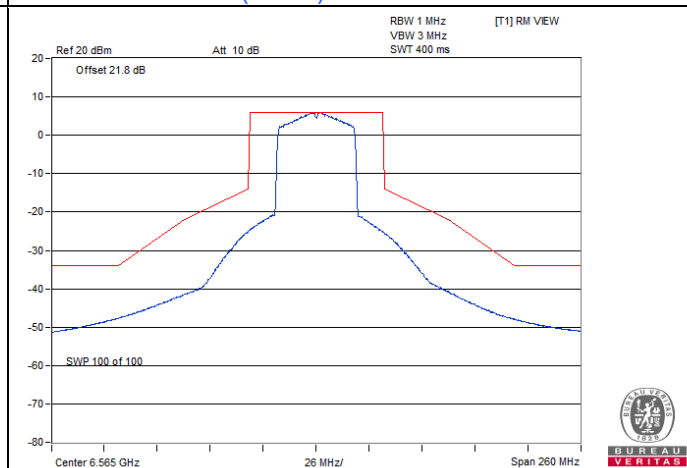
802.11ax (HE40) 2T1S / Chain 0 : CH 3



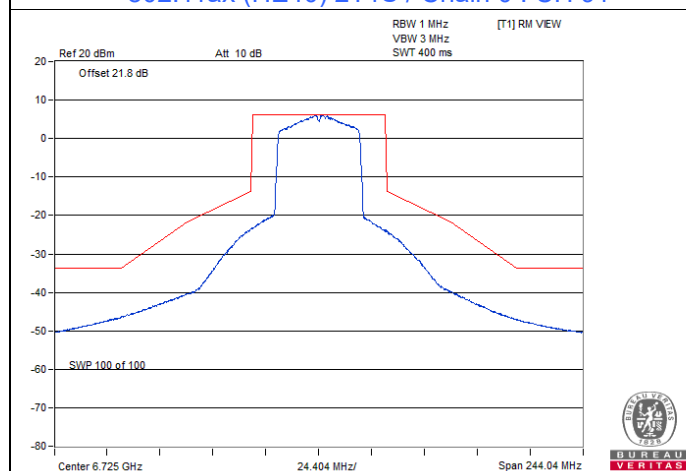
802.11ax (HE40) 2T1S / Chain 0 : CH 43



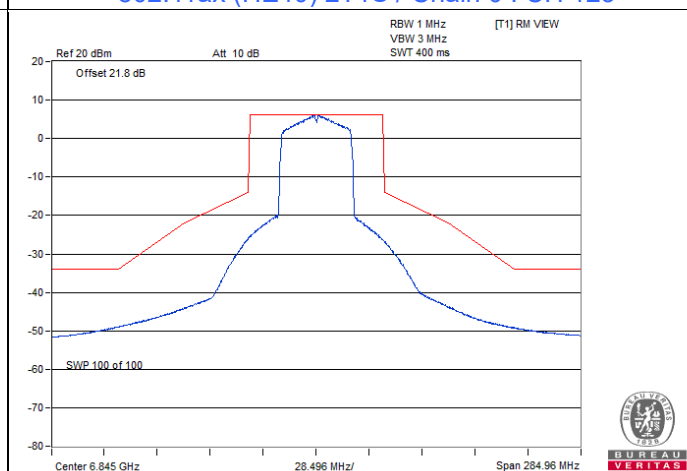
802.11ax (HE40) 2T1S / Chain 0 : CH 91



802.11ax (HE40) 2T1S / Chain 0 : CH 123

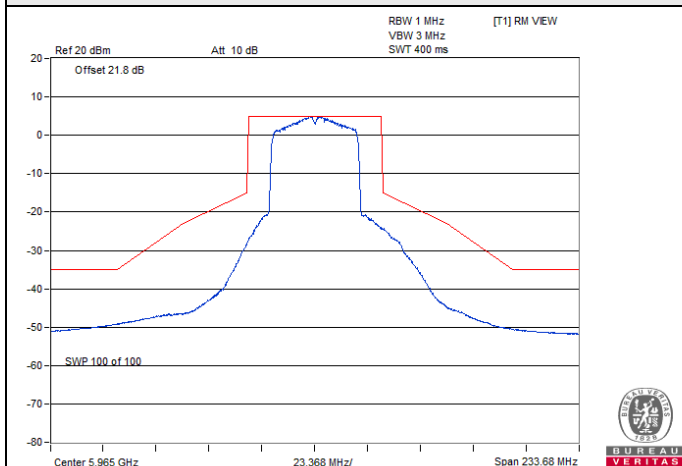


802.11ax (HE40) 2T1S / Chain 0 : CH 155

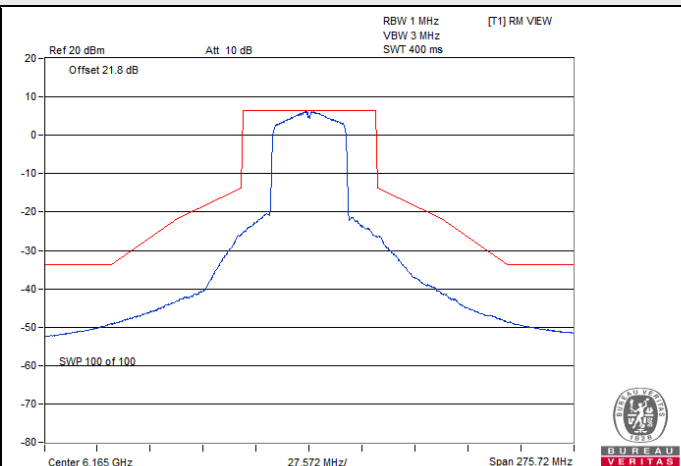


802.11ax (HE40) 2T1S / Chain 0 : CH 179

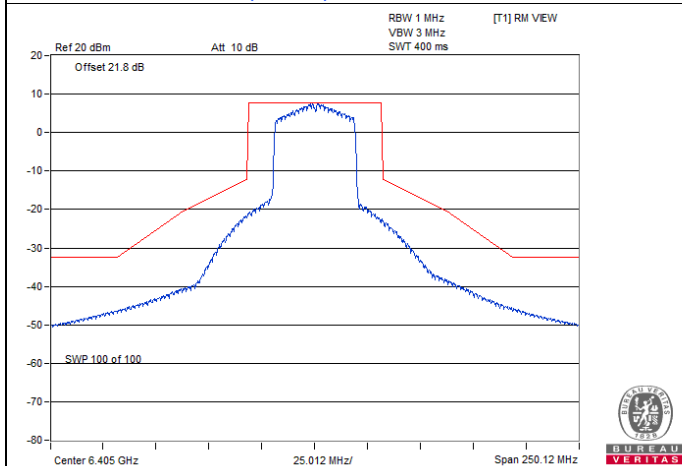
Spectrum Plot



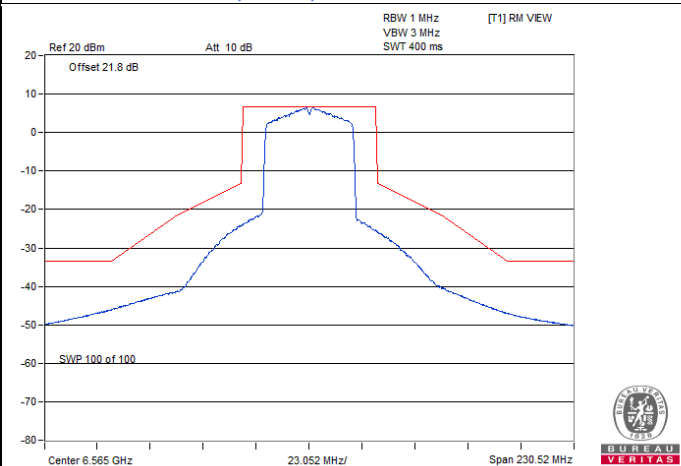
802.11ax (HE40) 2T1S / Chain 1 : CH 3



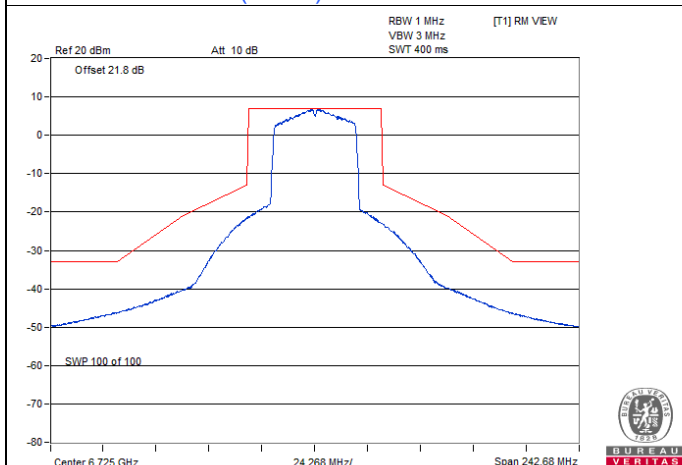
802.11ax (HE40) 2T1S / Chain 1 : CH 43



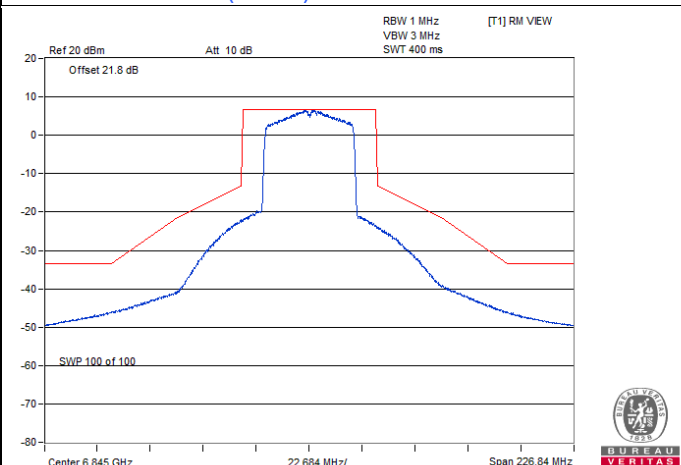
802.11ax (HE40) 2T1S / Chain 1 : CH 91



802.11ax (HE40) 2T1S / Chain 1 : CH 123



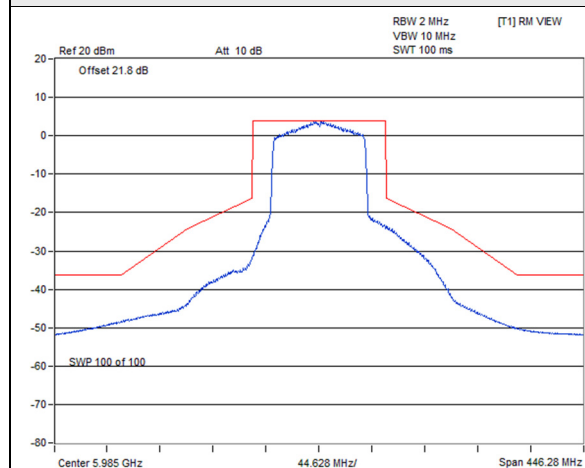
802.11ax (HE40) 2T1S / Chain 1 : CH 155



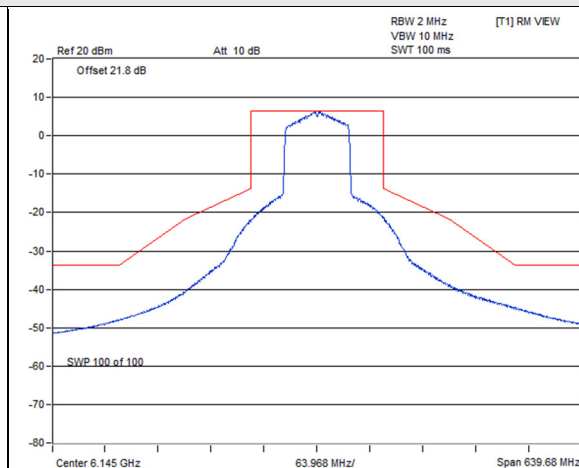
802.11ax (HE40) 2T1S / Chain 1 : CH 179

802.11ax (HE80) 2T1S

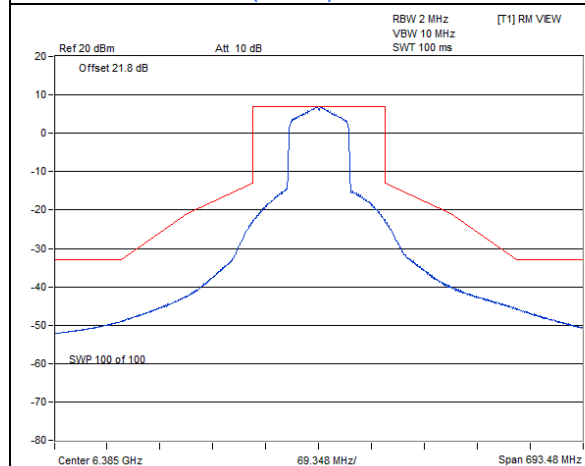
Spectrum Plot



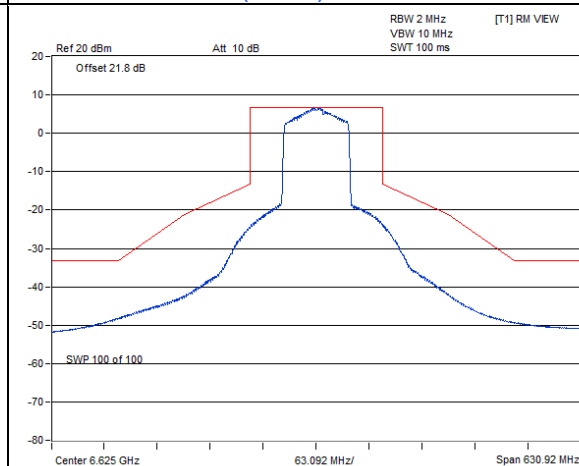
802.11ax (HE80) 2T1S / Chain 0 : CH 7



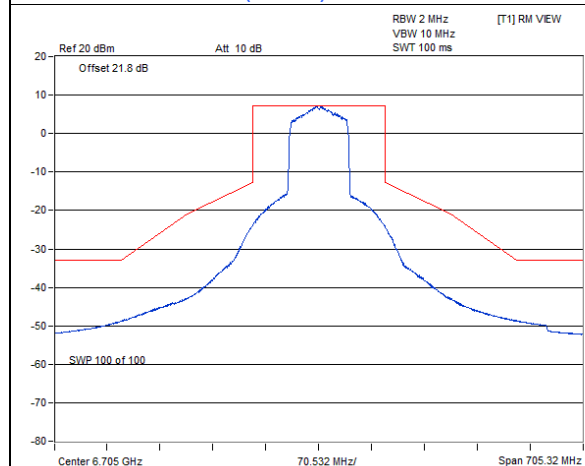
802.11ax (HE80) 2T1S / Chain 0 : CH 39



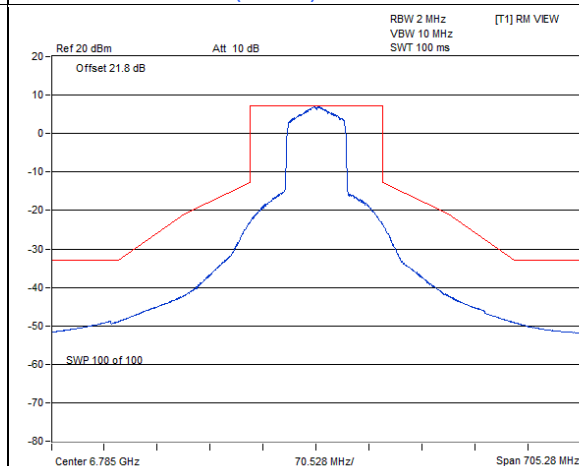
802.11ax (HE80) 2T1S / Chain 0 : CH 87



802.11ax (HE80) 2T1S / Chain 0 : CH 135

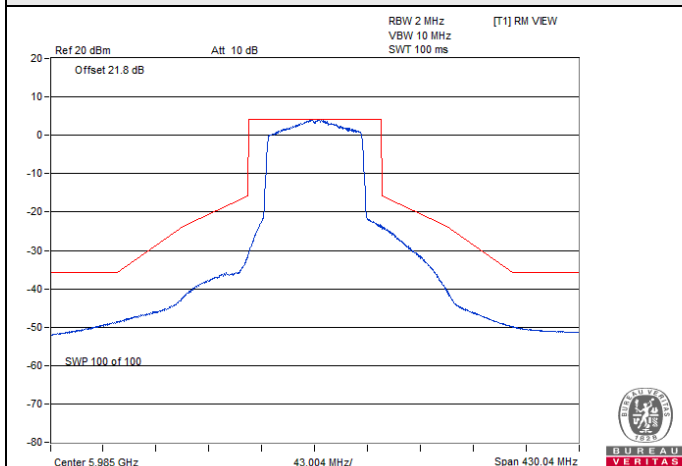


802.11ax (HE80) 2T1S / Chain 0 : CH 151

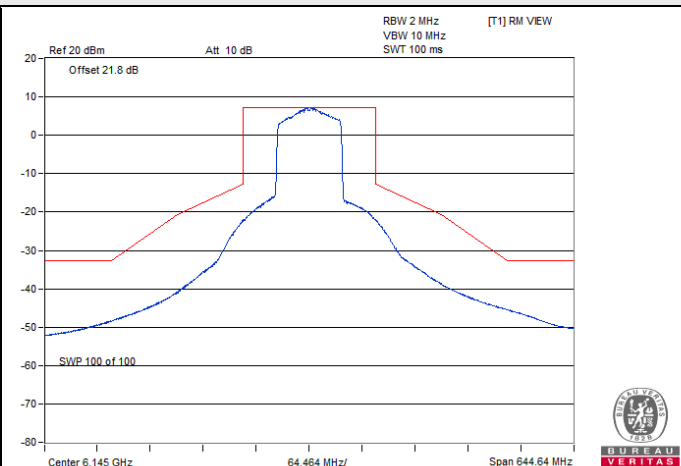


802.11ax (HE80) 2T1S / Chain 0 : CH 167

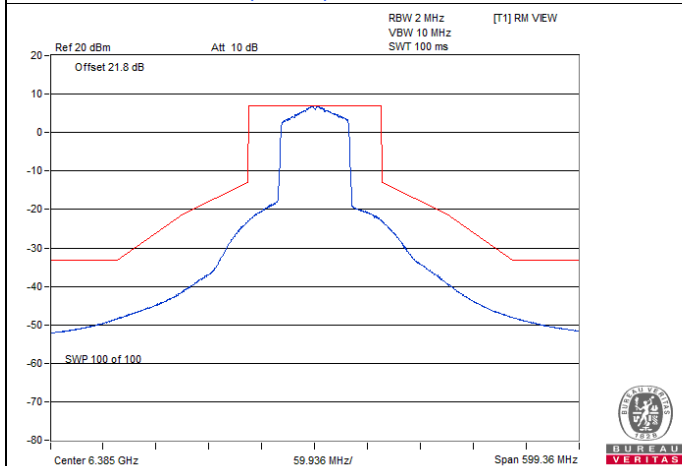
Spectrum Plot



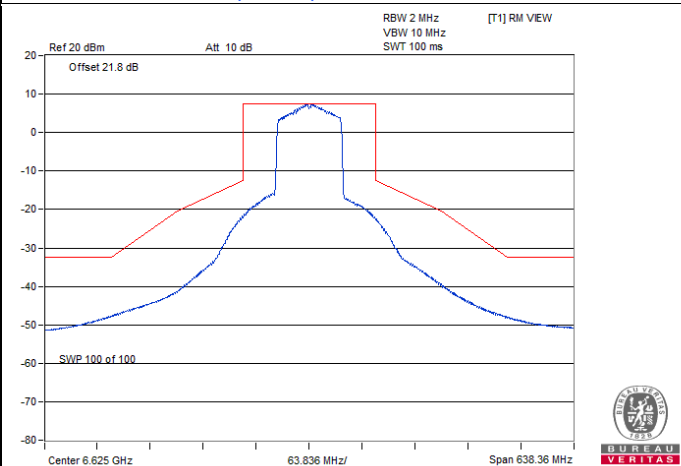
802.11ax (HE80) 2T1S / Chain 1 : CH 7



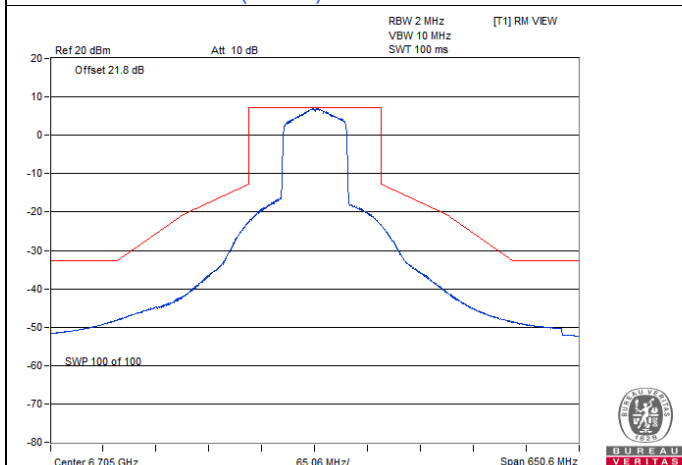
802.11ax (HE80) 2T1S / Chain 1 : CH 39



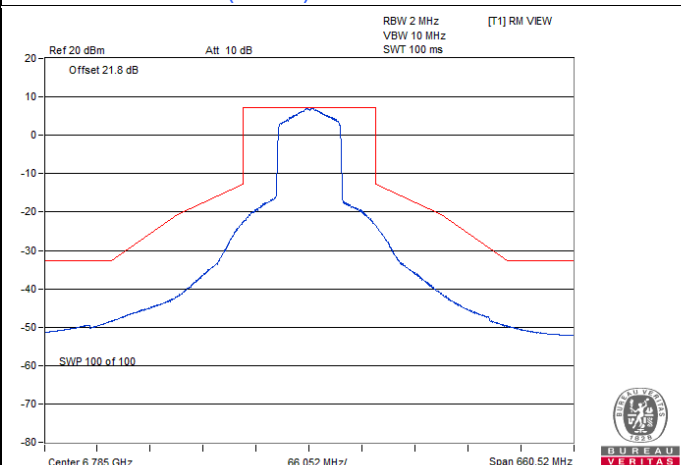
802.11ax (HE80) 2T1S / Chain 1 : CH 87



802.11ax (HE80) 2T1S / Chain 1 : CH 135



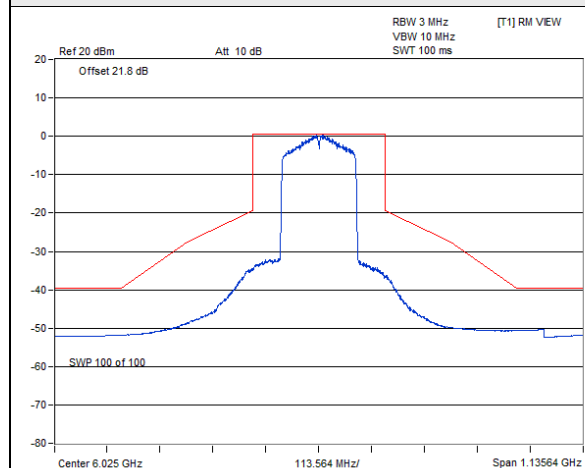
802.11ax (HE80) 2T1S / Chain 1 : CH 151



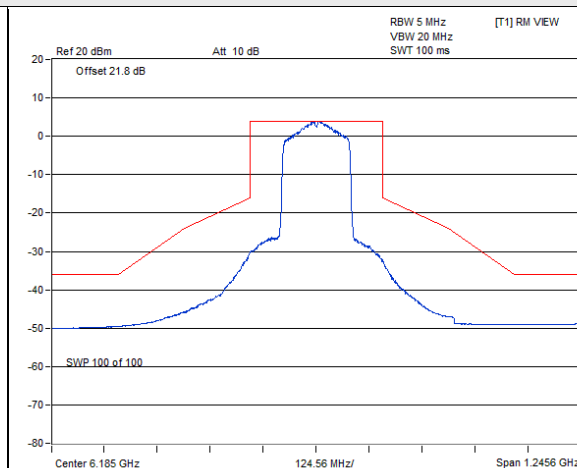
802.11ax (HE80) 2T1S / Chain 1 : CH 167

802.11ax (HE160) 2T1S

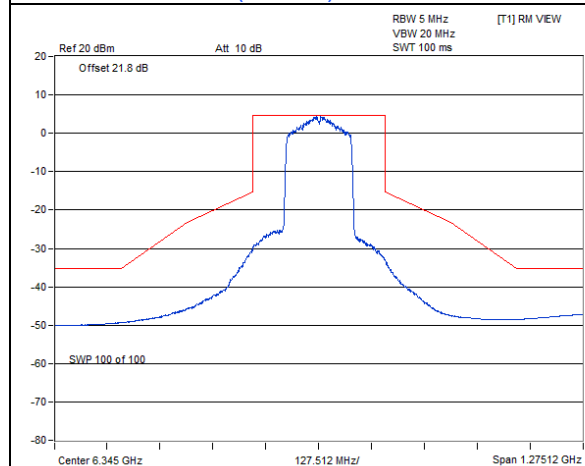
Spectrum Plot



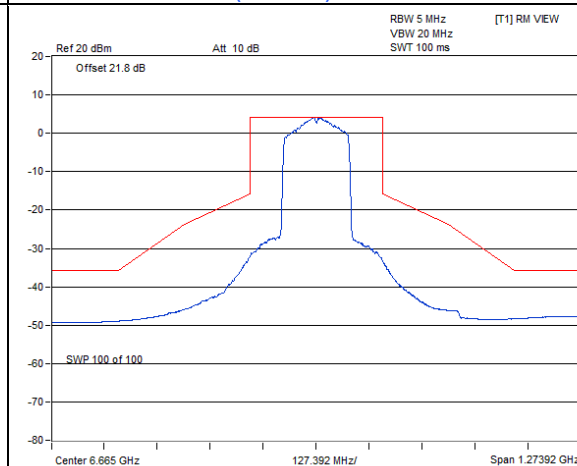
802.11ax (HE160) 2T1S / Chain 0 : CH 15



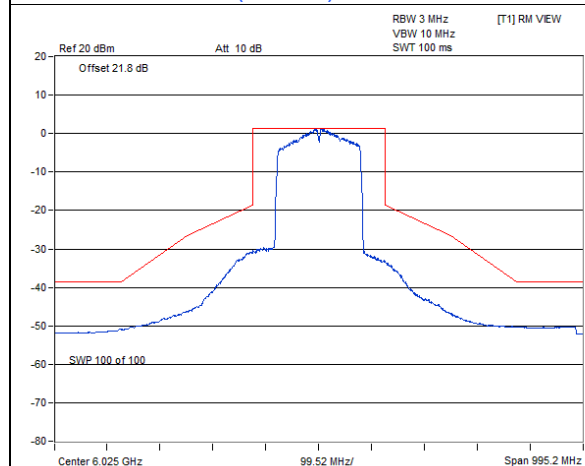
802.11ax (HE160) 2T1S / Chain 0 : CH 47



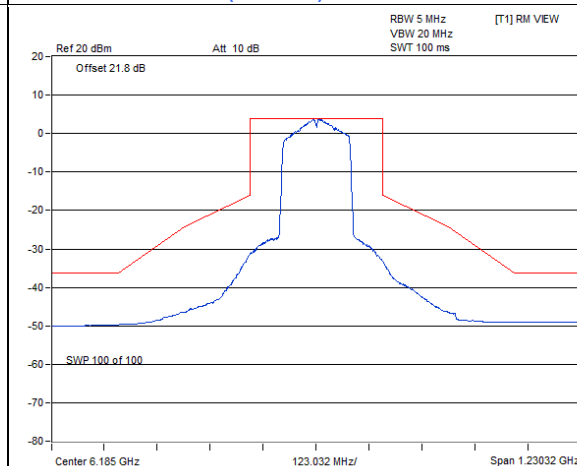
802.11ax (HE160) 2T1S / Chain 0 : CH 79



802.11ax (HE160) 2T1S / Chain 0 : CH 143

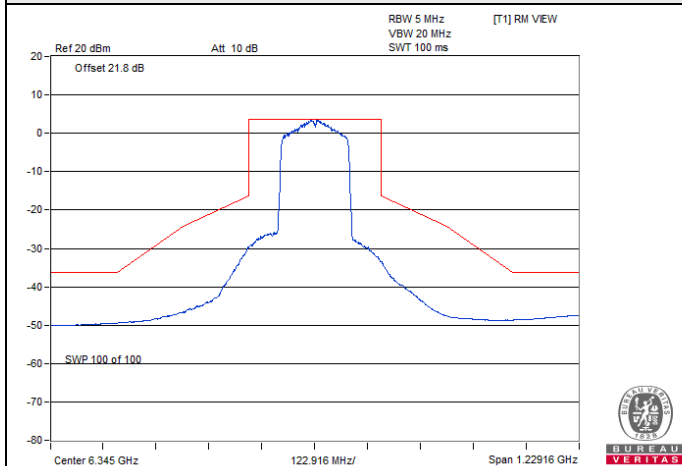


802.11ax (HE160) 2T1S / Chain 1 : CH 15

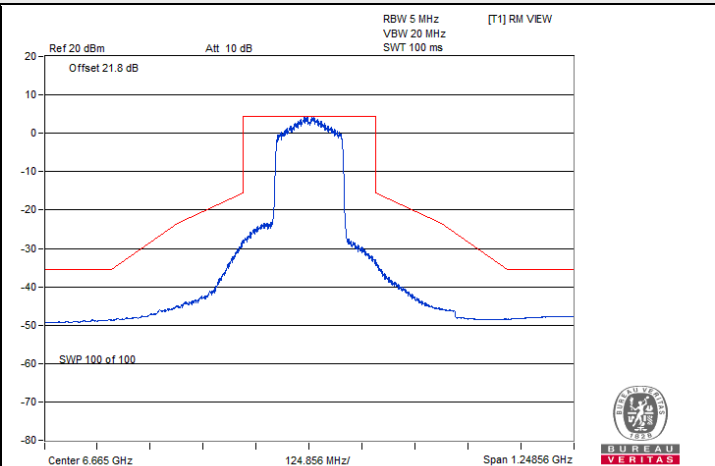


802.11ax (HE160) 2T1S / Chain 1 : CH 47

Spectrum Plot



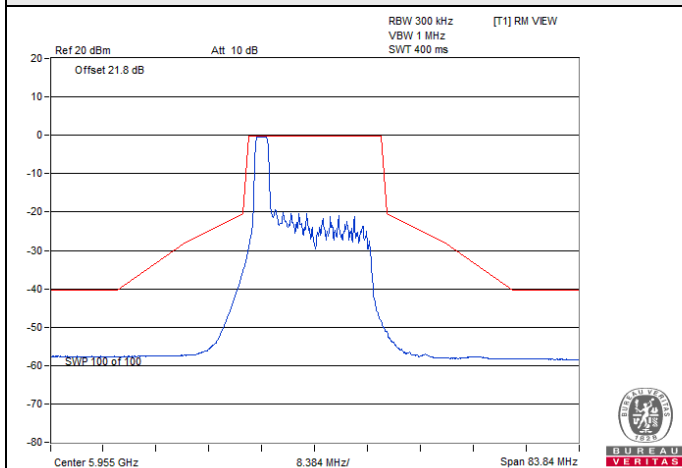
802.11ax (HE160) 2T1S / Chain 1 : CH 79



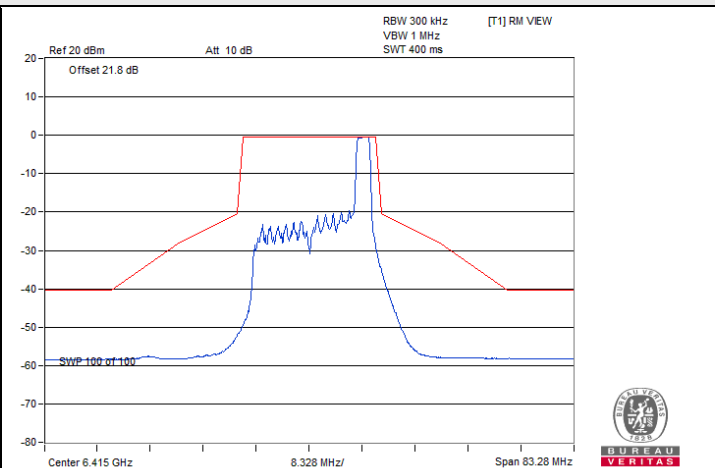
802.11ax (HE160) 2T1S / Chain 1 : CH 143

802.11ax (HE20) 26-tone RU 2T1S

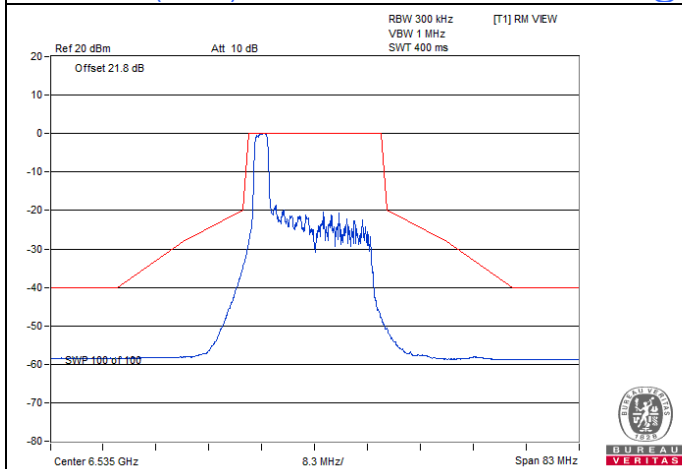
Spectrum Plot



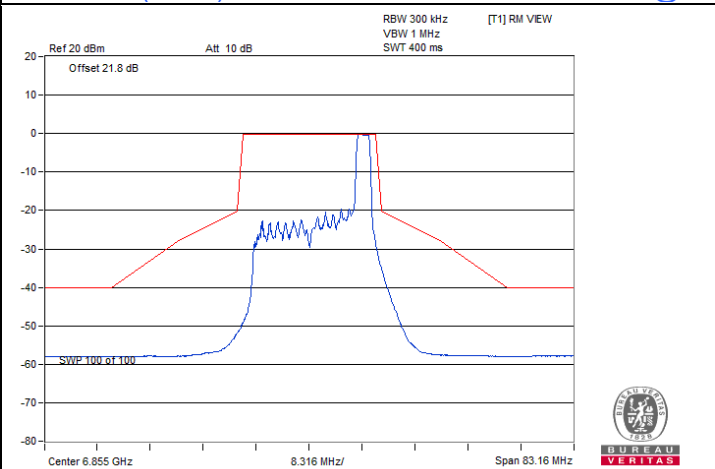
802.11ax (HE20) 26-tone RU 2T1S / Chain 0 : CH 1@0



802.11ax (HE20) 26-tone RU 2T1S / Chain 0 : CH 93@8

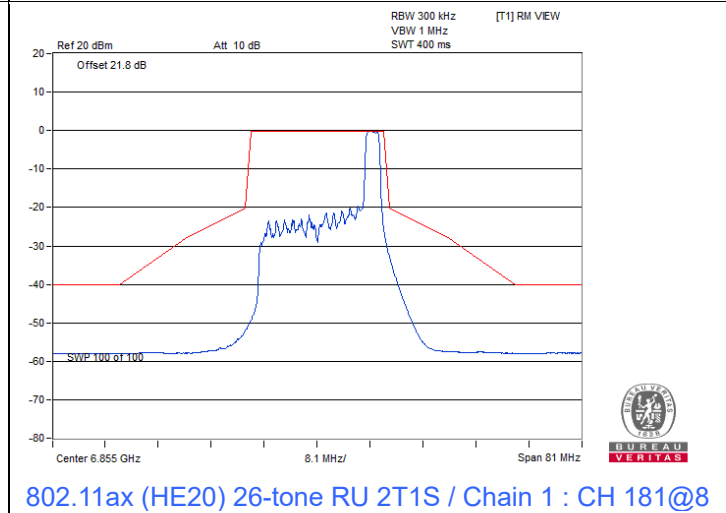
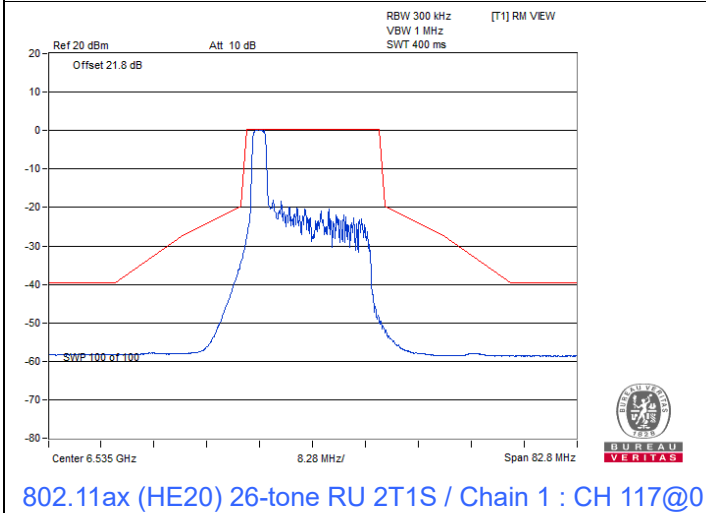
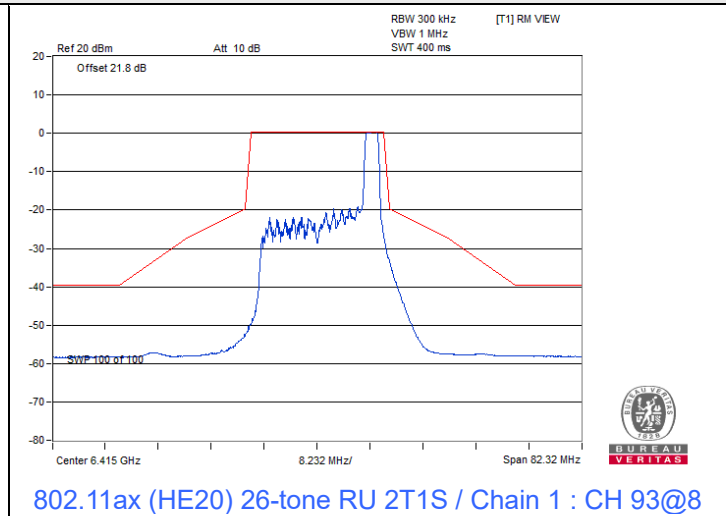
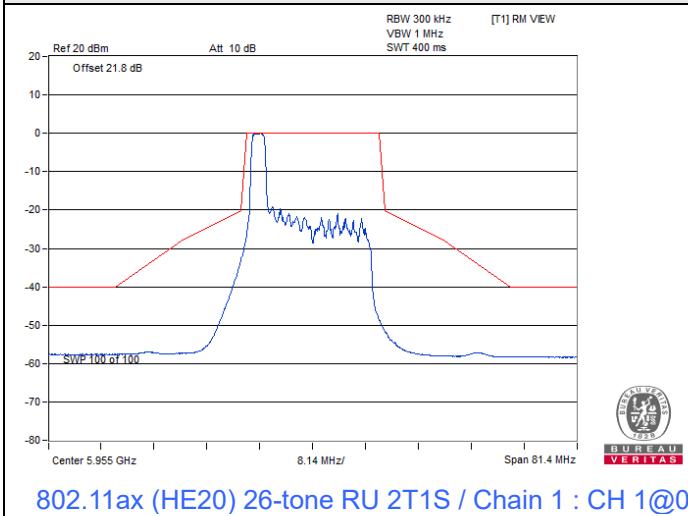


802.11ax (HE20) 26-tone RU 2T1S / Chain 0 : CH 117@0



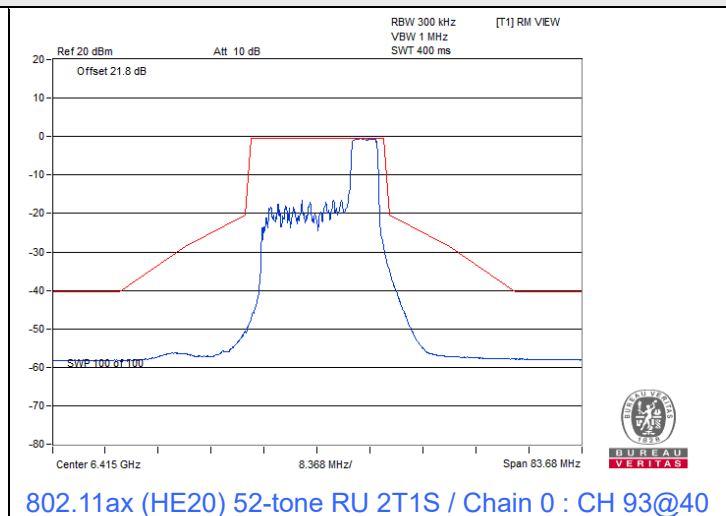
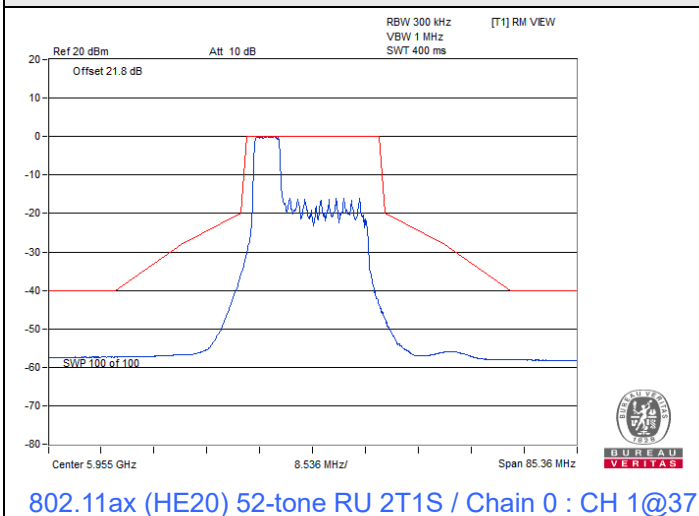
802.11ax (HE20) 26-tone RU 2T1S / Chain 0 : CH 181@8

Spectrum Plot

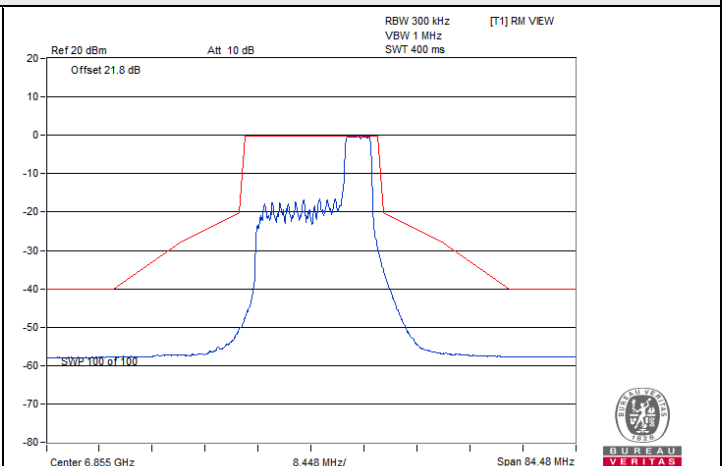
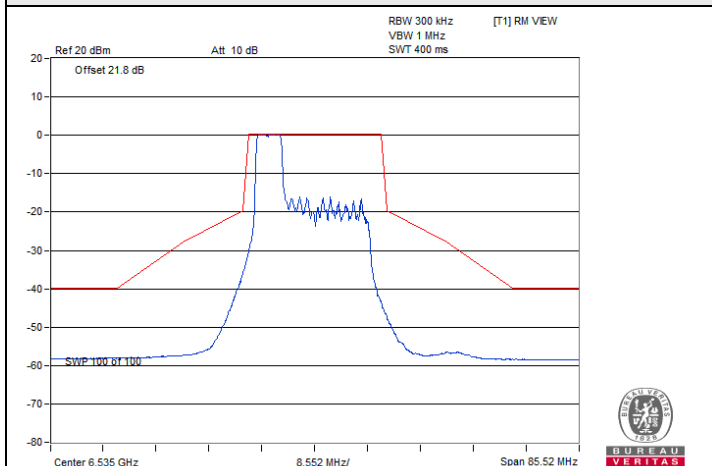


802.11ax (HE20) 52-tone RU 2T1S

Spectrum Plot

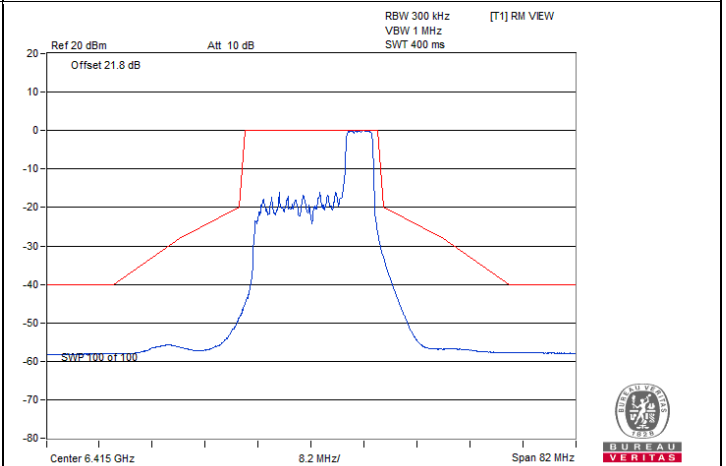
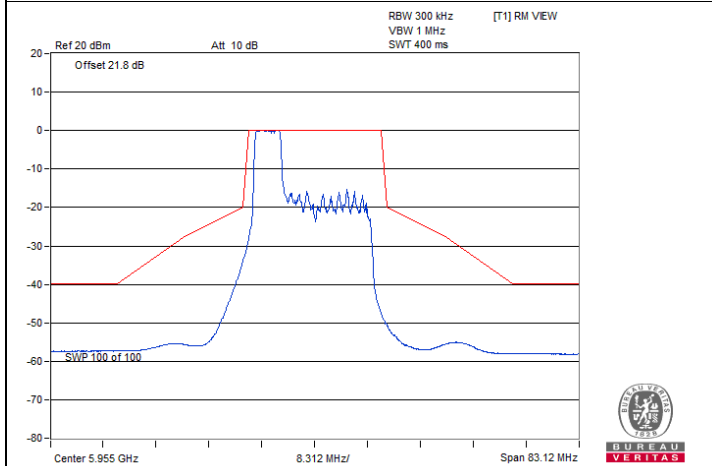


Spectrum Plot



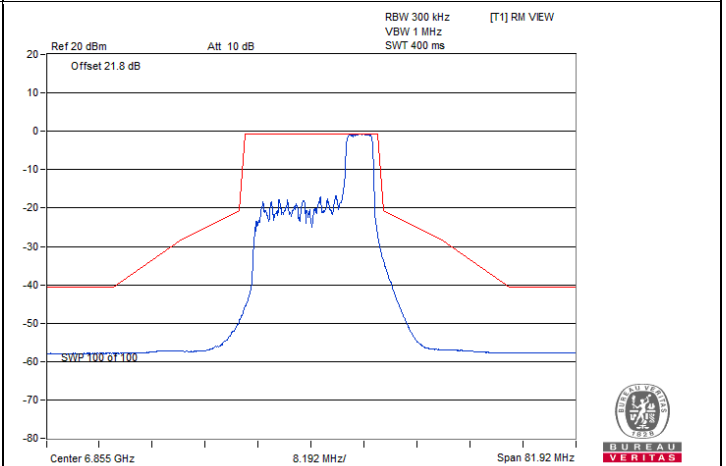
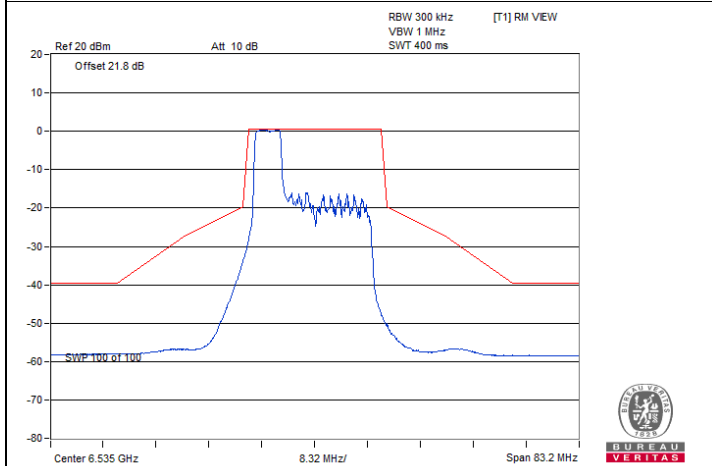
802.11ax (HE20) 52-tone RU 2T1S / Chain 0 : CH 117@37

802.11ax (HE20) 52-tone RU 2T1S / Chain 0 : CH 181@40



802.11ax (HE20) 52-tone RU 2T1S / Chain 1 : CH 1@37

802.11ax (HE20) 52-tone RU 2T1S / Chain 1 : CH 93@40

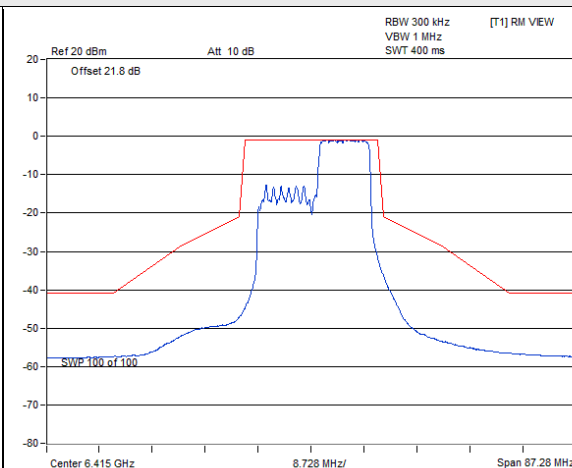
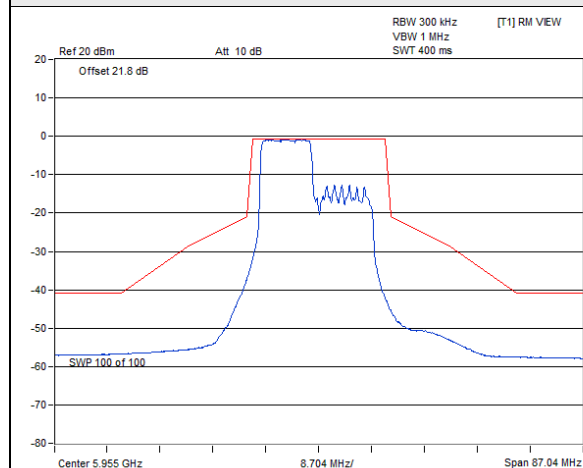


802.11ax (HE20) 52-tone RU 2T1S / Chain 1 : CH 117@37

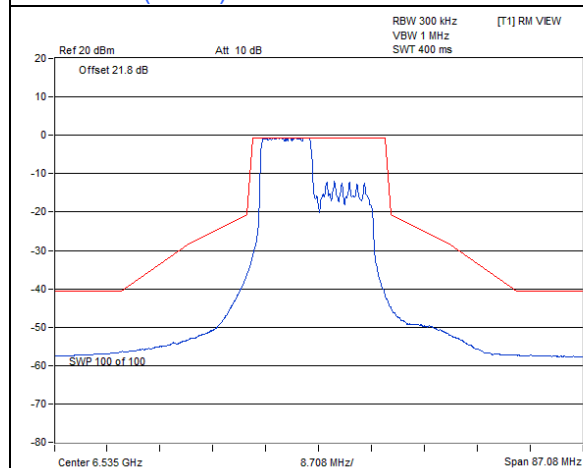
802.11ax (HE20) 52-tone RU 2T1S / Chain 1 : CH 181@40

802.11ax (HE20) 106-tone RU 2T1S

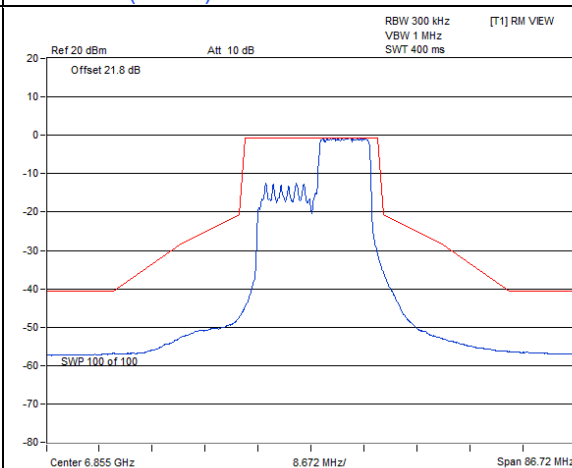
Spectrum Plot



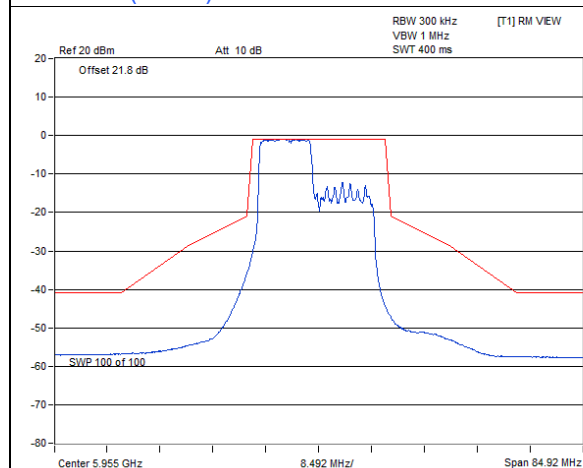
802.11ax (HE20) 106-tone RU 2T1S / Chain 0 : CH 1@53



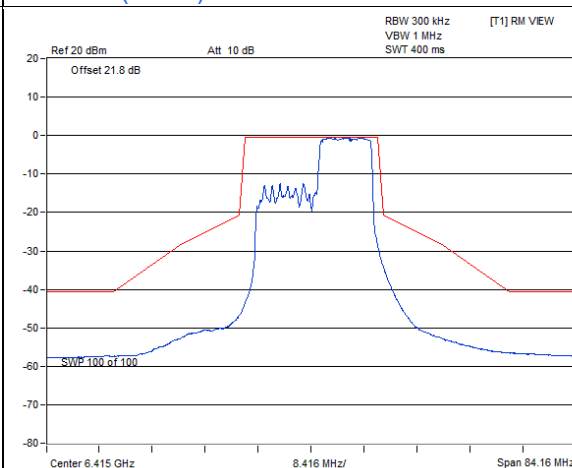
802.11ax (HE20) 106-tone RU 2T1S / Chain 0 : CH 93@54



802.11ax (HE20) 106-tone RU 2T1S / Chain 0 : CH 117@53



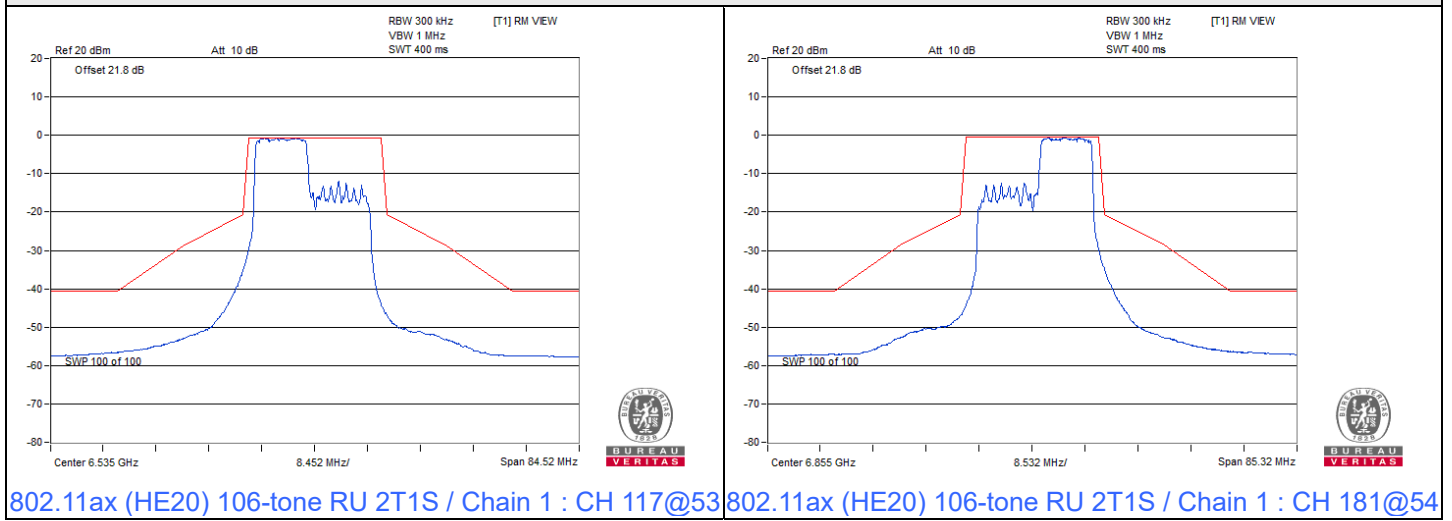
802.11ax (HE20) 106-tone RU 2T1S / Chain 0 : CH 181@54



802.11ax (HE20) 106-tone RU 2T1S / Chain 1 : CH 1@53

802.11ax (HE20) 106-tone RU 2T1S / Chain 1 : CH 93@54

Spectrum Plot



7.5 Occupied Bandwidth

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
--------------	---------	---------------------------	--------------	------------	-----------

802.11a 1TX

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
1	5955	41
45	6175	51.2
93	6415	32.2
117	6535	34.4
149	6695	32.6
181	6855	34.4

802.11ax (HE160) 1T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
15	6025	157.44
47	6185	242.88
79	6345	241.92
143	6665	250.56

802.11a 2TX

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
1	5955	17.39	17.22
45	6175	16.80	16.56
93	6415	16.80	16.56
117	6535	16.80	16.56
149	6695	16.80	16.56
181	6855	16.80	16.56

802.11ax (HE20) 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
1	5955	19.32	19.32
45	6175	18.96	19.08
93	6415	19.08	18.96
117	6535	18.96	19.08
149	6695	19.08	18.96
181	6855	18.96	19.20

802.11ax (HE40) 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
3	5965	39.36	38.16
43	6165	39.84	38.40
91	6405	38.40	38.40
123	6565	38.40	38.16
155	6725	38.40	38.16
179	6845	38.40	38.40

802.11ax (HE80) 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
7	5985	77.28	77.28
39	6145	77.76	77.76
87	6385	77.76	77.76
135	6625	77.76	77.76
151	6705	77.76	78.24
167	6785	77.76	78.72

802.11ax (HE160) 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
15	6025	157.44	156.48
47	6185	158.40	165.12
79	6345	165.12	160.32
143	6665	159.36	183.36

802.11ax (HE20) 26-tone RU 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
1	5955	18.70	18.52
93	6415	18.60	18.48
117	6535	18.72	18.60
181	6855	18.72	18.36

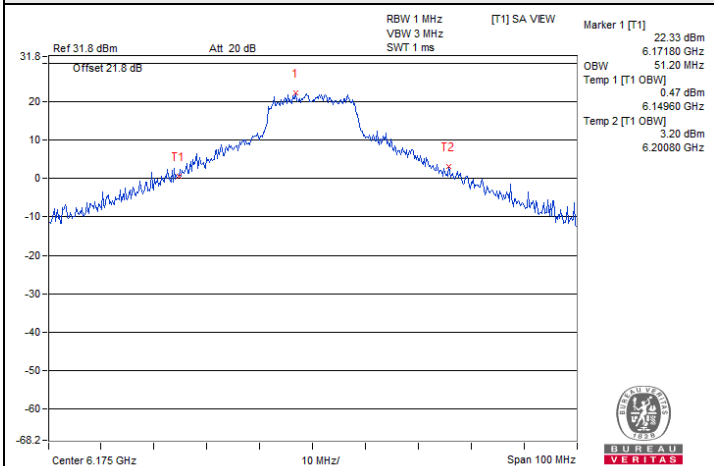
802.11ax (HE20) 52-tone RU 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
1	5955	18.44	18.26
93	6415	18.36	18.24
117	6535	18.36	18.24
181	6855	18.36	18.36

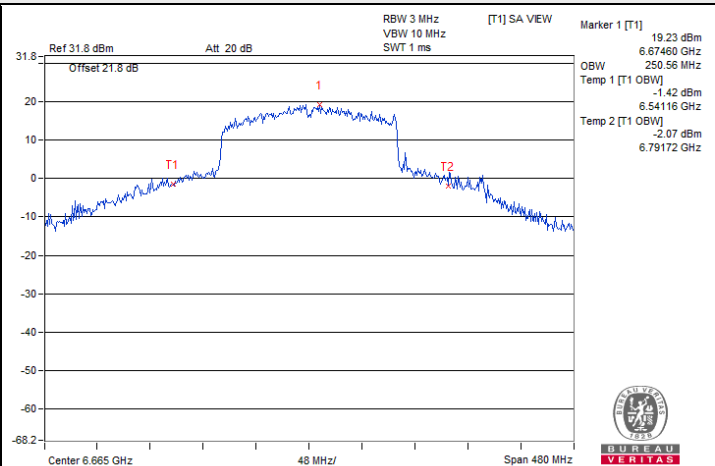
802.11ax (HE20) 106-tone RU 2T1S

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
1	5955	18.44	18.26
93	6415	18.48	18.36
117	6535	18.48	18.24
181	6855	18.36	18.36

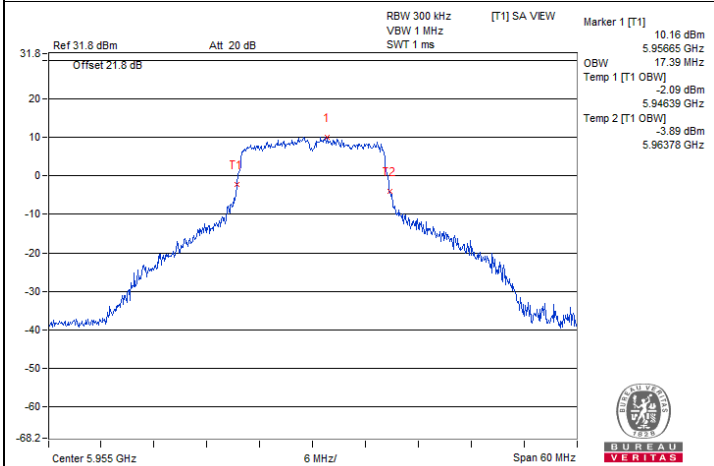
Spectrum Plot of Maximum Value



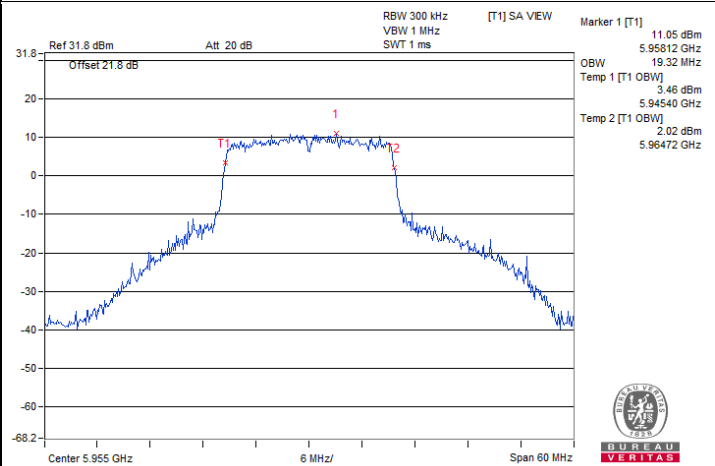
802.11a 1TX : CH 45



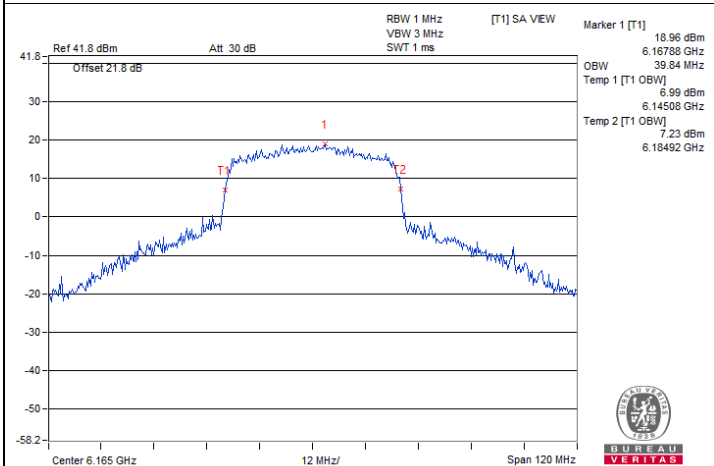
802.11ax (HE160) 1T1S : CH 143



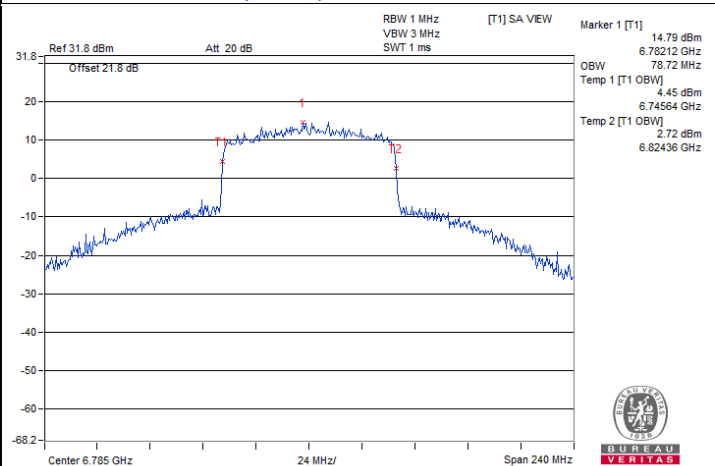
802.11a 2TX / Chain 0 : CH 1



802.11ax (HE20) 2T1S / Chain 0 : CH 1

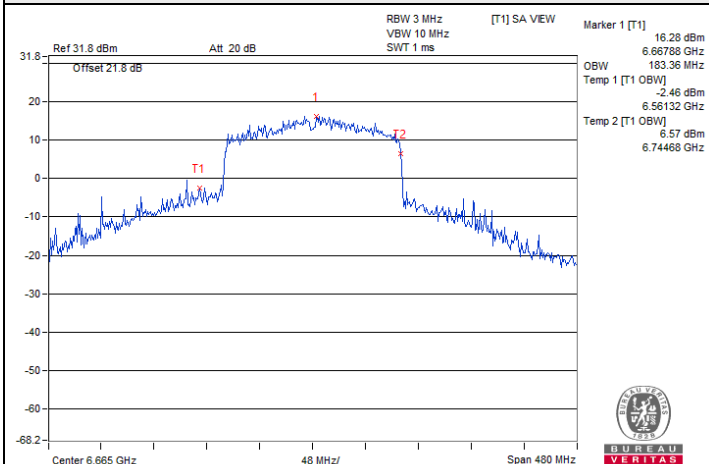


802.11ax (HE40) 2T1S / Chain 0 : CH 43

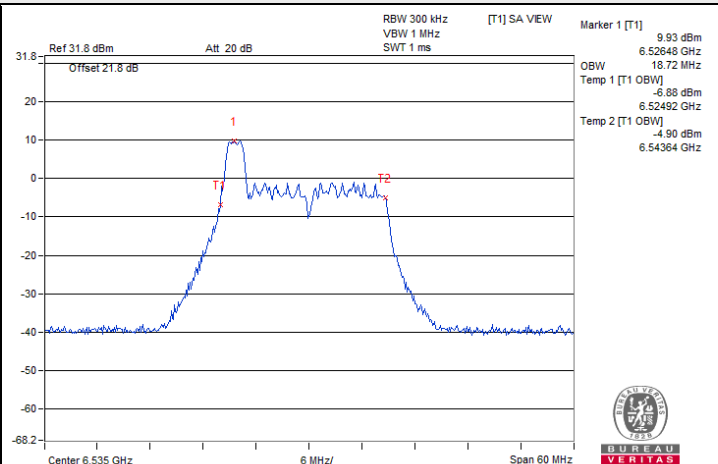


802.11ax (HE80) 2T1S / Chain 1 : CH 167

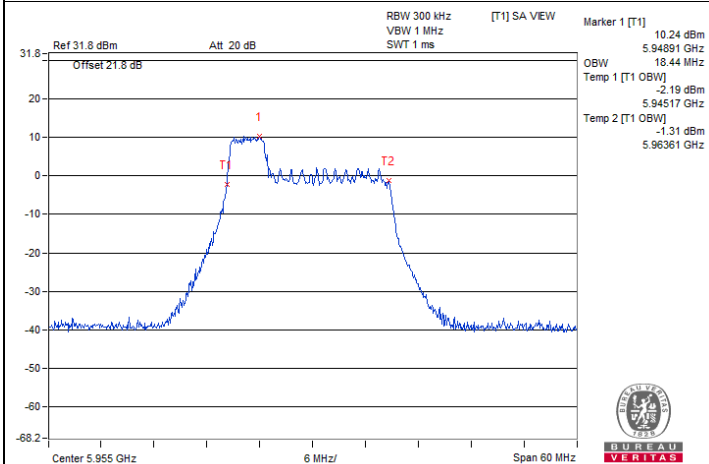
Spectrum Plot of Maximum Value



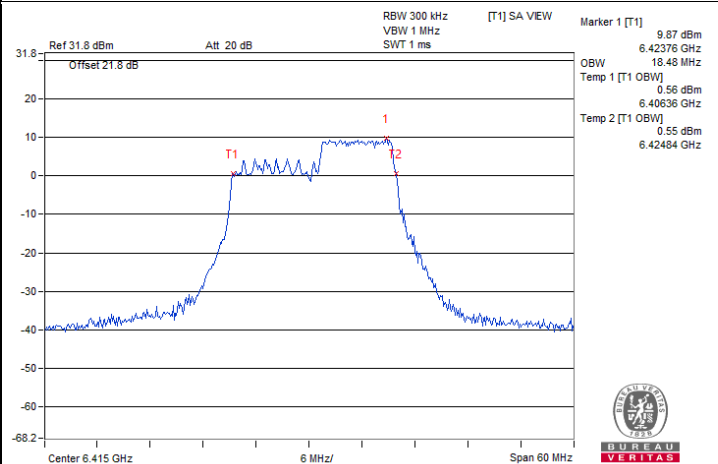
802.11ax (HE160) 2T1S / Chain 1 : CH 143



802.11ax (HE20) 26-tone RU 2T1S / Chain 0 : CH 117@0



802.11ax (HE20) 52-tone RU 2T1S / Chain 0 : CH 1@37



802.11ax (HE20) 106-tone RU 2T1S / Chain 0 : CH 93@54

7.6 Frequency Stability

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 65% RH	Tested By:	Katina Lu
--------------	---------	---------------------------	--------------	------------	-----------

802.11a

Frequency Stability Versus Temperature									
Operating Frequency: 5955 MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
70	3.3	5954.9902	Pass	5954.9888	Pass	5954.9912	Pass	5954.9901	Pass
60	3.3	5954.9744	Pass	5954.9756	Pass	5954.9736	Pass	5954.9736	Pass
50	3.3	5955.0291	Pass	5955.0263	Pass	5955.0288	Pass	5955.0303	Pass
40	3.3	5954.9826	Pass	5954.9786	Pass	5954.9814	Pass	5954.9819	Pass
30	3.3	5954.9846	Pass	5954.9843	Pass	5954.9836	Pass	5954.9797	Pass
20	3.3	5954.976	Pass	5954.9785	Pass	5954.9754	Pass	5954.976	Pass
10	3.3	5954.9989	Pass	5954.9993	Pass	5954.995	Pass	5954.9975	Pass
0	3.3	5954.9994	Pass	5955.0006	Pass	5955	Pass	5954.9974	Pass
-10	3.3	5955.0095	Pass	5955.0059	Pass	5955.0081	Pass	5955.0074	Pass

Frequency Stability Versus Voltage									
Operating Frequency: 5955 MHz									
Temp. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result	Measured Frequency (MHz)	Test Result
20	3.795	5954.9713	Pass	5954.9723	Pass	5954.9724	Pass	5954.9722	Pass
	3.3	5954.976	Pass	5954.9785	Pass	5954.9754	Pass	5954.976	Pass
	2.805	5954.9735	Pass	5954.9727	Pass	5954.9735	Pass	5954.971	Pass

7.7 Contention-based Protocol

Mode C

Input Power:	120 Vac, 60 Hz	Environmental Conditions:	25°C, 60% RH	Tested By:	Tobey Chen
--------------	----------------	---------------------------	--------------	------------	------------

For U-NII-5

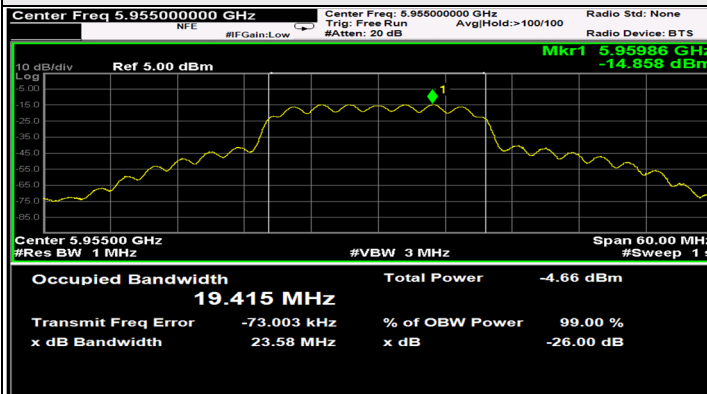
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	1	5955	5955	-82	-13.92	0	-68.08	-62	OFF
					-82.5	-13.92	0	-68.58	-62	Minimal
					-95.92	-13.92	0	-82	-62	ON
	160	15	6025	5950	-82	-13.92	0	-68.08	-62	OFF
					-82.5	-13.92	0	-68.58	-62	Minimal
					-95.92	-13.92	0	-82	-62	ON
				6025	-82	-13.92	0	-68.08	-62	OFF
					-82.5	-13.92	0	-68.58	-62	Minimal
					-95.92	-13.92	0	-82	-62	ON
				6100	-82	-13.92	0	-68.08	-62	OFF
					-82.5	-13.92	0	-68.58	-62	Minimal
					-95.92	-13.92	0	-82	-62	ON

Notes:

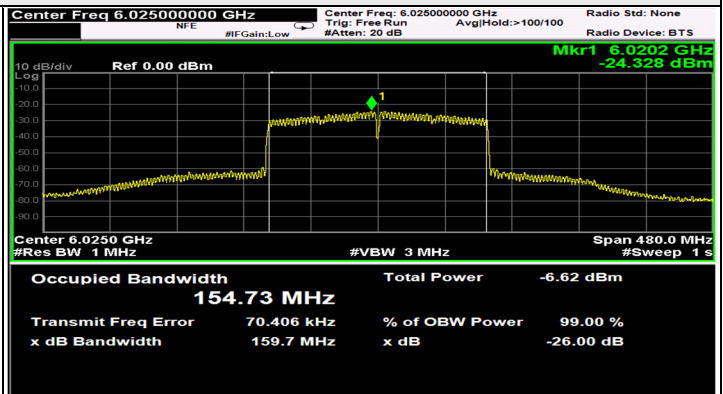
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	5955	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	5950	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6025	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6100	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

Plots of EUT Tx waveform

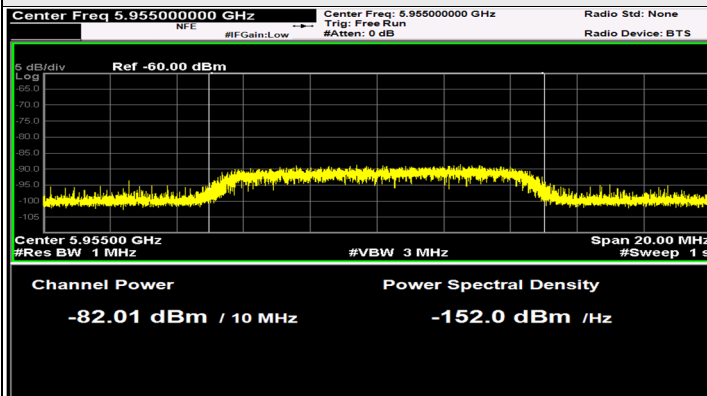


802.11ax (HE20) / CH1

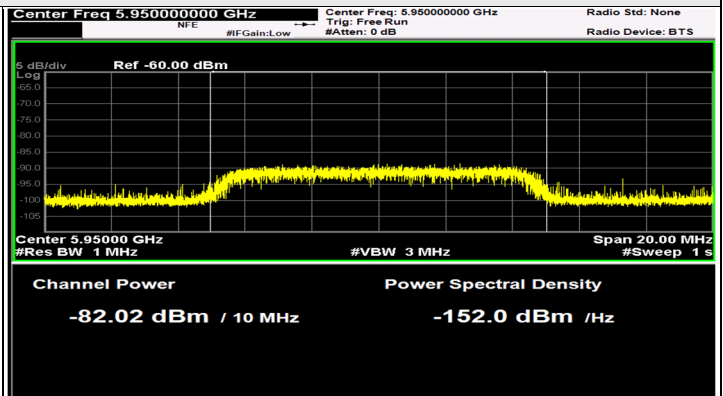


802.11ax (HE160) / CH15

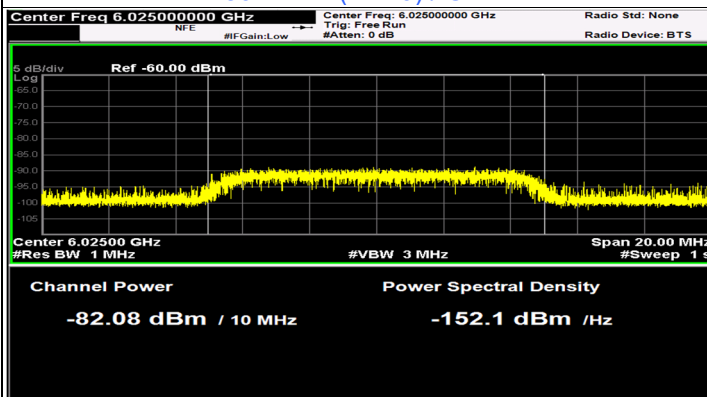
Plots of Injected signal (AWGN) level



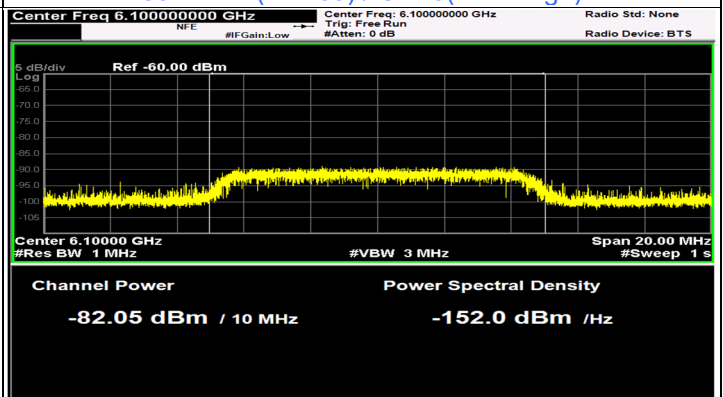
802.11ax (HE20) / CH1



802.11ax (HE160) / CH15(Low Edge)

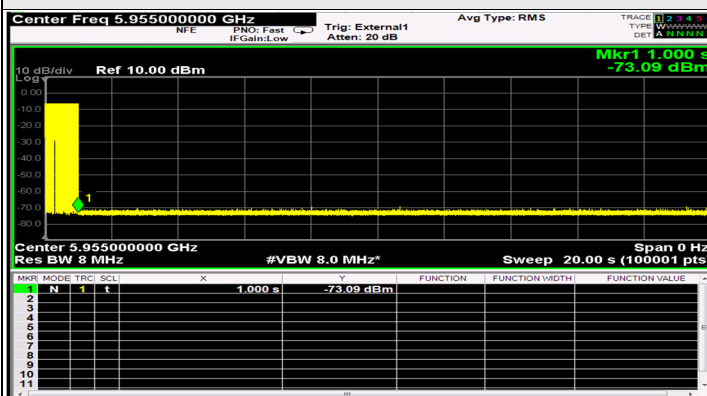


802.11ax (HE160) / CH15(Middle)

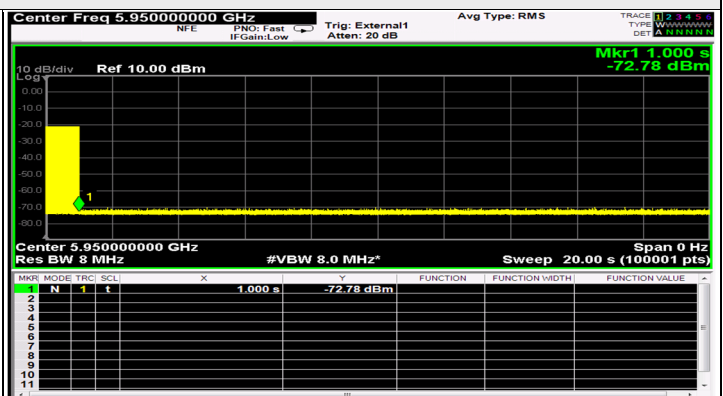


802.11ax (HE160) / CH15(High Edge)

Plots of EUT ceased transmission in the time domain

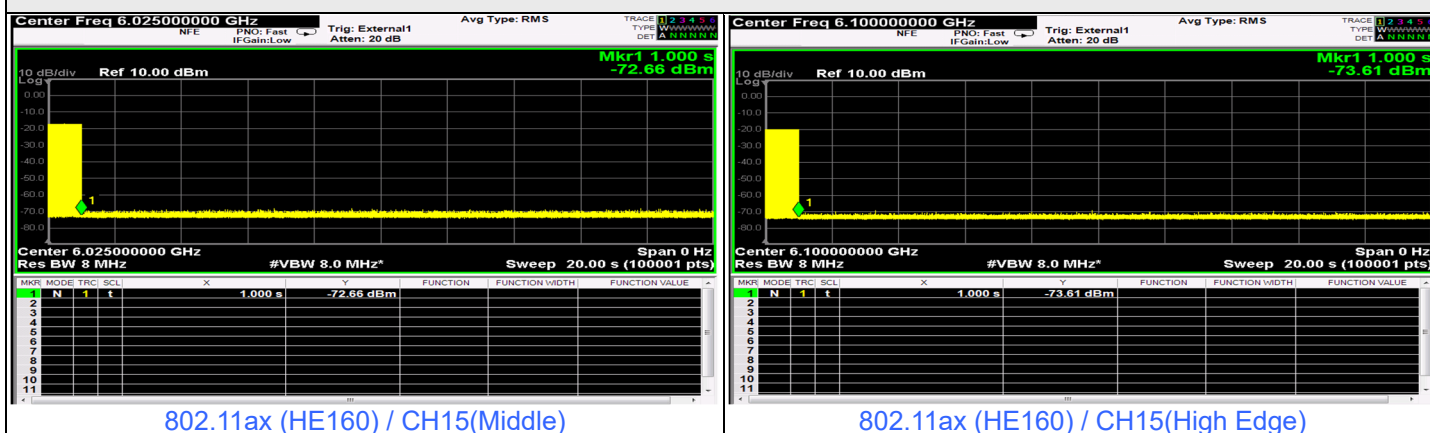


802.11ax (HE20) / CH1



802.11ax (HE160) / CH15(Low Edge)

Plots of EUT ceased transmission in the time domain



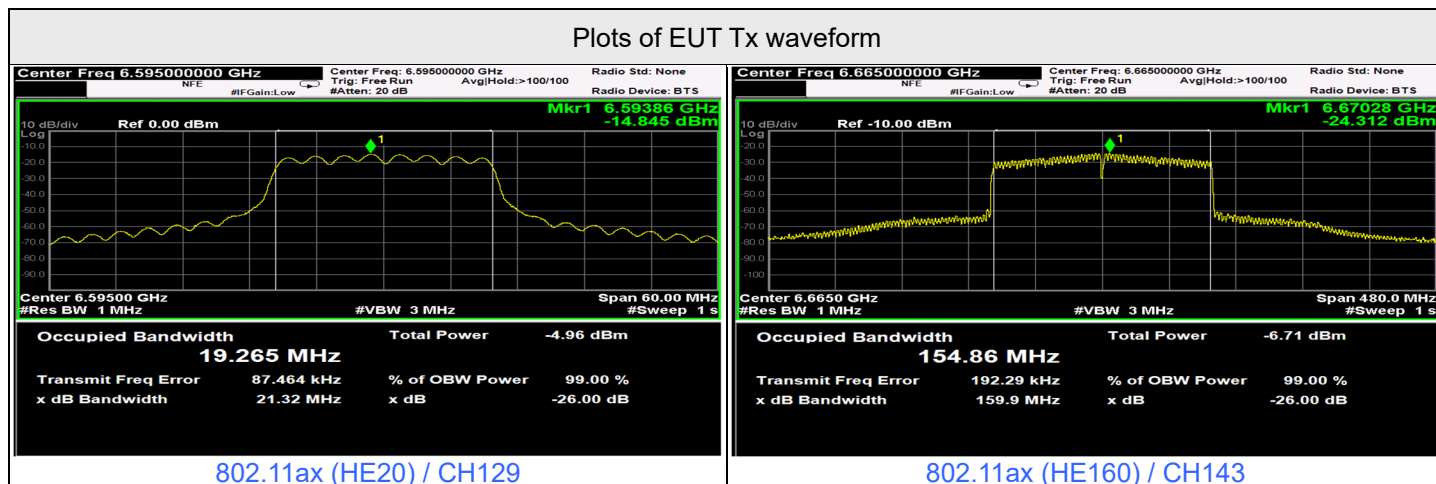
For U-NII-7

Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	129	6595	6595	-82	-13.91	0	-68.09	-62	OFF
					-82.5	-13.91	0	-68.59	-62	Minimal
					-95.91	-13.91	0	-82	-62	ON
	160	143	6665	6590	-82	-13.91	0	-68.09	-62	OFF
					-82.5	-13.91	0	-68.59	-62	Minimal
					-95.91	-13.91	0	-82	-62	ON
				6665	-82	-13.91	0	-68.09	-62	OFF
					-82.5	-13.91	0	-68.59	-62	Minimal
					-95.91	-13.91	0	-82	-62	ON
				6740	-82	-13.91	0	-68.09	-62	OFF
					-82.5	-13.91	0	-68.59	-62	Minimal
					-95.91	-13.91	0	-82	-62	ON

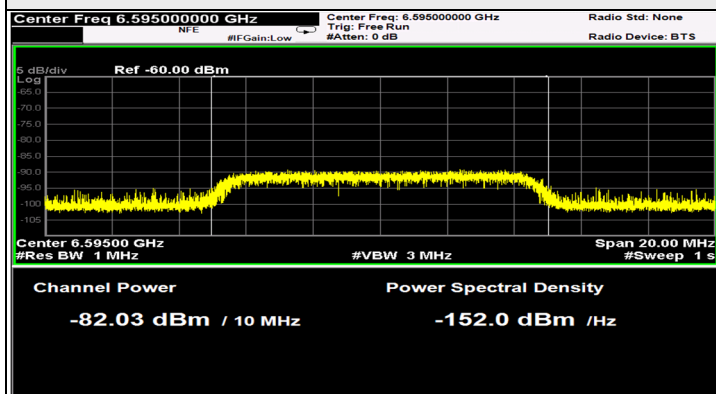
Notes:

1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.

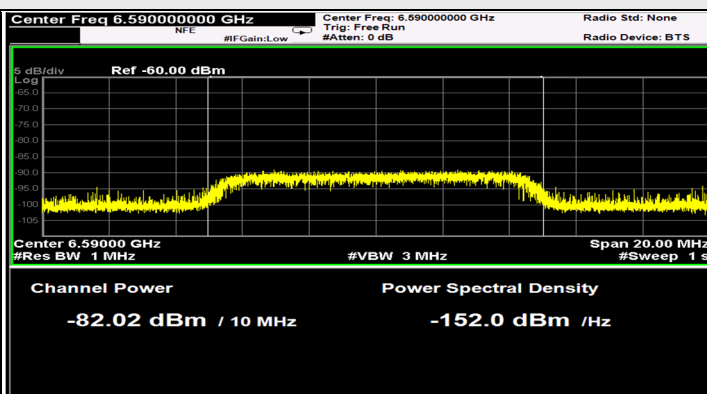
Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6595	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6590	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6665	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6740	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass



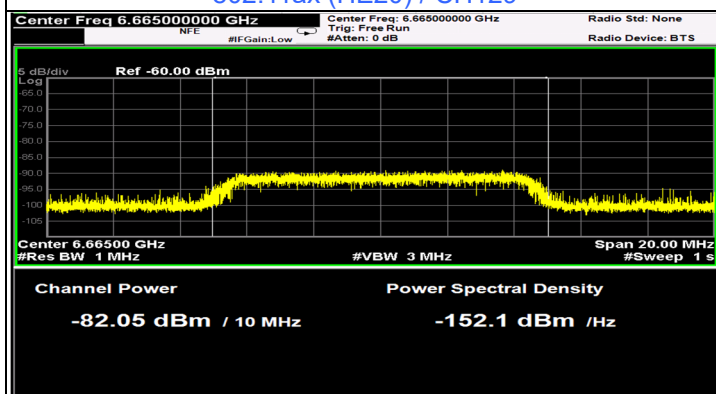
Plots of Injected signal (AWGN) level



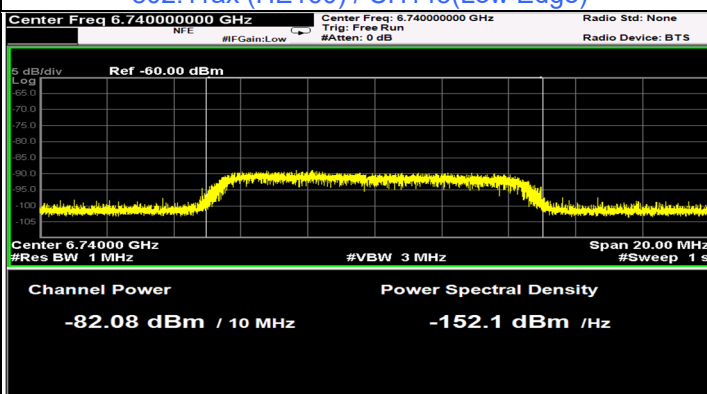
802.11ax (HE20) / CH129



802.11ax (HE160) / CH143(Low Edge)

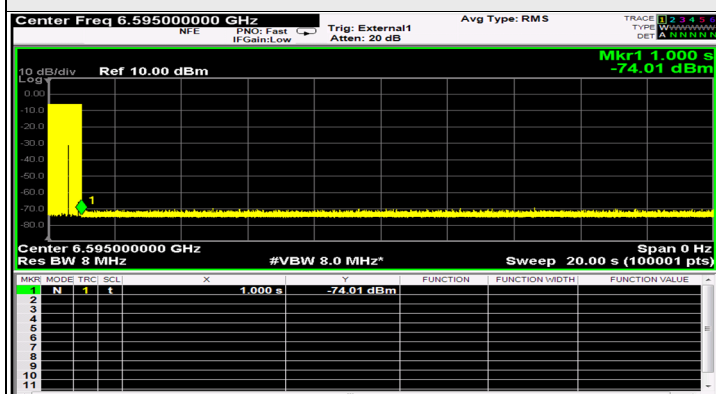


802.11ax (HE160) / CH143(Middle)

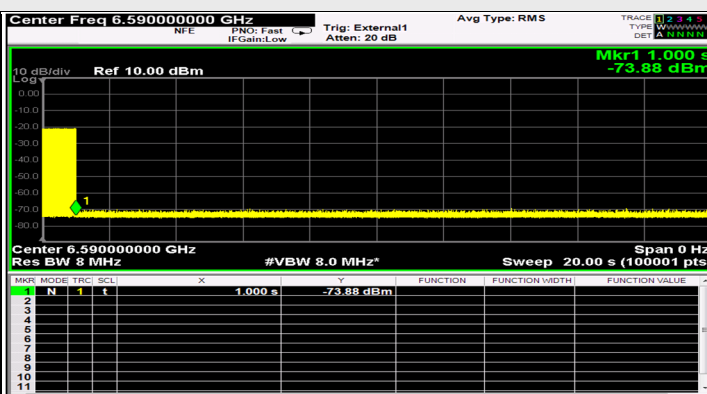


802.11ax (HE160) / CH143(High Edge)

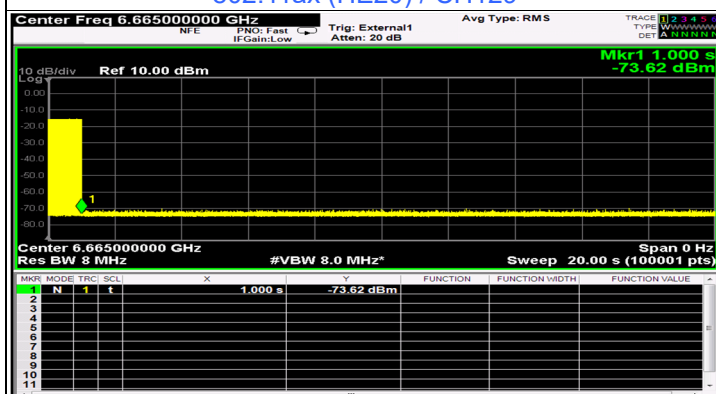
Plots of EUT ceased transmission in the time domain



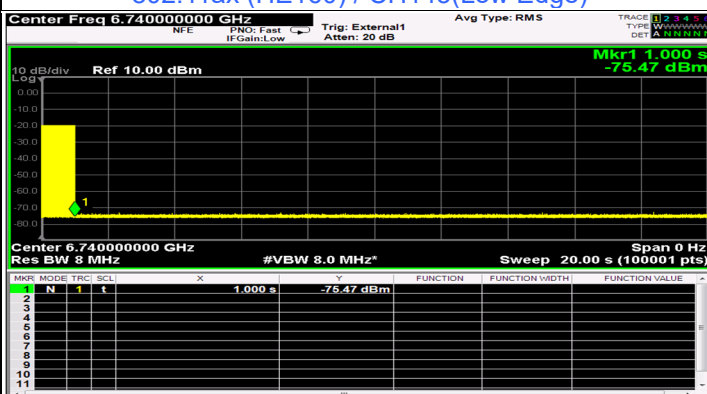
802.11ax (HE20) / CH129



802.11ax (HE160) / CH143(Low Edge)



802.11ax (HE160) / CH143(Middle)



802.11ax (HE160) / CH143(High Edge)

7.8 AC Power Conducted Emissions

Mode A

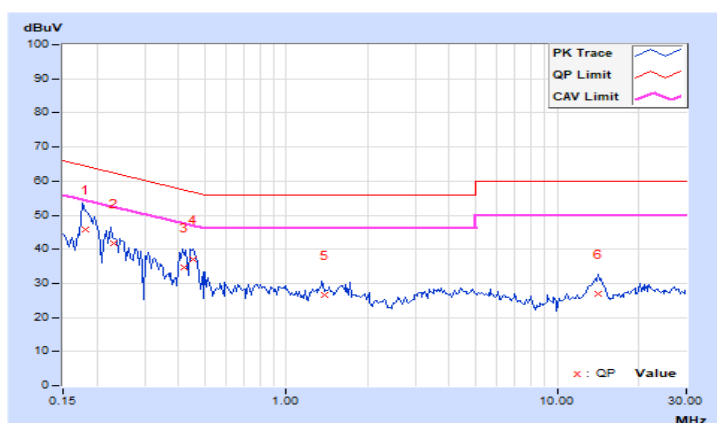
2T1S

RF Mode	802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBUV)		Emission Level (dBUV)		Limit (dBUV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18154	9.97	35.76	21.23	45.73	31.20	64.41	54.41	-18.68	-23.21
2	0.23157	9.97	31.76	19.45	41.73	29.42	62.39	52.39	-20.66	-22.97
3	0.41926	9.98	24.68	19.15	34.66	29.13	57.46	47.46	-22.80	-18.33
4	0.45583	9.98	27.16	18.33	37.14	28.31	56.77	46.77	-19.63	-18.46
5	1.37792	10.03	16.67	12.54	26.70	22.57	56.00	46.00	-29.30	-23.43
6	14.14015	10.70	16.25	8.88	26.95	19.58	60.00	50.00	-33.05	-30.42

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

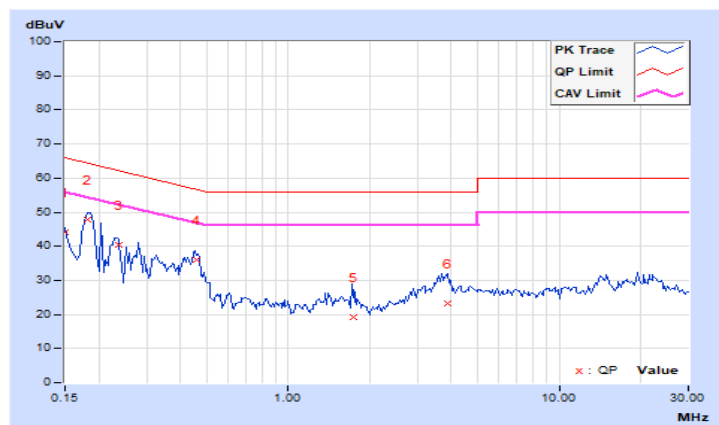


RF Mode	802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.01	33.97	27.13	43.98	37.14	66.00	56.00	-22.02	-18.86
2	0.18225	10.02	37.84	25.76	47.86	35.78	64.38	54.38	-16.52	-18.60
3	0.23715	10.02	30.25	19.74	40.27	29.76	62.20	52.20	-21.93	-22.44
4	0.46150	10.03	26.15	20.31	36.18	30.34	56.67	46.67	-20.49	-16.33
5	1.73971	10.10	9.01	1.26	19.11	11.36	56.00	46.00	-36.89	-34.64
6	3.88152	10.20	12.88	6.54	23.08	16.74	56.00	46.00	-32.92	-29.26

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



7.9 Unwanted Emissions below 1 GHz

Mode A

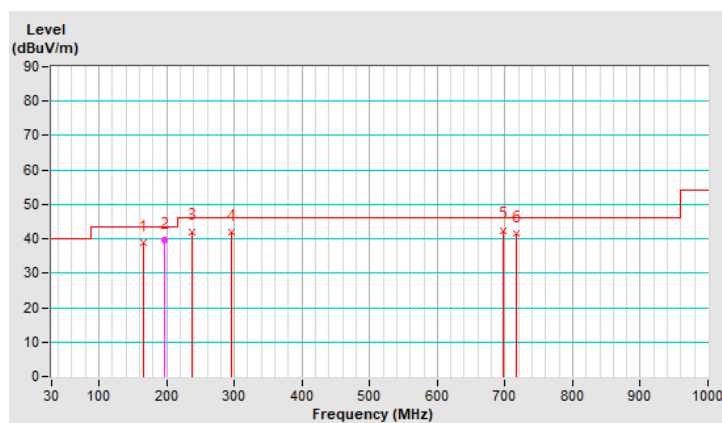
2T1S

RF Mode	802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	166.45	39.0 QP	43.5	-4.5	2.00 H	143	52.4	-13.4
2	197.48	39.8 QP	43.5	-3.7	1.50 H	44	56.1	-16.3
3	237.86	42.1 QP	46.0	-3.9	1.50 H	217	57.0	-14.9
4	295.49	41.8 QP	46.0	-4.2	2.00 H	279	54.5	-12.7
5	697.90	42.5 QP	46.0	-3.5	1.00 H	303	46.5	-4.0
6	716.24	41.5 QP	46.0	-4.5	1.50 H	221	45.3	-3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

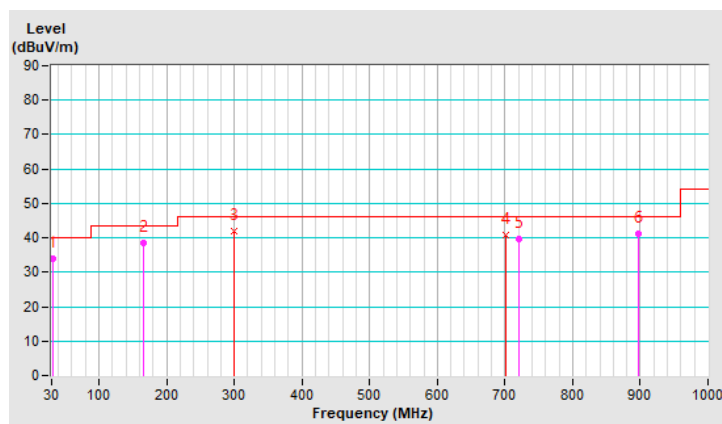


RF Mode	802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.13	33.8 QP	40.0	-6.2	1.50 V	354	47.7	-13.9
2	166.63	38.4 QP	43.5	-5.1	2.00 V	330	51.8	-13.4
3	298.92	41.8 QP	46.0	-4.2	2.00 V	297	54.4	-12.6
4	700.92	40.7 QP	46.0	-5.3	1.50 V	240	44.7	-4.0
5	721.37	39.7 QP	46.0	-6.3	1.00 V	227	43.4	-3.7
6	896.70	41.2 QP	46.0	-4.8	1.50 V	302	42.4	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



Mode B

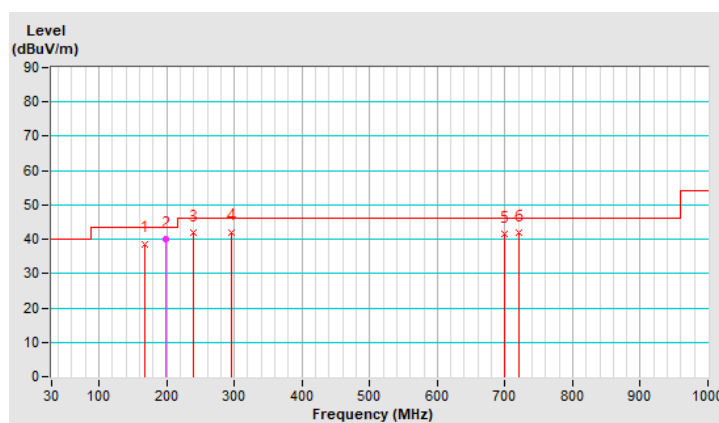
2T1S

RF Mode	802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	167.28	38.7 QP	43.5	-4.8	1.50 H	203	52.1	-13.4
2	197.89	40.0 QP	43.5	-3.5	1.50 H	93	56.3	-16.3
3	239.62	41.8 QP	46.0	-4.2	1.00 H	287	56.6	-14.8
4	295.99	42.1 QP	46.0	-3.9	2.00 H	354	54.8	-12.7
5	699.08	41.6 QP	46.0	-4.4	1.00 H	227	45.6	-4.0
6	720.59	42.0 QP	46.0	-4.0	1.50 H	163	45.8	-3.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

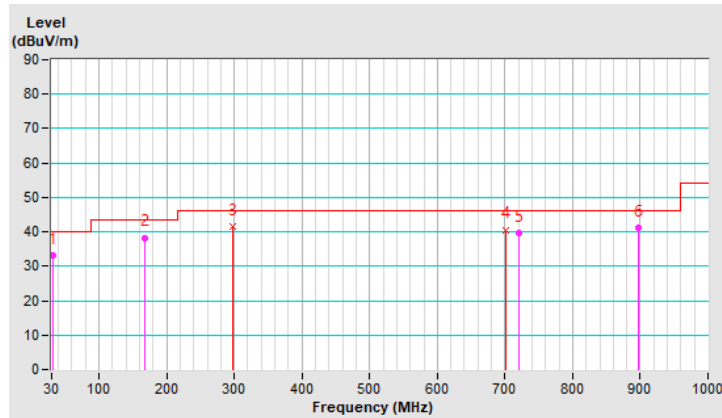


RF Mode	802.11ax (HE160)	Channel	CH 47 : 6185 MHz
Frequency Range	30 MHz ~ 1 GHz	Detector Function & Bandwidth	(QP) RB = 120kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 66% RH
Tested By	Tom Yang		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.16	33.0 QP	40.0	-7.0	1.50 V	331	46.9	-13.9
2	167.07	38.3 QP	43.5	-5.2	2.00 V	351	51.7	-13.4
3	298.57	41.7 QP	46.0	-4.3	2.00 V	301	54.3	-12.6
4	701.06	40.6 QP	46.0	-5.4	1.50 V	240	44.6	-4.0
5	720.84	39.8 QP	46.0	-6.2	1.00 V	251	43.6	-3.8
6	897.14	41.1 QP	46.0	-4.9	1.50 V	294	42.3	-1.2

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.10 Unwanted Emissions above 1 GHz

Mode A

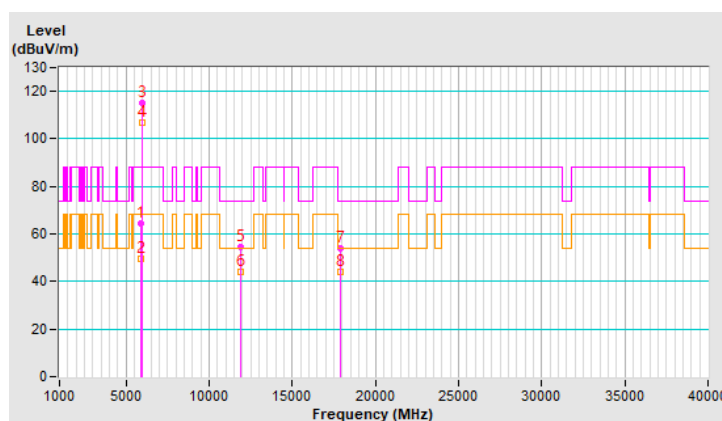
1TX

RF Mode	802.11a	Channel	CH 1 : 5955 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	64.6 PK	88.2	-23.6	2.13 H	104	63.1	1.5
2	#5925.00	49.8 AV	68.2	-18.4	2.13 H	104	48.3	1.5
3	*5955.00	114.9 PK			2.13 H	104	113.3	1.6
4	*5955.00	106.6 AV			2.13 H	104	105.0	1.6
5	11910.00	54.7 PK	74.0	-19.3	2.16 H	128	43.6	11.1
6	11910.00	44.3 AV	54.0	-9.7	2.16 H	128	33.2	11.1
7	17865.00	54.2 PK	74.0	-19.8	1.48 H	103	32.1	22.1
8	17865.00	44.0 AV	54.0	-10.0	1.48 H	103	21.9	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

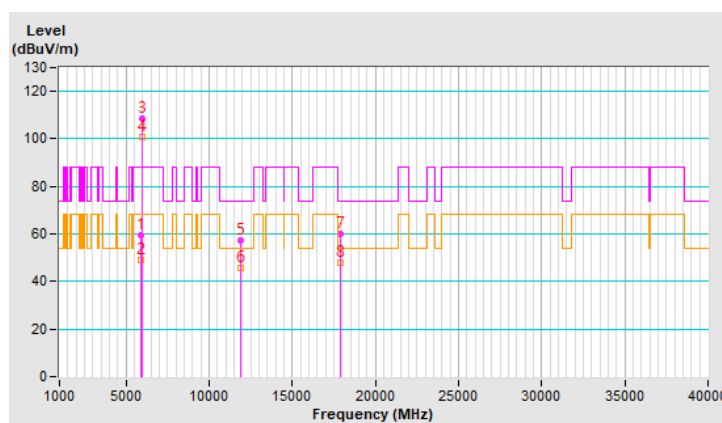


RF Mode	802.11a	Channel	CH 1 : 5955 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	59.6 PK	88.2	-28.6	2.07 V	64	58.1	1.5
2	#5925.00	49.0 AV	68.2	-19.2	2.07 V	64	47.5	1.5
3	*5955.00	108.7 PK			2.07 V	64	107.1	1.6
4	*5955.00	100.6 AV			2.07 V	64	99.0	1.6
5	11910.00	57.5 PK	74.0	-16.5	1.30 V	223	46.4	11.1
6	11910.00	45.8 AV	54.0	-8.2	1.30 V	223	34.7	11.1
7	17865.00	60.0 PK	74.0	-14.0	2.45 V	273	37.9	22.1
8	17865.00	47.8 AV	54.0	-6.2	2.45 V	273	25.7	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

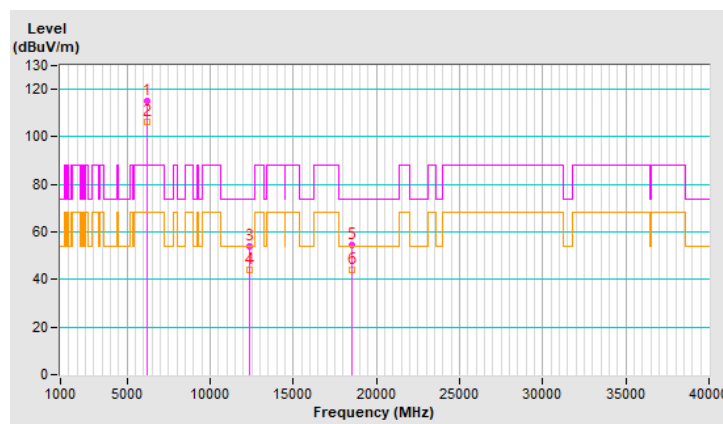


RF Mode	802.11a	Channel	CH 45 : 6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	115.2 PK			2.05 H	116	113.2	2.0
2	*6175.00	106.1 AV			2.05 H	116	104.1	2.0
3	12350.00	54.1 PK	74.0	-19.9	2.16 H	142	44.0	10.1
4	12350.00	44.0 AV	54.0	-10.0	2.16 H	142	33.9	10.1
5	18525.00	54.7 PK	74.0	-19.3	1.49 H	109	61.3	-6.6
6	18525.00	44.3 AV	54.0	-9.7	1.49 H	109	50.9	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

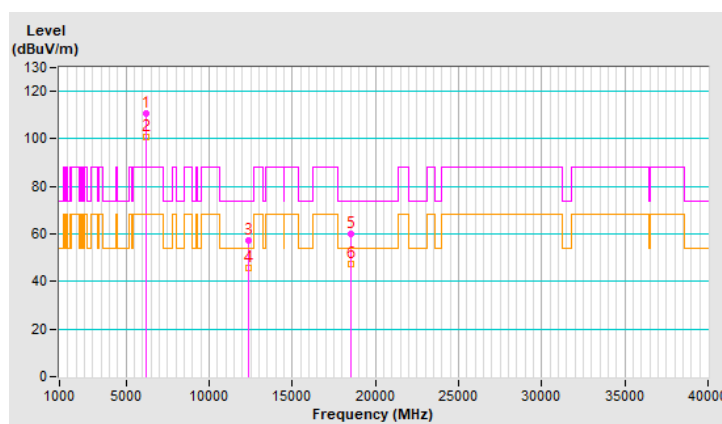


RF Mode	802.11a	Channel	CH 45 : 6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	110.7 PK			2.10 V	64	108.7	2.0
2	*6175.00	100.8 AV			2.10 V	64	98.8	2.0
3	12350.00	57.3 PK	74.0	-16.7	1.33 V	230	47.2	10.1
4	12350.00	45.9 AV	54.0	-8.1	1.33 V	230	35.8	10.1
5	18525.00	59.8 PK	74.0	-14.2	2.51 V	262	66.4	-6.6
6	18525.00	47.3 AV	54.0	-6.7	2.51 V	262	53.9	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

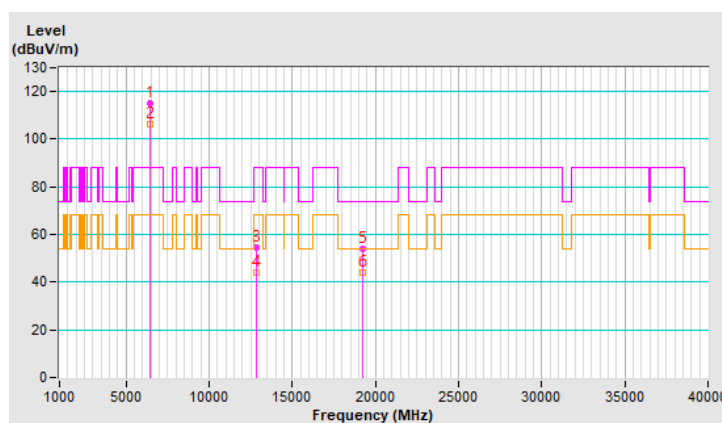


RF Mode	802.11a	Channel	CH 93 : 6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	115.0 PK			2.08 H	122	112.0	3.0
2	*6415.00	106.2 AV			2.08 H	122	103.2	3.0
3	#12830.00	54.6 PK	88.2	-33.6	2.20 H	118	44.0	10.6
4	#12830.00	44.3 AV	68.2	-23.9	2.20 H	118	33.7	10.6
5	19245.00	53.8 PK	74.0	-20.2	1.50 H	106	60.2	-6.4
6	19245.00	43.8 AV	54.0	-10.2	1.50 H	106	50.2	-6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

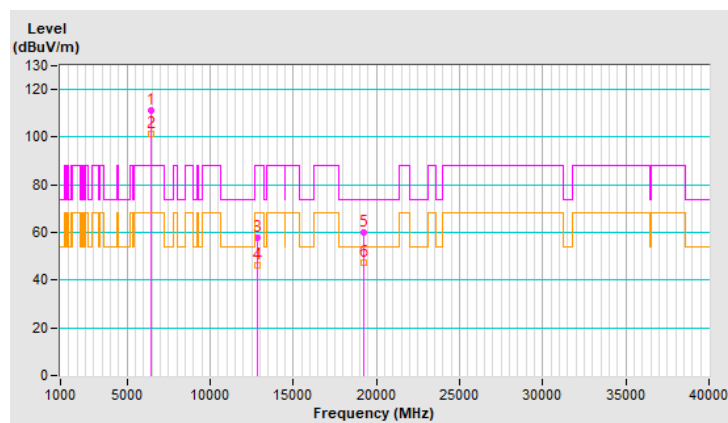


RF Mode	802.11a	Channel	CH 93 : 6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	111.1 PK			2.12 V	70	108.1	3.0
2	*6415.00	101.5 AV			2.12 V	70	98.5	3.0
3	#12830.00	57.9 PK	88.2	-30.3	1.28 V	215	47.3	10.6
4	#12830.00	46.2 AV	68.2	-22.0	1.28 V	215	35.6	10.6
5	19245.00	60.0 PK	74.0	-14.0	2.48 V	274	66.4	-6.4
6	19245.00	47.6 AV	54.0	-6.4	2.48 V	274	54.0	-6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

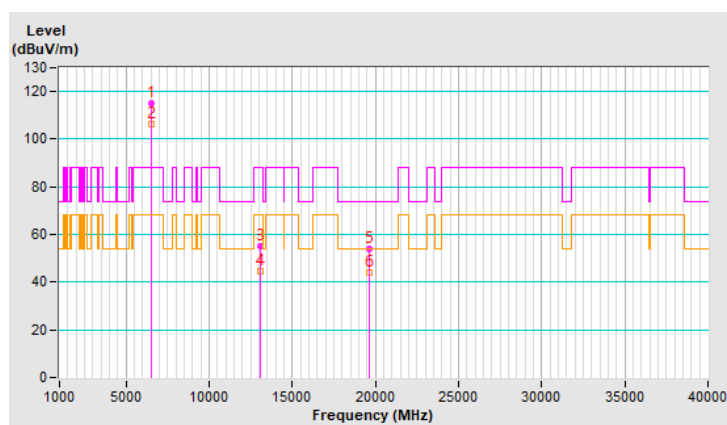


RF Mode	802.11a	Channel	CH 117 : 6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	114.9 PK			2.00 H	122	111.3	3.6
2	*6535.00	106.1 AV			2.00 H	122	102.5	3.6
3	#13070.00	54.9 PK	88.2	-33.3	2.11 H	120	44.1	10.8
4	#13070.00	44.5 AV	68.2	-23.7	2.11 H	120	33.7	10.8
5	19605.00	54.2 PK	74.0	-19.8	1.43 H	90	60.2	-6.0
6	19605.00	44.1 AV	54.0	-9.9	1.43 H	90	50.1	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

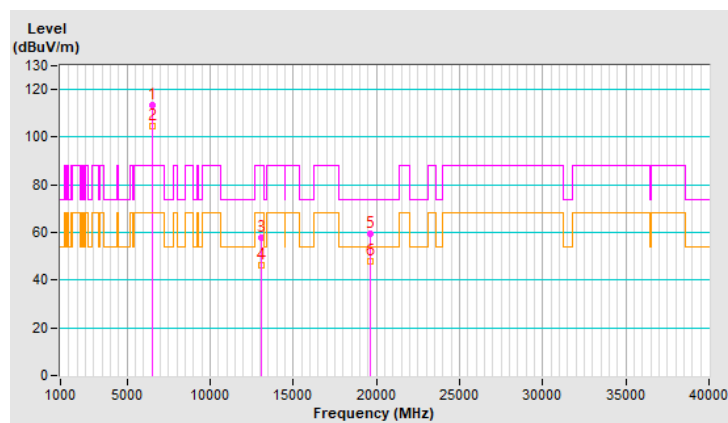


RF Mode	802.11a	Channel	CH 117 : 6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	113.2 PK			2.08 V	73	109.6	3.6
2	*6535.00	104.4 AV			2.08 V	73	100.8	3.6
3	#13070.00	58.0 PK	88.2	-30.2	1.34 V	237	47.2	10.8
4	#13070.00	46.2 AV	68.2	-22.0	1.34 V	237	35.4	10.8
5	19605.00	59.7 PK	74.0	-14.3	2.46 V	288	65.7	-6.0
6	19605.00	47.7 AV	54.0	-6.3	2.46 V	288	53.7	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

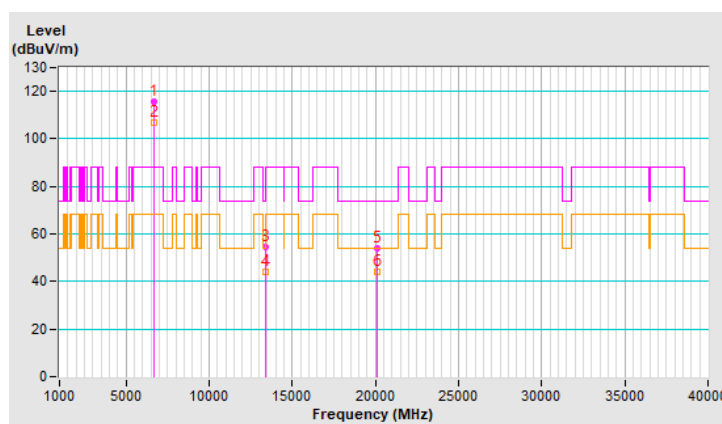


RF Mode	802.11a	Channel	CH 149 : 6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	115.6 PK			2.06 H	109	111.8	3.8
2	*6695.00	106.6 AV			2.06 H	109	102.8	3.8
3	13390.00	54.3 PK	74.0	-19.7	2.14 H	124	42.1	12.2
4	13390.00	44.1 AV	54.0	-9.9	2.14 H	124	31.9	12.2
5	20085.00	54.0 PK	74.0	-20.0	1.42 H	114	59.3	-5.3
6	20085.00	43.9 AV	54.0	-10.1	1.42 H	114	49.2	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

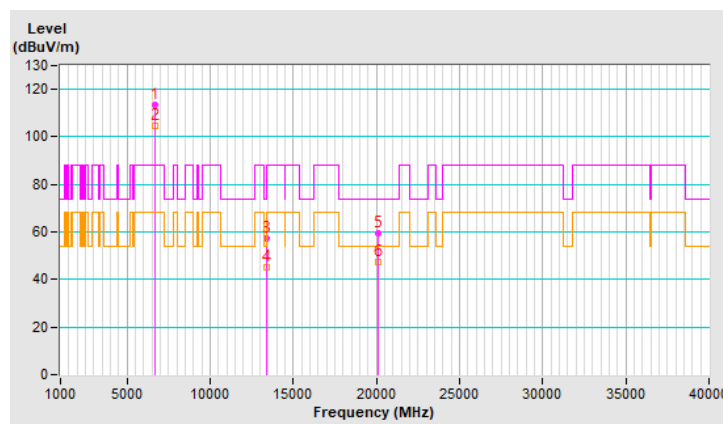


RF Mode	802.11a	Channel	CH 149 : 6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	113.5 PK			2.05 V	59	109.7	3.8
2	*6695.00	104.6 AV			2.05 V	59	100.8	3.8
3	13390.00	57.3 PK	74.0	-16.7	1.28 V	229	45.1	12.2
4	13390.00	45.4 AV	54.0	-8.6	1.28 V	229	33.2	12.2
5	20085.00	59.5 PK	74.0	-14.5	2.46 V	272	64.8	-5.3
6	20085.00	47.5 AV	54.0	-6.5	2.46 V	272	52.8	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

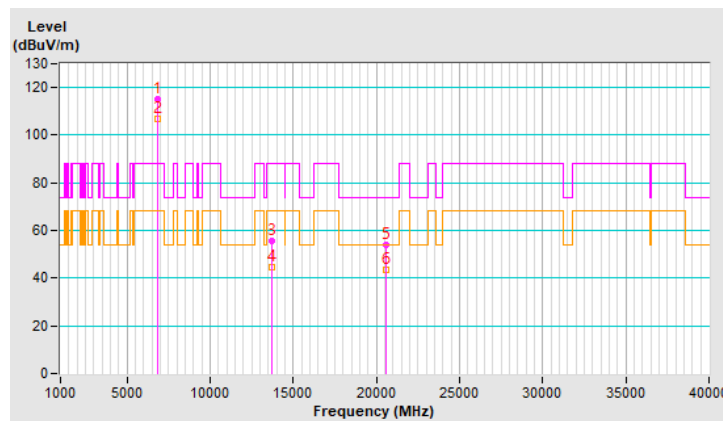


RF Mode	802.11a	Channel	CH 181 : 6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	115.2 PK			2.04 H	109	111.1	4.1
2	*6855.00	107.0 AV			2.04 H	109	102.9	4.1
3	#13710.00	55.5 PK	88.2	-32.7	2.15 H	143	42.6	12.9
4	#13710.00	44.8 AV	68.2	-23.4	2.15 H	143	31.9	12.9
5	20565.00	53.8 PK	74.0	-20.2	1.49 H	92	58.6	-4.8
6	20565.00	43.7 AV	54.0	-10.3	1.49 H	92	48.5	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

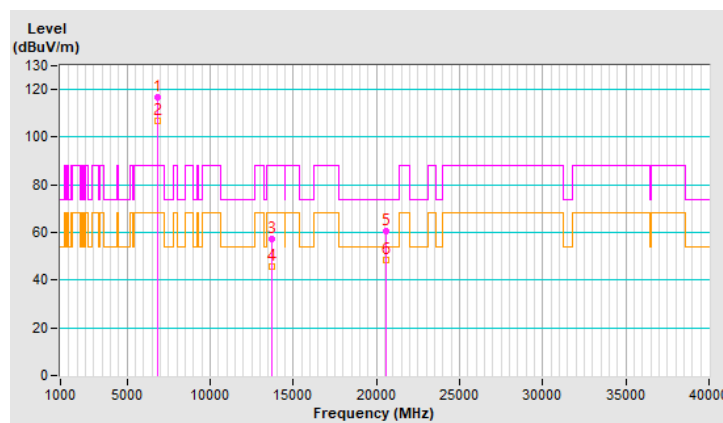


RF Mode	802.11a	Channel	CH 181 : 6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	116.9 PK			2.45 V	83	112.8	4.1
2	*6855.00	106.7 AV			2.45 V	83	102.6	4.1
3	#13710.00	57.4 PK	88.2	-30.8	1.29 V	218	44.5	12.9
4	#13710.00	45.7 AV	68.2	-22.5	1.29 V	218	32.8	12.9
5	20565.00	60.7 PK	74.0	-13.3	2.48 V	288	65.5	-4.8
6	20565.00	48.3 AV	54.0	-5.7	2.48 V	288	53.1	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



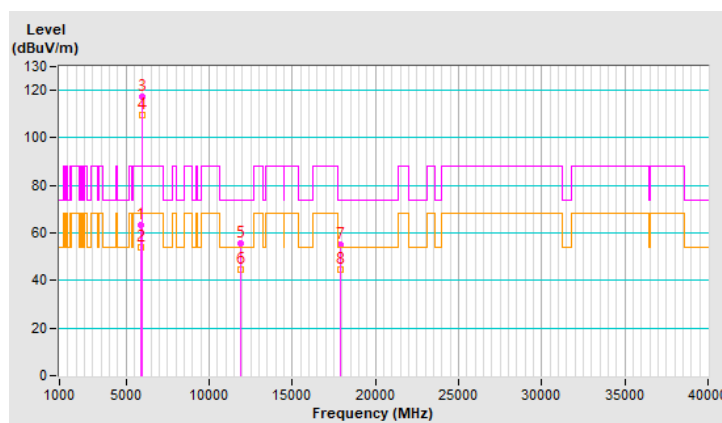
2TX

RF Mode	802.11a	Channel	CH 1 : 5955 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	63.2 PK	88.2	-25.0	2.02 H	114	61.7	1.5
2	#5925.00	53.8 AV	68.2	-14.4	2.02 H	114	52.3	1.5
3	*5955.00	117.3 PK			2.02 H	114	115.7	1.6
4	*5955.00	109.8 AV			2.02 H	114	108.2	1.6
5	11910.00	55.5 PK	74.0	-18.5	2.11 H	116	44.4	11.1
6	11910.00	44.8 AV	54.0	-9.2	2.11 H	116	33.7	11.1
7	17865.00	54.9 PK	74.0	-19.1	1.60 H	104	32.8	22.1
8	17865.00	44.8 AV	54.0	-9.2	1.60 H	104	22.7	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

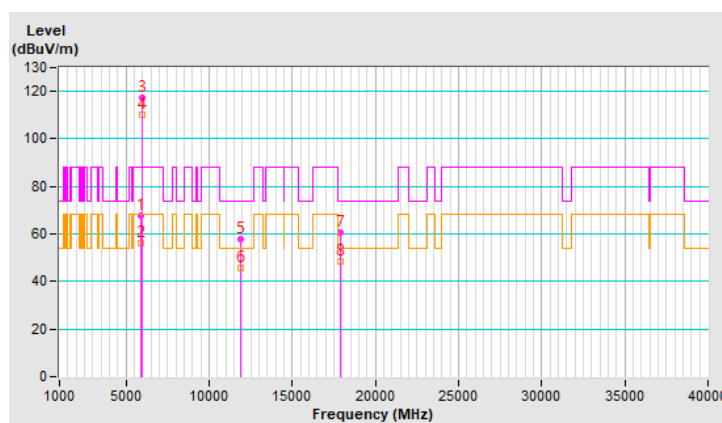


RF Mode	802.11a	Channel	CH 1 : 5955 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	67.8 PK	88.2	-20.4	2.53 V	106	66.3	1.5
2	#5925.00	56.4 AV	68.2	-11.8	2.53 V	106	54.9	1.5
3	*5955.00	117.1 PK			2.53 V	106	115.5	1.6
4	*5955.00	110.4 AV			2.53 V	106	108.8	1.6
5	11910.00	57.9 PK	74.0	-16.1	1.31 V	238	46.8	11.1
6	11910.00	45.8 AV	54.0	-8.2	1.31 V	238	34.7	11.1
7	17865.00	60.7 PK	74.0	-13.3	2.37 V	291	38.6	22.1
8	17865.00	48.3 AV	54.0	-5.7	2.37 V	291	26.2	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

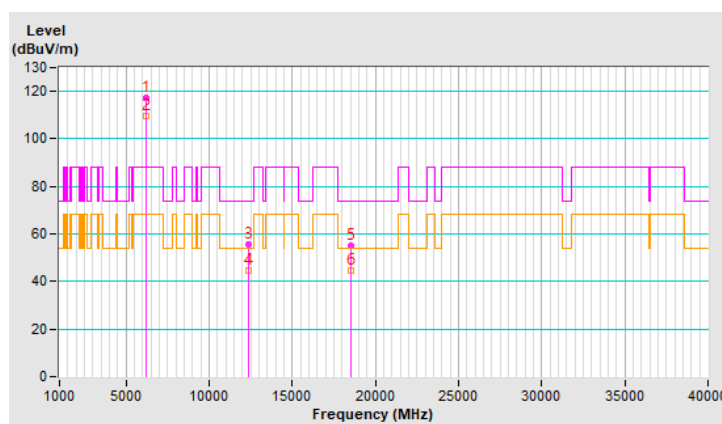


RF Mode	802.11a	Channel	CH 45 : 6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	117.1 PK			2.07 H	107	115.1	2.0
2	*6175.00	109.6 AV			2.07 H	107	107.6	2.0
3	12350.00	55.8 PK	74.0	-18.2	2.09 H	125	45.7	10.1
4	12350.00	44.8 AV	54.0	-9.2	2.09 H	125	34.7	10.1
5	18525.00	55.1 PK	74.0	-18.9	1.64 H	115	61.7	-6.6
6	18525.00	44.7 AV	54.0	-9.3	1.64 H	115	51.3	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

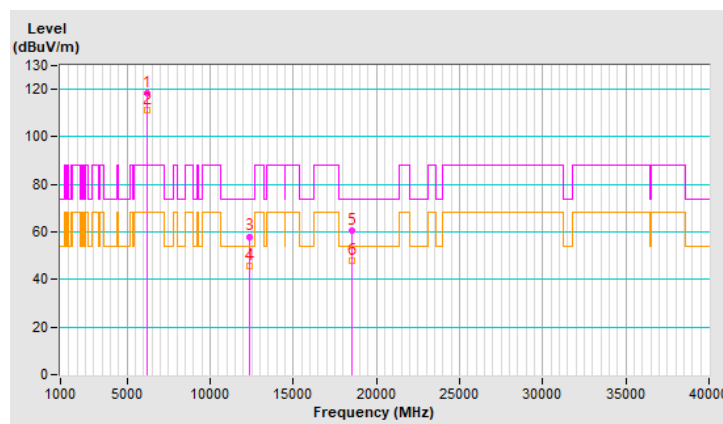


RF Mode	802.11a	Channel	CH 45 : 6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	118.6 PK			2.22 V	99	116.6	2.0
2	*6175.00	111.4 AV			2.22 V	99	109.4	2.0
3	12350.00	58.1 PK	74.0	-15.9	1.34 V	240	48.0	10.1
4	12350.00	45.9 AV	54.0	-8.1	1.34 V	240	35.8	10.1
5	18525.00	60.4 PK	74.0	-13.6	2.40 V	282	67.0	-6.6
6	18525.00	47.8 AV	54.0	-6.2	2.40 V	282	54.4	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

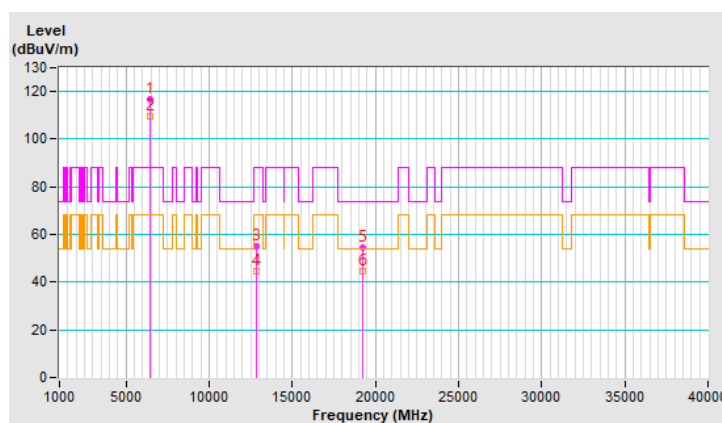


RF Mode	802.11a	Channel	CH 93 : 6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	117.0 PK			1.98 H	109	114.0	3.0
2	*6415.00	109.7 AV			1.98 H	109	106.7	3.0
3	#12830.00	55.2 PK	88.2	-33.0	2.16 H	121	44.6	10.6
4	#12830.00	44.4 AV	68.2	-23.8	2.16 H	121	33.8	10.6
5	19245.00	54.6 PK	74.0	-19.4	1.58 H	96	61.0	-6.4
6	19245.00	44.6 AV	54.0	-9.4	1.58 H	96	51.0	-6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

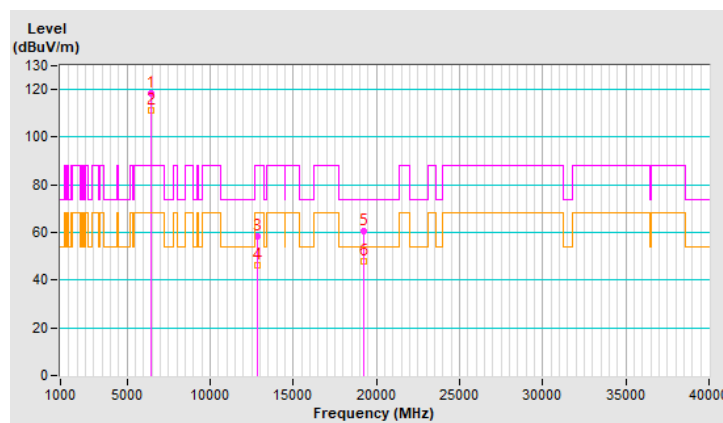


RF Mode	802.11a	Channel	CH 93 : 6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	118.5 PK			2.25 V	103	115.5	3.0
2	*6415.00	111.0 AV			2.25 V	103	108.0	3.0
3	#12830.00	58.2 PK	88.2	-30.0	1.30 V	242	47.6	10.6
4	#12830.00	46.0 AV	68.2	-22.2	1.30 V	242	35.4	10.6
5	19245.00	60.6 PK	74.0	-13.4	2.31 V	293	67.0	-6.4
6	19245.00	48.1 AV	54.0	-5.9	2.31 V	293	54.5	-6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

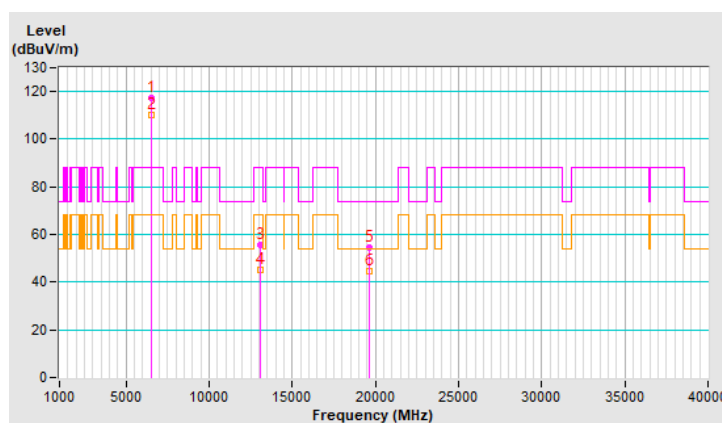


RF Mode	802.11a	Channel	CH 117 : 6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	117.3 PK			2.00 H	119	113.7	3.6
2	*6535.00	110.0 AV			2.00 H	119	106.4	3.6
3	#13070.00	55.6 PK	88.2	-32.6	2.13 H	103	44.8	10.8
4	#13070.00	45.1 AV	68.2	-23.1	2.13 H	103	34.3	10.8
5	19605.00	54.4 PK	74.0	-19.6	1.63 H	105	60.4	-6.0
6	19605.00	44.4 AV	54.0	-9.6	1.63 H	105	50.4	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

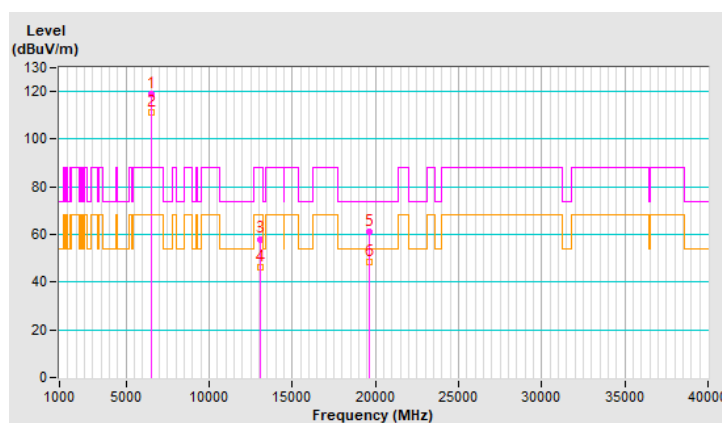


RF Mode	802.11a	Channel	CH 117 : 6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	119.0 PK			2.31 V	95	115.4	3.6
2	*6535.00	111.3 AV			2.31 V	95	107.7	3.6
3	#13070.00	58.1 PK	88.2	-30.1	1.37 V	249	47.3	10.8
4	#13070.00	46.0 AV	68.2	-22.2	1.37 V	249	35.2	10.8
5	19605.00	60.9 PK	74.0	-13.1	2.41 V	298	66.9	-6.0
6	19605.00	48.7 AV	54.0	-5.3	2.41 V	298	54.7	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

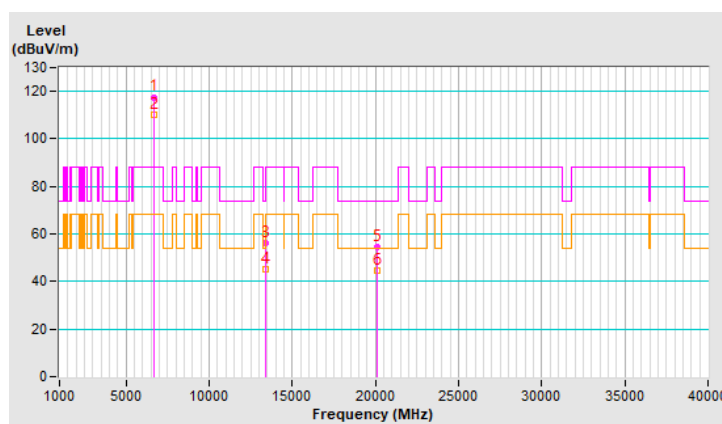


RF Mode	802.11a	Channel	CH 149 : 6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	117.6 PK			2.00 H	121	113.8	3.8
2	*6695.00	110.2 AV			2.00 H	121	106.4	3.8
3	13390.00	56.1 PK	74.0	-17.9	2.08 H	103	43.9	12.2
4	13390.00	45.1 AV	54.0	-8.9	2.08 H	103	32.9	12.2
5	20085.00	54.7 PK	74.0	-19.3	1.60 H	112	60.0	-5.3
6	20085.00	44.6 AV	54.0	-9.4	1.60 H	112	49.9	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

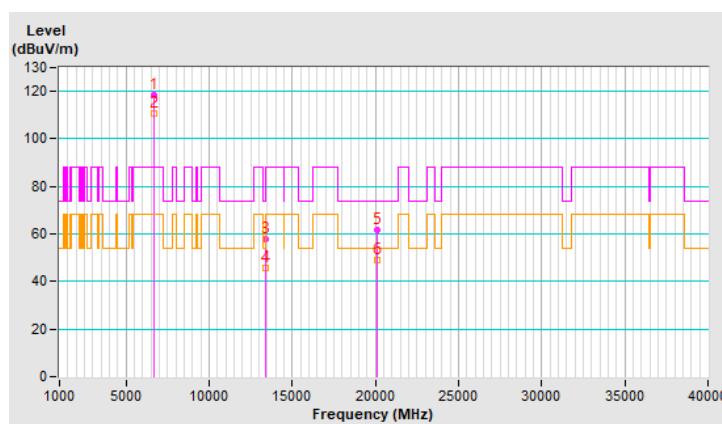


RF Mode	802.11a	Channel	CH 149 : 6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	118.2 PK			2.33 V	83	114.4	3.8
2	*6695.00	110.6 AV			2.33 V	83	106.8	3.8
3	13390.00	57.8 PK	74.0	-16.2	1.25 V	232	45.6	12.2
4	13390.00	45.7 AV	54.0	-8.3	1.25 V	232	33.5	12.2
5	20085.00	61.5 PK	74.0	-12.5	2.41 V	288	66.8	-5.3
6	20085.00	48.8 AV	54.0	-5.2	2.41 V	288	54.1	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

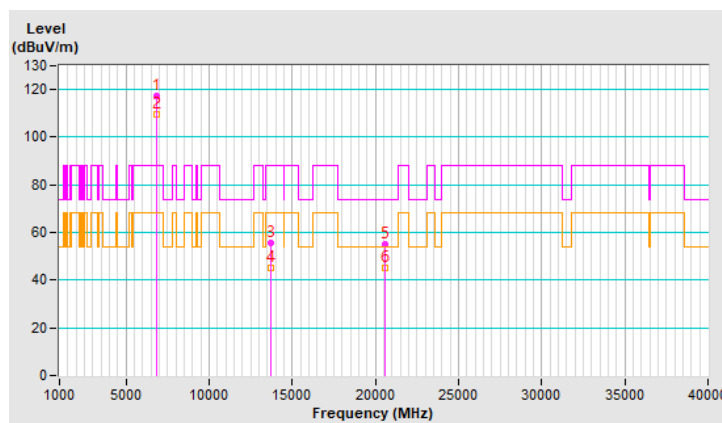


RF Mode	802.11a	Channel	CH 181 : 6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	117.2 PK			1.97 H	107	113.1	4.1
2	*6855.00	109.8 AV			1.97 H	107	105.7	4.1
3	#13710.00	55.4 PK	88.2	-32.8	2.15 H	123	42.5	12.9
4	#13710.00	44.9 AV	68.2	-23.3	2.15 H	123	32.0	12.9
5	20565.00	55.3 PK	74.0	-18.7	1.61 H	102	60.1	-4.8
6	20565.00	45.0 AV	54.0	-9.0	1.61 H	102	49.8	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

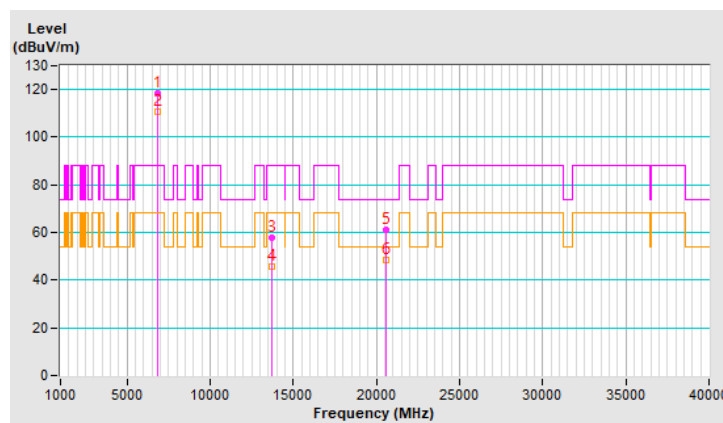


RF Mode	802.11a	Channel	CH 181 : 6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 200 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	118.5 PK			2.28 V	96	114.4	4.1
2	*6855.00	110.8 AV			2.28 V	96	106.7	4.1
3	#13710.00	58.0 PK	88.2	-30.2	1.35 V	241	45.1	12.9
4	#13710.00	45.6 AV	68.2	-22.6	1.35 V	241	32.7	12.9
5	20565.00	61.0 PK	74.0	-13.0	2.36 V	285	65.8	-4.8
6	20565.00	48.7 AV	54.0	-5.3	2.36 V	285	53.5	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.



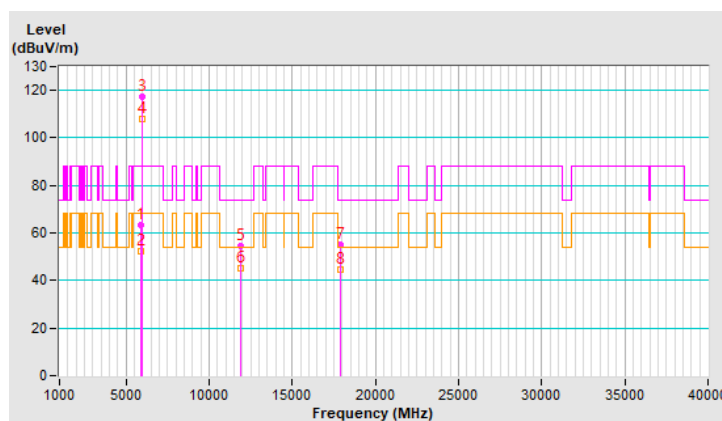
2T1S

RF Mode	802.11ax (HE20)	Channel	CH 1 : 5955 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	63.5 PK	88.2	-24.7	1.83 H	97	62.0	1.5
2	#5925.00	52.5 AV	68.2	-15.7	1.83 H	97	51.0	1.5
3	*5955.00	117.3 PK			1.83 H	97	115.7	1.6
4	*5955.00	107.8 AV			1.83 H	97	106.2	1.6
5	11910.00	54.5 PK	74.0	-19.5	2.23 H	90	43.4	11.1
6	11910.00	45.2 AV	54.0	-8.8	2.23 H	90	34.1	11.1
7	17865.00	55.2 PK	74.0	-18.8	1.62 H	98	33.1	22.1
8	17865.00	44.5 AV	54.0	-9.5	1.62 H	98	22.4	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

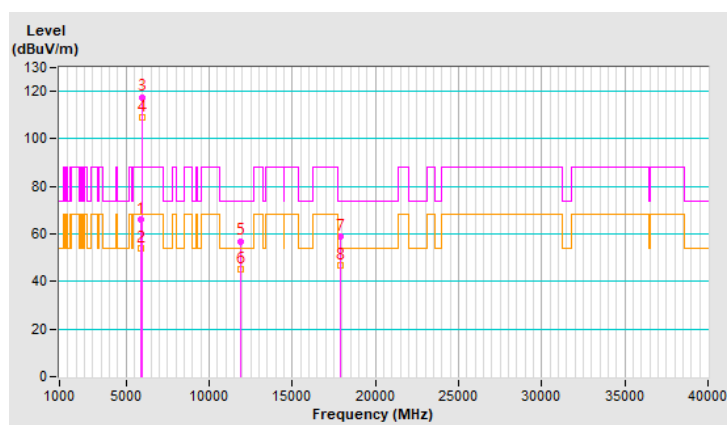


RF Mode	802.11ax (HE20)	Channel	CH 1 : 5955 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	66.2 PK	88.2	-22.0	2.37 V	76	64.7	1.5
2	#5925.00	54.1 AV	68.2	-14.1	2.37 V	76	52.6	1.5
3	*5955.00	117.6 PK			2.37 V	76	116.0	1.6
4	*5955.00	109.2 AV			2.37 V	76	107.6	1.6
5	11910.00	57.0 PK	74.0	-17.0	1.14 V	219	45.9	11.1
6	11910.00	45.0 AV	54.0	-9.0	1.14 V	219	33.9	11.1
7	17865.00	58.8 PK	74.0	-15.2	2.39 V	248	36.7	22.1
8	17865.00	46.9 AV	54.0	-7.1	2.39 V	248	24.8	22.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

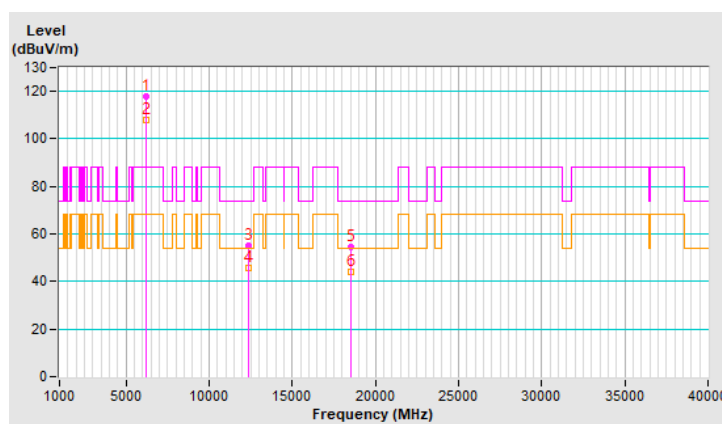


RF Mode	802.11ax (HE20)	Channel	CH 45 : 6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	117.7 PK			1.81 H	94	115.7	2.0
2	*6175.00	108.1 AV			1.81 H	94	106.1	2.0
3	12350.00	55.0 PK	74.0	-19.0	2.26 H	85	44.9	10.1
4	12350.00	45.7 AV	54.0	-8.3	2.26 H	85	35.6	10.1
5	18525.00	54.7 PK	74.0	-19.3	1.67 H	90	61.3	-6.6
6	18525.00	44.3 AV	54.0	-9.7	1.67 H	90	50.9	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

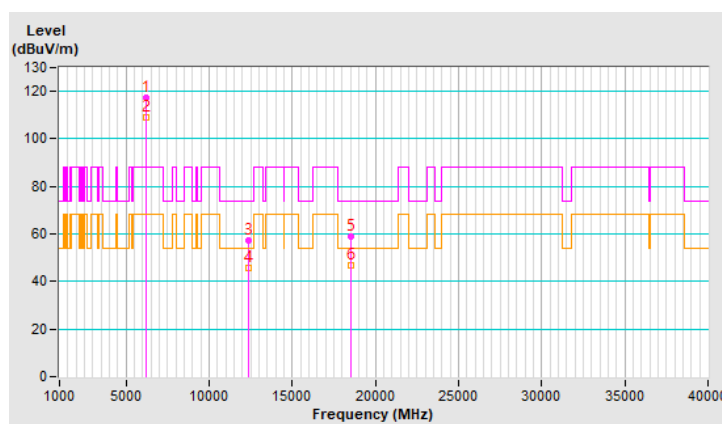


RF Mode	802.11ax (HE20)	Channel	CH 45 : 6175 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6175.00	117.3 PK			2.34 V	94	115.3	2.0
2	*6175.00	109.2 AV			2.34 V	94	107.2	2.0
3	12350.00	57.3 PK	74.0	-16.7	1.15 V	232	47.2	10.1
4	12350.00	45.5 AV	54.0	-8.5	1.15 V	232	35.4	10.1
5	18525.00	59.0 PK	74.0	-15.0	2.35 V	243	65.6	-6.6
6	18525.00	47.0 AV	54.0	-7.0	2.35 V	243	53.6	-6.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

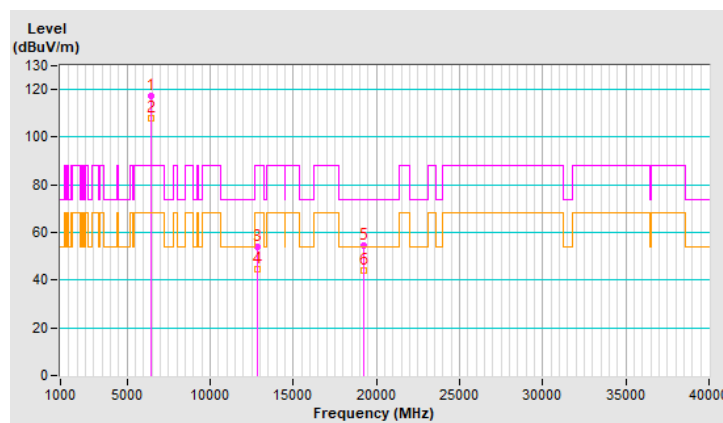


RF Mode	802.11ax (HE20)	Channel	CH 93 : 6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	117.2 PK			1.85 H	112	114.2	3.0
2	*6415.00	107.8 AV			1.85 H	112	104.8	3.0
3	#12830.00	54.0 PK	88.2	-34.2	2.27 H	89	43.4	10.6
4	#12830.00	44.8 AV	68.2	-23.4	2.27 H	89	34.2	10.6
5	19245.00	54.5 PK	74.0	-19.5	1.62 H	90	60.9	-6.4
6	19245.00	44.1 AV	54.0	-9.9	1.62 H	90	50.5	-6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

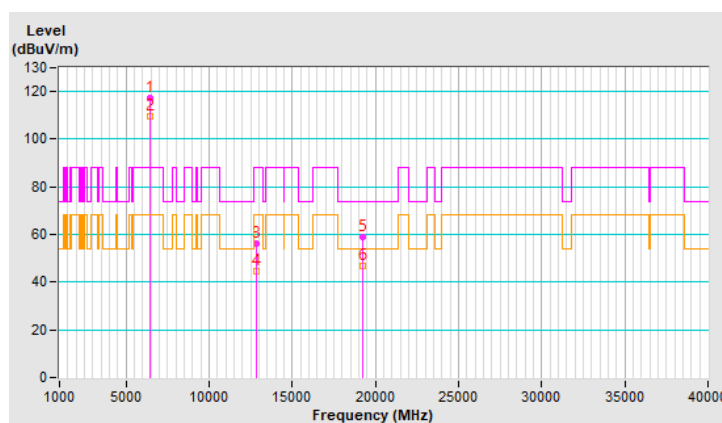


RF Mode	802.11ax (HE20)	Channel	CH 93 : 6415 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6415.00	117.5 PK			2.32 V	90	114.5	3.0
2	*6415.00	109.6 AV			2.32 V	90	106.6	3.0
3	#12830.00	56.2 PK	88.2	-32.0	1.19 V	217	45.6	10.6
4	#12830.00	44.5 AV	68.2	-23.7	1.19 V	217	33.9	10.6
5	19245.00	59.1 PK	74.0	-14.9	2.38 V	232	65.5	-6.4
6	19245.00	47.0 AV	54.0	-7.0	2.38 V	232	53.4	-6.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

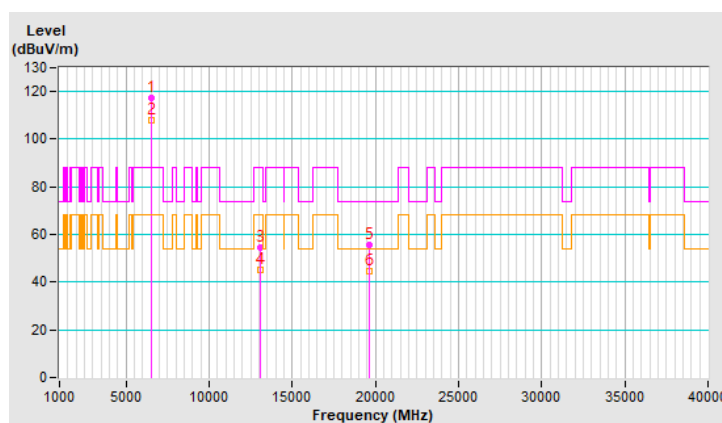


RF Mode	802.11ax (HE20)	Channel	CH 117 : 6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	117.4 PK			1.84 H	112	113.8	3.6
2	*6535.00	108.1 AV			1.84 H	112	104.5	3.6
3	#13070.00	54.4 PK	88.2	-33.8	2.20 H	100	43.6	10.8
4	#13070.00	44.9 AV	68.2	-23.3	2.20 H	100	34.1	10.8
5	19605.00	55.4 PK	74.0	-18.6	1.56 H	89	61.4	-6.0
6	19605.00	44.8 AV	54.0	-9.2	1.56 H	89	50.8	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

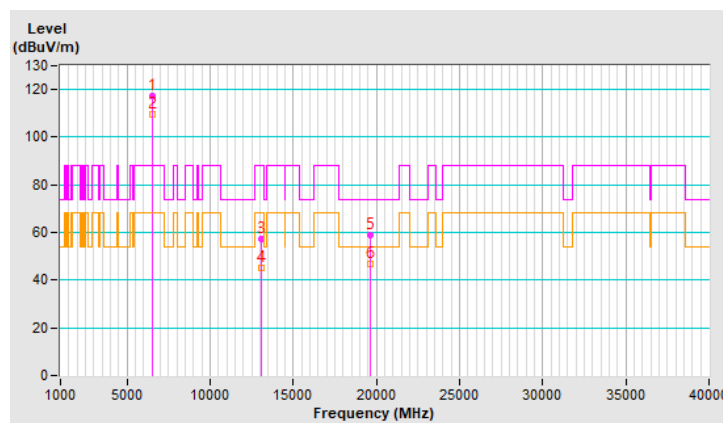


RF Mode	802.11ax (HE20)	Channel	CH 117 : 6535 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6535.00	117.3 PK			2.38 V	103	113.7	3.6
2	*6535.00	109.4 AV			2.38 V	103	105.8	3.6
3	#13070.00	57.3 PK	88.2	-30.9	1.18 V	231	46.5	10.8
4	#13070.00	45.4 AV	68.2	-22.8	1.18 V	231	34.6	10.8
5	19605.00	58.8 PK	74.0	-15.2	2.37 V	243	64.8	-6.0
6	19605.00	46.9 AV	54.0	-7.1	2.37 V	243	52.9	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

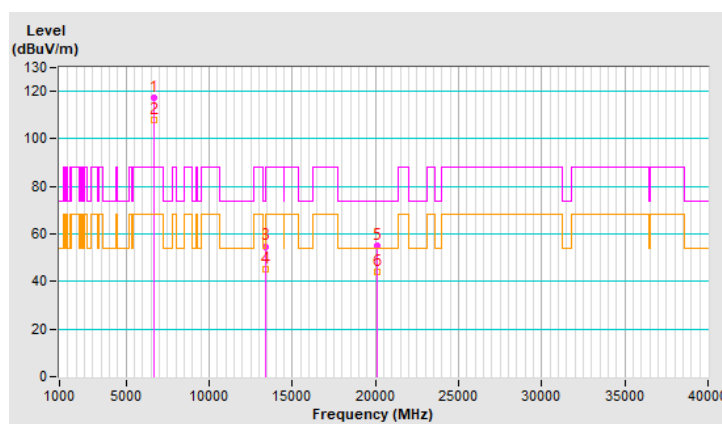


RF Mode	802.11ax (HE20)	Channel	CH 149 : 6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	117.1 PK			1.80 H	88	113.3	3.8
2	*6695.00	107.8 AV			1.80 H	88	104.0	3.8
3	13390.00	54.8 PK	74.0	-19.2	2.28 H	94	42.6	12.2
4	13390.00	45.3 AV	54.0	-8.7	2.28 H	94	33.1	12.2
5	20085.00	55.0 PK	74.0	-19.0	1.65 H	111	60.3	-5.3
6	20085.00	44.3 AV	54.0	-9.7	1.65 H	111	49.6	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

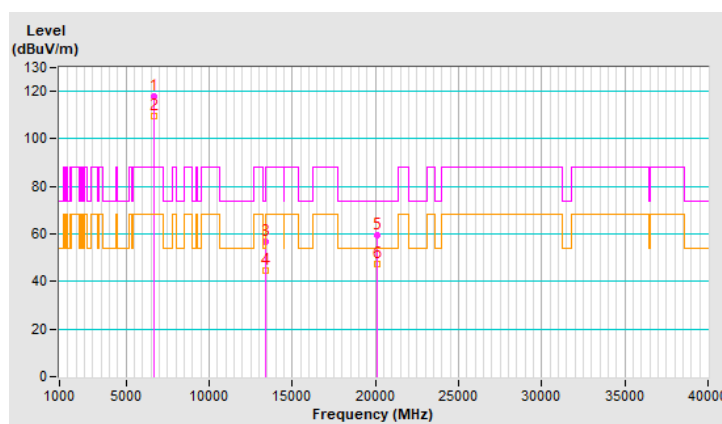


RF Mode	802.11ax (HE20)	Channel	CH 149 : 6695 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6695.00	117.8 PK			2.36 V	78	114.0	3.8
2	*6695.00	109.4 AV			2.36 V	78	105.6	3.8
3	13390.00	56.9 PK	74.0	-17.1	1.08 V	227	44.7	12.2
4	13390.00	44.7 AV	54.0	-9.3	1.08 V	227	32.5	12.2
5	20085.00	59.4 PK	74.0	-14.6	2.39 V	241	64.7	-5.3
6	20085.00	47.3 AV	54.0	-6.7	2.39 V	241	52.6	-5.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

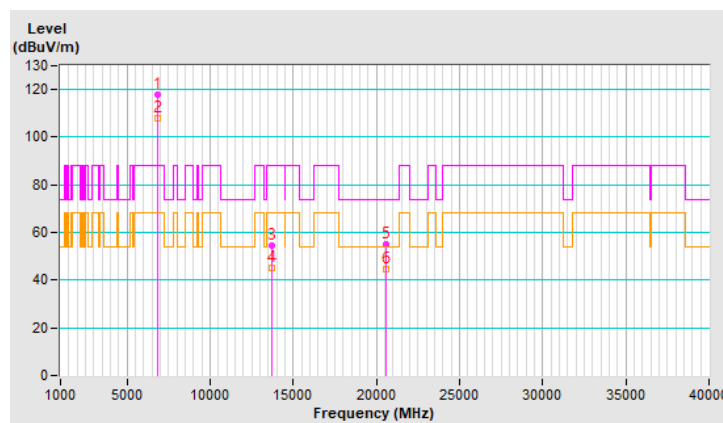


RF Mode	802.11ax (HE20)	Channel	CH 181 : 6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	117.8 PK			1.78 H	100	113.7	4.1
2	*6855.00	108.1 AV			1.78 H	100	104.0	4.1
3	#13710.00	54.3 PK	88.2	-33.9	2.17 H	76	41.4	12.9
4	#13710.00	45.1 AV	68.2	-23.1	2.17 H	76	32.2	12.9
5	20565.00	55.2 PK	74.0	-18.8	1.66 H	113	60.0	-4.8
6	20565.00	44.8 AV	54.0	-9.2	1.66 H	113	49.6	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

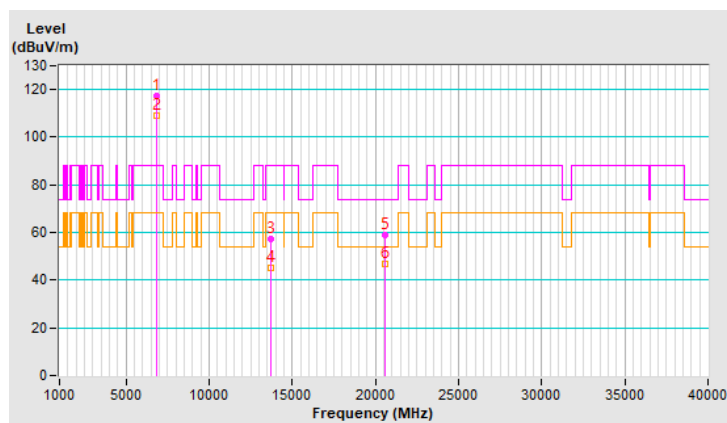


RF Mode	802.11ax (HE20)	Channel	CH 181 : 6855 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6855.00	117.5 PK			2.33 V	89	113.4	4.1
2	*6855.00	109.0 AV			2.33 V	89	104.9	4.1
3	#13710.00	57.2 PK	88.2	-31.0	1.18 V	207	44.3	12.9
4	#13710.00	45.3 AV	68.2	-22.9	1.18 V	207	32.4	12.9
5	20565.00	58.7 PK	74.0	-15.3	2.37 V	251	63.5	-4.8
6	20565.00	46.9 AV	54.0	-7.1	2.37 V	251	51.7	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

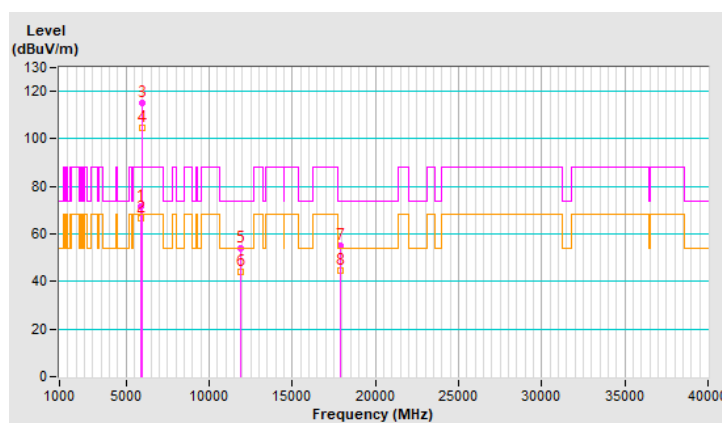


RF Mode	802.11ax (HE40)	Channel	CH 3 : 5965 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	71.7 PK	88.2	-16.5	1.83 H	68	70.2	1.5
2	#5925.00	66.8 AV	68.2	-1.4	1.83 H	68	65.3	1.5
3	*5965.00	115.3 PK			1.94 H	74	113.7	1.6
4	*5965.00	104.4 AV			1.94 H	74	102.8	1.6
5	11930.00	53.8 PK	74.0	-20.2	2.23 H	113	42.7	11.1
6	11930.00	43.9 AV	54.0	-10.1	2.23 H	113	32.8	11.1
7	17895.00	55.0 PK	74.0	-19.0	1.63 H	81	32.2	22.8
8	17895.00	44.7 AV	54.0	-9.3	1.63 H	81	21.9	22.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

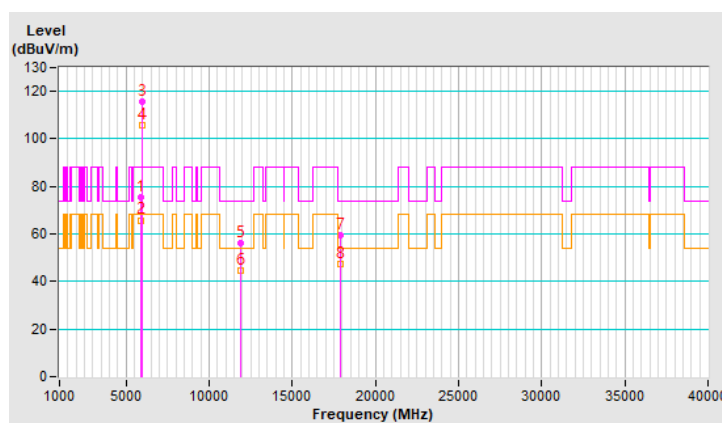


RF Mode	802.11ax (HE40)	Channel	CH 3 : 5965 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	75.6 PK	88.2	-12.6	2.39 V	102	74.1	1.5
2	#5925.00	65.8 AV	68.2	-2.4	2.39 V	102	64.3	1.5
3	*5965.00	115.5 PK			2.27 V	114	113.9	1.6
4	*5965.00	105.9 AV			2.27 V	114	104.3	1.6
5	11930.00	56.3 PK	74.0	-17.7	1.18 V	232	45.2	11.1
6	11930.00	44.8 AV	54.0	-9.2	1.18 V	232	33.7	11.1
7	17895.00	59.3 PK	74.0	-14.7	2.39 V	288	36.5	22.8
8	17895.00	47.5 AV	54.0	-6.5	2.39 V	288	24.7	22.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # ": The radiated frequency is out of the restricted band.

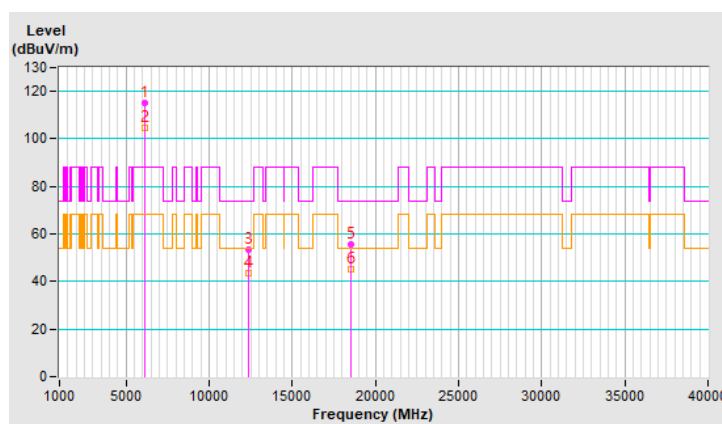


RF Mode	802.11ax (HE40)	Channel	CH 43 : 6165 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6165.00	115.3 PK			2.00 H	73	113.4	1.9
2	*6165.00	104.5 AV			2.00 H	73	102.6	1.9
3	12330.00	53.6 PK	74.0	-20.4	2.18 H	110	43.5	10.1
4	12330.00	43.7 AV	54.0	-10.3	2.18 H	110	33.6	10.1
5	18495.00	55.4 PK	74.0	-18.6	1.67 H	80	62.1	-6.7
6	18495.00	45.1 AV	54.0	-8.9	1.67 H	80	51.8	-6.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

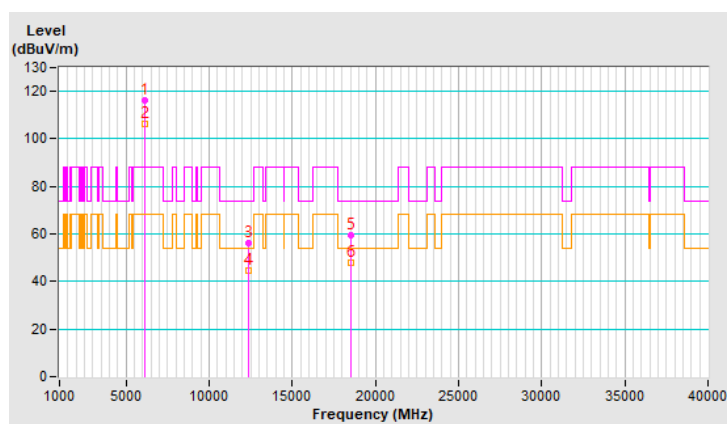


RF Mode	802.11ax (HE40)	Channel	CH 43 : 6165 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6165.00	116.2 PK			2.29 V	106	114.3	1.9
2	*6165.00	106.4 AV			2.29 V	106	104.5	1.9
3	12330.00	56.4 PK	74.0	-17.6	1.14 V	237	46.3	10.1
4	12330.00	44.8 AV	54.0	-9.2	1.14 V	237	34.7	10.1
5	18495.00	59.7 PK	74.0	-14.3	2.41 V	287	66.4	-6.7
6	18495.00	47.7 AV	54.0	-6.3	2.41 V	287	54.4	-6.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.

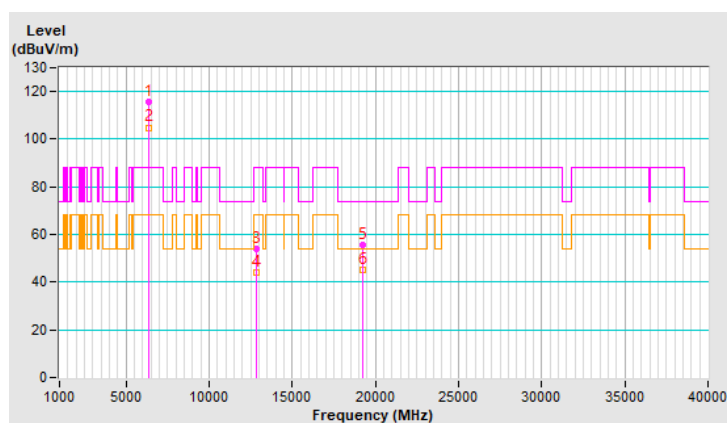


RF Mode	802.11ax (HE40)	Channel	CH 91 : 6405 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6405.00	115.9 PK			2.04 H	73	112.9	3.0
2	*6405.00	104.9 AV			2.04 H	73	101.9	3.0
3	#12810.00	54.0 PK	88.2	-34.2	2.19 H	109	43.5	10.5
4	#12810.00	44.1 AV	68.2	-24.1	2.19 H	109	33.6	10.5
5	19215.00	55.5 PK	74.0	-18.5	1.60 H	74	61.8	-6.3
6	19215.00	45.1 AV	54.0	-8.9	1.60 H	74	51.4	-6.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

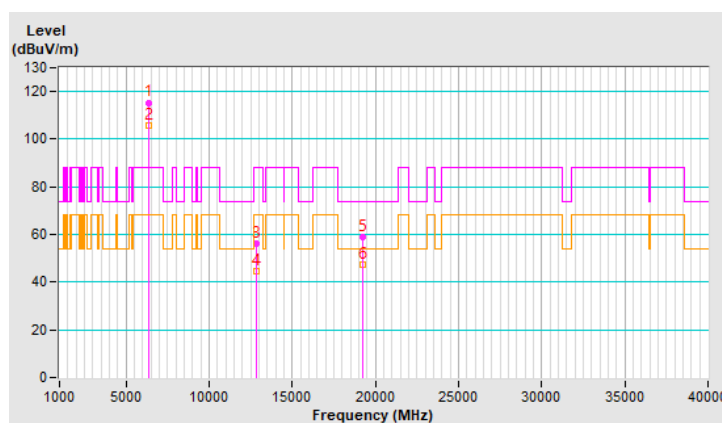


RF Mode	802.11ax (HE40)	Channel	CH 91 : 6405 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6405.00	115.4 PK			2.28 V	101	112.4	3.0
2	*6405.00	105.7 AV			2.28 V	101	102.7	3.0
3	#12810.00	56.0 PK	88.2	-32.2	1.21 V	223	45.5	10.5
4	#12810.00	44.4 AV	68.2	-23.8	1.21 V	223	33.9	10.5
5	19215.00	59.0 PK	74.0	-15.0	2.41 V	300	65.3	-6.3
6	19215.00	47.3 AV	54.0	-6.7	2.41 V	300	53.6	-6.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

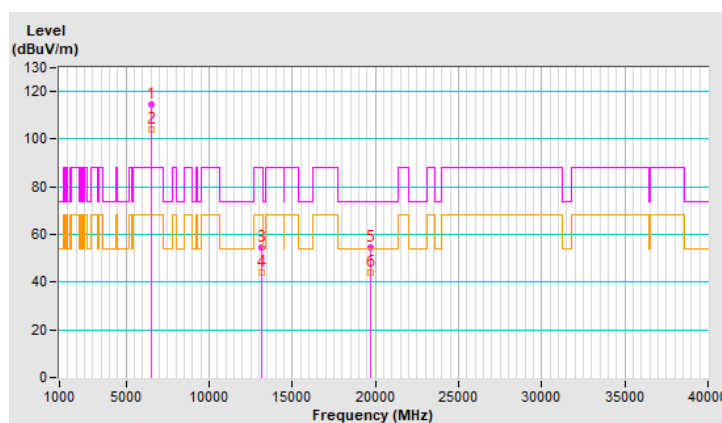


RF Mode	802.11ax (HE40)	Channel	CH 123 : 6565 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	114.6 PK			1.88 H	58	110.9	3.7
2	*6565.00	104.3 AV			1.88 H	58	100.6	3.7
3	#13130.00	54.3 PK	88.2	-33.9	2.26 H	129	43.2	11.1
4	#13130.00	44.2 AV	68.2	-24.0	2.26 H	129	33.1	11.1
5	19695.00	54.7 PK	74.0	-19.3	1.67 H	66	60.7	-6.0
6	19695.00	44.3 AV	54.0	-9.7	1.67 H	66	50.3	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

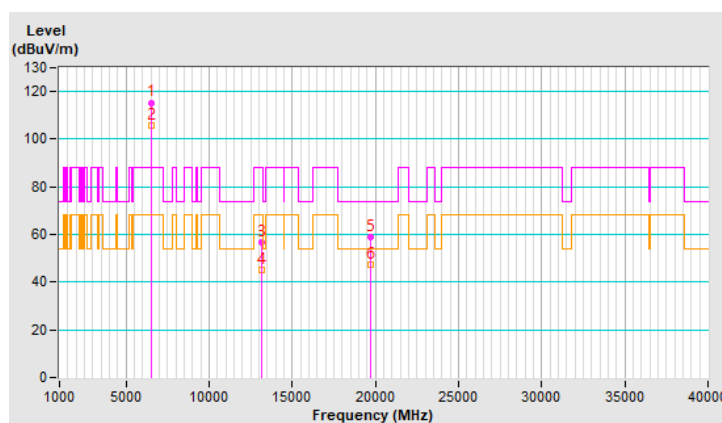


RF Mode	802.11ax (HE40)	Channel	CH 123 : 6565 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6565.00	115.4 PK			2.30 V	106	111.7	3.7
2	*6565.00	105.9 AV			2.30 V	106	102.2	3.7
3	#13130.00	56.7 PK	88.2	-31.5	1.18 V	246	45.6	11.1
4	#13130.00	45.3 AV	68.2	-22.9	1.18 V	246	34.2	11.1
5	19695.00	58.8 PK	74.0	-15.2	2.33 V	283	64.8	-6.0
6	19695.00	47.1 AV	54.0	-6.9	2.33 V	283	53.1	-6.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

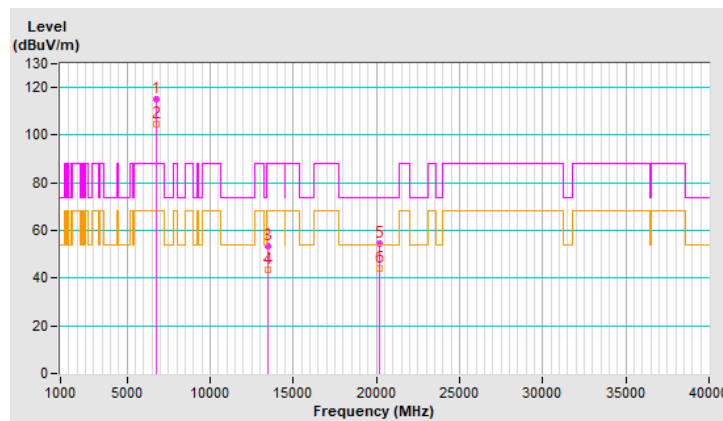


RF Mode	802.11ax (HE40)	Channel	CH 155 : 6725 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	115.0 PK			1.85 H	45	111.1	3.9
2	*6725.00	104.7 AV			1.85 H	45	100.8	3.9
3	#13450.00	53.5 PK	88.2	-34.7	2.29 H	98	41.2	12.3
4	#13450.00	43.6 AV	68.2	-24.6	2.29 H	98	31.3	12.3
5	20175.00	54.4 PK	74.0	-19.6	1.59 H	66	59.9	-5.5
6	20175.00	44.2 AV	54.0	-9.8	1.59 H	66	49.7	-5.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

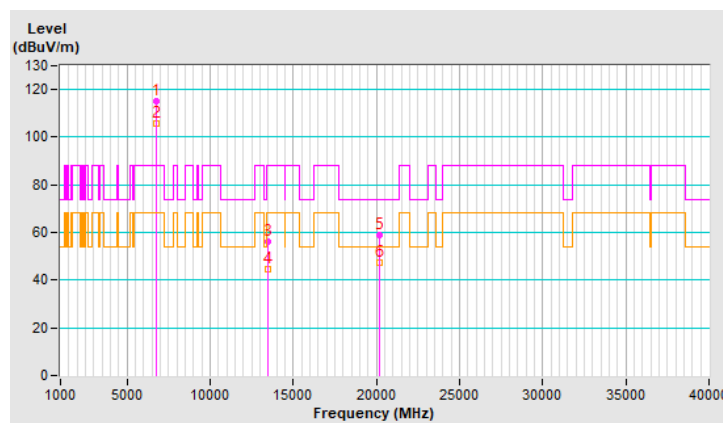


RF Mode	802.11ax (HE40)	Channel	CH 155 : 6725 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6725.00	115.1 PK			2.23 V	101	111.2	3.9
2	*6725.00	105.6 AV			2.23 V	101	101.7	3.9
3	#13450.00	56.1 PK	88.2	-32.1	1.17 V	235	43.8	12.3
4	#13450.00	44.4 AV	68.2	-23.8	1.17 V	235	32.1	12.3
5	20175.00	59.0 PK	74.0	-15.0	2.36 V	273	64.5	-5.5
6	20175.00	47.2 AV	54.0	-6.8	2.36 V	273	52.7	-5.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

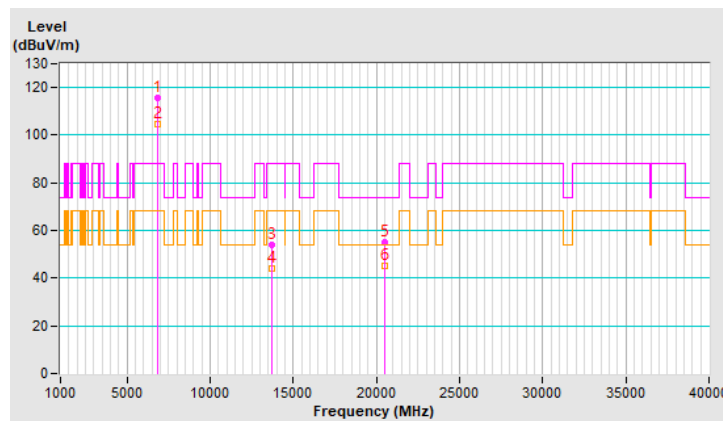


RF Mode	802.11ax (HE40)	Channel	CH 179 : 6845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	115.5 PK			1.81 H	56	111.4	4.1
2	*6845.00	104.7 AV			1.81 H	56	100.6	4.1
3	#13690.00	54.2 PK	88.2	-34.0	2.28 H	106	41.3	12.9
4	#13690.00	44.1 AV	68.2	-24.1	2.28 H	106	31.2	12.9
5	20535.00	55.3 PK	74.0	-18.7	1.68 H	73	60.1	-4.8
6	20535.00	44.9 AV	54.0	-9.1	1.68 H	73	49.7	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

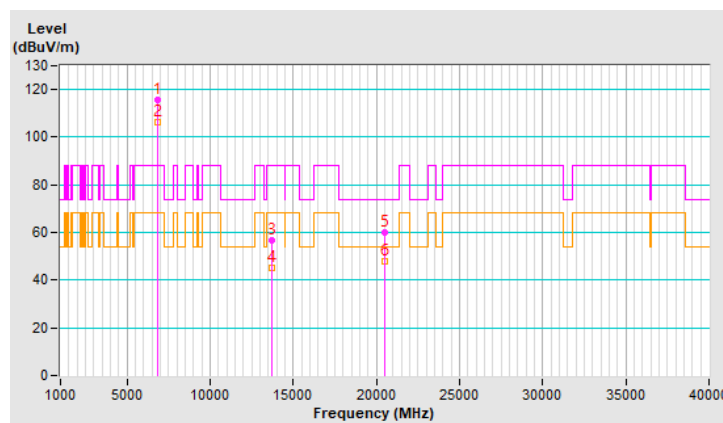


RF Mode	802.11ax (HE40)	Channel	CH 179 : 6845 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 300 Hz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6845.00	115.8 PK			2.28 V	126	111.7	4.1
2	*6845.00	106.1 AV			2.28 V	126	102.0	4.1
3	#13690.00	56.8 PK	88.2	-31.4	1.20 V	238	43.9	12.9
4	#13690.00	45.1 AV	68.2	-23.1	1.20 V	238	32.2	12.9
5	20535.00	59.8 PK	74.0	-14.2	2.37 V	290	64.6	-4.8
6	20535.00	47.8 AV	54.0	-6.2	2.37 V	290	52.6	-4.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

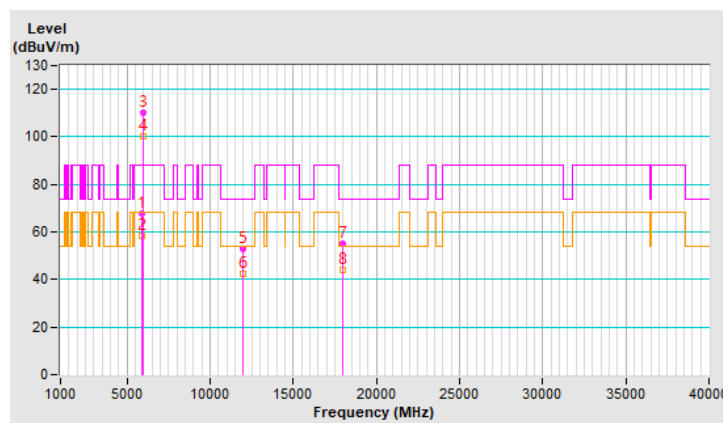


RF Mode	802.11ax (HE80)	Channel	CH 7 : 5985 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	67.8 PK	88.2	-20.4	1.87 H	89	66.3	1.5
2	#5925.00	58.5 AV	68.2	-9.7	1.87 H	89	57.0	1.5
3	*5985.00	110.2 PK			1.87 H	89	108.6	1.6
4	*5985.00	100.0 AV			1.87 H	89	98.4	1.6
5	11970.00	52.9 PK	74.0	-21.1	2.18 H	125	41.9	11.0
6	11970.00	42.2 AV	54.0	-11.8	2.18 H	125	31.2	11.0
7	17955.00	55.0 PK	74.0	-19.0	1.70 H	96	31.0	24.0
8	17955.00	44.2 AV	54.0	-9.8	1.70 H	96	20.2	24.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

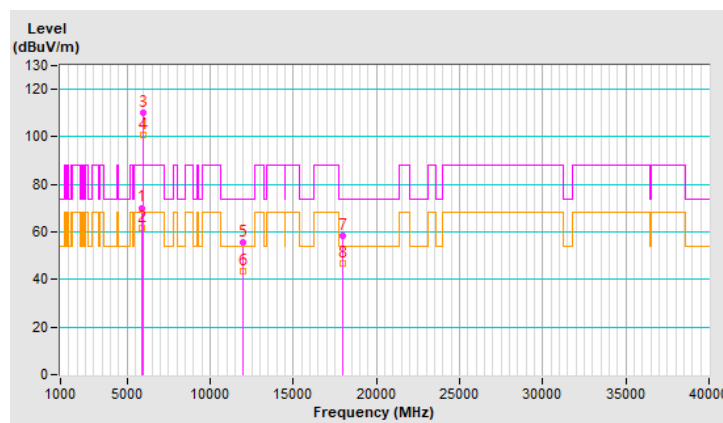


RF Mode	802.11ax (HE80)	Channel	CH 7 : 5985 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5925.00	70.2 PK	88.2	-18.0	2.29 V	87	68.7	1.5
2	#5925.00	61.5 AV	68.2	-6.7	2.29 V	87	60.0	1.5
3	*5985.00	109.9 PK			2.29 V	87	108.3	1.6
4	*5985.00	100.9 AV			2.29 V	87	99.3	1.6
5	11970.00	55.7 PK	74.0	-18.3	1.04 V	217	44.7	11.0
6	11970.00	43.4 AV	54.0	-10.6	1.04 V	217	32.4	11.0
7	17955.00	58.4 PK	74.0	-15.6	2.36 V	301	34.4	24.0
8	17955.00	46.9 AV	54.0	-7.1	2.36 V	301	22.9	24.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

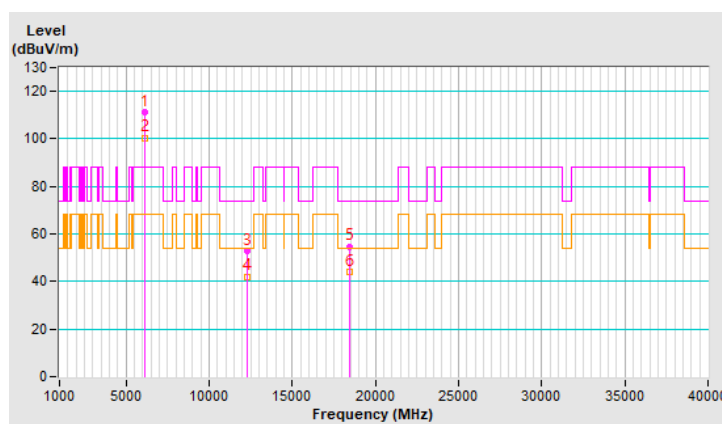


RF Mode	802.11ax (HE80)	Channel	CH 39 : 6145 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6145.00	111.0 PK			1.91 H	75	109.2	1.8
2	*6145.00	100.5 AV			1.91 H	75	98.7	1.8
3	12290.00	52.9 PK	74.0	-21.1	2.15 H	115	42.8	10.1
4	12290.00	42.1 AV	54.0	-11.9	2.15 H	115	32.0	10.1
5	18435.00	54.8 PK	74.0	-19.2	1.65 H	90	61.5	-6.7
6	18435.00	43.8 AV	54.0	-10.2	1.65 H	90	50.5	-6.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

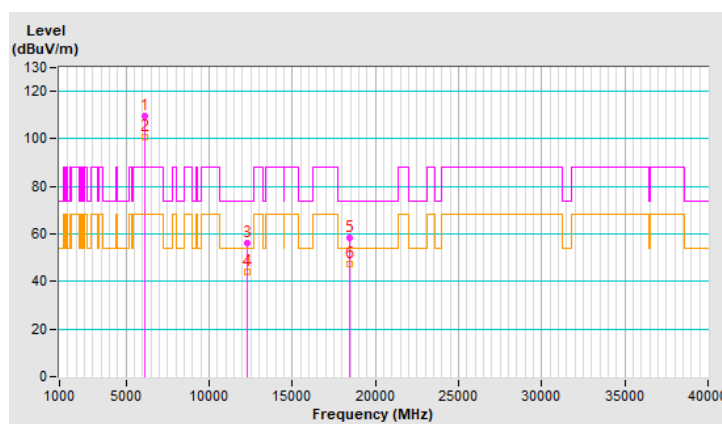


RF Mode	802.11ax (HE80)	Channel	CH 39 : 6145 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6145.00	109.8 PK			2.30 V	91	108.0	1.8
2	*6145.00	101.0 AV			2.30 V	91	99.2	1.8
3	12290.00	56.4 PK	74.0	-17.6	1.00 V	220	46.3	10.1
4	12290.00	43.8 AV	54.0	-10.2	1.00 V	220	33.7	10.1
5	18435.00	58.3 PK	74.0	-15.7	2.32 V	296	65.0	-6.7
6	18435.00	47.1 AV	54.0	-6.9	2.32 V	296	53.8	-6.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



RF Mode	802.11ax (HE80)	Channel	CH 87 : 6385 MHz
Frequency Range	1 GHz ~ 40 GHz	Detector Function & Bandwidth	(PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz
Input Power (System)	120 Vac, 60 Hz	Environmental Conditions	25°C, 68% RH
Tested By	Sampson Chen		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*6385.00	109.9 PK			1.93 H	97	106.9	3.0
2	*6385.00	99.8 AV			1.93 H	97	96.8	3.0
3	#12770.00	52.9 PK	88.2	-35.3	2.18 H	137	42.5	10.4
4	#12770.00	42.1 AV	68.2	-26.1	2.18 H	137	31.7	10.4
5	19155.00	55.0 PK	74.0	-19.0	1.76 H	101	61.3	-6.3
6	19155.00	44.5 AV	54.0	-9.5	1.76 H	101	50.8	-6.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.
6. " # " : The radiated frequency is out of the restricted band.

