FCC Test Report

Report No.:	RFBDYS-WTW-P20110911A
FCC ID:	TVE-371CBE0271
Test Model:	FAP-U234F
Series Model:	FortiAP U234Fxxxxxx, FAP-U234Fxxxxxx, FORTIAP-U234Fxxxxxx (Where “x” can be used as “A-Z”, or “0-9”, or “- “, or blank for software changes or marketing purposes only)
Received Date:	Nov. 29, 2020
Test Date:	Dec. 25, 2020 ~ May 27, 2021
Issued Date:	Oct. 21, 2021
Applicant:	Fortinet, Inc.
Address:	899 Kifer Road Sunnyvale, CA 94086 USA
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN
FCC Registration / Designation Number:	788550 / TW0003

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Release Control Record

Issue No.	Description	Date Issued
RFBDYS-WTW-P20110911A	Original Release	Oct. 21, 2021

1 Certificate of Conformity

Product:	Secured Wireless Access Point
Brand:	Fortinet
Test Model:	FAP-U234F
Series Model:	FortiAP U234Fxxxxxx, FAP-U234Fxxxxxx, FORTIAP-U234Fxxxxxx (Where “x” can be used as “A-Z”, or “0-9”, or “- “, or blank for software changes or marketing purposes only)
Sample Status:	Engineering Sample
Applicant:	Fortinet, Inc.
Test Date:	Dec. 25, 2020 ~ May 27, 2021
Standards:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10:2013

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.

Prepared by : Lena Wang , **Date:** Oct. 21, 2021

Lena Wang / Specialist

Approved by : , **Date:** Oct. 21, 2021

Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(8)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -5.02dB at 0.47800MHz.
15.407(b) (1/2/3/4(i/ii)/8)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -0.7dB at 5470.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is IPEX not a standard connector.

Note:

1. For U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
2. 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	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Secured Wireless Access Point
Brand	Fortinet
Test Model	FAP-U234F
Series Model	FortiAP U234Fxxxxxx, FAP-U234Fxxxxxx, FORTIAP-U234Fxxxxxx (Where “x” can be used as “A-Z”, or “0-9”, or “- “, or blank for software changes or marketing purposes only)
Model Difference	Refer to note
Sample Status	Engineering Sample
Power Supply Rating	54Vdc from POE
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n (HT20/40): up to 300Mbps 802.11ac (VHT20/40/80): up to 866.7Mbps 802.11ax: up to 1201Mbps
Operating Frequency	5260 ~ 5320MHz, 5500 ~ 5720MHz
Number of Channel	5260 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 4 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3
Output Power	5G traffic radio (Radio 1): CDD Mode: 5500 ~ 5720MHz: 79.345 mW Beamforming Mode: 5500 ~ 5720MHz: 39.675 mW 5G traffic radio (Radio 2): CDD Mode: 5260 ~ 5320MHz: 67.529 mW 5500 ~ 5720MHz: 86.709 mW Beamforming Mode: 5260 ~ 5320MHz: 33.767 mW 5500 ~ 5720MHz: 43.357 mW Scanning radio (Radio 3): CDD Mode: 5260 ~ 5320MHz: 209.668 mW 5500 ~ 5720MHz: 200.176 mW Beamforming Mode: 5260 ~ 5320MHz: 104.841 mW 5500 ~ 5720MHz: 100.095 mW

Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	POE
Cable Supplied	0.5m non-shielded AC Power cable 1.75m non-shielded Grounding cable

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report (BV CPS report no.: RFBDYS-WTW-P20110911-1) is adding 5.26GHz to 5.32GHz and 5.50GHz to 5.72GHz by software.
2. The following models are provided to this EUT. The model FAP-U234F was chosen for final test.

Brand	Model	Description
Fortinet	FAP-U234F	where “x” can be used as “A-Z”, or “-0-9”, or “-“, or blank for software changes or marketing purposes only
	FortiAP U234Fxxxxxx	
	FAP-U234Fxxxxxx	
	FORTIAP-U234Fxxxxxx	

3. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Radio	Modulation Mode	Beamforming Mode	TX Function
5G traffic radio (Radio 1)	802.11a	Not Support	2TX
	802.11n (HT20)	Not Support	2TX
	802.11n (HT40)	Not Support	2TX
	802.11ac (VHT20)	Support	2TX
	802.11ac (VHT40)	Support	2TX
	802.11ac (VHT80)	Support	2TX
	802.11ax (HE20)	Support	2TX
	802.11ax (HE40)	Support	2TX
	802.11ax (HE80)	Support	2TX
5G traffic radio (Radio 2)	802.11a	Not Support	2TX
	802.11n (HT20)	Not Support	2TX
	802.11n (HT40)	Not Support	2TX
	802.11ac (VHT20)	Support	2TX
	802.11ac (VHT40)	Support	2TX
	802.11ac (VHT80)	Support	2TX
	802.11ax (HE20)	Support	2TX
	802.11ax (HE40)	Support	2TX
	802.11ax (HE80)	Support	2TX
Scanning radio (Radio 3)	802.11a	Not Support	2TX
	802.11n (HT20)	Not Support	2TX
	802.11n (HT40)	Not Support	2TX
	802.11ac (VHT20)	Support	2TX
	802.11ac (VHT40)	Support	2TX
	802.11ac (VHT80)	Support	2TX
	802.11ax (HE20)	Support	2TX
	802.11ax (HE40)	Support	2TX
	802.11ax (HE80)	Support	2TX

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40/VHT80 on 802.11ac mode and HE20/HE40/HE80 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

* For 802.11n, 802.11ac, CDD mode and Beamforming mode are presented in power output test item. For other test items, CDD mode is the worst case for final tests after pretesting.

4. The EUT consumes power from the following POE.

POE	
Brand	SENAO
Model	EPA5006GPR-4P
Input Power	100-240Vac, 50-60Hz, 0.8A
Output Power	54V, 0.6A

5. The following antennas were provided to the EUT.

No.	Type	Connector	Gain (dBi)						Remark
			2400MHz	2450MHz	2500MHz	5150MHz	5500MHz	5850MHz	
1	Patch Array	IPEX	9.45	10.15	9.77	-	-	-	2G traffic radio (Radio 1)
2	Patch Array	IPEX	9.21	10.12	10.33	-	-	-	
3	Patch Array	IPEX	-	-	-	9.55	10.23	10.13	5G traffic radio (Radio 1)
4	Patch Array	IPEX	-	-	-	9.87	10.39	10.82	
5	Patch Array	IPEX	-	-	-	9.52	10.29	10.16	5G traffic radio (Radio 2)
6	Patch Array	IPEX	-	-	-	9.79	10.21	10.54	
7	Dipole	IPEX	4.21	4.23	4.64	4.56	4.00	4.12	Scanning radio (Radio 3)
8	Dipole	IPEX	3.28	4.33	4.05	4.51	4.45	4.91	
9	Dipole	IPEX	3.68	4.22	4.00	-	-	-	BT LE / Zigbee

* The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

6. The simultaneous operation mode was determined by client.

No	Mode
1	2G traffic radio (Radio 1) + 5GHz traffic radio (Radio 2) + 5G Scanning radio (Radio 3) + BLE
2	5G traffic radio (Radio 1) + 5GHz traffic radio (Radio 2) + 2G Scanning radio (Radio 3) + BLE
3	5G traffic radio (Radio 1) + 5GHz traffic radio (Radio 2) + 5G Scanning radio (Radio 3) + BLE
4	2G traffic radio (Radio 1) + 5GHz traffic radio (Radio 2) + 5G Scanning radio (Radio 3) + Zigbee
5	5G traffic radio (Radio 1) + 5GHz traffic radio (Radio 2) + 2G Scanning radio (Radio 3) + Zigbee
5	5G traffic radio (Radio 1) + 5GHz traffic radio (Radio 2) + 5G Scanning radio (Radio 3) + Zigbee

* 5GHz traffic radio (Radio 2) and 5G Scanning radio (Radio 3) cannot transmit in the same band at same time. 2G traffic radio (Radio 1) and 2G Scanning radio (Radio 3) cannot transmit at same time.

* 5GHz traffic radio (Radio1) and 5GHz traffic radio (Radio2) cannot transmit at the same time in the UNII-3 band.

* Zigbee and BT technologies cannot transmit at same time.

* Spurious emission of the simultaneous operation has been evaluated and no non-compliance was found.

3.2 Description of Test Modes

For 5260 ~ 5320MHz:

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency
58	5290MHz

For 5500 ~ 5720MHz:

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz	144	5720 MHz

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz	142	5710 MHz

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
106	5530 MHz	122	5610 MHz
138	5690 MHz		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	*

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
2. "-": Means no effect.
3. Radiated Emission below 1GHz and Power Line Conducted Emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	Radio 1
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
-	802.11a	5260-5320	52 to 64	52, 56, 60, 64	OFDM	6.0	Radio 2
	802.11ax (HE20)		52 to 64	52, 56, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
-	802.11a	5260-5320	52 to 64	52, 56, 60, 64	OFDM	6.0	Radio 3
	802.11ax (HE20)		52 to 64	52, 56, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
-	802.11ax (HE20)	5500-5720	100 to 144	140	OFDMA	MCS0	Radio 1
	802.11ax (HE80)		106 to 138	106	OFDMA	MCS0	Radio 2
	802.11a		100 to 144	116	OFDM	6.0	Radio 3

Power Line Conducted Emission Test:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
-	802.11ax (HE20)	5500-5720	100 to 144	140	OFDMA	MCS0	Radio 1
	802.11ax (HE80)		106 to 138	106	OFDMA	MCS0	Radio 2
	802.11a		100 to 144	116	OFDM	6.0	Radio 3

Antenna Port Conducted Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)	Remark
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	Radio 1
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0	Radio 2
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0	Radio 3
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	MCS0	
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	MCS0	
	802.11ax (HE80)		58	58	OFDMA	MCS0	
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0	
	802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	MCS0	
	802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	MCS0	
	802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	MCS0	

* 802.11a, 802.11n, 802.11ac, 802.11ax modes are for conducted output power measuremenst only. For other test items, only test 802.11a, 802.11ax modes.

Test Condition:

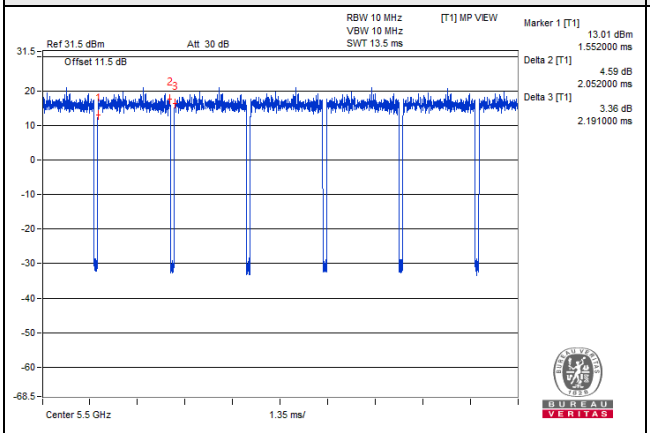
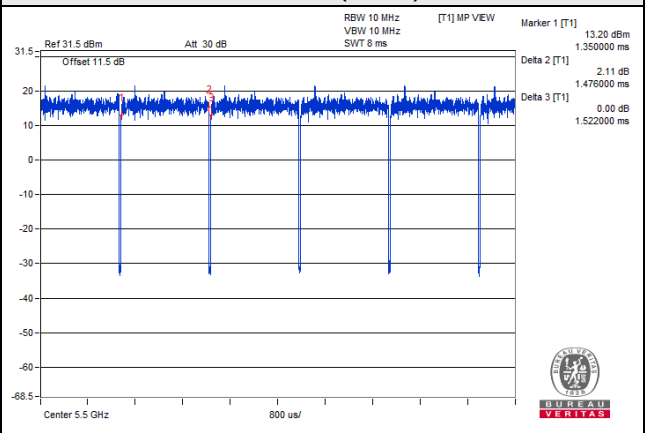
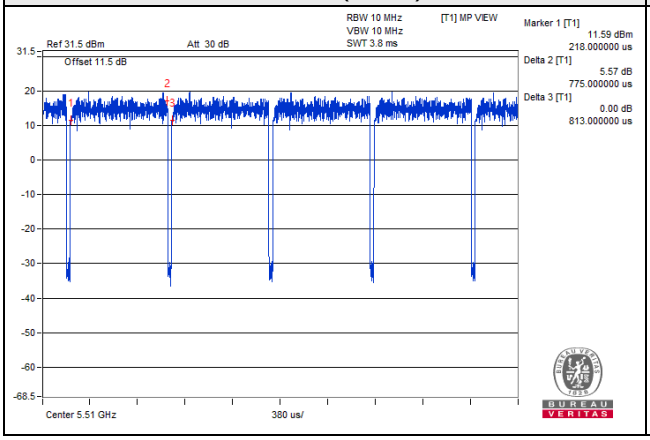
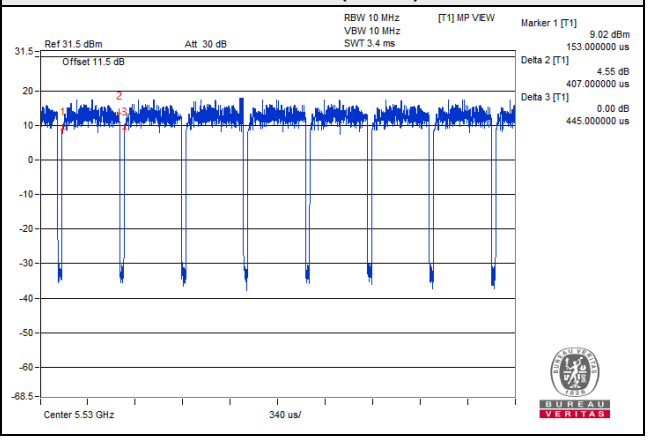
Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	22 deg. C, 69% RH	54Vdc	Titan Hsu
RE<1G	23 deg. C, 66% RH	54Vdc	Adair Peng
PLC	25 deg. C, 75% RH	54Vdc	Adair Peng
APCM	25 deg. C, 60% RH	54Vdc	Alan Wu

3.3 Duty Cycle of Test Signal

5G traffic radio (Radio 1)

Duty cycle of test signal is < 98%, duty factor is required.

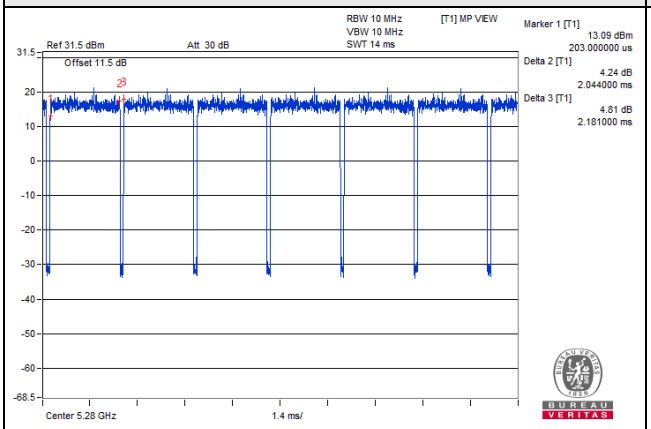
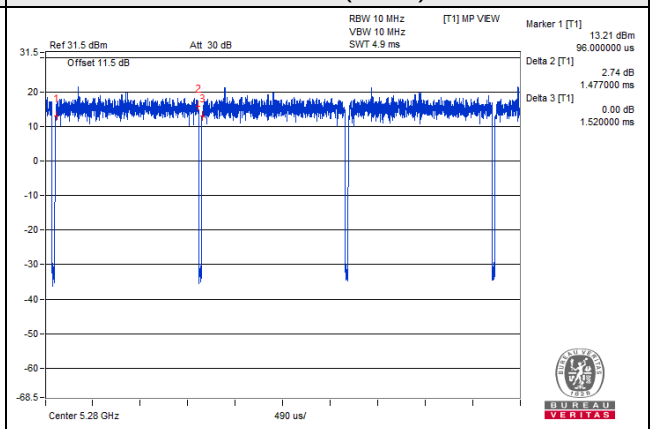
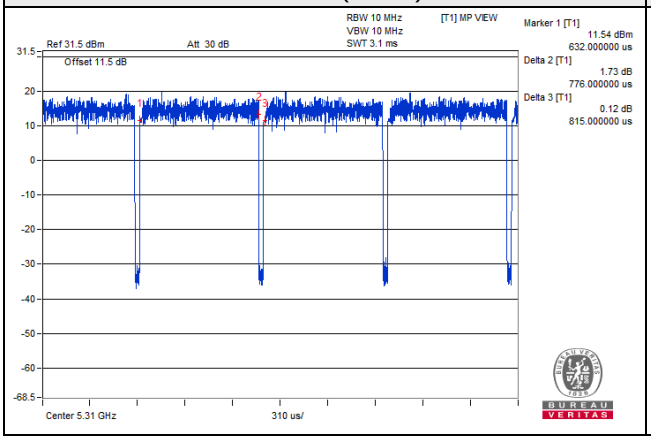
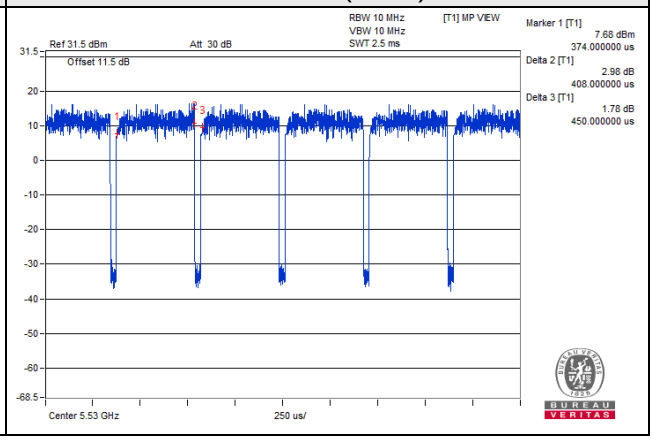
802.11a: Duty cycle = 2.052/2.191 = 0.937, Duty factor = 10 * log (1/0.937) = 0.28
802.11ax (HE20): Duty cycle = 1.476/1.522 = 0.97, Duty factor = 10 * log (1/0.97) = 0.13
802.11ax (HE40): Duty cycle = 0.775/0.813 = 0.953, Duty factor = 10 * log (1/0.953) = 0.21
802.11ax (HE80): Duty cycle = 0.407/0.445 = 0.915, Duty factor = 10 * log (1/0.915) = 0.39

802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

5G traffic radio (Radio 2)

Duty cycle of test signal is < 98%, duty factor is required.

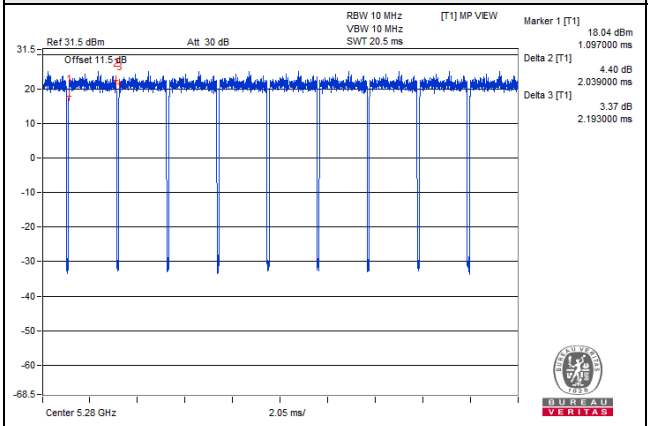
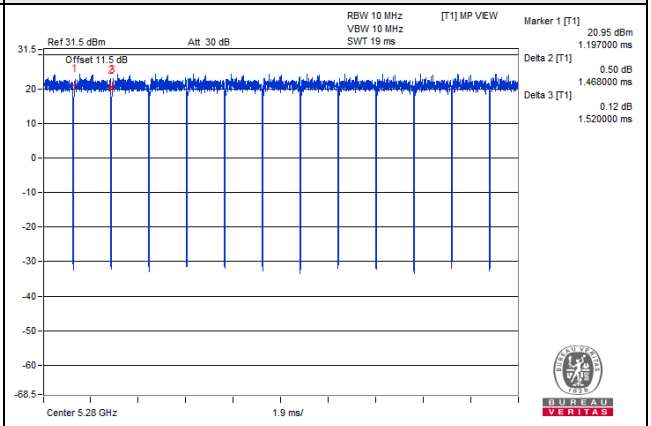
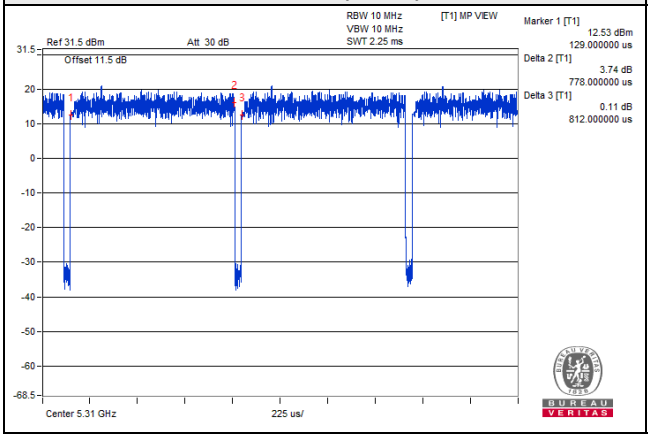
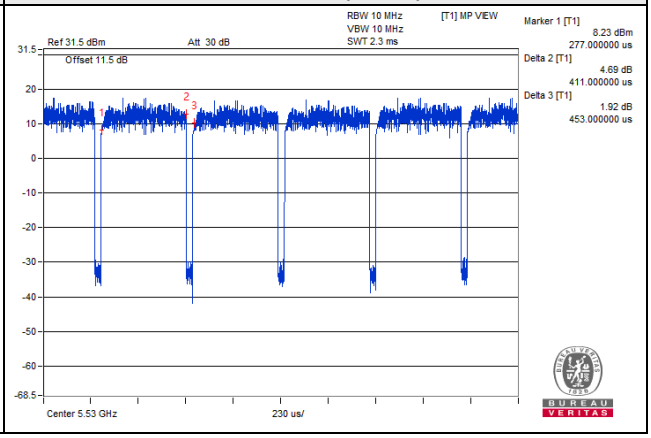
802.11a: Duty cycle = 2.044/2.181 = 0.937, Duty factor = 10 * log (1/0.937) = 0.28
802.11ax (HE20): Duty cycle = 1.477/1.52 = 0.972, Duty factor = 10 * log (1/0.972) = 0.12
802.11ax (HE40): Duty cycle = 0.776/0.815 = 0.952, Duty factor = 10 * log (1/0.952) = 0.21
802.11ax (HE80): Duty cycle = 0.408/0.450 = 0.907, Duty factor = 10 * log (1/0.907) = 0.43

802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

Scanning radio (Radio 3)

Duty cycle of test signal is < 98%, duty factor is required.

802.11a: Duty cycle = 2.039/2.193 = 0.93, Duty factor = 10 * log (1/0.93) = 0.32
802.11ax (HE20): Duty cycle = 1.468/1.52 = 0.966, Duty factor = 10 * log (1/0.966) = 0.15
802.11ax (HE40): Duty cycle = 0.778/0.812 = 0.958, Duty factor = 10 * log (1/0.958) = 0.19
802.11ax (HE80): Duty cycle = 0.411/0.453 = 0.907, Duty factor = 10 * log (1/0.907) = 0.42

802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

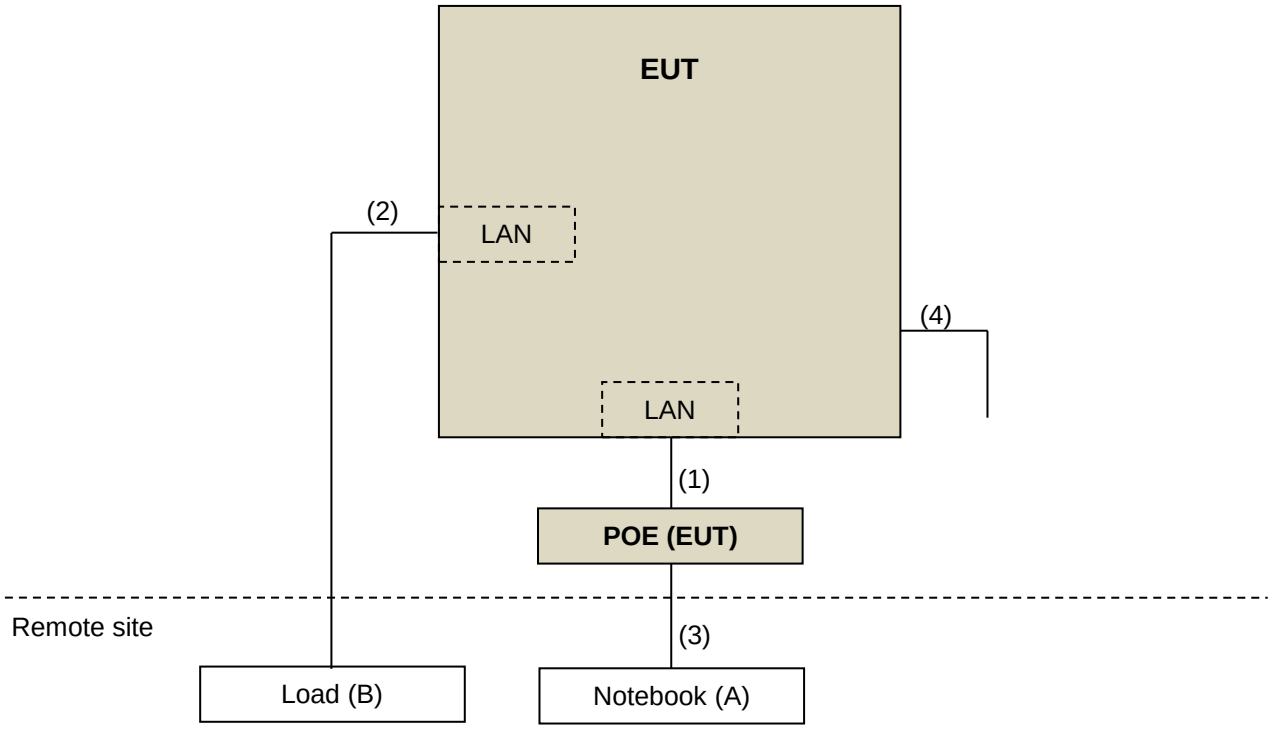
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	Load	NA	NA	NA	NA	-

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN	1	1.5	N	0	RJ45, Cat5e
2.	LAN	1	1.5	N	0	RJ45, Cat5e
3.	LAN	1	6	N	0	RJ45, Cat5e
4.	Console	1	1.5	N	0	-

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:
FCC Part 15, Subpart E (15.407)
ANSI C63.10:2013

All test items have been performed and recorded as per the above standards.

References Test Guidance:
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

Note:

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 1000MHz, 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 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

<table>
<tr><td colspan="3">Applicable To</td><td colspan="2">Limit</td></tr>
<tr><td colspan="3" rowspan="2">789033 D02 General UNII Test Procedure New Rules v02r01</td><td colspan="2">Field Strength at 3m</td></tr>
<tr><td>PK: 74 (dBµV/m)</td><td>AV: 54 (dBµV/m)</td></tr>
<tr><td>Frequency Band</td><td colspan="2">Applicable To</td><td>EIRP Limit</td><td>Equivalent Field Strength at 3m</td></tr>
<tr><td>5150~5250 MHz</td><td colspan="2">15.407(b)(1)</td><td rowspan="3">PK: -27 (dBm/MHz)</td><td rowspan="3">PK: 68.2(dBµV/m)</td></tr>
<tr><td>5250~5350 MHz</td><td colspan="2">15.407(b)(2)</td></tr>
<tr><td>5470~5725 MHz</td><td colspan="2">15.407(b)(3)</td></tr>
<tr><td rowspan="2">5725~5850 MHz</td><td>☒</td><td>15.407(b)(4)(i)</td><td>PK: -27 (dBm/MHz) *1
PK: 10 (dBm/MHz) *2
PK: 15.6 (dBm/MHz) *3
PK: 27 (dBm/MHz) *4</td><td>PK: 68.2(dBµV/m) *1
PK: 105.2 (dBµV/m) *2
PK: 110.8(dBµV/m) *3
PK: 122.2 (dBµV/m) *4</td></tr>
<tr><td>☐</td><td>15.407(b)(4)(ii)</td><td colspan="2">Emission limits in section 15.247(d)</td></tr>
<tr><td colspan="5">*1 beyond 75 MHz or more above of the band edge.
*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</td></tr>
</table>

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 09, 2020	Jun. 08, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 04, 2020	Nov. 03, 2021
HORN Antenna SCHWARZBECK	9120D	209	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna TESEQ	HLA 6121	45745	Jul. 06, 2020	Jul. 05, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 16, 2020	Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 23, 2020	Mar. 22, 2021
			Mar. 22, 2021	Mar. 21, 2022
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM- SM-8000	Cable-CH3-03 (309224+170907)	Aug. 16, 2020	Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 04, 2020	Sep. 03, 2021
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY5519 0004/MY55190007/MY 55210005	Jul. 13, 2020	Jul. 12, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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 detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

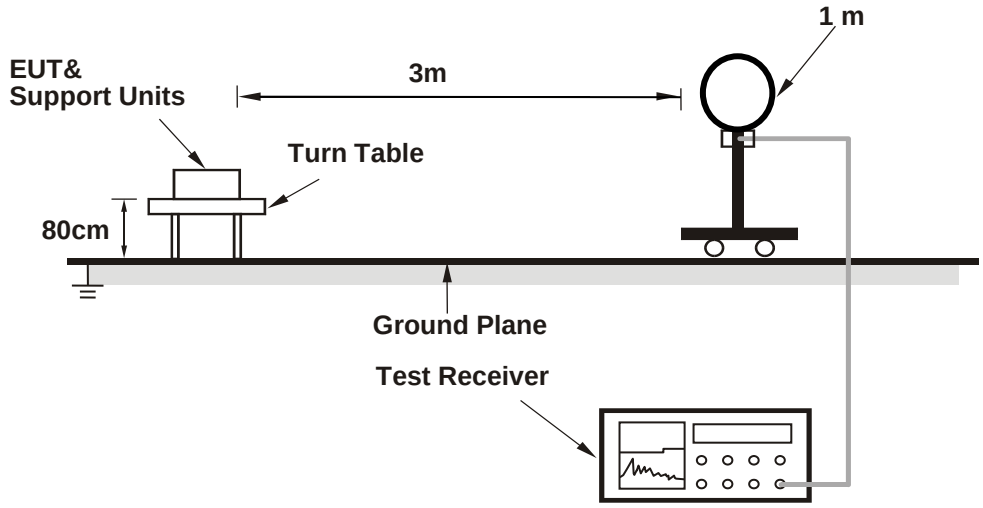
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz. (802.11a: RBW = 1Hz, VBW = 510Hz; 802.11ax (HE20): RBW = 1MHz, VBW = 1kHz; 802.11ax (HE40): RBW = 1MHz, VBW = 2kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 3kHz)
   All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

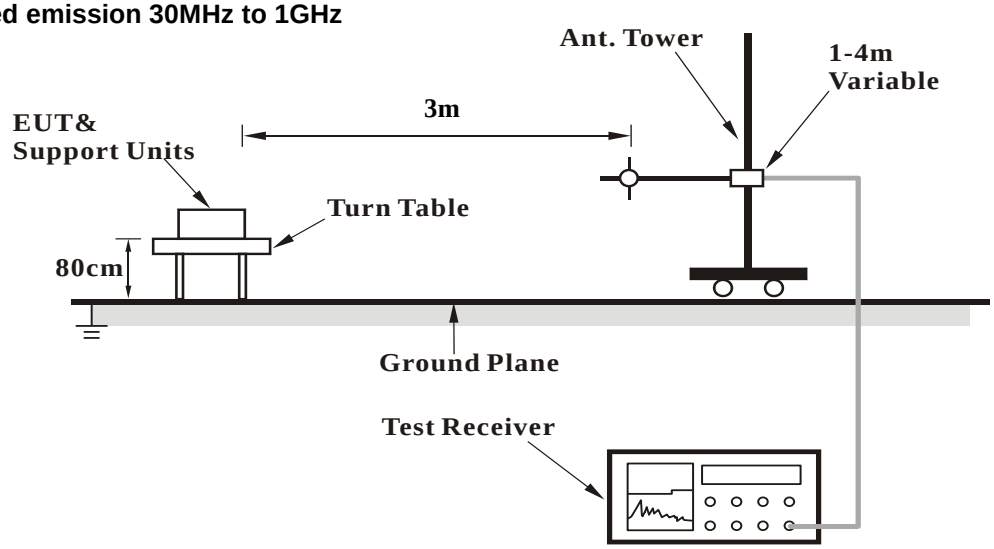
No deviation.

4.1.5 Test Setup

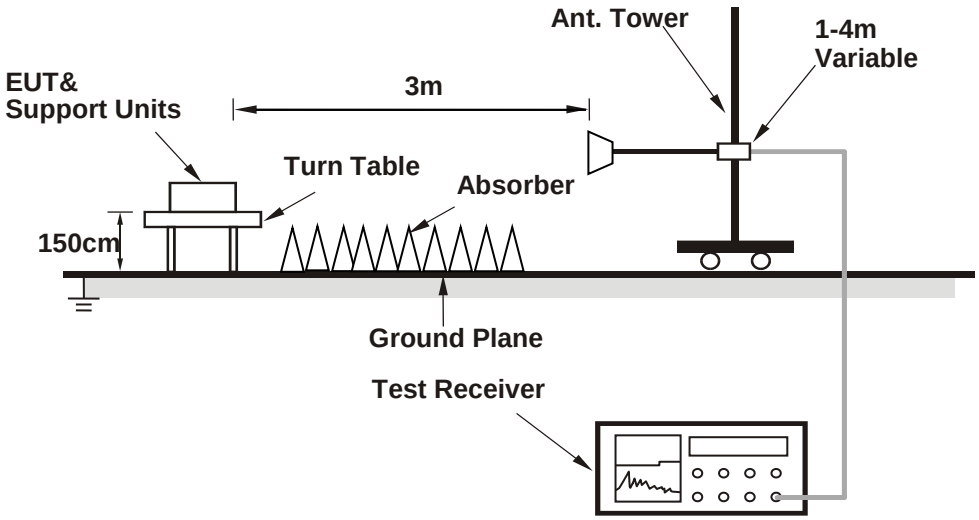
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

a. Placed the EUT on the testing table.
b. Prepared a notebook to act as a communication partner and placed it outside of testing area.
c. The communication partner connected with EUT via a RJ45 cable and ran a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.
d. The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Above 1GHz data:

5G traffic radio (Radio 1)

RF Mode	TX 802.11a	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	58.4 PK	74.0	-15.6	1.39 H	352	52.1	6.3
2	5460.00	46.3 AV	54.0	-7.7	1.39 H	352	40.0	6.3
3	#5470.00	60.5 PK	68.2	-7.7	1.37 H	356	54.2	6.3
4	*5500.00	119.3 PK			1.67 H	308	77.2	42.1
5	*5500.00	109.1 AV			1.67 H	308	67.0	42.1
6	11000.00	60.2 PK	74.0	-13.8	1.69 H	322	41.6	18.6
7	11000.00	47.4 AV	54.0	-6.6	1.69 H	322	28.8	18.6
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	5460.00	58.2 PK	74.0	-15.8	1.55 V	343	51.9	6.3
2	5460.00	45.9 AV	54.0	-8.1	1.55 V	343	39.6	6.3
3	#5470.00	60.3 PK	68.2	-7.9	1.57 V	347	54.0	6.3
4	*5500.00	117.8 PK			1.57 V	349	75.7	42.1
5	*5500.00	108.4 AV			1.57 V	349	66.3	42.1
6	11000.00	60.5 PK	74.0	-13.5	1.52 V	344	41.9	18.6
7	11000.00	47.5 AV	54.0	-6.5	1.52 V	344	28.9	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5580.00	119.4 PK			1.42 H	1	77.3	42.1
2	*5580.00	109.5 AV			1.42 H	1	67.4	42.1
3	11160.00	60.3 PK	74.0	-13.7	1.69 H	311	41.8	18.5
4	11160.00	47.4 AV	54.0	-6.6	1.69 H	311	28.9	18.5
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	*5580.00	118.4 PK			1.57 V	349	76.3	42.1
2	*5580.00	108.8 AV			1.57 V	349	66.7	42.1
3	11160.00	60.6 PK	74.0	-13.4	1.29 V	341	42.1	18.5
4	11160.00	47.4 AV	54.0	-6.6	1.29 V	341	28.9	18.5

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.

RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5700.00	119.4 PK			1.38 H	358	77.1	42.3
2	*5700.00	109.2 AV			1.38 H	358	66.9	42.3
3	#5725.00	61.3 PK	68.2	-6.9	1.39 H	357	54.8	6.5
4	11400.00	59.7 PK	74.0	-14.3	1.65 H	321	41.8	17.9
5	11400.00	46.7 AV	54.0	-7.3	1.65 H	321	28.8	17.9
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	*5700.00	119.2 PK			1.58 V	346	76.9	42.3
2	*5700.00	108.9 AV			1.58 V	346	66.6	42.3
3	#5725.00	61.7 PK	68.2	-6.5	1.56 V	351	55.2	6.5
4	11400.00	59.8 PK	74.0	-14.2	1.42 V	342	41.9	17.9
5	11400.00	46.7 AV	54.0	-7.3	1.42 V	342	28.8	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.0 PK	68.2	-10.2	1.35 H	355	51.7	6.3
2	*5720.00	118.7 PK			1.32 H	358	76.5	42.2
3	*5720.00	108.5 AV			1.32 H	358	66.3	42.2
4	#5850.00	58.6 PK	68.2	-9.6	1.39 H	352	51.8	6.8
5	11440.00	60.1 PK	74.0	-13.9	1.68 H	325	42.1	18.0
6	11440.00	47.0 AV	54.0	-7.0	1.68 H	325	29.0	18.0
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	#5470.00	57.9 PK	68.2	-10.3	1.44 V	342	51.6	6.3
2	*5720.00	118.3 PK			1.49 V	348	76.1	42.2
3	*5720.00	108.2 AV			1.49 V	348	66.0	42.2
4	#5850.00	58.8 PK	68.2	-9.4	1.52 V	343	52.0	6.8
5	11440.00	60.0 PK	74.0	-14.0	1.43 V	341	42.0	18.0
6	11440.00	46.8 AV	54.0	-7.2	1.43 V	341	28.8	18.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	57.8 PK	74.0	-16.2	1.72 H	355	51.5	6.3
2	5460.00	45.8 AV	54.0	-8.2	1.72 H	355	39.5	6.3
3	#5470.00	60.1 PK	68.2	-8.1	1.80 H	352	53.8	6.3
4	*5500.00	120.9 PK			1.46 H	1	78.8	42.1
5	*5500.00	107.6 AV			1.46 H	1	65.5	42.1
6	11000.00	60.5 PK	74.0	-13.5	1.72 H	325	41.9	18.6
7	11000.00	47.5 AV	54.0	-6.5	1.72 H	325	28.9	18.6
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	5460.00	58.3 PK	74.0	-15.7	1.55 V	343	52.0	6.3
2	5460.00	45.6 AV	54.0	-8.4	1.55 V	343	39.3	6.3
3	#5470.00	59.4 PK	68.2	-8.8	1.52 V	346	53.1	6.3
4	*5500.00	119.5 PK			1.59 V	345	77.4	42.1
5	*5500.00	106.8 AV			1.59 V	345	64.7	42.1
6	11000.00	60.5 PK	74.0	-13.5	1.32 V	342	41.9	18.6
7	11000.00	47.3 AV	54.0	-6.7	1.32 V	342	28.7	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5580.00	121.6 PK			1.42 H	351	79.5	42.1
2	*5580.00	108.5 AV			1.42 H	351	66.4	42.1
3	11160.00	60.6 PK	74.0	-13.4	1.58 H	329	42.1	18.5
4	11160.00	47.7 AV	54.0	-6.3	1.58 H	329	29.2	18.5
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	*5580.00	120.4 PK			1.51 V	349	78.3	42.1
2	*5580.00	107.9 AV			1.51 V	349	65.8	42.1
3	11160.00	60.6 PK	74.0	-13.4	1.55 V	345	42.1	18.5
4	11160.00	47.5 AV	54.0	-6.5	1.55 V	345	29.0	18.5

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5700.00	121.5 PK			1.29 H	357	79.2	42.3
2	*5700.00	108.6 AV			1.29 H	357	66.3	42.3
3	#5725.00	63.9 PK	68.2	-4.3	1.29 H	360	57.4	6.5
4	11400.00	59.8 PK	74.0	-14.2	1.58 H	319	41.9	17.9
5	11400.00	46.8 AV	54.0	-7.2	1.58 H	319	28.9	17.9
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	*5700.00	121.2 PK			1.54 V	347	78.9	42.3
2	*5700.00	108.3 AV			1.54 V	347	66.0	42.3
3	#5725.00	65.4 PK	68.2	-2.8	1.50 V	348	58.9	6.5
4	11400.00	60.0 PK	74.0	-14.0	1.33 V	339	42.1	17.9
5	11400.00	46.7 AV	54.0	-7.3	1.33 V	339	28.8	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	57.8 PK	68.2	-10.4	1.32 H	355	51.5	6.3
2	*5720.00	120.0 PK			1.30 H	357	77.8	42.2
3	*5720.00	107.9 AV			1.30 H	357	65.7	42.2
4	#5850.00	58.8 PK	68.2	-9.4	1.35 H	352	52.0	6.8
5	11440.00	59.9 PK	74.0	-14.1	1.59 H	319	41.9	18.0
6	11440.00	46.9 AV	54.0	-7.1	1.59 H	319	28.9	18.0
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	#5470.00	57.8 PK	68.2	-10.4	1.43 V	344	51.5	6.3
2	*5720.00	119.8 PK			1.47 V	347	77.6	42.2
3	*5720.00	107.7 AV			1.47 V	347	65.5	42.2
4	#5850.00	58.9 PK	68.2	-9.3	1.51 V	349	52.1	6.8
5	11440.00	59.9 PK	74.0	-14.1	1.36 V	346	41.9	18.0
6	11440.00	46.9 AV	54.0	-7.1	1.36 V	346	28.9	18.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	61.7 PK	74.0	-12.3	1.42 H	345	55.4	6.3
2	5460.00	47.9 AV	54.0	-6.1	1.42 H	345	41.6	6.3
3	#5470.00	64.0 PK	68.2	-4.2	1.45 H	350	57.7	6.3
4	*5510.00	117.7 PK			1.42 H	1	75.6	42.1
5	*5510.00	104.8 AV			1.42 H	1	62.7	42.1
6	11020.00	60.7 PK	74.0	-13.3	1.66 H	321	42.1	18.6
7	11020.00	47.6 AV	54.0	-6.4	1.66 H	321	29.0	18.6
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	5460.00	60.0 PK	74.0	-14.0	1.52 V	344	53.7	6.3
2	5460.00	47.2 AV	54.0	-6.8	1.52 V	344	40.9	6.3
3	#5470.00	63.9 PK	68.2	-4.3	1.59 V	350	57.6	6.3
4	*5510.00	116.2 PK			1.56 V	346	74.1	42.1
5	*5510.00	104.4 AV			1.56 V	346	62.3	42.1
6	11020.00	60.4 PK	74.0	-13.6	1.42 V	348	41.8	18.6
7	11020.00	47.5 AV	54.0	-6.5	1.42 V	348	28.9	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5550.00	118.4 PK			1.40 H	347	76.3	42.1
2	*5550.00	105.5 AV			1.40 H	347	63.4	42.1
3	11100.00	60.4 PK	74.0	-13.6	1.59 H	316	42.1	18.3
4	11100.00	47.4 AV	54.0	-6.6	1.59 H	316	29.1	18.3
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	*5550.00	117.4 PK			1.61 V	349	75.3	42.1
2	*5550.00	104.9 AV			1.61 V	349	62.8	42.1
3	11100.00	60.4 PK	74.0	-13.6	1.29 V	344	42.1	18.3
4	11100.00	47.2 AV	54.0	-6.8	1.29 V	344	28.9	18.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5670.00	118.1 PK			1.40 H	3	75.9	42.2
2	*5670.00	105.1 AV			1.40 H	3	62.9	42.2
3	#5725.00	61.4 PK	68.2	-6.8	1.44 H	344	54.9	6.5
4	11340.00	60.0 PK	74.0	-14.0	1.59 H	309	41.9	18.1
5	11340.00	47.1 AV	54.0	-6.9	1.59 H	309	29.0	18.1
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	*5670.00	116.9 PK			1.60 V	345	74.7	42.2
2	*5670.00	104.6 AV			1.60 V	345	62.4	42.2
3	#5725.00	61.0 PK	68.2	-7.2	1.62 V	355	54.5	6.5
4	11340.00	60.0 PK	74.0	-14.0	1.22 V	345	41.9	18.1
5	11340.00	47.0 AV	54.0	-7.0	1.22 V	345	28.9	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142：5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	57.8 PK	68.2	-10.4	1.42 H	359	51.5	6.3
2	*5710.00	117.8 PK			1.39 H	355	75.5	42.3
3	*5710.00	105.0 AV			1.39 H	355	62.7	42.3
4	#5850.00	58.2 PK	68.2	-10.0	1.44 H	356	51.4	6.8
5	11420.00	59.9 PK	74.0	-14.1	1.52 H	312	42.0	17.9
6	11420.00	46.7 AV	54.0	-7.3	1.52 H	312	28.8	17.9
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	#5470.00	58.3 PK	68.2	-9.9	1.55 V	355	52.0	6.3
2	*5710.00	117.3 PK			1.53 V	351	75.0	42.3
3	*5710.00	105.0 AV			1.53 V	351	62.7	42.3
4	#5850.00	58.5 PK	68.2	-9.7	1.51 V	353	51.7	6.8
5	11420.00	60.0 PK	74.0	-14.0	1.26 V	352	42.1	17.9
6	11420.00	46.8 AV	54.0	-7.2	1.26 V	352	28.9	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	62.1 PK	74.0	-11.9	1.52 H	6	55.8	6.3
2	5460.00	48.8 AV	54.0	-5.2	1.52 H	6	42.5	6.3
3	#5470.00	63.0 PK	68.2	-5.2	1.54 H	4	56.7	6.3
4	*5530.00	114.8 PK			1.38 H	344	72.7	42.1
5	*5530.00	102.6 AV			1.38 H	344	60.5	42.1
6	#5725.00	58.1 PK	68.2	-10.1	1.55 H	1	51.6	6.5
7	11060.00	60.2 PK	74.0	-13.8	1.53 H	312	41.8	18.4
8	11060.00	47.3 AV	54.0	-6.7	1.53 H	312	28.9	18.4
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	5460.00	62.2 PK	74.0	-11.8	1.55 V	345	55.9	6.3
2	5460.00	48.8 AV	54.0	-5.2	1.55 V	345	42.5	6.3
3	#5470.00	63.2 PK	68.2	-5.0	1.60 V	347	56.9	6.3
4	*5530.00	113.5 PK			1.71 V	348	71.4	42.1
5	*5530.00	101.9 AV			1.71 V	348	59.8	42.1
6	#5725.00	58.3 PK	68.2	-9.9	1.53 V	343	51.8	6.5
7	11060.00	60.5 PK	74.0	-13.5	1.62 V	351	42.1	18.4
8	11060.00	47.3 AV	54.0	-6.7	1.62 V	351	28.9	18.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	58.5 PK	74.0	-15.5	1.57 H	356	52.2	6.3
2	5460.00	46.0 AV	54.0	-8.0	1.57 H	356	39.7	6.3
3	#5470.00	58.8 PK	68.2	-9.4	1.59 H	359	52.5	6.3
4	*5610.00	114.2 PK			1.52 H	350	72.1	42.1
5	*5610.00	101.9 AV			1.52 H	350	59.8	42.1
6	#5725.00	61.7 PK	68.2	-6.5	1.34 H	352	55.2	6.5
7	11220.00	60.4 PK	74.0	-13.6	1.66 H	323	41.9	18.5
8	11220.00	47.4 AV	54.0	-6.6	1.66 H	323	28.9	18.5
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	5460.00	58.8 PK	74.0	-15.2	1.57 V	342	52.5	6.3
2	5460.00	46.1 AV	54.0	-7.9	1.57 V	342	39.8	6.3
3	#5470.00	60.8 PK	68.2	-7.4	1.59 V	347	54.5	6.3
4	*5610.00	113.3 PK			1.62 V	346	71.2	42.1
5	*5610.00	101.4 AV			1.62 V	346	59.3	42.1
6	#5725.00	64.6 PK	68.2	-3.6	1.57 V	347	58.1	6.5
7	11220.00	60.8 PK	74.0	-13.2	1.32 V	359	42.3	18.5
8	11220.00	47.6 AV	54.0	-6.4	1.32 V	359	29.1	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 138：5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	57.9 PK	68.2	-10.3	1.31 H	352	51.6	6.3
2	*5690.00	115.8 PK			1.28 H	358	73.5	42.3
3	*5690.00	103.1 AV			1.28 H	358	60.8	42.3
4	#5850.00	60.0 PK	68.2	-8.2	1.33 H	355	53.2	6.8
5	11380.00	59.6 PK	74.0	-14.4	1.55 H	308	41.8	17.8
6	11380.00	46.6 AV	54.0	-7.4	1.55 H	308	28.8	17.8
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	#5470.00	58.1 PK	68.2	-10.1	1.55 V	356	51.8	6.3
2	*5690.00	115.0 PK			1.62 V	357	72.7	42.3
3	*5690.00	102.9 AV			1.62 V	357	60.6	42.3
4	#5850.00	60.0 PK	68.2	-8.2	1.57 V	359	53.2	6.8
5	11380.00	60.0 PK	74.0	-14.0	1.22 V	345	42.2	17.8
6	11380.00	47.0 AV	54.0	-7.0	1.22 V	345	29.2	17.8

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.
6. " # ": The radiated frequency is out of the restricted band.

5G traffic radio (Radio 2)

RF Mode	TX 802.11a	Channel	CH 52：5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	59.8 PK	74.0	-14.2	1.62 H	348	53.2	6.6
2	5150.00	46.7 AV	54.0	-7.3	1.62 H	348	40.1	6.6
3	*5260.00	120.2 PK			1.60 H	346	78.3	41.9
4	*5260.00	111.1 AV			1.60 H	346	69.2	41.9
5	#10520.00	59.4 PK	68.2	-8.8	1.77 H	326	41.8	17.6
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	5150.00	58.4 PK	74.0	-15.6	1.69 V	349	51.8	6.6
2	5150.00	45.4 AV	54.0	-8.6	1.69 V	349	38.8	6.6
3	*5260.00	117.7 PK			1.73 V	351	75.8	41.9
4	*5260.00	108.5 AV			1.73 V	351	66.6	41.9
5	#10520.00	59.1 PK	68.2	-9.1	1.44 V	338	41.5	17.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 56：5280 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.2 PK	74.0	-15.8	1.84 H	344	51.6	6.6
2	5150.00	45.2 AV	54.0	-8.8	1.84 H	344	38.6	6.6
3	#5250.00	66.8 PK	68.2	-1.4	1.86 H	347	60.7	6.1
4	*5280.00	121.0 PK			1.85 H	345	79.1	41.9
5	*5280.00	112.0 AV			1.85 H	345	70.1	41.9
6	5350.00	61.1 PK	74.0	-12.9	1.88 H	342	54.7	6.4
7	5350.00	48.7 AV	54.0	-5.3	1.88 H	342	42.3	6.4
8	#10560.00	59.2 PK	68.2	-9.0	1.73 H	325	41.7	17.5
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	5150.00	58.1 PK	74.0	-15.9	1.65 V	358	51.5	6.6
2	5150.00	45.1 AV	54.0	-8.9	1.65 V	358	38.5	6.6
3	#5250.00	58.3 PK	68.2	-9.9	1.70 V	357	52.2	6.1
4	*5280.00	118.2 PK			1.80 V	351	76.3	41.9
5	*5280.00	109.0 AV			1.80 V	351	67.1	41.9
6	5350.00	59.9 PK	74.0	-14.1	1.62 V	355	53.5	6.4
7	5350.00	46.9 AV	54.0	-7.1	1.62 V	355	40.5	6.4
8	#10560.00	59.1 PK	68.2	-9.1	1.51 V	342	41.6	17.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 60：5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5300.00	120.7 PK			1.75 H	346	78.8	41.9
2	*5300.00	111.8 AV			1.75 H	346	69.9	41.9
3	10600.00	58.8 PK	74.0	-15.2	1.79 H	319	41.6	17.2
4	10600.00	46.1 AV	54.0	-7.9	1.79 H	319	28.9	17.2
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	*5300.00	118.9 PK			1.70 V	350	77.0	41.9
2	*5300.00	109.4 AV			1.70 V	350	67.5	41.9
3	10600.00	58.9 PK	74.0	-15.1	1.52 V	338	41.7	17.2
4	10600.00	45.8 AV	54.0	-8.2	1.52 V	338	28.6	17.2

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.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a	Channel	CH 64：5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5320.00	119.2 PK			1.82 H	346	77.2	42.0
2	*5320.00	110.2 AV			1.82 H	346	68.2	42.0
3	5350.00	67.4 PK	74.0	-6.6	1.71 H	345	61.0	6.4
4	5350.00	50.3 AV	54.0	-3.7	1.71 H	345	43.9	6.4
5	10640.00	59.0 PK	74.0	-15.0	1.69 H	318	41.6	17.4
6	10640.00	46.1 AV	54.0	-7.9	1.69 H	318	28.7	17.4
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	*5320.00	117.1 PK			1.64 V	352	75.1	42.0
2	*5320.00	107.8 AV			1.64 V	352	65.8	42.0
3	5350.00	66.3 PK	74.0	-7.7	1.62 V	350	59.9	6.4
4	5350.00	48.9 AV	54.0	-5.1	1.62 V	350	42.5	6.4
5	10640.00	59.0 PK	74.0	-15.0	1.43 V	334	41.6	17.4
6	10640.00	45.9 AV	54.0	-8.1	1.43 V	334	28.5	17.4

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.

RF Mode	TX 802.11a	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	60.7 PK	74.0	-13.3	1.64 H	342	54.4	6.3
2	5460.00	48.1 AV	54.0	-5.9	1.64 H	342	41.8	6.3
3	#5470.00	67.1 PK	68.2	-1.1	1.55 H	345	60.8	6.3
4	*5500.00	119.7 PK			1.74 H	341	77.6	42.1
5	*5500.00	110.7 AV			1.74 H	341	68.6	42.1
6	11000.00	60.2 PK	74.0	-13.8	1.42 H	332	41.6	18.6
7	11000.00	47.4 AV	54.0	-6.6	1.42 H	332	28.8	18.6
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	5460.00	59.3 PK	74.0	-14.7	1.47 V	345	53.0	6.3
2	5460.00	46.2 AV	54.0	-7.8	1.47 V	345	39.9	6.3
3	#5470.00	63.2 PK	68.2	-5.0	1.49 V	347	56.9	6.3
4	*5500.00	118.2 PK			1.51 V	349	76.1	42.1
5	*5500.00	108.2 AV			1.51 V	349	66.1	42.1
6	11000.00	60.3 PK	74.0	-13.7	1.53 V	348	41.7	18.6
7	11000.00	47.4 AV	54.0	-6.6	1.53 V	348	28.8	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5580.00	120.2 PK			1.72 H	344	78.1	42.1
2	*5580.00	111.4 AV			1.72 H	344	69.3	42.1
3	11160.00	60.2 PK	74.0	-13.8	1.51 H	332	41.7	18.5
4	11160.00	47.4 AV	54.0	-6.6	1.51 H	332	28.9	18.5
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	*5580.00	118.7 PK			1.60 V	349	76.6	42.1
2	*5580.00	109.3 AV			1.60 V	349	67.2	42.1
3	11160.00	60.3 PK	74.0	-13.7	1.48 V	351	41.8	18.5
4	11160.00	47.4 AV	54.0	-6.6	1.48 V	351	28.9	18.5

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.

RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5700.00	119.4 PK			1.78 H	355	77.1	42.3
2	*5700.00	109.8 AV			1.78 H	355	67.5	42.3
3	#5725.00	66.9 PK	68.2	-1.3	1.72 H	352	60.4	6.5
4	11400.00	59.5 PK	74.0	-14.5	1.52 H	328	41.6	17.9
5	11400.00	46.6 AV	54.0	-7.4	1.52 H	328	28.7	17.9
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	*5700.00	117.4 PK			1.60 V	352	75.1	42.3
2	*5700.00	108.0 AV			1.60 V	352	65.7	42.3
3	#5725.00	63.7 PK	68.2	-4.5	1.55 V	347	57.2	6.5
4	11400.00	59.6 PK	74.0	-14.4	1.42 V	347	41.7	17.9
5	11400.00	46.6 AV	54.0	-7.4	1.42 V	347	28.7	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.4 PK	68.2	-9.8	1.69 H	352	52.1	6.3
2	*5720.00	120.5 PK			1.71 H	354	78.3	42.2
3	*5720.00	111.0 AV			1.71 H	354	68.8	42.2
4	#5850.00	60.3 PK	68.2	-7.9	1.73 H	352	53.5	6.8
5	11440.00	59.8 PK	74.0	-14.2	1.35 H	321	41.8	18.0
6	11440.00	47.0 AV	54.0	-7.0	1.35 H	321	29.0	18.0
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	#5470.00	58.8 PK	68.2	-9.4	1.44 V	347	52.5	6.3
2	*5720.00	118.3 PK			1.51 V	351	76.1	42.2
3	*5720.00	108.7 AV			1.51 V	351	66.5	42.2
4	#5850.00	59.9 PK	68.2	-8.3	1.49 V	354	53.1	6.8
5	11440.00	59.8 PK	74.0	-14.2	1.43 V	347	41.8	18.0
6	11440.00	46.9 AV	54.0	-7.1	1.43 V	347	28.9	18.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	59.7 PK	74.0	-14.3	1.70 H	342	53.1	6.6
2	5150.00	46.4 AV	54.0	-7.6	1.70 H	342	39.8	6.6
3	*5260.00	122.4 PK			1.68 H	345	80.5	41.9
4	*5260.00	110.2 AV			1.68 H	345	68.3	41.9
5	#10520.00	59.3 PK	68.2	-8.9	1.65 H	321	41.7	17.6
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	5150.00	58.8 PK	74.0	-15.2	1.66 V	352	52.2	6.6
2	5150.00	46.0 AV	54.0	-8.0	1.66 V	352	39.4	6.6
3	*5260.00	119.9 PK			1.64 V	351	78.0	41.9
4	*5260.00	107.6 AV			1.64 V	351	65.7	41.9
5	#10520.00	59.2 PK	68.2	-9.0	1.48 V	328	41.6	17.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 56：5280 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	60.1 PK	74.0	-13.9	1.83 H	346	53.5	6.6
2	5150.00	45.1 AV	54.0	-8.9	1.83 H	346	38.5	6.6
3	#5250.00	67.1 PK	68.2	-1.1	1.88 H	344	61.0	6.1
4	*5280.00	121.9 PK			1.86 H	346	80.0	41.9
5	*5280.00	110.0 AV			1.86 H	346	68.1	41.9
6	5350.00	60.9 PK	74.0	-13.1	1.90 H	344	54.5	6.4
7	5350.00	48.9 AV	54.0	-5.1	1.90 H	344	42.5	6.4
8	#10560.00	59.1 PK	68.2	-9.1	1.69 H	325	41.6	17.5
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	5150.00	58.5 PK	74.0	-15.5	1.75 V	345	51.9	6.6
2	5150.00	45.5 AV	54.0	-8.5	1.75 V	345	38.9	6.6
3	#5250.00	66.6 PK	68.2	-1.6	1.78 V	350	60.5	6.1
4	*5280.00	120.1 PK			1.77 V	352	78.2	41.9
5	*5280.00	107.9 AV			1.77 V	352	66.0	41.9
6	5350.00	60.5 PK	74.0	-13.5	1.75 V	351	54.1	6.4
7	5350.00	47.1 AV	54.0	-6.9	1.75 V	351	40.7	6.4
8	#10560.00	59.1 PK	68.2	-9.1	1.48 V	328	41.6	17.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 60：5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5300.00	122.7 PK			1.62 H	346	80.8	41.9
2	*5300.00	110.6 AV			1.62 H	346	68.7	41.9
3	10600.00	59.0 PK	74.0	-15.0	1.69 H	324	41.8	17.2
4	10600.00	45.9 AV	54.0	-8.1	1.69 H	324	28.7	17.2
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	*5300.00	119.8 PK			1.66 V	350	77.9	41.9
2	*5300.00	108.0 AV			1.66 V	350	66.1	41.9
3	10600.00	58.8 PK	74.0	-15.2	1.49 V	339	41.6	17.2
4	10600.00	46.0 AV	54.0	-8.0	1.49 V	339	28.8	17.2

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.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64：5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5320.00	121.1 PK			1.63 H	345	79.1	42.0
2	*5320.00	108.9 AV			1.63 H	345	66.9	42.0
3	5350.00	70.1 PK	74.0	-3.9	1.84 H	345	63.7	6.4
4	5350.00	52.2 AV	54.0	-1.8	1.84 H	345	45.8	6.4
5	10640.00	59.1 PK	74.0	-14.9	1.66 H	324	41.7	17.4
6	10640.00	46.2 AV	54.0	-7.8	1.66 H	324	28.8	17.4
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	*5320.00	118.3 PK			1.52 V	354	76.3	42.0
2	*5320.00	106.7 AV			1.52 V	354	64.7	42.0
3	5350.00	68.5 PK	74.0	-5.5	1.58 V	353	62.1	6.4
4	5350.00	50.3 AV	54.0	-3.7	1.58 V	353	43.9	6.4
5	10640.00	59.0 PK	74.0	-15.0	1.53 V	342	41.6	17.4
6	10640.00	46.0 AV	54.0	-8.0	1.53 V	342	28.6	17.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	59.5 PK	74.0	-14.5	1.72 H	345	53.2	6.3
2	5460.00	47.1 AV	54.0	-6.9	1.72 H	345	40.8	6.3
3	#5470.00	67.0 PK	68.2	-1.2	1.72 H	359	60.7	6.3
4	*5500.00	121.4 PK			1.51 H	343	79.3	42.1
5	*5500.00	109.2 AV			1.51 H	343	67.1	42.1
6	11000.00	60.4 PK	74.0	-13.6	1.41 H	335	41.8	18.6
7	11000.00	47.5 AV	54.0	-6.5	1.41 H	335	28.9	18.6
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	5460.00	58.8 PK	74.0	-15.2	1.49 V	348	52.5	6.3
2	5460.00	45.8 AV	54.0	-8.2	1.49 V	348	39.5	6.3
3	#5470.00	61.6 PK	68.2	-6.6	1.53 V	352	55.3	6.3
4	*5500.00	120.5 PK			1.55 V	351	78.4	42.1
5	*5500.00	107.5 AV			1.55 V	351	65.4	42.1
6	11000.00	60.3 PK	74.0	-13.7	1.48 V	348	41.7	18.6
7	11000.00	47.3 AV	54.0	-6.7	1.48 V	348	28.7	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5580.00	122.9 PK			1.58 H	344	80.8	42.1
2	*5580.00	110.1 AV			1.58 H	344	68.0	42.1
3	11160.00	60.1 PK	74.0	-13.9	1.38 H	328	41.6	18.5
4	11160.00	47.2 AV	54.0	-6.8	1.38 H	328	28.7	18.5
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	*5580.00	121.7 PK			1.55 V	350	79.6	42.1
2	*5580.00	108.2 AV			1.55 V	350	66.1	42.1
3	11160.00	60.2 PK	74.0	-13.8	1.42 V	352	41.7	18.5
4	11160.00	47.3 AV	54.0	-6.7	1.42 V	352	28.8	18.5

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5700.00	121.0 PK			1.69 H	344	78.7	42.3
2	*5700.00	108.6 AV			1.69 H	344	66.3	42.3
3	#5725.00	67.1 PK	68.2	-1.1	1.57 H	341	60.6	6.5
4	11400.00	59.7 PK	74.0	-14.3	1.42 H	338	41.8	17.9
5	11400.00	46.7 AV	54.0	-7.3	1.42 H	338	28.8	17.9
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	*5700.00	120.0 PK			1.57 V	351	77.7	42.3
2	*5700.00	106.7 AV			1.57 V	351	64.4	42.3
3	#5725.00	65.7 PK	68.2	-2.5	1.54 V	355	59.2	6.5
4	11400.00	59.5 PK	74.0	-14.5	1.58 V	342	41.6	17.9
5	11400.00	46.5 AV	54.0	-7.5	1.58 V	342	28.6	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.8 PK	68.2	-9.4	1.65 H	352	52.5	6.3
2	*5720.00	122.4 PK			1.68 H	355	80.2	42.2
3	*5720.00	110.1 AV			1.68 H	355	67.9	42.2
4	#5850.00	60.0 PK	68.2	-8.2	1.65 H	349	53.2	6.8
5	11440.00	59.9 PK	74.0	-14.1	1.52 H	329	41.9	18.0
6	11440.00	46.9 AV	54.0	-7.1	1.52 H	329	28.9	18.0
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	#5470.00	58.6 PK	68.2	-9.6	1.54 V	354	52.3	6.3
2	*5720.00	120.8 PK			1.58 V	353	78.6	42.2
3	*5720.00	107.7 AV			1.58 V	353	65.5	42.2
4	#5850.00	59.5 PK	68.2	-8.7	1.55 V	351	52.7	6.8
5	11440.00	59.7 PK	74.0	-14.3	1.51 V	344	41.7	18.0
6	11440.00	46.7 AV	54.0	-7.3	1.51 V	344	28.7	18.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 54：5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	60.4 PK	74.0	-13.6	1.62 H	348	53.8	6.6
2	5150.00	47.2 AV	54.0	-6.8	1.62 H	348	40.6	6.6
3	*5270.00	120.9 PK			1.58 H	345	79.0	41.9
4	*5270.00	107.7 AV			1.58 H	345	65.8	41.9
5	#10540.00	59.3 PK	68.2	-8.9	1.74 H	335	41.7	17.6
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	5150.00	59.8 PK	74.0	-14.2	1.59 V	350	53.2	6.6
2	5150.00	46.7 AV	54.0	-7.3	1.59 V	350	40.1	6.6
3	*5270.00	117.9 PK			1.62 V	352	76.0	41.9
4	*5270.00	105.3 AV			1.62 V	352	63.4	41.9
5	#10540.00	59.3 PK	68.2	-8.9	1.82 V	325	41.7	17.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 62：5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5310.00	119.2 PK			1.72 H	344	77.2	42.0
2	*5310.00	106.0 AV			1.72 H	344	64.0	42.0
3	5350.00	69.2 PK	74.0	-4.8	1.58 H	343	62.8	6.4
4	5350.00	52.7 AV	54.0	-1.3	1.58 H	343	46.3	6.4
5	10620.00	59.0 PK	74.0	-15.0	1.75 H	335	41.6	17.4
6	10620.00	46.2 AV	54.0	-7.8	1.75 H	335	28.8	17.4
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	*5310.00	116.6 PK			1.67 V	351	74.6	42.0
2	*5310.00	103.6 AV			1.67 V	351	61.6	42.0
3	5350.00	64.2 PK	74.0	-9.8	1.69 V	350	57.8	6.4
4	5350.00	49.6 AV	54.0	-4.4	1.69 V	350	43.2	6.4
5	10620.00	58.9 PK	74.0	-15.1	1.48 V	332	41.5	17.4
6	10620.00	46.0 AV	54.0	-8.0	1.48 V	332	28.6	17.4

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	64.4 PK	74.0	-9.6	1.62 H	342	58.1	6.3
2	5460.00	48.1 AV	54.0	-5.9	1.62 H	342	41.8	6.3
3	**#5470.00**	**67.2 PK**	**68.2**	**-1.0**	**1.64 H**	**344**	**60.9**	**6.3**
4	*5510.00	118.1 PK			1.71 H	343	76.0	42.1
5	*5510.00	105.1 AV			1.71 H	343	63.0	42.1
6	11020.00	60.2 PK	74.0	-13.8	1.45 H	328	41.6	18.6
7	11020.00	47.3 AV	54.0	-6.7	1.45 H	328	28.7	18.6
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	5460.00	59.8 PK	74.0	-14.2	1.49 V	351	53.5	6.3
2	5460.00	47.4 AV	54.0	-6.6	1.49 V	351	41.1	6.3
3	#5470.00	64.3 PK	68.2	-3.9	1.53 V	354	58.0	6.3
4	*5510.00	115.9 PK			1.56 V	350	73.8	42.1
5	*5510.00	103.1 AV			1.56 V	350	61.0	42.1
6	11020.00	60.2 PK	74.0	-13.8	1.52 V	347	41.6	18.6
7	11020.00	47.1 AV	54.0	-6.9	1.52 V	347	28.5	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5550.00	120.4 PK			1.74 H	345	78.3	42.1
2	*5550.00	107.3 AV			1.74 H	345	65.2	42.1
3	11100.00	59.9 PK	74.0	-14.1	1.42 H	338	41.6	18.3
4	11100.00	46.9 AV	54.0	-7.1	1.42 H	338	28.6	18.3
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	*5550.00	117.2 PK			1.51 V	348	75.1	42.1
2	*5550.00	105.3 AV			1.51 V	348	63.2	42.1
3	11100.00	59.9 PK	74.0	-14.1	1.55 V	352	41.6	18.3
4	11100.00	46.9 AV	54.0	-7.1	1.55 V	352	28.6	18.3

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5670.00	119.7 PK			1.75 H	342	77.5	42.2
2	*5670.00	106.6 AV			1.75 H	342	64.4	42.2
3	#5725.00	67.0 PK	68.2	-1.2	1.74 H	356	60.5	6.5
4	11340.00	59.7 PK	74.0	-14.3	1.48 H	332	41.6	18.1
5	11340.00	46.9 AV	54.0	-7.1	1.48 H	332	28.8	18.1
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	*5670.00	117.0 PK			1.52 V	349	74.8	42.2
2	*5670.00	104.6 AV			1.52 V	349	62.4	42.2
3	#5725.00	64.9 PK	68.2	-3.3	1.49 V	344	58.4	6.5
4	11340.00	59.8 PK	74.0	-14.2	1.42 V	351	41.7	18.1
5	11340.00	46.7 AV	54.0	-7.3	1.42 V	351	28.6	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142：5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.6 PK	68.2	-9.6	1.70 H	356	52.3	6.3
2	*5710.00	120.7 PK			1.74 H	357	78.4	42.3
3	*5710.00	107.5 AV			1.74 H	357	65.2	42.3
4	#5850.00	60.0 PK	68.2	-8.2	1.69 H	355	53.2	6.8
5	11420.00	59.7 PK	74.0	-14.3	1.39 H	342	41.8	17.9
6	11420.00	46.8 AV	54.0	-7.2	1.39 H	342	28.9	17.9
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	#5470.00	58.5 PK	68.2	-9.7	1.51 V	349	52.2	6.3
2	*5710.00	118.3 PK			1.55 V	357	76.0	42.3
3	*5710.00	105.5 AV			1.55 V	357	63.2	42.3
4	#5850.00	59.5 PK	68.2	-8.7	1.53 V	355	52.7	6.8
5	11420.00	59.6 PK	74.0	-14.4	1.52 V	348	41.7	17.9
6	11420.00	46.5 AV	54.0	-7.5	1.52 V	348	28.6	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	62.0 PK	74.0	-12.0	1.62 H	5	55.4	6.6
2	5150.00	47.8 AV	54.0	-6.2	1.62 H	5	41.2	6.6
3	*5290.00	116.0 PK			1.57 H	345	74.1	41.9
4	*5290.00	103.2 AV			1.57 H	345	61.3	41.9
5	5350.00	66.7 PK	74.0	-7.3	1.60 H	3	60.3	6.4
6	**5350.00**	**53.0 AV**	**54.0**	**-1.0**	**1.60 H**	**3**	**46.6**	**6.4**
7	#10580.00	59.1 PK	68.2	-9.1	1.63 H	329	41.7	17.4
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	5150.00	58.8 PK	74.0	-15.2	1.68 V	348	52.2	6.6
2	5150.00	46.1 AV	54.0	-7.9	1.68 V	348	39.5	6.6
3	*5290.00	113.2 PK			1.70 V	350	71.3	41.9
4	*5290.00	100.7 AV			1.70 V	350	58.8	41.9
5	5350.00	63.7 PK	74.0	-10.3	1.66 V	349	57.3	6.4
6	5350.00	50.2 AV	54.0	-3.8	1.66 V	349	43.8	6.4
7	#10580.00	59.0 PK	68.2	-9.2	1.48 V	332	41.6	17.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	65.3 PK	74.0	-8.7	1.60 H	341	59.0	6.3
2	5460.00	51.5 AV	54.0	-2.5	1.60 H	341	45.2	6.3
3	#5470.00	67.2 PK	68.2	-1.0	1.63 H	345	60.9	6.3
4	*5530.00	114.6 PK			1.73 H	343	72.5	42.1
5	*5530.00	101.9 AV			1.73 H	343	59.8	42.1
6	#5725.00	59.1 PK	68.2	-9.1	1.62 H	344	52.6	6.5
7	11060.00	60.0 PK	74.0	-14.0	1.43 H	335	41.6	18.4
8	11060.00	47.0 AV	54.0	-7.0	1.43 H	335	28.6	18.4
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	5460.00	62.2 PK	74.0	-11.8	1.52 V	345	55.9	6.3
2	5460.00	48.8 AV	54.0	-5.2	1.52 V	345	42.5	6.3
3	#5470.00	65.4 PK	68.2	-2.8	1.54 V	349	59.1	6.3
4	*5530.00	111.9 PK			1.56 V	351	69.8	42.1
5	*5530.00	99.8 AV			1.56 V	351	57.7	42.1
6	#5725.00	59.1 PK	68.2	-9.1	1.52 V	349	52.6	6.5
7	11060.00	60.0 PK	74.0	-14.0	1.55 V	347	41.6	18.4
8	11060.00	47.0 AV	54.0	-7.0	1.55 V	347	28.6	18.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	59.2 PK	74.0	-14.8	1.62 H	351	52.9	6.3
2	5460.00	46.3 AV	54.0	-7.7	1.62 H	351	40.0	6.3
3	#5470.00	60.0 PK	68.2	-8.2	1.66 H	352	53.7	6.3
4	*5610.00	116.6 PK			1.70 H	342	74.5	42.1
5	*5610.00	103.6 AV			1.70 H	342	61.5	42.1
6	#5725.00	63.0 PK	68.2	-5.2	1.69 H	356	56.5	6.5
7	11220.00	60.2 PK	74.0	-13.8	1.42 H	334	41.7	18.5
8	11220.00	47.3 AV	54.0	-6.7	1.42 H	334	28.8	18.5
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	5460.00	58.5 PK	74.0	-15.5	1.51 V	347	52.2	6.3
2	5460.00	45.2 AV	54.0	-8.8	1.51 V	347	38.9	6.3
3	#5470.00	59.1 PK	68.2	-9.1	1.52 V	349	52.8	6.3
4	*5610.00	114.6 PK			1.54 V	350	72.5	42.1
5	*5610.00	101.9 AV			1.54 V	350	59.8	42.1
6	#5725.00	63.0 PK	68.2	-5.2	1.53 V	346	56.5	6.5
7	11220.00	60.3 PK	74.0	-13.7	1.55 V	349	41.8	18.5
8	11220.00	47.3 AV	54.0	-6.7	1.55 V	349	28.8	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 138：5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.9 PK	68.2	-9.3	1.66 H	352	52.6	6.3
2	*5690.00	116.7 PK			1.74 H	358	74.4	42.3
3	*5690.00	104.5 AV			1.74 H	358	62.2	42.3
4	#5850.00	60.0 PK	68.2	-8.2	1.69 H	355	53.2	6.8
5	11380.00	59.6 PK	74.0	-14.4	1.44 H	341	41.8	17.8
6	11380.00	46.7 AV	54.0	-7.3	1.44 H	341	28.9	17.8
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	#5470.00	58.4 PK	68.2	-9.8	1.54 V	344	52.1	6.3
2	*5690.00	115.2 PK			1.56 V	349	72.9	42.3
3	*5690.00	102.3 AV			1.56 V	349	60.0	42.3
4	#5850.00	59.1 PK	68.2	-9.1	1.55 V	345	52.3	6.8
5	11380.00	59.5 PK	74.0	-14.5	1.59 V	351	41.7	17.8
6	11380.00	46.4 AV	54.0	-7.6	1.59 V	351	28.6	17.8

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.
6. " # ": The radiated frequency is out of the restricted band.

5G traffic radio (Radio 3)

RF Mode	TX 802.11a	Channel	CH 52：5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.7 PK	74.0	-15.3	1.47 H	11	52.1	6.6
2	5150.00	45.3 AV	54.0	-8.7	1.47 H	11	38.7	6.6
3	*5260.00	112.6 PK			1.43 H	6	70.7	41.9
4	*5260.00	103.4 AV			1.43 H	6	61.5	41.9
5	5350.00	58.1 PK	74.0	-15.9	1.45 H	10	51.7	6.4
6	5350.00	45.6 AV	54.0	-8.4	1.45 H	10	39.2	6.4
7	#10520.00	59.3 PK	68.2	-8.9	1.82 H	335	41.7	17.6
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	5150.00	61.1 PK	74.0	-12.9	1.35 V	336	54.5	6.6
2	5150.00	48.5 AV	54.0	-5.5	1.35 V	336	41.9	6.6
3	*5260.00	119.5 PK			1.31 V	329	77.6	41.9
4	*5260.00	109.9 AV			1.31 V	329	68.0	41.9
5	5350.00	64.8 PK	74.0	-9.2	1.48 V	332	58.4	6.4
6	5350.00	53.0 AV	54.0	-1.0	1.48 V	332	46.6	6.4
7	#10520.00	59.3 PK	68.2	-8.9	1.52 V	334	41.7	17.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 56：5280 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.1 PK	74.0	-15.9	1.38 H	13	51.5	6.6
2	5150.00	45.2 AV	54.0	-8.8	1.38 H	13	38.6	6.6
3	#5250.00	62.3 PK	68.2	-5.9	1.41 H	11	56.2	6.1
4	*5280.00	110.6 PK			1.42 H	9	68.7	41.9
5	*5280.00	101.5 AV			1.42 H	9	59.6	41.9
6	5350.00	58.0 PK	74.0	-16.0	1.44 H	8	51.6	6.4
7	5350.00	45.0 AV	54.0	-9.0	1.44 H	8	38.6	6.4
8	#10560.00	59.0 PK	68.2	-9.2	1.75 H	332	41.5	17.5
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	5150.00	58.7 PK	74.0	-15.3	1.62 V	335	52.1	6.6
2	5150.00	45.9 AV	54.0	-8.1	1.62 V	335	39.3	6.6
3	#5250.00	67.0 PK	68.2	-1.2	1.64 V	327	60.9	6.1
4	*5280.00	117.5 PK			1.22 V	334	75.6	41.9
5	*5280.00	108.3 AV			1.22 V	334	66.4	41.9
6	5350.00	63.0 PK	74.0	-11.0	1.75 V	330	56.6	6.4
7	5350.00	51.4 AV	54.0	-2.6	1.75 V	330	45.0	6.4
8	#10560.00	59.2 PK	68.2	-9.0	1.55 V	338	41.7	17.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 60：5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5300.00	114.6 PK			1.38 H	5	72.7	41.9
2	*5300.00	105.0 AV			1.38 H	5	63.1	41.9
3	5350.00	58.4 PK	74.0	-15.6	1.42 H	11	52.0	6.4
4	5350.00	45.5 AV	54.0	-8.5	1.42 H	11	39.1	6.4
5	10600.00	58.9 PK	68.2	-9.3	1.75 H	338	41.7	17.2
6	10600.00	45.7 AV	54.0	-8.3	1.75 H	338	28.5	17.2
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	*5300.00	120.7 PK			1.51 V	328	78.8	41.9
2	*5300.00	111.8 AV			1.51 V	328	69.9	41.9
3	5350.00	63.9 PK	74.0	-10.1	1.69 V	331	57.5	6.4
4	5350.00	52.8 AV	54.0	-1.2	1.69 V	331	46.4	6.4
5	10600.00	58.8 PK	74.0	-15.2	1.55 V	338	41.6	17.2
6	10600.00	45.9 AV	54.0	-8.1	1.55 V	338	28.7	17.2

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.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11a	Channel	CH 64：5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5320.00	112.1 PK			1.49 H	4	70.1	42.0
2	*5320.00	101.8 AV			1.49 H	4	59.8	42.0
3	5350.00	59.0 PK	74.0	-15.0	1.47 H	10	52.6	6.4
4	5350.00	45.3 AV	54.0	-8.7	1.47 H	10	38.9	6.4
5	10640.00	59.0 PK	74.0	-15.0	1.95 H	334	41.6	17.4
6	10640.00	46.0 AV	54.0	-8.0	1.95 H	334	28.6	17.4
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	*5320.00	118.5 PK			1.34 V	331	76.5	42.0
2	*5320.00	109.3 AV			1.34 V	331	67.3	42.0
3	5350.00	64.2 PK	74.0	-9.8	1.62 V	331	57.8	6.4
4	5350.00	52.7 AV	54.0	-1.3	1.62 V	331	46.3	6.4
5	10640.00	59.0 PK	74.0	-15.0	1.55 V	338	41.6	17.4
6	10640.00	46.2 AV	54.0	-7.8	1.55 V	338	28.8	17.4

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.

RF Mode	TX 802.11a	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	57.5 PK	74.0	-16.5	1.69 H	7	51.2	6.3
2	5460.00	44.5 AV	54.0	-9.5	1.69 H	7	38.2	6.3
3	#5470.00	57.6 PK	68.2	-10.6	1.72 H	10	51.3	6.3
4	*5500.00	106.2 PK			1.74 H	8	64.1	42.1
5	*5500.00	96.9 AV			1.74 H	8	54.8	42.1
6	11000.00	61.6 PK	74.0	-12.4	1.69 H	327	43.0	18.6
7	11000.00	47.5 AV	54.0	-6.5	1.69 H	327	28.9	18.6
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	5460.00	60.9 PK	74.0	-13.1	1.32 V	340	54.6	6.3
2	5460.00	49.4 AV	54.0	-4.6	1.32 V	340	43.1	6.3
3	#5470.00	67.2 PK	68.2	-1.0	1.33 V	332	60.9	6.3
4	*5500.00	118.0 PK			1.48 V	332	75.9	42.1
5	*5500.00	108.3 AV			1.48 V	332	66.2	42.1
6	11000.00	60.6 PK	74.0	-13.4	1.55 V	332	42.0	18.6
7	11000.00	47.1 AV	54.0	-6.9	1.55 V	332	28.5	18.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	57.9 PK	74.0	-16.1	1.82 H	24	51.6	6.3
2	5460.00	44.6 AV	54.0	-9.4	1.82 H	24	38.3	6.3
3	#5470.00	57.9 PK	68.2	-10.3	1.88 H	17	51.6	6.3
4	*5580.00	112.5 PK			1.92 H	23	70.4	42.1
5	*5580.00	102.8 AV			1.92 H	23	60.7	42.1
6	11160.00	61.0 PK	74.0	-13.0	1.83 H	308	42.5	18.5
7	11160.00	46.9 AV	54.0	-7.1	1.83 H	308	28.4	18.5
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	5460.00	65.0 PK	74.0	-9.0	1.50 V	317	58.7	6.3
2	5460.00	47.3 AV	54.0	-6.7	1.50 V	317	41.0	6.3
3	**#5470.00**	**67.5 PK**	**68.2**	**-0.7**	**1.54 V**	**328**	**61.2**	**6.3**
4	*5580.00	122.5 PK			1.46 V	331	80.4	42.1
5	*5580.00	112.9 AV			1.46 V	331	70.8	42.1
6	11160.00	60.8 PK	74.0	-13.2	1.62 V	318	42.3	18.5
7	11160.00	46.8 AV	54.0	-7.2	1.62 V	318	28.3	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5700.00	104.7 PK			1.94 H	20	62.4	42.3
2	*5700.00	96.1 AV			1.94 H	20	53.8	42.3
3	#5725.00	58.4 PK	68.2	-9.8	1.93 H	18	51.9	6.5
4	11400.00	60.2 PK	74.0	-13.8	1.79 H	350	42.3	17.9
5	11400.00	46.4 AV	54.0	-7.6	1.79 H	350	28.5	17.9
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	*5700.00	117.7 PK			1.42 V	332	75.4	42.3
2	*5700.00	107.6 AV			1.42 V	332	65.3	42.3
3	#5725.00	67.1 PK	68.2	-1.1	1.37 V	350	60.6	6.5
4	11400.00	59.4 PK	74.0	-14.6	1.77 V	318	41.5	17.9
5	11400.00	45.5 AV	54.0	-8.5	1.77 V	318	27.6	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11a	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.6 PK	68.2	-9.6	1.82 H	15	52.3	6.3
2	*5720.00	113.0 PK			1.96 H	17	70.8	42.2
3	*5720.00	103.9 AV			1.96 H	17	61.7	42.2
4	#5850.00	59.3 PK	68.2	-8.9	1.90 H	20	52.5	6.8
5	11440.00	59.9 PK	74.0	-14.1	1.76 H	337	41.9	18.0
6	11440.00	46.2 AV	54.0	-7.8	1.76 H	337	28.2	18.0
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	#5470.00	59.9 PK	68.2	-8.3	1.33 V	349	53.6	6.3
2	*5720.00	122.6 PK			1.31 V	331	80.4	42.2
3	*5720.00	114.0 AV			1.31 V	331	71.8	42.2
4	#5850.00	61.5 PK	68.2	-6.7	1.34 V	331	54.7	6.8
5	11440.00	59.6 PK	74.0	-14.4	1.80 V	302	41.6	18.0
6	11440.00	45.9 AV	54.0	-8.1	1.80 V	302	27.9	18.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 52：5260 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.2 PK	74.0	-15.8	1.41 H	12	51.6	6.6
2	5150.00	45.2 AV	54.0	-8.8	1.41 H	12	38.6	6.6
3	*5260.00	115.6 PK			1.37 H	9	73.7	41.9
4	*5260.00	102.7 AV			1.37 H	9	60.8	41.9
5	5350.00	59.3 PK	74.0	-14.7	1.39 H	10	52.9	6.4
6	5350.00	45.8 AV	54.0	-8.2	1.39 H	10	39.4	6.4
7	#10520.00	59.2 PK	68.2	-9.0	1.68 H	334	41.6	17.6
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	5150.00	60.2 PK	74.0	-13.8	1.48 V	335	53.6	6.6
2	5150.00	47.6 AV	54.0	-6.4	1.48 V	335	41.0	6.6
3	*5260.00	122.0 PK			1.36 V	328	80.1	41.9
4	*5260.00	109.3 AV			1.36 V	328	67.4	41.9
5	5350.00	65.4 PK	74.0	-8.6	1.53 V	332	59.0	6.4
6	5350.00	53.0 AV	54.0	-1.0	1.53 V	332	46.6	6.4
7	#10520.00	59.4 PK	68.2	-8.8	1.55 V	339	41.8	17.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 56：5280 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.4 PK	74.0	-15.6	1.37 H	6	51.8	6.6
2	5150.00	45.1 AV	54.0	-8.9	1.37 H	6	38.5	6.6
3	#5250.00	59.6 PK	68.2	-8.6	1.33 H	8	53.5	6.1
4	*5280.00	113.1 PK			1.35 H	4	71.2	41.9
5	*5280.00	100.5 AV			1.35 H	4	58.6	41.9
6	5350.00	58.5 PK	74.0	-15.5	1.38 H	10	52.1	6.4
7	5350.00	45.0 AV	54.0	-9.0	1.38 H	10	38.6	6.4
8	#10560.00	59.1 PK	68.2	-9.1	1.72 H	348	41.6	17.5
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	5150.00	58.9 PK	74.0	-15.1	1.22 V	349	52.3	6.6
2	5150.00	46.2 AV	54.0	-7.8	1.22 V	349	39.6	6.6
3	#5250.00	66.9 PK	68.2	-1.3	1.17 V	360	60.8	6.1
4	*5280.00	120.0 PK			1.18 V	356	78.1	41.9
5	*5280.00	108.0 AV			1.18 V	356	66.1	41.9
6	5350.00	63.6 PK	74.0	-10.4	1.16 V	355	57.2	6.4
7	5350.00	50.9 AV	54.0	-3.1	1.16 V	355	44.5	6.4
8	#10560.00	59.3 PK	68.2	-8.9	1.55 V	329	41.8	17.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 60：5300 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5300.00	116.0 PK			1.36 H	5	74.1	41.9
2	*5300.00	104.3 AV			1.36 H	5	62.4	41.9
3	5350.00	59.2 PK	74.0	-14.8	1.38 H	10	52.8	6.4
4	5350.00	45.6 AV	54.0	-8.4	1.38 H	10	39.2	6.4
5	10600.00	58.9 PK	74.0	-15.1	1.72 H	342	41.7	17.2
6	10600.00	45.9 AV	54.0	-8.1	1.72 H	342	28.7	17.2
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	*5300.00	124.5 PK			1.12 V	355	82.6	41.9
2	*5300.00	112.0 AV			1.12 V	355	70.1	41.9
3	5350.00	64.5 PK	74.0	-9.5	1.27 V	354	58.1	6.4
4	5350.00	52.6 AV	54.0	-1.4	1.27 V	354	46.2	6.4
5	10600.00	58.9 PK	74.0	-15.1	1.48 V	337	41.7	17.2
6	10600.00	45.9 AV	54.0	-8.1	1.48 V	337	28.7	17.2

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.
5. " * ": Fundamental frequency.

RF Mode	TX 802.11ax (HE20)	Channel	CH 64：5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5320.00	112.9 PK			1.33 H	2	70.9	42.0
2	*5320.00	100.5 AV			1.33 H	2	58.5	42.0
3	5350.00	61.7 PK	74.0	-12.3	1.35 H	5	55.3	6.4
4	5350.00	46.3 AV	54.0	-7.7	1.35 H	5	39.9	6.4
5	10640.00	59.1 PK	74.0	-14.9	1.66 H	342	41.7	17.4
6	10640.00	45.9 AV	54.0	-8.1	1.66 H	342	28.5	17.4
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	*5320.00	119.0 PK			1.43 V	333	77.0	42.0
2	*5320.00	107.3 AV			1.43 V	333	65.3	42.0
3	5350.00	71.9 PK	74.0	-2.1	1.16 V	328	65.5	6.4
4	5350.00	52.8 AV	54.0	-1.2	1.16 V	328	46.4	6.4
5	10640.00	59.1 PK	74.0	-14.9	1.42 V	338	41.7	17.4
6	10640.00	46.1 AV	54.0	-7.9	1.42 V	338	28.7	17.4

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.

RF Mode	TX 802.11ax (HE20)	Channel	CH 100：5500 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	58.0 PK	74.0	-16.0	1.69 H	13	51.7	6.3
2	5460.00	44.8 AV	54.0	-9.2	1.69 H	13	38.5	6.3
3	#5470.00	58.0 PK	68.2	-10.2	1.72 H	8	51.7	6.3
4	*5500.00	110.4 PK			1.75 H	7	68.3	42.1
5	*5500.00	98.4 AV			1.75 H	7	56.3	42.1
6	11100.00	60.6 PK	74.0	-13.4	1.69 H	347	42.3	18.3
7	11100.00	46.5 AV	54.0	-7.5	1.69 H	347	28.2	18.3
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	5460.00	61.1 PK	74.0	-12.9	1.53 V	329	54.8	6.3
2	5460.00	38.1 AV	54.0	-15.9	1.53 V	329	31.8	6.3
3	#5470.00	66.9 PK	68.2	-1.3	1.52 V	333	60.6	6.3
4	*5500.00	119.9 PK			1.49 V	332	77.8	42.1
5	*5500.00	107.8 AV			1.49 V	332	65.7	42.1
6	11100.00	59.6 PK	74.0	-14.4	1.63 V	322	41.3	18.3
7	11100.00	45.8 AV	54.0	-8.2	1.63 V	322	27.5	18.3

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	58.2 PK	74.0	-15.8	1.93 H	6	51.9	6.3
2	5460.00	44.9 AV	54.0	-9.1	1.93 H	6	38.6	6.3
3	#5470.00	58.3 PK	68.2	-9.9	1.89 H	11	52.0	6.3
4	*5580.00	114.5 PK			2.00 H	8	72.4	42.1
5	*5580.00	101.7 AV			2.00 H	8	59.6	42.1
6	11160.00	59.7 PK	74.0	-14.3	1.69 H	318	41.2	18.5
7	11160.00	46.8 AV	54.0	-7.2	1.69 H	318	28.3	18.5
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	5460.00	60.8 PK	74.0	-13.2	1.44 V	328	54.5	6.3
2	5460.00	47.3 AV	54.0	-6.7	1.44 V	328	41.0	6.3
3	#5470.00	60.8 PK	68.2	-7.4	1.50 V	351	54.5	6.3
4	*5580.00	124.8 PK			1.48 V	330	82.7	42.1
5	*5580.00	112.3 AV			1.48 V	330	70.2	42.1
6	11160.00	60.1 PK	74.0	-13.9	1.70 V	339	41.6	18.5
7	11160.00	46.0 AV	54.0	-8.0	1.70 V	339	27.5	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5700.00	110.8 PK			2.01 H	20	68.5	42.3
2	*5700.00	97.8 AV			2.01 H	20	55.5	42.3
3	#5725.00	59.4 PK	68.2	-8.8	1.98 H	13	52.9	6.5
4	11400.00	60.0 PK	74.0	-14.0	1.92 H	344	42.1	17.9
5	11400.00	46.1 AV	54.0	-7.9	1.92 H	344	28.2	17.9
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	*5700.00	120.3 PK			1.42 V	331	78.0	42.3
2	*5700.00	107.0 AV			1.42 V	331	64.7	42.3
3	#5725.00	67.0 PK	68.2	-1.2	1.45 V	331	60.5	6.5
4	11400.00	59.9 PK	74.0	-14.1	1.58 V	321	42.0	17.9
5	11400.00	45.8 AV	54.0	-8.2	1.58 V	321	27.9	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE20)	Channel	CH 144：5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.0 PK	68.2	-10.2	1.73 H	18	51.7	6.3
2	*5720.00	114.4 PK			1.82 H	20	72.2	42.2
3	*5720.00	102.0 AV			1.82 H	20	59.8	42.2
4	#5850.00	59.1 PK	68.2	-9.1	1.77 H	16	52.3	6.8
5	11440.00	59.9 PK	74.0	-14.1	1.58 H	321	41.9	18.0
6	11440.00	45.2 AV	54.0	-8.8	1.58 H	321	27.2	18.0
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	#5470.00	59.5 PK	68.2	-8.7	1.47 V	318	53.2	6.3
2	*5720.00	125.1 PK			1.45 V	332	82.9	42.2
3	*5720.00	112.6 AV			1.45 V	332	70.4	42.2
4	#5850.00	60.6 PK	68.2	-7.6	1.52 V	337	53.8	6.8
5	11440.00	60.1 PK	74.0	-13.9	1.79 V	340	42.1	18.0
6	11440.00	45.3 AV	54.0	-8.7	1.79 V	340	27.3	18.0

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 54：5270 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.6 PK	74.0	-15.4	1.48 H	9	52.0	6.6
2	5150.00	45.7 AV	54.0	-8.3	1.48 H	9	39.1	6.6
3	*5270.00	112.6 PK			1.46 H	7	70.7	41.9
4	*5270.00	100.7 AV			1.46 H	7	58.8	41.9
5	5350.00	59.9 PK	74.0	-14.1	1.50 H	10	53.5	6.4
6	5350.00	46.0 AV	54.0	-8.0	1.50 H	10	39.6	6.4
7	#10540.00	59.2 PK	68.2	-9.0	1.68 H	341	41.6	17.6
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	5150.00	62.1 PK	74.0	-11.9	1.47 V	337	55.5	6.6
2	5150.00	49.1 AV	54.0	-4.9	1.47 V	337	42.5	6.6
3	*5270.00	120.0 PK			1.40 V	331	78.1	41.9
4	*5270.00	107.1 AV			1.40 V	331	65.2	41.9
5	5350.00	67.6 PK	74.0	-6.4	1.44 V	334	61.2	6.4
6	5350.00	52.7 AV	54.0	-1.3	1.44 V	334	46.3	6.4
7	#10540.00	59.2 PK	68.2	-9.0	1.39 V	342	41.6	17.6

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 62：5310 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5310.00	109.1 PK			1.34 H	4	67.1	42.0
2	*5310.00	97.0 AV			1.34 H	4	55.0	42.0
3	5350.00	60.8 PK	74.0	-13.2	1.36 H	10	54.4	6.4
4	5350.00	46.1 AV	54.0	-7.9	1.36 H	10	39.7	6.4
5	10620.00	59.1 PK	74.0	-14.9	1.66 H	328	41.7	17.4
6	10620.00	45.9 AV	54.0	-8.1	1.66 H	328	28.5	17.4
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	*5310.00	116.0 PK			1.31 V	328	74.0	42.0
2	*5310.00	103.3 AV			1.31 V	328	61.3	42.0
3	5350.00	68.3 PK	74.0	-5.7	1.59 V	331	61.9	6.4
4	5350.00	52.8 AV	54.0	-1.2	1.59 V	331	46.4	6.4
5	10620.00	59.0 PK	74.0	-15.0	1.42 V	331	41.6	17.4
6	10620.00	46.1 AV	54.0	-7.9	1.42 V	331	28.7	17.4

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.

RF Mode	TX 802.11ax (HE40)	Channel	CH 102：5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	57.9 PK	74.0	-16.1	1.76 H	22	51.6	6.3
2	5460.00	44.9 AV	54.0	-9.1	1.76 H	22	38.6	6.3
3	#5470.00	58.1 PK	68.2	-10.1	1.72 H	12	51.8	6.3
4	*5510.00	107.5 PK			1.81 H	26	65.4	42.1
5	*5510.00	94.1 AV			1.81 H	26	52.0	42.1
6	11120.00	60.2 PK	74.0	-13.8	1.72 H	312	41.8	18.4
7	11120.00	45.7 AV	54.0	-8.3	1.72 H	312	27.3	18.4
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	5460.00	63.3 PK	74.0	-10.7	1.46 V	335	57.0	6.3
2	5460.00	49.5 AV	54.0	-4.5	1.46 V	335	43.2	6.3
3	#5470.00	67.0 PK	68.2	-1.2	1.50 V	333	60.7	6.3
4	*5510.00	117.6 PK			1.46 V	332	75.5	42.1
5	*5510.00	105.1 AV			1.46 V	332	63.0	42.1
6	11120.00	59.5 PK	74.0	-14.5	1.69 V	322	41.1	18.4
7	11120.00	46.0 AV	54.0	-8.0	1.69 V	322	27.6	18.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 110：5550 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	57.6 PK	74.0	-16.4	1.74 H	20	51.3	6.3
2	5460.00	44.9 AV	54.0	-9.1	1.74 H	20	38.6	6.3
3	#5470.00	58.0 PK	68.2	-10.2	1.77 H	21	51.7	6.3
4	*5550.00	110.3 PK			1.80 H	26	68.2	42.1
5	*5550.00	97.1 AV			1.80 H	26	55.0	42.1
6	11100.00	60.4 PK	74.0	-13.6	1.82 H	346	42.1	18.3
7	11100.00	46.3 AV	54.0	-7.7	1.82 H	346	28.0	18.3
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	5460.00	61.6 PK	74.0	-12.4	1.47 V	329	55.3	6.3
2	5460.00	49.1 AV	54.0	-4.9	1.47 V	329	42.8	6.3
3	#5470.00	66.8 PK	68.2	-1.4	1.42 V	330	60.5	6.3
4	*5550.00	119.9 PK			1.43 V	332	77.8	42.1
5	*5550.00	106.9 AV			1.43 V	332	64.8	42.1
6	11100.00	60.1 PK	74.0	-13.9	1.71 V	341	41.8	18.3
7	11100.00	46.1 AV	54.0	-7.9	1.71 V	341	27.8	18.3

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 134：5670 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	*5670.00	105.8 PK			1.67 H	17	63.6	42.2
2	*5670.00	93.2 AV			1.67 H	17	51.0	42.2
3	#5725.00	59.7 PK	68.2	-8.5	1.65 H	12	53.2	6.5
4	11340.00	60.0 PK	74.0	-14.0	1.92 H	342	41.9	18.1
5	11340.00	45.3 AV	54.0	-8.7	1.92 H	342	27.2	18.1
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	*5670.00	117.6 PK			1.50 V	329	75.4	42.2
2	*5670.00	105.2 AV			1.50 V	329	63.0	42.2
3	#5725.00	66.6 PK	68.2	-1.6	1.58 V	331	60.1	6.5
4	11340.00	59.0 PK	74.0	-15.0	1.79 V	328	40.9	18.1
5	11340.00	46.1 AV	54.0	-7.9	1.79 V	328	28.0	18.1

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE40)	Channel	CH 142：5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.3 PK	68.2	-9.9	1.66 H	19	52.0	6.3
2	*5710.00	110.7 PK			1.64 H	15	68.4	42.3
3	*5710.00	98.5 AV			1.64 H	15	56.2	42.3
4	#5850.00	59.0 PK	68.2	-9.2	1.66 H	20	52.2	6.8
5	11420.00	59.8 PK	74.0	-14.2	1.88 H	341	41.9	17.9
6	11420.00	45.4 AV	54.0	-8.6	1.88 H	341	27.5	17.9
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	#5470.00	59.6 PK	68.2	-8.6	1.49 V	329	53.3	6.3
2	*5710.00	122.4 PK			1.53 V	331	80.1	42.3
3	*5710.00	110.3 AV			1.53 V	331	68.0	42.3
4	#5850.00	61.3 PK	68.2	-6.9	1.53 V	335	54.5	6.8
5	11420.00	59.2 PK	74.0	-14.8	1.58 V	305	41.3	17.9
6	11420.00	45.1 AV	54.0	-8.9	1.58 V	305	27.2	17.9

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 58：5290 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5150.00	58.7 PK	74.0	-15.3	1.39 H	10	52.1	6.6
2	5150.00	45.1 AV	54.0	-8.9	1.39 H	10	38.5	6.6
3	*5290.00	106.5 PK			1.37 H	5	64.6	41.9
4	*5290.00	93.6 AV			1.37 H	5	51.7	41.9
5	5350.00	61.1 PK	74.0	-12.9	1.41 H	8	54.7	6.4
6	5350.00	46.7 AV	54.0	-7.3	1.41 H	8	40.3	6.4
7	#10580.00	58.9 PK	68.2	-9.3	1.71 H	341	41.5	17.4
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	5150.00	60.4 PK	74.0	-13.6	1.62 V	338	53.8	6.6
2	5150.00	47.8 AV	54.0	-6.2	1.62 V	338	41.2	6.6
3	*5290.00	113.0 PK			1.56 V	328	71.1	41.9
4	*5290.00	100.6 AV			1.56 V	328	58.7	41.9
5	5350.00	68.5 PK	74.0	-5.5	1.57 V	332	62.1	6.4
6	5350.00	52.8 AV	54.0	-1.2	1.57 V	332	46.4	6.4
7	#10580.00	59.0 PK	68.2	-9.2	1.35 V	328	41.6	17.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	58.4 PK	74.0	-15.6	1.62 H	8	52.1	6.3
2	5460.00	45.5 AV	54.0	-8.5	1.62 H	8	39.2	6.3
3	#5470.00	58.9 PK	68.2	-9.3	1.68 H	8	52.6	6.3
4	*5530.00	103.8 PK			1.70 H	6	61.7	42.1
5	*5530.00	91.1 AV			1.70 H	6	49.0	42.1
6	#5725.00	58.3 PK	68.2	-9.9	1.66 H	12	51.8	6.5
7	11060.00	60.4 PK	74.0	-13.6	1.91 H	352	42.0	18.4
8	11060.00	46.7 AV	54.0	-7.3	1.91 H	352	28.3	18.4
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	5460.00	65.2 PK	74.0	-8.8	1.44 V	319	58.9	6.3
2	5460.00	50.6 AV	54.0	-3.4	1.44 V	319	44.3	6.3
3	#5470.00	66.8 PK	68.2	-1.4	1.51 V	332	60.5	6.3
4	*5530.00	114.7 PK			1.51 V	331	72.6	42.1
5	*5530.00	101.4 AV			1.51 V	331	59.3	42.1
6	#5725.00	61.9 PK	68.2	-6.3	1.48 V	340	55.4	6.5
7	11060.00	60.2 PK	74.0	-13.8	1.70 V	331	41.8	18.4
8	11060.00	46.0 AV	54.0	-8.0	1.70 V	331	27.6	18.4

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 122：5610 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	5460.00	58.6 PK	74.0	-15.4	1.48 H	5	52.3	6.3
2	5460.00	44.7 AV	54.0	-9.3	1.48 H	5	38.4	6.3
3	#5470.00	57.9 PK	68.2	-10.3	1.43 H	8	51.6	6.3
4	*5610.00	102.6 PK			1.48 H	3	60.5	42.1
5	*5610.00	90.5 AV			1.48 H	3	48.4	42.1
6	#5725.00	58.6 PK	68.2	-9.6	1.50 H	13	52.1	6.5
7	11220.00	60.5 PK	74.0	-13.5	1.79 H	340	42.0	18.5
8	11220.00	46.1 AV	54.0	-7.9	1.79 H	340	27.6	18.5
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	5460.00	59.7 PK	74.0	-14.3	1.49 V	340	53.4	6.3
2	5460.00	46.6 AV	54.0	-7.4	1.49 V	340	40.3	6.3
3	#5470.00	60.3 PK	68.2	-7.9	1.44 V	328	54.0	6.3
4	*5610.00	115.5 PK			1.37 V	330	73.4	42.1
5	*5610.00	103.1 AV			1.37 V	330	61.0	42.1
6	#5725.00	66.9 PK	68.2	-1.3	1.46 V	334	60.4	6.5
7	11220.00	60.3 PK	74.0	-13.7	1.59 V	315	41.8	18.5
8	11220.00	46.4 AV	54.0	-7.6	1.59 V	315	27.9	18.5

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.
6. " # ": The radiated frequency is out of the restricted band.

RF Mode	TX 802.11ax (HE80)	Channel	CH 138：5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

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	#5470.00	58.1 PK	68.2	-10.1	1.46 H	3	51.8	6.3
2	*5690.00	107.2 PK			1.41 H	1	64.9	42.3
3	*5690.00	95.3 AV			1.41 H	1	53.0	42.3
4	#5850.00	59.4 PK	68.2	-8.8	1.45 H	10	52.6	6.8
5	11380.00	60.0 PK	74.0	-14.0	1.88 H	335	42.2	17.8
6	11380.00	45.9 AV	54.0	-8.1	1.88 H	335	28.1	17.8
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	#5470.00	60.0 PK	68.2	-8.2	1.48 V	328	53.7	6.3
2	*5690.00	119.7 PK			1.55 V	330	77.4	42.3
3	*5690.00	107.1 AV			1.55 V	330	64.8	42.3
4	#5850.00	66.8 PK	68.2	-1.4	1.51 V	329	60.0	6.8
5	11380.00	59.9 PK	74.0	-14.1	1.69 V	332	42.1	17.8
6	11380.00	45.8 AV	54.0	-8.2	1.69 V	332	28.0	17.8

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.
6. " # ": The radiated frequency is out of the restricted band.

Below 1GHz Worst-Case Data:

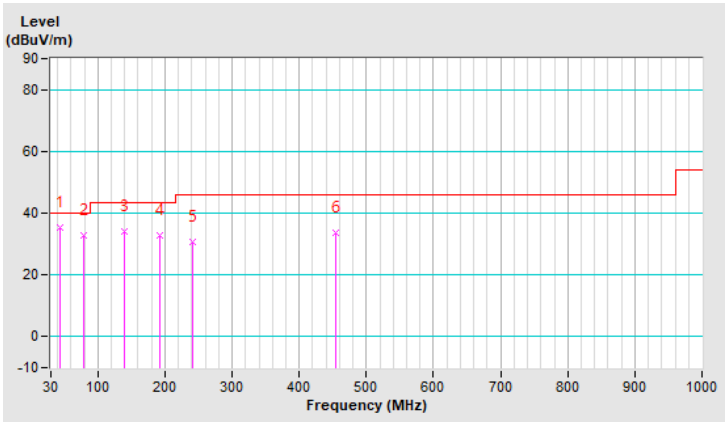
5G traffic radio (Radio 1)

RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	44.06	35.5 QP	40.0	-4.5	1.00 H	250	44.7	-9.2
2	79.20	32.7 QP	40.0	-7.3	1.50 H	106	45.8	-13.1
3	139.65	33.9 QP	43.5	-9.6	1.50 H	143	42.9	-9.0
4	191.67	32.9 QP	43.5	-10.6	2.00 H	259	43.9	-11.0
5	240.87	30.6 QP	46.0	-15.4	1.50 H	54	39.7	-9.1
6	454.55	33.5 QP	46.0	-12.5	2.00 H	169	36.6	-3.1

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 of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

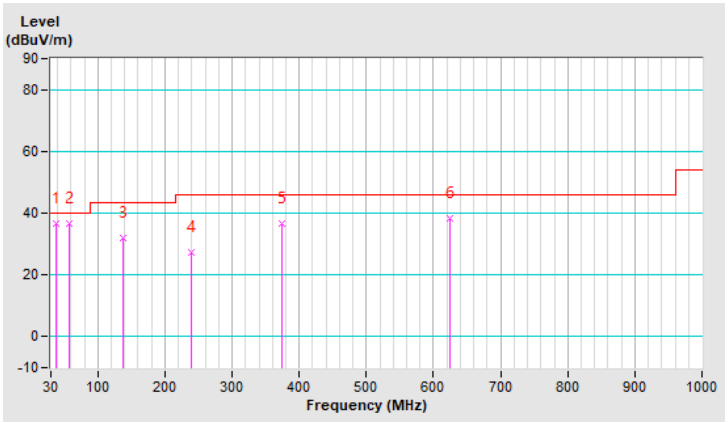


RF Mode	TX 802.11ax (HE20)	Channel	CH 140：5700 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	38.43	36.7 QP	40.0	-3.3	1.50 V	265	46.5	-9.8
2	58.12	36.8 QP	40.0	-3.2	1.50 V	14	46.1	-9.3
3	138.25	31.9 QP	43.5	-11.6	1.50 V	274	41.0	-9.1
4	239.46	27.1 QP	46.0	-18.9	1.50 V	14	36.3	-9.2
5	374.42	36.6 QP	46.0	-9.4	1.00 V	142	41.7	-5.1
6	624.65	38.2 QP	46.0	-7.8	2.00 V	187	37.4	0.8

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



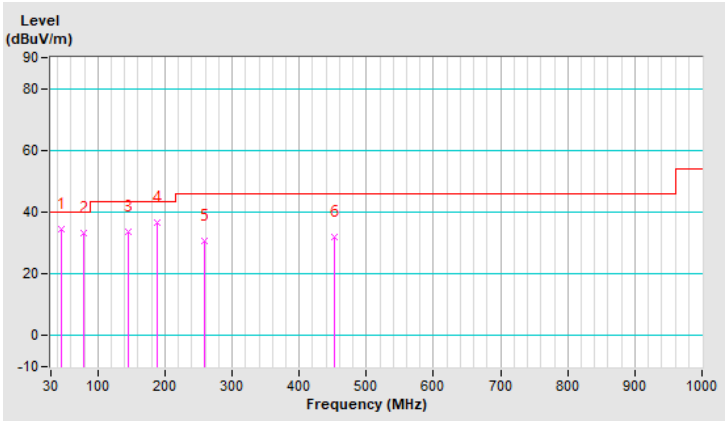
5G traffic radio (Radio 2)

RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	45.46	34.5 QP	40.0	-5.5	2.00 H	220	43.6	-9.1
2	79.20	33.3 QP	40.0	-6.7	1.00 H	140	46.4	-13.1
3	145.28	33.6 QP	43.5	-9.9	1.50 H	205	42.3	-8.7
4	187.45	36.5 QP	43.5	-7.0	1.50 H	239	47.2	-10.7
5	259.14	30.7 QP	46.0	-15.3	1.50 H	260	38.8	-8.1
6	453.14	31.9 QP	46.0	-14.1	1.00 H	156	35.1	-3.2

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

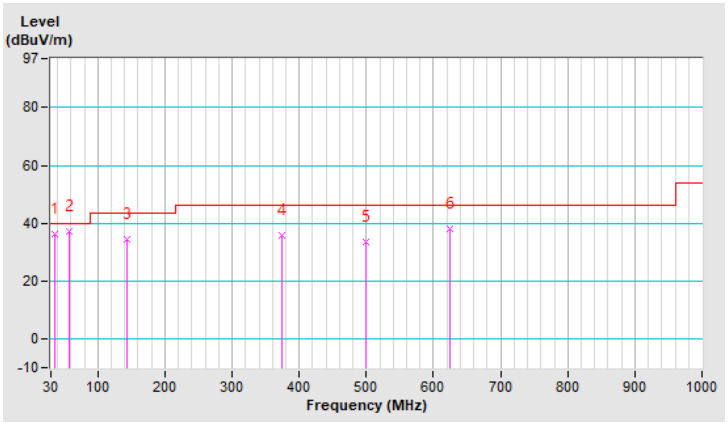


RF Mode	TX 802.11ax (HE80)	Channel	CH 106：5530 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	35.62	36.1 QP	40.0	-3.9	1.00 V	5	46.4	-10.3
2	**58.12**	**37.0 QP**	**40.0**	**-3.0**	**1.50 V**	**18**	**46.3**	**-9.3**
3	142.46	34.3 QP	43.5	-9.2	1.50 V	263	43.2	-8.9
4	374.42	35.9 QP	46.0	-10.1	1.50 V	144	41.0	-5.1
5	499.54	33.3 QP	46.0	-12.7	2.00 V	326	35.6	-2.3
6	624.65	38.2 QP	46.0	-7.8	1.50 V	178	37.4	0.8

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



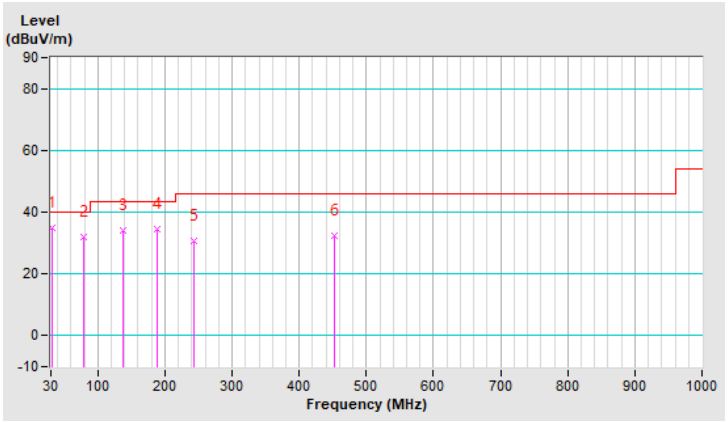
5G traffic radio (Radio 3)

RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	32.81	35.1 QP	40.0	-4.9	1.00 H	269	46.0	-10.9
2	79.20	31.9 QP	40.0	-8.1	1.50 H	300	45.0	-13.1
3	136.84	34.2 QP	43.5	-9.3	2.00 H	151	43.5	-9.3
4	187.45	34.4 QP	43.5	-9.1	1.50 H	236	45.1	-10.7
5	242.28	30.7 QP	46.0	-15.3	1.00 H	58	39.7	-9.0
6	453.14	32.5 QP	46.0	-13.5	1.50 H	143	35.7	-3.2

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

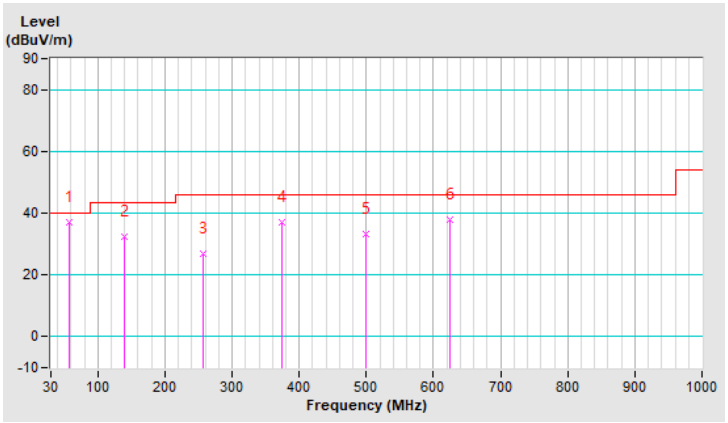


RF Mode	TX 802.11a	Channel	CH 116：5580 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	**56.71**	**36.9 QP**	**40.0**	**-3.1**	**1.50 V**	**4**	**46.2**	**-9.3**
2	139.65	32.2 QP	43.5	-11.3	1.50 V	263	41.2	-9.0
3	257.74	26.7 QP	46.0	-19.3	1.50 V	4	34.8	-8.1
4	374.42	36.9 QP	46.0	-9.1	1.00 V	140	42.0	-5.1
5	499.54	33.2 QP	46.0	-12.8	1.50 V	337	35.5	-2.3
6	624.65	38.0 QP	46.0	-8.0	1.00 V	187	37.2	0.8

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 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 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 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100424	Dec. 31, 2019	Dec. 30, 2020
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 04, 2020	Sep. 03, 2021
V-LISN SCHWARZBECK (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 28, 2020	Aug. 27, 2021
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1 (Conduction 1).
3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

a. The EUT was 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/ 50uH of coupling impedance for the measuring instrument.

b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

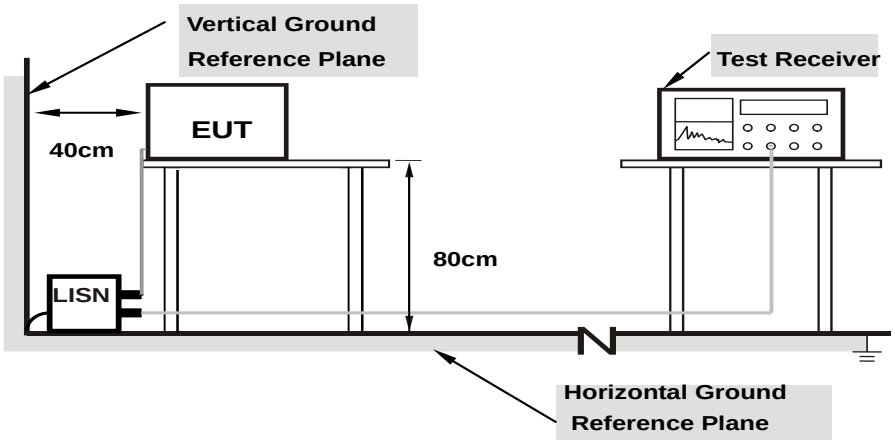
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Worst-case data:

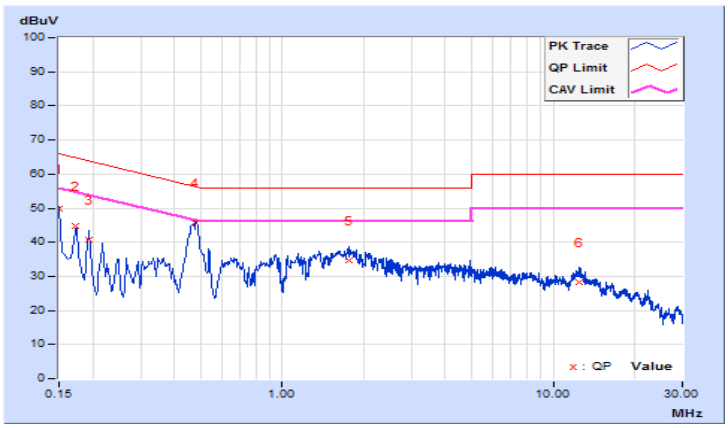
5G traffic radio (Radio 1)

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23℃, 67%RH
Tested by	Adair Peng	Test Date	2020/12/25

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	0.15000	9.65	40.07	27.38	49.72	37.03	66.00	56.00	-16.28	-18.97
2	0.17293	9.65	35.20	21.99	44.85	31.64	64.82	54.82	-19.97	-23.18
3	0.19400	9.66	31.13	17.19	40.79	26.85	63.86	53.86	-23.07	-27.01
4	0.47800	9.66	36.20	31.46	45.86	41.12	56.37	46.37	-10.51	-5.25
5	1.76200	9.69	25.13	20.91	34.82	30.60	56.00	46.00	-21.18	-15.40
6	12.54600	9.82	18.30	13.54	28.12	23.36	60.00	50.00	-31.88	-26.64

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

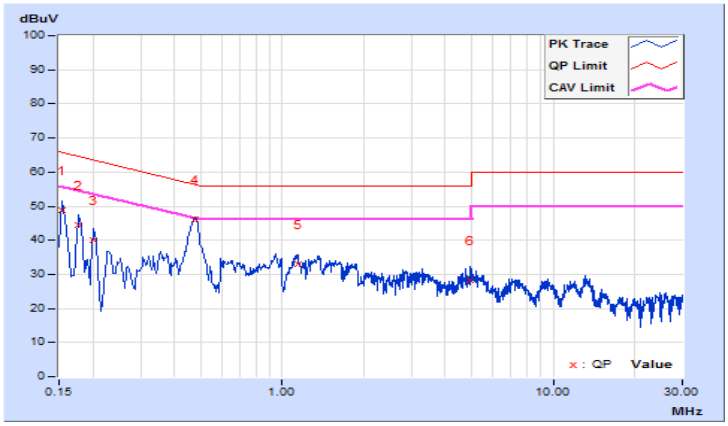


Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	23℃, 67%RH
Tested by	Adair Peng	**Test Date**	2020/12/25

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	0.15400	9.68	39.10	26.14	48.78	35.82	65.78	55.78	-17.00	-19.96
2	0.17800	9.68	34.71	20.81	44.39	30.49	64.58	54.58	-20.19	-24.09
3	0.20200	9.68	30.26	16.19	39.94	25.87	63.53	53.53	-23.59	-27.66
4	**0.47800**	**9.68**	**36.38**	**31.67**	**46.06**	**41.35**	**56.37**	**46.37**	**-10.31**	**-5.02**
5	1.14200	9.70	23.28	19.10	32.98	28.80	56.00	46.00	-23.02	-17.20
6	4.95000	9.78	18.35	12.13	28.13	21.91	56.00	46.00	-27.87	-24.09

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



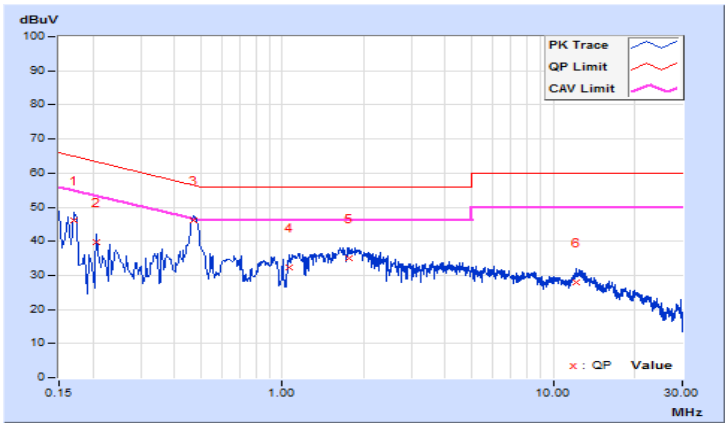
5G traffic radio (Radio 2)

Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	23℃, 67%RH
Tested by	Adair Peng	**Test Date**	2020/12/25

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	0.17000	9.65	36.37	23.15	46.02	32.80	64.96	54.96	-18.94	-22.16
2	0.20600	9.66	30.15	17.38	39.81	27.04	63.37	53.37	-23.56	-26.33
3	0.47000	9.66	36.45	30.87	46.11	40.53	56.51	46.51	-10.40	-5.98
4	1.05800	9.67	22.51	17.78	32.18	27.45	56.00	46.00	-23.82	-18.55
5	1.77400	9.69	25.28	21.10	34.97	30.79	56.00	46.00	-21.03	-15.21
6	12.24600	9.82	18.29	13.55	28.11	23.37	60.00	50.00	-31.89	-26.63

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

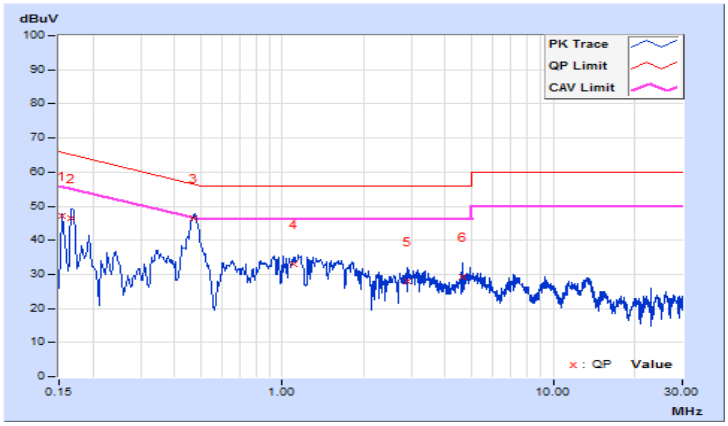


Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	23℃, 67%RH
Tested by	Adair Peng	**Test Date**	2020/12/25

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	0.15400	9.68	37.33	26.16	47.01	35.84	65.78	55.78	-18.77	-19.94
2	0.16600	9.68	36.77	22.72	46.45	32.40	65.16	55.16	-18.71	-22.76
3	0.47185	9.68	36.74	31.18	46.42	40.86	56.48	46.48	-10.06	-5.62
4	1.10600	9.69	23.38	19.32	33.07	29.01	56.00	46.00	-22.93	-16.99
5	2.90594	9.75	18.07	11.50	27.82	21.25	56.00	46.00	-28.18	-24.75
6	4.64600	9.78	19.41	11.30	29.19	21.08	56.00	46.00	-26.81	-24.92

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



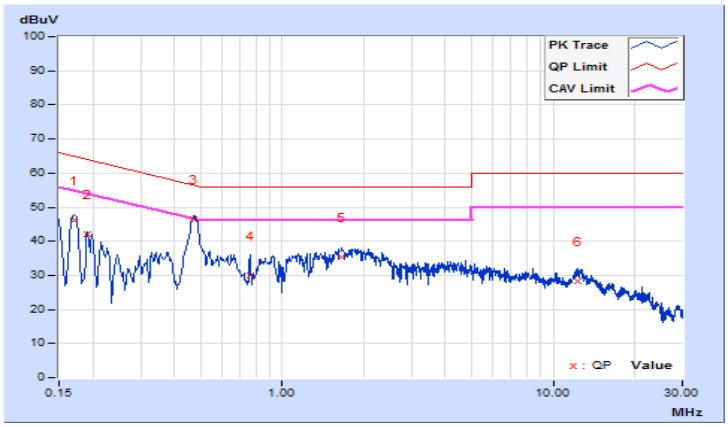
5G traffic radio (Radio 3)

Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	23℃, 67%RH
Tested by	Adair Peng	**Test Date**	2020/12/25

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	0.16932	9.65	36.55	23.39	46.20	33.04	64.99	54.99	-18.79	-21.95
2	0.19000	9.66	32.50	18.97	42.16	28.63	64.04	54.04	-21.88	-25.41
3	0.47309	9.66	36.65	31.22	46.31	40.88	56.46	46.46	-10.15	-5.58
4	0.75800	9.67	20.13	13.69	29.80	23.36	56.00	46.00	-26.20	-22.64
5	1.65360	9.69	25.74	21.51	35.43	31.20	56.00	46.00	-20.57	-14.80
6	12.30200	9.82	18.42	13.64	28.24	23.46	60.00	50.00	-31.76	-26.54

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

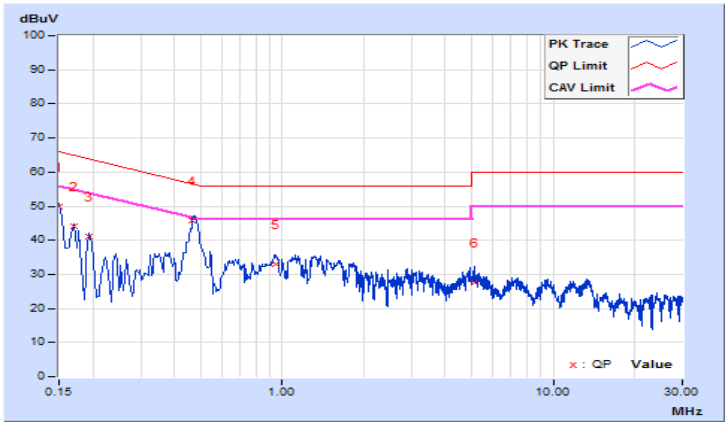


Frequency Range	150kHz ~ 30MHz	**Detector Function & Resolution Bandwidth**	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	**Environmental Conditions**	23℃, 67%RH
Tested by	Adair Peng	**Test Date**	2020/12/25

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	9.68	40.24	27.23	49.92	36.91	66.00	56.00	-16.08	-19.09
2	0.16977	9.68	34.33	23.12	44.01	32.80	64.97	54.97	-20.96	-22.17
3	0.19400	9.68	31.25	16.66	40.93	26.34	63.86	53.86	-22.93	-27.52
4	0.46690	9.68	36.18	30.79	45.86	40.47	56.57	46.57	-10.71	-6.10
5	0.95000	9.69	23.29	18.69	32.98	28.38	56.00	46.00	-23.02	-17.62
6	5.15800	9.78	17.84	11.63	27.62	21.41	60.00	50.00	-32.38	-28.59

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
		Mobile and Portable client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3			1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

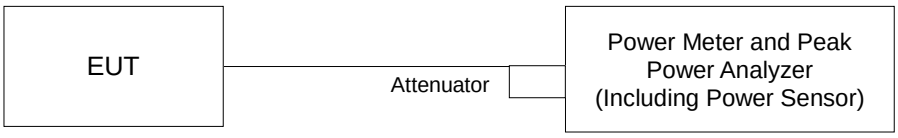
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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.

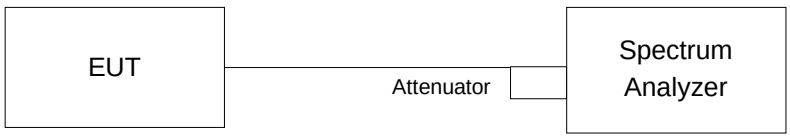
4.3.2 Test Setup

For Power Output

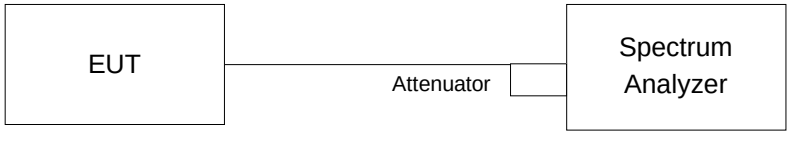


or

For straddle channel measurement:



For 26dB Bandwidth



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

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.

For straddle channel power measurement refers to FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II Measurement Procedures section E. 2.:

Method SA-1:

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW =1MHz.
3. Set the VBW ≥ 3 x RBW.
4. Number of points in sweep ≥ 2 Span / RBW.
5. Sweep time = auto.
6. If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

For 26dB Bandwidth

a. Set RBW = approximately 1% of the emission bandwidth.

b. Set the VBW > RBW.

c. Detector = Peak.

d. Trace mode = max hold.

e. Measure the maximum width of the emission that is 26 dB down from the 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%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

Power Output:

5G traffic radio (Radio 1)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
100	5500	11.05	11.10	25.618	14.09	19.18	Pass
116	5580	10.15	10.05	20.467	13.11	19.18	Pass
140	5700	11.10	11.32	26.434	14.22	19.18	Pass
144	5720 (U-NII-2C)	7.01	7.87	11.902	10.76	18.14	Pass
144	5720 (U-NII-3)	1.03	2.45	3.231	5.09	25.18	Pass

Note:
1. 5500-5700MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5720MHz (U-NII-2C): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 22.96-(10.82-6) = 18.14dBm.
3. 5720 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (21.69) = 24.36 dBm > 24 dBm.
2. 11 dBm + 10log (21.76) = 24.37 dBm > 24 dBm.
3. 11 dBm + 10log (21.75) = 24.37 dBm > 24 dBm.
4. 11 dBm + 10log (15.71) = 22.96 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.70) = 24.36 dBm > 24 dBm.
2. 11 dBm + 10log (21.67) = 24.35 dBm > 24 dBm.
3. 11 dBm + 10log (21.85) = 24.39 dBm > 24 dBm.
4. 11 dBm + 10log (15.74) = 22.97 dBm < 24 dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
100	5500	11.97	12.00	31.589	15.00	19.18	Pass
116	5580	11.03	11.07	25.47	14.06	19.18	Pass
140	5700	11.06	11.00	25.354	14.04	19.18	Pass
144	5720 (U-NII-2C)	9.59	9.46	18.489	12.67	18.19	Pass
144	5720 (U-NII-3)	5.13	4.50	6.266	7.97	25.18	Pass

Note:
1. 5500-5700MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5720MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 23.01-(10.82-6) = 18.19dBm.
3. 5720 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
4. 11 dBm + 10log (15.94) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
4. 11 dBm + 10log (15.92) = 23.01 dBm < 24 dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
102	5510	15.05	15.66	68.802	18.38	19.18	Pass
110	5550	14.10	14.64	54.811	17.39	19.18	Pass
134	5670	14.14	14.40	53.484	17.28	19.18	Pass
142	5710 (U-NII-2C)	11.61	11.38	29.612	14.71	19.18	Pass
142	5710 (U-NII-3)	2.78	3.63	4.41	6.44	25.18	Pass

Note:
1. 5510-5670MHz & 5710 MHz (U-NII-2C) Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5710 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.54) = 27.18 dBm > 24 dBm.
3. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.54) = 26.50 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.48) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.59) = 26.51 dBm > 24 dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
100	5500	12.04	12.04	31.991	15.05	19.18	Pass
116	5580	11.09	11.09	25.706	14.10	19.18	Pass
140	5700	11.13	11.06	25.736	14.11	19.18	Pass
144	5720 (U-NII-2C)	9.68	9.52	18.812	12.74	18.19	Pass
144	5720 (U-NII-3)	5.22	4.56	6.377	8.05	25.18	Pass

Note:
1. 5500-5700MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5720MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 23.01-(10.82-6) = 18.19dBm.
3. 5720 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
4. 11 dBm + 10log (15.94) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
4. 11 dBm + 10log (15.92) = 23.01 dBm < 24 dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
102	5510	15.14	15.70	69.812	18.44	19.18	Pass
110	5550	14.19	14.67	55.551	17.45	19.18	Pass
134	5670	14.20	14.46	54.228	17.34	19.18	Pass
142	5710 (U-NII-2C)	11.69	11.48	30.231	14.80	19.18	Pass
142	5710 (U-NII-3)	2.86	3.73	4.503	6.54	25.18	Pass

Note:
1. 5510-5670MHz & 5710 MHz (U-NII-2C) Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5710 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.54) = 27.18 dBm > 24 dBm.
3. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.54) = 26.50 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.48) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.59) = 26.51 dBm > 24 dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
106	5530	16.25	15.54	77.979	18.92	19.18	Pass
122	5610	16.28	15.48	77.78	18.91	19.18	Pass
138	5690 (U-NII-2C)	11.83	11.76	33.061	15.19	19.18	Pass
138	5690 (U-NII-3)	-1.09	-1.20	1.6801	2.25	25.18	Pass

Note:
1. 5530-5610MHz & 5690 MHz (U-NII-2C): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5690 MHz (U-NII-3): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (82.34) = 30.15 dBm > 24 dBm.
2. 11 dBm + 10log (82.47) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (82.49) = 30.16 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
100	5500	12.11	12.14	32.624	15.14	19.18	Pass
116	5580	11.16	11.19	26.214	14.19	19.18	Pass
140	5700	11.19	11.13	26.124	14.17	19.18	Pass
144	5720 (U-NII-2C)	9.73	9.61	19.116	12.81	18.19	Pass
144	5720 (U-NII-3)	5.27	4.65	6.478	8.11	25.18	Pass

Note:
1. 5500-5700MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5720MHz: Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 23.01-(10.82-6) = 18.19dBm.
3. 5720 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
4. 11 dBm + 10log (15.94) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
4. 11 dBm + 10log (15.92) = 23.01 dBm < 24 dBm.

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
102	5510	15.20	15.80	71.132	18.52	19.18	Pass
110	5550	14.24	14.75	56.4	17.51	19.18	Pass
134	5670	14.28	14.55	55.302	17.43	19.18	Pass
142	5710 (U-NII-2C)	11.76	11.53	30.653	14.86	19.18	Pass
142	5710 (U-NII-3)	2.93	3.78	4.565	6.59	25.18	Pass

Note:
1. 5510-5670MHz & 5710 MHz (U-NII-2C) Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5710 MHz (U-NII-3)): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.54) = 27.18 dBm > 24 dBm.
3. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.54) = 26.50 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.48) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.59) = 26.51 dBm > 24 dBm.

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
106	5530	16.33	15.61	79.345	19.00	19.18	Pass
122	5610	16.35	15.55	79.044	18.98	19.18	Pass
138	5690 (U-NII-2C)	11.93	11.83	33.715	15.28	19.18	Pass
138	5690 (U-NII-3)	-0.99	-1.13	1.7134	2.34	25.18	Pass

Note:
1. 5530-5610MHz & 5690 MHz (U-NII-2C): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 24-(10.82-6) = 19.18dBm.
2. 5690 MHz (U-NII-3): Max. Gain = 10.82dBi > 6dBi, so the power limit shall be reduced to 30-(10.82-6) = 25.18dBm.

Chain 0
1. 11 dBm + 10log (82.34) = 30.15 dBm > 24 dBm.
2. 11 dBm + 10log (82.47) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (82.49) = 30.16 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
100	5500	9.04	9.05	16.052	12.06	16.46	Pass
116	5580	8.06	8.11	12.869	11.10	16.46	Pass
140	5700	8.08	8.07	12.839	11.09	16.46	Pass
144	5720 (U-NII-2C)	6.65	6.50	9.374	9.72	15.47	Pass
144	5720 (U-NII-3)	2.19	1.54	3.177	5.02	22.46	Pass

Note:

1. 5500-5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power limit shall be reduced to 24-(13.54-6) = 16.46dBm.
2. 5720 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power limit shall be reduced to 23.01-(13.54-6) = 15.47dBm.
3. 5720 MHz (U-NII-3): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 30-(13.54-6) = 22.46dBm.

Chain 0

1. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
4. 11 dBm + 10log (15.94) = 23.02 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
4. 11 dBm + 10log (15.92) = 23.01 dBm < 24 dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
102	5510	12.14	12.71	35.032	15.44	16.46	Pass
110	5550	11.15	11.64	27.62	14.41	16.46	Pass
134	5670	11.17	11.45	27.056	14.32	16.46	Pass
142	5710 (U-NII-2C)	8.65	8.43	14.995	11.76	16.46	Pass
142	5710 (U-NII-3)	-0.18	0.68	2.2333	3.49	22.46	Pass

Note:
1. 5510-5670MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 24-(13.54-6) = 16.46dBm.
2. 5710 MHz (U-NII-3): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 30-(13.54-6) = 22.46dBm.

Chain 0
1. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.54) = 27.18 dBm > 24 dBm.
3. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.54) = 26.50 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.48) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.59) = 26.51 dBm > 24 dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
106	5530	13.27	12.52	39.097	15.92	16.46	Pass
122	5610	13.24	12.45	38.666	15.87	16.46	Pass
138	5690 (U-NII-2C)	8.83	8.76	16.57	12.19	16.46	Pass
138	5690 (U-NII-3)	-4.09	-4.20	0.842	-0.75	22.46	Pass

Note:
1. 5530-5610MHz & 5690 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 24-(13.54-6) = 16.46dBm.
2. 5690 MHz (U-NII-3): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 30-(13.54-6) = 22.46dBm.

Chain 0
1. 11 dBm + 10log (82.34) = 30.15 dBm > 24 dBm.
2. 11 dBm + 10log (82.47) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (82.49) = 30.16 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
100	5500	9.10	9.13	16.313	12.13	16.46	Pass
116	5580	8.15	8.18	13.108	11.18	16.46	Pass
140	5700	8.18	8.12	13.063	11.16	16.46	Pass
144	5720 (U-NII-2C)	6.72	6.60	9.559	9.80	15.47	Pass
144	5720 (U-NII-3)	2.26	1.64	3.239	5.10	22.46	Pass

Note:
1. 5500-5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power limit shall be reduced to 24-(13.54-6) = 16.46dBm.
2. 5720 (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power limit shall be reduced to 23.01-(13.54-6) = 15.47dBm.
3. 5720 MHz (U-NII-3): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 30-(13.54-6) = 22.46dBm.

Chain 0
1. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
4. 11 dBm + 10log (15.94) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.86) = 24.39 dBm > 24 dBm.
4. 11 dBm + 10log (15.92) = 23.01 dBm < 24 dBm.

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
102	5510	12.19	12.79	35.568	15.51	16.46	Pass
110	5550	11.23	11.74	28.202	14.50	16.46	Pass
134	5670	11.27	11.54	27.653	14.42	16.46	Pass
142	5710 (U-NII-2C)	8.75	8.52	15.327	11.85	16.46	Pass
142	5710 (U-NII-3)	-0.08	0.77	2.2824	3.58	22.46	Pass

Note:
1. 5510-5670MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 24-(13.54-6) = 16.46dBm.
2. 5710 MHz (U-NII-3): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 30-(13.54-6) = 22.46dBm.

Chain 0
1. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.54) = 27.18 dBm > 24 dBm.
3. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.54) = 26.50 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.48) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (35.59) = 26.51 dBm > 24 dBm.

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
106	5530	13.32	12.60	39.675	15.99	16.46	Pass
122	5610	13.34	12.54	39.525	15.97	16.46	Pass
138	5690 (U-NII-2C)	8.92	8.82	16.859	12.27	16.46	Pass
138	5690 (U-NII-3)	-4.00	-4.14	0.8567	-0.67	22.46	Pass

Note:
1. 5530-5610MHz & 5690 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 24-(13.54-6) = 16.46dBm.
2. 5690 MHz (U-NII-3): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] =13.54dBi > 6dBi, so the power limit shall be reduced to 30-(13.54-6) = 22.46dBm.

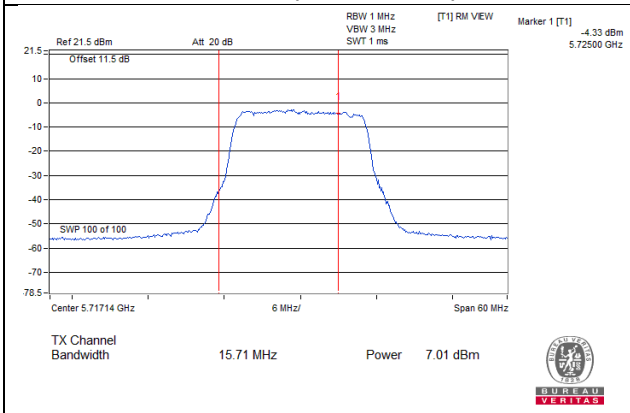
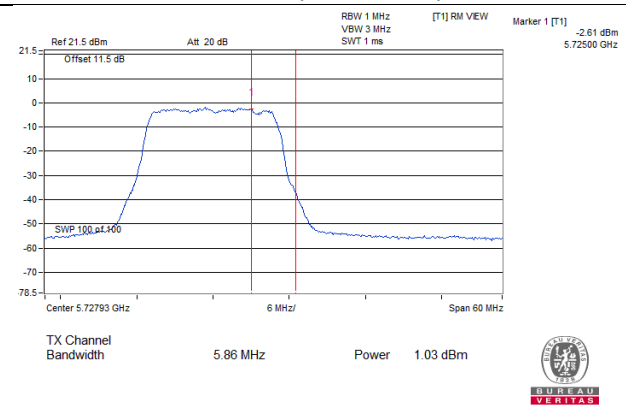
Chain 0
1. 11 dBm + 10log (82.34) = 30.15 dBm > 24 dBm.
2. 11 dBm + 10log (82.47) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (82.49) = 30.16 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (75.84) = 29.79 dBm > 24 dBm.

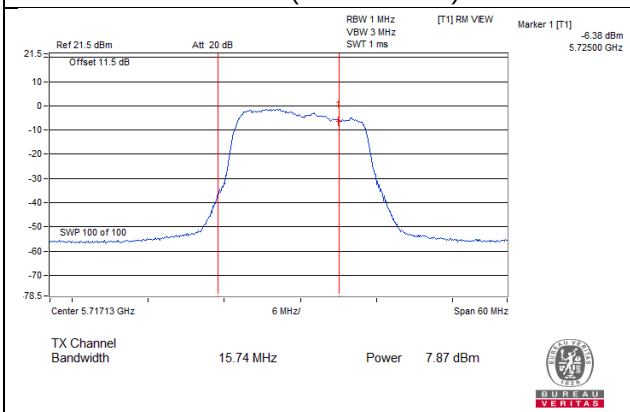
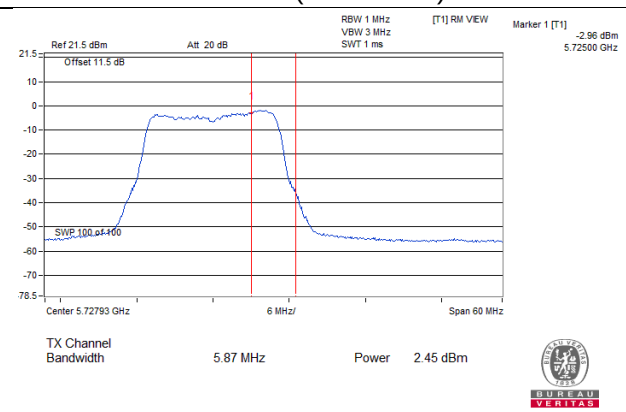
Straddle channel power plots:

802.11a

Chain 0

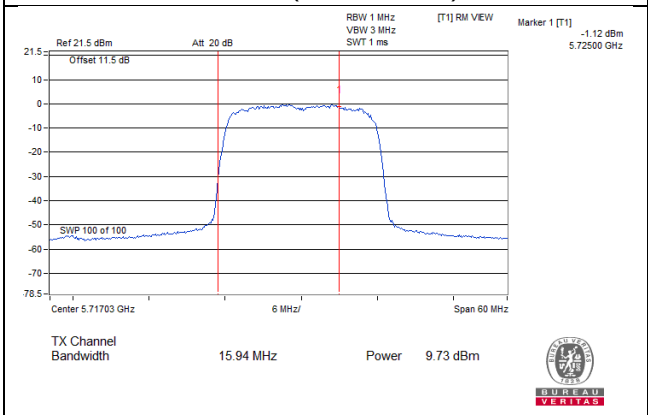
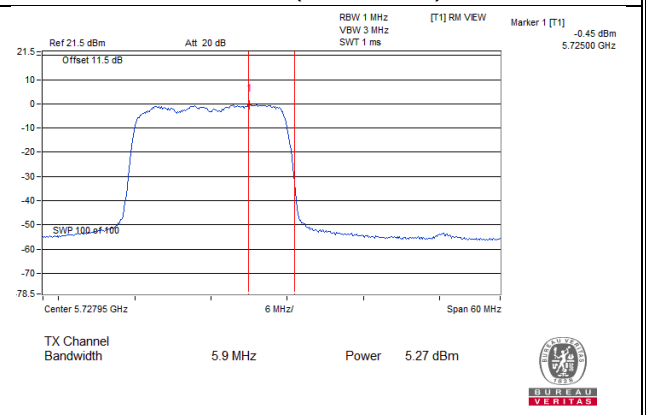
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	

Chain 1

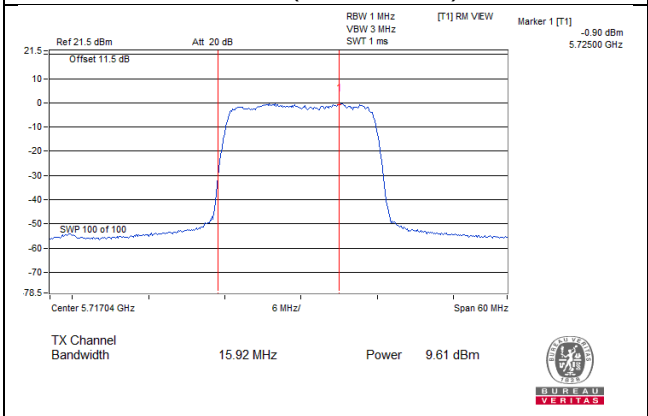
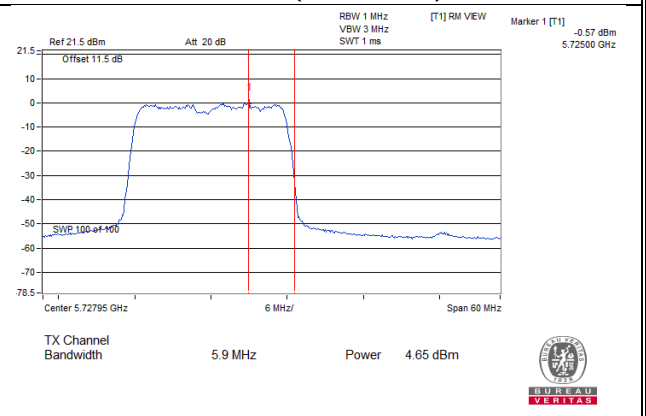
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	

802.11ax (HE20)

Chain 0

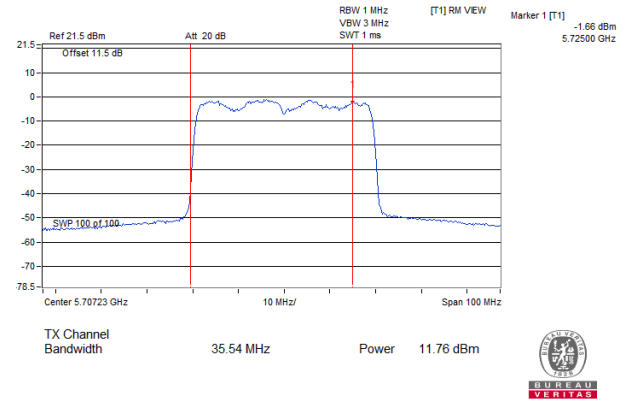
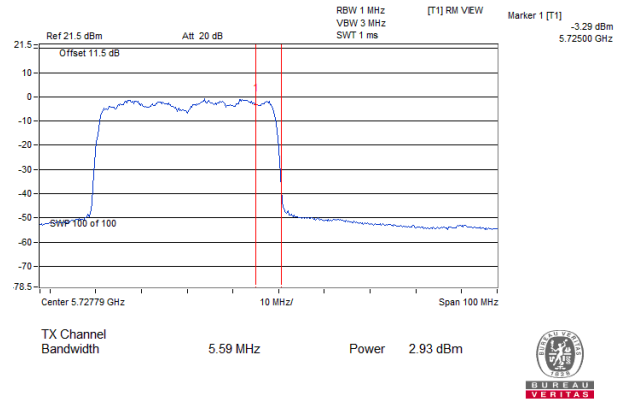
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	
TX Channel Bandwidth 15.94 MHz Power 9.73 dBm	TX Channel Bandwidth 5.9 MHz Power 5.27 dBm

Chain 1

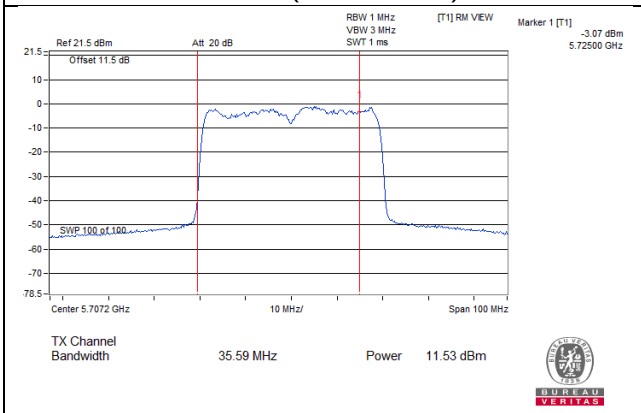
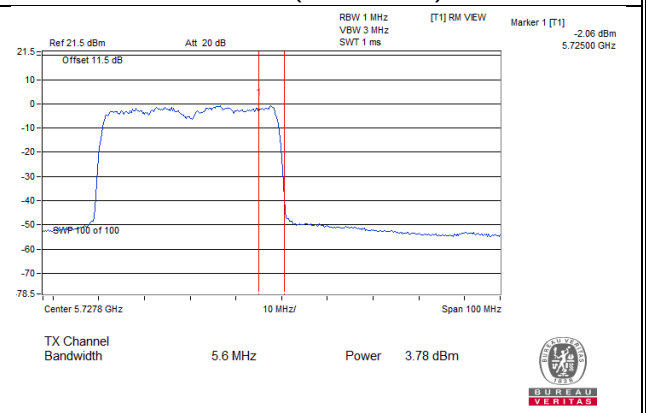
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	
TX Channel Bandwidth 15.92 MHz Power 9.61 dBm	TX Channel Bandwidth 5.9 MHz Power 4.65 dBm

802.11ax (HE40)

Chain 0

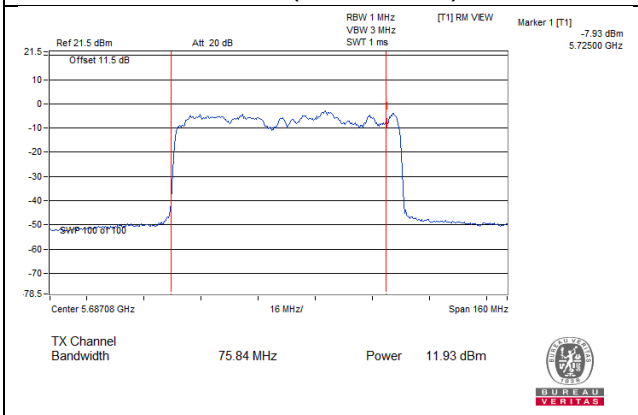
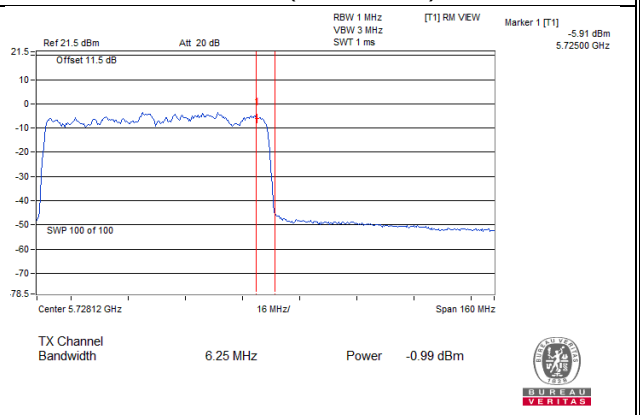
CH 142 (For U-NII-2C)	CH 142 (For U-NII-3)
	
TX Channel Bandwidth 35.54 MHz Power 11.76 dBm	TX Channel Bandwidth 5.59 MHz Power 2.93 dBm

Chain 1

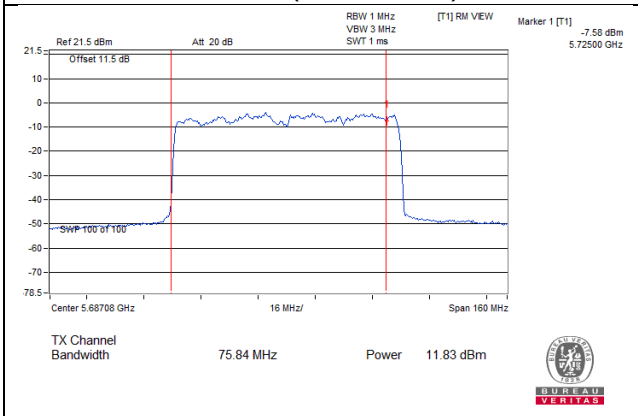
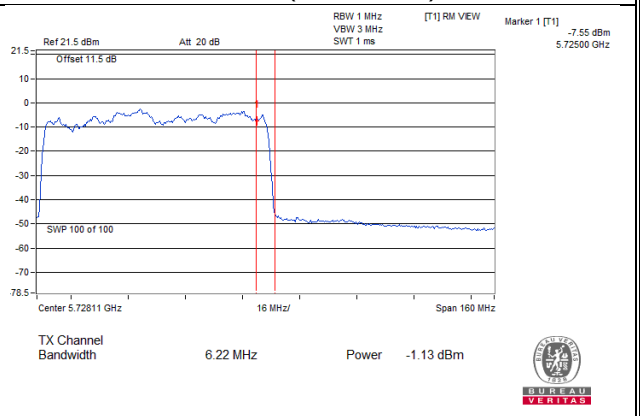
CH 142 (For U-NII-2C)	CH 142 (For U-NII-3)
	
TX Channel Bandwidth 35.59 MHz Power 11.53 dBm	TX Channel Bandwidth 5.6 MHz Power 3.78 dBm

802.11ax (HE80)

Chain 0

CH 138 (For U-NII-2C)	CH 138 (For U-NII-3)
	
TX Channel Bandwidth 75.84 MHz Power 11.93 dBm	TX Channel Bandwidth 6.25 MHz Power -0.99 dBm

Chain 1

CH 138 (For U-NII-2C)	CH 138 (For U-NII-3)
	
TX Channel Bandwidth 75.84 MHz Power 11.83 dBm	TX Channel Bandwidth 6.22 MHz Power -1.13 dBm

5G traffic radio (Radio 2)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	10.84	10.82	24.212	13.84	19.46	Pass
60	5300	10.36	10.33	21.654	13.36	19.46	Pass
64	5320	10.25	10.26	21.209	13.27	19.46	Pass
100	5500	12.31	12.44	34.56	15.39	19.46	Pass
116	5580	11.46	11.25	27.331	14.37	19.46	Pass
140	5700	11.23	11.38	27.014	14.32	19.46	Pass
144	5720 (U-NII-2C)	10.26	10.98	24.7	13.93	18.44	Pass
144	5720 (U-NII-3)	3.63	3.03	4.605	6.63	25.46	Pass

Note:

1. 5260-5700MHz: Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5720MHz: Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 22.98-(10.54-6) = 18.44dBm.
3. 5720 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0

1. 11 dBm + 10log (21.44) = 24.31 dBm > 24 dBm.
2. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
3. 11 dBm + 10log (21.68) = 24.36 dBm > 24 dBm.
4. 11 dBm + 10log (21.75) = 24.37 dBm > 24 dBm.
5. 11 dBm + 10log (21.66) = 24.35 dBm > 24 dBm.
6. 11 dBm + 10log (21.76) = 24.37 dBm > 24 dBm.
7. 11 dBm + 10log (15.79) = 22.98 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.41) = 24.30 dBm > 24 dBm.
2. 11 dBm + 10log (21.73) = 24.37 dBm > 24 dBm.
3. 11 dBm + 10log (21.65) = 24.35 dBm > 24 dBm.
4. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
5. 11 dBm + 10log (21.75) = 24.37 dBm > 24 dBm.
6. 11 dBm + 10log (21.75) = 24.37 dBm > 24 dBm.
7. 11 dBm + 10log (15.78) = 22.98 dBm < 24 dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.33	11.19	26.735	14.27	19.46	Pass
60	5300	11.34	11.22	26.858	14.29	19.46	Pass
64	5320	11.19	11.08	25.976	14.15	19.46	Pass
100	5500	12.05	12.11	32.288	15.09	19.46	Pass
116	5580	12.09	12.00	32.03	15.06	19.46	Pass
140	5700	11.83	11.02	27.888	14.45	19.46	Pass
144	5720 (U-NII-2C)	11.13	11.79	28.89	14.61	18.48	Pass
144	5720 (U-NII-3)	5.53	5.12	7.022	8.46	25.46	Pass

Note:
1. 5260-5320MHz & 5500-5700MHz: Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5720 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 23.02-(10.54-6) = 18.48dBm.
3. 5720 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0
1. 11 dBm + 10log (21.83) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.97) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.95) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.80) = 24.38 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.96) = 24.41 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.98) = 23.03 dBm < 24 dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	14.53	14.59	57.153	17.57	19.46	Pass
62	5310	14.65	14.49	57.293	17.58	19.46	Pass
102	5510	13.90	14.67	53.856	17.31	19.46	Pass
110	5550	14.22	14.00	51.543	17.12	19.46	Pass
134	5670	14.27	14.23	53.215	17.26	19.46	Pass
142	5710 (U-NII-2C)	13.20	13.29	44.345	16.47	19.46	Pass
142	5710 (U-NII-3)	2.22	2.43	3.589	5.55	25.46	Pass

Note:
1. 5270-5310MHz & 5510-5670MHz & 5710 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5710 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

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Chain 0
1. 11 dBm + 10log (41.31) = 27.16 dBm > 24 dBm.
2. 11 dBm + 10log (41.25) = 27.15 dBm > 24 dBm.
3. 11 dBm + 10log (41.46) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.64) = 26.51 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.35) = 27.16 dBm > 24 dBm.
3. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.62) = 26.51 dBm > 24 dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.43	11.29	27.358	14.37	19.46	Pass
60	5300	11.43	11.27	27.296	14.36	19.46	Pass
64	5320	11.22	11.17	26.335	14.21	19.46	Pass
100	5500	12.09	12.18	32.7	15.15	19.46	Pass
116	5580	12.19	12.03	32.516	15.12	19.46	Pass
140	5700	11.88	11.04	28.123	14.49	19.46	Pass
144	5720 (U-NII-2C)	11.17	11.74	28.836	14.60	18.48	Pass
144	5720 (U-NII-3)	5.57	5.17	7.095	8.51	25.46	Pass

Note:
1. 5260-5320MHz & 5500-5700MHz: Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5720 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 23.02-(10.54-6) = 18.48dBm.
3. 5720 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0
1. 11 dBm + 10log (21.83) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.97) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.95) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.80) = 24.38 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.96) = 24.41 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.98) = 23.03 dBm < 24 dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	14.59	14.51	57.023	17.56	19.46	Pass
62	5310	14.68	14.55	57.887	17.63	19.46	Pass
102	5510	13.96	14.68	54.265	17.35	19.46	Pass
110	5550	14.30	14.04	52.267	17.18	19.46	Pass
134	5670	14.29	14.32	53.893	17.32	19.46	Pass
142	5710 (U-NII-2C)	13.27	13.38	45.171	16.55	19.46	Pass
142	5710 (U-NII-3)	2.29	2.52	3.656	5.63	25.46	Pass

Note:
1. 5270-5310MHz & 5510-5670MHz & 5710 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5710 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

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Chain 0
1. 11 dBm + 10log (41.31) = 27.16 dBm > 24 dBm.
2. 11 dBm + 10log (41.25) = 27.15 dBm > 24 dBm.
3. 11 dBm + 10log (41.46) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.64) = 26.51 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.35) = 27.16 dBm > 24 dBm.
3. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.62) = 26.51 dBm > 24 dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	15.39	14.99	66.144	18.20	19.46	Pass
106	5530	15.12	14.42	60.178	17.79	19.46	Pass
122	5610	16.50	16.07	85.126	19.30	19.46	Pass
138	5690 (U-NII-2C)	15.75	15.49	80.496	19.06	19.46	Pass
138	5690 (U-NII-3)	-0.70	-0.92	1.8311	2.63	25.46	Pass

Note:
1. 5290 MHZ & 5530-5610MHz & 5690 (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5690 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0
1. 11 dBm + 10log (82.00) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.27) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.36) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.75) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (81.89) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.48) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (82.53) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.86) = 29.80 dBm > 24 dBm.

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	11.49	11.35	27.739	14.43	19.46	Pass
60	5300	11.48	11.36	27.738	14.43	19.46	Pass
64	5320	11.31	11.22	26.764	14.28	19.46	Pass
100	5500	12.19	12.23	33.269	15.22	19.46	Pass
116	5580	12.24	12.11	33.005	15.19	19.46	Pass
140	5700	11.97	11.14	28.742	14.59	19.46	Pass
144	5720 (U-NII-2C)	11.27	11.82	29.435	14.69	18.48	Pass
144	5720 (U-NII-3)	5.67	5.25	7.244	8.60	25.46	Pass

Note:
1. 5260-5320MHz & 5500-5700MHz: Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5720 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 23.02-(10.54-6) = 18.48dBm.
3. 5720 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0
1. 11 dBm + 10log (21.83) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.97) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.95) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.80) = 24.38 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.96) = 24.41 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.98) = 23.03 dBm < 24 dBm.

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	14.69	14.55	57.954	17.63	19.46	Pass
62	5310	14.77	14.61	58.898	17.70	19.46	Pass
102	5510	14.04	14.78	55.412	17.44	19.46	Pass
110	5550	14.36	14.13	53.172	17.26	19.46	Pass
134	5670	14.39	14.38	54.895	17.40	19.46	Pass
142	5710 (U-NII-2C)	13.33	13.44	45.799	16.61	19.46	Pass
142	5710 (U-NII-3)	2.35	2.58	3.707	5.69	25.46	Pass

Note:
1. 5270-5310MHz & 5510-5670MHz & 5710 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5710 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0
1. 11 dBm + 10log (41.31) = 27.16 dBm > 24 dBm.
2. 11 dBm + 10log (41.25) = 27.15 dBm > 24 dBm.
3. 11 dBm + 10log (41.46) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.64) = 26.51 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.35) = 27.16 dBm > 24 dBm.
3. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.62) = 26.51 dBm > 24 dBm.

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	15.48	15.08	67.529	18.29	19.46	Pass
106	5530	15.22	14.52	61.58	17.89	19.46	Pass
122	5610	16.58	16.15	86.709	19.38	19.46	Pass
138	5690 (U-NII-2C)	15.85	15.55	82.005	19.14	19.46	Pass
138	5690 (U-NII-3)	-0.60	-0.86	1.8654	2.71	25.46	Pass

Note:
1. 5290 MHZ & 5530-5610MHz & 5690 MHz (U-NII-2C): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 24-(10.54-6) = 19.46dBm.
2. 5690 MHz (U-NII-3): Max. Gain = 10.54dBi > 6dBi, so the power limit shall be reduced to 30-(10.54-6) = 25.46dBm.

Chain 0
1. 11 dBm + 10log (82.00) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.27) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.36) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.75) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (81.89) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.48) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (82.53) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.86) = 29.80 dBm > 24 dBm.

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	8.42	8.28	13.68	11.36	16.57	Pass
60	5300	8.42	8.26	13.649	11.35	16.57	Pass
64	5320	8.21	8.16	13.169	11.20	16.57	Pass
100	5500	9.08	9.17	16.351	12.14	16.57	Pass
116	5580	9.18	9.02	16.259	12.11	16.57	Pass
140	5700	8.87	8.03	14.062	11.48	16.57	Pass
144	5720 (U-NII-2C)	8.16	8.63	14.244	11.54	15.59	Pass
144	5720 (U-NII-3)	2.56	2.16	3.548	5.50	22.57	Pass

Note:

1. 5260-5320MHz & 5500-5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 24 - (13.43 - 6) = 16.57dBm.
2. 5720 MHz (U-NII-2C): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 23.02 - (13.43 - 6) = 15.59dBm.
3. 5720 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.55dBi > 6dBi, so the power limit shall be reduced to 30 - (13.43 - 6) = 22.57dBm.

Chain 0

1. 11 dBm + 10log (21.83) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.97) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.95) = 23.02 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.80) = 24.38 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.96) = 24.41 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.98) = 23.03 dBm < 24 dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	11.58	11.50	28.513	14.55	16.57	Pass
62	5310	11.67	11.54	28.945	14.62	16.57	Pass
102	5510	10.95	11.67	27.134	14.34	16.57	Pass
110	5550	11.29	11.03	26.135	14.17	16.57	Pass
134	5670	11.28	11.31	26.948	14.31	16.57	Pass
142	5710 (U-NII-2C)	10.26	10.37	22.587	13.54	16.57	Pass
142	5710 (U-NII-3)	-0.72	-0.49	1.828	2.62	22.57	Pass

Note:

1. 5270-5310MHz & 5510-5670MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 24 - (13.43 - 6) = 16.57dBm.
2. 5710 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 30 - (13.43 - 6) = 22.57dBm.

Chain 0

1. 11 dBm + 10log (41.31) = 27.16 dBm > 24 dBm.
2. 11 dBm + 10log (41.25) = 27.15 dBm > 24 dBm.
3. 11 dBm + 10log (41.46) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.64) = 26.51 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.35) = 27.16 dBm > 24 dBm.
3. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.62) = 26.51 dBm > 24 dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	12.38	11.98	33.074	15.19	16.57	Pass
106	5530	12.11	11.41	30.091	14.78	16.57	Pass
122	5610	13.49	13.06	42.566	16.29	16.57	Pass
138	5690 (U-NII-2C)	12.74	12.48	40.251	16.05	16.57	Pass
138	5690 (U-NII-3)	-3.71	-3.93	0.9156	-0.38	22.57	Pass

Note:
1. 5290MHz & 5530-5610MHz & 5690 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 24 - (13.43 - 6) = 16.57dBm.
2. 5690 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.55dBi > 6dBi, so the power limit shall be reduced to 30 - (13.43 - 6) = 22.57dBm.

Chain 0
1. 11 dBm + 10log (82.00) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.27) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.36) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.75) = 29.79 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (81.89) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.48) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (82.53) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.86) = 29.80 dBm > 24 dBm.

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	8.48	8.34	13.87	11.42	16.57	Pass
60	5300	8.47	8.35	13.87	11.42	16.57	Pass
64	5320	8.30	8.21	13.383	11.27	16.57	Pass
100	5500	9.18	9.22	16.635	12.21	16.57	Pass
116	5580	9.23	9.10	16.504	12.18	16.57	Pass
140	5700	8.96	8.13	14.372	11.58	16.57	Pass
144	5720 (U-NII-2C)	8.26	8.81	14.718	11.68	15.59	Pass
144	5720 (U-NII-3)	2.66	2.24	3.622	5.59	22.57	Pass

Note:
1. 5260-5320MHz & 5500-5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 24 - (13.43 - 6) = 16.57dBm.
2. 5720 MHz (U-NII-2C): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 23.02 - (13.43 - 6) = 15.59dBm.
3. 5720 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 30 - (13.43 - 6) = 22.57dBm.

Chain 0
1. 11 dBm + 10log (21.83) = 24.39 dBm > 24 dBm.
2. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.97) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.95) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.80) = 24.38 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
5. 11 dBm + 10log (21.96) = 24.41 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.98) = 23.03 dBm < 24 dBm.

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	11.68	11.54	28.979	14.62	16.57	Pass
62	5310	11.76	11.60	29.451	14.69	16.57	Pass
102	5510	11.03	11.77	27.708	14.43	16.57	Pass
110	5550	11.35	11.12	26.588	14.25	16.57	Pass
134	5670	11.38	11.37	27.449	14.39	16.57	Pass
142	5710 (U-NII-2C)	10.32	10.43	22.901	13.60	16.57	Pass
142	5710 (U-NII-3)	0.66	0.43	2.382	3.77	22.57	Pass

Note:
1. 5270-5310MHz & 5510-5670MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 24 - (13.43 - 6) = 16.57dBm.
2. 5710 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 30 - (13.43 - 6) = 22.57dBm.

Chain 0
1. 11 dBm + 10log (41.31) = 27.16 dBm > 24 dBm.
2. 11 dBm + 10log (41.25) = 27.15 dBm > 24 dBm.
3. 11 dBm + 10log (41.46) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.64) = 26.51 dBm > 24 dBm.

Chain 1
1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.35) = 27.16 dBm > 24 dBm.
3. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.45) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.43) = 27.17 dBm > 24 dBm.
6. 11 dBm + 10log (35.62) = 26.51 dBm > 24 dBm.

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	12.47	12.07	33.767	15.28	16.57	Pass
106	5530	12.21	11.51	30.792	14.88	16.57	Pass
122	5610	13.57	13.14	43.357	16.37	16.57	Pass
138	5690 (U-NII-2C)	12.84	12.54	41.005	16.13	16.57	Pass
138	5690 (U-NII-3)	-3.61	-3.87	0.9328	-0.30	22.57	Pass

Note:

1. 5290 MHZ & 5530-5610MHz & 5690 (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 24 - (13.43 - 6) = 16.57dBm.
2. 5690 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power limit shall be reduced to 30 - (13.43 - 6) = 22.57dBm.

Chain 0

1. 11 dBm + 10log (82.00) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.27) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.36) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.75) = 29.79 dBm > 24 dBm.

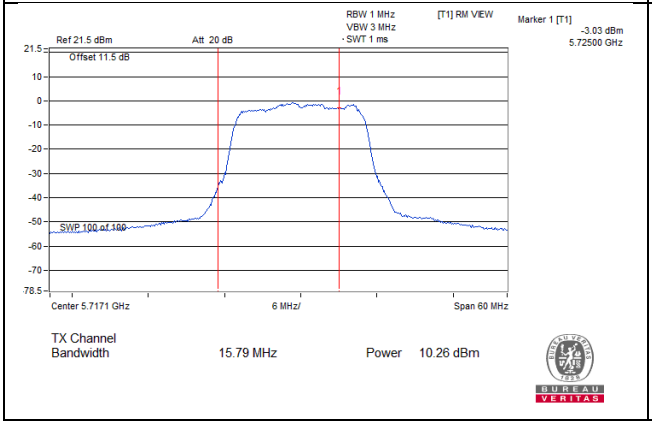
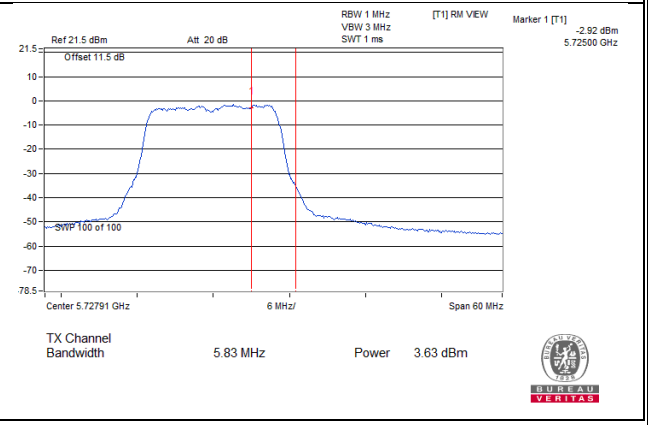
Chain 1

1. 11 dBm + 10log (81.89) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.48) = 30.16 dBm > 24 dBm.
3. 11 dBm + 10log (82.53) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.86) = 29.80 dBm > 24 dBm.

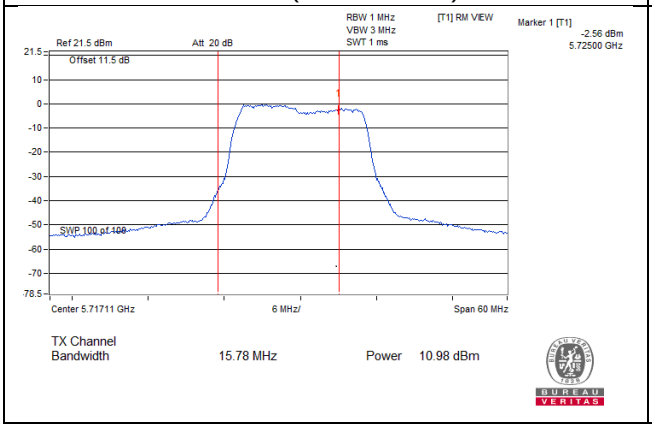
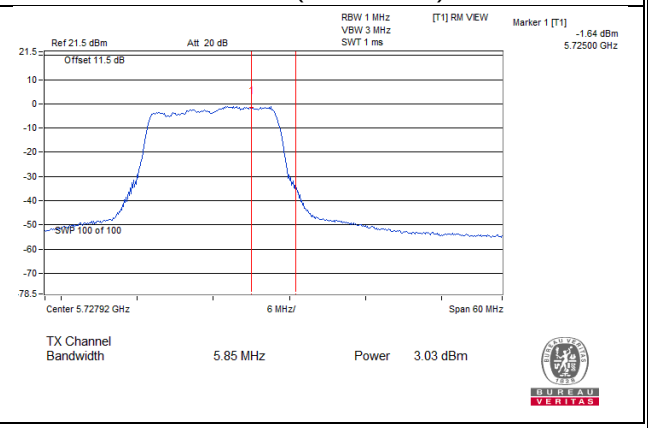
Straddle channel power plots:

802.11a

Chain 0

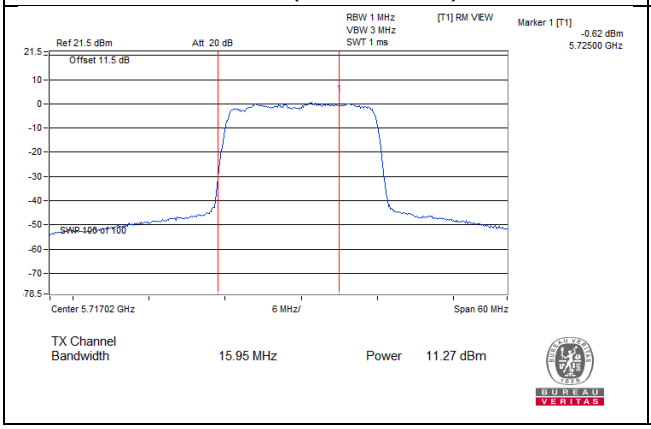
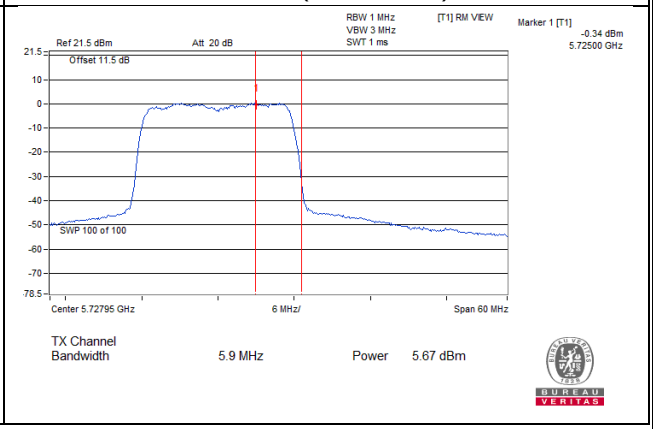
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	

Chain 1

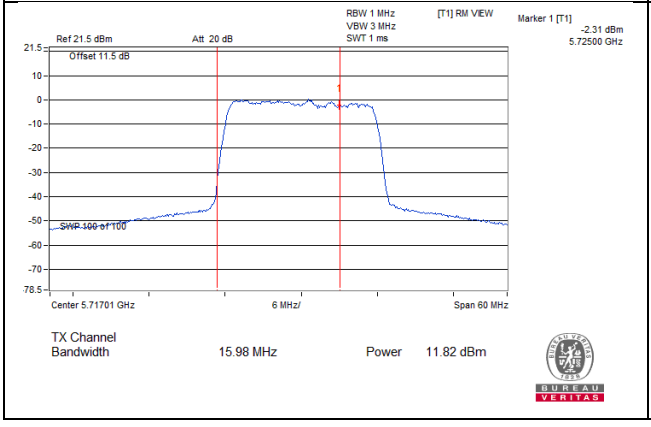
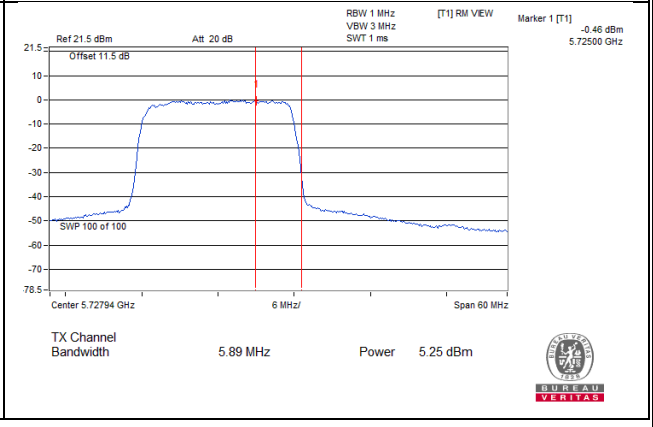
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	

802.11ax (HE20)

Chain 0

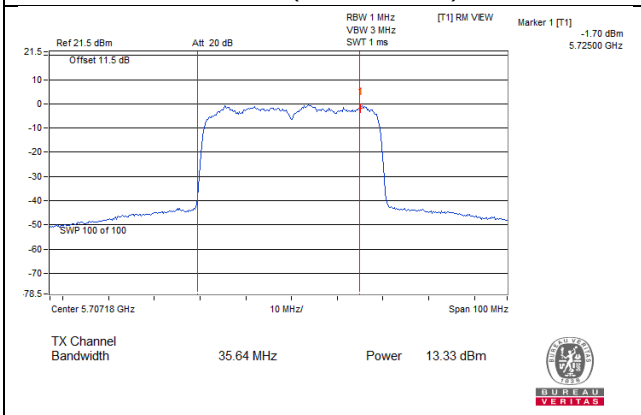
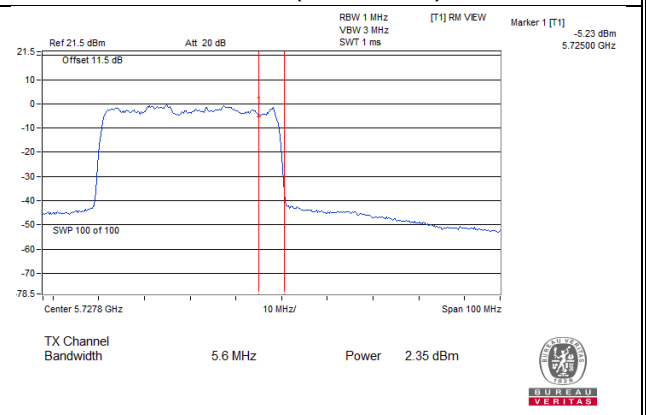
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	

Chain 1

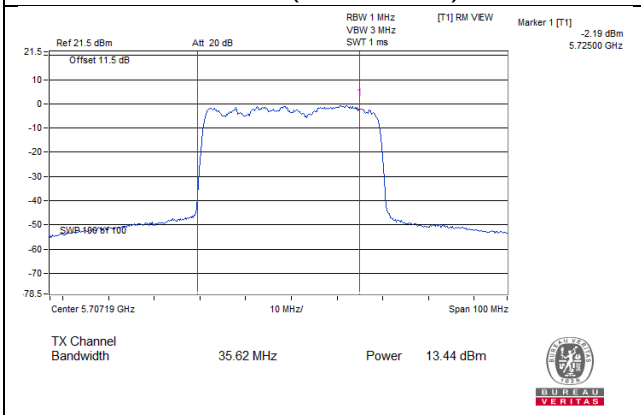
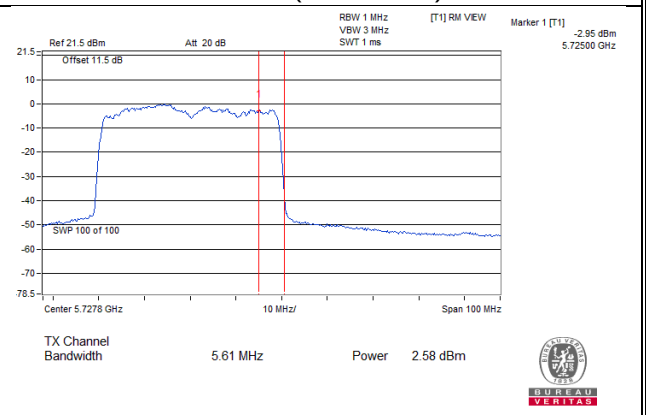
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	

802.11ax (HE40)

Chain 0

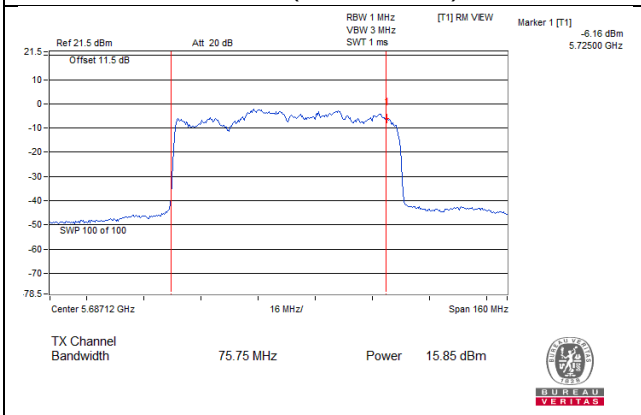
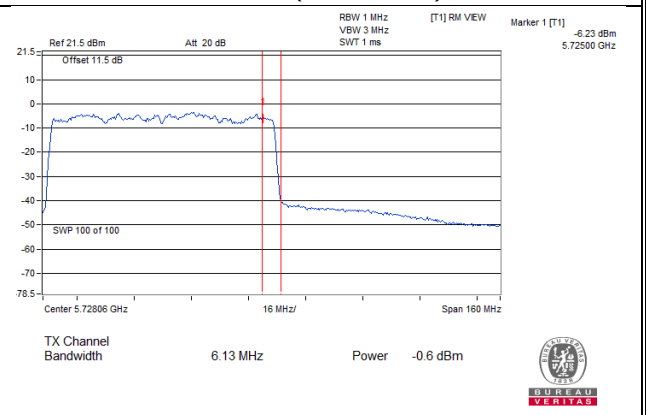
CH 142 (For U-NII-2C)	CH 142 (For U-NII-3)
	
TX Channel Bandwidth 35.64 MHz Power 13.33 dBm	TX Channel Bandwidth 5.6 MHz Power 2.35 dBm

Chain 1

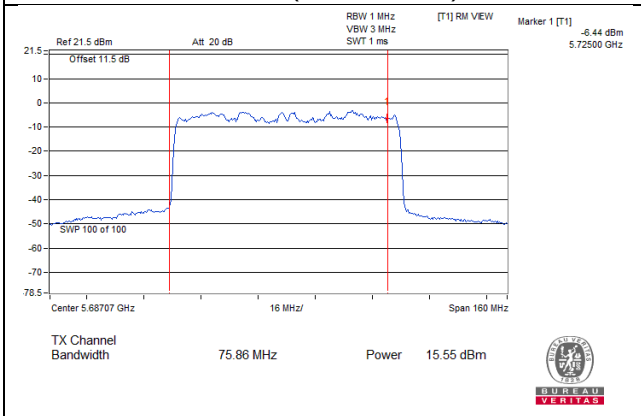
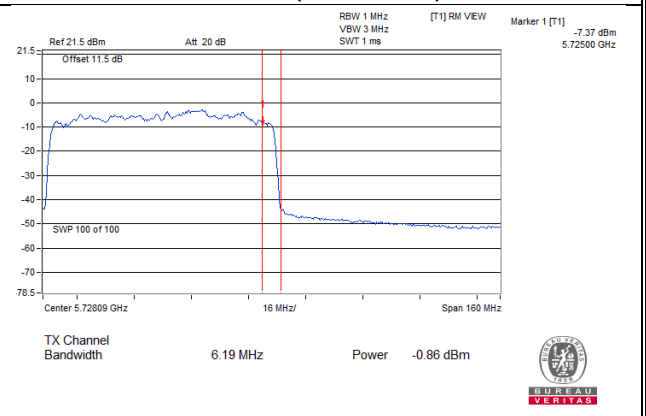
CH 142 (For U-NII-2C)	CH 142 (For U-NII-3)
	
TX Channel Bandwidth 35.62 MHz Power 13.44 dBm	TX Channel Bandwidth 5.61 MHz Power 2.58 dBm

802.11ax (HE80)

Chain 0

CH 138 (For U-NII-2C)	CH 138 (For U-NII-3)
	
TX Channel Bandwidth 75.75 MHz Power 15.85 dBm	TX Channel Bandwidth 6.13 MHz Power -0.6 dBm

Chain 1

CH 138 (For U-NII-2C)	CH 138 (For U-NII-3)
	
TX Channel Bandwidth 75.86 MHz Power 15.55 dBm	TX Channel Bandwidth 6.19 MHz Power -0.86 dBm

5G traffic radio (Radio 3)

CDD Mode

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	16.32	15.93	82.029	19.14	24	Pass
60	5300	16.51	16.15	85.981	19.34	24	Pass
64	5320	16.37	16.67	89.803	19.53	24	Pass
100	5500	17.11	16.98	101.293	20.06	24	Pass
116	5580	16.71	16.47	91.242	19.60	24	Pass
140	5700	15.22	15.86	71.814	18.56	24	Pass
144	5720 (U-NII-2C)	16.07	16.44	90.896	19.59	22.98	Pass
144	5720 (U-NII-3)	4.47	4.49	6.035	7.81	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (21.60) = 24.34 dBm > 24 dBm.
2. 11 dBm + 10log (21.81) = 24.38 dBm > 24 dBm.
3. 11 dBm + 10log (21.82) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.82) = 24.38 dBm > 24 dBm.
6. 11 dBm + 10log (21.78) = 24.38 dBm > 24 dBm.
7. 11 dBm + 10log (15.78) = 22.98 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.70) = 24.36 dBm > 24 dBm.
2. 11 dBm + 10log (21.82) = 24.38 dBm > 24 dBm.
3. 11 dBm + 10log (21.72) = 24.36 dBm > 24 dBm.
4. 11 dBm + 10log (21.82) = 24.38 dBm > 24 dBm.
5. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
6. 11 dBm + 10log (21.82) = 24.38 dBm > 24 dBm.
7. 11 dBm + 10log (15.83) = 22.99 dBm < 24 dBm.

802.11n (HT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	16.66	16.43	90.299	19.56	24	Pass
60	5300	16.83	16.39	91.746	19.63	24	Pass
64	5320	16.81	16.43	91.928	19.63	24	Pass
100	5500	15.94	16.56	84.554	19.27	24	Pass
116	5580	16.70	16.39	90.325	19.56	24	Pass
140	5700	14.84	15.01	62.175	17.94	24	Pass
144	5720 (U-NII-2C)	15.28	15.07	68.198	18.34	23.01	Pass
144	5720 (U-NII-3)	10.44	9.85	21.461	13.32	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.78) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.93) = 23.02 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.92) = 24.40 dBm > 24 dBm.
2. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
3. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
4. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.89) = 23.01 dBm < 24 dBm.

802.11n (HT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	20.07	20.04	202.55	23.07	24	Pass
62	5310	16.52	16.28	87.336	19.41	24	Pass
102	5510	16.47	15.92	83.445	19.21	24	Pass
110	5550	19.19	19.04	163.153	22.13	24	Pass
134	5670	16.88	16.53	93.731	19.72	24	Pass
142	5710 (U-NII-2C)	19.91	19.36	192.299	22.84	24	Pass
142	5710 (U-NII-3)	7.47	7.74	12.031	10.80	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.51) = 27.18 dBm > 24 dBm.
6. 11 dBm + 10log (38.71) = 26.87 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.42) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.34) = 27.16 dBm > 24 dBm.
4. 11 dBm + 10log (41.37) = 27.16 dBm > 24 dBm.
5. 11 dBm + 10log (41.39) = 27.16 dBm > 24 dBm.
6. 11 dBm + 10log (36.50) = 26.62 dBm > 24 dBm.

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	16.72	16.49	91.555	19.62	24	Pass
60	5300	16.88	16.45	92.91	19.68	24	Pass
64	5320	16.88	16.51	93.524	19.71	24	Pass
100	5500	15.98	16.60	85.337	19.31	24	Pass
116	5580	16.73	16.43	91.052	19.59	24	Pass
140	5700	14.88	15.09	63.046	18.00	24	Pass
144	5720 (U-NII-2C)	15.34	15.13	69.147	18.40	23.01	Pass
144	5720 (U-NII-3)	10.50	9.91	21.759	13.38	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.78) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.93) = 23.02 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (21.92) = 24.40 dBm > 24 dBm.
2. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
3. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
4. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.89) = 23.01 dBm > 24 dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	20.12	20.09	204.896	23.12	24	Pass
62	5310	16.56	16.37	88.641	19.48	24	Pass
102	5510	16.51	15.96	84.217	19.25	24	Pass
110	5550	19.26	19.08	165.243	22.18	24	Pass
134	5670	16.96	16.61	95.473	19.80	24	Pass
142	5710 (U-NII-2C)	19.95	19.41	194.288	22.88	24	Pass
142	5710 (U-NII-3)	7.51	7.79	12.157	10.85	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.51) = 27.18 dBm > 24 dBm.
6. 11 dBm + 10log (38.71) = 26.87 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.42) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.34) = 27.16 dBm > 24 dBm.
4. 11 dBm + 10log (41.37) = 27.16 dBm > 24 dBm.
5. 11 dBm + 10log (41.39) = 27.16 dBm > 24 dBm.
6. 11 dBm + 10log (36.50) = 26.62 dBm > 24 dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	15.92	15.85	77.543	18.90	24	Pass
106	5530	16.86	16.78	96.172	19.83	24	Pass
122	5610	17.84	18.09	125.23	20.98	24	Pass
138	5690 (U-NII-2C)	19.91	19.03	196.115	22.93	24	Pass
138	5690 (U-NII-3)	2.16	2.22	3.65	5.62	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (81.90) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.82) = 29.79 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (81.57) = 30.11 dBm > 24 dBm.
2. 11 dBm + 10log (82.23) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.44) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.85) = 29.80 dBm > 24 dBm.

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	16.78	16.55	92.829	19.68	24	Pass
60	5300	16.95	16.53	94.523	19.76	24	Pass
64	5320	16.93	16.58	94.816	19.77	24	Pass
100	5500	16.08	16.68	87.109	19.40	24	Pass
116	5580	16.82	16.52	92.958	19.68	24	Pass
140	5700	14.95	15.16	64.07	18.07	24	Pass
144	5720 (U-NII-2C)	15.40	15.22	70.346	18.47	23.01	Pass
144	5720 (U-NII-3)	10.56	10.00	22.133	13.45	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (27.74) = 25.43 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.78) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.93) = 23.02 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.55) = 24.33 dBm > 24 dBm.
2. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
3. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
4. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.89) = 23.01 dBm < 24 dBm.

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	20.22	20.19	209.668	23.22	24	Pass
62	5310	16.65	16.42	90.091	19.55	24	Pass
102	5510	16.59	16.03	85.69	19.33	24	Pass
110	5550	19.32	19.17	168.11	22.26	24	Pass
134	5670	19.51	7.89	95.482	19.80	24	Pass
142	5710 (U-NII-2C)	19.55	19.51	187.332	22.73	24	Pass
142	5710 (U-NII-3)	7.61	7.89	12.44	10.95	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.51) = 27.18 dBm > 24 dBm.
6. 11 dBm + 10log (38.71) = 26.87 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.42) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.34) = 27.16 dBm > 24 dBm.
4. 11 dBm + 10log (41.37) = 27.16 dBm > 24 dBm.
5. 11 dBm + 10log (41.39) = 27.16 dBm > 24 dBm.
6. 11 dBm + 10log (36.50) = 26.62 dBm > 24 dBm.

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	15.99	15.92	78.803	18.97	24	Pass
106	5530	16.92	16.85	97.621	19.90	24	Pass
122	5610	17.94	18.16	127.694	21.06	24	Pass
138	5690 (U-NII-2C)	19.99	19.13	200.176	23.01	24	Pass
138	5690 (U-NII-3)	2.24	2.32	3.727	5.71	30	Pass

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. 11 dBm + 10log (81.90) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.82) = 29.79 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (81.57) = 30.11 dBm > 24 dBm.
2. 11 dBm + 10log (82.23) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.44) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.85) = 29.80 dBm > 24 dBm.

Beamforming Mode

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	13.71	13.48	45.781	16.61	22.25	Pass
60	5300	13.84	13.42	46.189	16.65	22.25	Pass
64	5320	13.85	13.50	46.653	16.69	22.25	Pass
100	5500	12.99	13.57	42.658	16.30	22.25	Pass
116	5580	13.73	13.45	45.736	16.60	22.25	Pass
140	5700	11.85	12.06	31.38	14.97	22.25	Pass
144	5720 (U-NII-2C)	12.30	12.14	34.532	15.38	21.26	Pass
144	5720 (U-NII-3)	7.46	6.92	10.864	10.36	28.25	Pass

Note:

1. 5260-5320MHz & 5500-5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 24 - (7.75 - 6) = 22.25dBm.
2. 5720 MHz (U-NII-2C): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.92dBi > 6dBi, so the power limit shall be reduced to 23.01 - (7.75 - 6) = 21.26dBm.
3. 5720 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.92dBi > 6dBi, so the power limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.

Chain 0

1. 11 dBm + 10log (27.74) = 25.43 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.78) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.93) = 23.02 dBm < 24 dBm.

Chain 1

1. 11 dBm + 10log (21.55) = 24.33 dBm > 24 dBm.
2. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
3. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
4. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.89) = 23.01 dBm < 24 dBm.

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	17.11	17.08	102.455	20.11	22.25	Pass
62	5310	13.57	13.33	44.279	16.46	22.25	Pass
102	5510	13.52	12.97	42.306	16.26	22.25	Pass
110	5550	16.23	16.10	82.714	19.18	22.25	Pass
134	5670	13.96	13.57	47.64	16.78	22.25	Pass
142	5710 (U-NII-2C)	16.95	16.42	97.48	19.89	22.25	Pass
142	5710 (U-NII-3)	4.51	4.80	6.1	7.85	28.25	Pass

Note:

1. 5270-5310MHz & 5510-5700MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 24 - (7.75 - 6) = 22.25dBm.
2. 5710 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.

Chain 0

1. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.51) = 27.18 dBm > 24 dBm.
6. 11 dBm + 10log (38.71) = 26.87 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.42) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.34) = 27.16 dBm > 24 dBm.
4. 11 dBm + 10log (41.37) = 27.16 dBm > 24 dBm.
5. 11 dBm + 10log (41.39) = 27.16 dBm > 24 dBm.
6. 11 dBm + 10log (36.50) = 26.62 dBm > 24 dBm.

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	12.91	12.84	38.774	15.89	22.25	Pass
106	5530	13.82	13.76	47.867	16.80	22.25	Pass
122	5610	14.84	15.09	62.764	17.98	22.25	Pass
138	5690 (U-NII-2C)	16.89	16.06	98.348	19.93	22.25	Pass
138	5690 (U-NII-3)	-0.86	-0.75	1.8316	2.63	28.25	Pass

Note:

1. 5290MHz & 5530-5610MHz & 5690 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 24 - (7.75 - 6) = 22.25dBm.
2. 5690 (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.92dBi > 6dBi, so the power limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.

Chain 0

1. 11 dBm + 10log (81.90) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.82) = 29.79 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (81.57) = 30.11 dBm > 24 dBm.
2. 11 dBm + 10log (82.23) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.44) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.85) = 29.80 dBm > 24 dBm.

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	13.77	13.54	46.418	16.67	22.25	Pass
60	5300	13.94	13.52	47.265	16.75	22.25	Pass
64	5320	13.92	13.57	47.411	16.76	22.25	Pass
100	5500	13.07	13.67	43.558	16.39	22.25	Pass
116	5580	13.81	13.51	46.482	16.67	22.25	Pass
140	5700	11.94	12.15	32.037	15.06	22.25	Pass
144	5720 (U-NII-2C)	12.39	12.21	35.176	15.46	21.26	Pass
144	5720 (U-NII-3)	7.55	6.99	11.067	10.44	28.25	Pass

Note:
1. 5260-5320MHz & 5500-5700MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 24 - (7.75 - 6) = 22.25dBm.
2. 5720 MHz (U-NII-2C): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 23.01 - (7.75 - 6) = 21.26dBm.
3. 5720 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.

Chain 0
1. 11 dBm + 10log (27.74) = 25.43 dBm > 24 dBm.
2. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
3. 11 dBm + 10log (21.78) = 24.38 dBm > 24 dBm.
4. 11 dBm + 10log (21.87) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.90) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.93) = 24.41 dBm > 24 dBm.
7. 11 dBm + 10log (15.93) = 23.02 dBm < 24 dBm.

Chain 1
1. 11 dBm + 10log (21.55) = 24.33 dBm > 24 dBm.
2. 11 dBm + 10log (21.95) = 24.41 dBm > 24 dBm.
3. 11 dBm + 10log (21.89) = 24.40 dBm > 24 dBm.
4. 11 dBm + 10log (21.84) = 24.39 dBm > 24 dBm.
5. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
6. 11 dBm + 10log (21.91) = 24.40 dBm > 24 dBm.
7. 11 dBm + 10log (15.89) = 23.01 dBm < 24 dBm.

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	17.21	17.18	104.841	20.21	22.25	Pass
62	5310	13.64	13.41	45.049	16.54	22.25	Pass
102	5510	13.58	13.02	42.848	16.32	22.25	Pass
110	5550	16.31	16.16	84.061	19.25	22.25	Pass
134	5670	14.02	13.67	48.516	16.86	22.25	Pass
142	5710 (U-NII-2C)	16.54	16.50	93.672	19.72	22.25	Pass
142	5710 (U-NII-3)	4.60	4.88	6.221	7.94	28.25	Pass

Note:

1. 5270-5310MHz & 5510-5700MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 24 - (7.75 - 6) = 22.25dBm.
2. 5710 MHz (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.

Chain 0

1. 11 dBm + 10log (41.44) = 27.17 dBm > 24 dBm.
2. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
4. 11 dBm + 10log (41.41) = 27.17 dBm > 24 dBm.
5. 11 dBm + 10log (41.51) = 27.18 dBm > 24 dBm.
6. 11 dBm + 10log (38.71) = 26.87 dBm > 24 dBm.

Chain 1

1. 11 dBm + 10log (41.08) = 27.13 dBm > 24 dBm.
2. 11 dBm + 10log (41.42) = 27.17 dBm > 24 dBm.
3. 11 dBm + 10log (41.34) = 27.16 dBm > 24 dBm.
4. 11 dBm + 10log (41.37) = 27.16 dBm > 24 dBm.
5. 11 dBm + 10log (41.39) = 27.16 dBm > 24 dBm.
6. 11 dBm + 10log (36.50) = 26.62 dBm > 24 dBm.

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
58	5290	12.98	12.91	39.404	15.96	22.25	Pass
106	5530	13.91	13.84	48.814	16.89	22.25	Pass
122	5610	14.93	15.15	63.851	18.05	22.25	Pass
138	5690 (U-NII-2C)	16.98	16.12	100.095	20.00	22.25	Pass
138	5690 (U-NII-3)	-0.77	-0.69	1.8634	2.70	28.25	Pass

Note:

1. 5290MHz & 5530-5610MHz & 5690 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 24 - (7.75 - 6) = 22.25dBm.
2. 5690 (U-NII-3): Directional gain = Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.

Chain 0

1. 11 dBm + 10log (81.90) = 30.13 dBm > 24 dBm.
2. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.35) = 30.15 dBm > 24 dBm.
4. 11 dBm + 10log (75.82) = 29.79 dBm > 24 dBm.

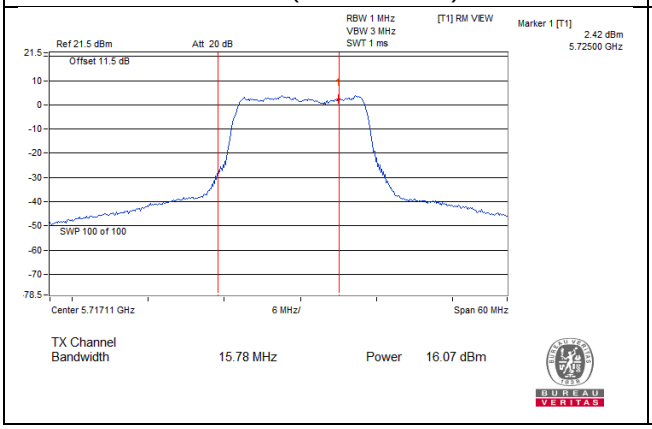
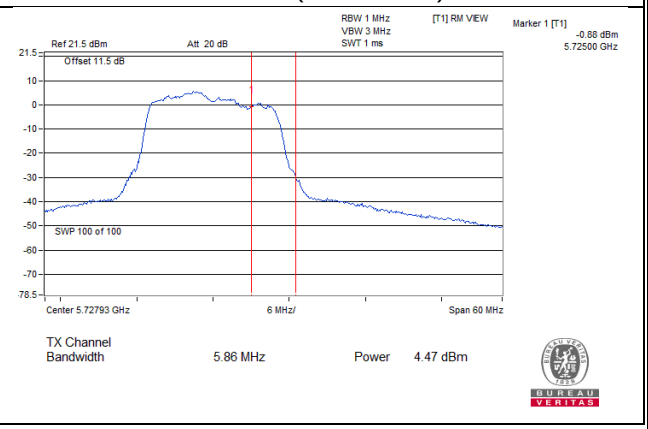
Chain 1

1. 11 dBm + 10log (81.57) = 30.11 dBm > 24 dBm.
2. 11 dBm + 10log (82.23) = 30.15 dBm > 24 dBm.
3. 11 dBm + 10log (82.44) = 30.16 dBm > 24 dBm.
4. 11 dBm + 10log (75.85) = 29.80 dBm > 24 dBm.

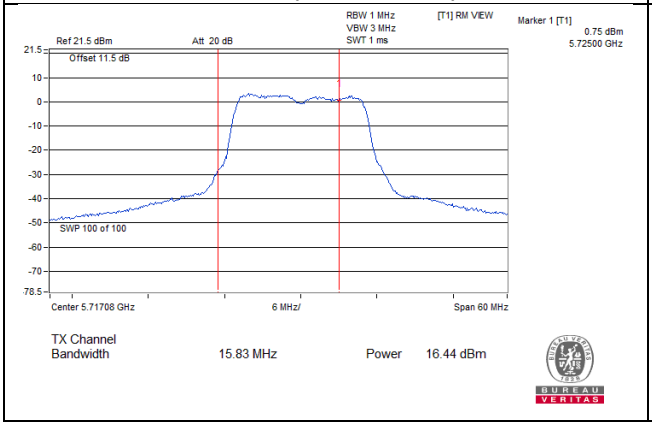
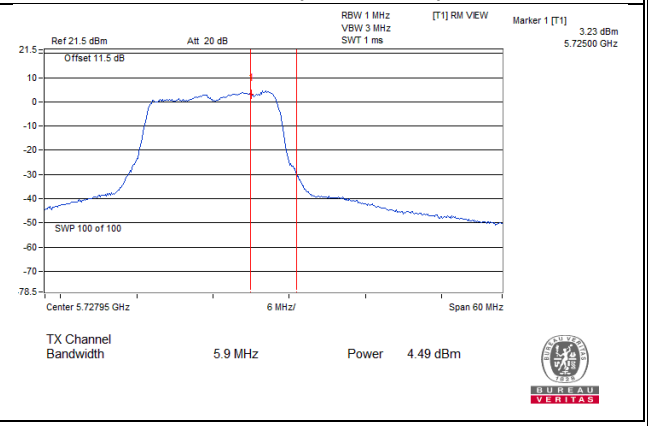
Straddle channel power plots:

802.11a

Chain 0

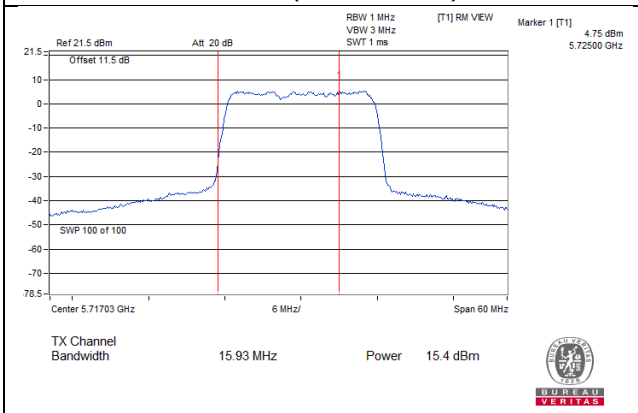
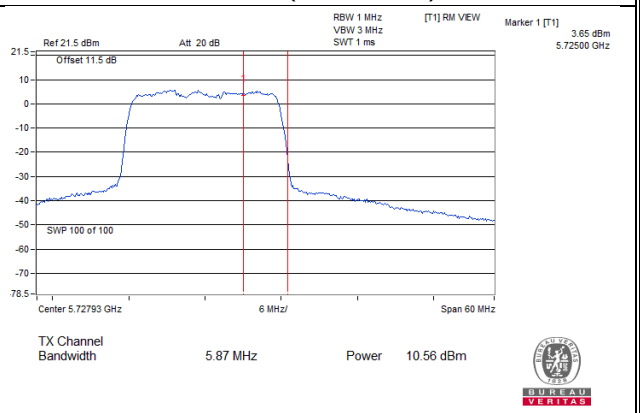
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	
TX Channel Bandwidth 15.78 MHz Power 16.07 dBm	TX Channel Bandwidth 5.86 MHz Power 4.47 dBm

Chain 1

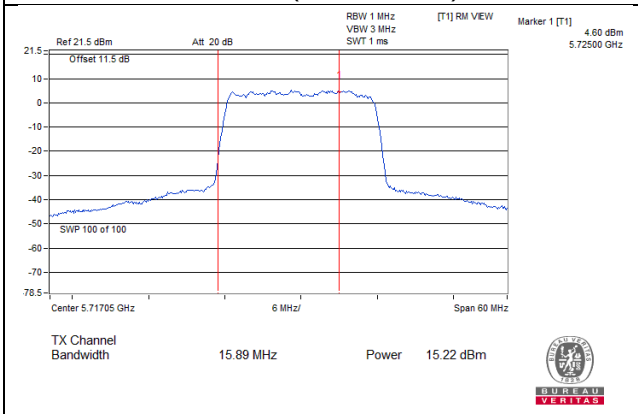
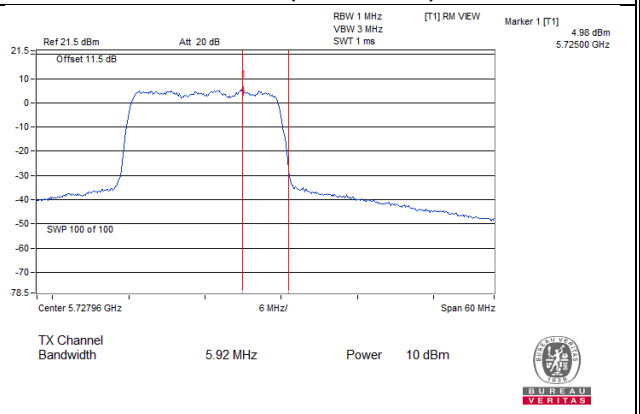
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	
TX Channel Bandwidth 15.83 MHz Power 16.44 dBm	TX Channel Bandwidth 5.9 MHz Power 4.49 dBm

802.11ax (HE20)

Chain 0

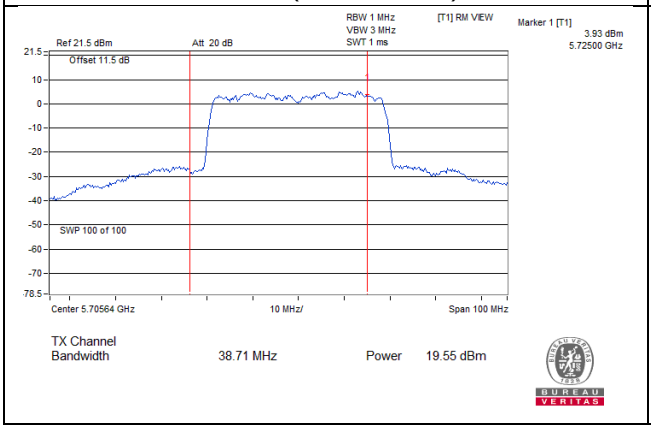
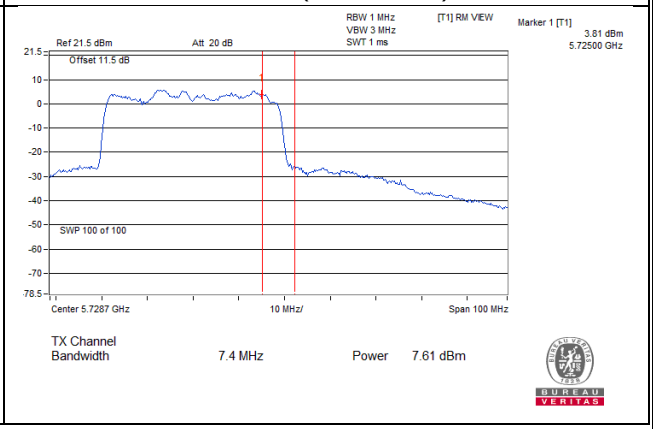
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	
TX Channel Bandwidth 15.93 MHz Power 15.4 dBm	TX Channel Bandwidth 5.87 MHz Power 10.56 dBm

Chain 1

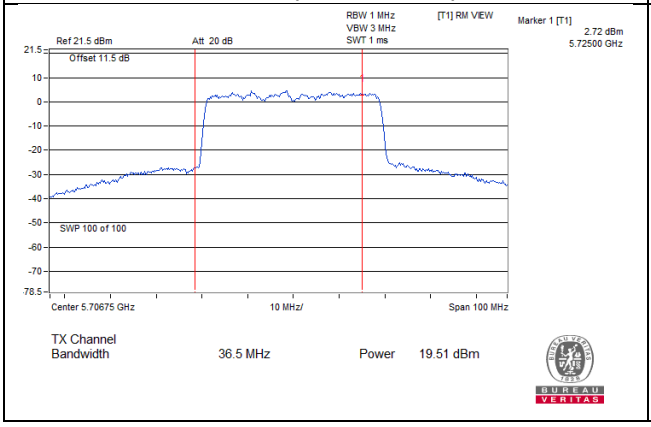
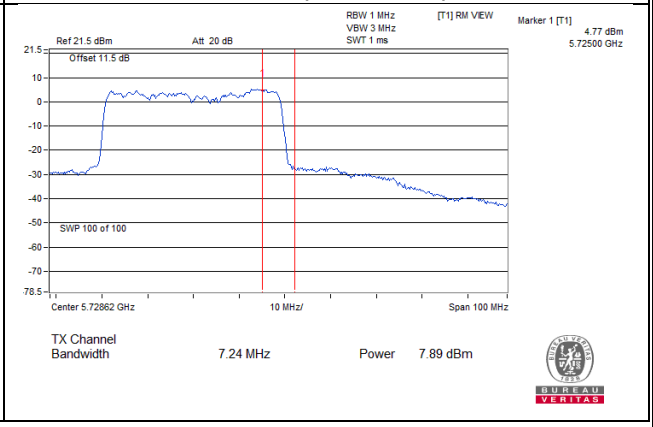
CH 144 (For U-NII-2C)	CH 144 (For U-NII-3)
	
TX Channel Bandwidth 15.89 MHz Power 15.22 dBm	TX Channel Bandwidth 5.92 MHz Power 10 dBm

802.11ax (HE40)

Chain 0

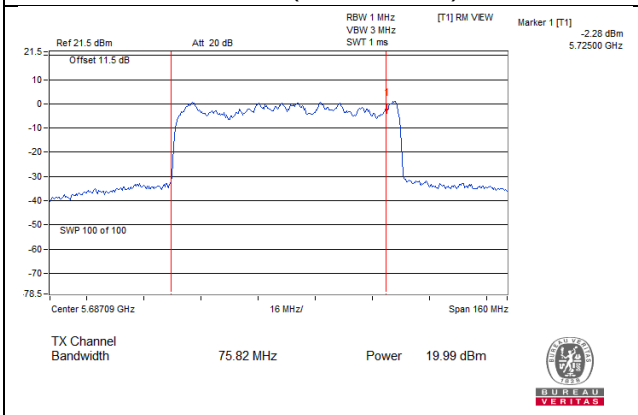
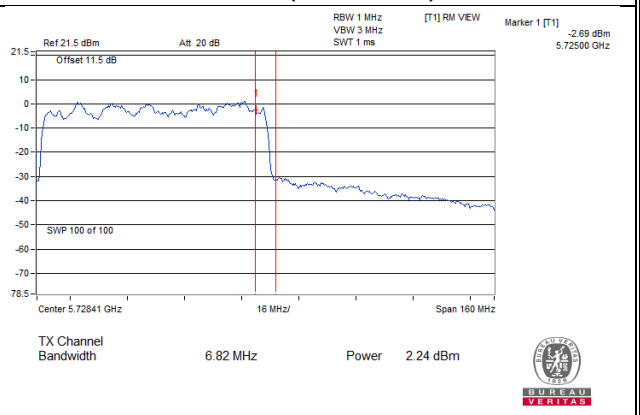
CH 142 (For U-NII-2C)	CH 142 (For U-NII-3)
	
TX Channel Bandwidth 38.71 MHz Power 19.55 dBm	TX Channel Bandwidth 7.4 MHz Power 7.61 dBm

Chain 1

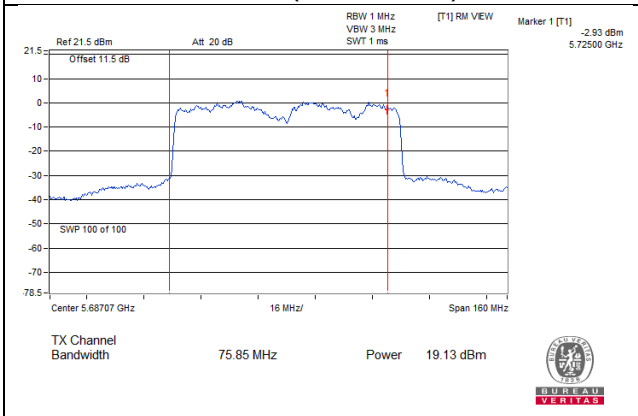
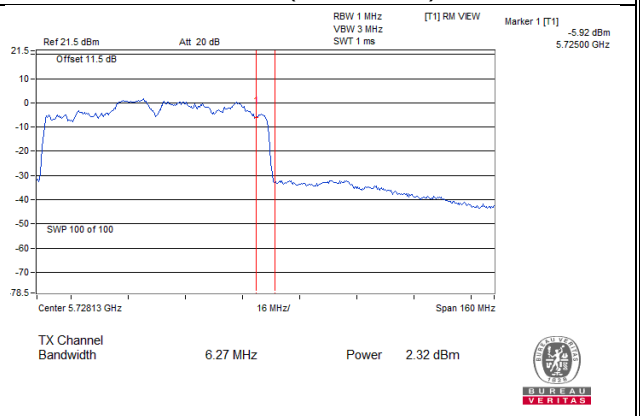
CH 142 (For U-NII-2C)	CH 142 (For U-NII-3)
	
TX Channel Bandwidth 36.5 MHz Power 19.51 dBm	TX Channel Bandwidth 7.24 MHz Power 7.89 dBm

802.11ax (HE80)

Chain 0

CH 138 (For U-NII-2C)	CH 138 (For U-NII-3)
	
TX Channel Bandwidth 75.82 MHz Power 19.99 dBm	TX Channel Bandwidth 6.82 MHz Power 2.24 dBm

Chain 1

CH 138 (For U-NII-2C)	CH 138 (For U-NII-3)
	
TX Channel Bandwidth 75.85 MHz Power 19.13 dBm	TX Channel Bandwidth 6.27 MHz Power 2.32 dBm

26dB Bandwidth:

5G traffic radio (Radio 1)

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
100	5500	21.69	21.70
116	5580	21.76	21.67
140	5700	21.75	21.85
144	5720 (U-NII-2C)	15.71	15.74
144	5720 (U-NII-3)	5.86	5.87

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
100	5500	21.86	21.87
116	5580	21.90	21.91
140	5700	21.95	21.86
144	5720 (U-NII-2C)	15.94	15.92
144	5720 (U-NII-3)	5.90	5.90

802.11ax (HE40)

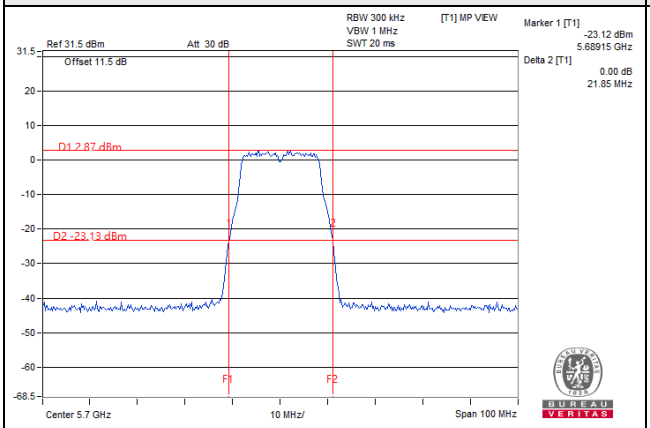
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
102	5510	41.43	41.45
110	5550	41.54	41.43
134	5670	41.45	41.48
142	5710 (U-NII-2C)	35.54	35.59
142	5710 (U-NII-3)	5.59	5.60

802.11ax (HE80)

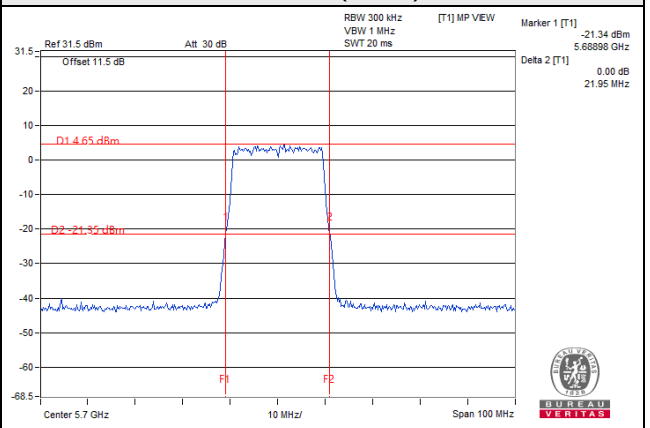
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
106	5530	82.34	82.49
122	5610	82.47	82.35
138	5690 (U-NII-2C)	75.84	75.84
138	5690 (U-NII-3)	6.25	6.22

Spectrum Plot of Worst Value

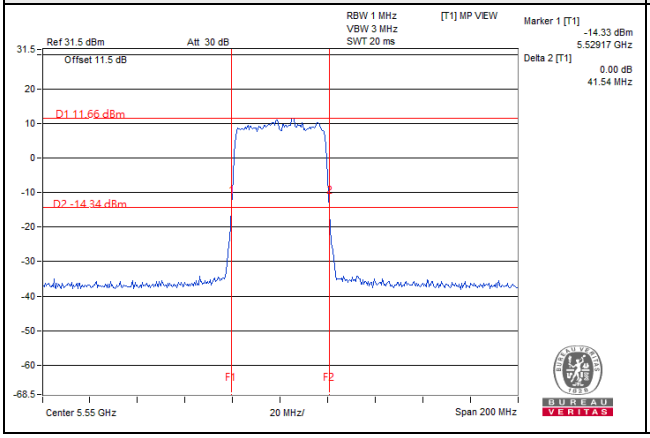
802.11a



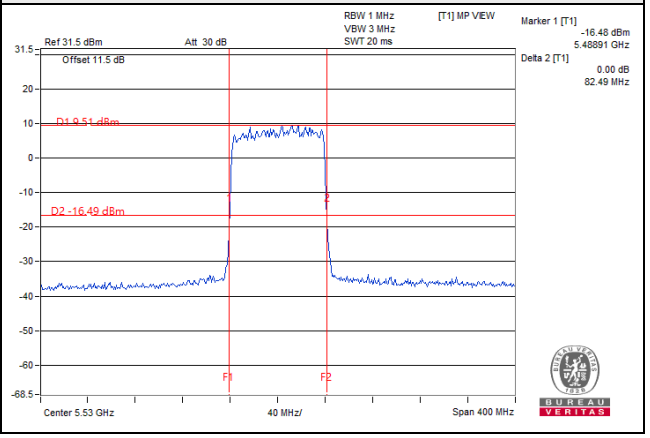
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



5G traffic radio (Radio 2)

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.44	21.41
60	5300	21.89	21.73
64	5320	21.68	21.65
100	5500	21.75	21.72
116	5580	21.66	21.75
140	5700	21.76	21.75
144	5720 (U-NII-2C)	15.79	15.78
144	5720 (U-NII-3)	5.83	5.85

802.11ax (HE20)

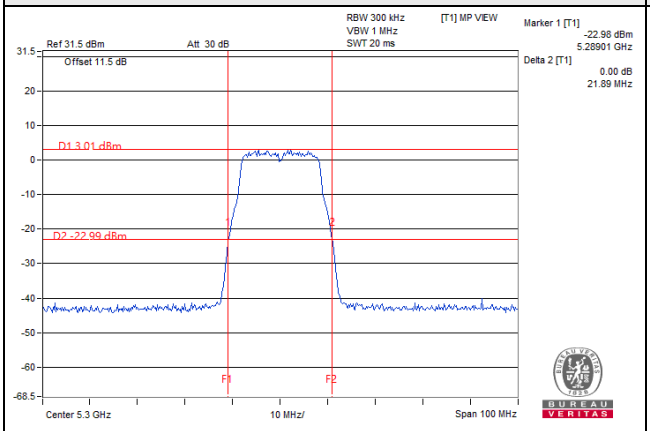
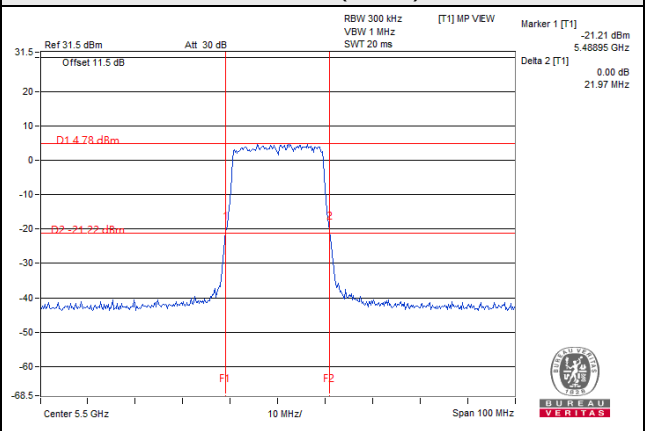
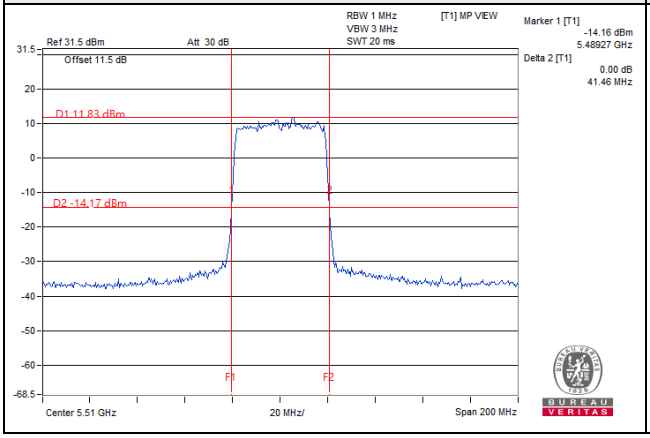
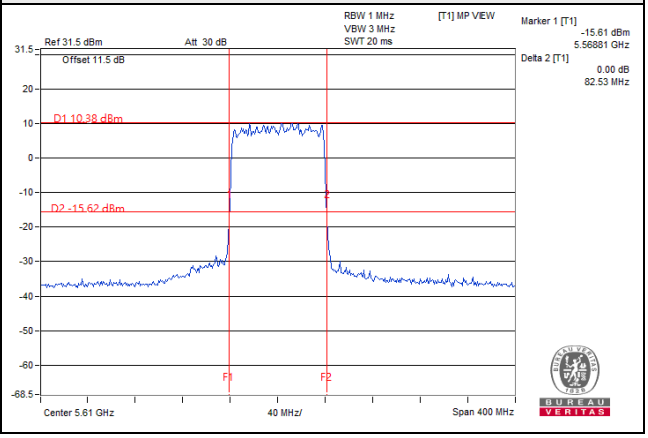
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.83	21.80
60	5300	21.72	21.84
64	5320	21.81	21.81
100	5500	21.97	21.93
116	5580	21.90	21.96
140	5700	21.91	21.93
144	5720 (U-NII-2C)	15.95	15.98
144	5720 (U-NII-3)	5.90	5.89

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.31	41.08
62	5310	41.25	41.35
102	5510	41.46	41.43
110	5550	41.41	41.45
134	5670	41.44	41.43
142	5710 (U-NII-2C)	35.64	35.62
142	5710 (U-NII-3)	5.60	5.61

802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.00	81.89
106	5530	82.27	82.48
122	5610	82.36	82.53
138	5690 (U-NII-2C)	75.75	75.86
138	5690 (U-NII-3)	6.13	6.19

Spectrum Plot of Worst Value	
802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

5G traffic radio (Radio 3)

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.60	21.70
60	5300	21.81	21.82
64	5320	21.82	21.72
100	5500	21.84	21.82
116	5580	21.82	21.87
140	5700	21.78	21.82
144	5720 (U-NII-2C)	15.78	15.83
144	5720 (U-NII-3)	5.86	5.90

802.11ax (HE20)

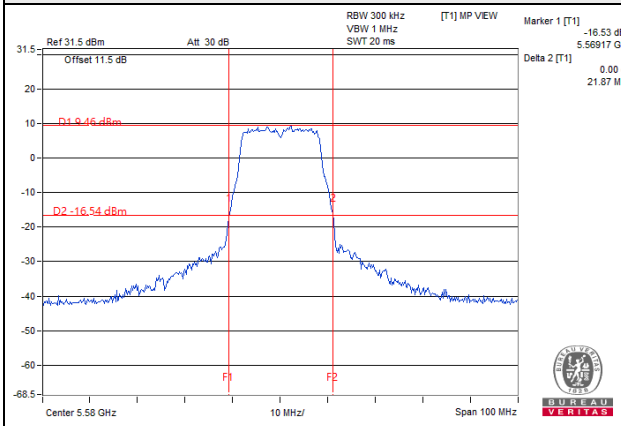
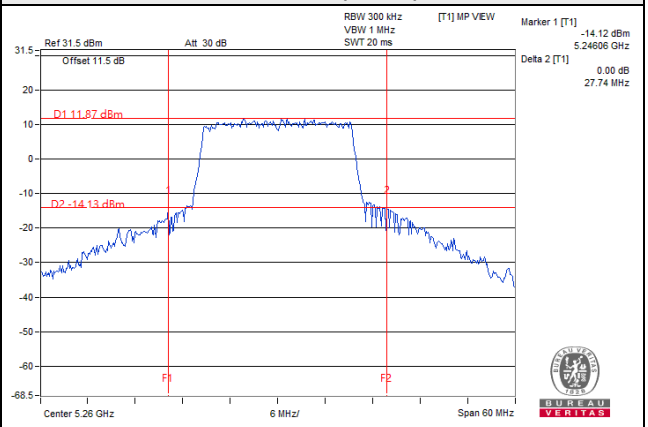
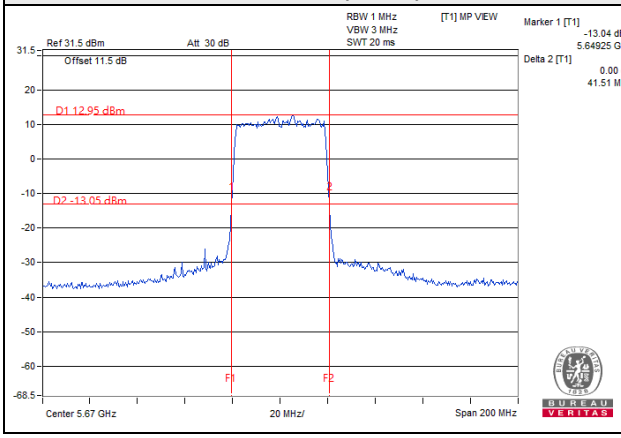
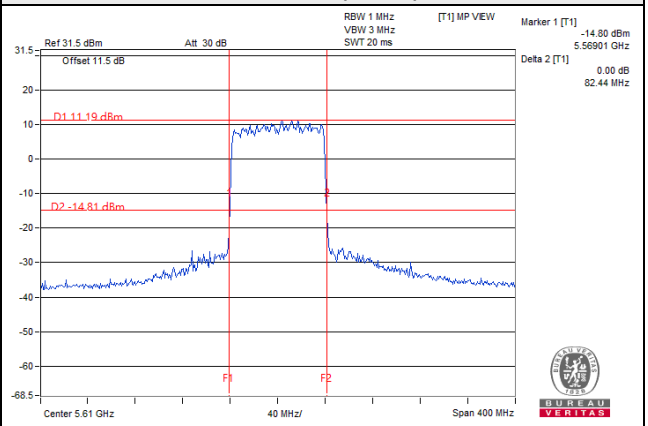
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	27.74	21.55
60	5300	21.84	21.95
64	5320	21.78	21.89
100	5500	21.87	21.84
116	5580	21.90	21.91
140	5700	21.93	21.91
144	5720 (U-NII-2C)	15.93	15.89
144	5720 (U-NII-3)	5.87	5.92

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.44	41.08
62	5310	41.41	41.42
102	5510	41.41	41.34
110	5550	41.41	41.37
134	5670	41.51	41.39
142	5710 (U-NII-2C)	38.71	36.50
142	5710 (U-NII-3)	7.40	7.24

802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	81.90	81.57
106	5530	82.35	82.23
122	5610	82.35	82.44
138	5690 (U-NII-2C)	75.82	75.85
138	5690 (U-NII-3)	6.82	6.27

Spectrum Plot of Worst Value	
802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

EUT Average Power

5G traffic radio (Radio 1)

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	14.22	26.434

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.00	31.589

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	18.38	68.802

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.05	31.991

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	18.44	69.812

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	18.92	77.979

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.14	32.624

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	18.52	71.132

802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	19.00	79.345

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	12.06	16.052

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.44	35.032

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.92	39.097

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	12.13	16.313

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.51	35.568

802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5470~5725	15.99	39.675

5G traffic radio (Radio 2)

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	13.84	24.212
5470~5725	15.39	34.56

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	14.29	26.858
5470~5725	15.09	32.288

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	17.58	57.293
5470~5725	17.31	53.856

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	14.37	27.358
5470~5725	15.15	32.7

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	17.63	57.887
5470~5725	17.35	54.265

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	18.20	66.144
5470~5725	19.30	85.126

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	14.43	27.739
5470~5725	15.22	33.269

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	17.70	58.898
5470~5725	17.44	55.412

802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	18.29	67.529
5470~5725	19.38	86.709

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	11.36	13.68
5470~5725	12.14	16.351

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	14.62	28.945
5470~5725	14.34	27.134

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.19	33.074
5470~5725	16.29	42.566

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	11.42	13.87
5470~5725	12.21	16.635

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	14.69	29.451
5470~5725	14.43	27.708

802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.28	33.767
5470~5725	16.37	43.357

5G traffic radio (Radio 3)

CDD Mode

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	19.53	89.803
5470~5725	20.06	101.293

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	19.63	91.746
5470~5725	19.56	90.325

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.07	202.55
5470~5725	22.13	163.153

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	19.71	93.524
5470~5725	19.59	91.052

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.12	204.896
5470~5725	22.18	165.243

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	18.90	77.543
5470~5725	22.93	196.115

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	19.77	94.816
5470~5725	19.68	92.958

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	23.22	209.668
5470~5725	22.73	187.332

802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	18.97	78.803
5470~5725	23.01	200.176

Beamforming Mode

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	16.69	46.653
5470~5725	16.60	45.736

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	20.11	102.455
5470~5725	19.89	97.48

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.89	38.774
5470~5725	19.93	98.348

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	16.76	47.411
5470~5725	16.67	46.482

802.11ax (HE40)

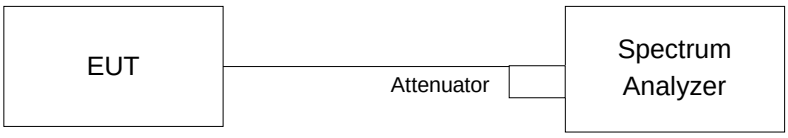
Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	20.21	104.841
5470~5725	19.72	93.672

802.11ax (HE80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	15.96	39.404
5470~5725	20.00	100.095

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 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.

4.4.4 Test Result

5G traffic radio (Radio 1)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
100	5500	17.04	17.04
116	5580	17.04	17.04
140	5700	17.04	17.04
144	5720 (U-NII-2C)	13.52	13.52
144	5720 (U-NII-3)	3.52	3.52

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
100	5500	19.08	19.08
116	5580	19.08	19.08
140	5700	19.08	19.08
144	5720 (U-NII-2C)	14.60	14.60
144	5720 (U-NII-3)	4.48	4.48

802.11ax (HE40)

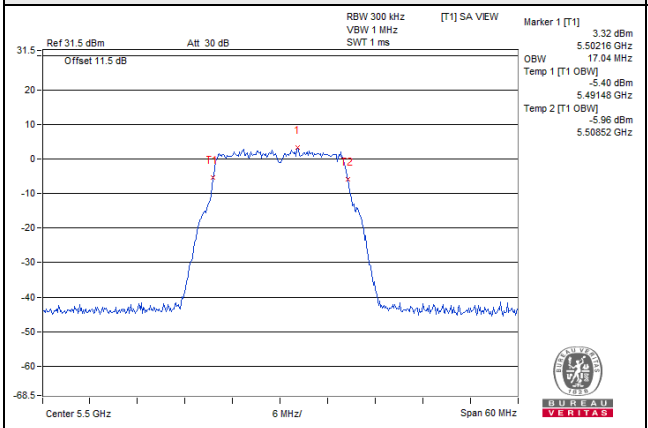
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
102	5510	37.80	37.80
110	5550	37.80	37.80
134	5670	37.80	37.80
142	5710 (U-NII-2C)	33.96	33.96
142	5710 (U-NII-3)	3.84	3.84

802.11ax (HE80)

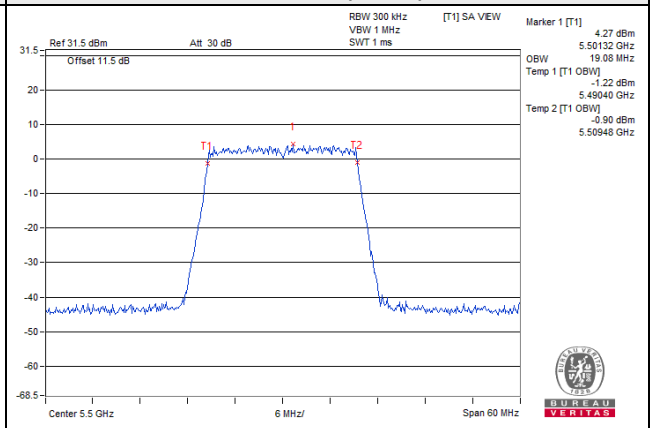
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
106	5530	77.04	76.80
122	5610	77.04	77.04
138	5690 (U-NII-2C)	73.40	73.40
138	5690 (U-NII-3)	3.40	3.64

Spectrum Plot of Worst Value

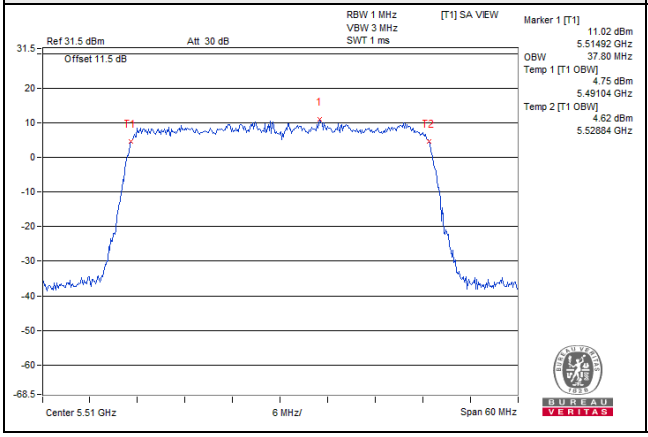
802.11a



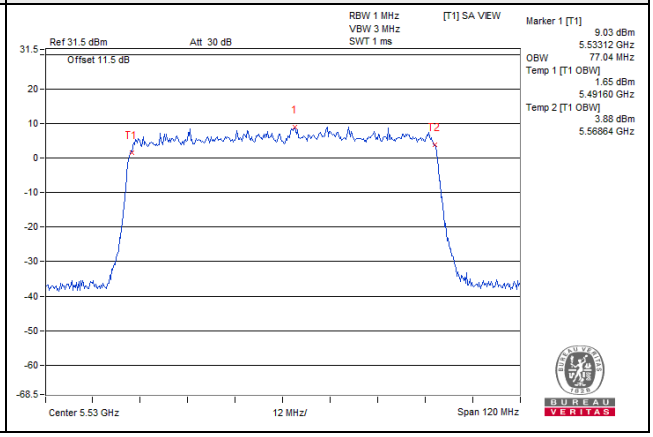
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



5G traffic radio (Radio 2)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.98	16.86
60	5300	17.04	17.04
64	5320	17.04	17.04
100	5500	17.04	17.04
116	5580	17.04	17.04
140	5700	17.04	17.04
144	5720 (U-NII-2C)	13.52	13.52
144	5720 (U-NII-3)	3.52	3.52

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.08	19.08
60	5300	19.20	19.20
64	5320	19.08	19.08
100	5500	19.08	19.08
116	5580	19.08	19.08
140	5700	19.08	19.08
144	5720 (U-NII-2C)	14.60	14.60
144	5720 (U-NII-3)	4.48	4.48

802.11ax (HE40)

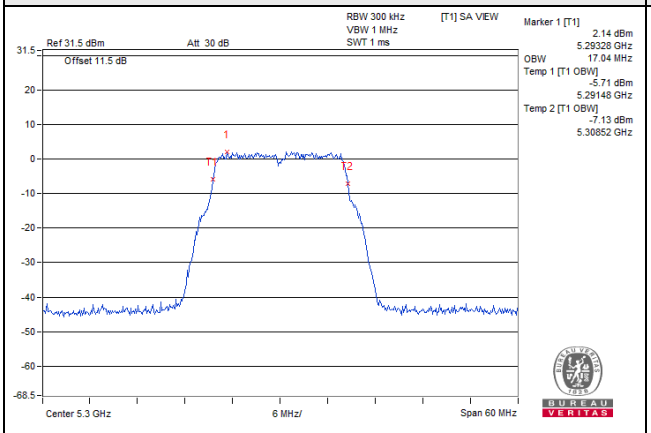
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	37.80	37.68
62	5310	37.80	37.80
102	5510	37.80	37.68
110	5550	37.68	37.68
134	5670	37.80	37.80
142	5710 (U-NII-2C)	33.96	34.08
142	5710 (U-NII-3)	3.84	3.84

802.11ax (HE80)

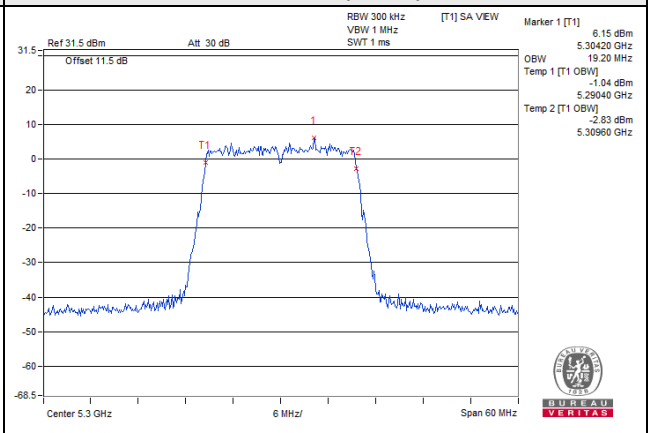
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	77.04	77.04
106	5530	77.04	76.80
122	5610	76.80	76.80
138	5690 (U-NII-2C)	73.40	73.40
138	5690 (U-NII-3)	3.40	3.40

Spectrum Plot of Worst Value

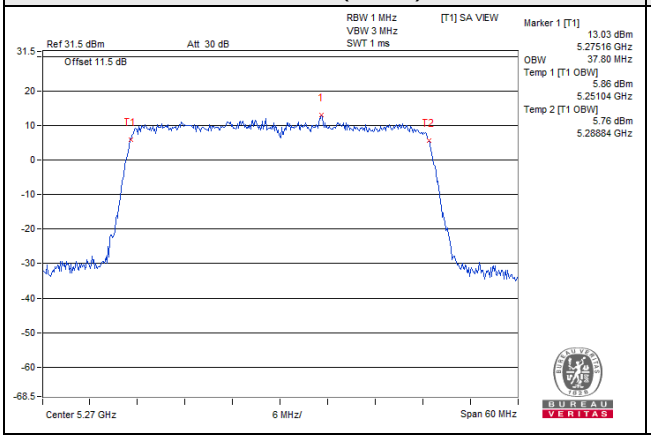
802.11a



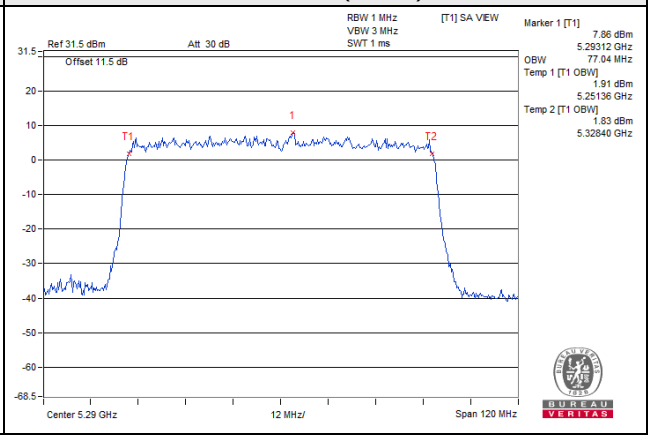
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



5G traffic radio (Radio 3)

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	16.92	16.86
60	5300	17.04	17.04
64	5320	17.04	17.04
100	5500	17.04	17.04
116	5580	17.04	17.04
140	5700	17.04	17.04
144	5720 (U-NII-2C)	13.52	13.52
144	5720 (U-NII-3)	3.52	3.52

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.08	19.08
60	5300	19.08	19.08
64	5320	19.08	19.08
100	5500	19.08	19.08
116	5580	19.08	19.08
140	5700	19.08	19.08
144	5720 (U-NII-2C)	14.60	14.60
144	5720 (U-NII-3)	4.48	4.48

802.11ax (HE40)

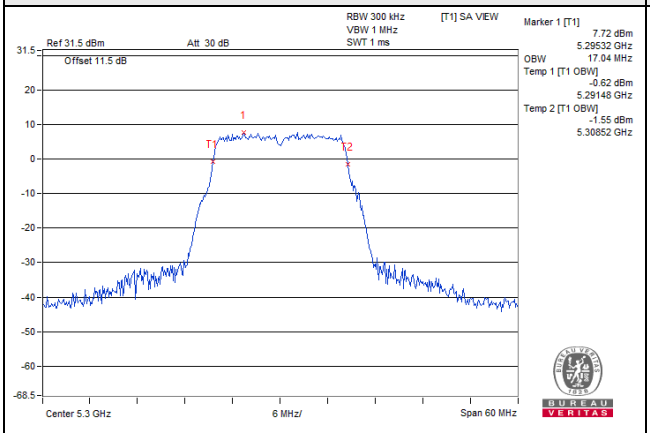
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	37.80	37.80
62	5310	37.68	37.80
102	5510	37.80	37.80
110	5550	37.80	37.80
134	5670	37.80	37.68
142	5710 (U-NII-2C)	33.96	33.96
142	5710 (U-NII-3)	3.84	3.84

802.11ax (HE80)

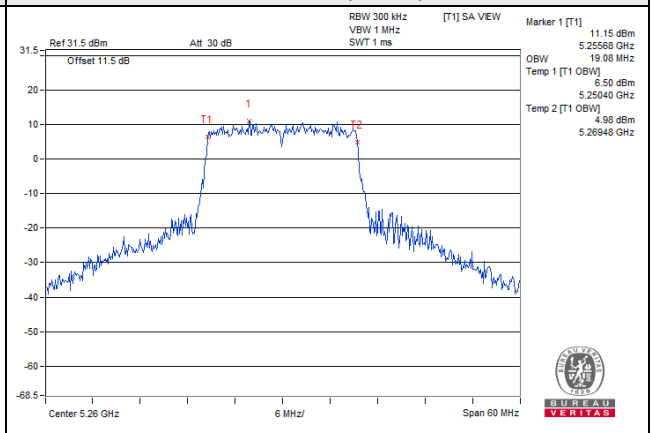
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	76.80	76.80
106	5530	77.04	76.80
122	5610	77.04	76.80
138	5690 (U-NII-2C)	73.40	73.40
138	5690 (U-NII-3)	3.40	3.64

Spectrum Plot of Worst Value

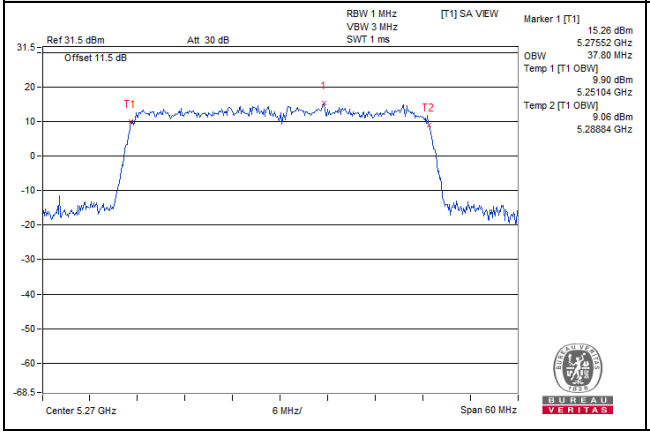
802.11a



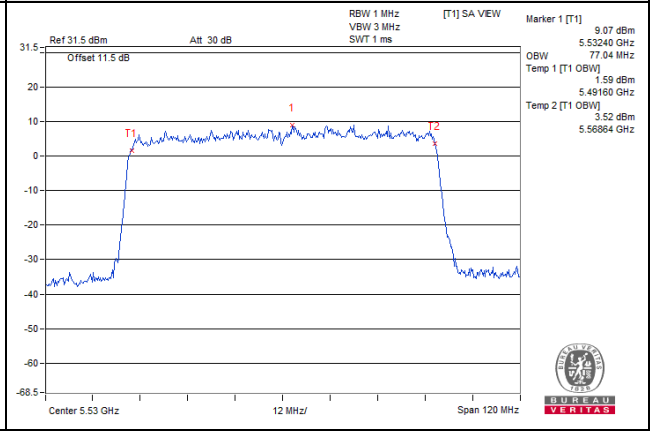
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

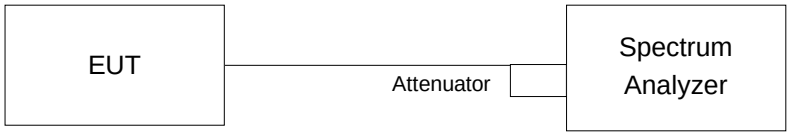


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz
		Fixed point-to-point Access Point	
		Indoor Access Point	
		Mobile and Portable client device	11dBm/ MHz
U-NII-2A	√		11dBm/ MHz
U-NII-2C	√		11dBm/ MHz
U-NII-3			30dBm/ 500kHz

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

For U-NII-2A and U-NII-2C band:

Using method SA-2

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.

b. Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS

c. Set Channel power measure = 1MHz

d. Sweep time = auto, trigger set to “free run”.

e. Trace average at least 100 traces in power averaging mode.

f. Record the max value and add 10 log (1/duty cycle)

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

For U-NII-2A and U-NII-2C band:

5G traffic radio (Radio 1)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
100	5500	-0.21	-0.12	0.28	3.13	3.46	Pass
116	5580	-0.25	-0.10	0.28	3.12	3.46	Pass
140	5700	-0.45	-0.35	0.28	2.90	3.46	Pass
144	5720 (U-NII-2C)	-0.17	-0.13	0.28	3.14	3.46	Pass

Note:
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. 5500-5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.54 - 6) = 3.46dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
100	5500	-0.07	0.04	0.13	3.13	3.46	Pass
116	5580	0.00	0.01	0.13	3.15	3.46	Pass
140	5700	-0.25	-0.30	0.13	2.87	3.46	Pass
144	5720 (U-NII-2C)	-0.09	0.00	0.13	3.10	3.46	Pass

Note:
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. 5500-5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.54 - 6) = 3.46dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

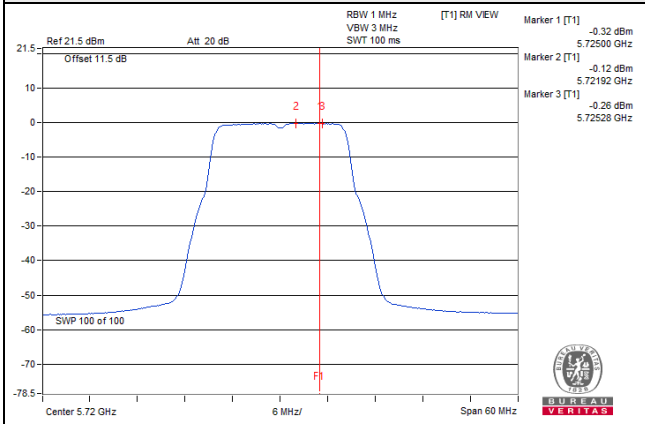
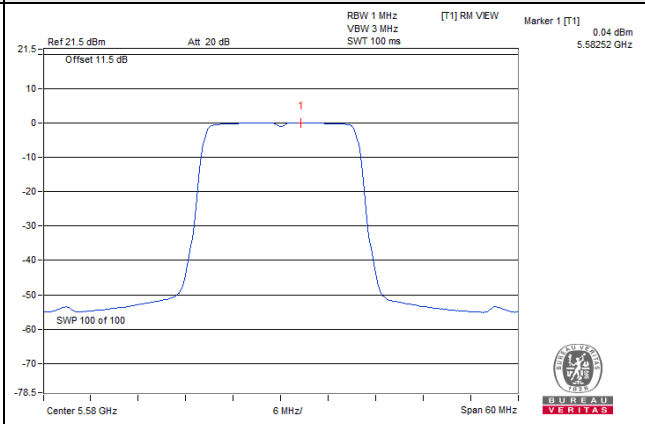
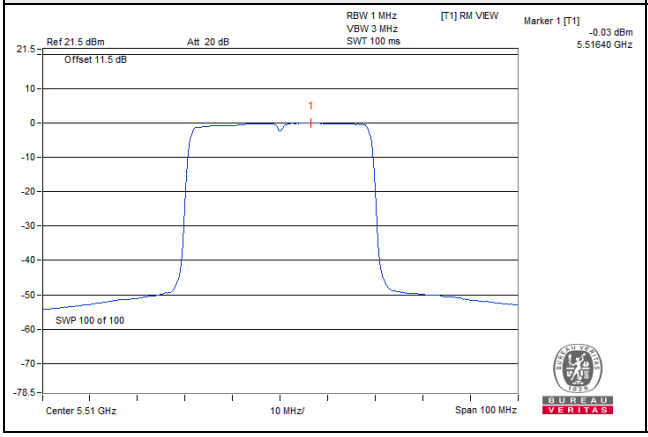
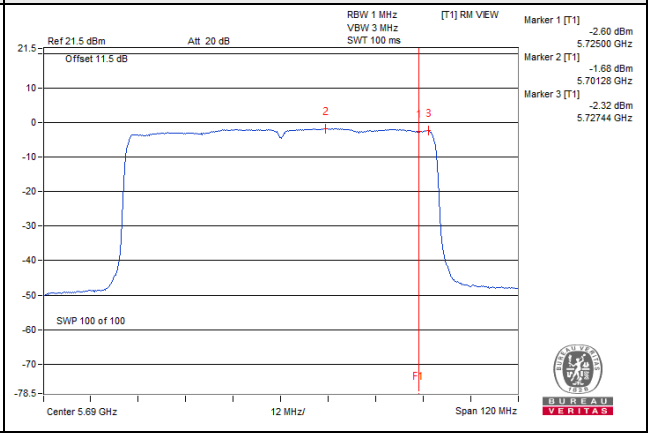
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
102	5510	-0.10	-0.03	0.21	3.15	3.46	Pass
110	5550	-0.12	-0.09	0.21	3.11	3.46	Pass
134	5670	-0.16	-0.03	0.21	3.12	3.46	Pass
142	5710 (U-NII-2C)	-0.22	-0.23	0.21	2.99	3.46	Pass

Note:
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. 5500-5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.54 - 6) = 3.46dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
106	5530	-1.82	-1.79	0.39	1.59	3.46	Pass
122	5610	-1.92	-1.95	0.39	1.46	3.46	Pass
138	5690 (U-NII-2C)	-1.72	-1.82	0.39	1.63	3.46	Pass

Note:
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. 5500-5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.54dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.54 - 6) = 3.46dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 1 / CH 144	802.11ax (HE20) / Chain 1 / CH 116
	
802.11ax (HE40) / Chain 1 / CH 102	802.11ax (HE80) / Chain 0 / CH 138
	

For 5745~5825MHz:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (U-NII-3C)	-5.43	-3.21	3.01	0.28	0.08	22.17	Pass
1	144	5720 (U-NII-3C)	-5.39	-3.17	3.01	0.28	0.12	22.17	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.83dBi > 6dBi, so the power density limit shall be reduced to 30 - (13.83 - 6) = 22.17dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (U-NII-3C)	-5.33	-3.11	3.01	0.13	0.03	22.17	Pass
1	144	5720 (U-NII-3C)	-5.3	-3.08	3.01	0.13	0.06	22.17	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.83dBi > 6dBi, so the power density limit shall be reduced to 30 - (13.83 - 6) = 22.17dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

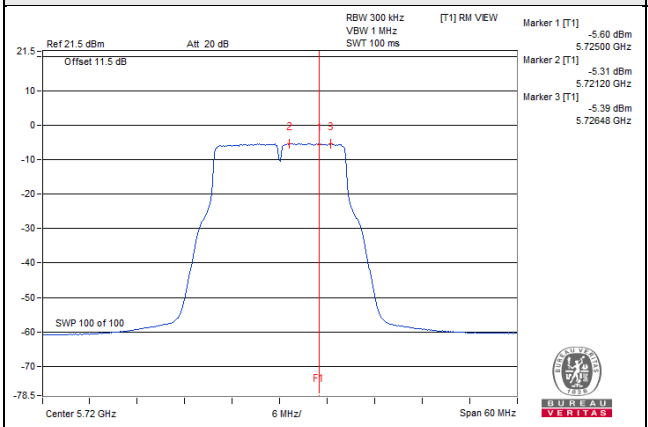
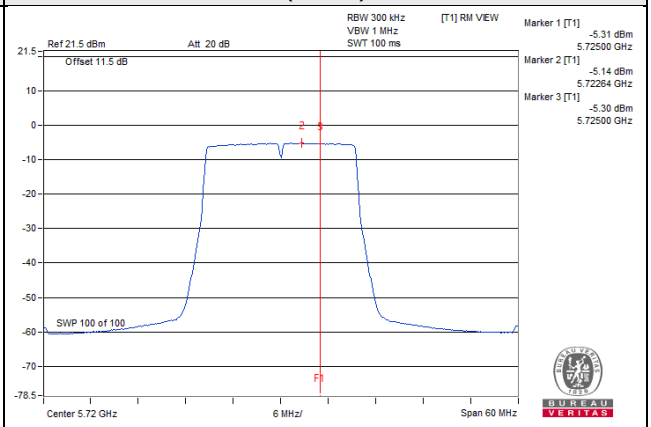
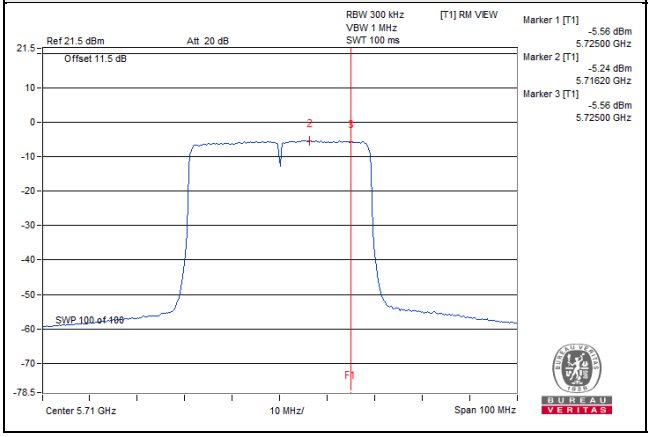
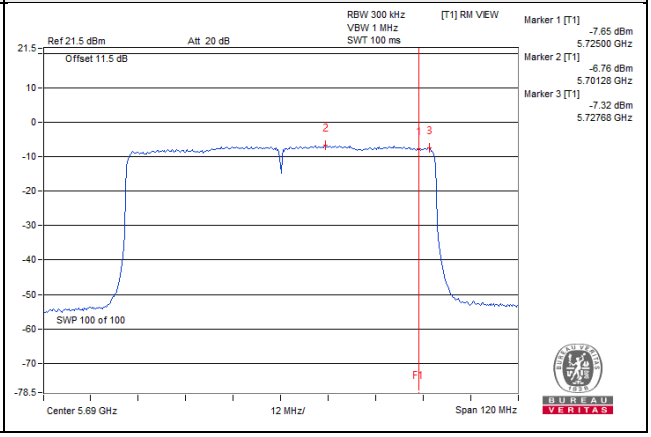
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710 (U-NII-3C)	-5.56	-3.34	3.01	0.21	-0.12	22.17	Pass
1	142	5710 (U-NII-3C)	-5.58	-3.36	3.01	0.21	-0.14	22.17	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.83dBi > 6dBi, so the power density limit shall be reduced to 30 - (13.83 - 6) = 22.17dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690 (U-NII-3C)	-7.32	-5.1	3.01	0.39	-1.7	22.17	Pass
1	138	5690 (U-NII-3C)	-7.35	-5.13	3.01	0.39	-1.73	22.17	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.83dBi > 6dBi, so the power density limit shall be reduced to 30 - (13.83 - 6) = 22.17dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 1	802.11ax (HE20) / Chain 1
	
802.11ax (HE40) / Chain 0	802.11ax (HE80) / Chain 0
	

5G traffic radio (Radio 2)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	-2.38	-2.57	0.28	0.82	3.57	Pass
60	5300	-2.67	-2.84	0.28	0.54	3.57	Pass
64	5320	-2.59	-2.79	0.28	0.60	3.57	Pass
100	5500	-0.38	-0.21	0.28	3.00	3.57	Pass
116	5580	-1.05	-1.88	0.28	1.85	3.57	Pass
140	5700	-1.56	-1.52	0.28	1.75	3.57	Pass
144	5720 (U-NII-2C)	-1.44	-1.53	0.28	1.81	3.57	Pass

Note:

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. 5260-5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
   5500-5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	-1.80	-1.66	0.12	1.41	3.57	Pass
60	5300	-1.82	-1.85	0.12	1.30	3.57	Pass
64	5320	-1.78	-1.81	0.12	1.34	3.57	Pass
100	5500	-0.69	-0.62	0.12	2.48	3.57	Pass
116	5580	-0.69	-0.69	0.12	2.44	3.57	Pass
140	5700	-1.37	-1.34	0.12	1.78	3.57	Pass
144	5720 (U-NII-2C)	-0.33	-0.26	0.12	2.84	3.57	Pass

Note:

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. 5260-5320MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
   5500-5720MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

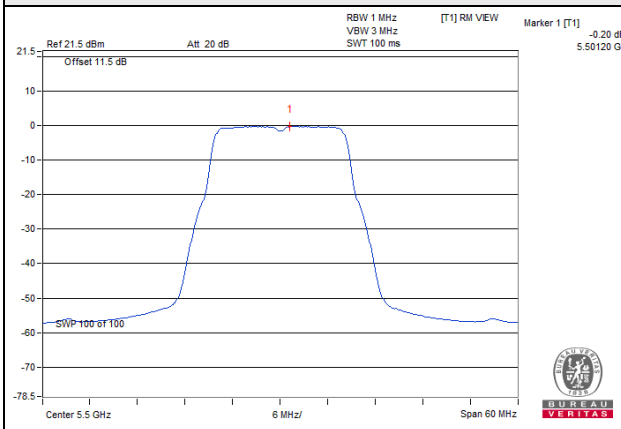
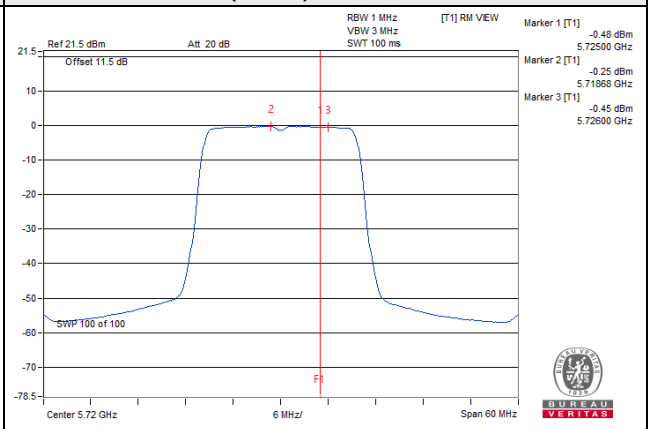
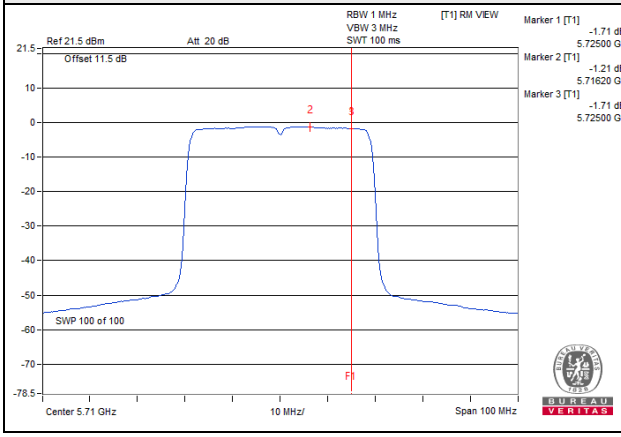
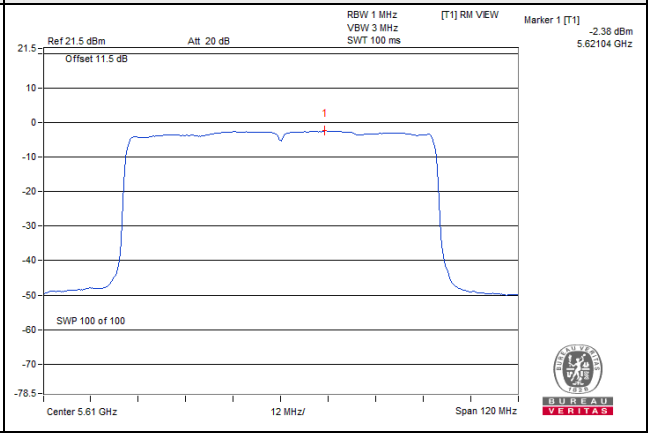
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	-1.56	-1.57	0.21	1.66	3.57	Pass
62	5310	-1.50	-1.43	0.21	1.76	3.57	Pass
102	5510	-1.83	-1.82	0.21	1.40	3.57	Pass
110	5550	-1.61	-1.90	0.21	1.47	3.57	Pass
134	5670	-1.50	-1.50	0.21	1.72	3.57	Pass
142	5710 (U-NII-2C)	-1.21	-1.72	0.21	1.77	3.57	Pass

Note:
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. 5270-5310MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
   5510-5710MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-3.64	-3.74	0.43	-0.25	3.57	Pass
106	5530	-3.70	-4.27	0.43	-0.54	3.57	Pass
122	5610	-2.38	-2.60	0.43	0.95	3.57	Pass
138	5690 (U-NII-2C)	-2.74	-2.92	0.43	0.61	3.57	Pass

Note:
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. 5290MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
   5530-5690MHz: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 11 - (13.43 - 6) = 3.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 1 / CH 100	802.11ax (HE20) / Chain 1 / CH 144
	
802.11ax (HE40) / Chain 0 / CH 142	802.11ax (HE80) / Chain 0 / CH 122
	

For 5745~5825MHz:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (U-NII-3C)	-6.95	-4.73	3.01	0.28	-1.44	22.57	Pass
1	144	5720 (U-NII-3C)	-6.81	-4.59	3.01	0.28	-1.3	22.57	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 30- (13.43 - 6) = 22.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (U-NII-3C)	-5.79	-3.57	3.01	0.12	-0.44	22.57	Pass
1	144	5720 (U-NII-3C)	-5.67	-3.45	3.01	0.12	-0.32	22.57	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 30- (13.43 - 6) = 22.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

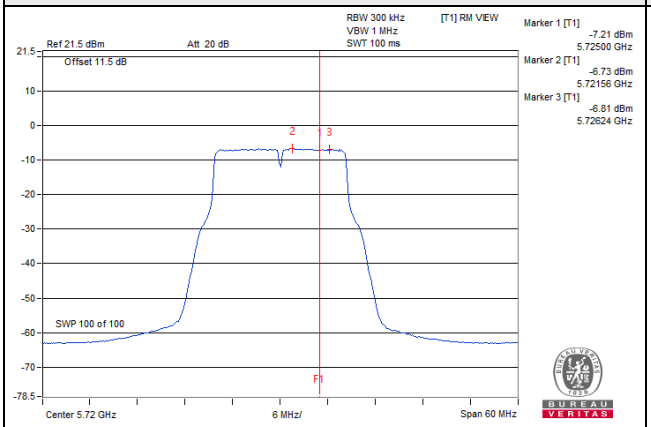
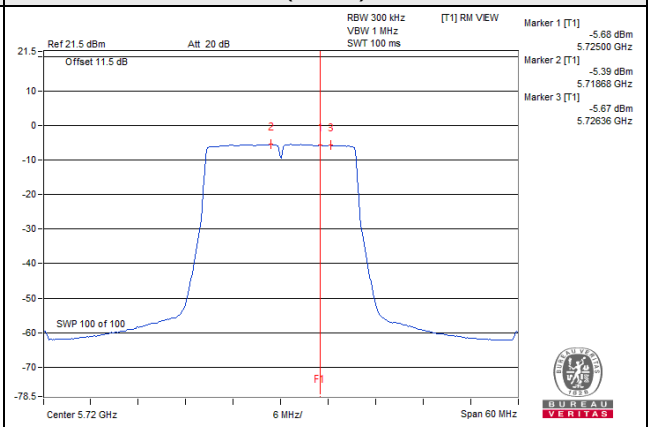
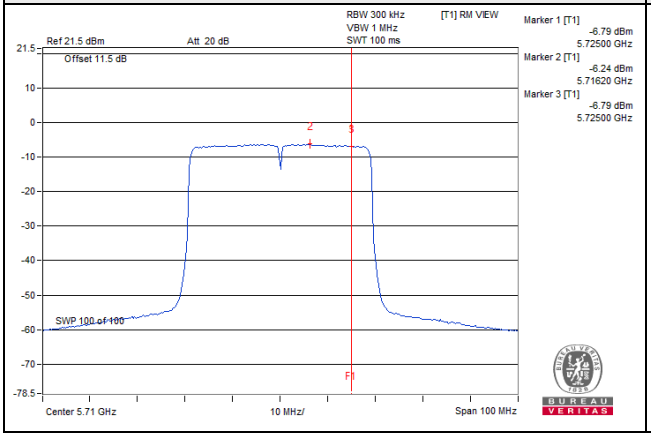
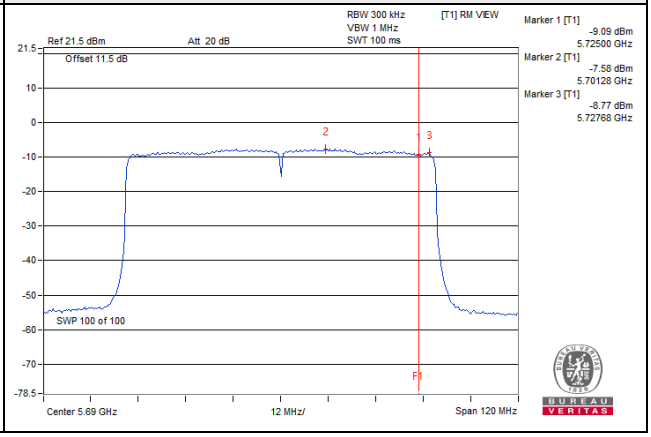
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710 (U-NII-3C)	-6.79	-4.57	3.01	0.21	-1.35	22.57	Pass
1	142	5710 (U-NII-3C)	-7.3	-5.08	3.01	0.21	-1.86	22.57	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 30- (13.43 - 6) = 22.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690 (U-NII-3C)	-8.77	-6.55	3.01	0.43	-3.11	22.57	Pass
1	138	5690 (U-NII-3C)	-9	-6.78	3.01	0.43	-3.34	22.57	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 13.43dBi > 6dBi, so the power density limit shall be reduced to 30- (13.43 - 6) = 22.57dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 1	802.11ax (HE20) / Chain 1
	
802.11ax (HE40) / Chain 0	802.11ax (HE80) / Chain 0
	

5G traffic radio (Radio 3)

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	3.37	3.14	0.32	6.58	9.25	Pass
60	5300	3.36	2.99	0.32	6.51	9.25	Pass
64	5320	3.50	3.54	0.32	6.85	9.25	Pass
100	5500	4.37	3.67	0.32	7.36	9.25	Pass
116	5580	3.58	3.35	0.32	6.79	9.25	Pass
140	5700	2.23	2.68	0.32	5.79	9.25	Pass
144	5720 (U-NII-2C)	3.30	3.55	0.32	6.75	9.25	Pass

Note:
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. 5260-5320MHz & 5500-5700MHz & 5720 MHz (U-NII-2C): Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.75 - 6) = 9.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
52	5260	3.79	3.68	0.15	6.90	9.25	Pass
60	5300	4.09	3.54	0.15	6.99	9.25	Pass
64	5320	3.88	3.38	0.15	6.80	9.25	Pass
100	5500	2.98	3.30	0.15	6.30	9.25	Pass
116	5580	3.67	3.20	0.15	6.60	9.25	Pass
140	5700	1.94	1.99	0.15	5.13	9.25	Pass
144	5720 (U-NII-2C)	3.15	3.56	0.15	6.52	9.25	Pass

Note:
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. 5260-5320MHz & 5500-5700MHz & 5720 MHz (U-NII-2C): Directional gain = 10 log[($10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.75 - 6) = 9.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

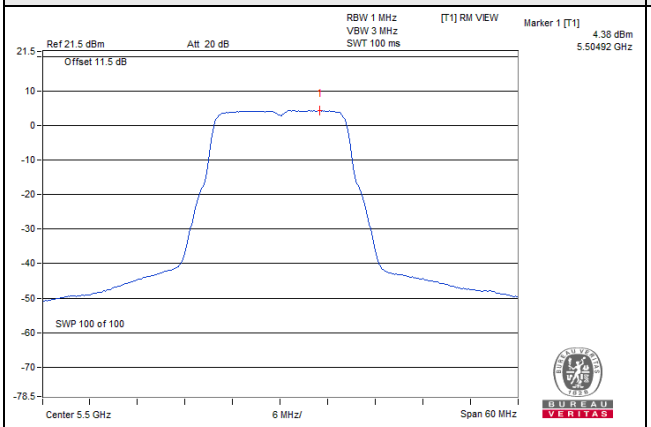
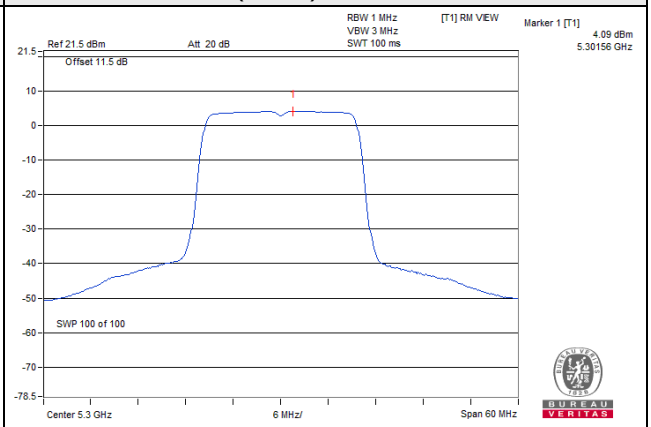
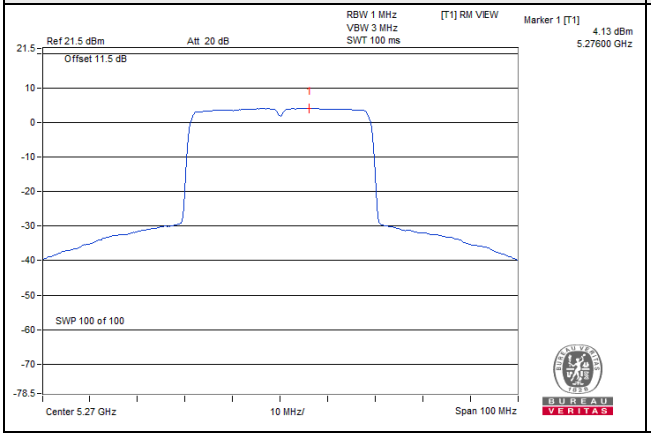
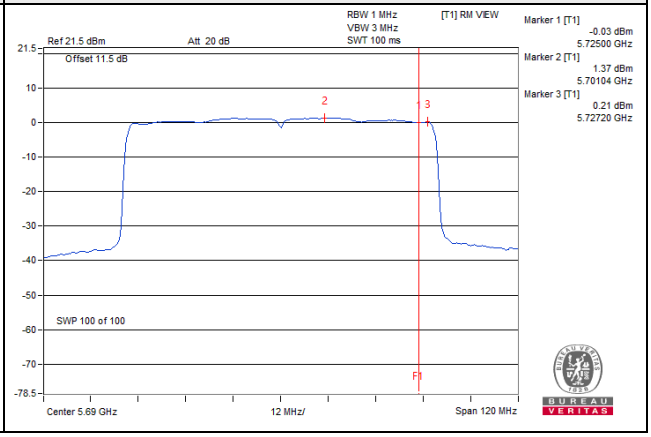
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
54	5270	4.07	4.13	0.19	7.30	9.25	Pass
62	5310	0.62	0.34	0.19	3.68	9.25	Pass
102	5510	0.73	0.04	0.19	3.59	9.25	Pass
110	5550	3.40	3.23	0.19	6.51	9.25	Pass
134	5670	1.22	0.80	0.19	4.21	9.25	Pass
142	5710 (U-NII-2C)	4.03	3.91	0.19	7.17	9.25	Pass

Note:
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. 5270-5310MHz & 5510-5670MHz & 5710 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.75 - 6) = 9.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
58	5290	-3.01	-3.03	0.42	0.41	9.25	Pass
106	5530	-2.13	-2.22	0.42	1.26	9.25	Pass
122	5610	-1.13	-0.60	0.42	2.58	9.25	Pass
138	5690 (U-NII-2C)	1.27	1.37	0.42	4.75	9.25	Pass

Note:
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. 5290MHz & 5530-5610MHz & 5690 MHz (U-NII-2C): Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 11 - (7.75 - 6) = 9.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value	
802.11a / Chain 0 / CH 100	802.11ax (HE20) / Chain 0 / CH 60
	
802.11ax (HE40) / Chain 1 / CH 54	802.11ax (HE80) / Chain 1 / CH 138
	

For 5745~5825MHz:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (U-NII-3C)	-2.21	0.01	3.01	0.32	3.34	28.25	Pass
1	144	5720 (U-NII-3C)	-1.91	0.31	3.01	0.32	3.64	28.25	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (U-NII-3C)	-2.32	-0.1	3.01	0.15	3.06	28.25	Pass
1	144	5720 (U-NII-3C)	-1.93	0.29	3.01	0.15	3.45	28.25	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

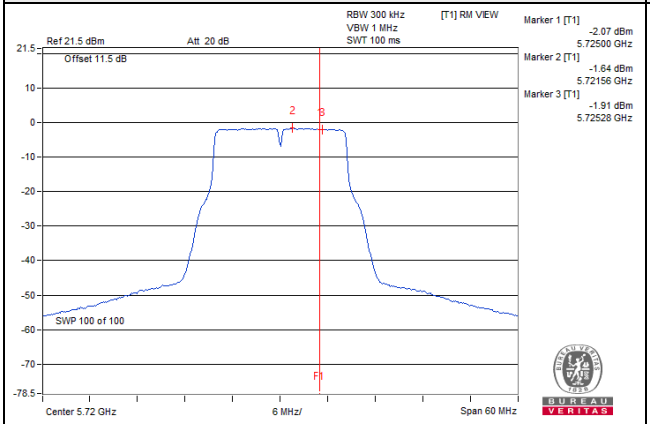
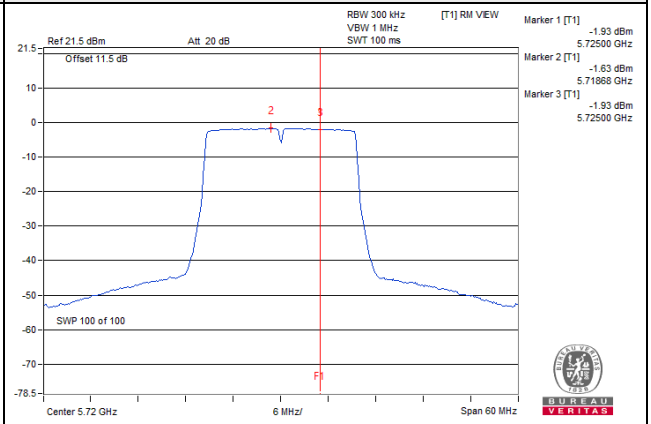
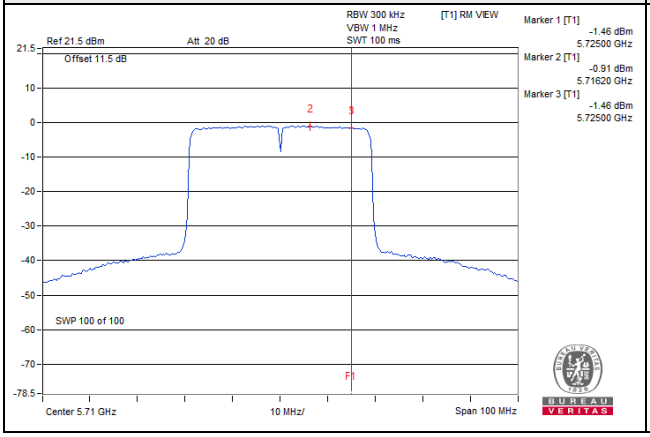
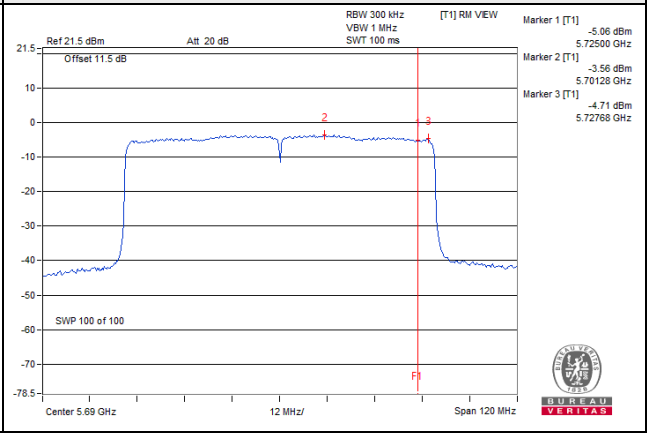
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710 (U-NII-3C)	-1.46	0.76	3.01	0.19	3.96	28.25	Pass
1	142	5710 (U-NII-3C)	-1.75	0.47	3.01	0.19	3.67	28.25	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690 (U-NII-3C)	-4.87	-2.65	3.01	0.42	0.78	28.25	Pass
1	138	5690 (U-NII-3C)	-4.71	-2.49	3.01	0.42	0.94	28.25	Pass

Note:
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$] = 7.75dBi > 6dBi, so the power density limit shall be reduced to 30 - (7.75 - 6) = 28.25dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

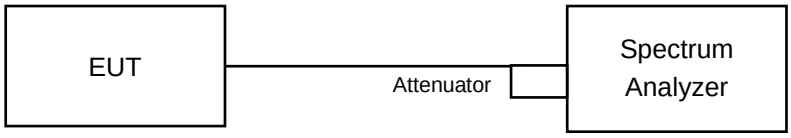
Spectrum Plot of Worst Value	
802.11a / Chain 1	802.11ax (HE20) / Chain 1
	
802.11ax (HE40) / Chain 0	802.11ax (HE80) / Chain 1
	

4.6 6dB Bandwidth Measurement

4.6.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

a. Set resolution bandwidth (RBW) = 100kHz
b. Set the video bandwidth (VBW) ≥ 3 x RBW, Detector = Peak.
c. Trace mode = max hold.
d. Sweep = auto couple.
e. Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.6.7 Test Results

5G traffic radio (Radio 1)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3C)	3.21	3.19	0.5	Pass

802.11ax (HE20)

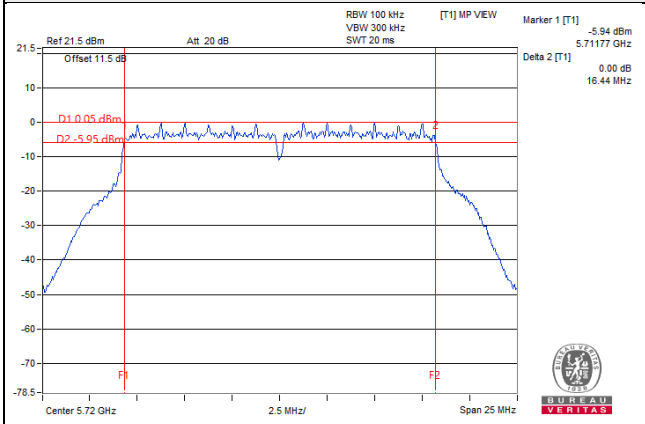
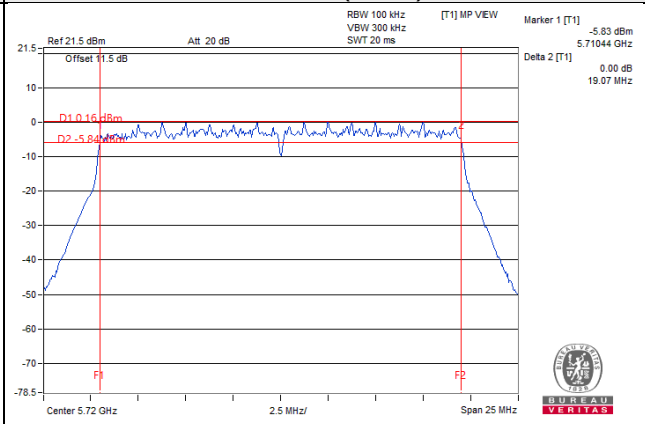
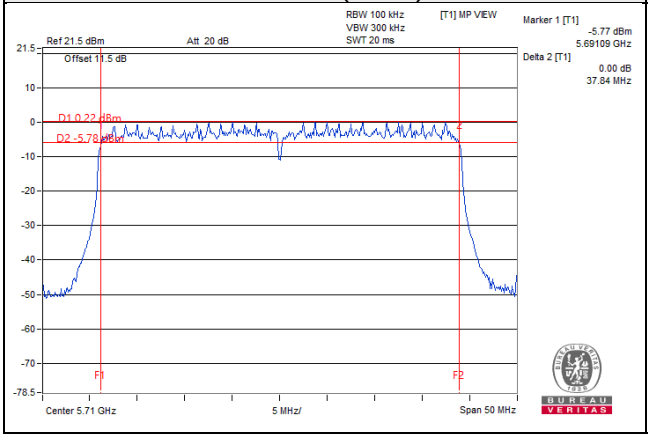
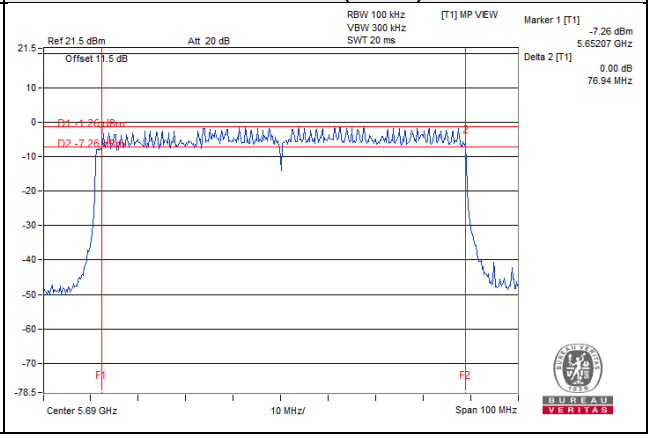
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3C)	4.51	4.51	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (U-NII-3C)	3.93	3.91	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (U-NII-3C)	4.01	3.94	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

Note:

For CH144 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

For CH142 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

For CH138 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5G traffic radio (Radio 2)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3C)	3.19	3.21	0.5	Pass

802.11ax (HE20)

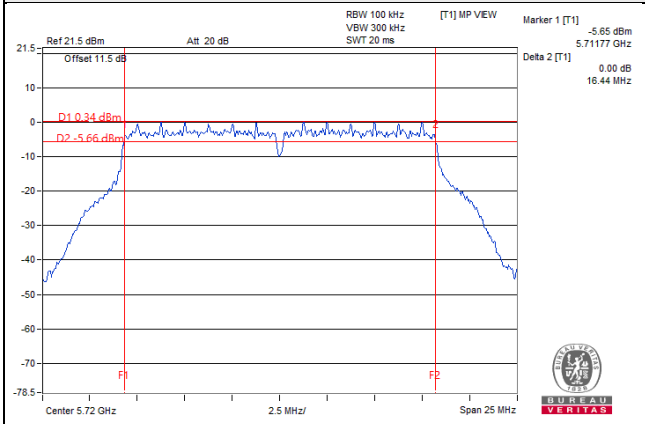
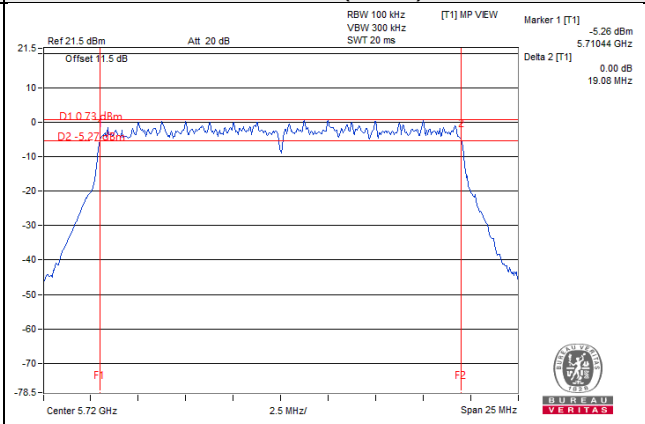
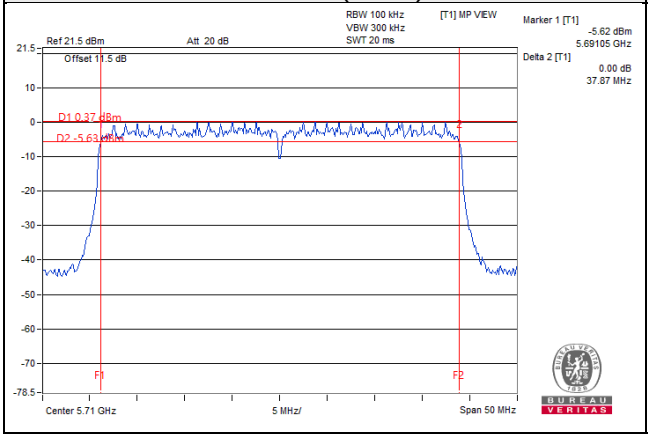
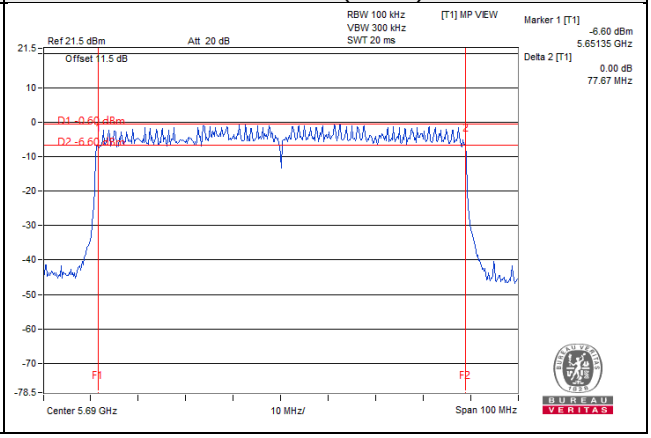
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3C)	4.52	4.52	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (U-NII-3C)	3.92	3.80	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (U-NII-3C)	4.00	4.02	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

Note:

For CH144 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

For CH142 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

For CH138 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5G traffic radio (Radio 3)

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3C)	3.19	3.19	0.5	Pass

802.11ax (HE20)

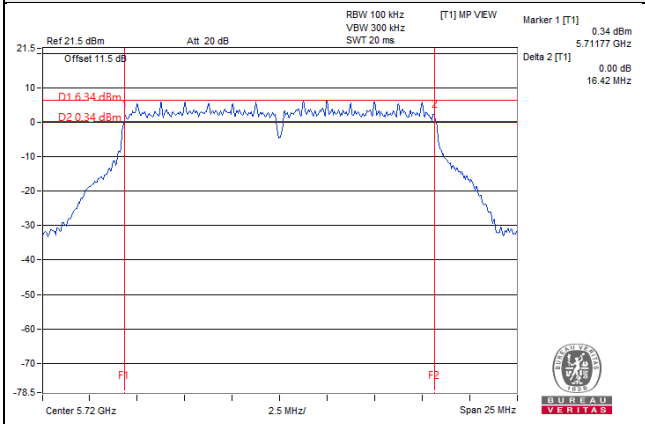
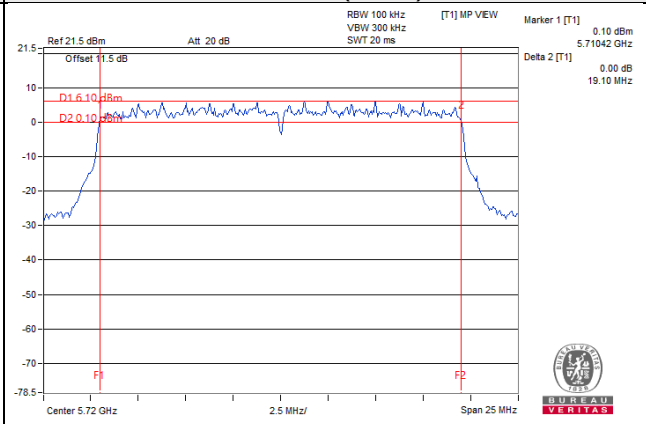
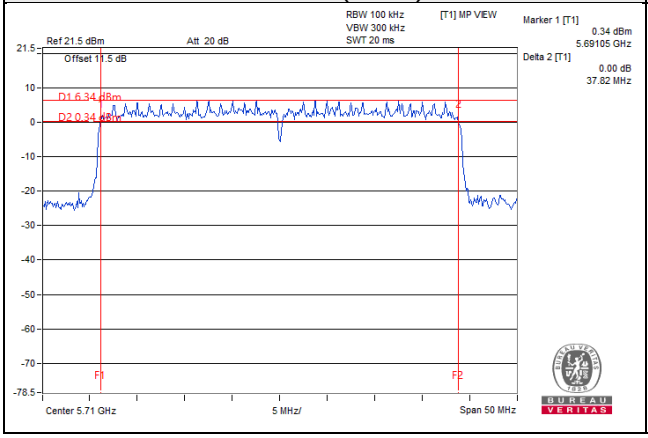
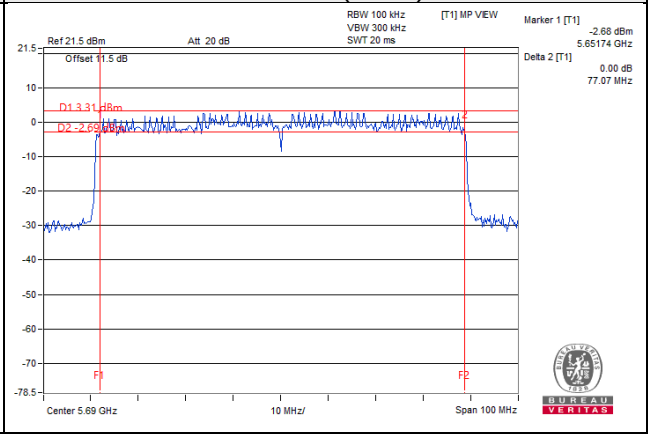
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (U-NII-3C)	4.52	4.51	0.5	Pass

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (U-NII-3C)	3.87	3.87	0.5	Pass

802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (U-NII-3C)	3.81	3.71	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11ax (HE20)
	
802.11ax (HE40)	802.11ax (HE80)
	

Note:

For CH144 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

For CH142 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

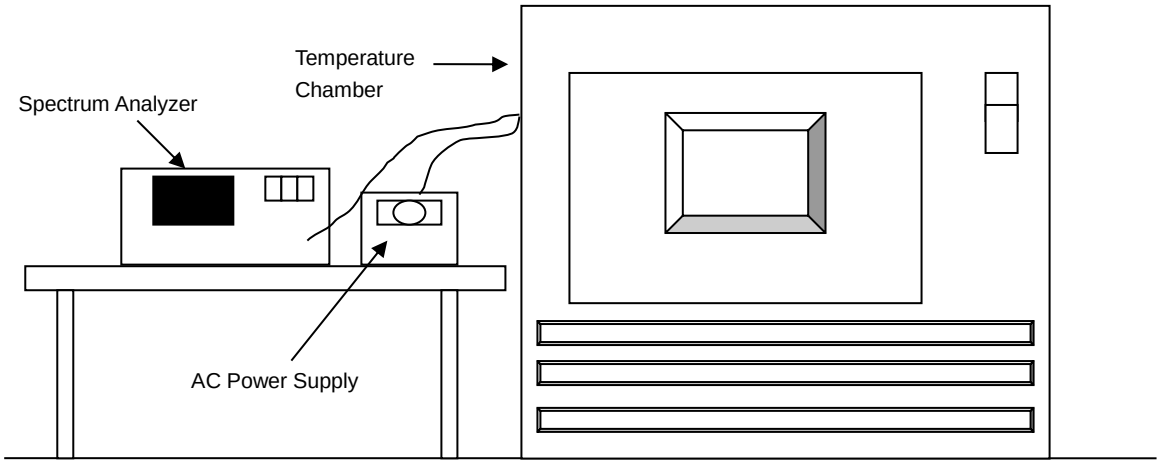
For CH138 (5745~5825MHz): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

4.7 Frequency Stability

4.7.1 Limits of Frequency Stability Measurement

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

4.7.2 Test Setup



4.7.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 16, 2020	Sep. 15, 2021
Temperature And Humidity Chamber TERCHY	MHU-225AU	920842	May 27, 2020	May 26, 2021
Digital Multimeter Fluke	87-III	70360742	Jun. 23, 2020	Jun. 22, 2021
AC Power Source EEC	6905S	1991553	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.7.4 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.

b. Turn the EUT on and couple its output to a spectrum analyzer.

c. Turn the EUT off and set the chamber to the highest temperature specified.

d. 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.

e. Repeat step d with every 10 degrees reduction until the lowest temperature achieved.

f. 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.

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

4.7.7 Test Results

5G traffic radio (Radio 1)

Frequency Stability Versus Temp.									
Operating Frequency: 5500MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
60	120	5500.0189	PASS	5500.0182	PASS	5500.0214	PASS	5500.0174	PASS
50	120	5499.9824	PASS	5499.983	PASS	5499.9821	PASS	5499.9817	PASS
40	120	5499.9969	PASS	5499.9975	PASS	5499.9939	PASS	5499.995	PASS
30	120	5500.0074	PASS	5500.0043	PASS	5500.0042	PASS	5500.0073	PASS
20	120	5499.9987	PASS	5499.9982	PASS	5499.9985	PASS	5499.9997	PASS
10	120	5499.9791	PASS	5499.9798	PASS	5499.9809	PASS	5499.9789	PASS
0	120	5500.0111	PASS	5500.0135	PASS	5500.0121	PASS	5500.0107	PASS
-10	120	5499.9912	PASS	5499.9875	PASS	5499.9875	PASS	5499.99	PASS
-20	120	5500.0081	PASS	5500.0077	PASS	5500.0075	PASS	5500.0052	PASS
-30	120	5499.9775	PASS	5499.9747	PASS	5499.9745	PASS	5499.9728	PASS

Frequency Stability Versus Voltage									
Operating Frequency: 5500MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5499.9984	PASS	5499.999	PASS	5499.9983	PASS	5500.0007	PASS
	120	5499.9987	PASS	5499.9982	PASS	5499.9985	PASS	5499.9997	PASS
	102	5499.9991	PASS	5499.9972	PASS	5499.9977	PASS	5499.9995	PASS

5G traffic radio (Radio 2)

Frequency Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
60	120	5259.992	PASS	5259.9914	PASS	5259.992	PASS	5259.992	PASS
50	120	5260.0098	PASS	5260.0095	PASS	5260.013	PASS	5260.0105	PASS
40	120	5259.9961	PASS	5259.9942	PASS	5259.9983	PASS	5259.9968	PASS
30	120	5260.011	PASS	5260.0112	PASS	5260.0112	PASS	5260.0114	PASS
20	120	5260.0128	PASS	5260.0114	PASS	5260.0121	PASS	5260.0135	PASS
10	120	5260.0093	PASS	5260.0055	PASS	5260.0057	PASS	5260.0067	PASS
0	120	5259.9792	PASS	5259.9789	PASS	5259.9803	PASS	5259.9805	PASS
-10	120	5260.0046	PASS	5260.0066	PASS	5260.0048	PASS	5260.005	PASS
-20	120	5259.9791	PASS	5259.9763	PASS	5259.9759	PASS	5259.981	PASS
-30	120	5260.013	PASS	5260.0107	PASS	5260.0112	PASS	5260.0131	PASS

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5260.0136	PASS	5260.0114	PASS	5260.0127	PASS	5260.0145	PASS
	120	5260.0128	PASS	5260.0114	PASS	5260.0121	PASS	5260.0135	PASS
	102	5260.0123	PASS	5260.0118	PASS	5260.0129	PASS	5260.0138	PASS

5G traffic radio (Radio 3)

Frequency Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
60	120	5260.0066	PASS	5260.0087	PASS	5260.0094	PASS	5260.0064	PASS
50	120	5259.9852	PASS	5259.9838	PASS	5259.9828	PASS	5259.9857	PASS
40	120	5259.9856	PASS	5259.9838	PASS	5259.9851	PASS	5259.9842	PASS
30	120	5260	PASS	5259.9978	PASS	5259.9973	PASS	5259.9964	PASS
20	120	5260.0162	PASS	5260.0138	PASS	5260.0149	PASS	5260.0127	PASS
10	120	5260.0088	PASS	5260.01	PASS	5260.0085	PASS	5260.0068	PASS
0	120	5259.9804	PASS	5259.981	PASS	5259.9774	PASS	5259.9792	PASS
-10	120	5259.9815	PASS	5259.9796	PASS	5259.9816	PASS	5259.9783	PASS
-20	120	5259.9838	PASS	5259.9824	PASS	5259.9806	PASS	5259.9821	PASS
-30	120	5260.012	PASS	5260.0135	PASS	5260.0103	PASS	5260.0101	PASS

Frequency Stability Versus Voltage									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5260.0155	PASS	5260.0138	PASS	5260.0154	PASS	5260.012	PASS
	120	5260.0162	PASS	5260.0138	PASS	5260.0149	PASS	5260.0127	PASS
	102	5260.017	PASS	5260.0148	PASS	5260.0148	PASS	5260.0125	PASS

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

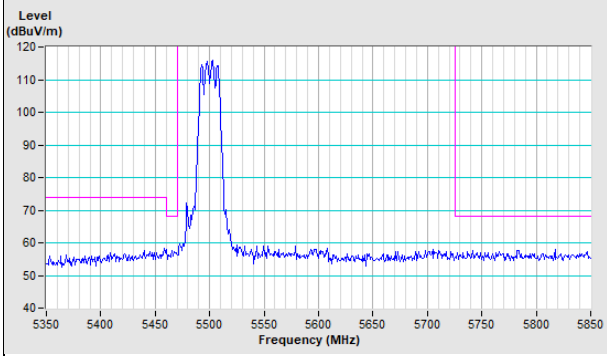
Annex A - Band Edge Measurement

5G traffic radio (Radio 1)

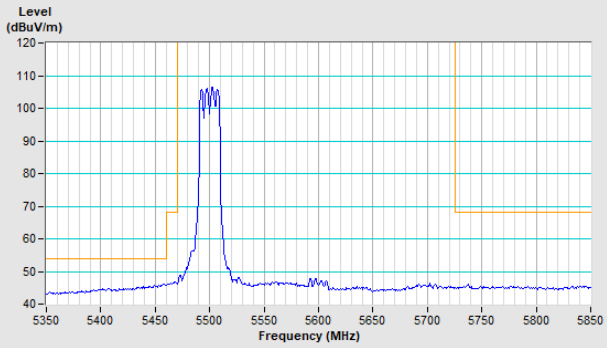
802.11a

802.11a Channel 100

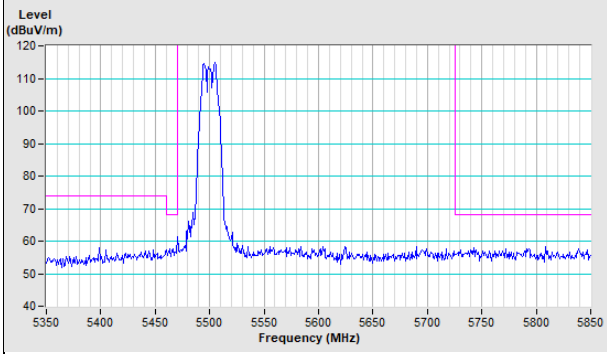
Horizontal (Peak)



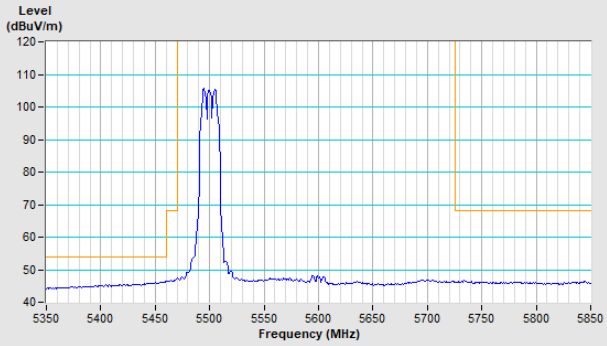
Horizontal (Average)



Vertical (Peak)

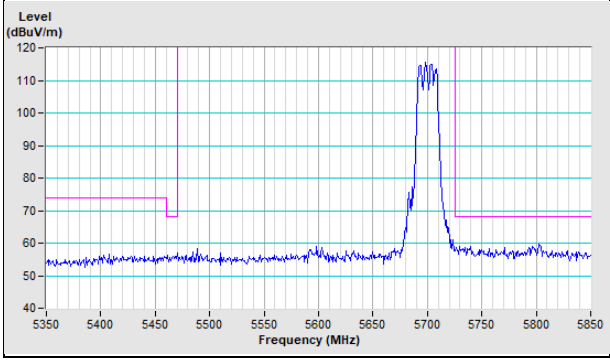


Vertical (Average)

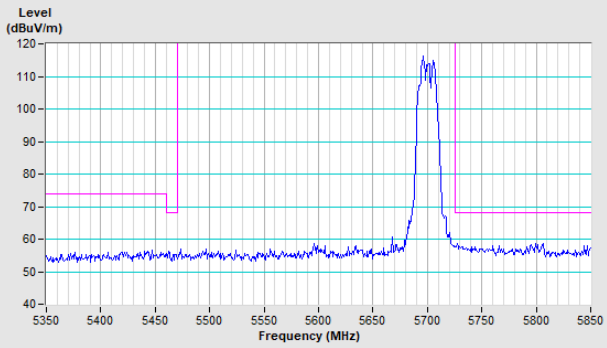


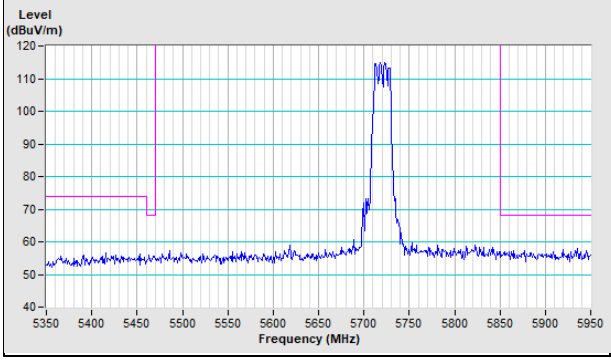
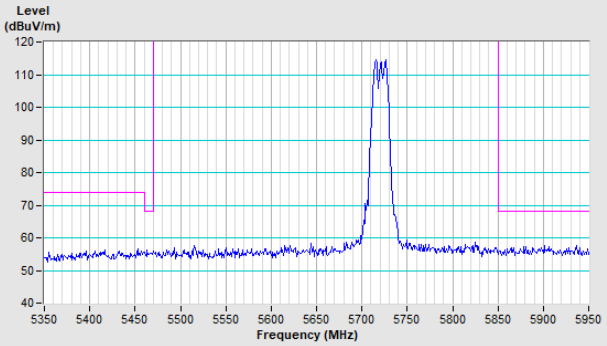
802.11a Channel 140

Horizontal (Peak)



Vertical (Peak)

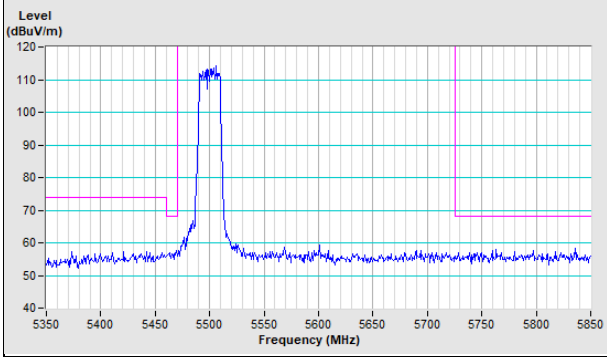


802.11a Channel 144	
Horizontal (Peak)	**Vertical (Peak)**
	

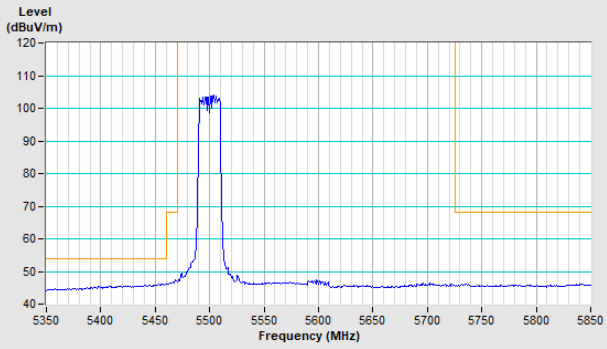
802.11ax (HE20)

802.11ax (HE20) Channel 100

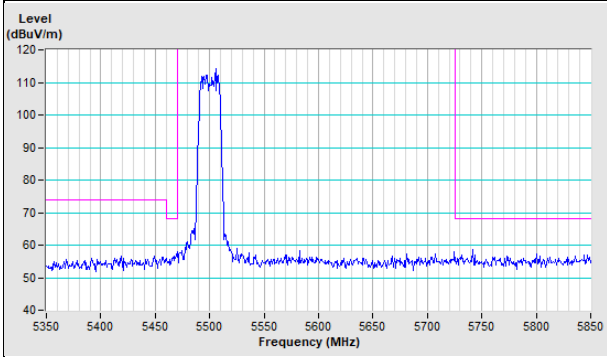
Horizontal (Peak)



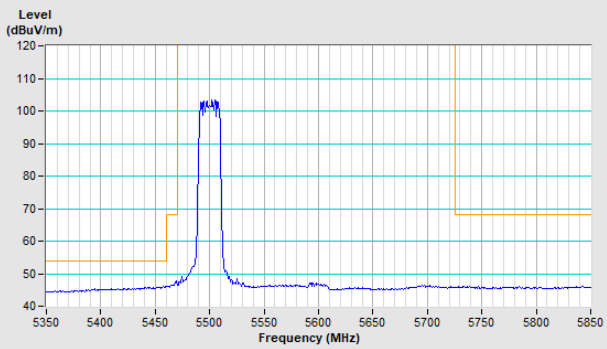
Horizontal (Average)



Vertical (Peak)

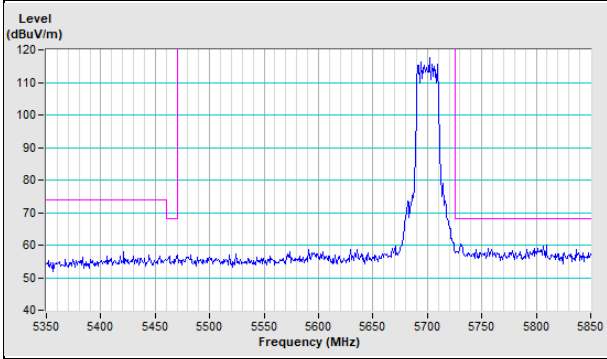


Vertical (Average)

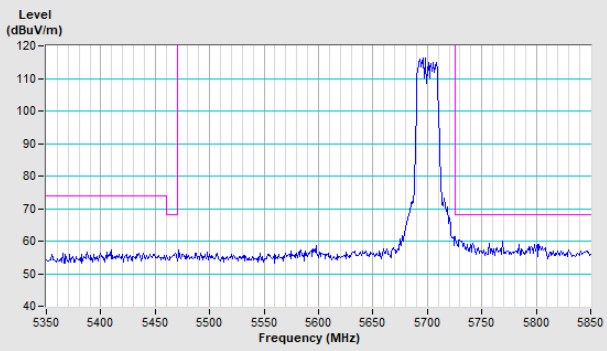


802.11ax (HE20) Channel 140

Horizontal (Peak)

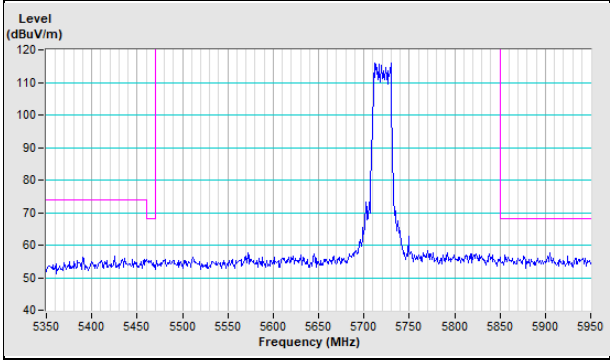


Vertical (Peak)

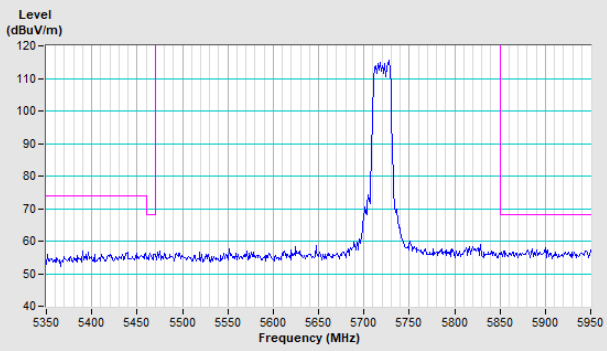


802.11ax (HE20) Channel 144

Horizontal (Peak)



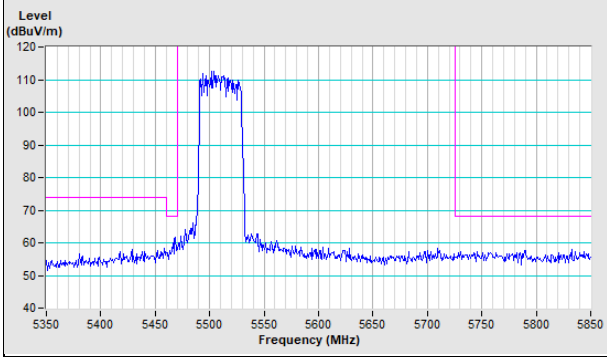
Vertical (Peak)



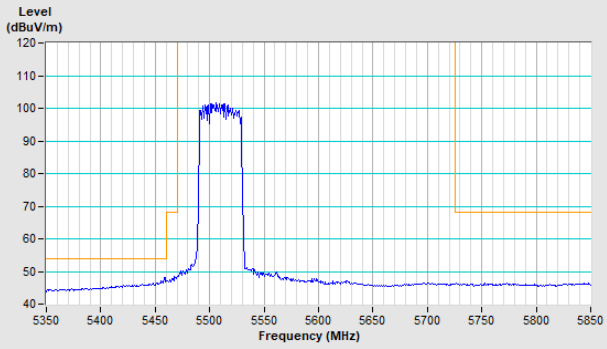
802.11ax (HE40)

802.11ax (HE40) Channel 102

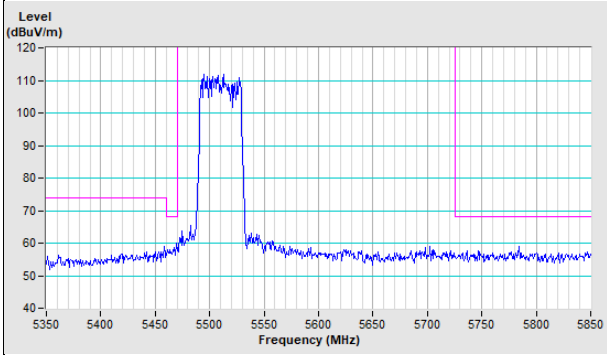
Horizontal (Peak)



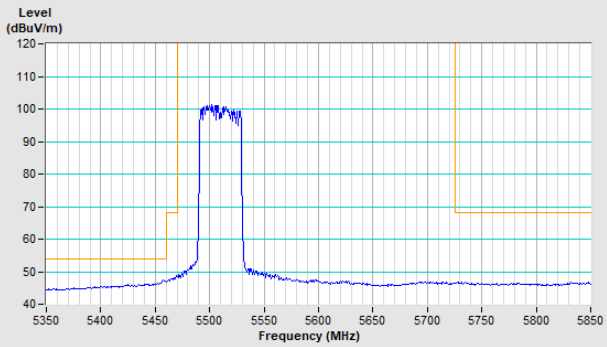
Horizontal (Average)



Vertical (Peak)

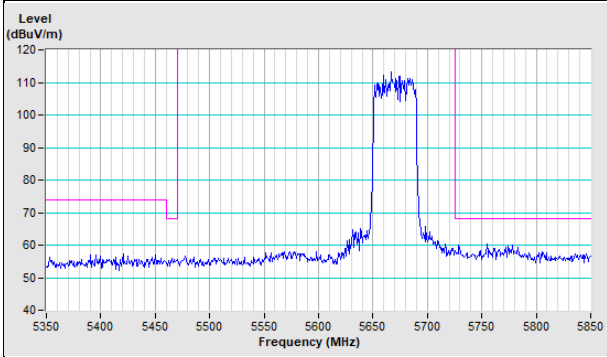


Vertical (Average)

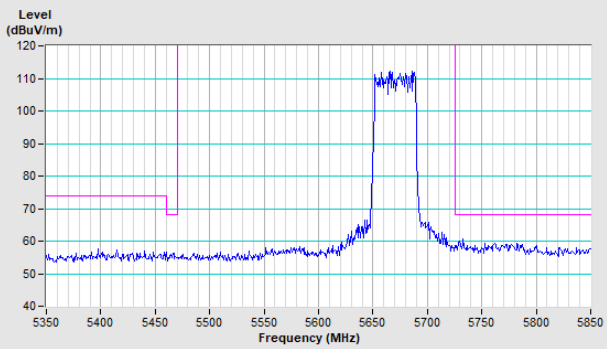


802.11ax (HE40) Channel 134

Horizontal (Peak)

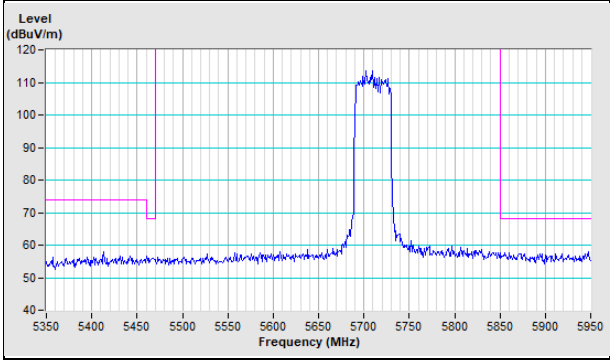


Vertical (Peak)

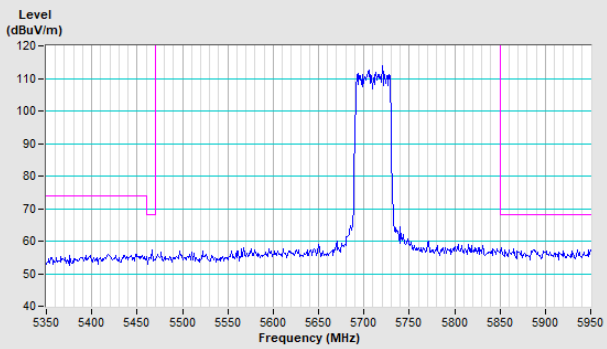


802.11ax (HE40) Channel 142

Horizontal (Peak)



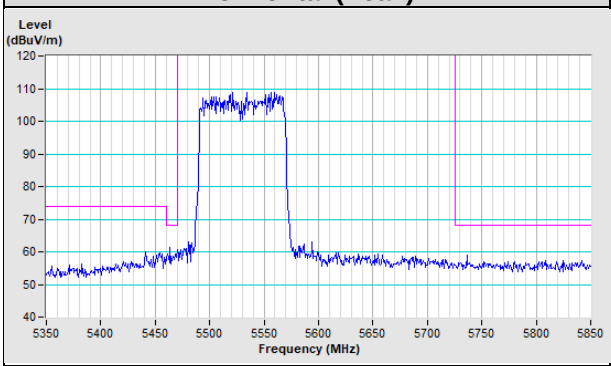
Vertical (Peak)



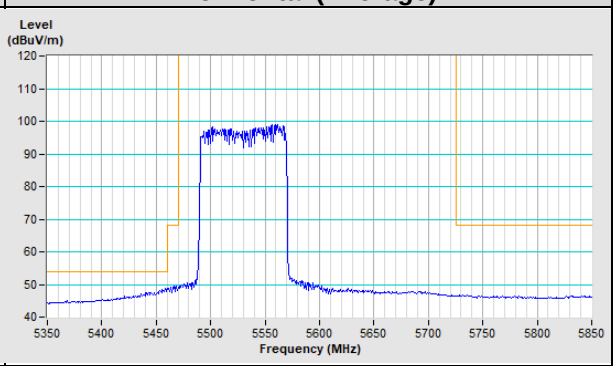
802.11ax (HE80)

802.11ax (HE80) Channel 106

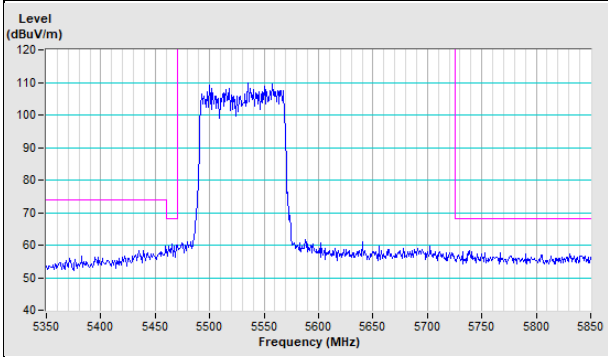
Horizontal (Peak)



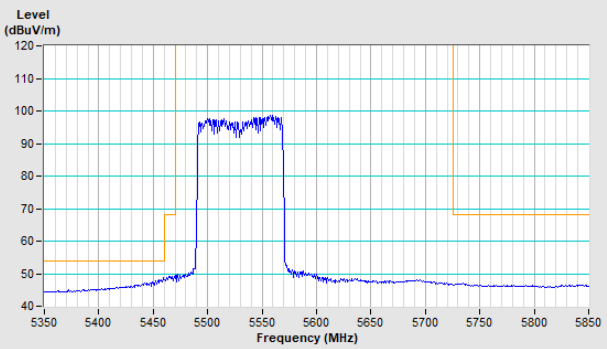
Horizontal (Average)



Vertical (Peak)

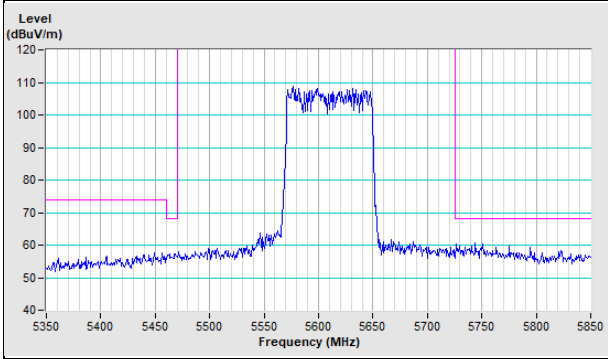


Vertical (Average)

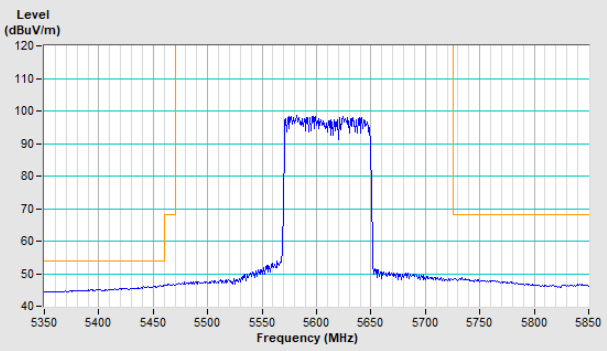


802.11ax (HE80) Channel 122

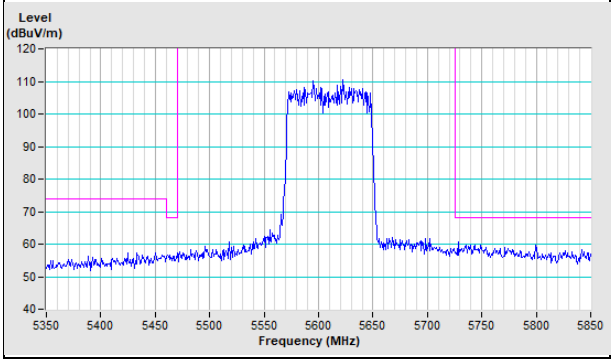
Horizontal (Peak)



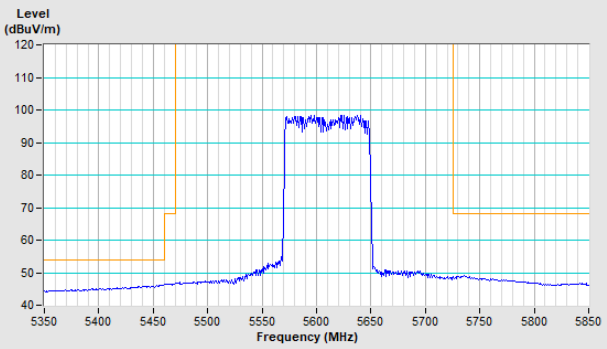
Horizontal (Average)

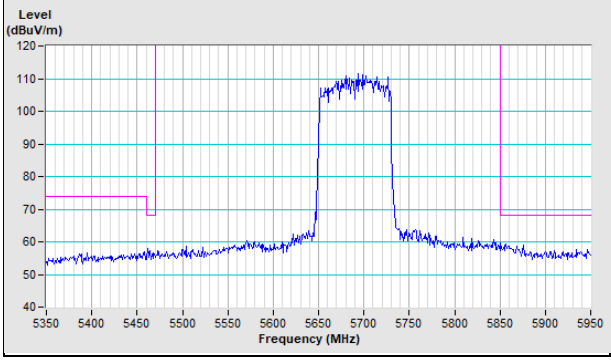
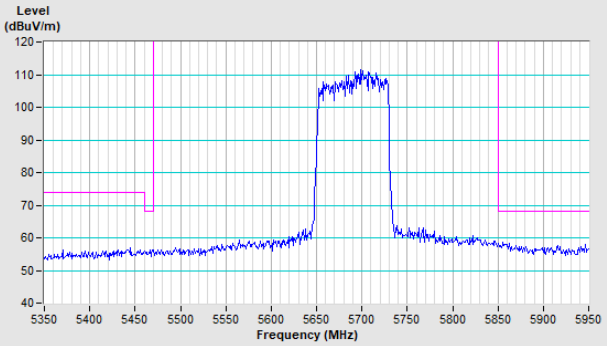


Vertical (Peak)



Vertical (Average)



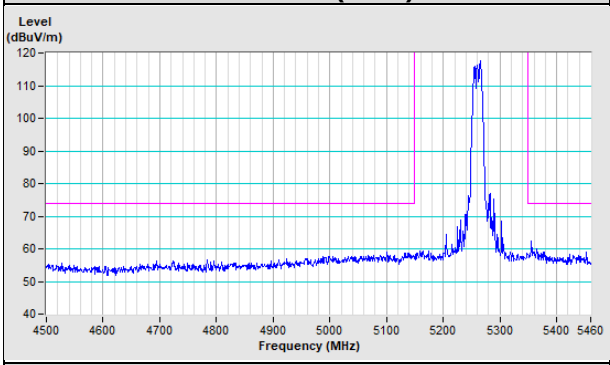
802.11ax (HE80) Channel 138	
Horizontal (Peak)	**Vertical (Peak)**
	

5G traffic radio (Radio 2)

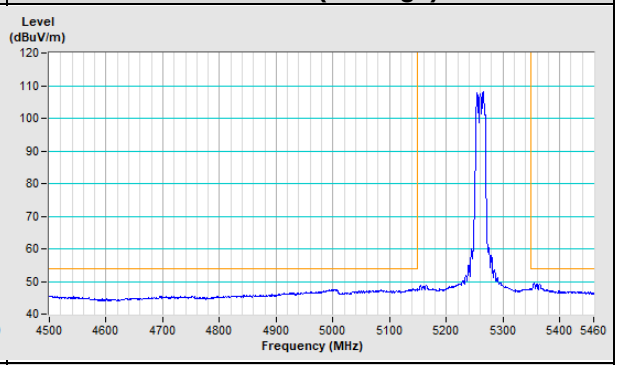
802.11a

802.11a Channel 52

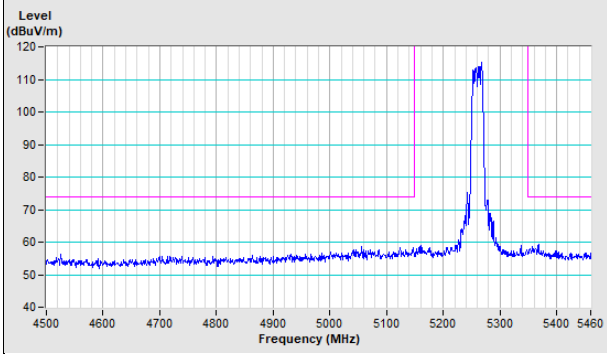
Horizontal (Peak)



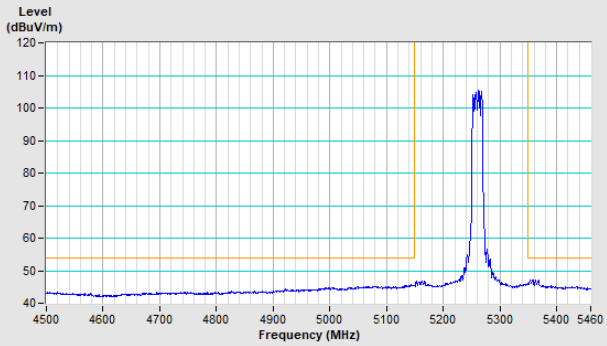
Horizontal (Average)



Vertical (Peak)

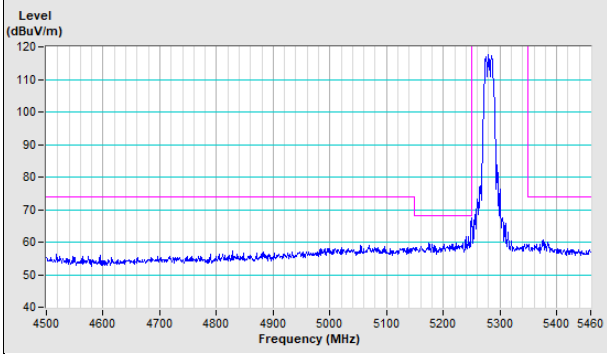


Vertical (Average)

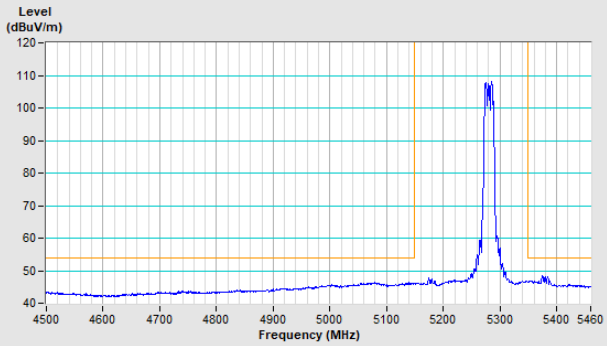


802.11a Channel 56

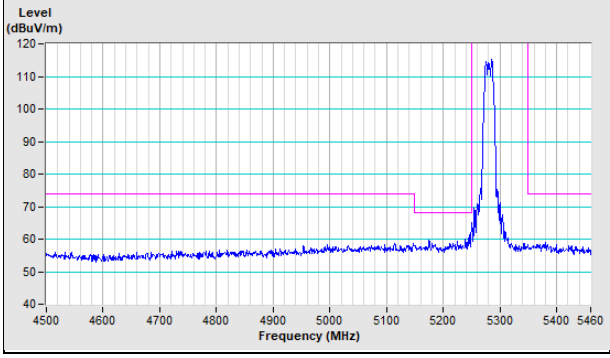
Horizontal (Peak)



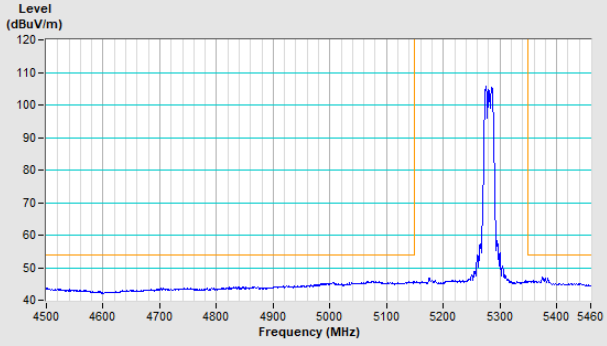
Horizontal (Average)



Vertical (Peak)

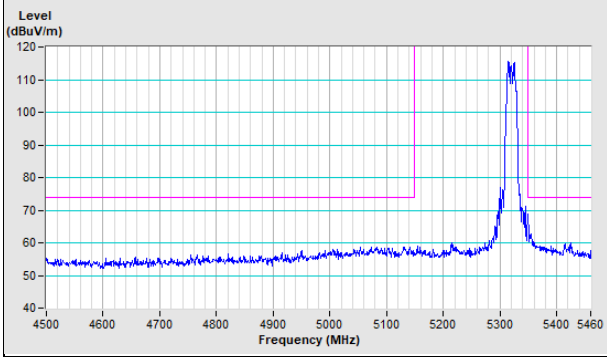


Vertical (Average)

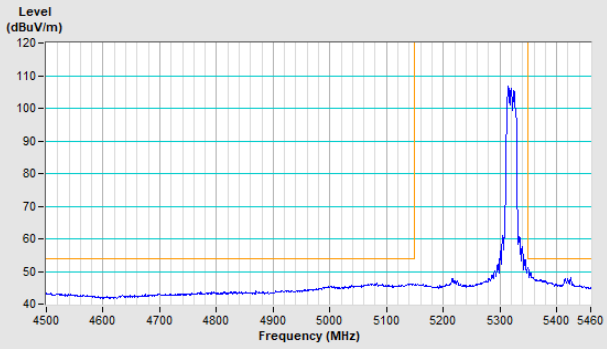


802.11a Channel 64

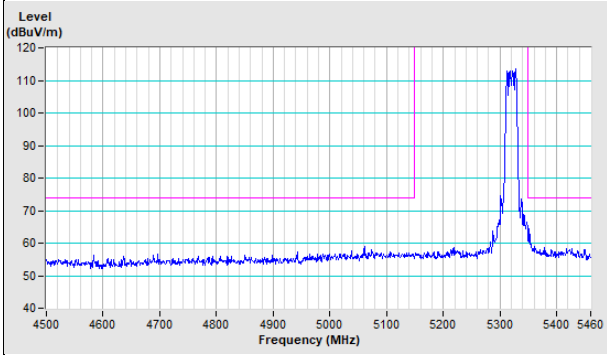
Horizontal (Peak)



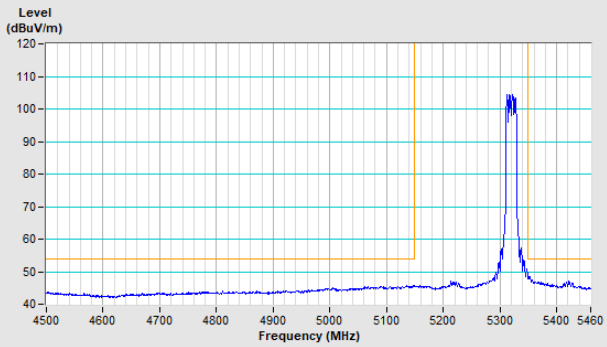
Horizontal (Average)



Vertical (Peak)

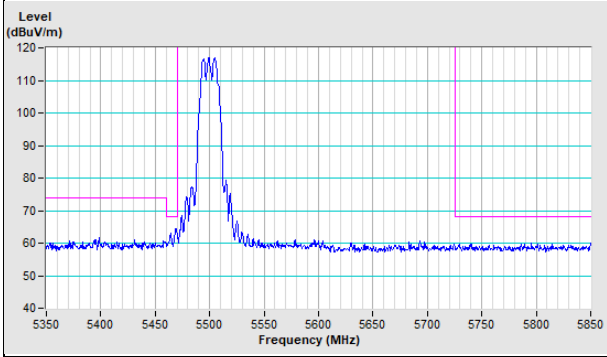


Vertical (Average)

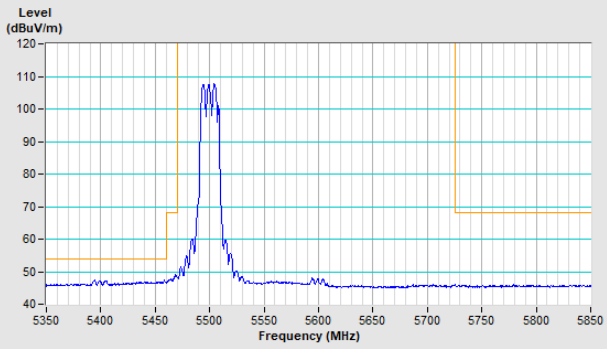


802.11a Channel 100

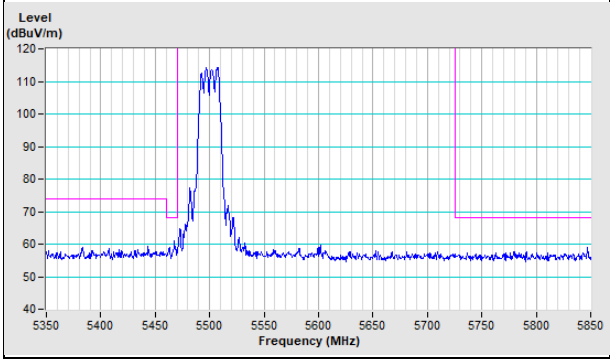
Horizontal (Peak)



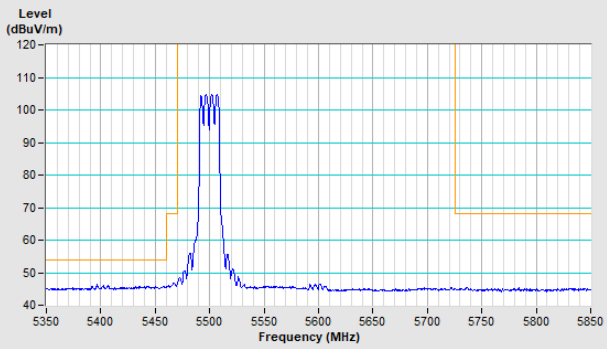
Horizontal (Average)

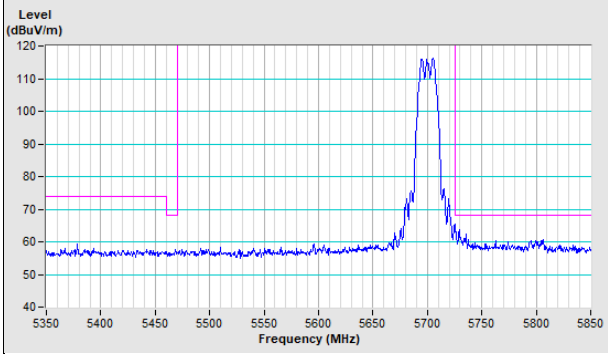
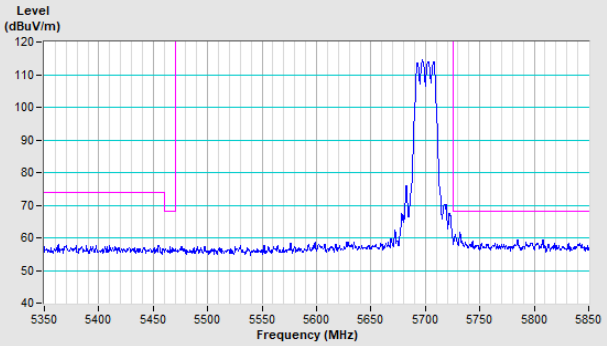
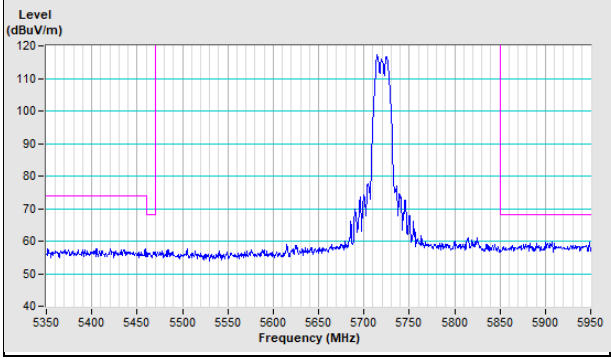
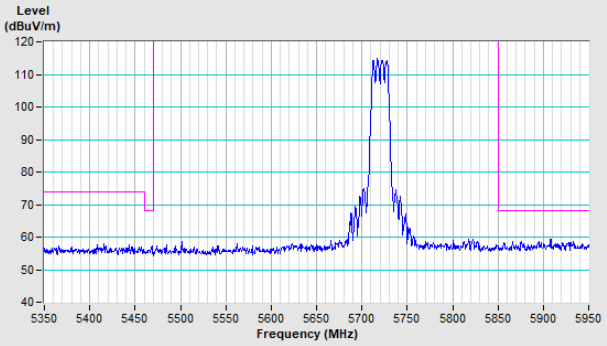


Vertical (Peak)



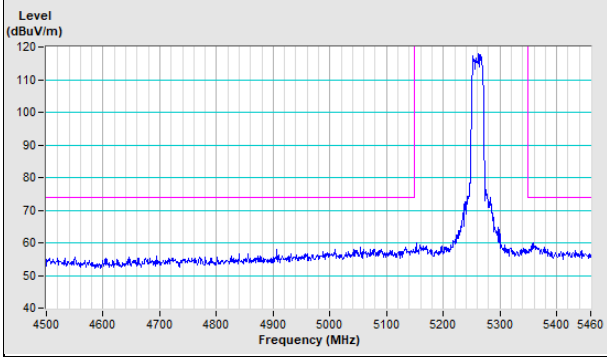
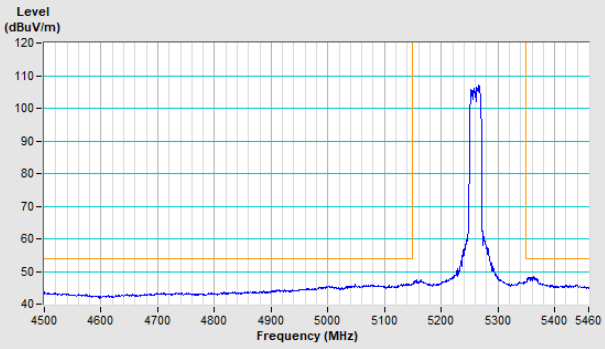
Vertical (Average)

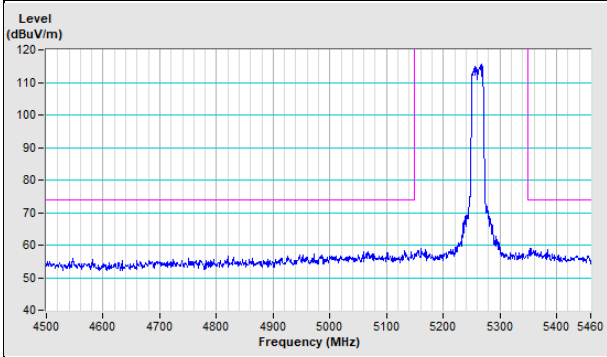
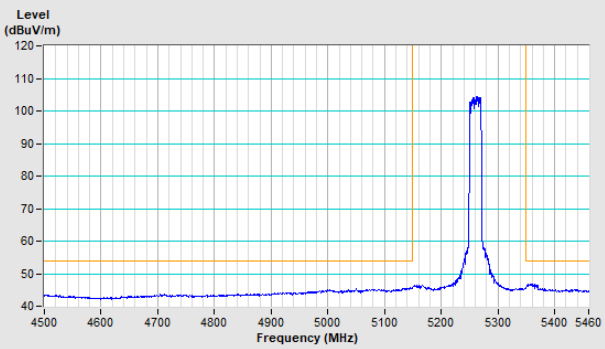


802.11a Channel 140	
Horizontal (Peak)	**Vertical (Peak)**
	
802.11a Channel 144	
Horizontal (Peak)	**Vertical (Peak)**
	

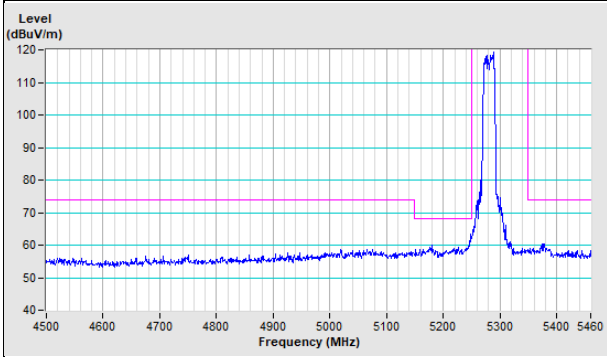
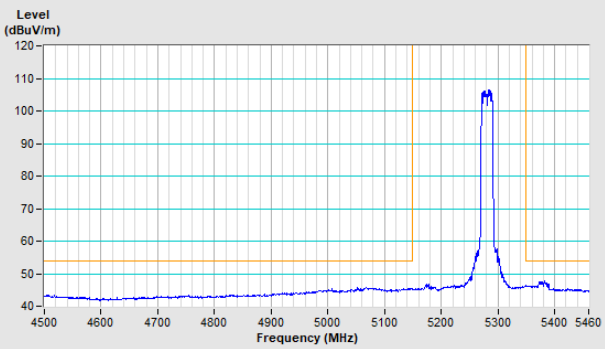
802.11ax (HE20)

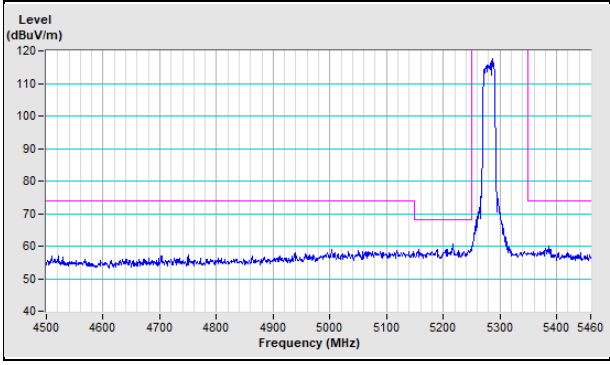
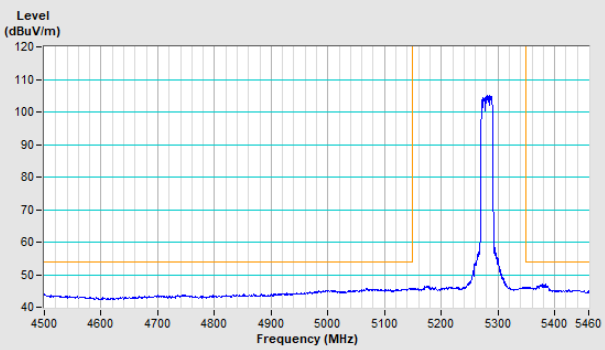
802.11ax (HE20) Channel 52

Horizontal (Peak)	Horizontal (Average)
	

Vertical (Peak)	Vertical (Average)
	

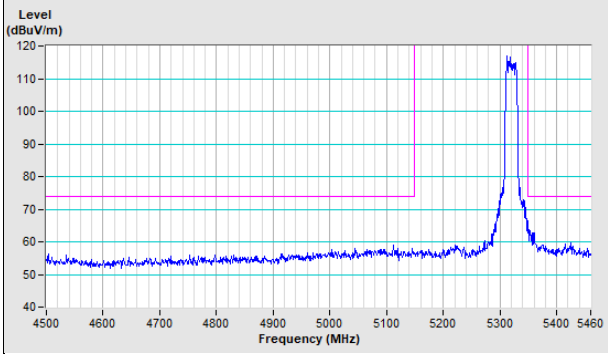
802.11ax (HE20) Channel 56

Horizontal (Peak)	Horizontal (Average)
	

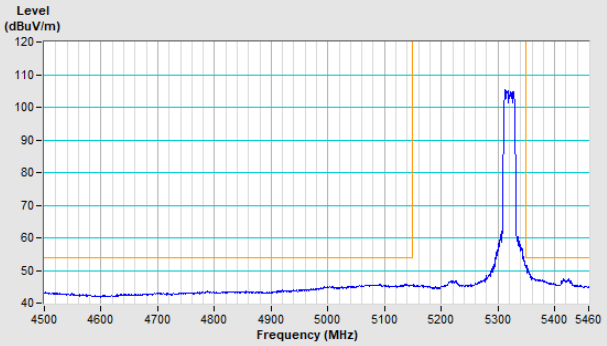
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE20) Channel 64

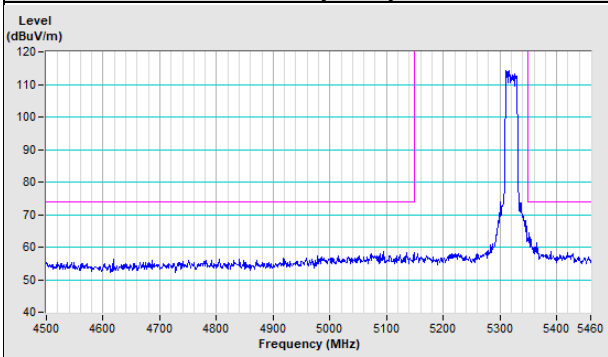
Horizontal (Peak)



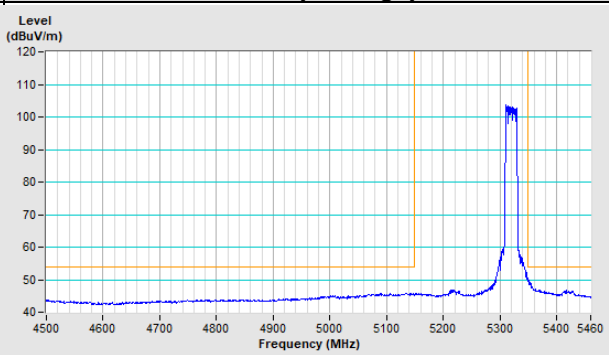
Horizontal (Average)



Vertical (Peak)

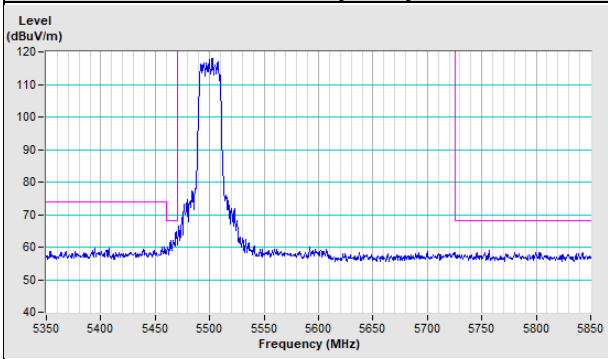


Vertical (Average)

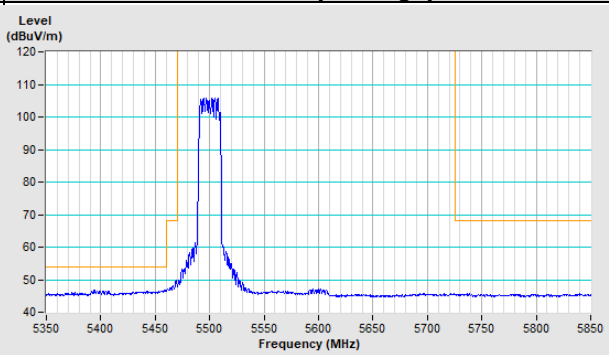


802.11ax (HE20) Channel 100

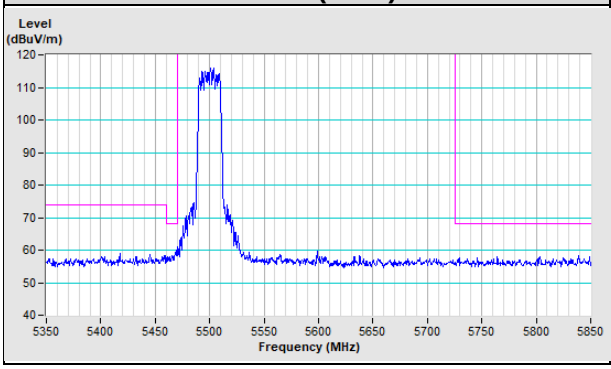
Horizontal (Peak)



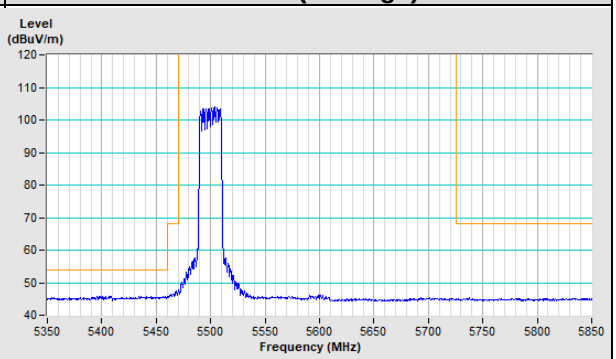
Horizontal (Average)

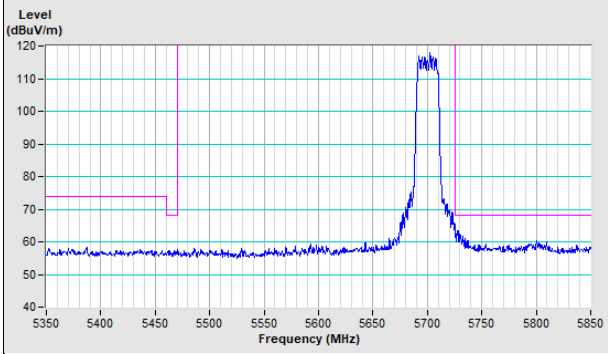
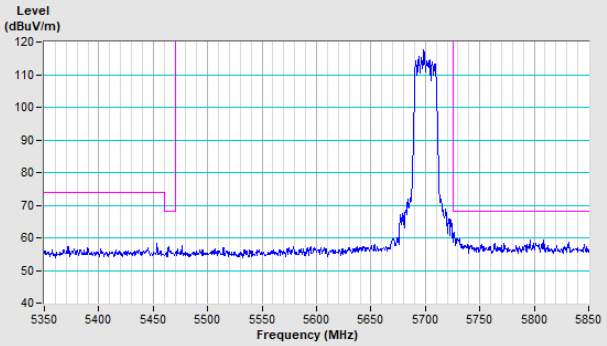
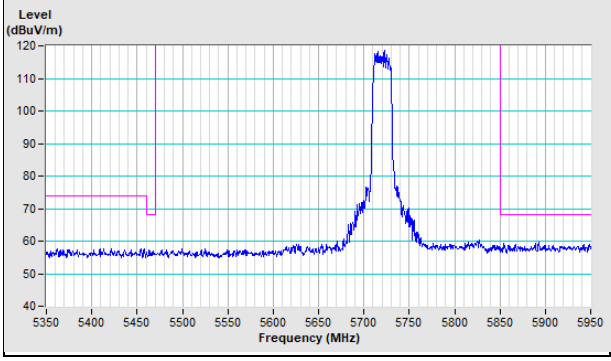
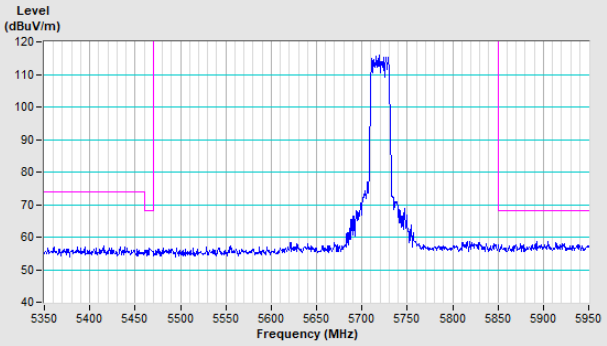


Vertical (Peak)



Vertical (Average)

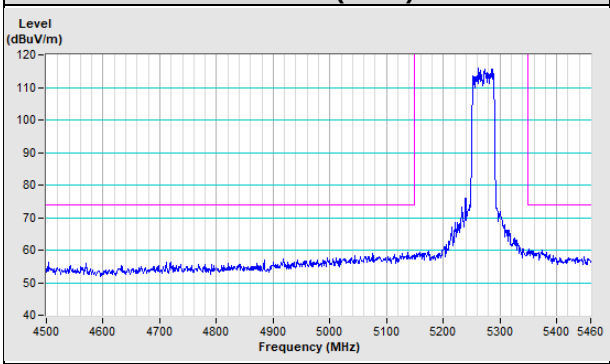


802.11ax (HE20) Channel 140	
Horizontal (Peak)	**Vertical (Peak)**
	
802.11ax (HE20) Channel 144	
Horizontal (Peak)	**Vertical (Peak)**
	

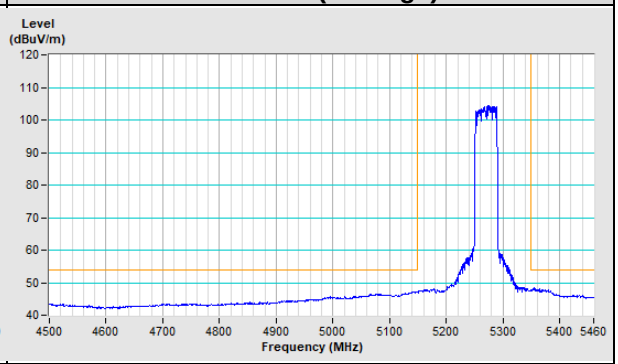
802.11ax (HE40)

802.11ax (HE40) Channel 54

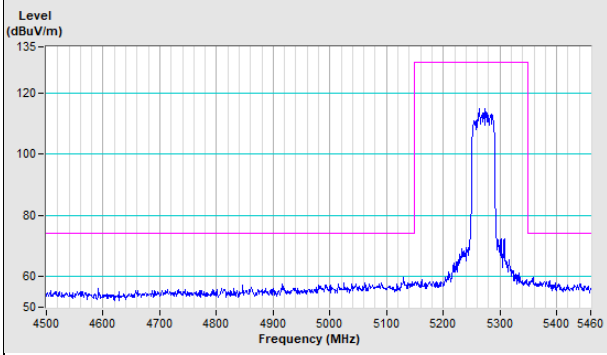
Horizontal (Peak)



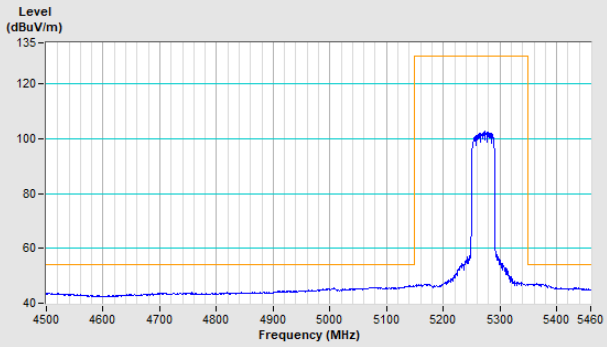
Horizontal (Average)



Vertical (Peak)

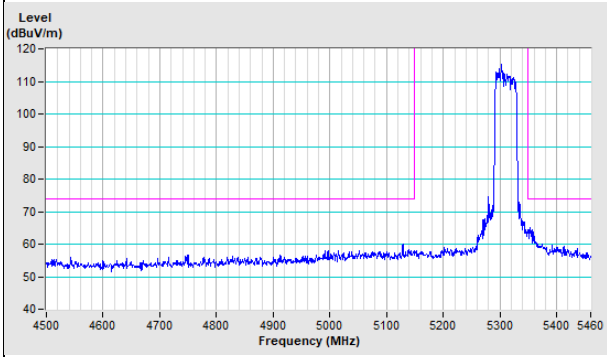


Vertical (Average)

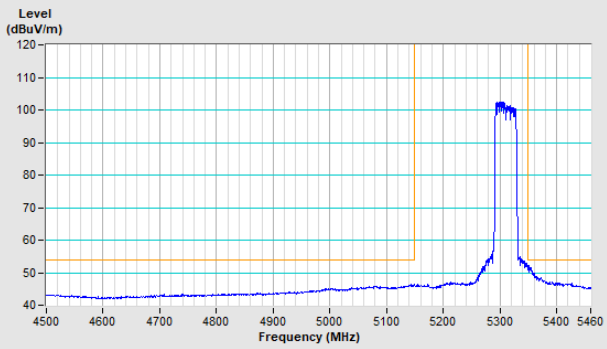


802.11ax (HE40) Channel 62

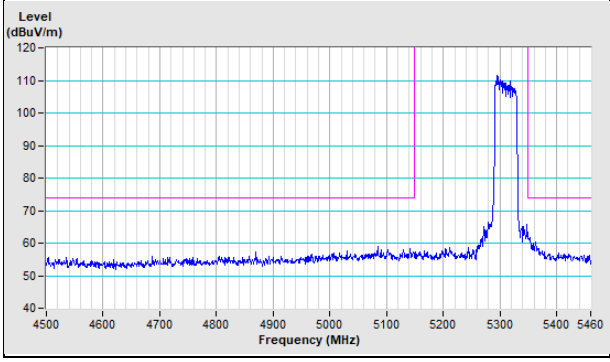
Horizontal (Peak)



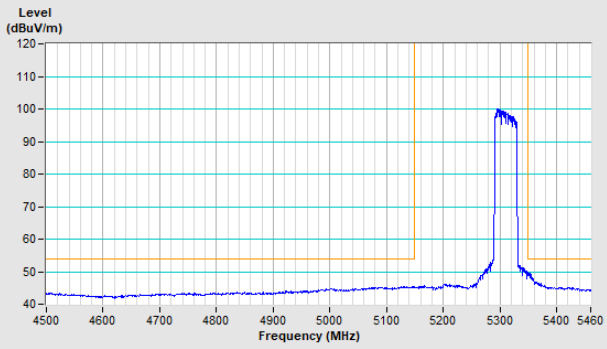
Horizontal (Average)



Vertical (Peak)

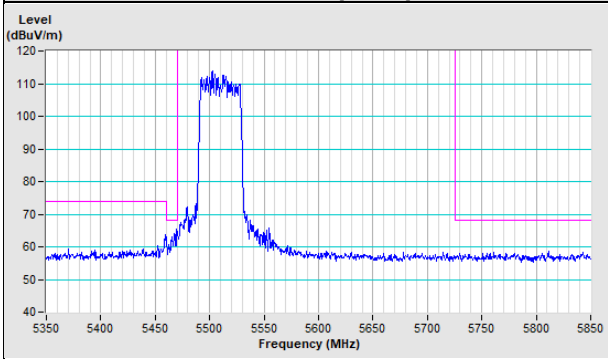


Vertical (Average)

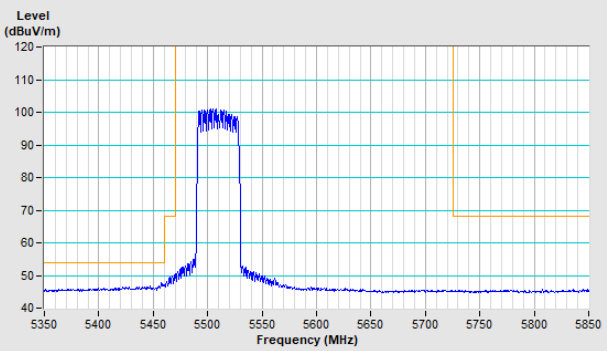


802.11ax (HE40) Channel 102

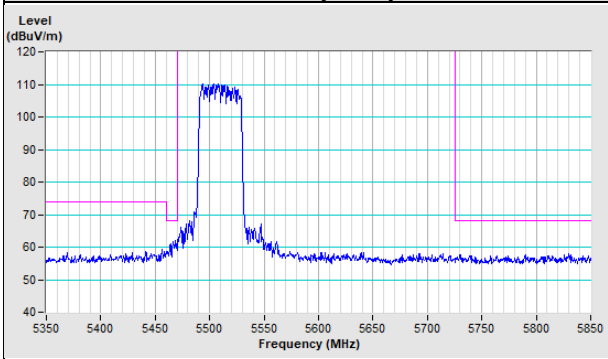
Horizontal (Peak)



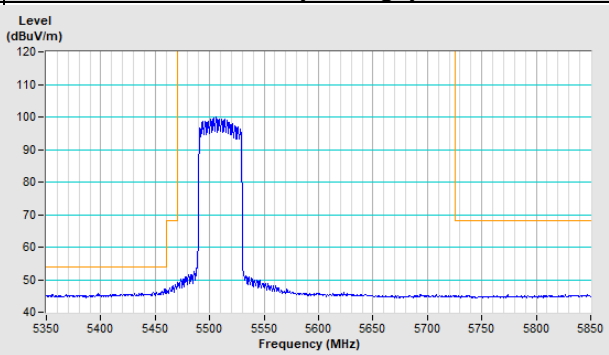
Horizontal (Average)



Vertical (Peak)

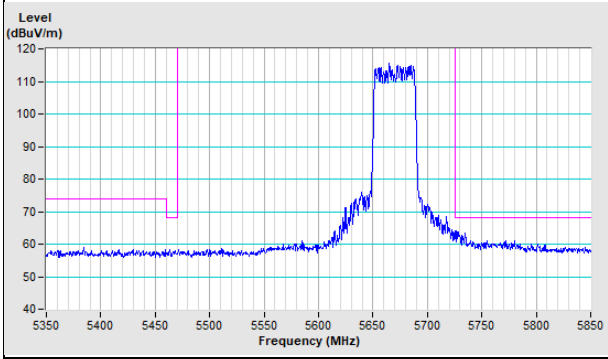


Vertical (Average)

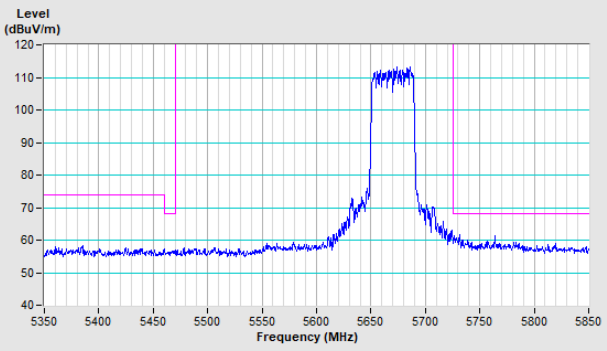


802.11ax (HE40) Channel 134

Horizontal (Peak)

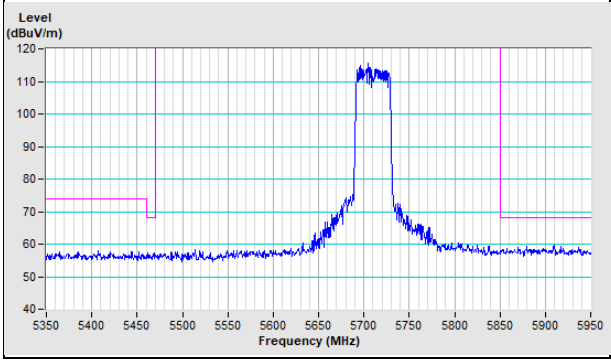


Vertical (Peak)

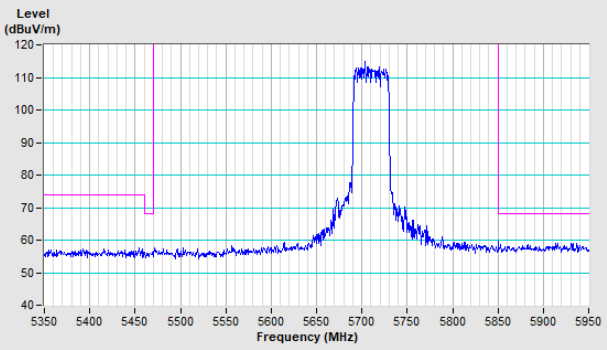


802.11ax (HE40) Channel 142

Horizontal (Peak)



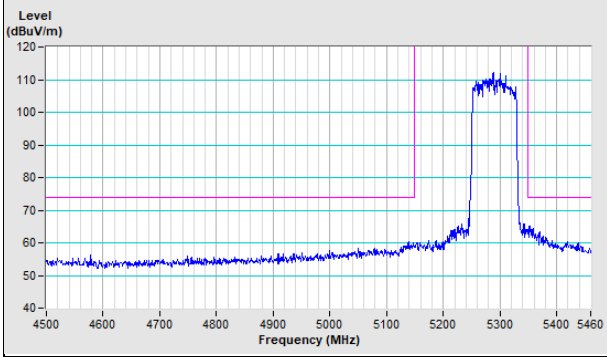
Vertical (Peak)



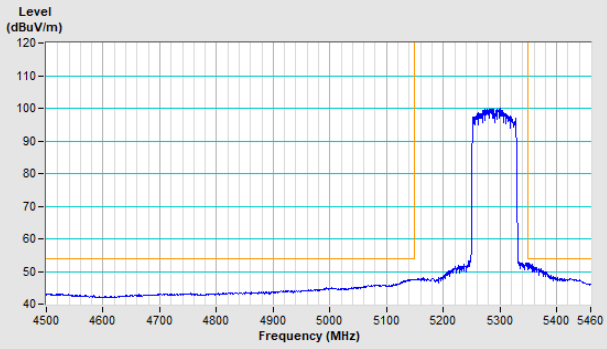
802.11ax (HE80)

802.11ax (HE80) Channel 58

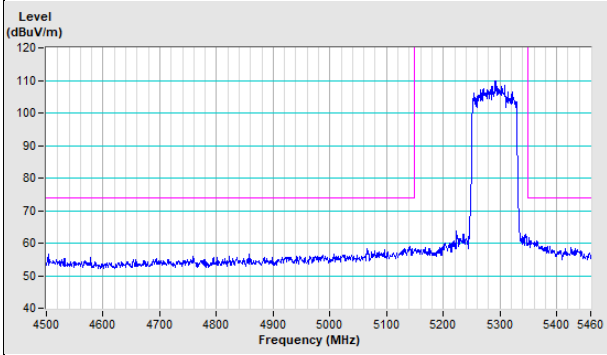
Horizontal (Peak)



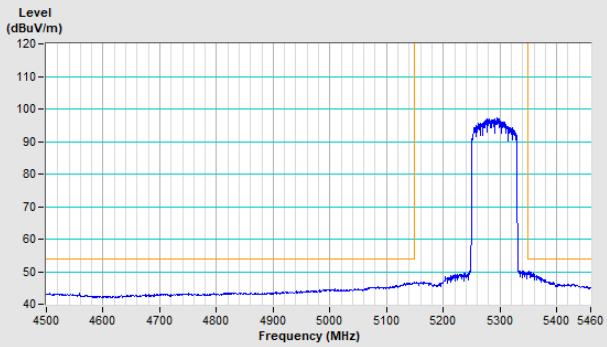
Horizontal (Average)



Vertical (Peak)

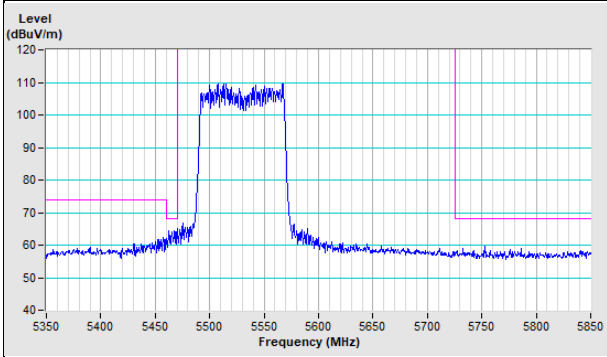


Vertical (Average)

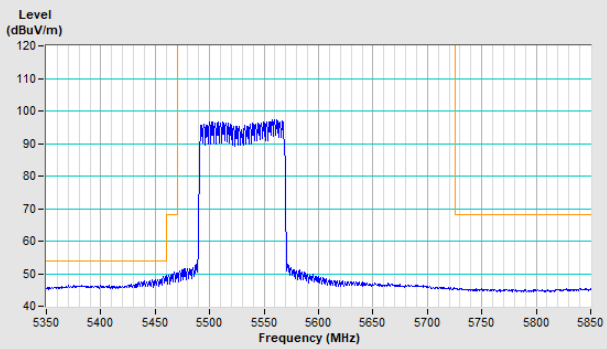


802.11ax (HE80) Channel 106

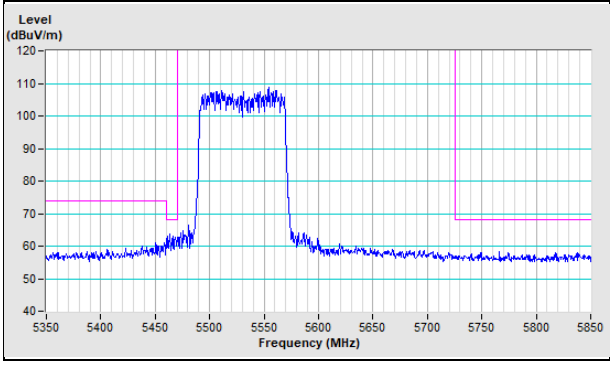
Horizontal (Peak)



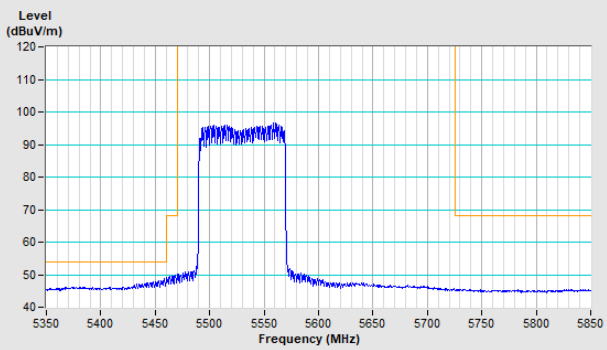
Horizontal (Average)

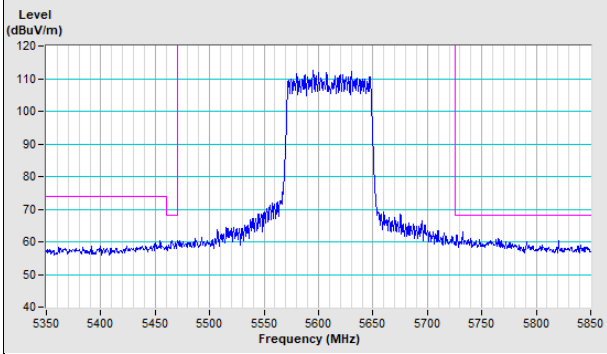
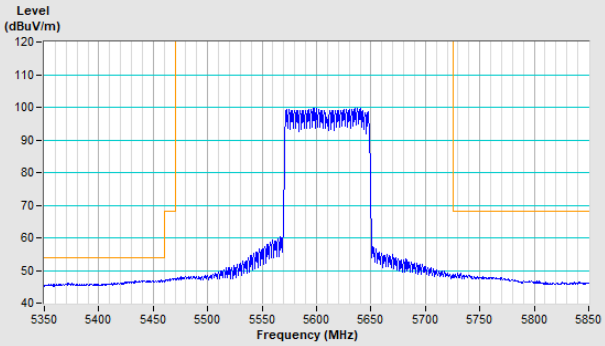
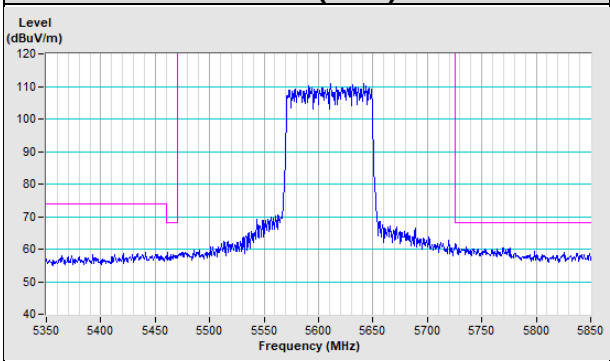
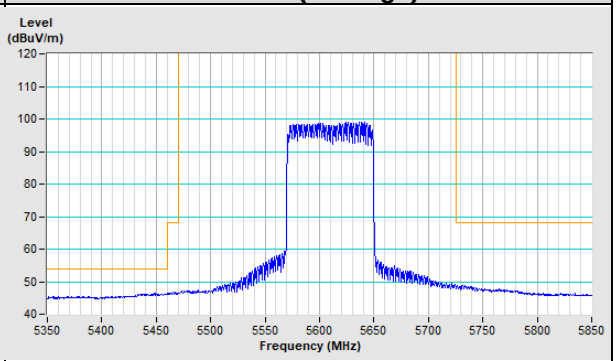
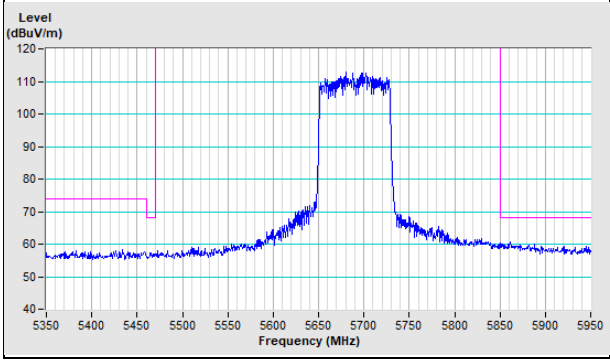
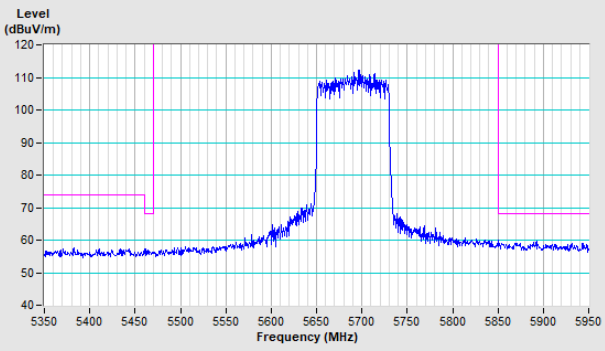


Vertical (Peak)



Vertical (Average)



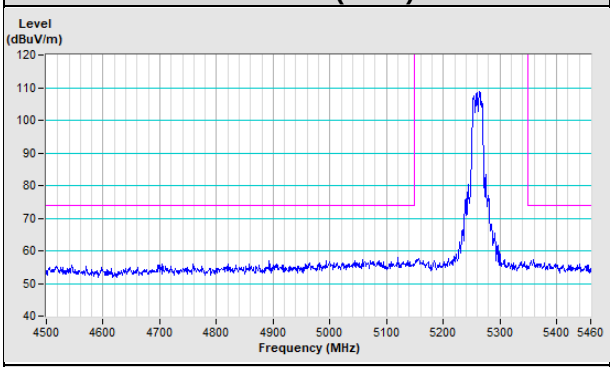
802.11ax (HE80) Channel 122	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE80) Channel 138	
Horizontal (Peak)	Vertical (Peak)
	

5G traffic radio (Radio 3)

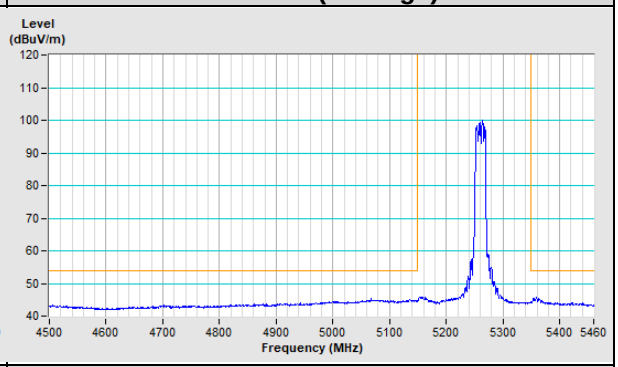
802.11a

802.11a Channel 52

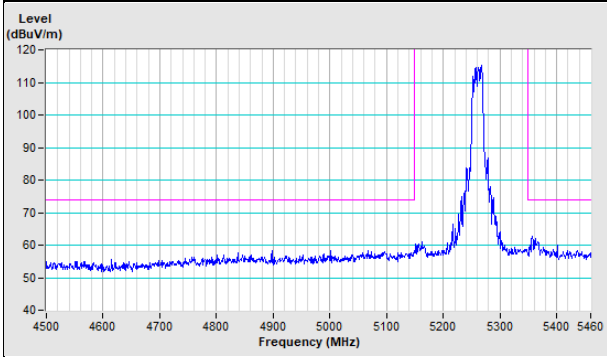
Horizontal (Peak)



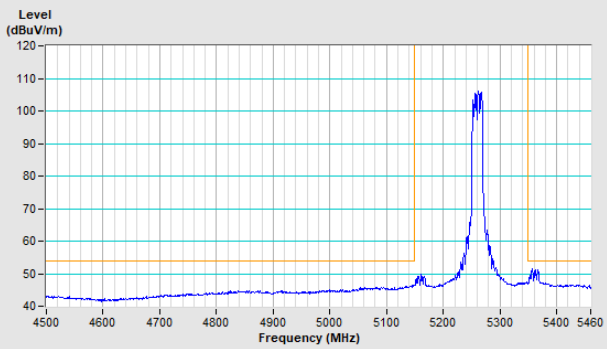
Horizontal (Average)



Vertical (Peak)

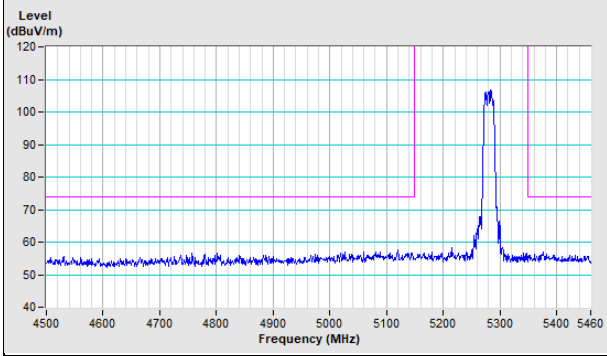


Vertical (Average)

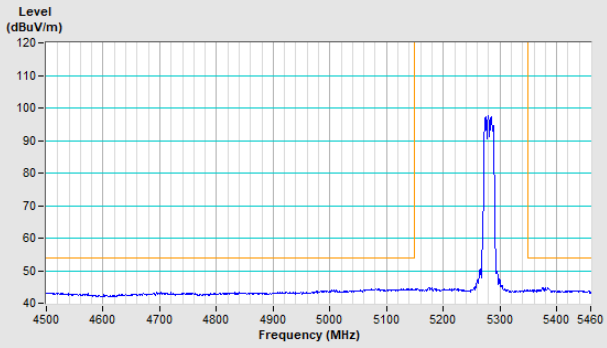


802.11a Channel 56

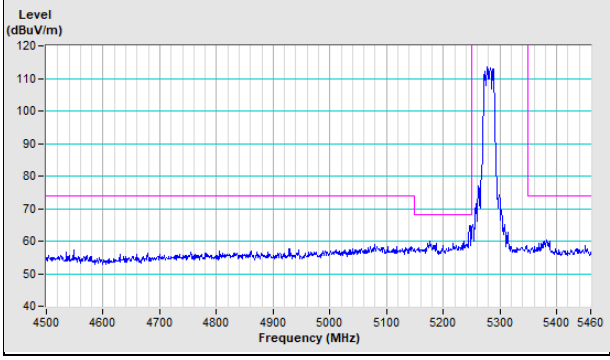
Horizontal (Peak)



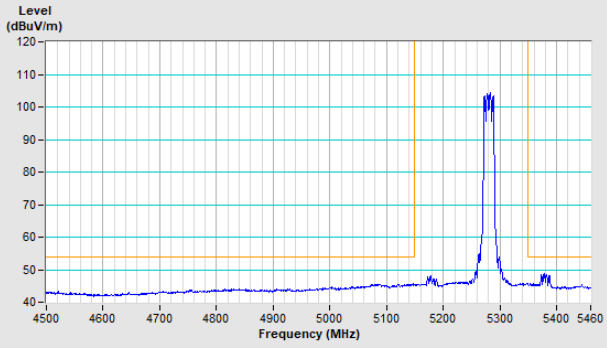
Horizontal (Average)



Vertical (Peak)

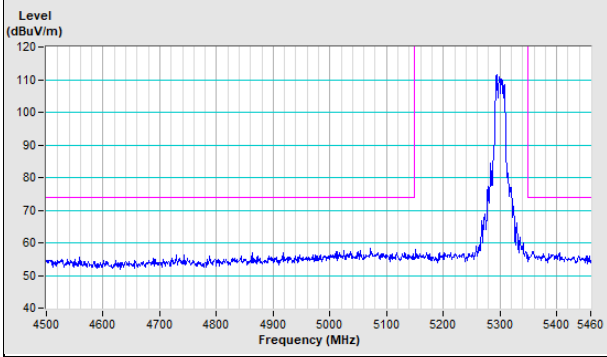


Vertical (Average)

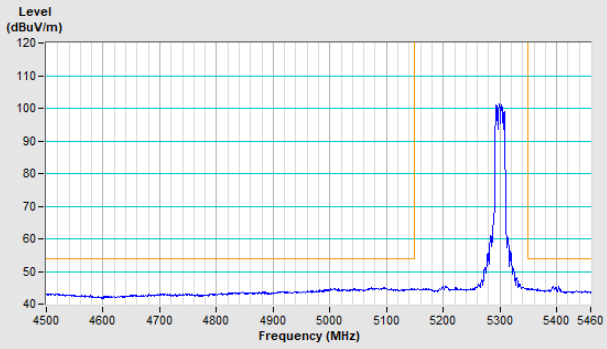


802.11a Channel 60

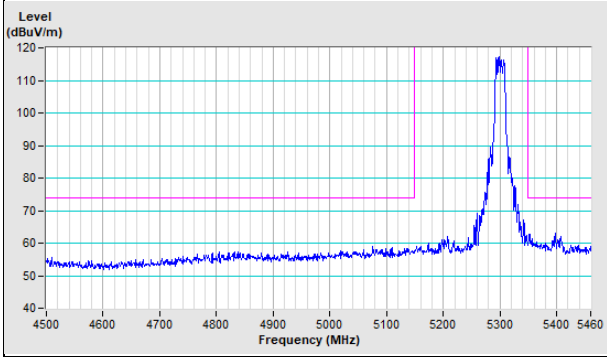
Horizontal (Peak)



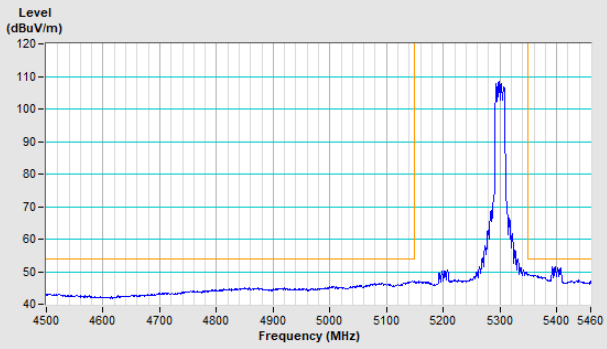
Horizontal (Average)



Vertical (Peak)

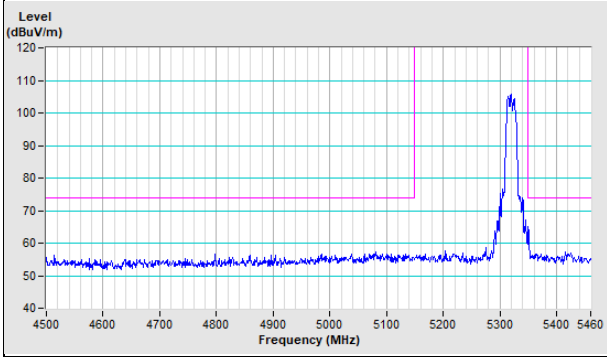


Vertical (Average)

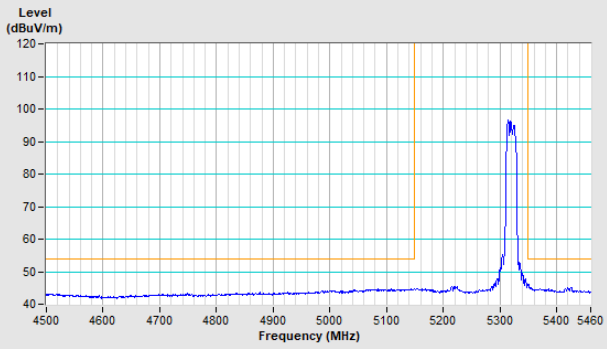


802.11a Channel 64

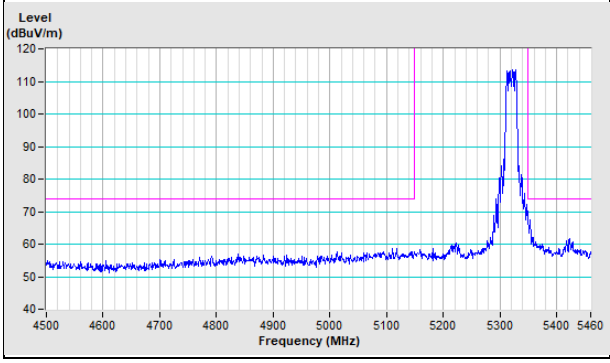
Horizontal (Peak)



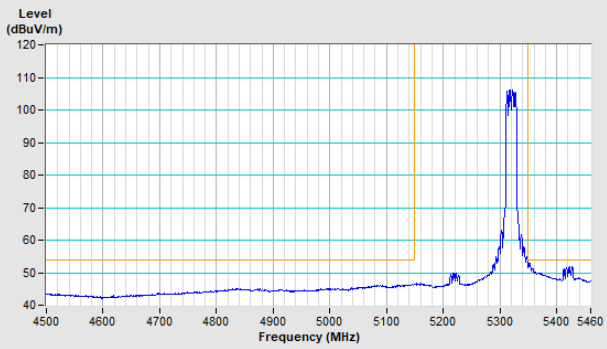
Horizontal (Average)



Vertical (Peak)

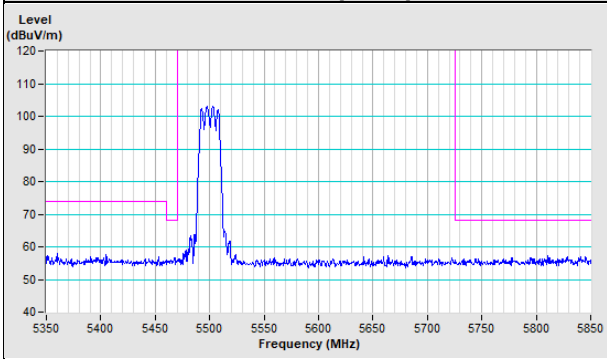


Vertical (Average)

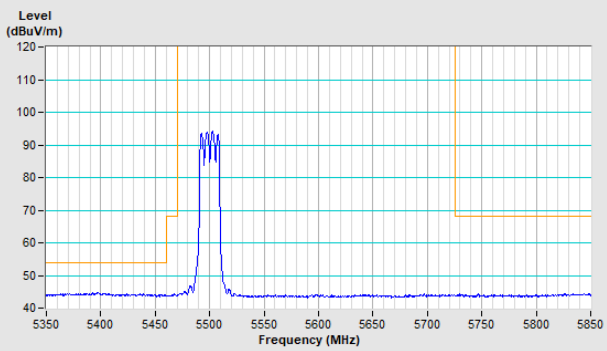


802.11a Channel 100

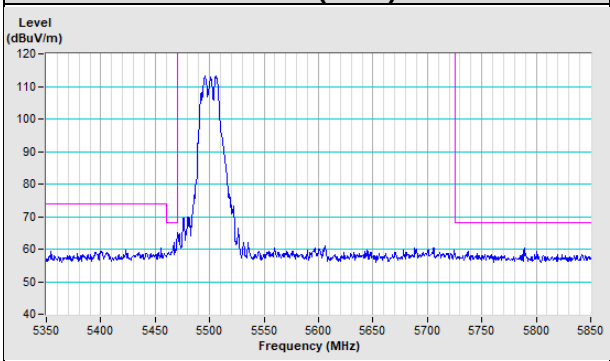
Horizontal (Peak)



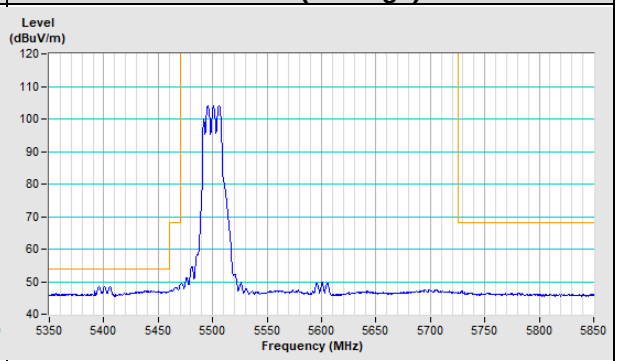
Horizontal (Average)



Vertical (Peak)

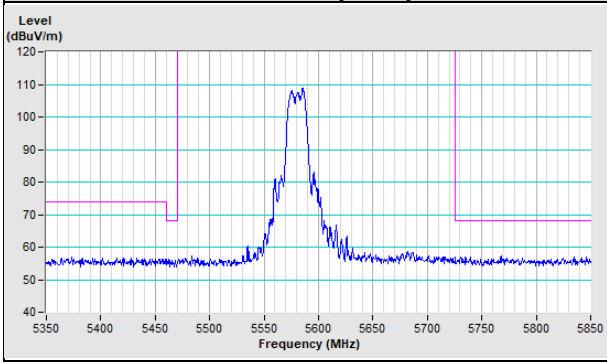


Vertical (Average)

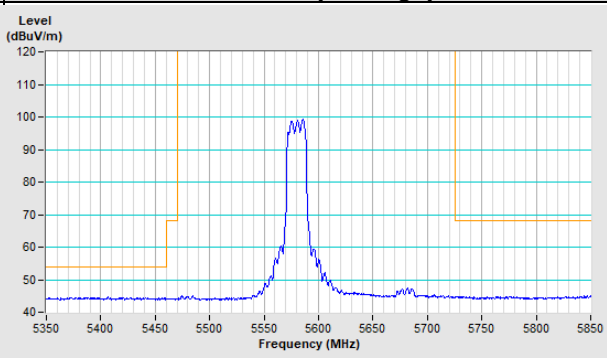


802.11a Channel 116

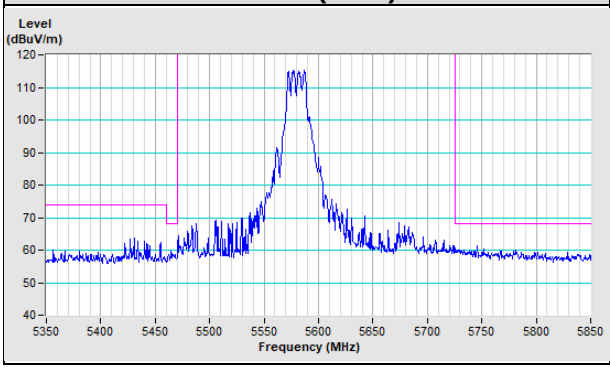
Horizontal (Peak)



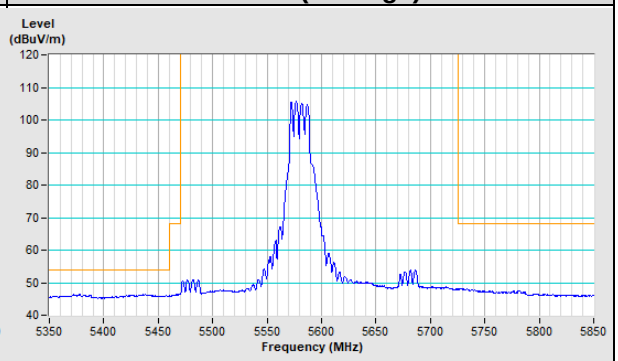
Horizontal (Average)

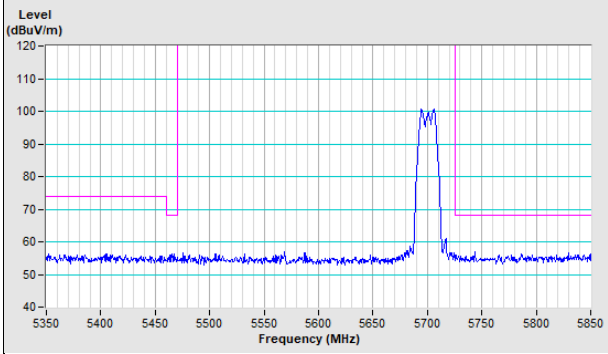
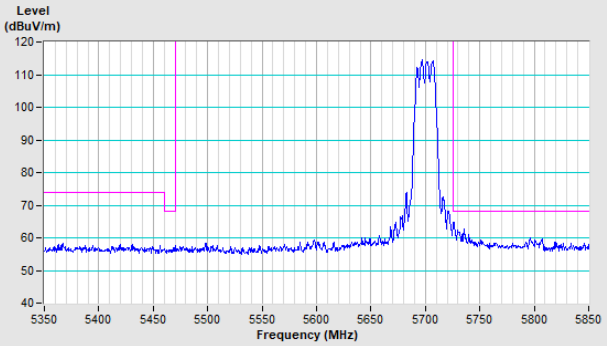
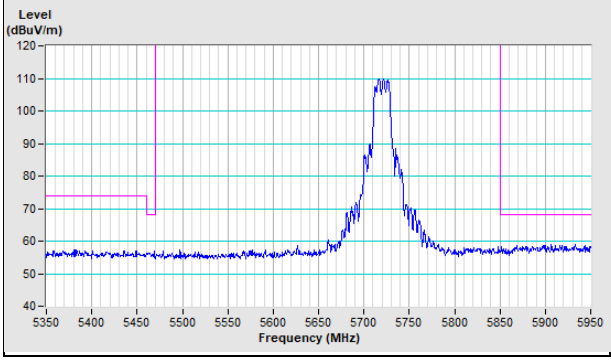
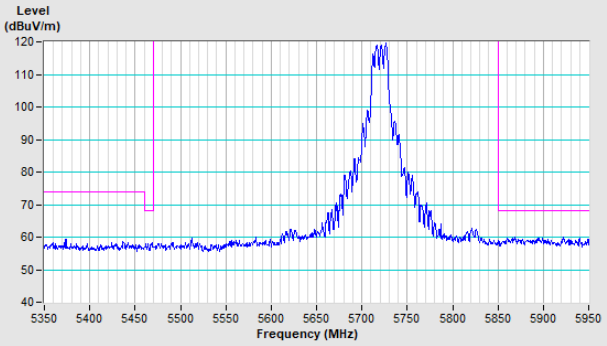


Vertical (Peak)



Vertical (Average)

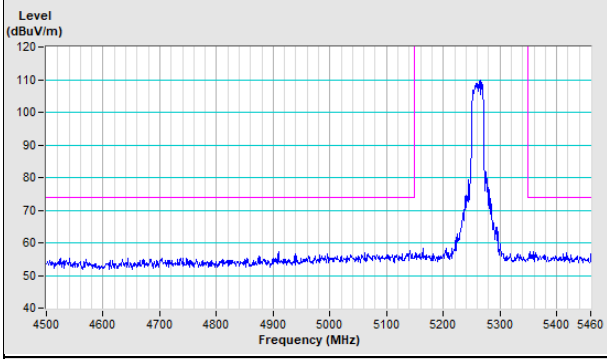


802.11a Channel 140	
Horizontal (Peak)	**Vertical (Peak)**
	
802.11a Channel 144	
Horizontal (Peak)	**Vertical (Peak)**
	

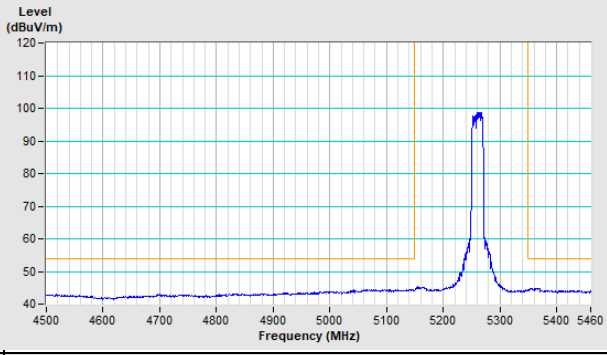
802.11ax (HE20)

802.11ax (HE20) Channel 52

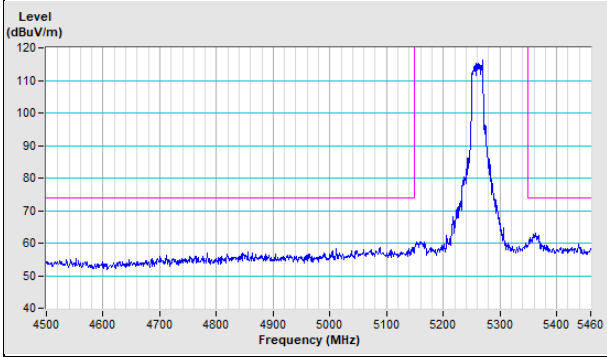
Horizontal (Peak)



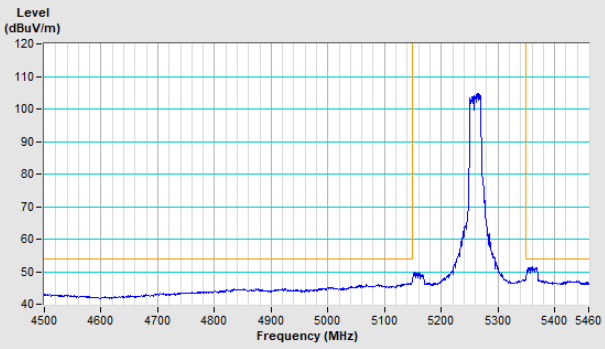
Horizontal (Average)



Vertical (Peak)

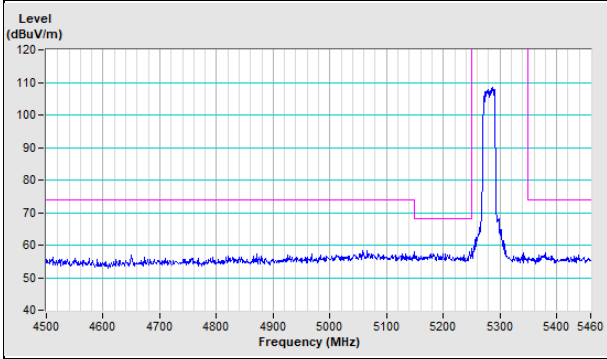


Vertical (Average)

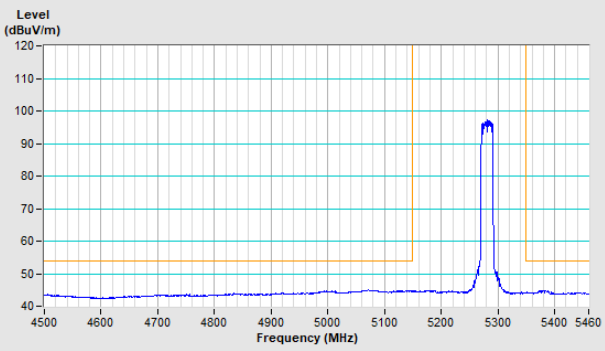


802.11ax (HE20) Channel 56

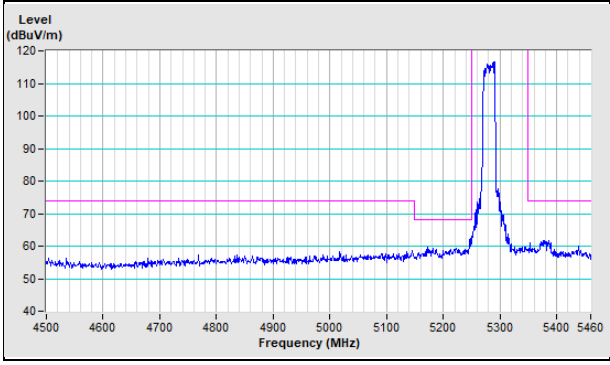
Horizontal (Peak)



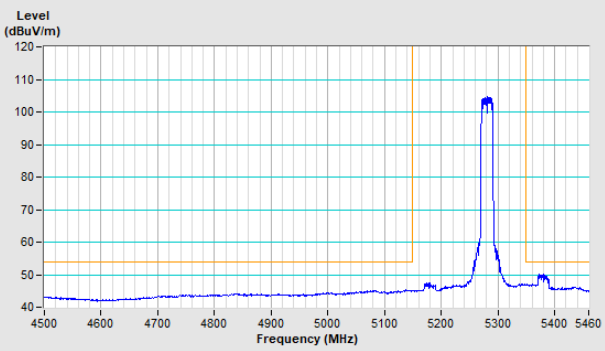
Horizontal (Average)

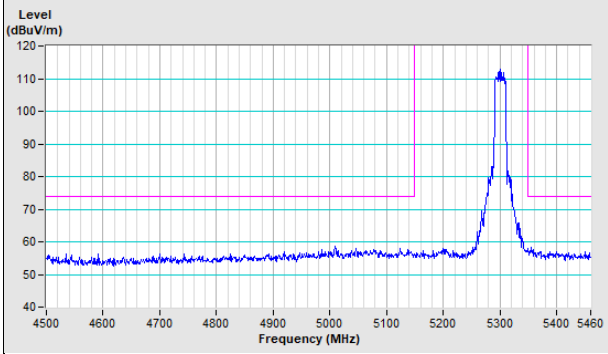
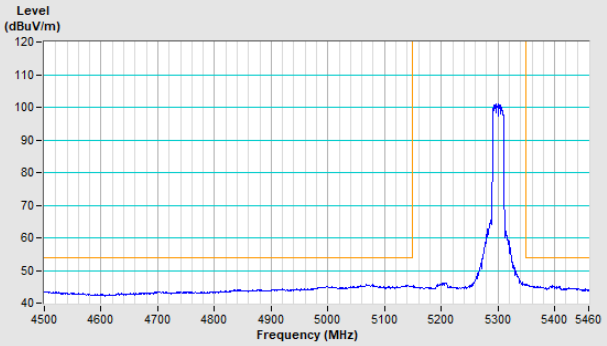
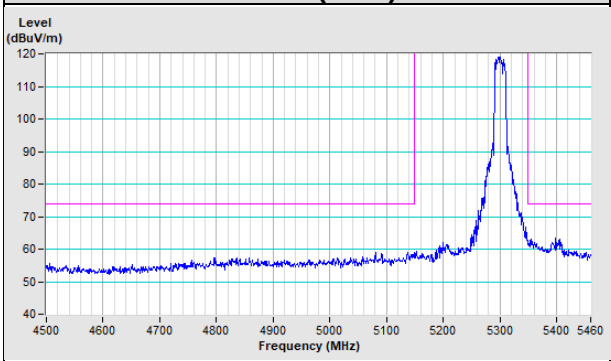
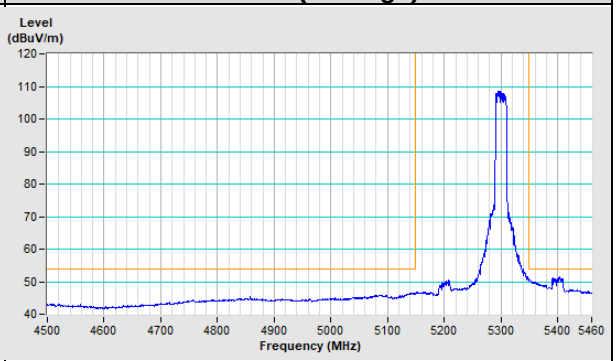
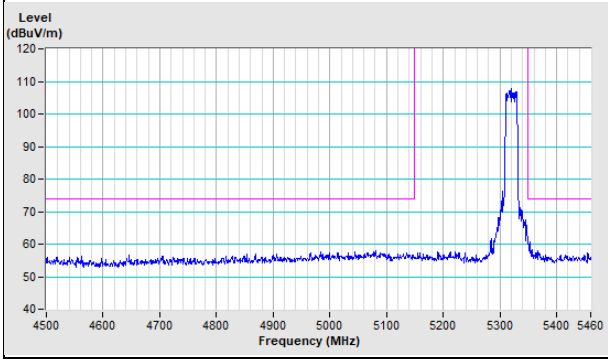
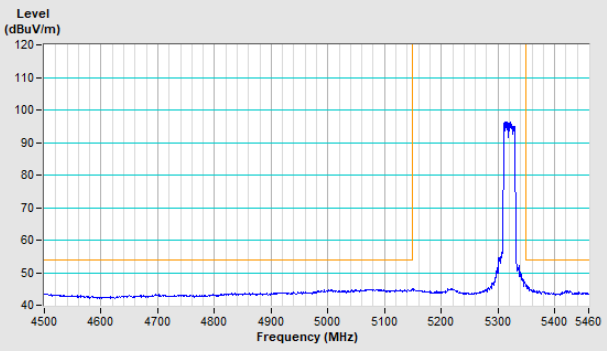
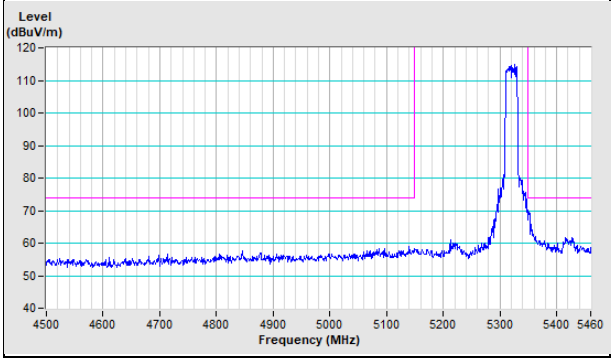
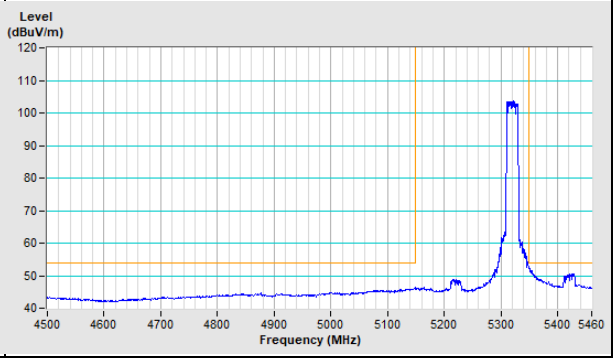


Vertical (Peak)



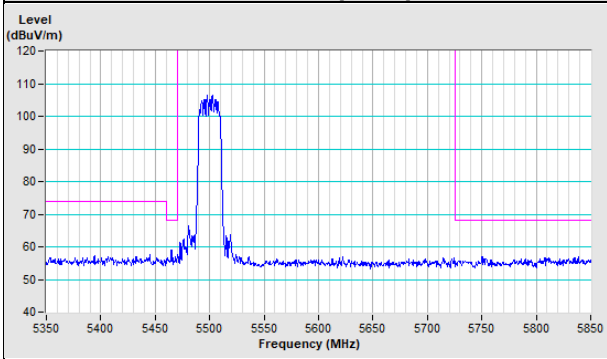
Vertical (Average)



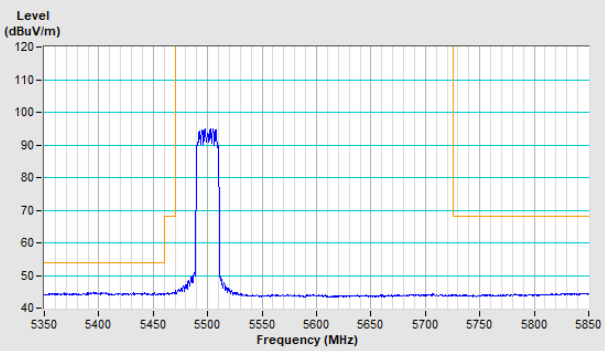
802.11ax (HE20) Channel 60	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (HE20) Channel 64	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

802.11ax (HE20) Channel 100

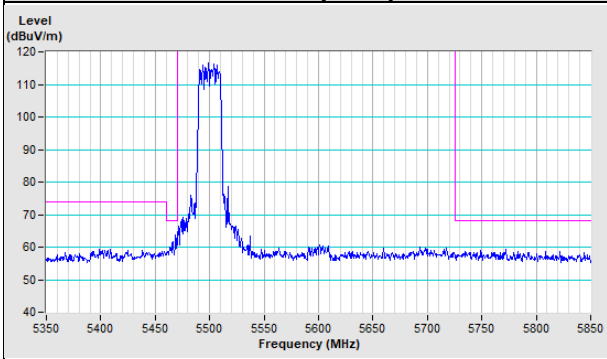
Horizontal (Peak)



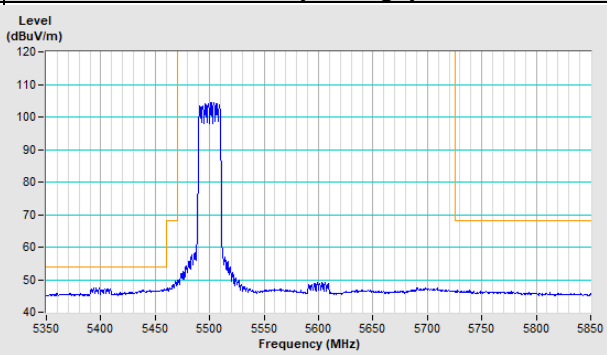
Horizontal (Average)



Vertical (Peak)

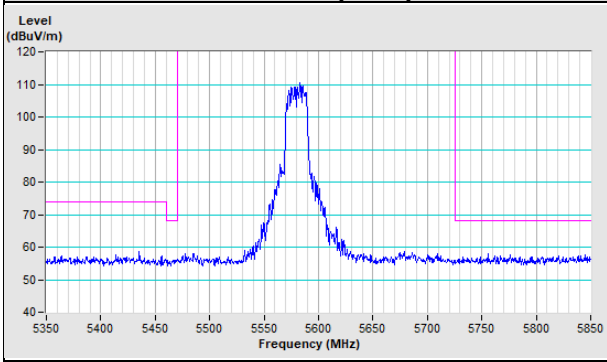


Vertical (Average)

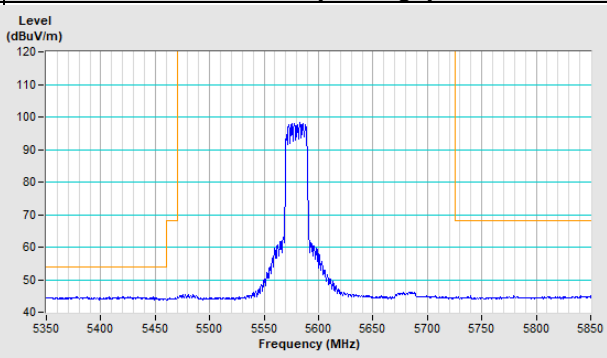


802.11ax (HE20) Channel 116

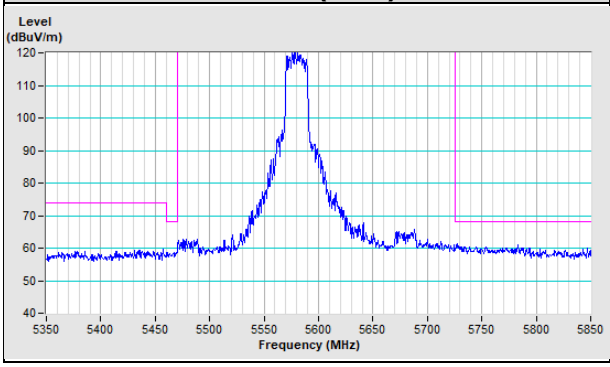
Horizontal (Peak)



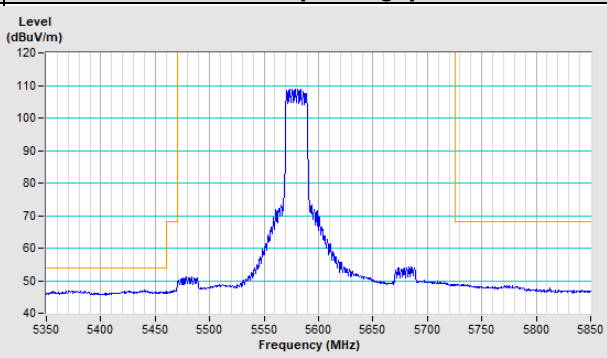
Horizontal (Average)

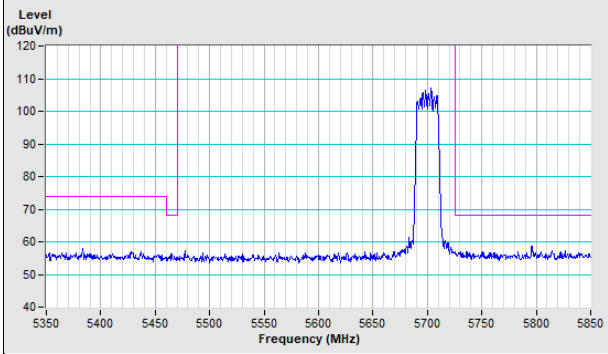
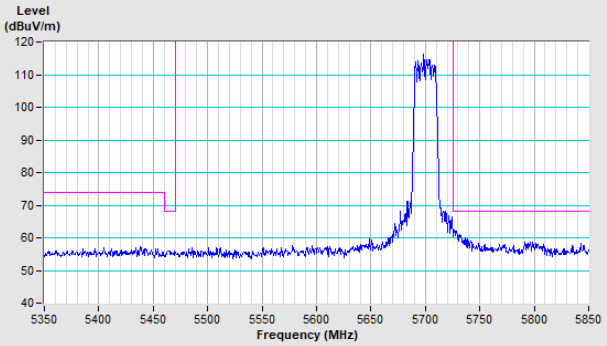
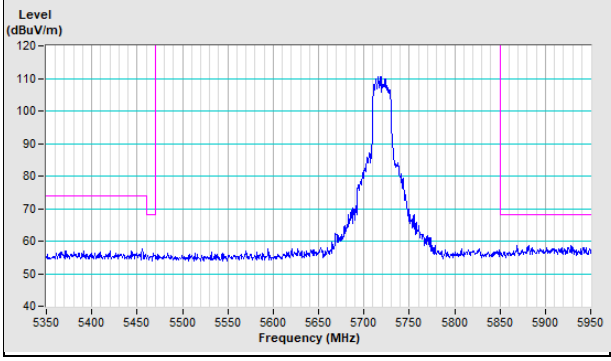
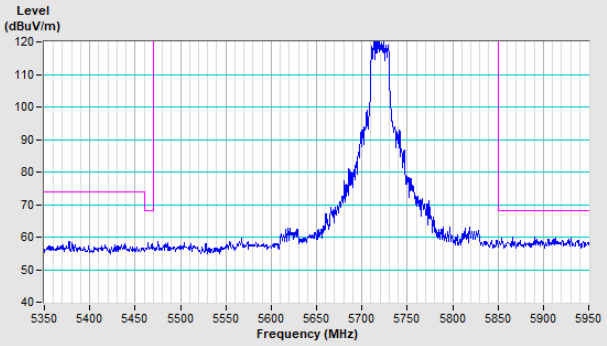


Vertical (Peak)



Vertical (Average)

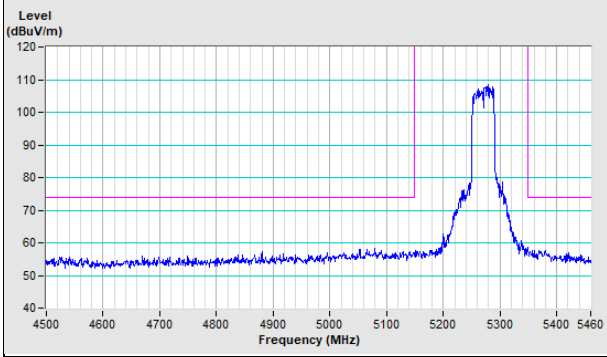


802.11ax (HE20) Channel 140	
Horizontal (Peak)	**Vertical (Peak)**
	
802.11ax (HE20) Channel 144	
Horizontal (Peak)	**Vertical (Peak)**
	

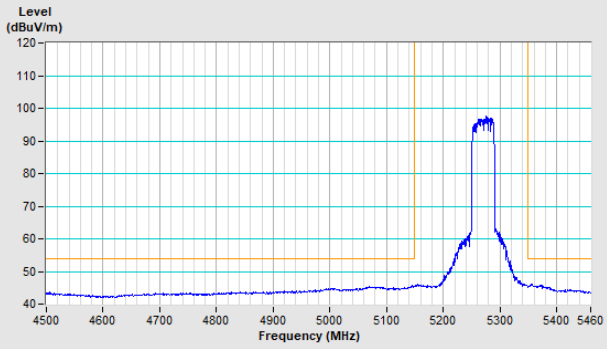
802.11ax (HE40)

802.11ax (HE40) Channel 54

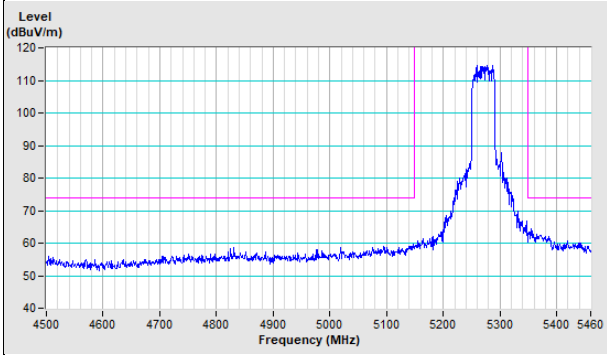
Horizontal (Peak)



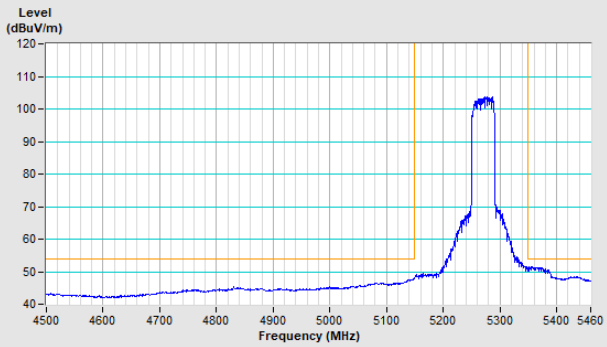
Horizontal (Average)



Vertical (Peak)

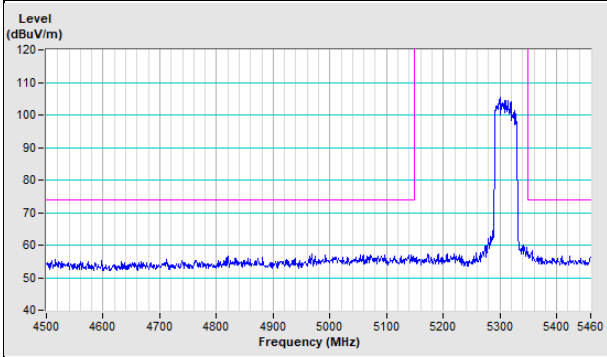


Vertical (Average)

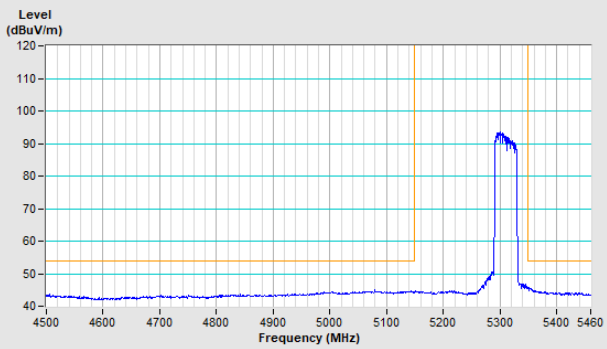


802.11ax (HE40) Channel 62

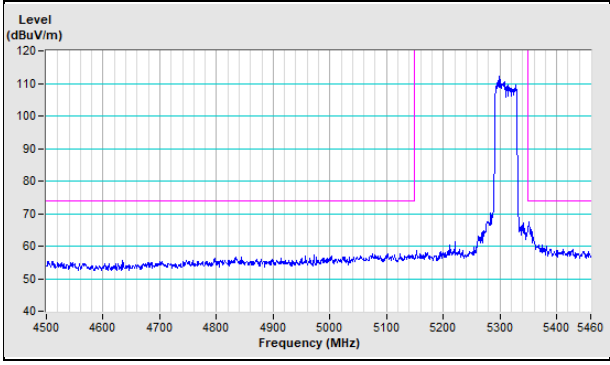
Horizontal (Peak)



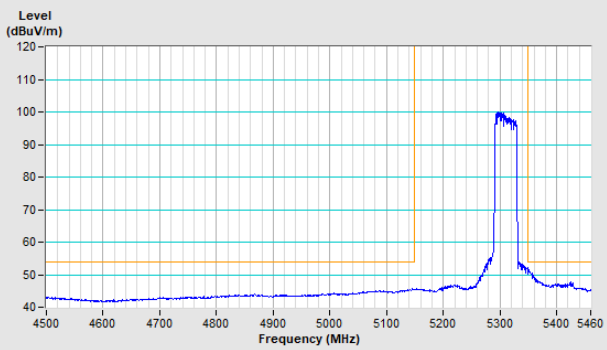
Horizontal (Average)



Vertical (Peak)

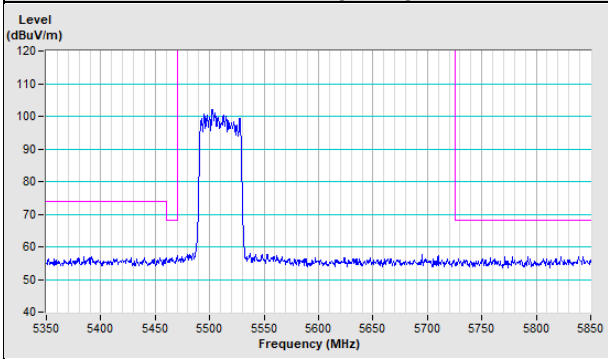


Vertical (Average)

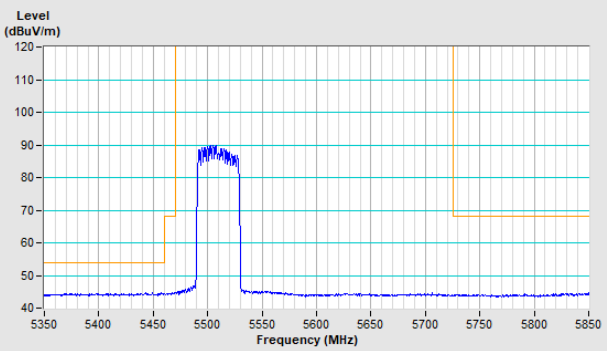


802.11ax (HE40) Channel 102

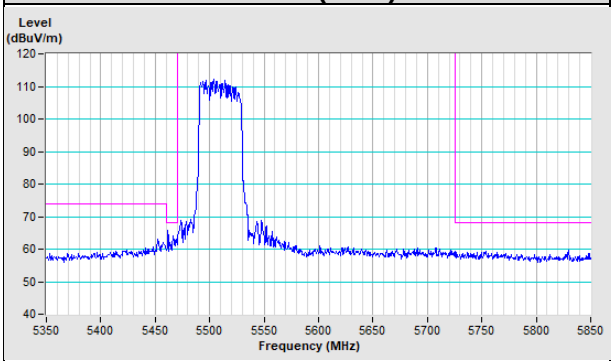
Horizontal (Peak)



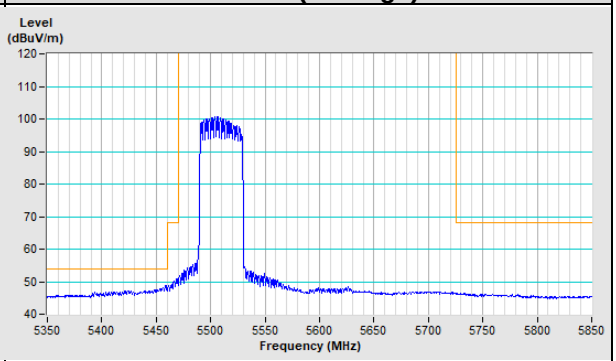
Horizontal (Average)



Vertical (Peak)

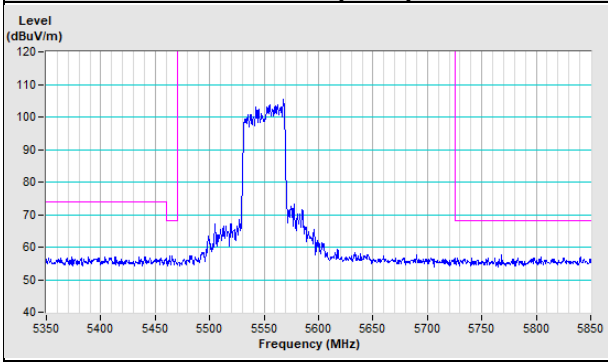


Vertical (Average)

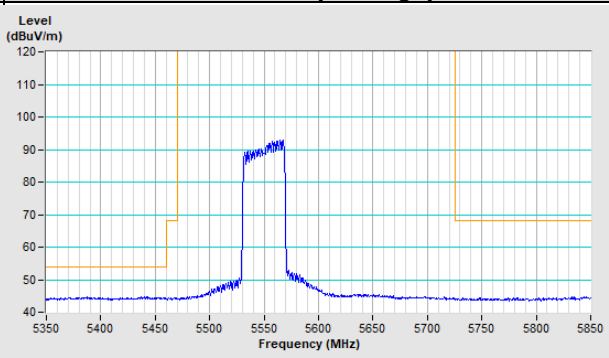


802.11ax (HE40) Channel 110

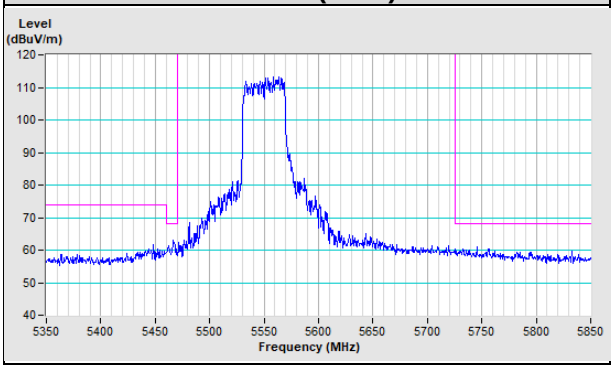
Horizontal (Peak)



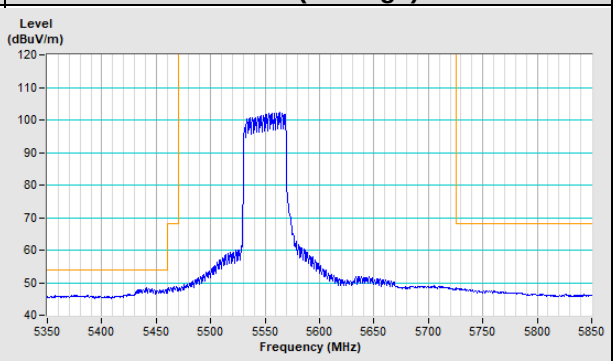
Horizontal (Average)

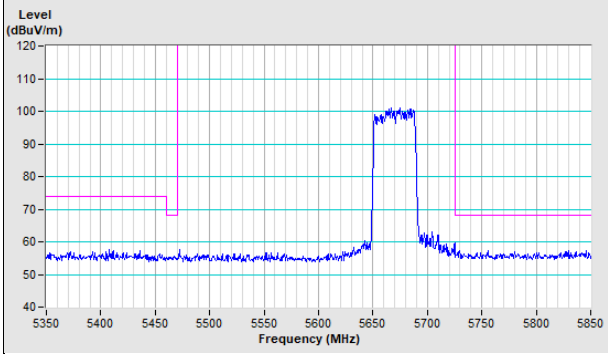
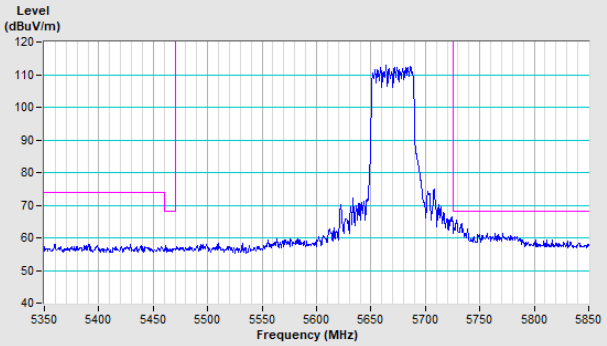
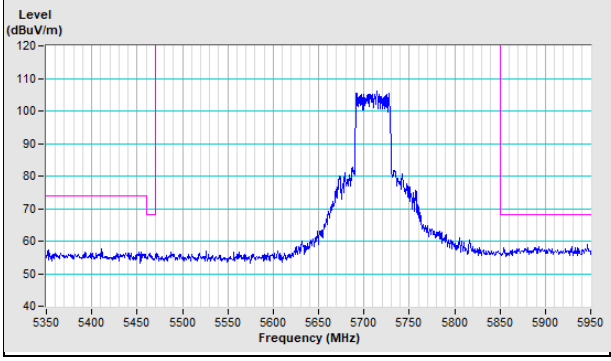
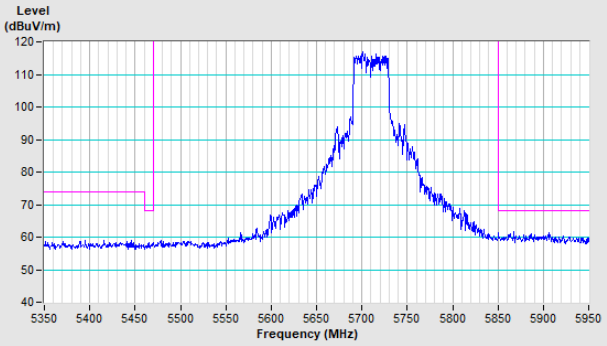


Vertical (Peak)



Vertical (Average)

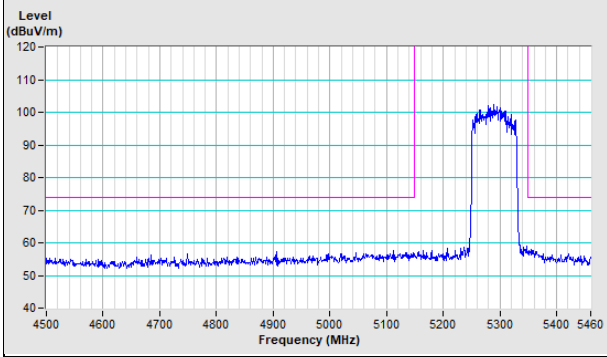


802.11ax (HE40) Channel 134	
Horizontal (Peak)	Vertical (Peak)
	
802.11ax (HE40) Channel 142	
Horizontal (Peak)	Vertical (Peak)
	

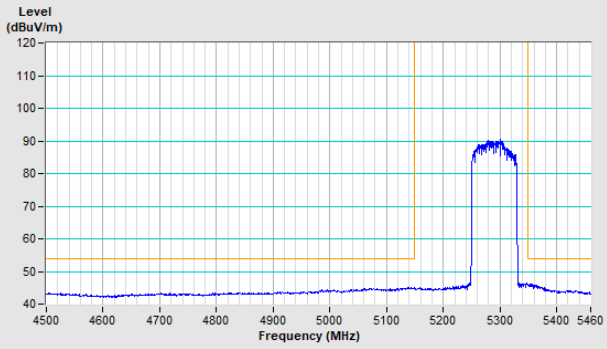
802.11ax (HE80)

802.11ax (HE80) Channel 58

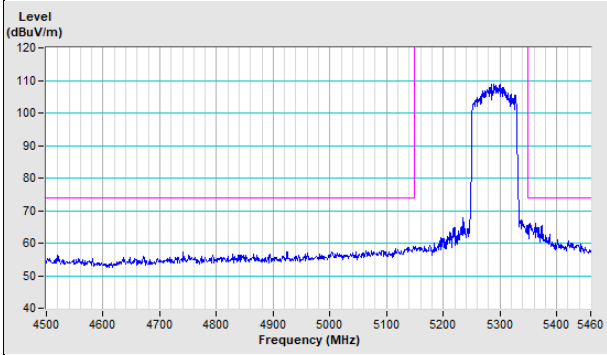
Horizontal (Peak)



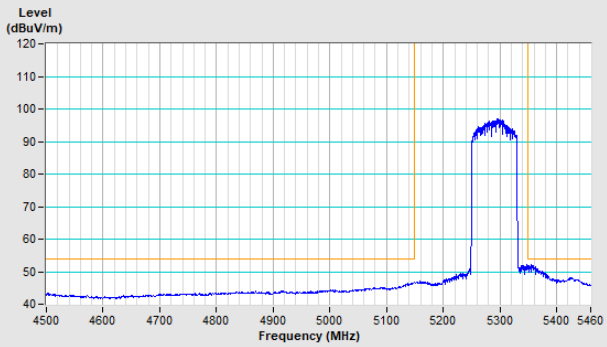
Horizontal (Average)



Vertical (Peak)

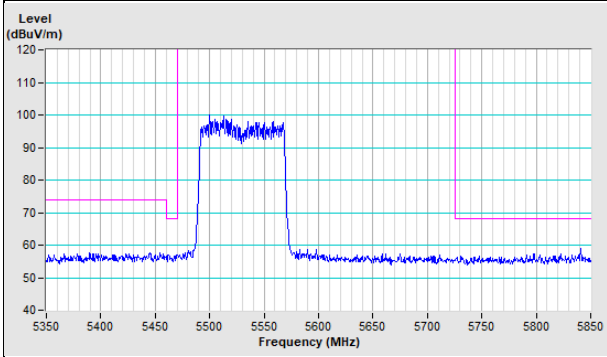


Vertical (Average)

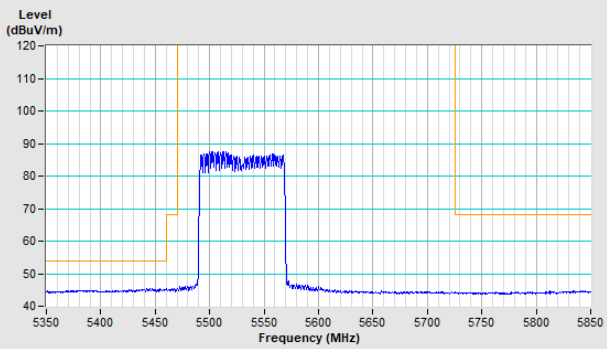


802.11ax (HE80) Channel 106

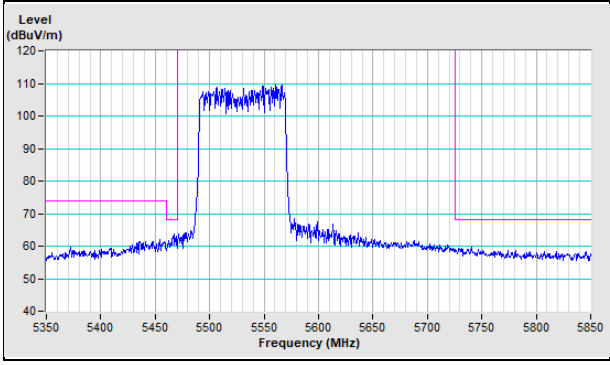
Horizontal (Peak)



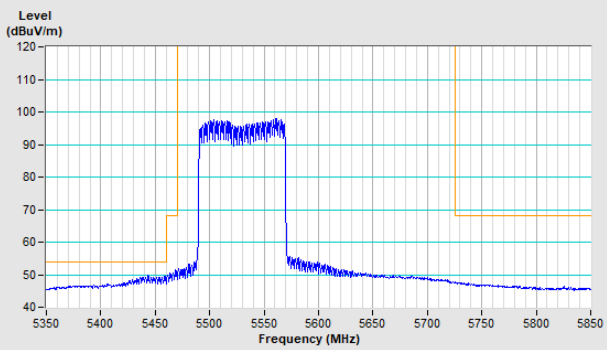
Horizontal (Average)

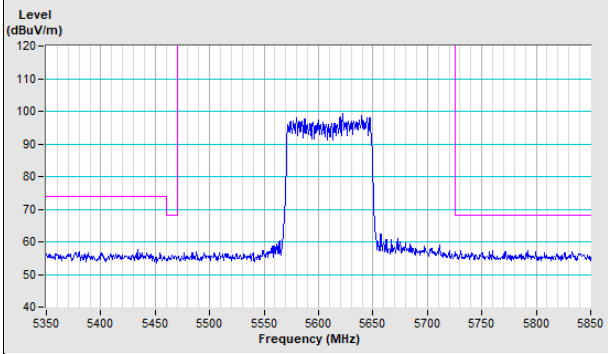
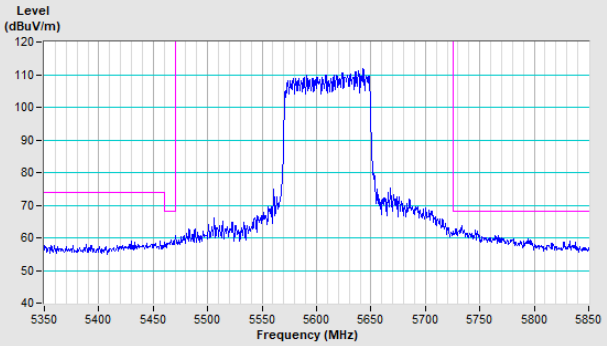
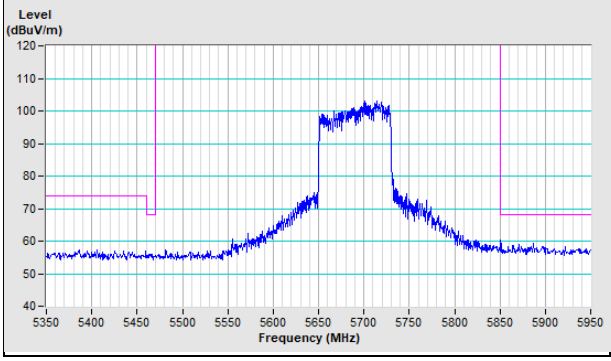
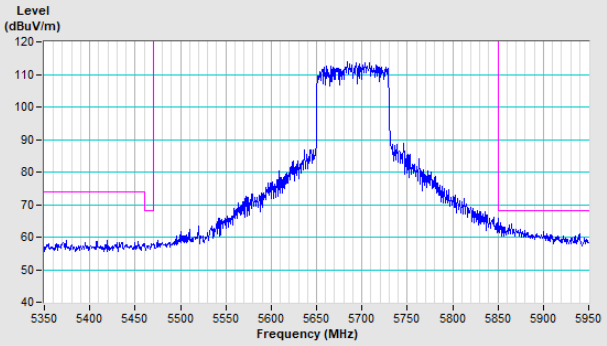


Vertical (Peak)



Vertical (Average)



802.11ax (HE80) Channel 122	
Horizontal (Peak)	**Vertical (Peak)**
	
802.11ax (HE80) Channel 138	
Horizontal (Peak)	**Vertical (Peak)**
	

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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