

FCC Test Report

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Release Control Record

Issue No.	Description	Date Issued
RFBGTL-WTW-P22020475-1	Original release.	May 30, 2022

1 Certificate of Conformity

Product: Smart Phone

Brand: SHARP


Sample Status: Engineering sample

Applicant: SHARP Corporation Mobile Communication BU

Test Date: Apr. 26 ~ May 05, 2022

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 :  , **Date:** May 30, 2022
Polly Chien / Specialist

Approved by :  , **Date:** May 30, 2022
Jeremy Lin / 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)(9)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -19.06dB at 0.44325MHz.
15.407(b)(1/2/3/4(i/ii)/9)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -2.4dB at 11490.00MHz and 11400.00MHz.
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. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note:

1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
2. For U-NII-1, 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 B. Test Procedures refer to report 4.1.3.
3. 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) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.44 dB
	30MHz ~ 200MHz	2.93 dB
	200MHz ~ 1000MHz	2.95 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Smart Phone
Brand	SHARP
Sample Status	Engineering sample
Power Supply Rating	5.0Vdc (from adapter) 3.87Vdc (Battery)
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: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps
Operating Frequency	5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 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): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1
Output Power	Refer to note
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Refer to note
Cable Supplied	Refer to note

Note:

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

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ac (VHT80)	2TX
802.11ac (VHT160)	2TX
802.11ax (HE20)	2TX
802.11ax (HE40)	2TX
802.11ax (HE80)	2TX
802.11ax (HE160)	2TX

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80/VHT160 on 802.11ac mode and HE80/HE160 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

2. The EUT contains following support units.

Product	Brand	Model	Description
Adapter (Support unit)	Salom	XN-2QC25	Input: 100-240Vac, 50/60Hz, 0.2A Output: 5.0Vdc, 800mA
Battery	-	-	3.87Vdc, Rated 4870mAh (18.9Wh), Typ. 5000mAh (19.4Wh)
Headset (Support unit)	Ambibio	AB-HI02JS	-
USB cable (Support unit)	Luxshare-ICT	L6KU2007-CS-H	0.95m shielded cable without core

3. The antenna used in this EUT is listed as below table:

Ant. Type	Connector	Ant. No.	Antenna Gain (dBi)				
			2400-2472 MHz	5150-5250 MHz	5250-5350 MHz	5470-5725 MHz	5725-5850 MHz
PIFA	I-PEX	4	-2.7	-2.5	-3.6	-3.8	-1.9
		8	0.0	-2.9	-2.4	-1.6	-0.9

4. Output Power are as below:

Frequency (MHz)	Output Power (mW)						
	Full RU	Partial RU					
		RU26	RU52	RU106	RU242	RU486	RU996
5180-5250	30.871	12.389	12.304	12.233	12.177	12.038	11.261
5250-5320	31.191	12.475	12.403	12.262	12.164	12.123	0.003
5500-5720	31.084	12.461	12.389	12.262	12.219	12.149	11.832
5745-5825	30.799	12.432	12.304	12.233	12.136	12.052	-

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

For 5180 ~ 5320MHz:

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

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz
54	5270 MHz	62	5310 MHz

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

Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
50	5250MHz

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	138	5690 MHz
122	5610 MHz		

1 channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

Channel	Frequency
114	5570MHz

For 5745 ~ 5825MHz:

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

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz		

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

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

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE \geq 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where RE \geq 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 Y-plane.
2. Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power channel for final testing.

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)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	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
	802.11ax (HE160)		50	50	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
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)		155	155	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)
-	802.11ax (HE80)	5180-5250	42	58	OFDMA	MCS0
	802.11ax (HE80)	5250-5320	58		OFDMA	MCS0
	802.11ax (HE80)	5500-5720	106 to 138		OFDMA	MCS0
	802.11ax (HE80)	5745-5825	155		OFDMA	MCS0

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)
-	802.11ax (HE80)	5180-5250	42	58	OFDMA	MCS0
	802.11ax (HE80)	5250-5320	58		OFDMA	MCS0
	802.11ax (HE80)	5500-5720	106 to 138		OFDMA	MCS0
	802.11ax (HE80)	5745-5825	155		OFDMA	MCS0

Bandwidth, Power Spectral Density and Frequency Stability 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)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11a	5250-5320	52 to 64	52, 60, 64	OFDM	6.0
	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
	802.11ax (HE160)		50	50	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
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)		155	155	OFDMA	MCS0

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EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11ax (HE20)	5180-5250	36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5250-5320	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
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5500-5720	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
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11ax (HE20)	5745-5825	149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)		155	155	OFDMA	MCS0

Transmit Power 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)
-	802.11a	5180-5250	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	MCS0
	802.11n (HT40)		38 to 46	38, 46	OFDM	MCS0
	802.11ac (VHT20)		36 to 48	36, 40, 48	OFDM	MCS0
	802.11ac (VHT40)		38 to 46	38, 46	OFDM	MCS0
	802.11ac (VHT80)		42	42	OFDM	MCS0
	802.11ac (VHT160)		50	50	OFDM	MCS0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
	-		802.11a	5250-5320	52 to 64	52, 60, 64
802.11n (HT20)		52 to 64	52, 60, 64		OFDM	MCS0
802.11n (HT40)		54 to 62	54, 62		OFDM	MCS0
802.11ac (VHT20)		52 to 64	52, 60, 64		OFDM	MCS0
802.11ac (VHT40)		54 to 62	54, 62		OFDM	MCS0
802.11ac (VHT80)		58	58		OFDM	MCS0
802.11ac (VHT160)		50	50		OFDM	MCS0
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
802.11ax (HE160)		50	50		OFDMA	MCS0

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11n (HT20)		100 to 144	100, 116, 140, 144	OFDM	MCS0
	802.11n (HT40)		102 to 142	102, 110, 134, 142	OFDM	MCS0
	802.11ac (VHT20)		100 to 144	100, 116, 140, 144	OFDM	MCS0
	802.11ac (VHT40)		102 to 142	102, 110, 134, 142	OFDM	MCS0
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	MCS0
	802.11ac (VHT160)		114	114	OFDM	MCS0
	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
	802.11ax (HE160)		114	114	OFDMA	MCS0
	-		802.11a	5745-5825	149 to 165	149, 157, 165
802.11n (HT20)		149 to 165	149, 157, 165		OFDM	MCS0
802.11n (HT40)		151 to 159	151, 159		OFDM	MCS0
802.11ac (VHT20)		149 to 165	149, 157, 165		OFDM	MCS0
802.11ac (VHT40)		151 to 159	151, 159		OFDM	MCS0
802.11ac (VHT80)		155	155		OFDM	MCS0
802.11ax (HE20)		149 to 165	149, 157, 165		OFDMA	MCS0
802.11ax (HE40)		151 to 159	151, 159		OFDMA	MCS0
802.11ax (HE80)		155	155		OFDMA	MCS0

Partial RU

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11ax (HE20)	5180-5250	36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5250-5320	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
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5500-5720	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
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11ax (HE20)	5745-5825	149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (HE80)		155	155	OFDMA	MCS0

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE \geq 1G	23 deg. C, 66% RH	120Vac, 60Hz	Luia Lee, Tatian Hsu
RE<1G	18 deg. C, 61% RH	120Vac, 60Hz	Thomas Cheng
PLC	23 deg. C, 69% RH	120Vac, 60Hz	Thomas Cheng
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Wayne Lin

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is > 98 %, duty factor is not required.

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

802.11a: Duty cycle = $2.067\text{ms}/2.112\text{ms} = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11ax (HE20): Duty cycle = $5.385\text{ms}/5.465\text{ms} = 0.985$

802.11ax (HE40): Duty cycle = $5.385\text{ms}/5.460\text{ms} = 0.986$

802.11ax (HE80): Duty cycle = $5.375\text{ms}/5.465\text{ms} = 0.984$

802.11ax (HE160): Duty cycle = $5.380\text{ms}/5.460\text{ms} = 0.985$



3.4 Description of Support Units

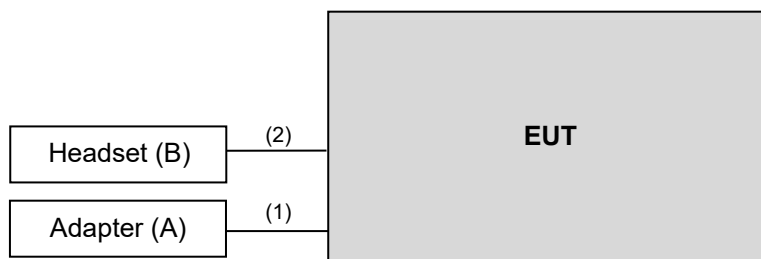
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Adapter	Salom	XN-2QC25	NA	NA	Provided by client
B.	Headset	Ambibio	AB-HI02JS	NA	NA	Provided by client

Note: All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB cable	1	0.95	Y	0	Provided by client
2.	Audio cable	1	1.1	N	0	Provided by client

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

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK: 74 (dBµV/m)	AV: 54 (dBµV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2(dBµV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	<input checked="" type="checkbox"/> 15.407(b)(4)(i)	PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4}	PK: 68.2(dBµV/m) ^{*1} PK: 105.2 (dBµV/m) ^{*2} PK: 110.8(dBµV/m) ^{*3} PK: 122.2 (dBµV/m) ^{*4}
	<input type="checkbox"/> 15.407(b)(4)(ii)	Emission limits in section 15.247(d)	
^{*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.	

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 03, 2021	Dec. 02, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 11, 2022	Apr. 10, 2023
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 14, 2021	Nov. 13, 2022
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Oct. 28, 2021	Oct. 27, 2022
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 05, 2022	Apr. 04, 2023
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC 012645	980115	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable EMCI	EMC104-SM-SM-8000	171005	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1000(140807)	Oct. 05, 2021	Oct. 04, 2022
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 05, 2021	Oct. 04, 2022
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA
Peak Power Analyzer KEYSIGHT	8990B	MY51000485	Jan. 18, 2022	Jan. 17, 2023
Wideband Power Sensor KEYSIGHT	N1923A	MY58020002	Jan. 17, 2022	Jan. 16, 2023

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 10.

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:

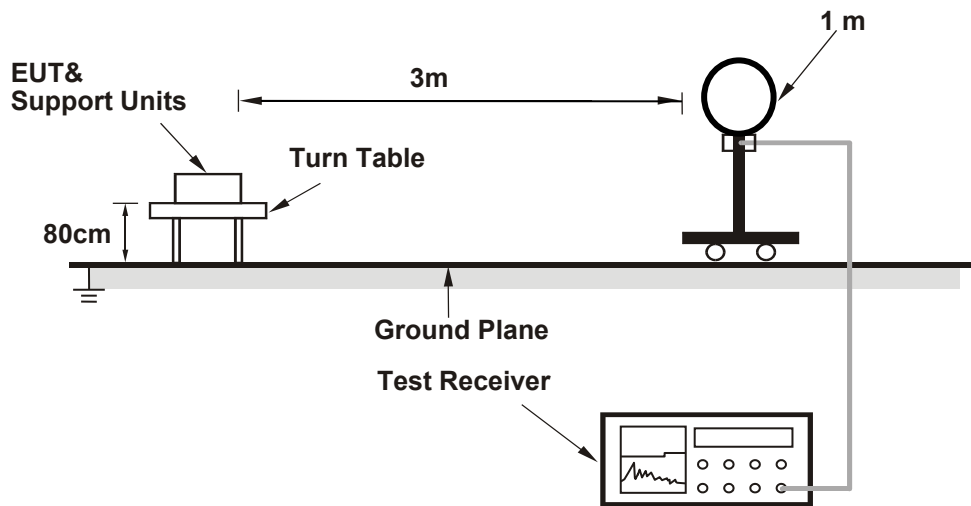
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
(802.11a: RBW = 1MHz, VBW = 1kHz; 802.11ax (HE20): RBW = 1MHz, VBW = 10Hz;
802.11ax (HE40): RBW = 1MHz, VBW = 10Hz; 802.11ax (HE80): RBW = 1MHz, VBW = 10Hz; 802.11ax (HE160): RBW = 1MHz, VBW = 10Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

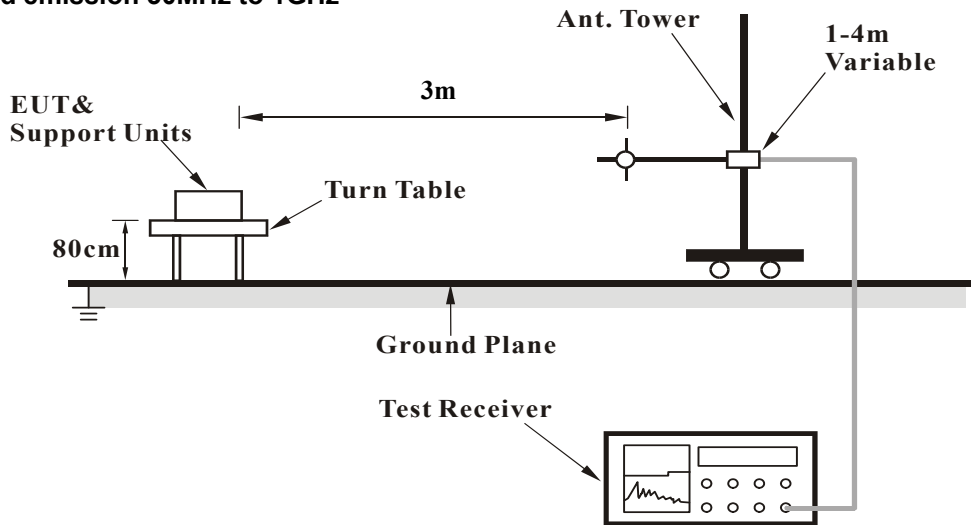
No deviation.

4.1.5 Test Setup

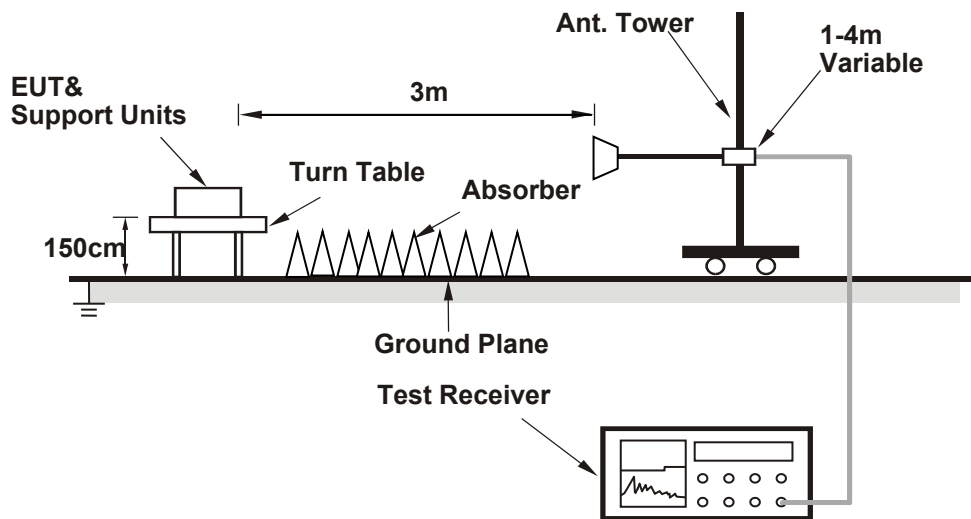
For Radiated emission below 30MHz



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. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1GHz data:

RF Mode	TX 802.11a	Channel	CH 36 : 5180 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	58.9 PK	74.0	-15.1	2.26 H	183	46.0	12.9
2	5150.00	46.4 AV	54.0	-7.6	2.26 H	183	33.5	12.9
3	*5180.00	100.4 PK			2.26 H	183	58.0	42.4
4	*5180.00	91.0 AV			2.26 H	183	48.6	42.4
5	#10360.00	62.2 PK	68.2	-6.0	1.43 H	298	39.6	22.6

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	58.7 PK	74.0	-15.3	1.05 V	100	45.8	12.9
2	5150.00	46.3 AV	54.0	-7.7	1.05 V	100	33.4	12.9
3	*5180.00	99.0 PK			1.05 V	100	56.6	42.4
4	*5180.00	89.9 AV			1.05 V	100	47.5	42.4
5	#10360.00	61.8 PK	68.2	-6.4	2.30 V	155	39.2	22.6

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 40 : 5200 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	*5200.00	100.3 PK			2.27 H	186	58.1	42.2
2	*5200.00	90.7 AV			2.27 H	186	48.5	42.2
3	#10400.00	62.6 PK	68.2	-5.6	1.48 H	299	39.8	22.8

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	*5200.00	98.9 PK			1.08 V	103	56.7	42.2
2	*5200.00	89.5 AV			1.08 V	103	47.3	42.2
3	#10400.00	62.0 PK	68.2	-6.2	2.17 V	159	39.2	22.8

Remarks:

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

RF Mode	TX 802.11a	Channel	CH 48 : 5240 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	*5240.00	101.6 PK			2.18 H	182	59.4	42.2
2	*5240.00	91.6 AV			2.18 H	182	49.4	42.2
3	5350.00	59.9 PK	74.0	-14.1	2.18 H	182	46.9	13.0
4	5350.00	47.3 AV	54.0	-6.7	2.18 H	182	34.3	13.0
5	#10480.00	62.6 PK	68.2	-5.6	1.44 H	298	39.8	22.8

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	*5240.00	101.1 PK			1.04 V	99	58.9	42.2
2	*5240.00	91.0 AV			1.04 V	99	48.8	42.2
3	5350.00	58.9 PK	74.0	-15.1	1.04 V	99	45.9	13.0
4	5350.00	46.8 AV	54.0	-7.2	1.04 V	99	33.8	13.0
5	#10480.00	61.9 PK	68.2	-6.3	2.28 V	163	39.1	22.8

Remarks:

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

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	59.7 PK	74.0	-14.3	2.20 H	183	46.8	12.9
2	5150.00	47.1 AV	54.0	-6.9	2.20 H	183	34.2	12.9
3	*5260.00	101.6 PK			2.20 H	183	59.3	42.3
4	*5260.00	91.9 AV			2.20 H	183	49.6	42.3
5	#10520.00	62.8 PK	68.2	-5.4	1.42 H	286	39.8	23.0

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	5150.00	59.4 PK	74.0	-14.6	1.07 V	105	46.5	12.9
2	5150.00	46.8 AV	54.0	-7.2	1.07 V	105	33.9	12.9
3	*5260.00	100.5 PK			1.07 V	105	58.2	42.3
4	*5260.00	90.9 AV			1.07 V	105	48.6	42.3
5	#10520.00	62.2 PK	68.2	-6.0	2.11 V	159	39.2	23.0

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 802.11a	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	102.1 PK			2.19 H	188	59.8	42.3
2	*5300.00	92.5 AV			2.19 H	188	50.2	42.3
3	10600.00	63.3 PK	74.0	-10.7	1.44 H	283	39.8	23.5
4	10600.00	50.2 AV	54.0	-3.8	1.44 H	283	26.7	23.5

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	*5300.00	100.9 PK			1.14 V	109	58.6	42.3
2	*5300.00	91.2 AV			1.14 V	109	48.9	42.3
3	10600.00	62.7 PK	74.0	-11.3	2.06 V	161	39.2	23.5
4	10600.00	49.4 AV	54.0	-4.6	2.06 V	161	25.9	23.5

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 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	101.3 PK			2.19 H	181	58.9	42.4
2	*5320.00	91.8 AV			2.19 H	181	49.4	42.4
3	5350.00	59.3 PK	74.0	-14.7	2.19 H	181	46.3	13.0
4	5350.00	47.3 AV	54.0	-6.7	2.19 H	181	34.3	13.0
5	10640.00	63.3 PK	74.0	-10.7	1.38 H	279	39.8	23.5
6	10640.00	50.0 AV	54.0	-4.0	1.38 H	279	26.5	23.5

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	*5320.00	99.9 PK			1.06 V	104	57.5	42.4
2	*5320.00	90.7 AV			1.06 V	104	48.3	42.4
3	5350.00	59.0 PK	74.0	-15.0	1.06 V	104	46.0	13.0
4	5350.00	46.8 AV	54.0	-7.2	1.06 V	104	33.8	13.0
5	10640.00	62.7 PK	74.0	-11.3	2.08 V	155	39.2	23.5
6	10640.00	49.3 AV	54.0	-4.7	2.08 V	155	25.8	23.5

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 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	61.4 PK	74.0	-12.6	2.13 H	126	48.2	13.2
2	5460.00	48.2 AV	54.0	-5.8	2.13 H	126	35.0	13.2
3	#5470.00	61.9 PK	68.2	-6.3	2.13 H	126	48.5	13.4
4	*5500.00	102.1 PK			2.13 H	126	59.2	42.9
5	*5500.00	92.6 AV			2.13 H	126	49.7	42.9
6	11000.00	63.8 PK	74.0	-10.2	1.42 H	285	39.5	24.3
7	11000.00	50.8 AV	54.0	-3.2	1.42 H	285	26.5	24.3

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	61.0 PK	74.0	-13.0	1.21 V	98	47.8	13.2
2	5460.00	47.7 AV	54.0	-6.3	1.21 V	98	34.5	13.2
3	#5470.00	61.7 PK	68.2	-6.5	1.21 V	98	48.3	13.4
4	*5500.00	100.9 PK			1.21 V	98	58.0	42.9
5	*5500.00	91.4 AV			1.21 V	98	48.5	42.9
6	11000.00	63.4 PK	74.0	-10.6	2.09 V	168	39.1	24.3
7	11000.00	50.4 AV	54.0	-3.6	2.09 V	168	26.1	24.3

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 802.11a	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	103.2 PK			2.33 H	124	60.3	42.9
2	*5580.00	93.7 AV			2.33 H	124	50.8	42.9
3	11160.00	63.6 PK	74.0	-10.4	1.45 H	288	39.4	24.2
4	11160.00	50.5 AV	54.0	-3.5	1.45 H	288	26.3	24.2

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	*5580.00	100.0 PK			1.20 V	101	57.1	42.9
2	*5580.00	91.1 AV			1.20 V	101	48.2	42.9
3	11160.00	63.2 PK	74.0	-10.8	2.01 V	163	39.0	24.2
4	11160.00	50.2 AV	54.0	-3.8	2.01 V	163	26.0	24.2

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 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	102.2 PK			2.30 H	126	59.2	43.0
2	*5700.00	93.0 AV			2.30 H	126	50.0	43.0
3	#5725.00	63.4 PK	68.2	-4.8	2.30 H	126	49.9	13.5
4	11400.00	64.3 PK	74.0	-9.7	1.46 H	287	39.2	25.1
5	11400.00	51.4 AV	54.0	-2.6	1.46 H	287	26.3	25.1

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	*5700.00	99.1 PK			1.27 V	96	56.1	43.0
2	*5700.00	90.0 AV			1.27 V	96	47.0	43.0
3	#5725.00	63.1 PK	68.2	-5.1	1.27 V	96	49.6	13.5
4	11400.00	63.9 PK	74.0	-10.1	2.05 V	171	38.8	25.1
5	11400.00	50.9 AV	54.0	-3.1	2.05 V	171	25.8	25.1

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 802.11a	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	61.6 PK	68.2	-6.6	2.29 H	124	48.2	13.4
2	*5720.00	101.7 PK			2.29 H	124	58.5	43.2
3	*5720.00	92.6 AV			2.29 H	124	49.4	43.2
4	#5850.00	64.2 PK	68.2	-4.0	2.29 H	124	50.1	14.1
5	11440.00	64.4 PK	74.0	-9.6	1.49 H	291	39.3	25.1
6	11440.00	51.4 AV	54.0	-2.6	1.49 H	291	26.3	25.1

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	#5470.00	61.4 PK	68.2	-6.8	1.28 V	101	48.0	13.4
2	*5720.00	99.1 PK			1.28 V	101	55.9	43.2
3	*5720.00	90.2 AV			1.28 V	101	47.0	43.2
4	#5850.00	63.4 PK	68.2	-4.8	1.28 V	101	49.3	14.1
5	11440.00	64.0 PK	74.0	-10.0	2.12 V	168	38.9	25.1
6	11440.00	51.0 AV	54.0	-3.0	2.12 V	168	25.9	25.1

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 802.11a	Channel	CH 149 : 5745 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	#5604.00	59.3 PK	68.2	-8.9	2.59 H	118	46.0	13.3
2	*5745.00	101.8 PK			2.59 H	118	58.3	43.5
3	*5745.00	92.7 AV			2.59 H	118	49.2	43.5
4	#5964.80	60.7 PK	68.2	-7.5	2.59 H	118	46.5	14.2
5	11490.00	64.8 PK	74.0	-9.2	1.65 H	285	39.6	25.2
6	11490.00	51.6 AV	54.0	-2.4	1.65 H	285	26.4	25.2

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	#5609.60	59.3 PK	68.2	-8.9	1.25 V	93	45.9	13.4
2	*5745.00	98.7 PK			1.25 V	93	55.2	43.5
3	*5745.00	89.6 AV			1.25 V	93	46.1	43.5
4	#5934.80	60.6 PK	68.2	-7.6	1.25 V	93	46.5	14.1
5	11490.00	64.7 PK	74.0	-9.3	2.15 V	171	39.5	25.2
6	11490.00	51.4 AV	54.0	-2.6	2.15 V	171	26.2	25.2

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

RF Mode	TX 802.11a	Channel	CH 157 : 5785 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	#5626.40	59.5 PK	68.2	-8.7	2.57 H	119	46.1	13.4
2	*5785.00	101.8 PK			2.57 H	119	58.1	43.7
3	*5785.00	92.7 AV			2.57 H	119	49.0	43.7
4	#5928.80	59.9 PK	68.2	-8.3	2.57 H	119	45.8	14.1
5	11570.00	64.3 PK	74.0	-9.7	1.65 H	288	39.4	24.9
6	11570.00	51.1 AV	54.0	-2.9	1.65 H	288	26.2	24.9

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	#5644.80	60.5 PK	68.2	-7.7	1.33 V	95	47.1	13.4
2	*5785.00	98.7 PK			1.33 V	95	55.0	43.7
3	*5785.00	89.4 AV			1.33 V	95	45.7	43.7
4	#5975.20	61.2 PK	68.2	-7.0	1.33 V	95	47.0	14.2
5	11570.00	64.2 PK	74.0	-9.8	2.11 V	175	39.3	24.9
6	11570.00	51.0 AV	54.0	-3.0	2.11 V	175	26.1	24.9

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 165 : 5825 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	#5602.40	60.4 PK	68.2	-7.8	2.58 H	123	47.1	13.3
2	*5825.00	101.1 PK			2.58 H	123	57.3	43.8
3	*5825.00	92.1 AV			2.58 H	123	48.3	43.8
4	#5989.20	60.4 PK	68.2	-7.8	2.58 H	123	46.2	14.2
5	11650.00	64.1 PK	74.0	-9.9	1.66 H	291	39.5	24.6
6	11650.00	50.9 AV	54.0	-3.1	1.66 H	291	26.3	24.6

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	#5631.20	59.3 PK	68.2	-8.9	1.13 V	98	45.9	13.4
2	*5825.00	98.1 PK			1.13 V	98	54.3	43.8
3	*5825.00	88.8 AV			1.13 V	98	45.0	43.8
4	#5968.00	60.3 PK	68.2	-7.9	1.13 V	98	46.1	14.2
5	11650.00	63.9 PK	74.0	-10.1	2.13 V	174	39.3	24.6
6	11650.00	50.7 AV	54.0	-3.3	2.13 V	174	26.1	24.6

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 (HTE20)	Channel	CH 36 : 5180 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	2.21 H	182	46.8	12.9
2	5150.00	47.1 AV	54.0	-6.9	2.21 H	182	34.2	12.9
3	*5180.00	104.1 PK			2.21 H	182	61.7	42.4
4	*5180.00	90.9 AV			2.21 H	182	48.5	42.4
5	#10360.00	62.3 PK	68.2	-5.9	1.39 H	299	39.7	22.6

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	59.4 PK	74.0	-14.6	1.10 V	108	46.5	12.9
2	5150.00	46.7 AV	54.0	-7.3	1.10 V	108	33.8	12.9
3	*5180.00	102.3 PK			1.10 V	108	59.9	42.4
4	*5180.00	89.7 AV			1.10 V	108	47.3	42.4
5	#10360.00	61.8 PK	68.2	-6.4	2.25 V	156	39.2	22.6

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 (HTE20)	Channel	CH 40 : 5200 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	*5200.00	103.7 PK			2.19 H	180	61.5	42.2
2	*5200.00	90.5 AV			2.19 H	180	48.3	42.2
3	#10400.00	62.6 PK	68.2	-5.6	1.37 H	297	39.8	22.8

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	*5200.00	102.0 PK			1.07 V	105	59.8	42.2
2	*5200.00	89.4 AV			1.07 V	105	47.2	42.2
3	#10400.00	62.1 PK	68.2	-6.1	2.17 V	152	39.3	22.8

Remarks:

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

RF Mode	TX 802.11ax (HTE20)	Channel	CH 48 : 5240 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	*5240.00	105.0 PK			2.21 H	183	62.8	42.2
2	*5240.00	92.0 AV			2.21 H	183	49.8	42.2
3	5350.00	60.4 PK	74.0	-13.6	2.21 H	183	47.4	13.0
4	5350.00	47.6 AV	54.0	-6.4	2.21 H	183	34.6	13.0
5	#10480.00	62.6 PK	68.2	-5.6	1.36 H	296	39.8	22.8

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	*5240.00	103.7 PK			1.10 V	103	61.5	42.2
2	*5240.00	90.9 AV			1.10 V	103	48.7	42.2
3	5350.00	60.1 PK	74.0	-13.9	1.10 V	103	47.1	13.0
4	5350.00	46.8 AV	54.0	-7.2	1.10 V	103	33.8	13.0
5	#10480.00	62.1 PK	68.2	-6.1	2.11 V	158	39.3	22.8

Remarks:

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

RF Mode	TX 802.11ax (HTE20)	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	59.4 PK	74.0	-14.6	2.18 H	184	46.5	12.9
2	5150.00	47.5 AV	54.0	-6.5	2.18 H	184	34.6	12.9
3	*5260.00	105.6 PK			2.18 H	184	63.3	42.3
4	*5260.00	92.9 AV			2.18 H	184	50.6	42.3
5	#10520.00	62.7 PK	68.2	-5.5	1.36 H	269	39.7	23.0

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	5150.00	59.0 PK	74.0	-15.0	1.09 V	105	46.1	12.9
2	5150.00	46.8 AV	54.0	-7.2	1.09 V	105	33.9	12.9
3	*5260.00	104.4 PK			1.09 V	105	62.1	42.3
4	*5260.00	92.0 AV			1.09 V	105	49.7	42.3
5	#10520.00	62.2 PK	68.2	-6.0	2.13 V	162	39.2	23.0

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 (HTE20)	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	105.7 PK			2.19 H	188	63.4	42.3
2	*5300.00	93.0 AV			2.19 H	188	50.7	42.3
3	10600.00	63.3 PK	74.0	-10.7	1.34 H	266	39.8	23.5
4	10600.00	49.6 AV	54.0	-4.4	1.34 H	266	26.1	23.5

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	*5300.00	104.6 PK			1.10 V	103	62.3	42.3
2	*5300.00	92.1 AV			1.10 V	103	49.8	42.3
3	10600.00	62.8 PK	74.0	-11.2	2.16 V	169	39.3	23.5
4	10600.00	49.2 AV	54.0	-4.8	2.16 V	169	25.7	23.5

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 (HTE20)	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	104.2 PK			2.24 H	179	61.8	42.4
2	*5320.00	91.2 AV			2.24 H	179	48.8	42.4
3	5350.00	59.5 PK	74.0	-14.5	2.24 H	179	46.5	13.0
4	5350.00	47.3 AV	54.0	-6.7	2.24 H	179	34.3	13.0
5	10640.00	63.3 PK	74.0	-10.7	1.32 H	274	39.8	23.5
6	10640.00	50.0 AV	54.0	-4.0	1.32 H	274	26.5	23.5

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	*5320.00	103.1 PK			1.13 V	108	60.7	42.4
2	*5320.00	90.0 AV			1.13 V	108	47.6	42.4
3	5350.00	59.1 PK	74.0	-14.9	1.13 V	108	46.1	13.0
4	5350.00	46.9 AV	54.0	-7.1	1.13 V	108	33.9	13.0
5	10640.00	62.7 PK	74.0	-11.3	1.33 V	271	39.2	23.5
6	10640.00	49.3 AV	54.0	-4.7	1.33 V	271	25.8	23.5

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 (HTE20)	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	60.9 PK	74.0	-13.1	2.38 H	128	47.7	13.2
2	5460.00	48.0 AV	54.0	-6.0	2.38 H	128	34.8	13.2
3	#5470.00	61.4 PK	68.2	-6.8	2.38 H	128	48.0	13.4
4	*5500.00	105.2 PK			2.38 H	128	62.3	42.9
5	*5500.00	93.1 AV			2.38 H	128	50.2	42.9
6	11000.00	63.9 PK	74.0	-10.1	1.52 H	296	39.6	24.3
7	11000.00	50.8 AV	54.0	-3.2	1.52 H	296	26.5	24.3

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	60.4 PK	74.0	-13.6	1.25 V	93	47.2	13.2
2	5460.00	47.6 AV	54.0	-6.4	1.25 V	93	34.4	13.2
3	#5470.00	61.2 PK	68.2	-7.0	1.25 V	93	47.8	13.4
4	*5500.00	103.9 PK			1.25 V	93	61.0	42.9
5	*5500.00	91.1 AV			1.25 V	93	48.2	42.9
6	11000.00	63.3 PK	74.0	-10.7	2.01 V	167	39.0	24.3
7	11000.00	50.3 AV	54.0	-3.7	2.01 V	167	26.0	24.3

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 (HTE20)	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	106.9 PK			2.33 H	127	64.0	42.9
2	*5580.00	93.6 AV			2.33 H	127	50.7	42.9
3	11160.00	63.7 PK	74.0	-10.3	1.52 H	288	39.5	24.2
4	11160.00	50.6 AV	54.0	-3.4	1.52 H	288	26.4	24.2

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	*5580.00	103.8 PK			1.29 V	92	60.9	42.9
2	*5580.00	91.6 AV			1.29 V	92	48.7	42.9
3	11160.00	63.3 PK	74.0	-10.7	2.05 V	167	39.1	24.2
4	11160.00	50.1 AV	54.0	-3.9	2.05 V	167	25.9	24.2

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 (HTE20)	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	105.9 PK			2.29 H	122	62.9	43.0
2	*5700.00	93.0 AV			2.29 H	122	50.0	43.0
3	#5725.00	63.5 PK	68.2	-4.7	2.29 H	122	50.0	13.5
4	11400.00	64.8 PK	74.0	-9.2	1.58 H	294	39.7	25.1
5	11400.00	51.6 AV	54.0	-2.4	1.58 H	294	26.5	25.1

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	*5700.00	103.0 PK			1.30 V	94	60.0	43.0
2	*5700.00	89.9 AV			1.30 V	94	46.9	43.0
3	#5725.00	62.8 PK	68.2	-5.4	1.30 V	94	49.3	13.5
4	11400.00	64.1 PK	74.0	-9.9	2.05 V	175	39.0	25.1
5	11400.00	50.8 AV	54.0	-3.2	2.05 V	175	25.7	25.1

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 (HTE20)	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	61.9 PK	68.2	-6.3	2.31 H	125	48.5	13.4
2	*5720.00	105.2 PK			2.31 H	125	62.0	43.2
3	*5720.00	92.5 AV			2.31 H	125	49.3	43.2
4	#5850.00	63.9 PK	68.2	-4.3	2.31 H	125	49.8	14.1
5	11440.00	64.6 PK	74.0	-9.4	1.55 H	297	39.5	25.1
6	11440.00	51.3 AV	54.0	-2.7	1.55 H	297	26.2	25.1

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	#5470.00	61.4 PK	68.2	-6.8	1.32 V	96	48.0	13.4
2	*5720.00	102.9 PK			1.32 V	96	59.7	43.2
3	*5720.00	89.8 AV			1.32 V	96	46.6	43.2
4	#5850.00	63.6 PK	68.2	-4.6	1.32 V	96	49.5	14.1
5	11440.00	63.9 PK	74.0	-10.1	2.02 V	172	38.8	25.1
6	11440.00	50.6 AV	54.0	-3.4	2.02 V	172	25.5	25.1

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 (HTE20)	Channel	CH 149 : 5745 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	#5639.20	59.5 PK	68.2	-8.7	2.58 H	120	46.1	13.4
2	*5745.00	105.5 PK			2.58 H	120	62.0	43.5
3	*5745.00	92.2 AV			2.58 H	120	48.7	43.5
4	#5927.60	60.7 PK	68.2	-7.5	2.58 H	120	46.6	14.1
5	11490.00	64.8 PK	74.0	-9.2	1.55 H	278	39.6	25.2
6	11490.00	51.6 AV	54.0	-2.4	1.55 H	278	26.4	25.2

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	#5620.00	60.0 PK	68.2	-8.2	1.06 V	102	46.6	13.4
2	*5745.00	101.7 PK			1.06 V	102	58.2	43.5
3	*5745.00	89.6 AV			1.06 V	102	46.1	43.5
4	#5933.60	61.1 PK	68.2	-7.1	1.06 V	102	47.0	14.1
5	11490.00	64.5 PK	74.0	-9.5	2.12 V	176	39.3	25.2
6	11490.00	51.3 AV	54.0	-2.7	2.12 V	176	26.1	25.2

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

RF Mode	TX 802.11ax (HTE20)	Channel	CH 157 : 5785 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	#5604.00	59.5 PK	68.2	-8.7	2.60 H	121	46.2	13.3
2	*5785.00	105.4 PK			2.60 H	121	61.7	43.7
3	*5785.00	92.8 AV			2.60 H	121	49.1	43.7
4	#5964.40	60.7 PK	68.2	-7.5	2.60 H	121	46.5	14.2
5	11570.00	64.4 PK	74.0	-9.6	1.65 H	282	39.5	24.9
6	11570.00	51.2 AV	54.0	-2.8	1.65 H	282	26.3	24.9

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	#5622.00	59.7 PK	68.2	-8.5	1.05 V	105	46.3	13.4
2	*5785.00	102.6 PK			1.05 V	105	58.9	43.7
3	*5785.00	89.6 AV			1.05 V	105	45.9	43.7
4	#5946.80	60.7 PK	68.2	-7.5	1.05 V	105	46.5	14.2
5	11570.00	64.1 PK	74.0	-9.9	2.11 V	177	39.2	24.9
6	11570.00	51.1 AV	54.0	-2.9	2.11 V	177	26.2	24.9

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 (HTE20)	Channel	CH 165 : 5825 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	#5624.80	59.2 PK	68.2	-9.0	2.57 H	120	45.8	13.4
2	*5825.00	105.1 PK			2.57 H	120	61.3	43.8
3	*5825.00	92.1 AV			2.57 H	120	48.3	43.8
4	#5984.40	60.2 PK	68.2	-8.0	2.57 H	120	46.0	14.2
5	11650.00	64.2 PK	74.0	-9.8	1.65 H	284	39.6	24.6
6	11650.00	51.0 AV	54.0	-3.0	1.65 H	284	26.4	24.6

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	#5626.80	59.5 PK	68.2	-8.7	1.05 V	96	46.1	13.4
2	*5825.00	101.8 PK			1.05 V	96	58.0	43.8
3	*5825.00	89.0 AV			1.05 V	96	45.2	43.8
4	#5968.40	60.5 PK	68.2	-7.7	1.05 V	96	46.3	14.2
5	11650.00	63.9 PK	74.0	-10.1	2.12 V	178	39.3	24.6
6	11650.00	50.7 AV	54.0	-3.3	2.12 V	178	26.1	24.6

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 (HTE40)	Channel	CH 38 : 5190 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	60.5 PK	74.0	-13.5	2.24 H	181	47.6	12.9
2	5150.00	47.2 AV	54.0	-6.8	2.24 H	181	34.3	12.9
3	*5190.00	98.8 PK			2.24 H	181	56.5	42.3
4	*5190.00	88.7 AV			2.24 H	181	46.4	42.3
5	#10380.00	62.5 PK	68.2	-5.7	1.44 H	293	39.8	22.7

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	1.13 V	105	47.3	12.9
2	5150.00	46.7 AV	54.0	-7.3	1.13 V	105	33.8	12.9
3	*5190.00	97.6 PK			1.13 V	105	55.3	42.3
4	*5190.00	87.5 AV			1.13 V	105	45.2	42.3
5	#10380.00	62.1 PK	68.2	-6.1	2.15 V	149	39.4	22.7

Remarks:

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

RF Mode	TX 802.11ax (HTE40)	Channel	CH 46 : 5230 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	*5230.00	99.1 PK			2.19 H	181	56.9	42.2
2	*5230.00	89.6 AV			2.19 H	181	47.4	42.2
3	5350.00	59.8 PK	74.0	-14.2	2.19 H	181	46.8	13.0
4	5350.00	47.2 AV	54.0	-6.8	2.19 H	181	34.2	13.0
5	#10460.00	62.8 PK	68.2	-5.4	1.51 H	290	39.9	22.9

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	*5230.00	97.9 PK			1.12 V	103	55.7	42.2
2	*5230.00	88.7 AV			1.12 V	103	46.5	42.2
3	5350.00	59.2 PK	74.0	-14.8	1.12 V	103	46.2	13.0
4	5350.00	46.9 AV	54.0	-7.1	1.12 V	103	33.9	13.0
5	#10460.00	62.0 PK	68.2	-6.2	2.19 V	157	39.1	22.9

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 (HTE40)	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	59.5 PK	74.0	-14.5	2.24 H	180	46.6	12.9
2	5150.00	47.4 AV	54.0	-6.6	2.24 H	180	34.5	12.9
3	*5270.00	100.0 PK			2.24 H	180	57.7	42.3
4	*5270.00	89.8 AV			2.24 H	180	47.5	42.3
5	#10540.00	62.8 PK	68.2	-5.4	1.35 H	279	39.7	23.1

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	5150.00	59.0 PK	74.0	-15.0	1.03 V	102	46.1	12.9
2	5150.00	46.6 AV	54.0	-7.4	1.03 V	102	33.7	12.9
3	*5270.00	98.8 PK			1.03 V	102	56.5	42.3
4	*5270.00	88.6 AV			1.03 V	102	46.3	42.3
5	#10540.00	62.4 PK	68.2	-5.8	2.11 V	158	39.3	23.1

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 (HTE40)	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	99.1 PK			2.12 H	181	56.7	42.4
2	*5310.00	89.3 AV			2.12 H	181	46.9	42.4
3	5350.00	59.5 PK	74.0	-14.5	2.12 H	181	46.5	13.0
4	5350.00	47.2 AV	54.0	-6.8	2.12 H	181	34.2	13.0
5	10620.00	63.2 PK	74.0	-10.8	1.32 H	274	39.8	23.4
6	10620.00	49.7 AV	54.0	-4.3	1.32 H	274	26.3	23.4

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	98.0 PK			1.10 V	105	55.6	42.4
2	*5310.00	88.1 AV			1.10 V	105	45.7	42.4
3	5350.00	59.1 PK	74.0	-14.9	1.10 V	105	46.1	13.0
4	5350.00	46.9 AV	54.0	-7.1	1.10 V	105	33.9	13.0
5	10620.00	62.6 PK	74.0	-11.4	2.15 V	166	39.2	23.4
6	10620.00	49.2 AV	54.0	-4.8	2.15 V	166	25.8	23.4

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 (HTE40)	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	61.2 PK	74.0	-12.8	2.72 H	122	48.0	13.2
2	5460.00	47.7 AV	54.0	-6.3	2.72 H	122	34.5	13.2
3	#5470.00	61.6 PK	68.2	-6.6	2.72 H	122	48.2	13.4
4	*5510.00	100.4 PK			2.72 H	122	57.5	42.9
5	*5510.00	90.3 AV			2.72 H	122	47.4	42.9
6	11020.00	63.3 PK	74.0	-10.7	1.55 H	292	39.1	24.2
7	11020.00	50.3 AV	54.0	-3.7	1.55 H	292	26.1	24.2

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	5460.00	60.7 PK	74.0	-13.3	1.34 V	93	47.5	13.2
2	5460.00	47.7 AV	54.0	-6.3	1.34 V	93	34.5	13.2
3	#5470.00	61.6 PK	68.2	-6.6	1.34 V	93	48.2	13.4
4	*5510.00	98.8 PK			1.34 V	93	55.9	42.9
5	*5510.00	89.0 AV			1.34 V	93	46.1	42.9
6	11020.00	63.1 PK	74.0	-10.9	2.12 V	169	38.9	24.2
7	11020.00	49.8 AV	54.0	-4.2	2.12 V	169	25.6	24.2

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

RF Mode	TX 802.11ax (HTE40)	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	100.8 PK			2.68 H	122	57.9	42.9
2	*5550.00	90.7 AV			2.68 H	122	47.8	42.9
3	11100.00	63.4 PK	74.0	-10.6	1.45 H	287	39.2	24.2
4	11100.00	50.2 AV	54.0	-3.8	1.45 H	287	26.0	24.2

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	*5550.00	99.1 PK			1.32 V	102	56.2	42.9
2	*5550.00	89.1 AV			1.32 V	102	46.2	42.9
3	11100.00	63.2 PK	74.0	-10.8	2.15 V	167	39.0	24.2
4	11100.00	50.0 AV	54.0	-4.0	2.15 V	167	25.8	24.2

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 (HTE40)	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	100.7 PK			2.65 H	122	57.7	43.0
2	*5670.00	90.5 AV			2.65 H	122	47.5	43.0
3	#5725.00	63.0 PK	68.2	-5.2	2.65 H	122	49.5	13.5
4	11340.00	64.1 PK	74.0	-9.9	1.55 H	297	39.2	24.9
5	11340.00	51.0 AV	54.0	-3.0	1.55 H	297	26.1	24.9

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	*5670.00	97.9 PK			1.31 V	92	54.9	43.0
2	*5670.00	88.2 AV			1.31 V	92	45.2	43.0
3	#5725.00	63.0 PK	68.2	-5.2	1.31 V	92	49.5	13.5
4	11340.00	63.7 PK	74.0	-10.3	2.02 V	169	38.8	24.9
5	11340.00	50.6 AV	54.0	-3.4	2.02 V	169	25.7	24.9

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 (HTE40)	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	61.5 PK	68.2	-6.7	2.64 H	124	48.1	13.4
2	*5710.00	99.7 PK			2.64 H	124	56.6	43.1
3	*5710.00	89.9 AV			2.64 H	124	46.8	43.1
4	#5850.00	63.6 PK	68.2	-4.6	2.64 H	124	49.5	14.1
5	11420.00	64.3 PK	74.0	-9.7	1.58 H	295	39.1	25.2
6	11420.00	51.3 AV	54.0	-2.7	1.58 H	295	26.1	25.2

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	#5470.00	61.2 PK	68.2	-7.0	1.41 V	96	47.8	13.4
2	*5710.00	97.3 PK			1.41 V	96	54.2	43.1
3	*5710.00	87.3 AV			1.41 V	96	44.2	43.1
4	#5850.00	63.7 PK	68.2	-4.5	1.41 V	96	49.6	14.1
5	11420.00	64.0 PK	74.0	-10.0	2.25 V	168	38.8	25.2
6	11420.00	50.9 AV	54.0	-3.1	2.25 V	168	25.7	25.2

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

RF Mode	TX 802.11ax (HTE40)	Channel	CH 151 : 5755 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	#5641.60	59.0 PK	68.2	-9.2	2.58 H	120	45.6	13.4
2	*5755.00	99.7 PK			2.58 H	120	56.2	43.5
3	*5755.00	90.1 AV			2.58 H	120	46.6	43.5
4	#5982.40	60.6 PK	68.2	-7.6	2.58 H	120	46.4	14.2
5	11510.00	64.3 PK	74.0	-9.7	1.65 H	288	39.2	25.1
6	11510.00	51.1 AV	54.0	-2.9	1.65 H	288	26.0	25.1

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	#5626.00	60.1 PK	68.2	-8.1	1.05 V	92	46.7	13.4
2	*5755.00	97.1 PK			1.05 V	92	53.6	43.5
3	*5755.00	87.5 AV			1.05 V	92	44.0	43.5
4	#5950.80	61.1 PK	68.2	-7.1	1.05 V	92	46.9	14.2
5	11510.00	64.2 PK	74.0	-9.8	2.13 V	174	39.1	25.1
6	11510.00	51.0 AV	54.0	-3.0	2.13 V	174	25.9	25.1

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 (HTE40)	Channel	CH 159 : 5795 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	#5648.40	60.1 PK	68.2	-8.1	2.60 H	121	46.8	13.3
2	*5795.00	100.2 PK			2.60 H	121	56.4	43.8
3	*5795.00	90.1 AV			2.60 H	121	46.3	43.8
4	#5985.60	60.8 PK	68.2	-7.4	2.60 H	121	46.6	14.2
5	11590.00	64.0 PK	74.0	-10.0	1.62 H	287	39.3	24.7
6	11590.00	50.8 AV	54.0	-3.2	1.62 H	287	26.1	24.7

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	#5604.40	59.8 PK	68.2	-8.4	1.05 V	102	46.5	13.3
2	*5795.00	97.0 PK			1.05 V	102	53.2	43.8
3	*5795.00	86.8 AV			1.05 V	102	43.0	43.8
4	#5964.80	60.8 PK	68.2	-7.4	1.05 V	102	46.6	14.2
5	11590.00	63.8 PK	74.0	-10.2	2.11 V	169	39.1	24.7
6	11590.00	50.7 AV	54.0	-3.3	2.11 V	169	26.0	24.7

Remarks:

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

RF Mode	TX 802.11ax (HTE80)	Channel	CH 42 : 5210 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	59.5 PK	74.0	-14.5	2.20 H	182	46.6	12.9
2	5150.00	47.3 AV	54.0	-6.7	2.20 H	182	34.4	12.9
3	*5210.00	95.1 PK			2.20 H	182	52.9	42.2
4	*5210.00	85.7 AV			2.20 H	182	43.5	42.2
5	5350.00	59.8 PK	74.0	-14.2	2.20 H	182	46.8	13.0
6	5350.00	47.5 AV	54.0	-6.5	2.20 H	182	34.5	13.0
7	#10420.00	62.6 PK	68.2	-5.6	1.46 H	299	39.7	22.9

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	5150.00	59.0 PK	74.0	-15.0	1.14 V	102	46.1	12.9
2	5150.00	46.6 AV	54.0	-7.4	1.14 V	102	33.7	12.9
3	*5210.00	93.9 PK			1.14 V	102	51.7	42.2
4	*5210.00	84.5 AV			1.14 V	102	42.3	42.2
5	5350.00	59.2 PK	74.0	-14.8	1.14 V	102	46.2	13.0
6	5350.00	46.9 AV	54.0	-7.1	1.14 V	102	33.9	13.0
7	#10420.00	62.1 PK	68.2	-6.1	2.16 V	155	39.2	22.9

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 (HTE80)	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	59.4 PK	74.0	-14.6	2.13 H	180	46.5	12.9
2	5150.00	47.2 AV	54.0	-6.8	2.13 H	180	34.3	12.9
3	*5290.00	96.9 PK			2.13 H	180	54.6	42.3
4	*5290.00	86.5 AV			2.13 H	180	44.2	42.3
5	5350.00	59.4 PK	74.0	-14.6	2.13 H	180	46.4	13.0
6	5350.00	47.2 AV	54.0	-6.8	2.13 H	180	34.2	13.0
7	#10580.00	63.1 PK	68.2	-5.1	1.33 H	271	39.7	23.4

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	59.1 PK	74.0	-14.9	1.07 V	103	46.2	12.9
2	5150.00	46.7 AV	54.0	-7.3	1.07 V	103	33.8	12.9
3	*5290.00	95.5 PK			1.07 V	103	53.2	42.3
4	*5290.00	85.3 AV			1.07 V	103	43.0	42.3
5	5350.00	59.3 PK	74.0	-14.7	1.07 V	103	46.3	13.0
6	5350.00	46.7 AV	54.0	-7.3	1.07 V	103	33.7	13.0
7	#10580.00	62.6 PK	68.2	-5.6	2.24 V	163	39.2	23.4

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 (HTE80)	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	60.7 PK	74.0	-13.3	2.64 H	119	47.5	13.2
2	5460.00	47.7 AV	54.0	-6.3	2.64 H	119	34.5	13.2
3	#5470.00	61.4 PK	68.2	-6.8	2.64 H	119	48.0	13.4
4	*5530.00	96.0 PK			2.64 H	119	53.1	42.9
5	*5530.00	86.0 AV			2.64 H	119	43.1	42.9
6	#5725.00	62.7 PK	68.2	-5.5	2.64 H	119	49.2	13.5
7	11060.00	63.3 PK	74.0	-10.7	1.52 H	293	39.1	24.2
8	11060.00	50.2 AV	54.0	-3.8	1.52 H	293	26.0	24.2

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	5460.00	60.7 PK	74.0	-13.3	1.30 V	94	47.5	13.2
2	5460.00	47.7 AV	54.0	-6.3	1.30 V	94	34.5	13.2
3	#5470.00	61.5 PK	68.2	-6.7	1.30 V	94	48.1	13.4
4	*5530.00	95.4 PK			1.30 V	94	52.5	42.9
5	*5530.00	85.6 AV			1.30 V	94	42.7	42.9
6	#5725.00	63.7 PK	68.2	-4.5	1.30 V	94	50.2	13.5
7	11060.00	63.0 PK	74.0	-11.0	2.05 V	163	38.8	24.2
8	11060.00	49.9 AV	54.0	-4.1	2.05 V	163	25.7	24.2

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

RF Mode	TX 802.11ax (HTE80)	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	61.0 PK	74.0	-13.0	2.64 H	118	47.8	13.2
2	5460.00	47.7 AV	54.0	-6.3	2.64 H	118	34.5	13.2
3	#5470.00	61.4 PK	68.2	-6.8	2.64 H	118	48.0	13.4
4	*5610.00	97.0 PK			2.64 H	118	54.0	43.0
5	*5610.00	87.6 AV			2.64 H	118	44.6	43.0
6	#5725.00	62.9 PK	68.2	-5.3	2.64 H	118	49.4	13.5
7	11220.00	63.4 PK	74.0	-10.6	1.58 H	298	39.1	24.3
8	11220.00	50.4 AV	54.0	-3.6	1.58 H	298	26.1	24.3

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	60.5 PK	74.0	-13.5	1.27 V	94	47.3	13.2
2	5460.00	47.6 AV	54.0	-6.4	1.27 V	94	34.4	13.2
3	#5470.00	61.4 PK	68.2	-6.8	1.27 V	94	48.0	13.4
4	*5610.00	96.2 PK			1.27 V	94	53.2	43.0
5	*5610.00	85.9 AV			1.27 V	94	42.9	43.0
6	#5725.00	63.6 PK	68.2	-4.6	1.27 V	94	50.1	13.5
7	11220.00	63.2 PK	74.0	-10.8	2.15 V	167	38.9	24.3
8	11220.00	50.1 AV	54.0	-3.9	2.15 V	167	25.8	24.3

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 (HTE80)	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	61.2 PK	68.2	-7.0	2.61 H	120	47.8	13.4
2	*5690.00	97.3 PK			2.61 H	120	54.3	43.0
3	*5690.00	87.2 AV			2.61 H	120	44.2	43.0
4	#5850.00	63.8 PK	68.2	-4.4	2.61 H	120	49.7	14.1
5	11380.00	64.1 PK	74.0	-9.9	1.54 H	286	39.1	25.0
6	11380.00	51.2 AV	54.0	-2.8	1.54 H	286	26.2	25.0

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	61.4 PK	68.2	-6.8	1.25 V	96	48.0	13.4
2	*5690.00	95.2 PK			1.25 V	96	52.2	43.0
3	*5690.00	85.4 AV			1.25 V	96	42.4	43.0
4	#5850.00	63.6 PK	68.2	-4.6	1.25 V	96	49.5	14.1
5	11380.00	64.0 PK	74.0	-10.0	2.11 V	165	39.0	25.0
6	11380.00	50.9 AV	54.0	-3.1	2.11 V	165	25.9	25.0

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 (HTE80)	Channel	CH 155 : 5775 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	#5611.60	59.6 PK	68.2	-8.6	2.58 H	120	46.2	13.4
2	*5775.00	97.0 PK			2.58 H	120	53.4	43.6
3	*5775.00	87.2 AV			2.58 H	120	43.6	43.6
4	#5964.40	60.6 PK	68.2	-7.6	2.58 H	120	46.4	14.2
5	11550.00	64.2 PK	74.0	-9.8	1.59 H	285	39.2	25.0
6	11550.00	51.1 AV	54.0	-2.9	1.59 H	285	26.1	25.0

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	#5631.60	59.4 PK	68.2	-8.8	1.06 V	91	46.0	13.4
2	*5775.00	95.8 PK			1.06 V	91	52.2	43.6
3	*5775.00	84.8 AV			1.06 V	91	41.2	43.6
4	#5954.80	60.9 PK	68.2	-7.3	1.06 V	91	46.7	14.2
5	11550.00	64.0 PK	74.0	-10.0	2.13 V	165	39.0	25.0
6	11550.00	50.9 AV	54.0	-3.1	2.13 V	165	25.9	25.0

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 (HE160)	Channel	CH 50 : 5250 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	60.2 PK	74.0	-13.8	2.59 H	121	47.3	12.9
2	5150.00	47.5 AV	54.0	-6.5	2.59 H	121	34.6	12.9
3	*5250.00	94.7 PK			2.59 H	121	52.5	42.2
4	*5250.00	84.4 AV			2.59 H	121	42.2	42.2
5	5350.00	63.5 PK	74.0	-10.5	2.59 H	121	50.5	13.0
6	5350.00	49.9 AV	54.0	-4.1	2.59 H	121	36.9	13.0
7	#10500.00	62.4 PK	68.2	-5.8	1.57 H	288	39.4	23.0

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	5150.00	60.1 PK	74.0	-13.9	1.07 V	117	47.2	12.9
2	5150.00	47.6 AV	54.0	-6.4	1.07 V	117	34.7	12.9
3	*5250.00	93.6 PK			1.07 V	117	51.4	42.2
4	*5250.00	83.7 AV			1.07 V	117	41.5	42.2
5	5350.00	62.0 PK	74.0	-12.0	1.07 V	117	49.0	13.0
6	5350.00	49.4 AV	54.0	-4.6	1.07 V	117	36.4	13.0
7	#10500.00	62.1 PK	68.2	-6.1	2.21 V	159	39.1	23.0

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 (HE160)	Channel	CH 114 : 5570 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	60.9 PK	74.0	-13.1	2.54 H	125	47.7	13.2
2	5460.00	48.4 AV	54.0	-5.6	2.54 H	125	35.2	13.2
3	#5470.00	61.8 PK	68.2	-6.4	2.54 H	125	48.4	13.4
4	*5570.00	94.0 PK			2.54 H	125	51.1	42.9
5	*5570.00	83.8 AV			2.54 H	125	40.9	42.9
6	#5725.00	62.9 PK	68.2	-5.3	2.54 H	125	49.4	13.5
7	11140.00	63.4 PK	74.0	-10.6	1.55 H	284	39.2	24.2
8	11140.00	50.4 AV	54.0	-3.6	1.55 H	284	26.2	24.2

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	5460.00	61.2 PK	74.0	-12.8	1.05 V	95	48.0	13.2
2	5460.00	48.3 AV	54.0	-5.7	1.05 V	95	35.1	13.2
3	#5470.00	61.3 PK	68.2	-6.9	1.05 V	95	47.9	13.4
4	*5570.00	92.6 PK			1.05 V	95	49.7	42.9
5	*5570.00	82.8 AV			1.05 V	95	39.9	42.9
6	#5725.00	63.5 PK	68.2	-4.7	1.05 V	95	50.0	13.5
7	11140.00	63.1 PK	74.0	-10.9	2.05 V	165	38.9	24.2
8	11140.00	49.9 AV	54.0	-4.1	2.05 V	165	25.7	24.2

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

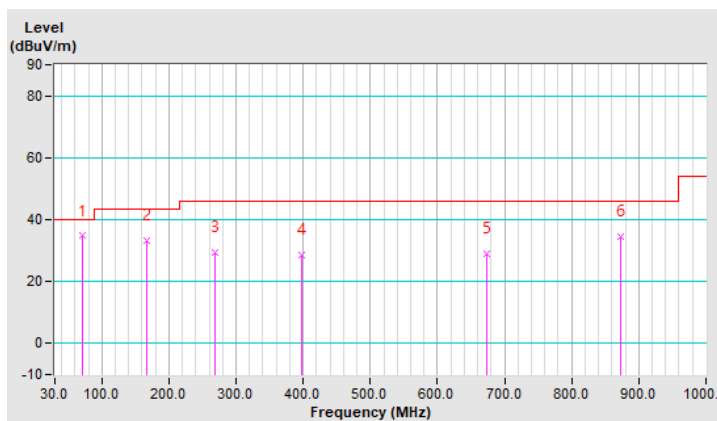
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	9kHz ~ 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	71.71	34.7 QP	40.0	-5.3	3.16 H	221	50.0	-15.3
2	167.75	33.2 QP	43.5	-10.3	3.93 H	299	46.1	-12.9
3	267.67	29.4 QP	46.0	-16.6	1.41 H	251	43.0	-13.6
4	398.64	28.6 QP	46.0	-17.4	1.68 H	258	38.0	-9.4
5	673.18	28.8 QP	46.0	-17.2	3.38 H	288	30.9	-2.1
6	873.02	34.5 QP	46.0	-11.5	3.55 H	171	33.2	1.3

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
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.

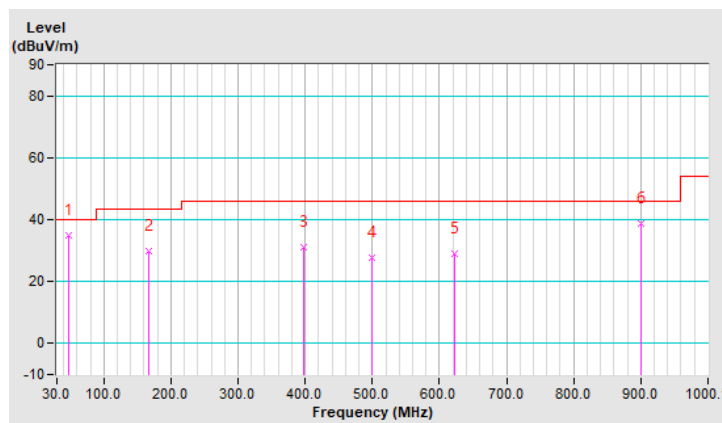


RF Mode	TX 802.11ax (HE80)	Channel	CH 58 : 5290 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

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	48.43	34.9 QP	40.0	-5.1	1.16 V	275	47.4	-12.5
2	167.75	29.7 QP	43.5	-13.8	2.55 V	346	42.6	-12.9
3	398.64	31.0 QP	46.0	-15.0	1.15 V	300	40.4	-9.4
4	498.56	27.7 QP	46.0	-18.3	2.16 V	316	33.8	-6.1
5	622.73	29.1 QP	46.0	-16.9	3.75 V	183	32.0	-2.9
6	900.18	38.6 QP	46.0	-7.4	2.08 V	281	37.0	1.6

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
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	100613	Dec. 03, 2021	Dec. 02, 2022
RF signal cable Woken	5D-FB	Cable-cond1-01	Jan. 15, 2022	Jan. 14, 2023
LISN/AMN ROHDE & SCHWARZ (EUT)	ENV216	101826	Mar. 14, 2022	Mar. 13, 2023
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Sep. 07, 2021	Sep. 06, 2022
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. Tested date: Apr. 28, 2022

4.2.3 Test Procedures

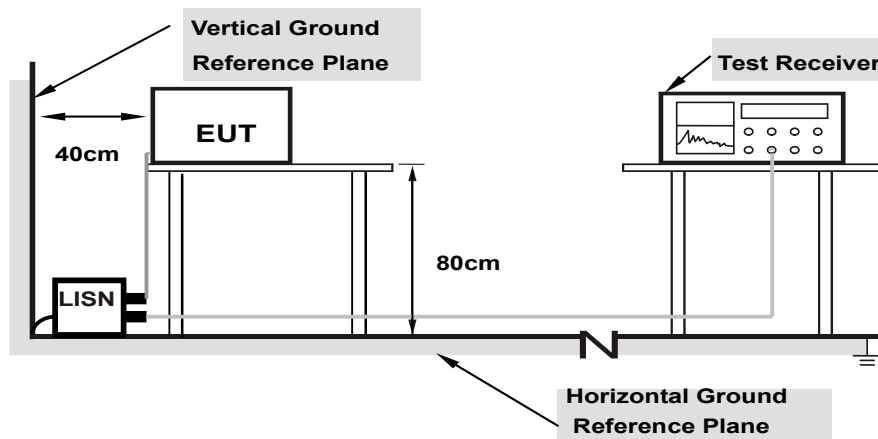
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- 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:

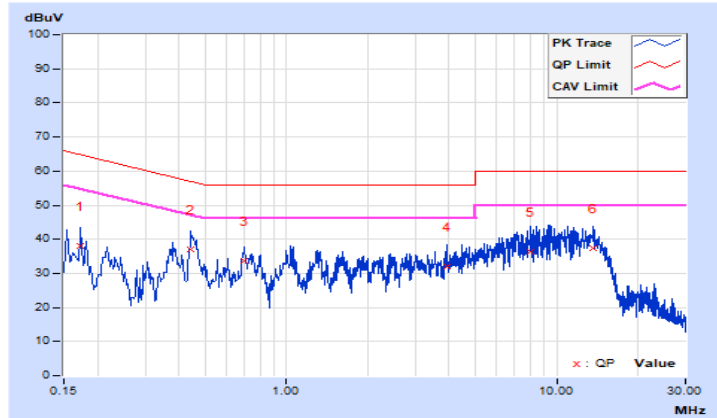
802.11ax (HE80)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.17346	9.63	28.35	10.42	37.98	20.05	64.79
2	0.44325	9.69	27.23	18.25	36.92	27.94	57.00	47.00	-20.08	-19.06
3	0.69740	9.69	24.11	9.47	33.80	19.16	56.00	46.00	-22.20	-26.84
4	3.91924	9.75	22.35	8.42	32.10	18.17	56.00	46.00	-23.90	-27.83
5	8.00910	9.79	26.65	12.18	36.44	21.97	60.00	50.00	-23.56	-28.03
6	13.70597	9.84	27.45	12.50	37.29	22.34	60.00	50.00	-22.71	-27.66

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.

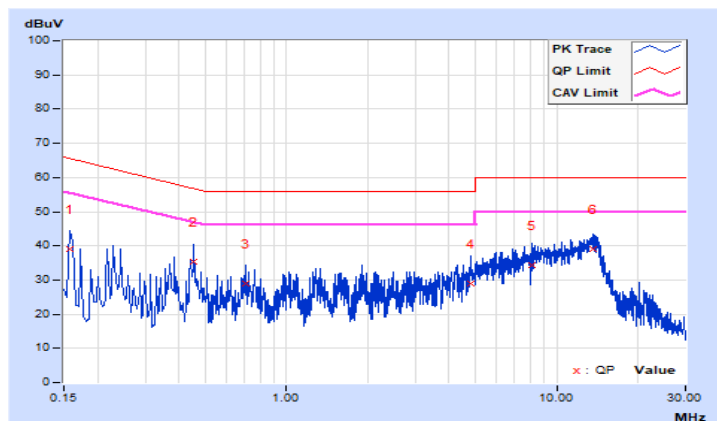


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.15782	9.62	29.29	11.67	38.91	21.29	65.58
2	0.45498	9.69	25.65	12.55	35.34	22.24	56.78	46.78	-21.44	-24.54
3	0.70913	9.70	19.38	5.31	29.08	15.01	56.00	46.00	-26.92	-30.99
4	4.81854	9.76	19.17	4.93	28.93	14.69	56.00	46.00	-27.07	-31.31
5	8.10685	9.79	24.41	9.13	34.20	18.92	60.00	50.00	-25.80	-31.08
6	13.65905	9.85	29.13	10.22	38.98	20.07	60.00	50.00	-21.02	-29.93

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 \leq 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 $N_{ANT} \leq 4$;

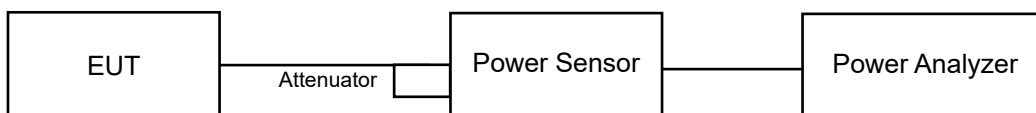
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

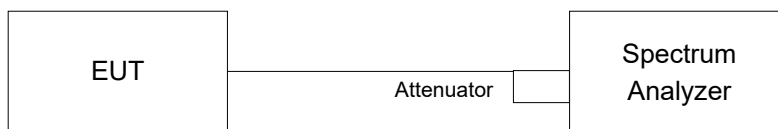
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



For 26dB Bandwidth and power output of transmission above 5.725 GHz where the EBW crosses 5.725 GHz



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 transmission above 5.725 GHz where the EBW crosses 5.725 GHz

For channel aggregation (channel 138, 142, 144) measurement refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section III Channel Aggregation subpart C. measurement procedures 2 and section II E 2 d) method SA-2.

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

For straddle channels, measured in accordance with FCC KDB 789033 UNII Test Procedure Method SA-2 and tested with a spectrum analyzer, if the duty cycle is less than 98%, the duty cycle factor is included in the total power. The duty cycle factor can be found in chapter 3.3 of the report.

Power Output:

802.11a

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.66	11.78	29.722	14.73	24.00	Pass
40	5200	11.78	11.84	30.342	14.82	24.00	Pass
48	5240	11.79	11.82	30.306	14.82	24.00	Pass
52	5260	11.78	11.85	30.377	14.83	23.90	Pass
60	5300	11.73	11.94	30.525	14.85	23.91	Pass
64	5320	11.57	11.98	30.131	14.79	23.92	Pass
100	5500	11.80	11.88	30.553	14.85	23.89	Pass
116	5580	11.65	11.94	30.253	14.81	23.91	Pass
140	5700	11.58	11.97	30.128	14.79	23.87	Pass
144	5720 (For U-NII-2C)	10.52	10.63	23.330	13.68	22.70	Pass
144	5720 (For U-NII-3)	4.17	4.31	5.426	7.34	30.00	Pass
149	5745	11.70	11.52	28.982	14.62	30.00	Pass
157	5785	11.88	11.74	30.345	14.82	30.00	Pass
165	5825	11.90	11.73	30.382	14.83	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(19.65) = 23.93 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(19.63) = 23.92 < 24\text{dBm}$
3. $11\text{dBm} + 10\log(19.59) = 23.92 < 24\text{dBm}$
4. $11\text{dBm} + 10\log(19.64) = 23.93 < 24\text{dBm}$
5. $11\text{dBm} + 10\log(19.58) = 23.91 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(19.59) = 23.92 < 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.96) = 22.77 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(19.51) = 23.90 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(19.55) = 23.91 < 24\text{dBm}$
3. $11\text{dBm} + 10\log(19.60) = 23.92 < 24\text{dBm}$
4. $11\text{dBm} + 10\log(19.49) = 23.89 < 24\text{dBm}$
5. $11\text{dBm} + 10\log(19.61) = 23.92 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(19.38) = 23.87 < 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.19) = 22.70 < 24\text{dBm}$

802.11n (HT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.73	11.76	29.890	14.76	24.00	Pass
40	5200	11.66	11.75	29.618	14.72	24.00	Pass
48	5240	11.71	11.78	29.891	14.76	24.00	Pass
52	5260	11.70	11.86	30.137	14.79	24.00	Pass
60	5300	11.64	11.72	29.447	14.69	24.00	Pass
64	5320	11.70	11.90	30.279	14.81	24.00	Pass
100	5500	11.84	11.86	30.622	14.86	24.00	Pass
116	5580	11.74	11.82	30.133	14.79	24.00	Pass
140	5700	11.52	11.88	29.608	14.71	24.00	Pass
144	5720 (For U-NII-2C)	10.51	10.25	21.839	13.39	22.99	Pass
144	5720 (For U-NII-3)	4.92	4.65	6.022	7.80	30.00	Pass
149	5745	11.64	11.58	28.976	14.62	30.00	Pass
157	5785	11.82	11.64	29.794	14.74	30.00	Pass
165	5825	11.85	11.63	29.865	14.75	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(21.63) = 24.35 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.88) = 24.40 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.53) = 24.33 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.32) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.17) = 22.99 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.47) = 24.31 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.74) = 24.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.35) = 24.29 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.26) = 24.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.33) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.15) = 23.00 < 24\text{dBm}$

802.11n (HT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	11.80	11.86	30.482	14.84	24.00	Pass
46	5230	11.76	11.85	30.308	14.82	24.00	Pass
54	5270	11.79	11.84	30.376	14.83	24.00	Pass
62	5310	11.75	11.92	30.522	14.85	24.00	Pass
102	5510	11.83	11.90	30.729	14.88	24.00	Pass
110	5550	11.78	11.83	30.307	14.82	24.00	Pass
134	5670	11.52	11.92	29.750	14.73	24.00	Pass
142	5710 (For U-NII-2C)	11.11	10.89	25.187	14.01	24.00	Pass
142	5710 (For U-NII-3)	0.93	0.68	2.408	3.82	30.00	Pass
151	5755	11.80	11.70	29.927	14.76	30.00	Pass
159	5795	11.83	11.74	30.168	14.80	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

802.11ac (VHT20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.75	11.87	30.344	14.82	24.00	Pass
40	5200	11.68	11.76	29.720	14.73	24.00	Pass
48	5240	11.73	11.79	29.994	14.77	24.00	Pass
52	5260	11.71	11.88	30.242	14.81	24.00	Pass
60	5300	11.66	11.74	29.583	14.71	24.00	Pass
64	5320	11.73	11.91	30.417	14.83	24.00	Pass
100	5500	11.85	11.90	30.799	14.89	24.00	Pass
116	5580	11.78	11.87	30.448	14.84	24.00	Pass
140	5700	11.53	11.90	29.711	14.73	24.00	Pass
144	5720 (For U-NII-2C)	10.53	10.28	21.964	13.42	22.99	Pass
144	5720 (For U-NII-3)	4.93	4.68	6.049	7.82	30.00	Pass
149	5745	11.66	11.64	29.244	14.66	30.00	Pass
157	5785	11.86	11.82	30.552	14.85	30.00	Pass
165	5825	11.88	11.82	30.622	14.86	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(21.63) = 24.35 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.88) = 24.40 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.53) = 24.33 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.32) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.17) = 22.99 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.47) = 24.31 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.74) = 24.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.35) = 24.29 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.26) = 24.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.33) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.15) = 23.00 < 24\text{dBm}$

802.11ac (VHT40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	11.82	11.90	30.694	14.87	24.00	Pass
46	5230	11.79	11.88	30.518	14.85	24.00	Pass
54	5270	11.81	11.86	30.517	14.85	24.00	Pass
62	5310	11.81	11.94	30.802	14.89	24.00	Pass
102	5510	11.84	11.93	30.871	14.90	24.00	Pass
110	5550	11.80	11.86	30.482	14.84	24.00	Pass
134	5670	11.54	11.95	29.924	14.76	24.00	Pass
142	5710 (For U-NII-2C)	11.15	10.93	25.420	14.05	24.00	Pass
142	5710 (For U-NII-3)	0.96	0.70	2.422	3.84	30.00	Pass
151	5755	11.81	11.73	30.064	14.78	30.00	Pass
159	5795	11.86	11.75	30.309	14.82	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	11.75	11.80	30.098	14.79	24.00	Pass
58	5290	11.70	11.89	30.244	14.81	24.00	Pass
106	5530	11.72	11.77	29.891	14.76	24.00	Pass
122	5610	11.51	11.85	29.469	14.69	24.00	Pass
138	5690 (For U-NII-2C)	11.15	11.07	25.825	14.12	24.00	Pass
138	5690 (For U-NII-3)	-2.78	-3.16	1.0103	0.04	30.00	Pass
155	5775	11.80	11.67	29.825	14.75	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.07) = 29.80 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5648.59) = 29.83 > 24\text{dBm}$

802.11ac (VHT160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	8.78	8.81	15.154	11.81	24.00	Pass
*50	5250 (U-NII-2A Band)	8.73	8.74	14.946	11.75	24.00	Pass
114	5570	11.84	11.92	30.835	14.89	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(84.67) = 30.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(84.30) = 30.25 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

Full RU

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.77	11.95	30.699	14.87	24.00	Pass
40	5200	11.69	11.78	29.823	14.75	24.00	Pass
48	5240	11.74	11.81	30.098	14.79	24.00	Pass
52	5260	11.73	11.89	30.346	14.82	24.00	Pass
60	5300	11.69	11.76	29.754	14.74	24.00	Pass
64	5320	11.74	11.99	30.740	14.88	24.00	Pass
100	5500	11.89	11.94	31.084	14.93	24.00	Pass
116	5580	11.81	11.93	30.766	14.88	24.00	Pass
140	5700	11.54	11.93	29.852	14.75	24.00	Pass
144	5720 (For U-NII-2C)	10.59	10.31	22.195	13.46	22.99	Pass
144	5720 (For U-NII-3)	4.94	4.70	6.070	7.83	30.00	Pass
149	5745	11.76	11.62	29.518	14.70	30.00	Pass
157	5785	11.88	11.83	30.658	14.87	30.00	Pass
165	5825	11.90	11.85	30.799	14.89	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(21.63) = 24.35 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.88) = 24.40 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.53) = 24.33 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.32) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.17) = 22.99 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.47) = 24.31 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.74) = 24.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.35) = 24.29 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.26) = 24.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.33) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.15) = 23.00 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	11.85	11.92	30.871	14.90	24.00	Pass
46	5230	11.81	11.90	30.659	14.87	24.00	Pass
54	5270	11.83	11.88	30.658	14.87	24.00	Pass
62	5310	11.83	11.96	30.944	14.91	24.00	Pass
102	5510	11.86	11.95	31.014	14.92	24.00	Pass
110	5550	11.81	11.88	30.588	14.86	24.00	Pass
134	5670	11.56	11.96	30.026	14.77	24.00	Pass
142	5710 (For U-NII-2C)	11.19	10.96	25.626	14.09	24.00	Pass
142	5710 (For U-NII-3)	1.00	0.72	2.439	3.87	30.00	Pass
151	5755	11.83	11.75	30.203	14.80	30.00	Pass
159	5795	11.88	11.79	30.518	14.85	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	11.79	11.83	30.341	14.82	24.00	Pass
58	5290	11.92	11.94	31.191	14.94	24.00	Pass
106	5530	11.86	11.88	30.763	14.88	24.00	Pass
122	5610	11.53	11.86	29.569	14.71	24.00	Pass
138	5690 (For U-NII-2C)	11.19	11.11	26.064	14.16	24.00	Pass
138	5690 (For U-NII-3)	-2.75	-3.13	1.0173	0.07	30.00	Pass
155	5775	11.82	11.70	29.997	14.77	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5649.07) = 29.80 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5648.59) = 29.83 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	8.82	8.86	15.312	11.85	24.00	Pass
*50	5250 (U-NII-2A Band)	8.81	8.82	15.224	11.83	24.00	Pass
114	5570	11.85	11.96	31.015	14.92	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(84.67) = 30.27 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

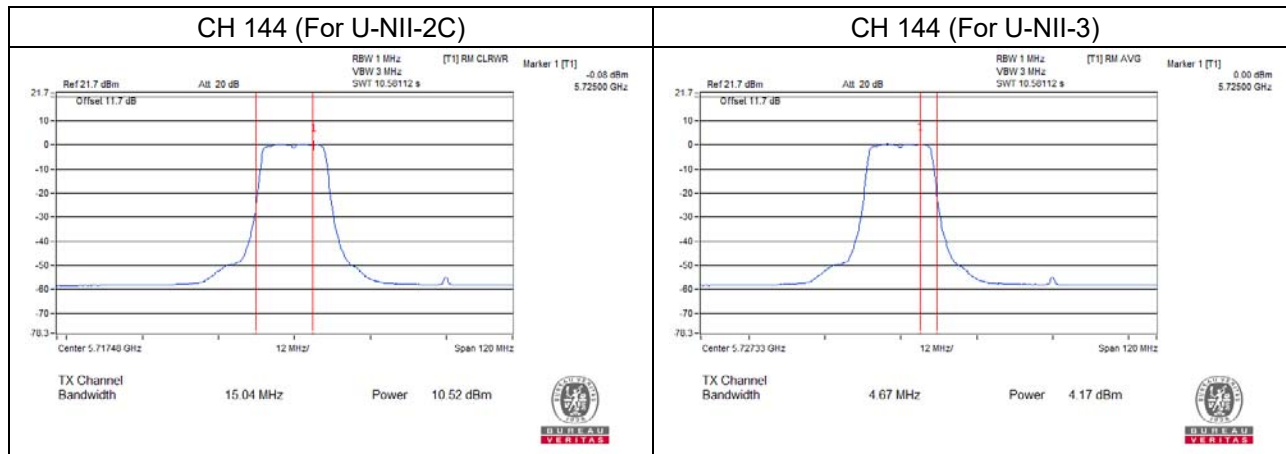
Chain 1

- $11\text{dBm} + 10\log(84.30) = 30.25 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

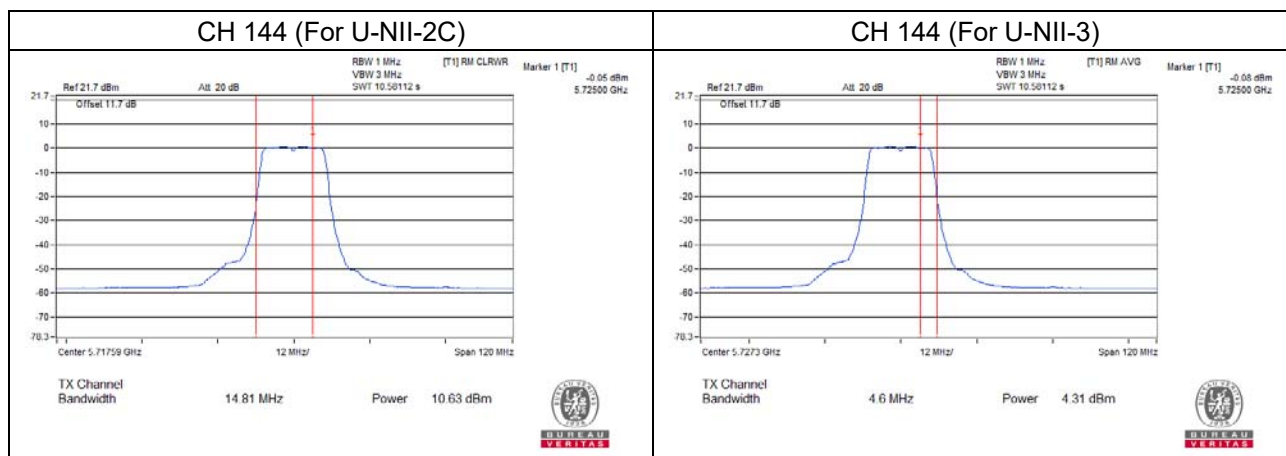
Straddle channel power plots:

802.11a

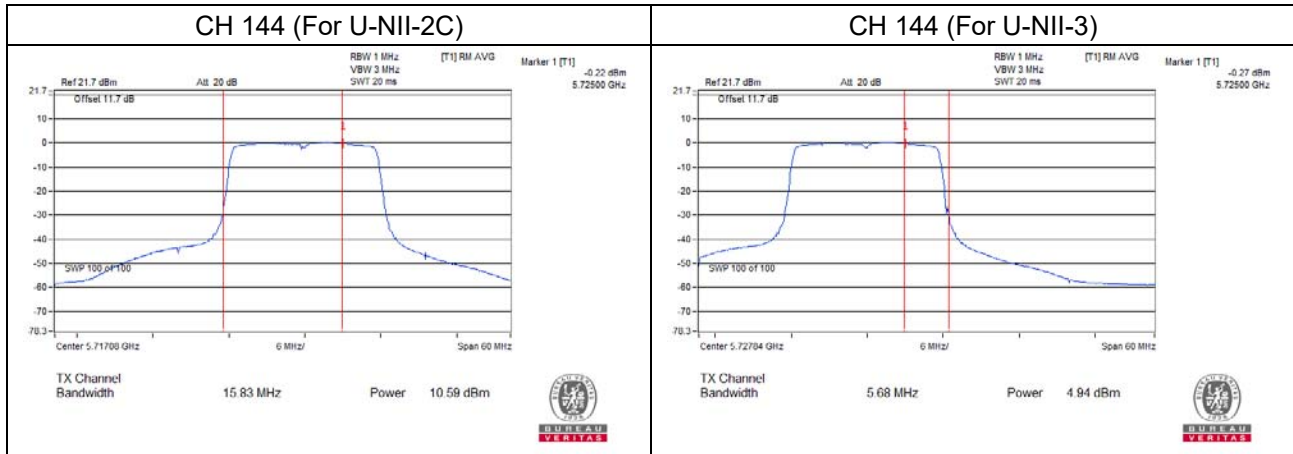
Chain 0



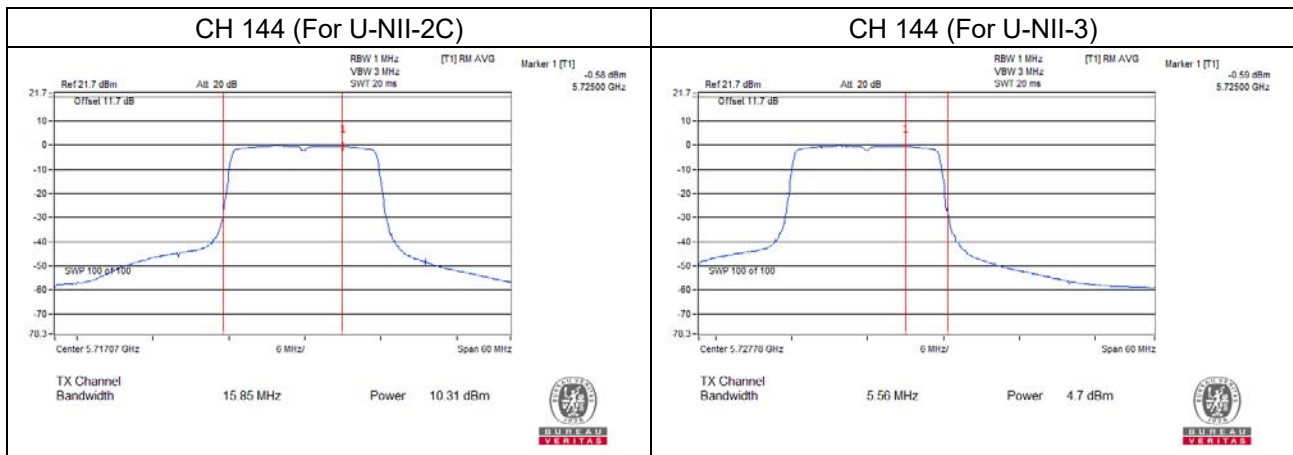
Chain 1



802.11ax (HE20)
Chain 0

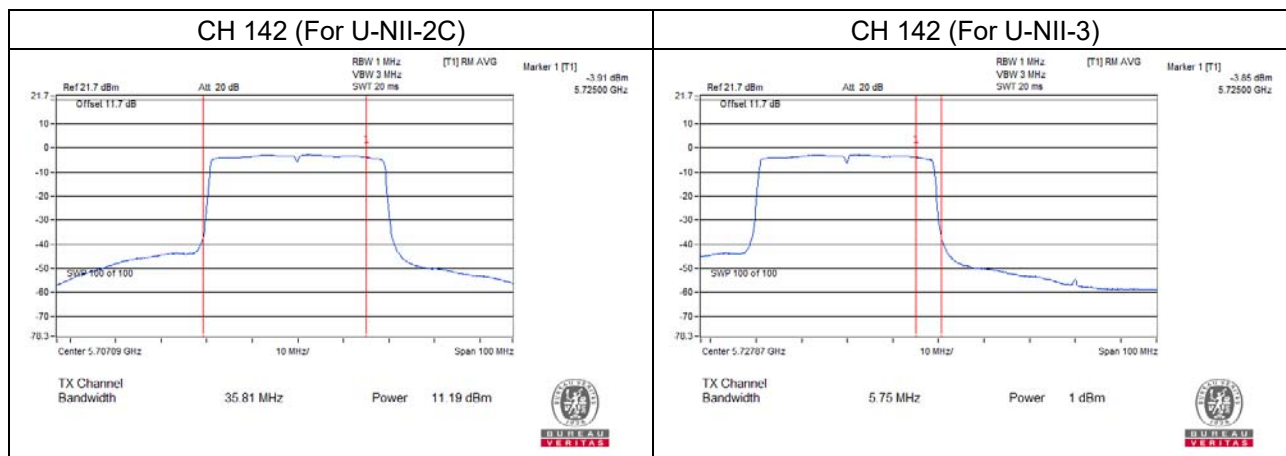


Chain 1

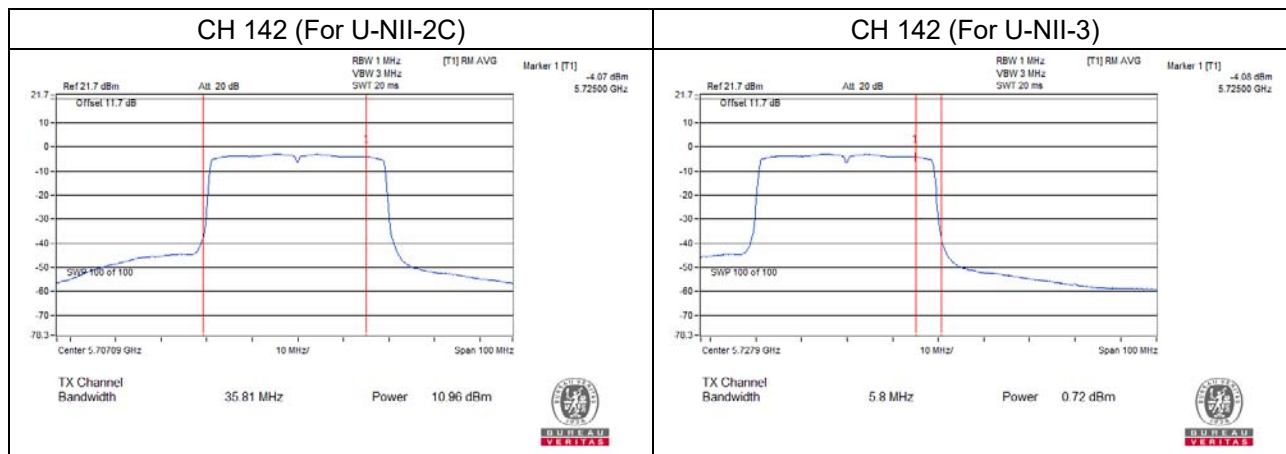


802.11ax (HE40)

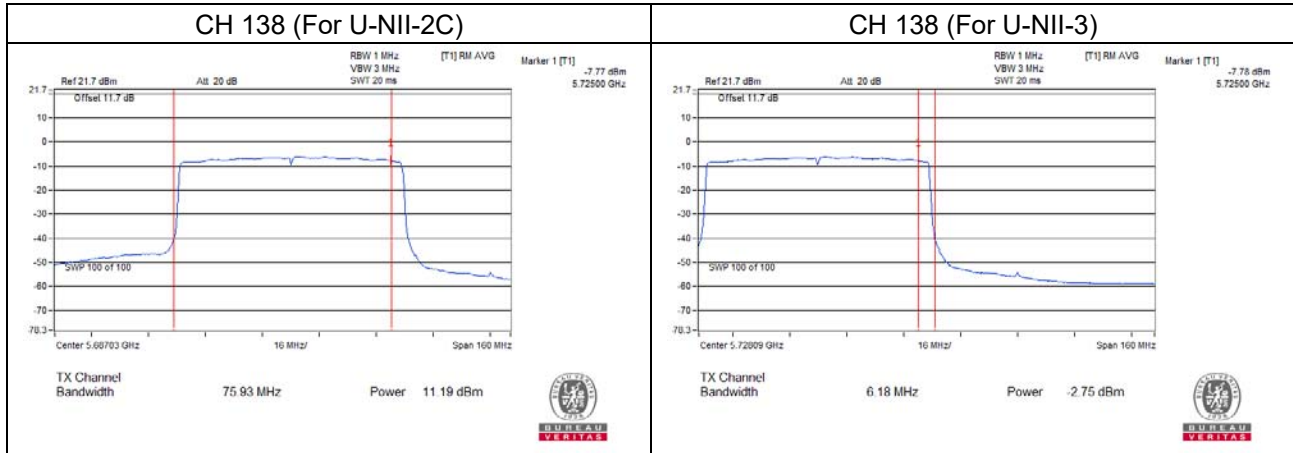
Chain 0



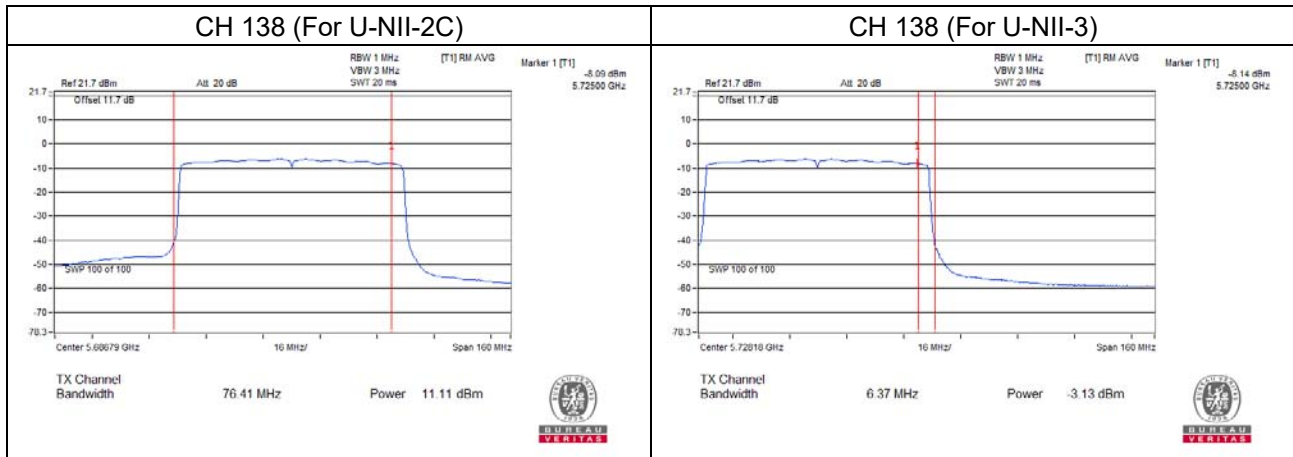
Chain 1



802.11ax (HE80)
Chain 0



Chain 1



Partial RU
RU26
802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	7.76	7.88	12.108	10.83	24.00	Pass
40	5200	7.68	7.79	11.873	10.75	24.00	Pass
48	5240	7.76	7.85	12.066	10.82	24.00	Pass
52	5260	7.74	7.86	12.052	10.81	24.00	Pass
60	5300	7.79	7.86	12.121	10.84	24.00	Pass
64	5320	7.81	7.94	12.262	10.89	24.00	Pass
100	5500	7.88	7.97	12.404	10.94	24.00	Pass
116	5580	7.89	7.95	12.389	10.93	24.00	Pass
140	5700	7.85	7.96	12.347	10.92	24.00	Pass
144	5720 (For U-NII-2C)	-19.99	-19.59	0.021	-16.78	22.61	Pass
144	5720 (For U-NII-3)	7.51	7.57	11.351	10.55	30.00	Pass
149	5745	7.82	7.89	12.205	10.87	30.00	Pass
157	5785	7.89	7.93	12.360	10.92	30.00	Pass
165	5825	7.90	7.97	12.432	10.95	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(21.11) = 24.24 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.06) = 24.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(20.74) = 24.16 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.04) = 24.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.19) = 24.26 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.31) = 24.28 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5710.42) = 22.63 < 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(20.82) = 24.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.23) = 24.26 > 24\text{dBm}$
- $11\text{dBm} + 10\log(20.88) = 24.19 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.00) = 24.22 > 24\text{dBm}$
- $11\text{dBm} + 10\log(20.87) = 24.19 > 24\text{dBm}$
- $11\text{dBm} + 10\log(20.97) = 24.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5710.49) = 22.61 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	7.88	7.96	12.389	10.93	24.00	Pass
46	5230	7.82	7.93	12.262	10.89	24.00	Pass
54	5270	7.89	7.94	12.375	10.93	24.00	Pass
62	5310	7.92	7.98	12.475	10.96	24.00	Pass
102	5510	7.87	7.96	12.375	10.93	24.00	Pass
110	5550	7.83	7.98	12.348	10.92	24.00	Pass
134	5670	7.90	7.99	12.461	10.96	24.00	Pass
142	5710 (For U-NII-2C)	-20.10	-20.06	0.020	-17.07	24.00	Pass
142	5710 (For U-NII-3)	7.53	7.59	11.404	10.57	30.00	Pass
151	5755	7.84	7.93	12.290	10.90	30.00	Pass
159	5795	7.87	7.96	12.375	10.93	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.12) = 26.42 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.20) = 26.41 > 24\text{dBm}$

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	7.80	7.91	12.206	10.87	24.00	Pass
58	5290	7.82	7.96	12.305	10.90	24.00	Pass
106	5530	7.83	7.94	12.290	10.90	24.00	Pass
122	5610	7.88	7.93	12.346	10.92	24.00	Pass
138	5690 (For U-NII-2C)	-20.21	-19.78	0.020	-16.98	24.00	Pass
138	5690 (For U-NII-3)	7.55	7.57	11.403	10.57	30.00	Pass
155	5775	7.83	7.91	12.248	10.88	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.51) = 29.72 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.46) = 29.72 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	7.45	7.80	11.585	10.64	24.00	Pass
*50	5250 (U-NII-2A Band)	-31.80	-32.73	0.001	-29.23	24.00	Pass
114	5570	7.76	7.83	12.038	10.81	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(87.38) = 30.41 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(88.04) = 30.44 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU52

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	7.74	7.86	12.052	10.81	24.00	Pass
40	5200	7.65	7.78	11.819	10.73	24.00	Pass
48	5240	7.71	7.79	11.914	10.76	24.00	Pass
52	5260	7.73	7.85	12.025	10.80	24.00	Pass
60	5300	7.72	7.81	11.955	10.78	24.00	Pass
64	5320	7.73	7.88	12.067	10.82	24.00	Pass
100	5500	7.83	7.95	12.305	10.90	24.00	Pass
116	5580	7.80	7.86	12.135	10.84	24.00	Pass
140	5700	7.83	7.94	12.290	10.90	24.00	Pass
144	5720 (For U-NII-2C)	-13.48	-12.93	0.096	-10.19	22.67	Pass
144	5720 (For U-NII-3)	7.34	7.58	11.148	10.47	30.00	Pass
149	5745	7.75	7.83	12.024	10.80	30.00	Pass
157	5785	7.76	7.90	12.136	10.84	30.00	Pass
165	5825	7.82	7.92	12.248	10.88	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(22.02) = 24.42 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.64) = 24.35 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.31) = 24.28 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.41) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.70) = 24.36 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.56) = 24.33 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.05) = 22.74 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.45) = 24.31 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.98) = 24.21 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.91) = 24.20 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.42) = 24.30 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.13) = 24.24 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.29) = 22.67 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	7.85	7.93	12.304	10.90	24.00	Pass
46	5230	7.80	7.89	12.177	10.86	24.00	Pass
54	5270	7.83	7.92	12.262	10.89	24.00	Pass
62	5310	7.90	7.95	12.403	10.94	24.00	Pass
102	5510	7.83	7.92	12.262	10.89	24.00	Pass
110	5550	7.76	7.89	12.122	10.84	24.00	Pass
134	5670	7.88	7.96	12.389	10.93	24.00	Pass
142	5710 (For U-NII-2C)	-4.92	-4.67	0.663	-1.78	24.00	Pass
142	5710 (For U-NII-3)	7.49	7.59	11.352	10.55	30.00	Pass
151	5755	7.82	7.91	12.234	10.88	30.00	Pass
159	5795	7.85	7.93	12.304	10.90	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.61) = 26.48 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.88) = 26.45 > 24\text{dBm}$

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	7.79	7.89	12.164	10.85	24.00	Pass
58	5290	7.80	7.94	12.249	10.88	24.00	Pass
106	5530	7.81	7.92	12.234	10.88	24.00	Pass
122	5610	7.86	7.91	12.290	10.90	24.00	Pass
138	5690 (For U-NII-2C)	-5.46	-5.66	0.556	-2.55	24.00	Pass
138	5690 (For U-NII-3)	7.26	7.55	11.010	10.42	30.00	Pass
155	5775	7.82	7.89	12.205	10.87	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5651.29) = 29.67 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.93) = 29.69 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	7.41	7.81	11.548	10.63	24.00	Pass
*50	5250 (U-NII-2A Band)	-32.28	-33.38	0.001	-29.78	24.00	Pass
114	5570	7.74	7.81	11.982	10.79	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(88.75) = 30.48 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(88.17) = 30.45 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU106

802.11ax (HE20)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	7.72	7.83	11.983	10.79	24.00	Pass
40	5200	7.64	7.73	11.737	10.70	24.00	Pass
48	5240	7.68	7.75	11.818	10.73	24.00	Pass
52	5260	7.71	7.83	11.969	10.78	24.00	Pass
60	5300	7.65	7.74	11.764	10.71	24.00	Pass
64	5320	7.70	7.85	11.984	10.79	24.00	Pass
100	5500	7.82	7.93	12.262	10.89	24.00	Pass
116	5580	7.78	7.83	12.065	10.82	24.00	Pass
140	5700	7.82	7.92	12.248	10.88	24.00	Pass
144	5720 (For U-NII-2C)	4.25	4.35	5.383	7.31	22.73	Pass
144	5720 (For U-NII-3)	4.83	5.11	6.284	7.98	30.00	Pass
149	5745	7.73	7.81	11.969	10.78	30.00	Pass
157	5785	7.74	7.85	12.038	10.81	30.00	Pass
165	5825	7.80	7.90	12.192	10.86	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(22.38) = 24.49 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(22.19) = 24.46 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.75) = 24.37 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(22.65) = 24.55 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(22.15) = 24.45 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(22.22) = 24.46 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.58) = 22.88 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.63) = 24.35 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.53) = 24.33 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.71) = 24.36 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(22.05) = 24.43 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.60) = 24.34 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.08) = 22.73 < 24\text{dBm}$

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	7.83	7.90	12.233	10.88	24.00	Pass
46	5230	7.78	7.85	12.093	10.83	24.00	Pass
54	5270	7.75	7.82	12.010	10.80	24.00	Pass
62	5310	7.83	7.92	12.262	10.89	24.00	Pass
102	5510	7.79	7.87	12.135	10.84	24.00	Pass
110	5550	7.74	7.88	12.081	10.82	24.00	Pass
134	5670	7.83	7.92	12.262	10.89	24.00	Pass
142	5710 (For U-NII-2C)	4.62	4.54	5.742	7.59	24.00	Pass
142	5710 (For U-NII-3)	4.25	4.38	5.402	7.33	30.00	Pass
151	5755	7.78	7.88	12.136	10.84	30.00	Pass
159	5795	7.83	7.90	12.233	10.88	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.15) = 26.42 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.23) = 26.53 > 24\text{dBm}$

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	7.78	7.88	12.136	10.84	24.00	Pass
58	5290	7.79	7.92	12.206	10.87	24.00	Pass
106	5530	7.79	7.90	12.178	10.86	24.00	Pass
122	5610	7.85	7.90	12.261	10.89	24.00	Pass
138	5690 (For U-NII-2C)	4.97	4.97	6.281	7.98	24.00	Pass
138	5690 (For U-NII-3)	4.44	4.51	5.605	7.49	30.00	Pass
155	5775	7.80	7.88	12.163	10.85	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5649.69) = 29.76 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5651.22) = 29.67 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	7.66	7.71	11.736	10.70	24.00	Pass
*50	5250 (U-NII-2A Band)	-33.15	-33.58	0.001	-30.35	24.00	Pass
114	5570	7.73	7.79	11.941	10.77	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(88.74) = 30.48 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(88.70) = 30.47 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU242

802.11ax (HE40)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	7.81	7.88	12.177	10.86	24.00	Pass
46	5230	7.77	7.82	12.038	10.81	24.00	Pass
54	5270	7.73	7.80	11.955	10.78	24.00	Pass
62	5310	7.80	7.87	12.149	10.85	24.00	Pass
102	5510	7.73	7.84	12.011	10.80	24.00	Pass
110	5550	7.73	7.87	12.053	10.81	24.00	Pass
134	5670	7.76	7.90	12.136	10.84	24.00	Pass
142	5710 (For U-NII-2C)	6.66	6.69	9.301	9.69	24.00	Pass
142	5710 (For U-NII-3)	0.90	1.02	2.495	3.97	30.00	Pass
151	5755	7.76	7.83	12.038	10.81	30.00	Pass
159	5795	7.78	7.88	12.136	10.84	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.58) = 26.73 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.44) = 26.74 > 24\text{dBm}$

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	7.76	7.86	12.080	10.82	24.00	Pass
58	5290	7.77	7.91	12.164	10.85	24.00	Pass
106	5530	7.78	7.89	12.150	10.85	24.00	Pass
122	5610	7.83	7.89	12.219	10.87	24.00	Pass
138	5690 (For U-NII-2C)	6.54	6.68	9.164	9.62	24.00	Pass
138	5690 (For U-NII-3)	0.76	1.00	2.450	3.89	30.00	Pass
155	5775	7.79	7.86	12.121	10.84	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.41) = 29.78 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.47) = 29.78 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	7.57	7.67	11.563	10.63	24.00	Pass
*50	5250 (U-NII-2A Band)	-33.62	-33.96	0.001	-30.78	24.00	Pass
114	5570	7.71	7.78	11.900	10.76	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(89.28) = 30.50 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(88.36) = 30.46 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU484

802.11ax (HE80)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	7.75	7.84	12.038	10.81	24.00	Pass
58	5290	7.75	7.90	12.123	10.84	24.00	Pass
106	5530	7.76	7.88	12.108	10.83	24.00	Pass
122	5610	7.81	7.86	12.149	10.85	24.00	Pass
138	5690 (For U-NII-2C)	6.91	7.18	10.133	10.06	24.00	Pass
138	5690 (For U-NII-3)	-2.34	-2.10	1.200	0.79	30.00	Pass
155	5775	7.76	7.84	12.052	10.81	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5649.13) = 29.80 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5649.06) = 29.80 > 24\text{dBm}$

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	7.42	7.50	11.144	10.47	24.00	Pass
*50	5250 (U-NII-2A Band)	-33.34	-33.14	0.001	-30.23	24.00	Pass
114	5570	7.70	7.76	11.859	10.74	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(87.42) = 30.41 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(89.45) = 30.51 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU996

802.11ax (HE160)

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
*50	5250 (U-NII-1 Band)	7.44	7.57	11.261	10.52	24.00	Pass
*50	5250 (U-NII-2A Band)	-28.33	-28.20	0.003	-25.25	24.00	Pass
114	5570	7.69	7.75	11.832	10.73	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(84.67) = 30.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(84.30) = 30.25 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

26dB Bandwidth:
802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.65	19.51
60	5300	19.63	19.55
64	5320	19.59	19.60
100	5500	19.64	19.49
116	5580	19.58	19.61
140	5700	19.59	19.38
144	5720 (For U-NII-2C)	15.04	14.81

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

Full RU

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.63	21.47
60	5300	21.88	21.74
64	5320	21.81	21.35
100	5500	21.38	21.26
116	5580	21.53	21.38
140	5700	21.32	21.33
144	5720 (For U-NII-2C)	15.83	15.85

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.37	41.69
62	5310	42.28	42.09
102	5510	42.34	42.17
110	5550	41.53	42.47
134	5670	41.97	41.89
142	5710 (For U-NII-2C)	35.81	35.81

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.24	83.37
106	5530	83.27	82.97
122	5610	83.84	83.44
138	5690 (For U-NII-2C)	75.93	76.41

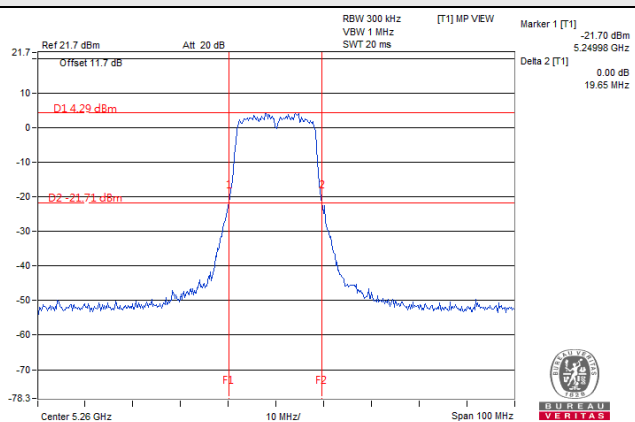
For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

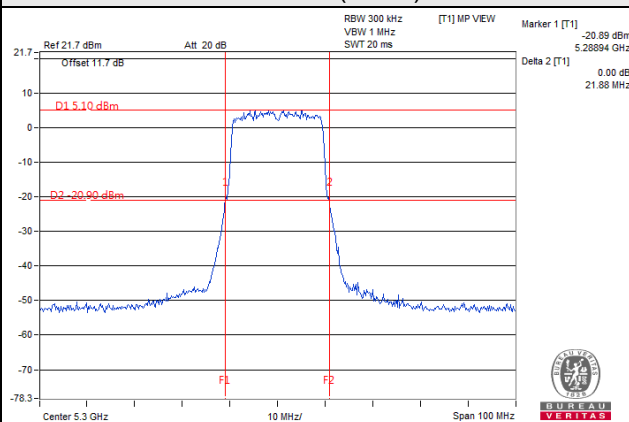
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	84.67	84.30
114	5570	169.33	169.69

Spectrum Plot of Worst Value

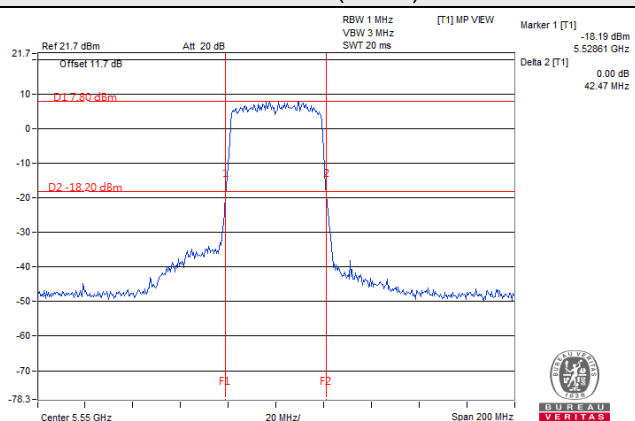
802.11a



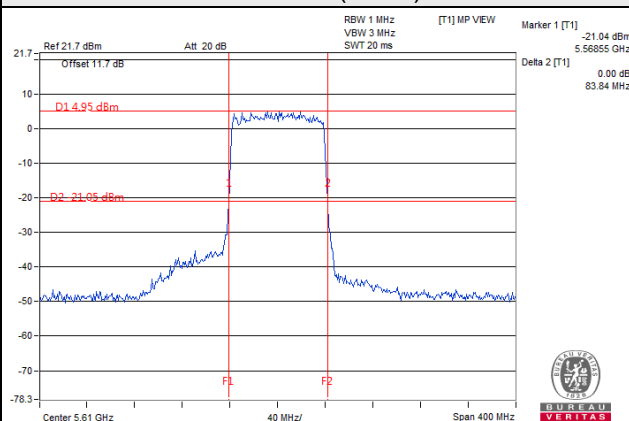
802.11ax (HE20)



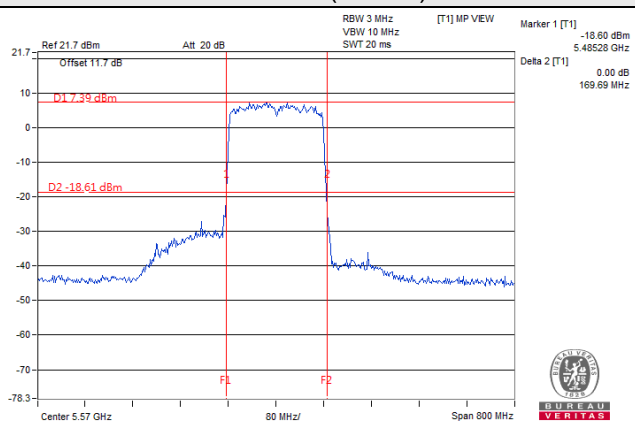
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



**Partial RU
RU26**

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	21.11	20.82
60	5300	21.06	21.23
64	5320	20.74	20.88
100	5500	21.04	21.00
116	5580	21.19	20.87
140	5700	21.31	20.97
144	5720 (For U-NII-2C)	14.58	14.51

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.37	41.69
62	5310	42.28	42.09
102	5510	42.34	42.17
110	5550	41.53	42.47
134	5670	41.97	41.89
142	5710 (For U-NII-2C)	34.88	34.80

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

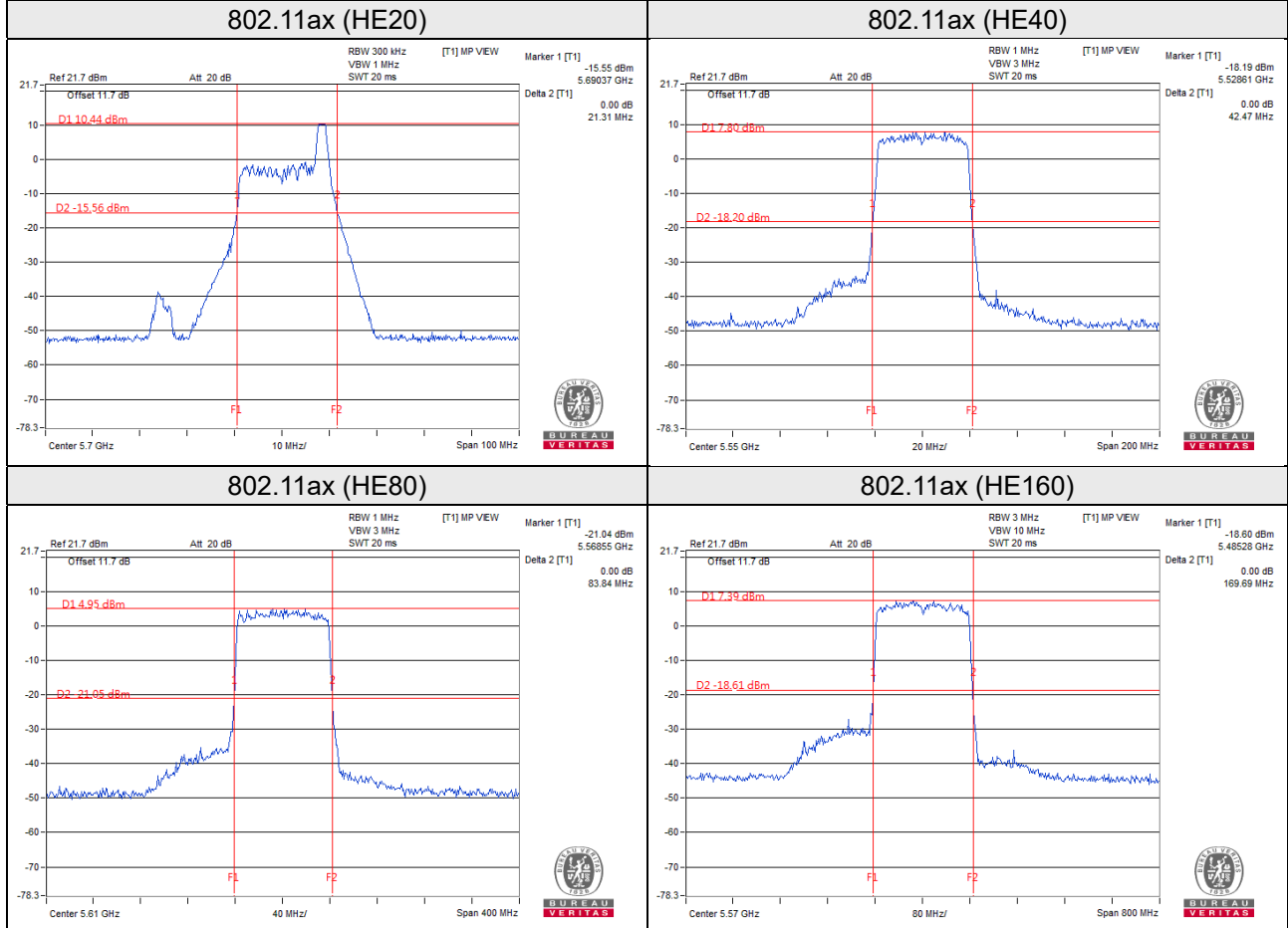
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.24	83.37
106	5530	83.27	82.97
122	5610	83.84	83.44
138	5690 (For U-NII-2C)	74.49	74.54

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	87.38	88.04
114	5570	169.33	169.69

Spectrum Plot of Worst Value



RU52

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	22.02	21.45
60	5300	21.64	20.98
64	5320	21.31	20.91
100	5500	21.41	21.38
116	5580	21.70	21.42
140	5700	21.56	21.13
144	5720 (For U-NII-2C)	14.95	14.71

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.37	41.69
62	5310	42.28	42.09
102	5510	42.34	42.17
110	5550	41.53	42.47
134	5670	41.97	41.89
142	5710 (For U-NII-2C)	35.39	35.12

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

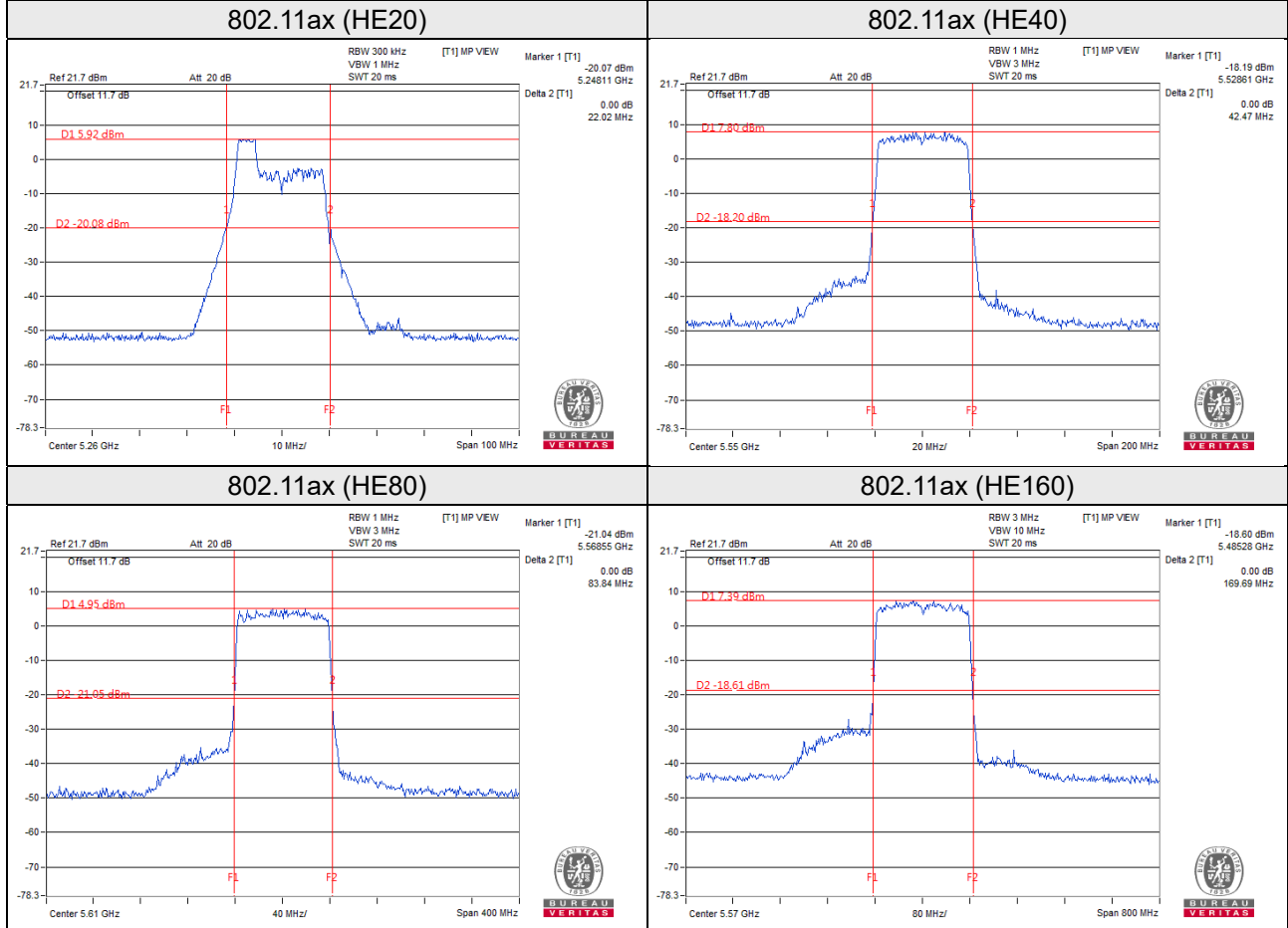
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.24	83.37
106	5530	83.27	82.97
122	5610	83.84	83.44
138	5690 (For U-NII-2C)	73.71	74.07

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	88.75	88.17
114	5570	169.33	169.69

Spectrum Plot of Worst Value



RU106

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	22.38	21.63
60	5300	22.19	21.53
64	5320	21.75	21.71
100	5500	22.65	22.05
116	5580	22.15	21.81
140	5700	22.22	21.60
144	5720 (For U-NII-2C)	15.42	14.92

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.37	41.69
62	5310	42.28	42.09
102	5510	42.34	42.17
110	5550	41.53	42.47
134	5670	41.97	41.89
142	5710 (For U-NII-2C)	34.85	35.77

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

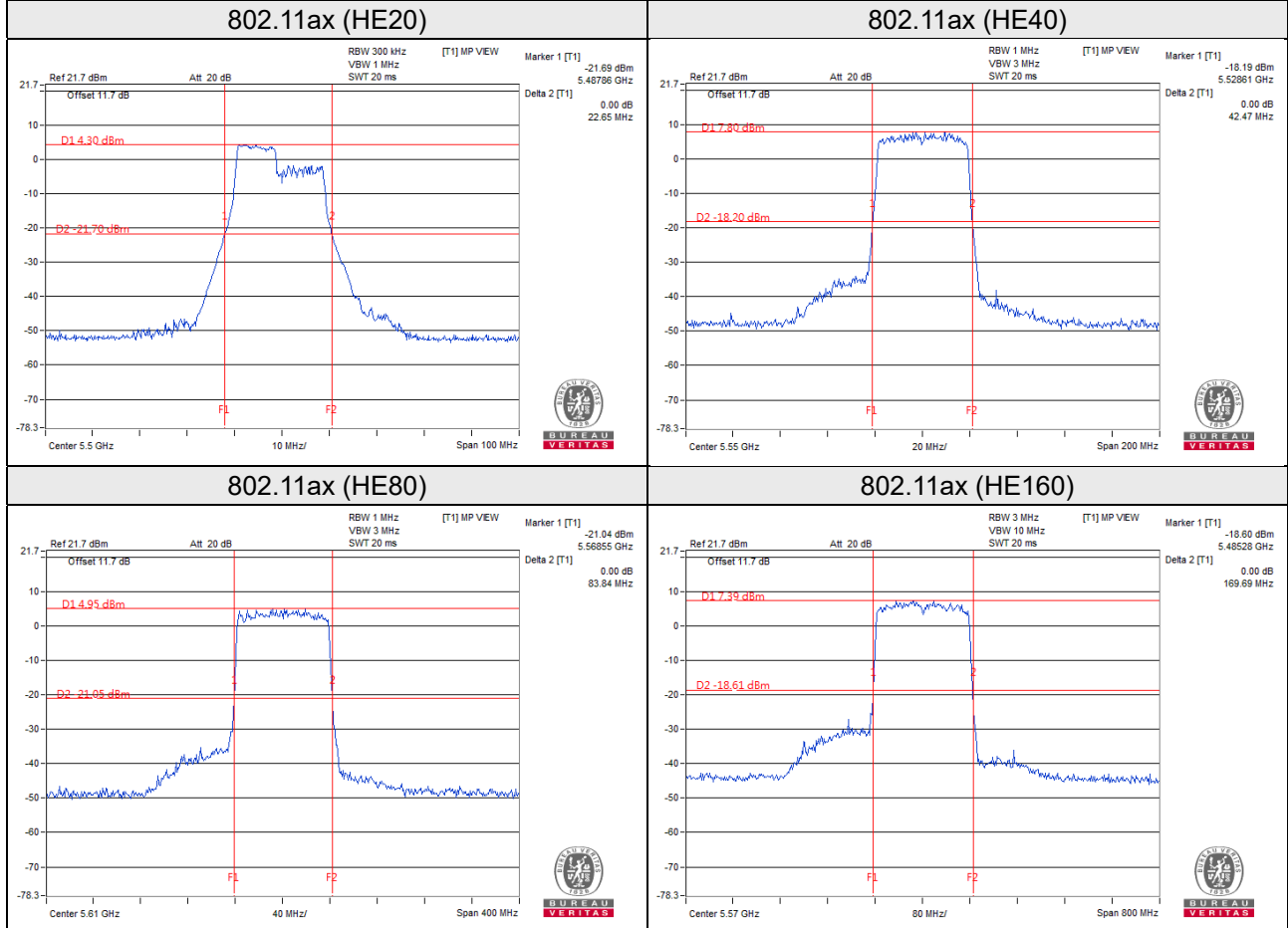
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.24	83.37
106	5530	83.27	82.97
122	5610	83.84	83.44
138	5690 (For U-NII-2C)	75.31	73.78

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	88.74	88.70
114	5570	169.33	169.69

Spectrum Plot of Worst Value



RU242

802.11ax (HE40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.37	41.69
62	5310	42.28	42.09
102	5510	42.34	42.17
110	5550	41.53	42.47
134	5670	41.97	41.89
142	5710 (For U-NII-2C)	37.42	37.56

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.24	83.37
106	5530	83.27	82.97
122	5610	83.84	83.44
138	5690 (For U-NII-2C)	75.59	75.53

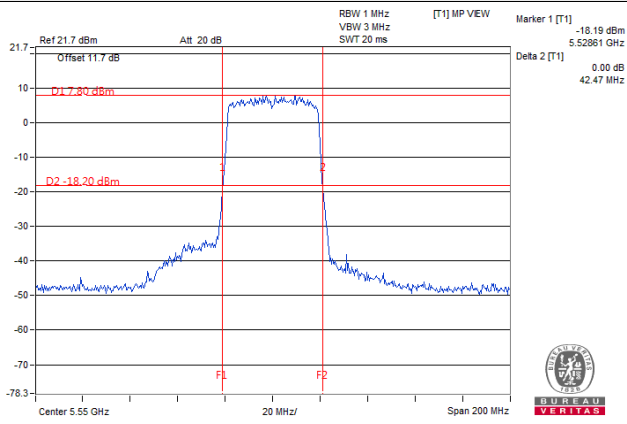
For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

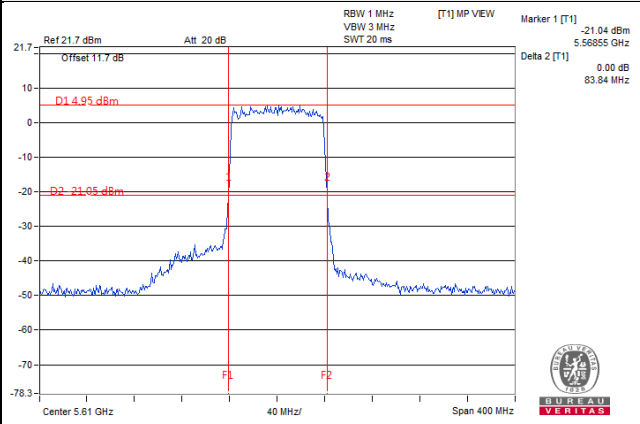
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	89.28	88.36
114	5570	169.33	169.69

Spectrum Plot of Worst Value

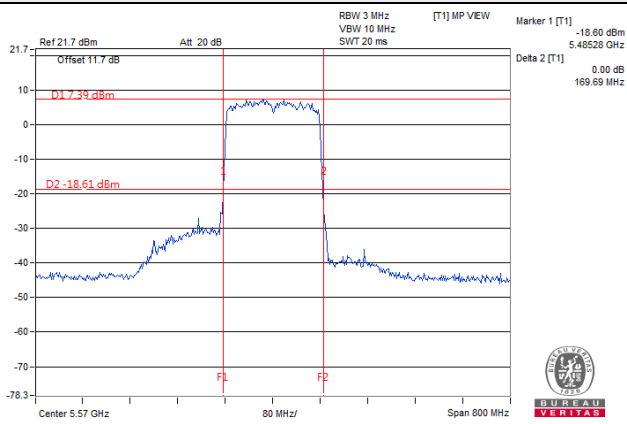
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



RU484

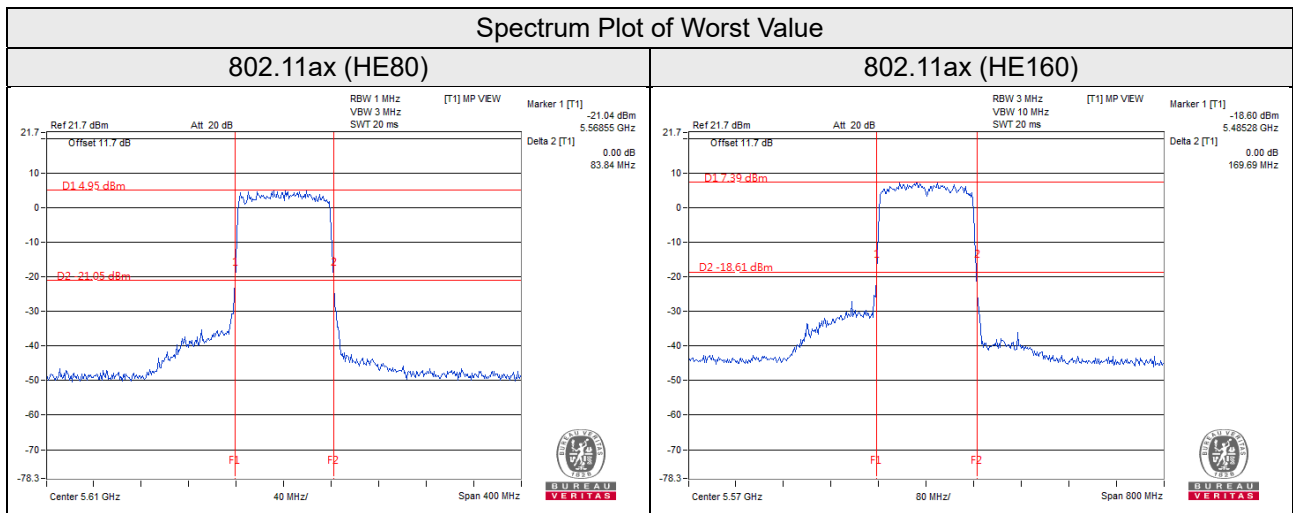
802.11ax (HE80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	83.24	83.37
106	5530	83.27	82.97
122	5610	83.84	83.44
138	5690 (For U-NII-2C)	75.87	75.94

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

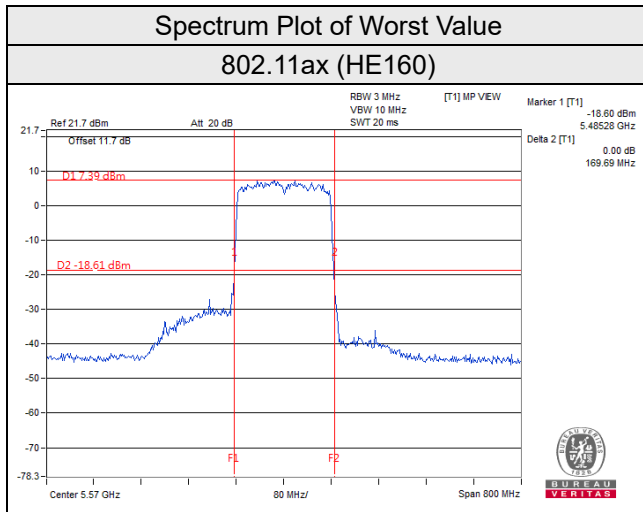
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	87.42	89.45
114	5570	169.33	169.69



RU996

802.11ax (HE160)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50	5250 (U-NII-2A Band)	88.58	87.09
114	5570	169.33	169.69



EUT Average Power

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.525	14.85
5470~5725	30.553	14.85

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.279	14.81
5470~5725	30.622	14.86

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.522	14.85
5470~5725	30.729	14.88

802.11ac (VHT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.417	14.83
5470~5725	30.799	14.89

802.11ac (VHT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.802	14.89
5470~5725	30.871	14.90

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.244	14.81
5470~5725	29.891	14.76

802.11ac (VHT160)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	14.946	11.75
5470~5725	30.835	14.89

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.740	14.88
5470~5725	31.084	14.93

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	30.944	14.91
5470~5725	31.014	14.92

802.11ax (HE80)

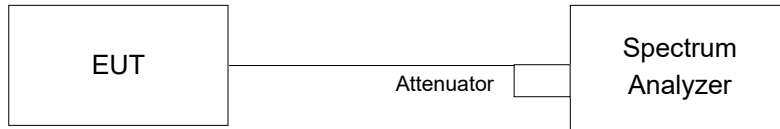
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	31.191	14.94
5470~5725	30.763	14.88

802.11ax (HE160)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	15.224	11.83
5470~5725	31.015	14.92

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

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.44	16.56
40	5200	16.56	16.56
48	5240	16.56	16.44
52	5260	16.56	16.56
60	5300	16.56	16.56
64	5320	16.44	16.44
100	5500	16.44	16.56
116	5580	16.44	16.56
140	5700	16.56	16.44
144	5720 (For U-NII-2C)	13.37	13.37
144	5720 (For U-NII-3)	3.08	3.08
149	5745	16.45	16.45
157	5785	16.45	16.45
165	5825	16.45	16.45

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (UNII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Full RU

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.96	18.96
40	5200	18.96	18.96
48	5240	18.96	19.08
52	5260	18.96	18.96
60	5300	19.08	18.96
64	5320	19.08	18.96
100	5500	19.08	18.96
116	5580	18.96	18.96
140	5700	19.08	18.96
144	5720 (For U-NII-2C)	14.62	14.72
144	5720 (For U-NII-3)	4.42	4.36
149	5745	18.95	18.95
157	5785	19.04	18.95
165	5825	18.95	18.95

For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH144 (UNII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.92	37.92
46	5230	38.16	38.16
54	5270	38.04	38.04
62	5310	38.04	37.92
102	5510	38.04	38.04
110	5550	38.08	38.27
134	5670	37.92	38.16
142	5710 (For U-NII-2C)	34.23	34.20
142	5710 (For U-NII-3)	3.85	3.72
151	5755	38.08	38.08
159	5795	37.98	38.08

For CH142 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH142 (UNII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE80)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.04	77.52
106	5530	77.69	78.08
122	5610	77.04	77.52
138	5690 (For U-NII-2C)	73.88	73.85
138	5690 (For U-NII-3)	3.88	3.08
155	5775	76.54	77.31

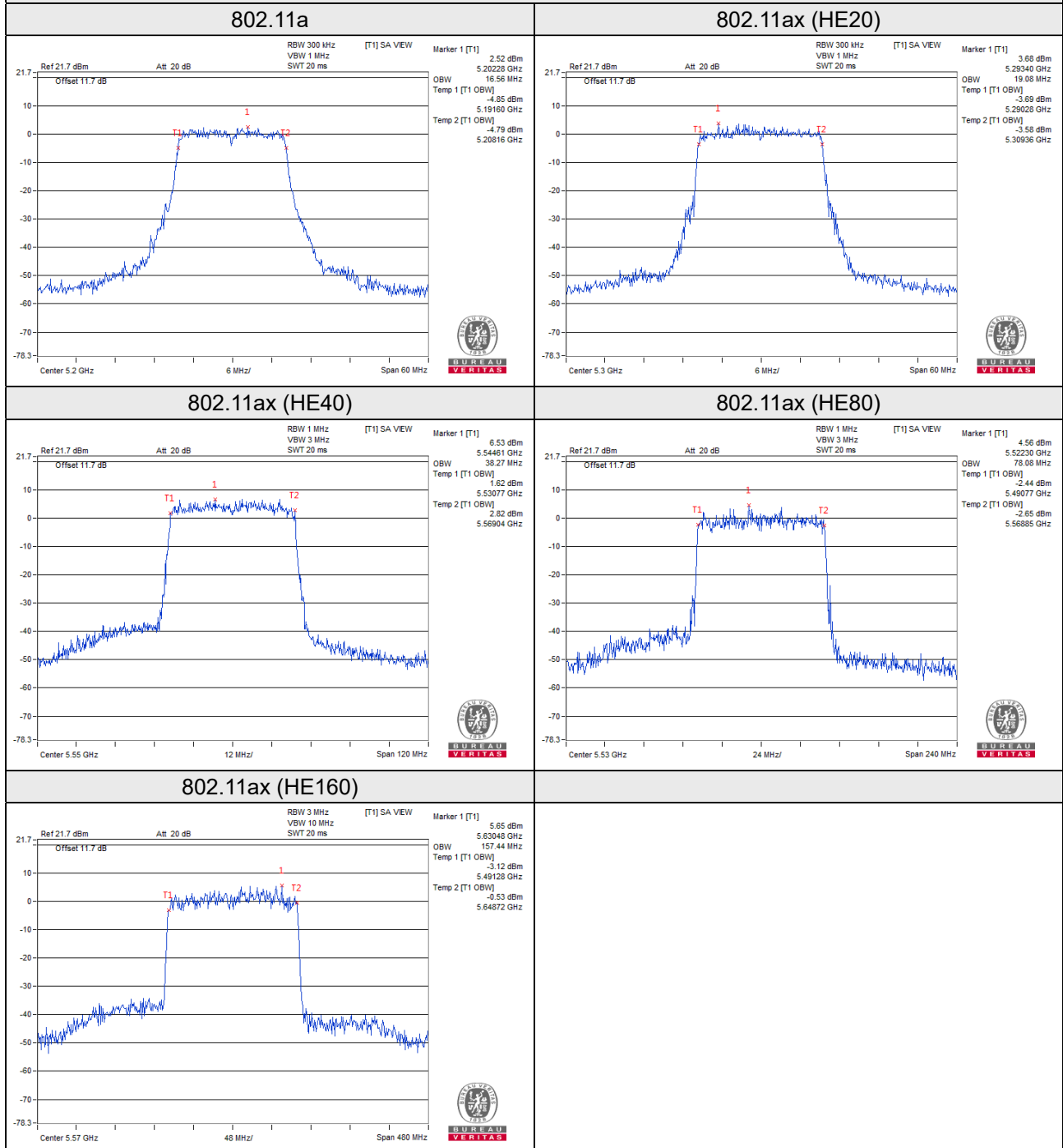
For CH138 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

For CH138 (UNII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE160)

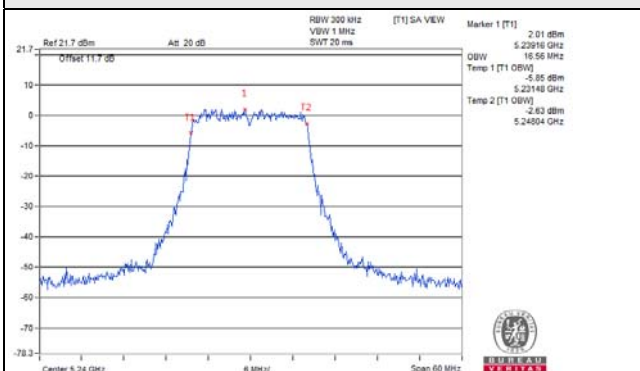
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1 Band)	5250	78.46	79.68
50 (U-NII-2A Band)	5250	78.46	77.76
114	5570	157.44	157.44

Spectrum Plot of Worst Value

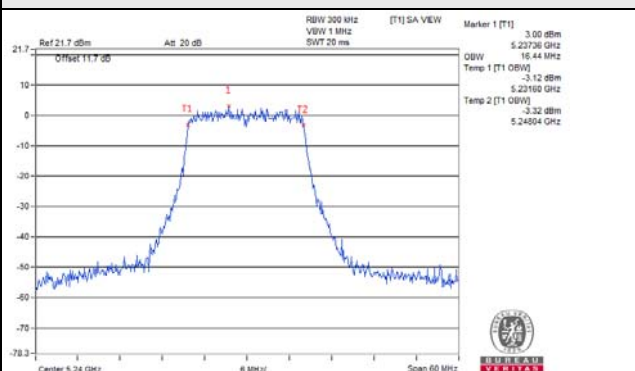


Spectrum Plot for near By DFS Band

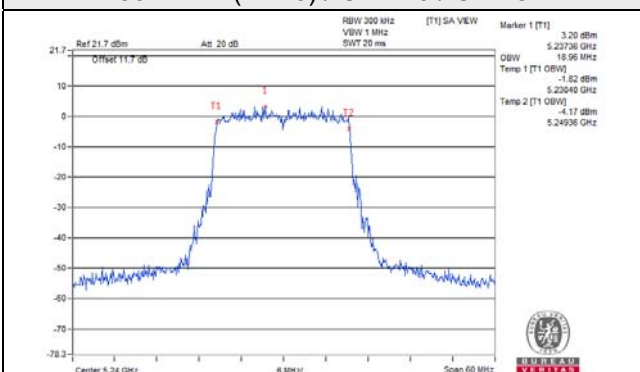
802.11a / Chain 0 / CH 48



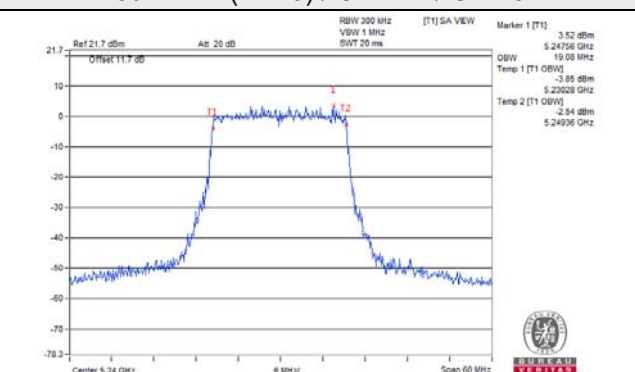
802.11a / Chain 1 / CH 48



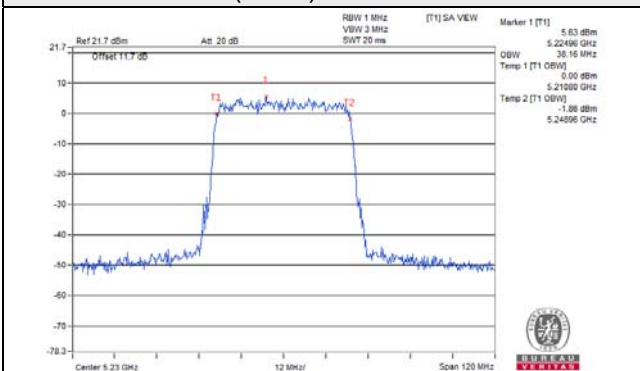
802.11ax (HE20) / Chain 0 / CH 48



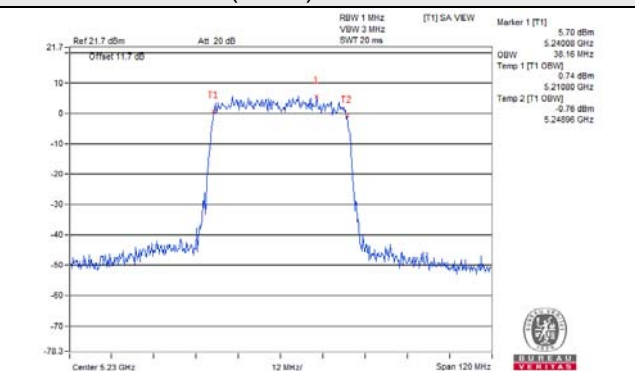
802.11ax (HE20) / Chain 1 / CH 48



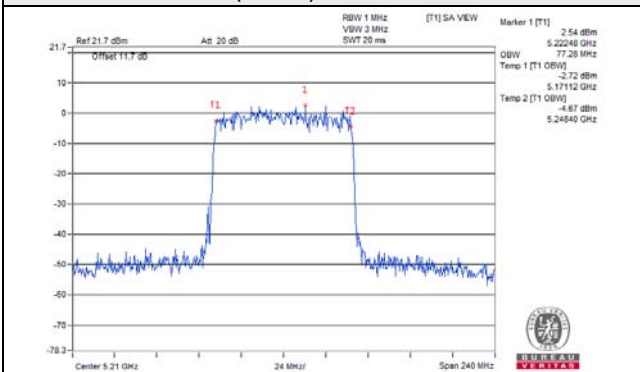
802.11ax (HE40) / Chain 0 / CH 46



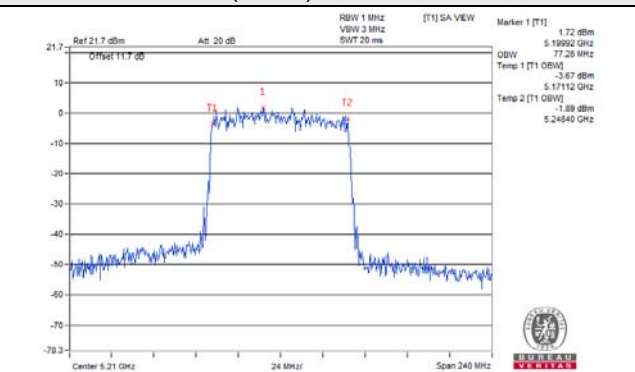
802.11ax (HE40) / Chain 1 / CH 46



802.11ax (HE80) / Chain 0 / CH 42

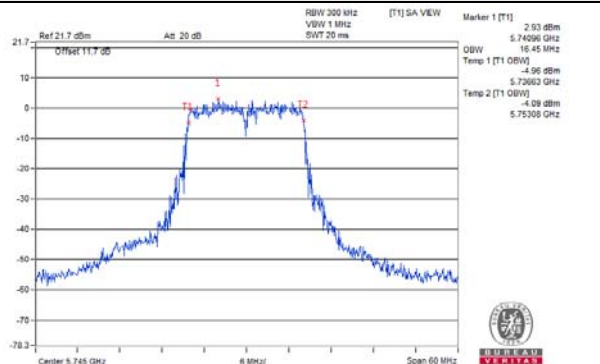


802.11ax (HE80) / Chain 1 / CH 42

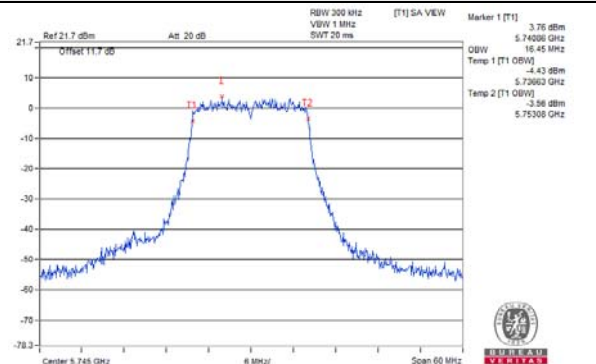


Spectrum Plot for near By DFS Band

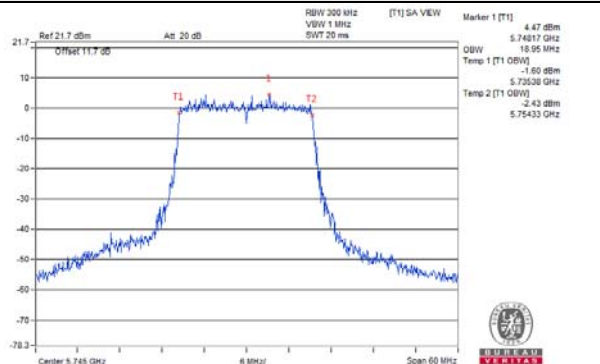
802.11a / Chain 0 / CH 149



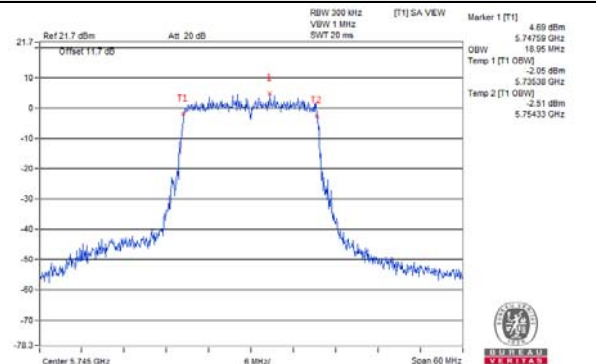
802.11ax / Chain 1 / CH 149



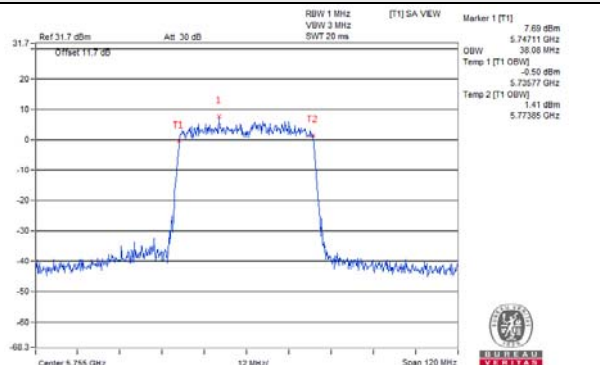
802.11ax (HE20) / Chain 0 / CH 149



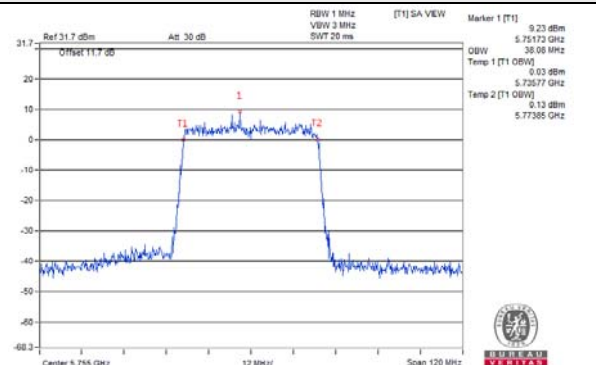
802.11ax (HE20) / Chain 1 / CH 149



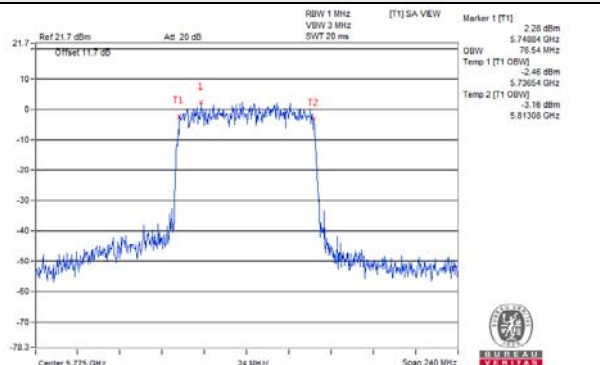
802.11ax (HE40) / Chain 0 / CH 151



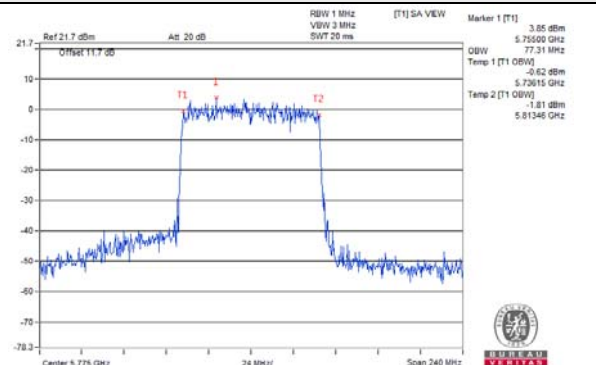
802.11ax (HE40) / Chain 1 / CH 151



802.11ax (HE80) / Chain 0 / CH 155



802.11ax (HE80) / Chain 1 / CH 155

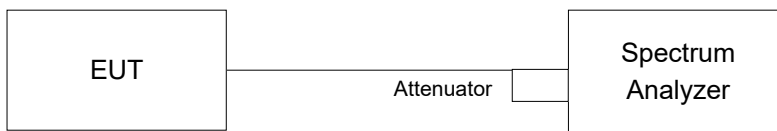


4.5 Peak Power Spectral Density Measurement

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-1, U-NII-2A and U-NII-2C band:

Duty cycle of test signal is > 98%

- 1) Using method SA-1
- 2) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 3) Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS
- 4) Sweep time = auto, trigger set to “free run”.
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value

Duty cycle of test signal is < 98%

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to “free run”.
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

Duty cycle of test signal is > 98%

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value

Duty cycle <98%

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW ≥ 1 MHz, Detector = RMS
- 3) Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- 4) Scale the observed power level to an equivalent value in 500 kHz by adjusting (increasing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(500 \text{ kHz}/300\text{kHz})$
- 5) Sweep time = auto, trigger set to "free run".
- 6) Trace average at least 100 traces in power averaging mode.
- 7) Record the max value and add $10 \log (1/\text{duty cycle})$

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-1, U-NII-2A and U-NII-2C band:

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	PSD With Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-1.35	-1.30	0.09	1.78	11.00	Pass
40	5200	-1.26	-1.23	0.09	1.86	11.00	Pass
48	5240	-1.28	-1.22	0.09	1.85	11.00	Pass
52	5260	-1.34	-1.19	0.09	1.84	11.00	Pass
60	5300	-1.28	-1.26	0.09	1.83	11.00	Pass
64	5320	-1.56	-1.17	0.09	1.74	11.00	Pass
100	5500	-1.42	-1.12	0.09	1.83	11.00	Pass
116	5580	-1.44	-1.12	0.09	1.82	11.00	Pass
140	5700	-1.48	-1.08	0.09	1.82	11.00	Pass
144	5720 (For U-NII-2C)	-1.33	-1.32	0.09	1.78	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

Full RU

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-1.25	-1.11	1.83	11.00	Pass
40	5200	-1.36	-1.23	1.72	11.00	Pass
48	5240	-1.33	-1.21	1.74	11.00	Pass
52	5260	-1.32	-1.12	1.79	11.00	Pass
60	5300	-1.35	-1.26	1.71	11.00	Pass
64	5320	-1.30	-1.03	1.85	11.00	Pass
100	5500	-1.32	-1.22	1.74	11.00	Pass
116	5580	-1.28	-1.20	1.77	11.00	Pass
140	5700	-1.49	-1.22	1.66	11.00	Pass
144	5720 (For U-NII-2C)	-1.26	-1.47	1.65	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-4.16	-4.22	-1.18	11.00	Pass
46	5230	-4.20	-4.15	-1.16	11.00	Pass
54	5270	-4.20	-4.16	-1.17	11.00	Pass
62	5310	-4.18	-4.04	-1.10	11.00	Pass
102	5510	-4.19	-4.07	-1.12	11.00	Pass
110	5550	-4.26	-4.15	-1.19	11.00	Pass
134	5670	-4.46	-4.36	-1.40	11.00	Pass
142	5710 (For U-NII-2C)	-4.30	-4.53	-1.40	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-7.28	-7.25	-4.25	11.00	Pass
58	5290	-7.20	-7.18	-4.18	11.00	Pass
106	5530	-7.24	-7.30	-4.26	11.00	Pass
122	5610	-7.55	-7.39	-4.46	11.00	Pass
138	5690 (For U-NII-2C)	-7.46	-7.69	-4.56	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

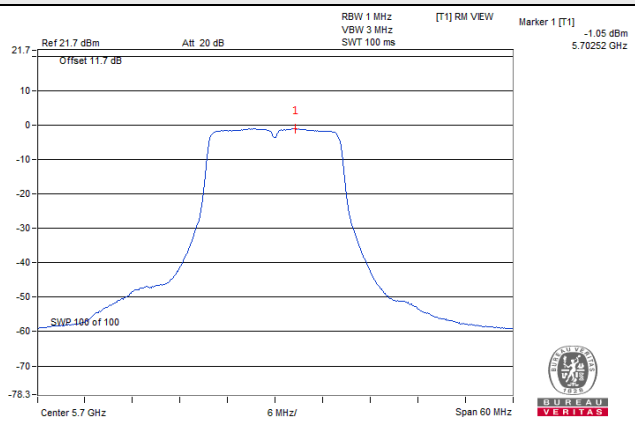
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	-10.28	-10.21	-7.23	11.00	Pass
50	5250 (U-NII-2A Band)	-10.31	-10.35	-7.32	11.00	Pass
114	5570	-10.15	-10.24	-7.18	11.00	Pass

Note:

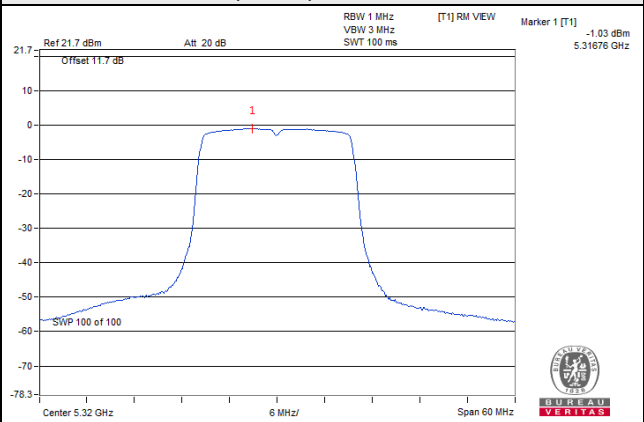
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

Spectrum Plot of Worst Value

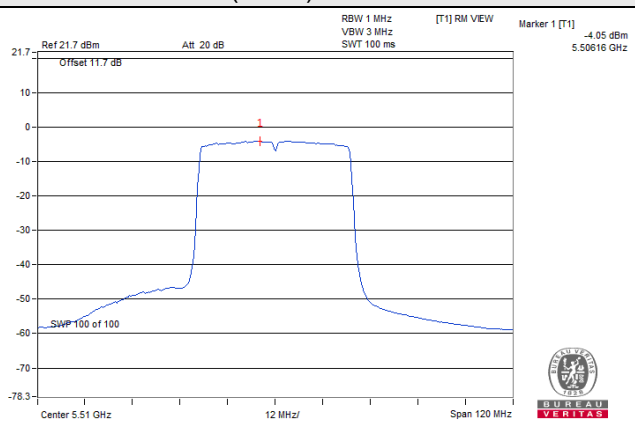
802.11a / Chain 1 / CH 140



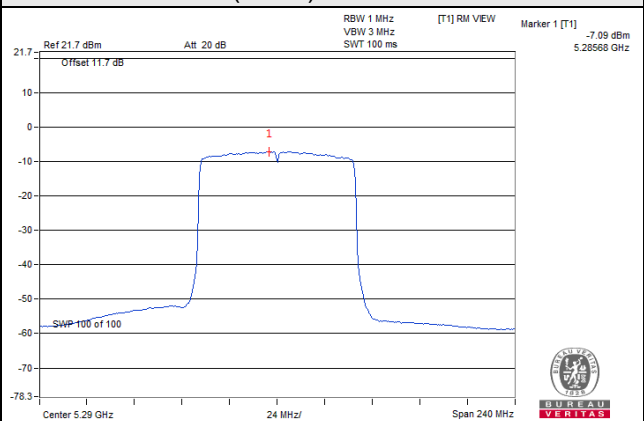
802.11ax (HE20) / Chain 1 / CH 64



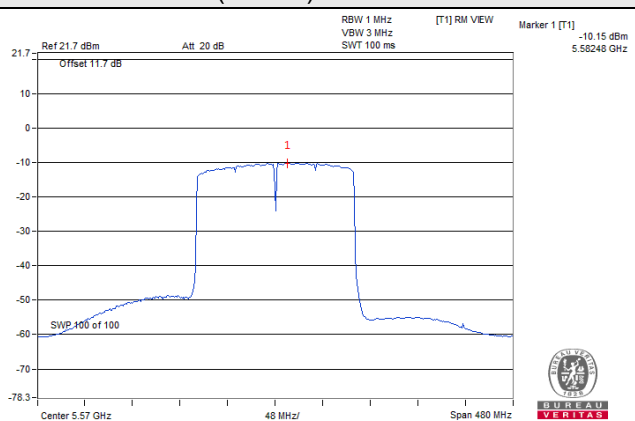
802.11ax (HE40) / Chain 1 / CH 62



802.11ax (HE80) / Chain 1 / CH 58



802.11ax (HE160) / Chain 0 / CH 114



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720 (For U-NII-3)	-9.24	-7.02	3.01	0.09	-3.92	30.00	Pass
	149	5745	-9.18	-6.96	3.01	0.09	-3.86	30.00	Pass
	157	5785	-9.03	-6.81	3.01	0.09	-3.71	30.00	Pass
	165	5825	-8.96	-6.74	3.01	0.09	-3.64	30.00	Pass
1	144	5720 (For U-NII-3)	-9.71	-7.49	3.01	0.09	-4.39	30.00	Pass
	149	5745	-9.35	-7.13	3.01	0.09	-4.03	30.00	Pass
	157	5785	-9.15	-6.93	3.01	0.09	-3.83	30.00	Pass
	165	5825	-9.18	-6.96	3.01	0.09	-3.86	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	144	5720 (For U-NII-3)	-10.74	-8.52	3.01	-5.51	30.00	Pass
	149	5745	-10.63	-8.41	3.01	-5.40	30.00	Pass
	157	5785	-10.49	-8.27	3.01	-5.26	30.00	Pass
	165	5825	-10.42	-8.20	3.01	-5.19	30.00	Pass
1	144	5720 (For U-NII-3)	-10.65	-8.43	3.01	-5.42	30.00	Pass
	149	5745	-10.78	-8.56	3.01	-5.55	30.00	Pass
	157	5785	-10.54	-8.32	3.01	-5.31	30.00	Pass
	165	5825	-10.53	-8.31	3.01	-5.30	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	142	5710 (For U-NII-3)	-14.25	-12.03	3.01	-9.02	30.00	Pass
	151	5755	-13.08	-10.86	3.01	-7.85	30.00	Pass
	159	5795	-13.02	-10.80	3.01	-7.79	30.00	Pass
1	142	5710 (For U-NII-3)	-14.33	-12.11	3.01	-9.10	30.00	Pass
	151	5755	-13.17	-10.95	3.01	-7.94	30.00	Pass
	159	5795	-13.15	-10.93	3.01	-7.92	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

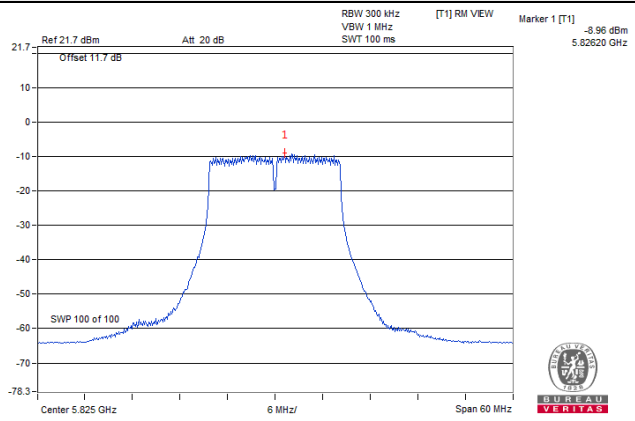
TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-17.70	-15.48	3.01	-12.47	30.00	Pass
	155	5775	-16.10	-13.88	3.01	-10.87	30.00	Pass
1	138	5690 (For U-NII-3)	-18.08	-15.86	3.01	-12.85	30.00	Pass
	155	5775	-16.17	-13.95	3.01	-10.94	30.00	Pass

Note:

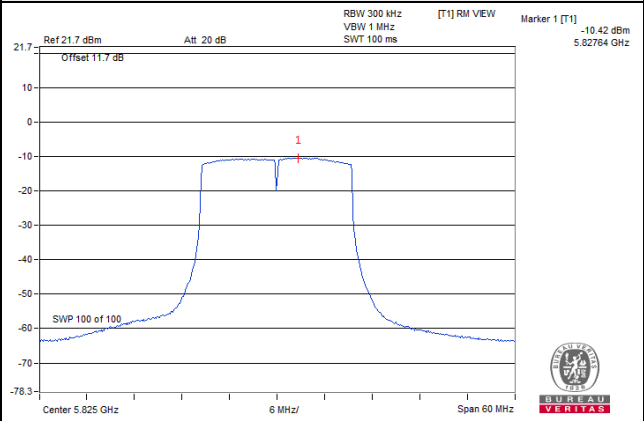
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

Spectrum Plot of Worst Value

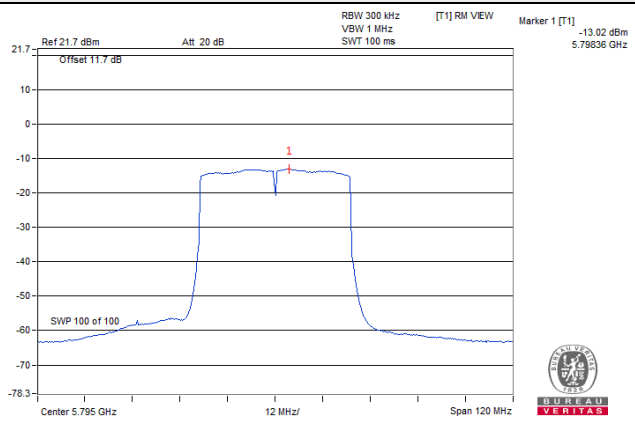
802.11a



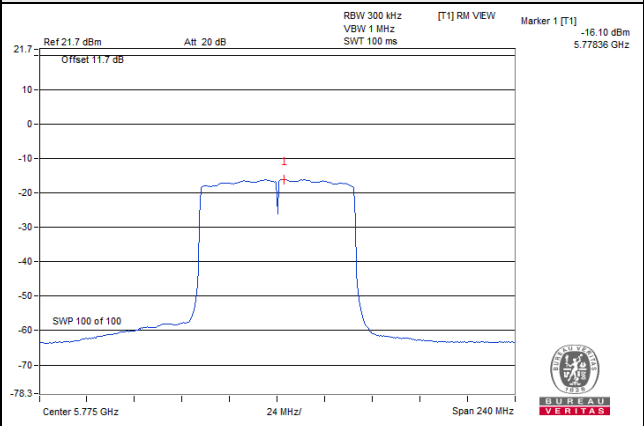
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



**Partial RU
RU26**

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	3.65	3.78	6.73	11.00	Pass
40	5200	3.57	3.70	6.65	11.00	Pass
48	5240	3.67	3.69	6.69	11.00	Pass
52	5260	3.65	3.77	6.72	11.00	Pass
60	5300	3.72	3.71	6.73	11.00	Pass
64	5320	3.74	3.80	6.78	11.00	Pass
100	5500	3.81	3.83	6.83	11.00	Pass
116	5580	3.84	3.83	6.85	11.00	Pass
140	5700	3.80	3.86	6.84	11.00	Pass
144	5720 (For U-NII-2C)	-24.06	-23.63	-20.83	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	3.28	3.32	6.31	11.00	Pass
46	5230	3.21	3.28	6.26	11.00	Pass
54	5270	3.36	3.30	6.34	11.00	Pass
62	5310	3.37	3.32	6.36	11.00	Pass
102	5510	3.28	3.27	6.29	11.00	Pass
110	5550	3.24	3.35	6.31	11.00	Pass
134	5670	3.35	3.42	6.40	11.00	Pass
142	5710 (For U-NII-2C)	-25.60	-26.00	-22.79	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	3.22	3.39	6.32	11.00	Pass
58	5290	3.31	3.37	6.35	11.00	Pass
106	5530	3.37	3.33	6.36	11.00	Pass
122	5610	3.45	3.29	6.38	11.00	Pass
138	5690 (For U-NII-2C)	-27.55	-27.15	-24.34	11.00	Pass

Note:

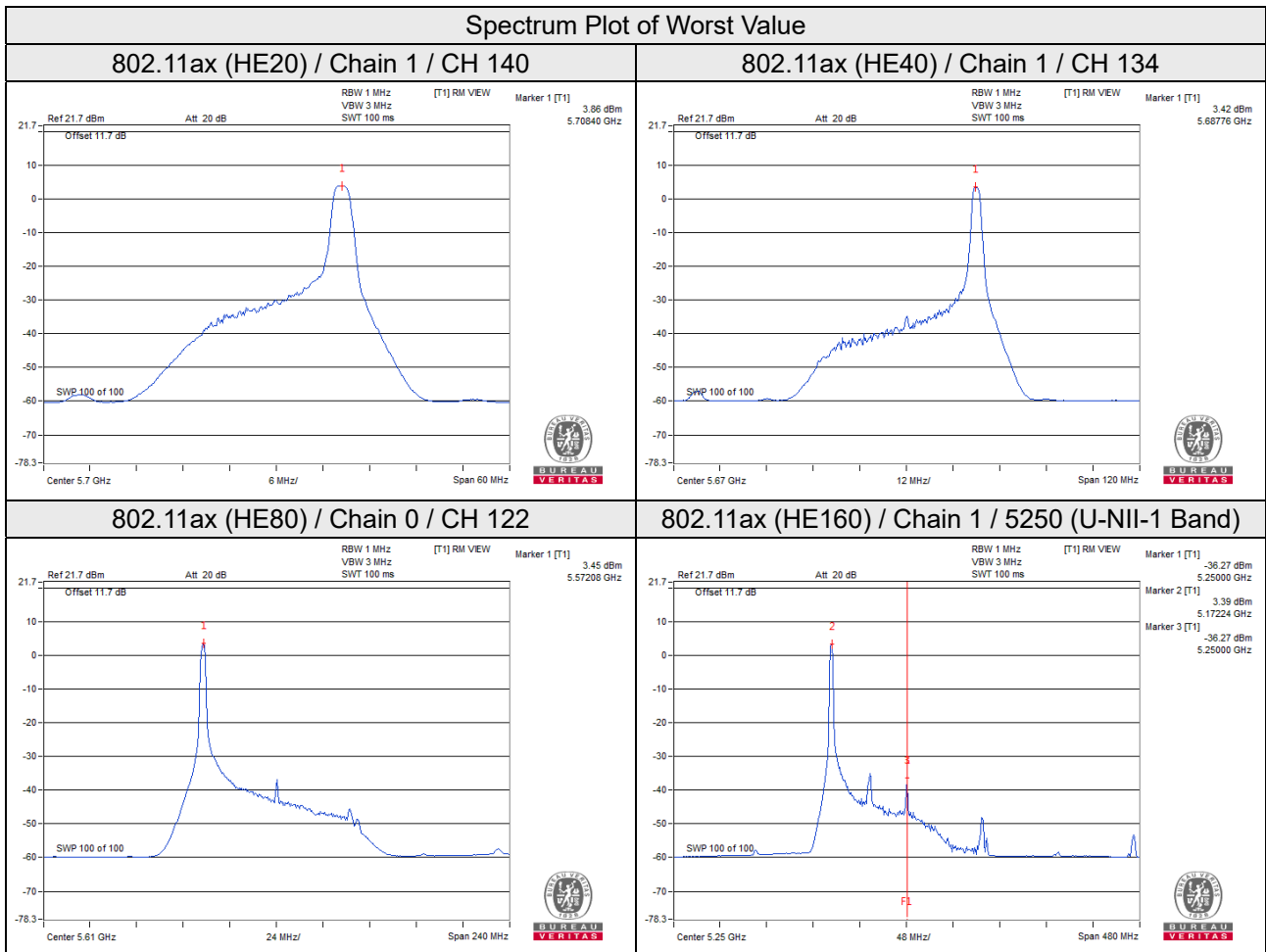
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	3.32	3.39	6.37	11.00	Pass
50	5250 (U-NII-2A Band)	-42.30	-36.27	-35.30	11.00	Pass
114	5570	3.23	3.35	6.30	11.00	Pass

Note:

- 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.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	144	5720 (For U-NII-3)	-4.29	-2.07	3.01	0.94	30.00	Pass
	149	5745	-4.30	-2.08	3.01	0.93	30.00	Pass
	157	5785	-4.24	-2.02	3.01	0.99	30.00	Pass
	165	5825	-4.15	-1.93	3.01	1.08	30.00	Pass
1	144	5720 (For U-NII-3)	-4.17	-1.95	3.01	1.06	30.00	Pass
	149	5745	-4.24	-2.02	3.01	0.99	30.00	Pass
	157	5785	-4.13	-1.91	3.01	1.10	30.00	Pass
	165	5825	-4.09	-1.87	3.01	1.14	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	142	5710 (For U-NII-3)	-3.37	-1.15	3.01	1.86	30.00	Pass
	151	5755	-3.35	-1.13	3.01	1.88	30.00	Pass
	159	5795	-3.32	-1.10	3.01	1.91	30.00	Pass
1	142	5710 (For U-NII-3)	-3.27	-1.05	3.01	1.96	30.00	Pass
	151	5755	-3.29	-1.07	3.01	1.94	30.00	Pass
	159	5795	-3.20	-0.98	3.01	2.03	30.00	Pass

Note:

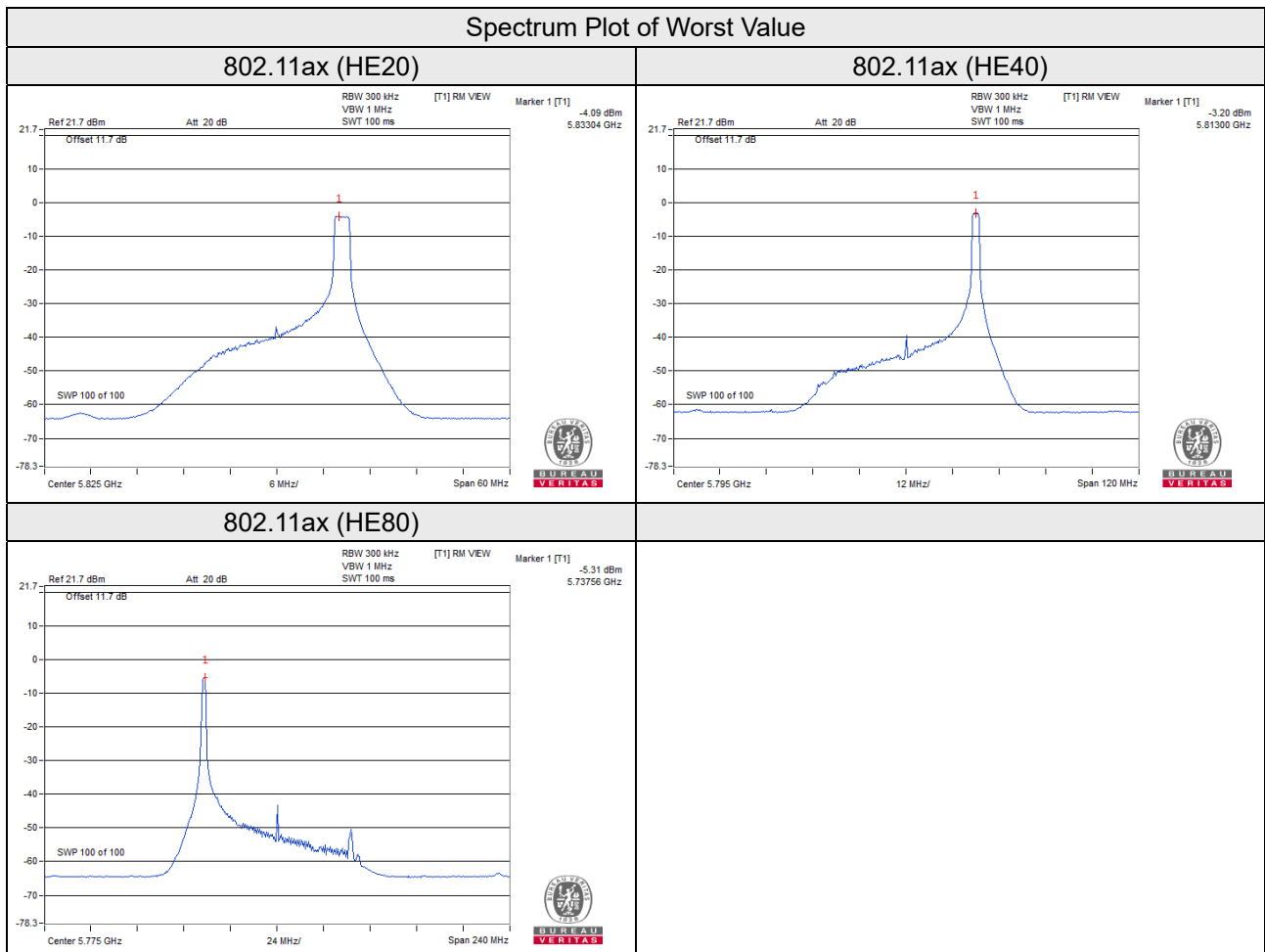
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-5.44	-3.22	3.01	-0.21	30.00	Pass
	155	5775	-5.40	-3.18	3.01	-0.17	30.00	Pass
1	138	5690 (For U-NII-3)	-5.38	-3.16	3.01	-0.15	30.00	Pass
	155	5775	-5.31	-3.09	3.01	-0.08	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 10 log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^{2/2}] = 1.62dBi < 6dBi, so the limit no need to reduced.



RU52

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	0.69	0.79	3.75	11.00	Pass
40	5200	0.52	0.74	3.64	11.00	Pass
48	5240	0.64	0.77	3.72	11.00	Pass
52	5260	0.68	0.79	3.75	11.00	Pass
60	5300	0.62	0.66	3.65	11.00	Pass
64	5320	0.67	0.78	3.74	11.00	Pass
100	5500	0.74	0.88	3.82	11.00	Pass
116	5580	0.61	0.82	3.73	11.00	Pass
140	5700	0.81	0.93	3.88	11.00	Pass
144	5720 (For U-NII-2C)	-10.16	-10.16	-7.15	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	0.08	0.20	3.15	11.00	Pass
46	5230	0.03	0.15	3.10	11.00	Pass
54	5270	0.04	0.10	3.08	11.00	Pass
62	5310	0.13	0.19	3.17	11.00	Pass
102	5510	0.07	-0.06	3.02	11.00	Pass
110	5550	0.02	0.03	3.04	11.00	Pass
134	5670	0.12	0.23	3.19	11.00	Pass
142	5710 (For U-NII-2C)	-3.34	-3.32	-0.32	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	0.53	0.69	3.62	11.00	Pass
58	5290	0.41	0.74	3.59	11.00	Pass
106	5530	0.52	0.69	3.62	11.00	Pass
122	5610	0.63	0.67	3.66	11.00	Pass
138	5690 (For U-NII-2C)	-10.20	-10.10	-7.14	11.00	Pass

Note:

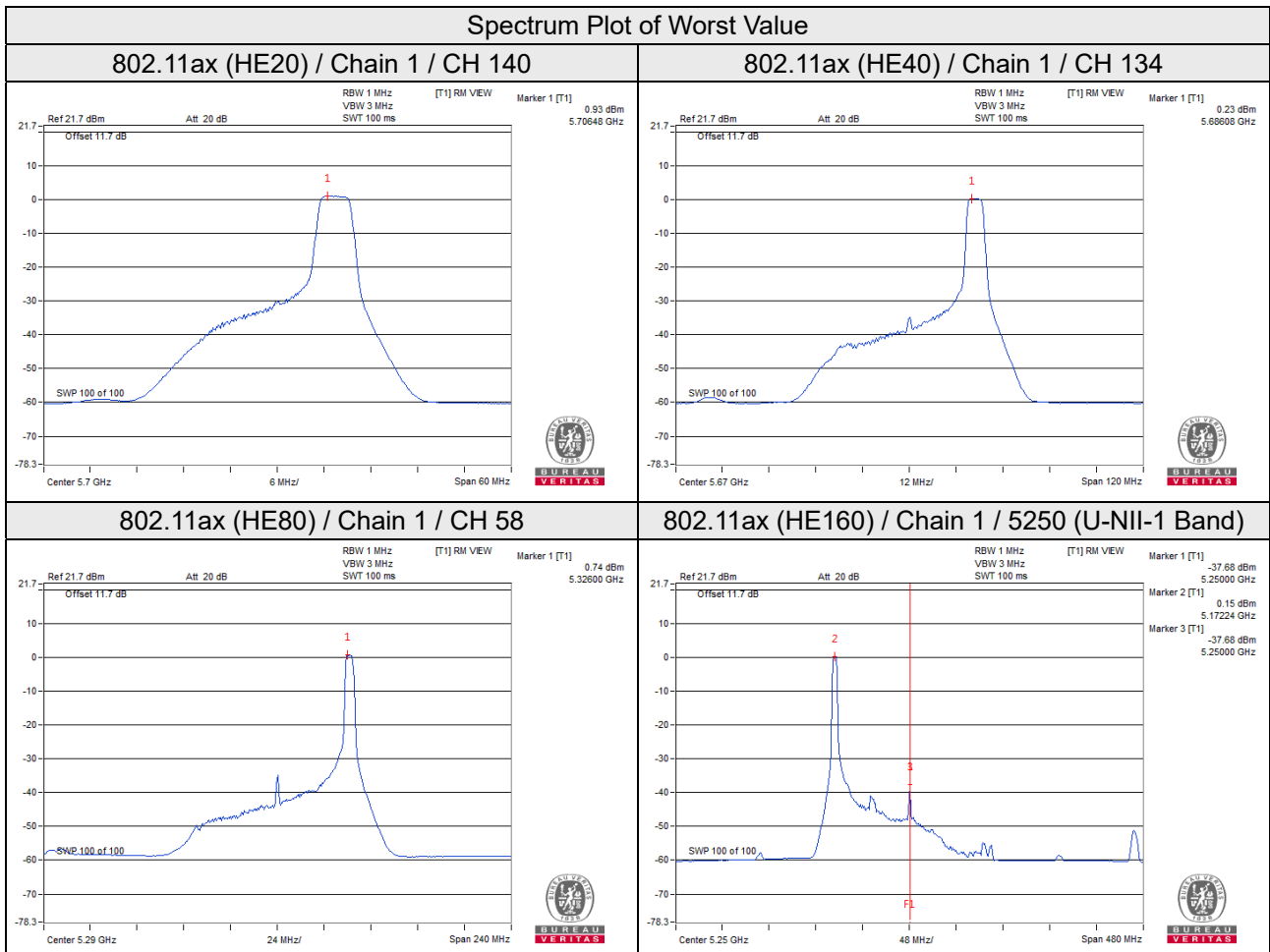
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	0.03	0.15	3.10	11.00	Pass
50	5250 (U-NII-2A Band)	-42.57	-37.68	-36.46	11.00	Pass
114	5570	-0.08	0.02	2.98	11.00	Pass

Note:

- 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.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	144	5720 (For U-NII-3)	-7.30	-5.08	3.01	-2.07	30.00	Pass
	149	5745	-7.34	-5.12	3.01	-2.11	30.00	Pass
	157	5785	-7.31	-5.09	3.01	-2.08	30.00	Pass
	165	5825	-7.24	-5.02	3.01	-2.01	30.00	Pass
1	144	5720 (For U-NII-3)	-7.24	-5.02	3.01	-2.01	30.00	Pass
	149	5745	-7.27	-5.05	3.01	-2.04	30.00	Pass
	157	5785	-7.19	-4.97	3.01	-1.96	30.00	Pass
	165	5825	-7.11	-4.89	3.01	-1.88	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	142	5710 (For U-NII-3)	-8.19	-5.97	3.01	-2.96	30.00	Pass
	151	5755	-8.19	-5.97	3.01	-2.96	30.00	Pass
	159	5795	-8.09	-5.87	3.01	-2.86	30.00	Pass
1	142	5710 (For U-NII-3)	-8.15	-5.93	3.01	-2.92	30.00	Pass
	151	5755	-8.06	-5.84	3.01	-2.83	30.00	Pass
	159	5795	-8.01	-5.79	3.01	-2.78	30.00	Pass

Note:

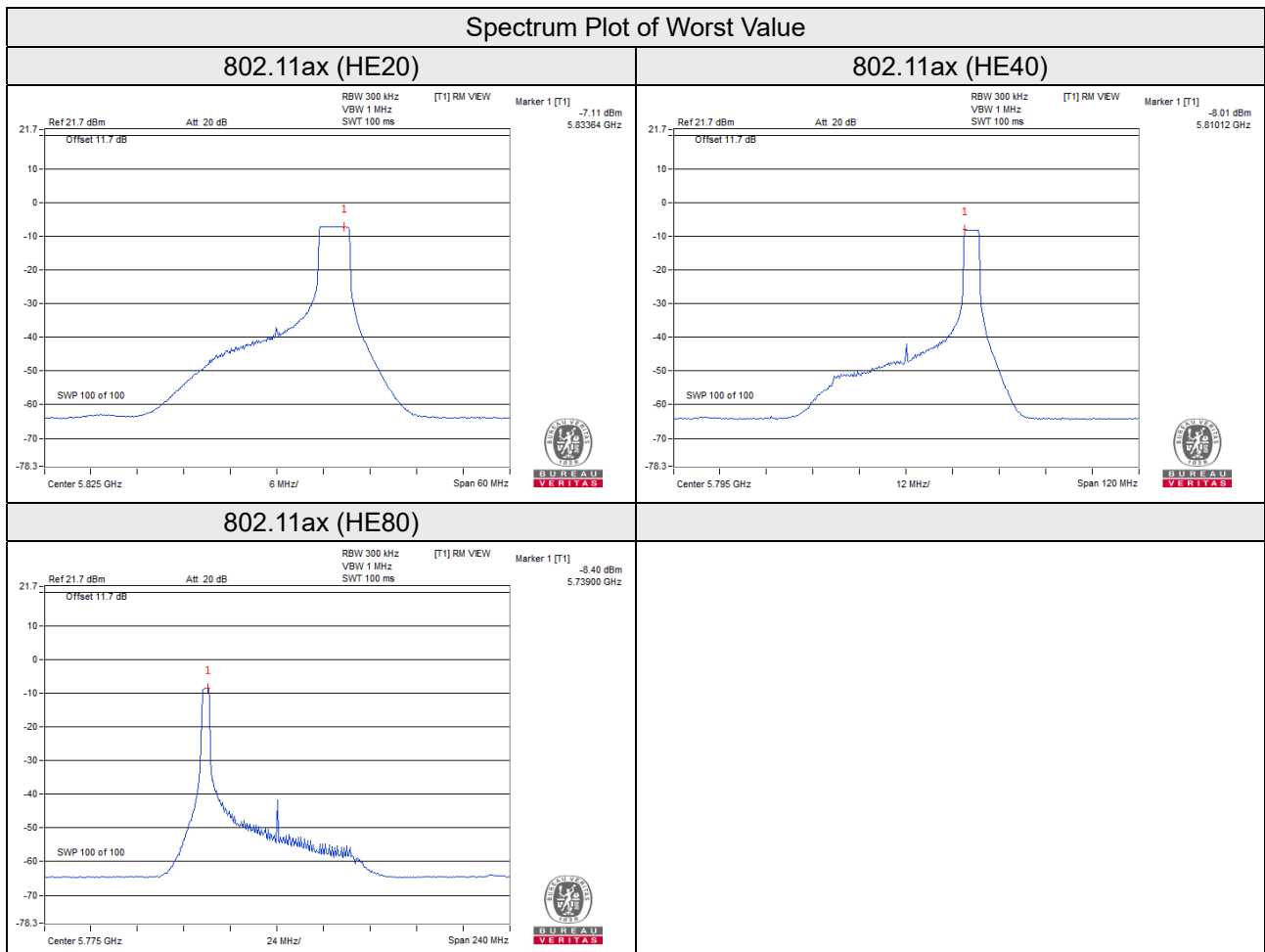
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-8.54	-6.32	3.01	-3.31	30.00	Pass
	155	5775	-8.50	-6.28	3.01	-3.27	30.00	Pass
1	138	5690 (For U-NII-3)	-8.46	-6.24	3.01	-3.23	30.00	Pass
	155	5775	-8.40	-6.18	3.01	-3.17	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 10 log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^{2/2}] = 1.62dBi < 6dBi, so the limit no need to reduced.



RU106

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-2.31	-2.14	0.79	11.00	Pass
40	5200	-2.29	-2.22	0.76	11.00	Pass
48	5240	-2.32	-2.17	0.77	11.00	Pass
52	5260	-2.32	-2.07	0.82	11.00	Pass
60	5300	-2.41	-2.20	0.71	11.00	Pass
64	5320	-2.28	-2.09	0.83	11.00	Pass
100	5500	-2.07	-2.10	0.93	11.00	Pass
116	5580	-2.17	-2.25	0.80	11.00	Pass
140	5700	-2.18	-2.12	0.86	11.00	Pass
144	5720 (For U-NII-2C)	-2.17	-2.20	0.83	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-3.38	-3.26	-0.31	11.00	Pass
46	5230	-3.42	-3.37	-0.38	11.00	Pass
54	5270	-3.50	-3.32	-0.40	11.00	Pass
62	5310	-3.47	-3.22	-0.33	11.00	Pass
102	5510	-3.68	-3.28	-0.47	11.00	Pass
110	5550	-3.53	-3.26	-0.38	11.00	Pass
134	5670	-3.60	-3.19	-0.38	11.00	Pass
142	5710 (For U-NII-2C)	-3.58	-3.15	-0.35	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-2.85	-2.71	0.23	11.00	Pass
58	5290	-2.87	-2.67	0.24	11.00	Pass
106	5530	-2.84	-2.70	0.24	11.00	Pass
122	5610	-2.65	-2.76	0.31	11.00	Pass
138	5690 (For U-NII-2C)	-2.80	-2.77	0.23	11.00	Pass

Note:

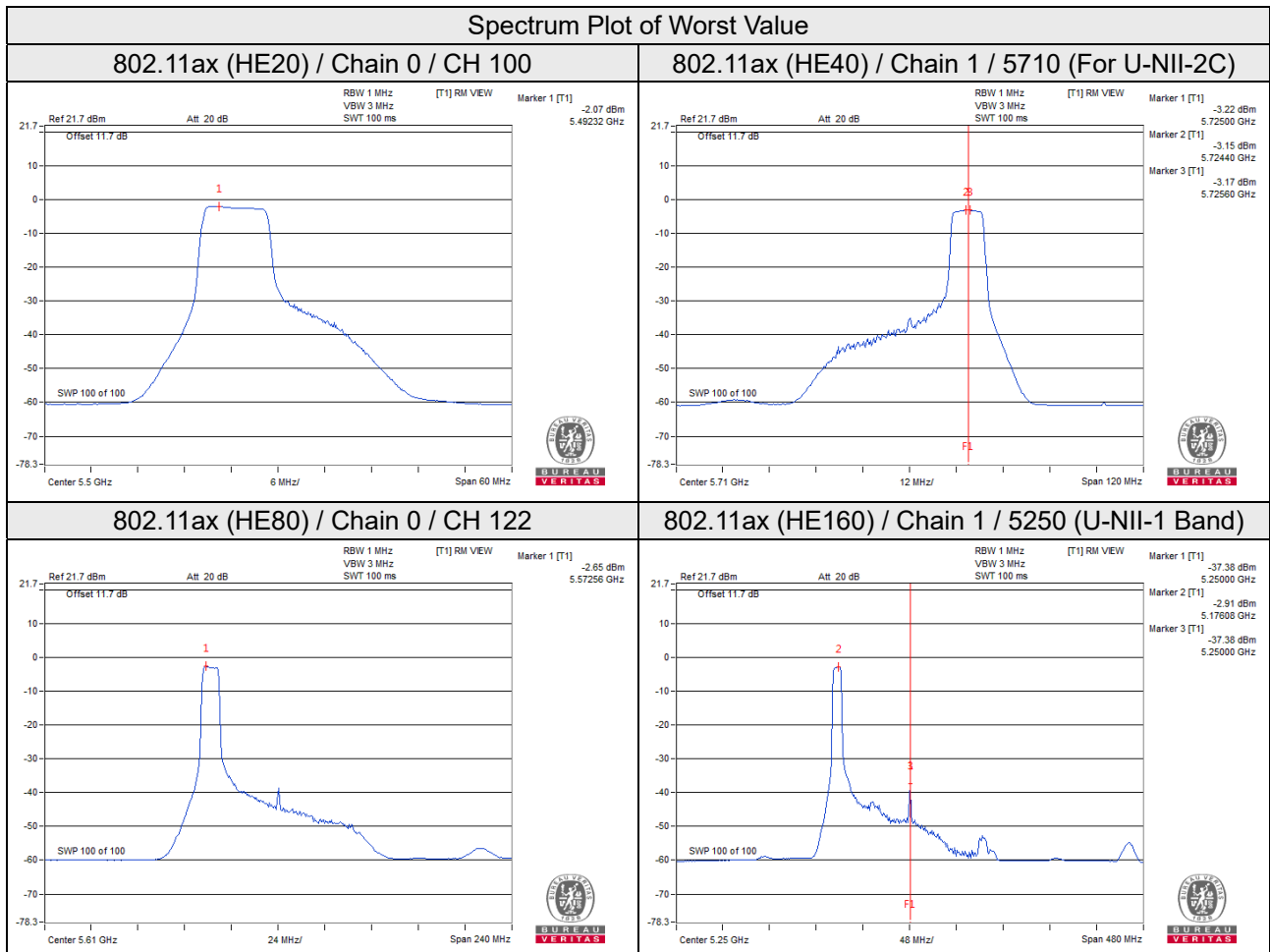
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	-3.11	-2.91	0.00	11.00	Pass
50	5250 (U-NII-2A Band)	-44.49	-37.38	-36.61	11.00	Pass
114	5570	-3.17	-3.35	-0.25	11.00	Pass

Note:

- 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.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	144	5720 (For U-NII-3)	-10.21	-7.99	3.01	-4.98	30.00	Pass
	149	5745	-10.14	-7.92	3.01	-4.91	30.00	Pass
	157	5785	-10.10	-7.88	3.01	-4.87	30.00	Pass
	165	5825	-10.06	-7.84	3.01	-4.83	30.00	Pass
1	144	5720 (For U-NII-3)	-9.97	-7.75	3.01	-4.74	30.00	Pass
	149	5745	-10.01	-7.79	3.01	-4.78	30.00	Pass
	157	5785	-9.94	-7.72	3.01	-4.71	30.00	Pass
	165	5825	-9.84	-7.62	3.01	-4.61	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	142	5710 (For U-NII-3)	-11.11	-8.89	3.01	-5.88	30.00	Pass
	151	5755	-10.86	-8.64	3.01	-5.63	30.00	Pass
	159	5795	-10.85	-8.63	3.01	-5.62	30.00	Pass
1	142	5710 (For U-NII-3)	-10.84	-8.62	3.01	-5.61	30.00	Pass
	151	5755	-10.82	-8.60	3.01	-5.59	30.00	Pass
	159	5795	-10.74	-8.52	3.01	-5.51	30.00	Pass

Note:

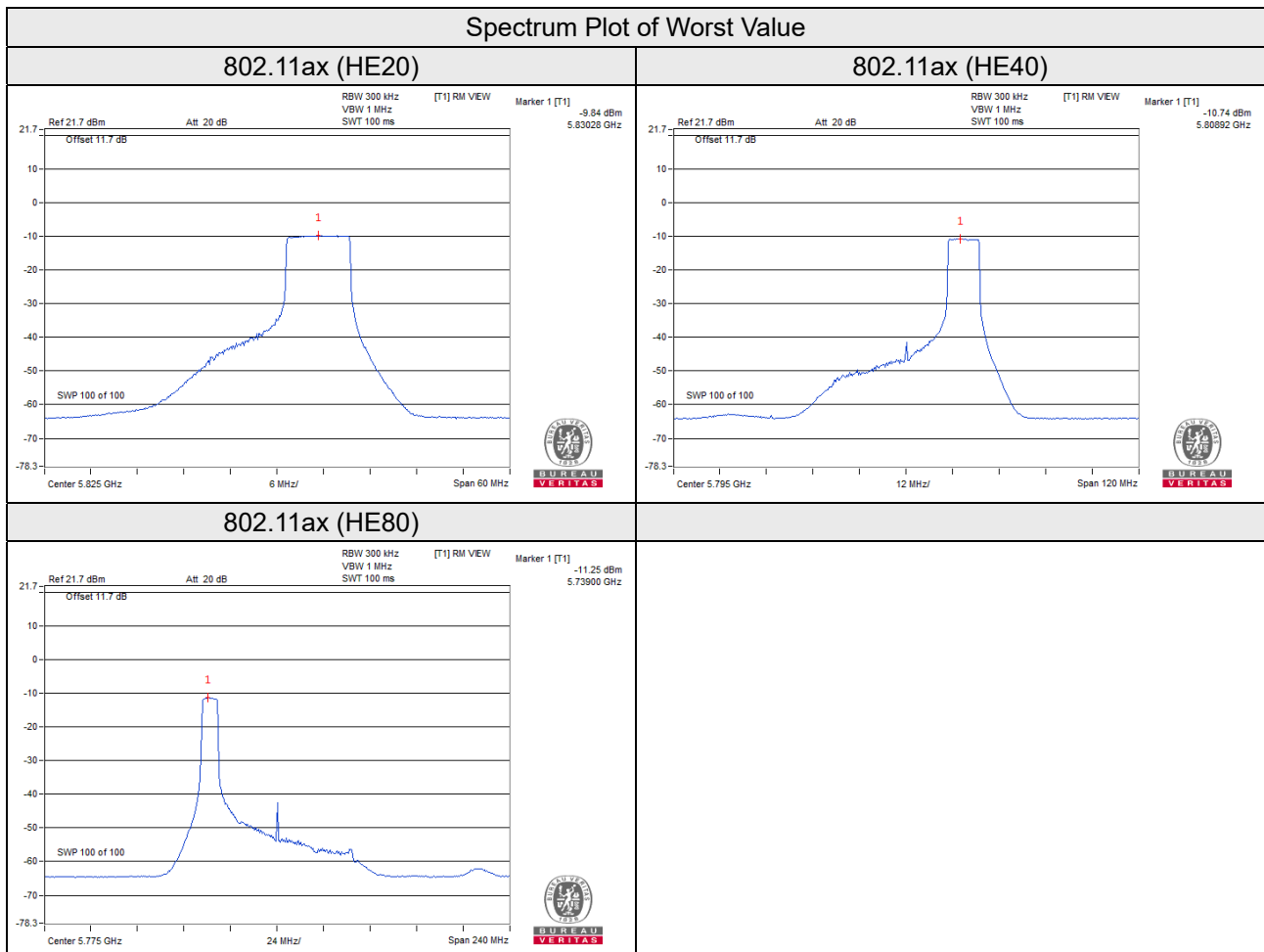
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-11.59	-9.37	3.01	-6.36	30.00	Pass
	155	5775	-11.32	-9.10	3.01	-6.09	30.00	Pass
1	138	5690 (For U-NII-3)	-11.34	-9.12	3.01	-6.11	30.00	Pass
	155	5775	-11.25	-9.03	3.01	-6.02	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = 10 log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^{2/2}] = 1.62dBi < 6dBi, so the limit no need to reduced.



RU242

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-6.56	-6.42	-3.48	11.00	Pass
46	5230	-6.59	-6.58	-3.57	11.00	Pass
54	5270	-6.69	-6.46	-3.56	11.00	Pass
62	5310	-6.61	-6.56	-3.57	11.00	Pass
102	5510	-6.94	-6.35	-3.62	11.00	Pass
110	5550	-6.73	-6.40	-3.55	11.00	Pass
134	5670	-6.90	-6.42	-3.64	11.00	Pass
142	5710 (For U-NII-2C)	-6.82	-6.47	-3.63	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-6.31	-6.24	-3.26	11.00	Pass
58	5290	-6.23	-6.30	-3.25	11.00	Pass
106	5530	-6.29	-6.37	-3.32	11.00	Pass
122	5610	-6.16	-6.30	-3.22	11.00	Pass
138	5690 (For U-NII-2C)	-6.20	-6.40	-3.29	11.00	Pass

Note:

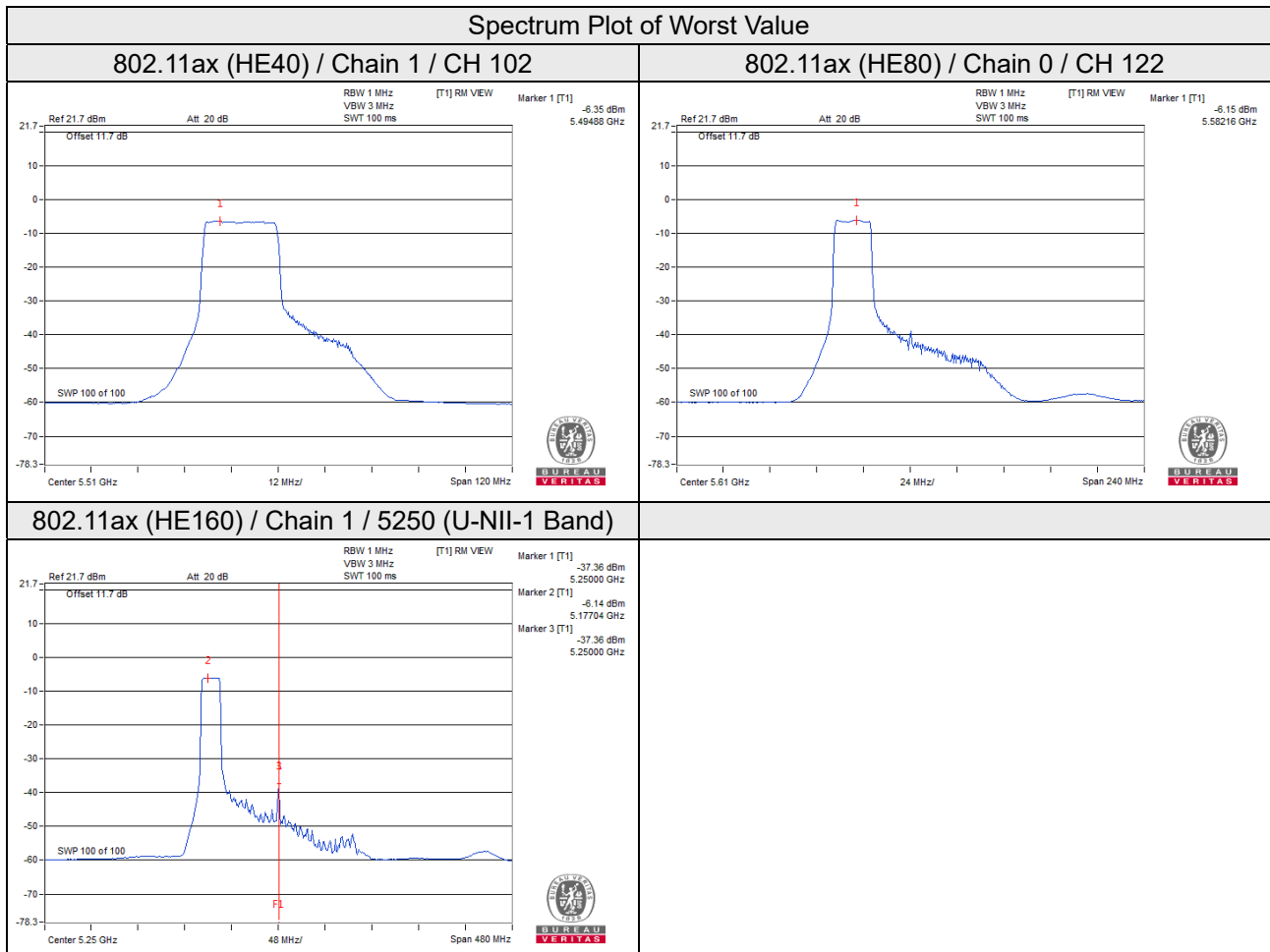
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	-6.32	-6.17	-3.23	11.00	Pass
50	5250 (U-NII-2A Band)	-44.98	-37.36	-36.67	11.00	Pass
114	5570	-6.37	-6.50	-3.42	11.00	Pass

Note:

- 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.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



For U-NII-3 band:

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	142	5710 (For U-NII-3)	-14.79	-12.57	3.01	-9.56	30.00	Pass
	151	5755	-14.57	-12.35	3.01	-9.34	30.00	Pass
	159	5795	-14.50	-12.28	3.01	-9.27	30.00	Pass
1	142	5710 (For U-NII-3)	-14.61	-12.39	3.01	-9.38	30.00	Pass
	151	5755	-14.50	-12.28	3.01	-9.27	30.00	Pass
	159	5795	-14.39	-12.17	3.01	-9.16	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE80)

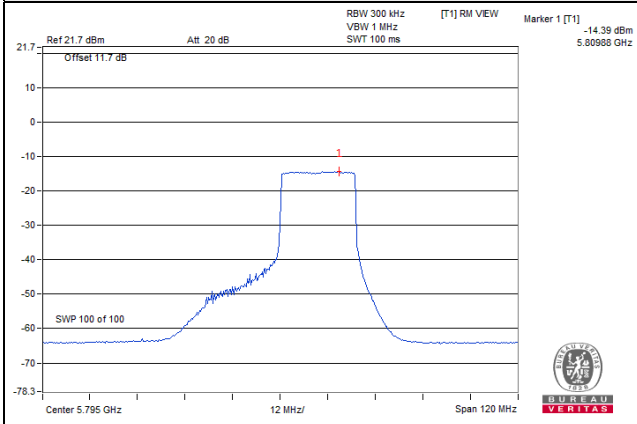
TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-15.13	-12.91	3.01	-9.90	30.00	Pass
	155	5775	-14.81	-12.59	3.01	-9.58	30.00	Pass
1	138	5690 (For U-NII-3)	-14.79	-12.57	3.01	-9.56	30.00	Pass
	155	5775	-14.67	-12.45	3.01	-9.44	30.00	Pass

Note:

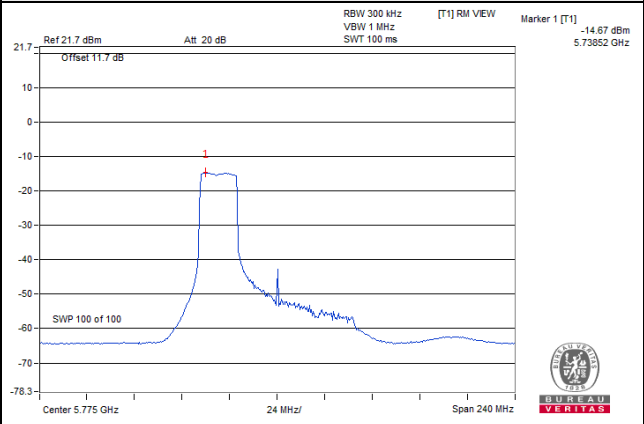
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

Spectrum Plot of Worst Value

802.11ax (HE40)



802.11ax (HE80)



RU486

For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-9.40	-9.38	-6.38	11.00	Pass
58	5290	-9.34	-9.32	-6.32	11.00	Pass
106	5530	-9.59	-9.12	-6.34	11.00	Pass
122	5610	-9.22	-9.34	-6.27	11.00	Pass
138	5690 (For U-NII-2C)	-9.26	-9.18	-6.21	11.00	Pass

Note:

- 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.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	-9.35	-9.18	-6.25	11.00	Pass
50	5250 (U-NII-2A Band)	-44.10	-36.81	-36.07	11.00	Pass
114	5570	-9.41	-9.52	-6.45	11.00	Pass

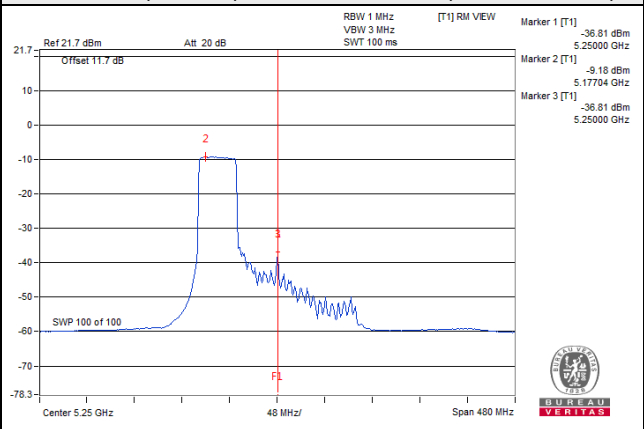
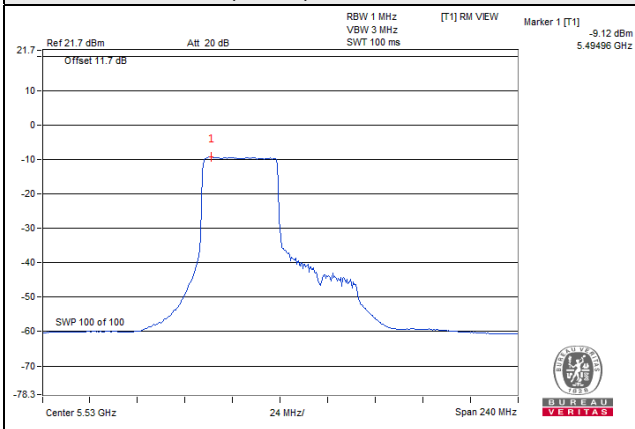
Note:

- 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.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

Spectrum Plot of Worst Value

802.11ax (HE80) / Chain 1 / CH 106

802.11ax (HE160) / Chain 1 / 5250 (U-NII-1 Band)



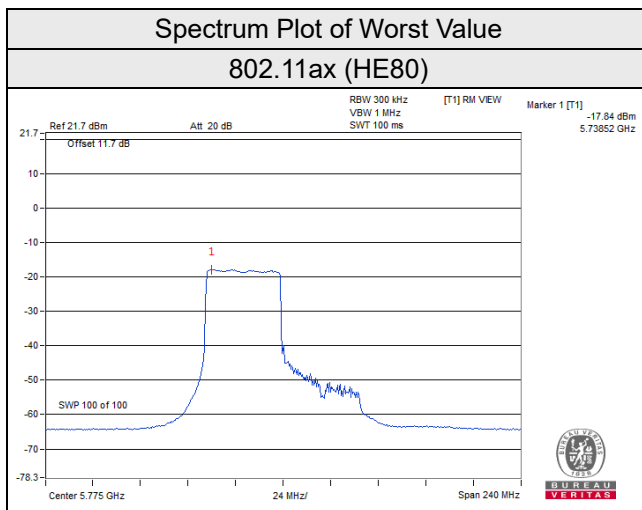
For U-NII-3 band:

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-18.15	-15.93	3.01	-12.92	30.00	Pass
	155	5775	-17.94	-15.72	3.01	-12.71	30.00	Pass
1	138	5690 (For U-NII-3)	-17.93	-15.71	3.01	-12.70	30.00	Pass
	155	5775	-17.84	-15.62	3.01	-12.61	30.00	Pass

Note:

- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 1.62\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU996

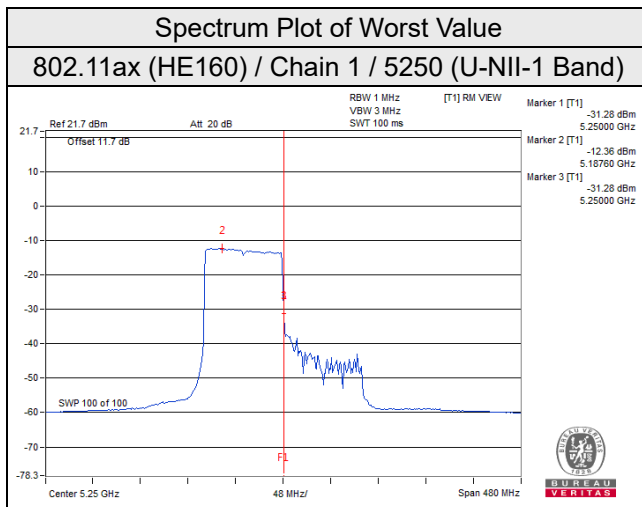
For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
50	5250 (U-NII-1 Band)	-12.48	-12.37	-9.41	11.00	Pass
50	5250 (U-NII-2A Band)	-32.22	-31.28	-28.71	11.00	Pass
114	5570	-12.66	-12.67	-9.65	11.00	Pass

Note:

- 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.
- 5250MHz (U-NII-1 Band): Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.31\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5250MHz (U-NII-2A Band): Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.03\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 0.38\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

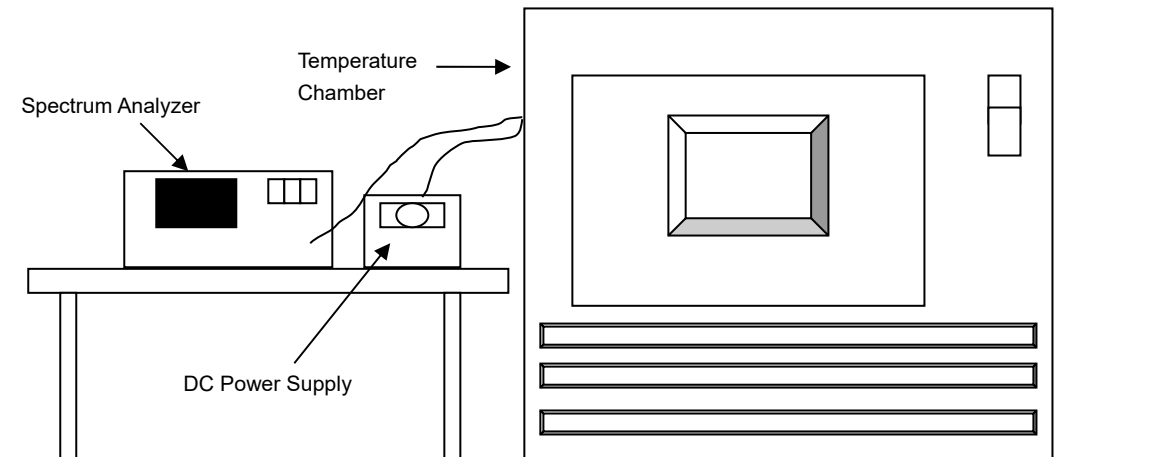


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 07, 2021	Jun. 06, 2022
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2021	May 31, 2022
Digital Multimeter Fluke	87-III	70360755	Jul. 08, 2021	Jul. 07, 2022
AC Power Supply Extech	CFW-105	E000603	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. Tested date: May 05, 2022

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat step d with every 10 degrees reduction until the lowest temperature achieved.
- 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.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

802.11a:

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (°C)	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
35	3.87	5179.9921	Pass	5179.9886	Pass	5179.9915	Pass	5179.9884	Pass
30	3.87	5180.0054	Pass	5180.0062	Pass	5180.0050	Pass	5180.0046	Pass
20	3.87	5180.0193	Pass	5180.0176	Pass	5180.0199	Pass	5180.0170	Pass
10	3.87	5179.9767	Pass	5179.9738	Pass	5179.9766	Pass	5179.9774	Pass
5	3.87	5180.0084	Pass	5180.0072	Pass	5180.0060	Pass	5180.0067	Pass

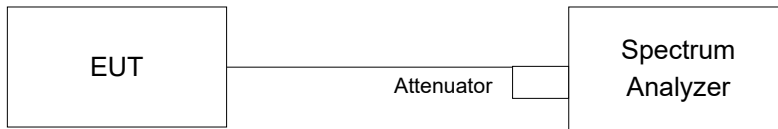
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	4.45	5180.0239	Pass	5180.0258	Pass	5180.0234	Pass	5180.0255	Pass
	3.87	5180.0193	Pass	5180.0176	Pass	5180.0199	Pass	5180.0170	Pass
	3.29	5180.0152	Pass	5180.0168	Pass	5180.0166	Pass	5180.0150	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- 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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	3.07	3.09	0.5	Pass
149	5745	16.42	16.38	0.5	Pass
157	5785	16.45	16.37	0.5	Pass
165	5825	16.38	16.40	0.5	Pass

For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	4.32	4.29	0.5	Pass
149	5745	18.99	18.70	0.5	Pass
157	5785	18.87	18.64	0.5	Pass
165	5825	18.84	18.86	0.5	Pass

For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142	5710 (For U-NII-3)	3.91	3.71	0.5	Pass
151	5755	37.97	37.63	0.5	Pass
159	5795	37.95	38.02	0.5	Pass

For CH142 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

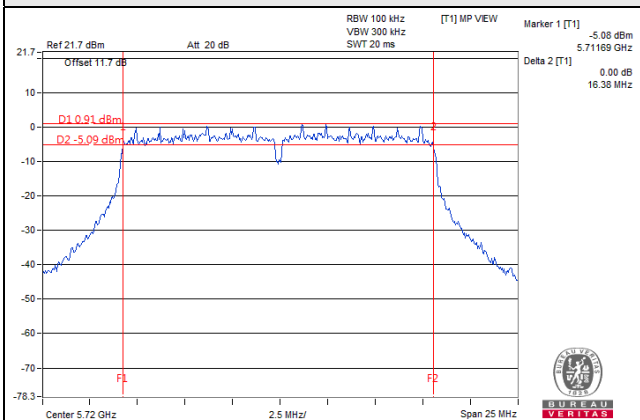
802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (For U-NII-3)	3.92	3.24	0.5	Pass
155	5775	77.53	77.72	0.5	Pass

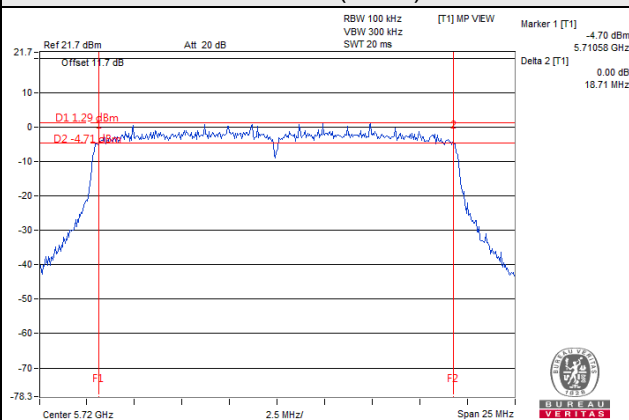
For CH138 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

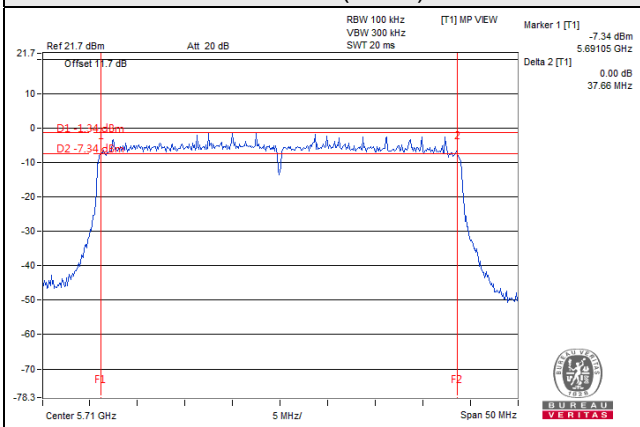
802.11a



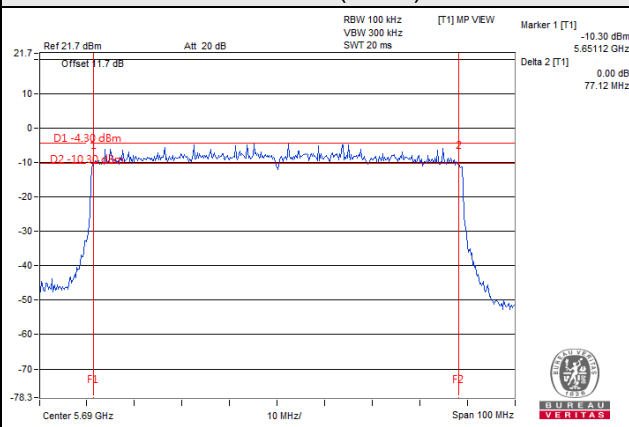
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)

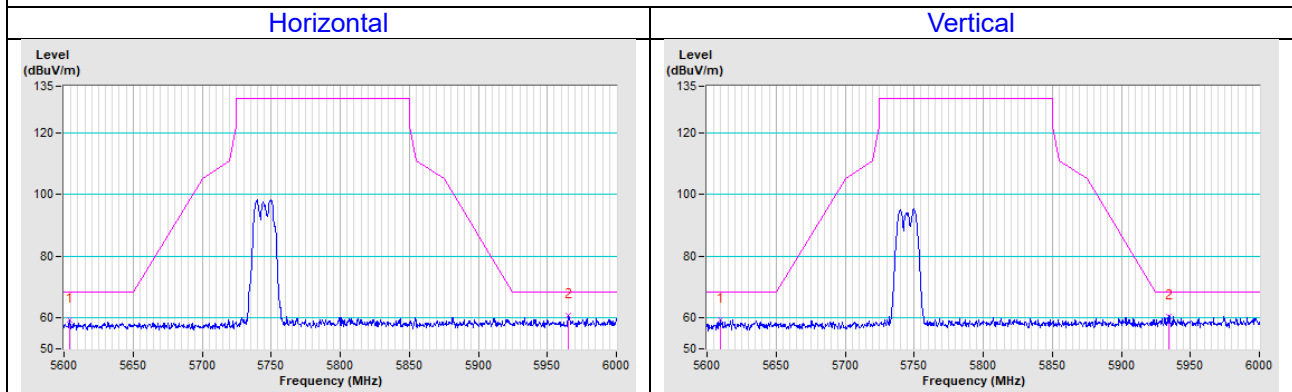


5 Pictures of Test Arrangements

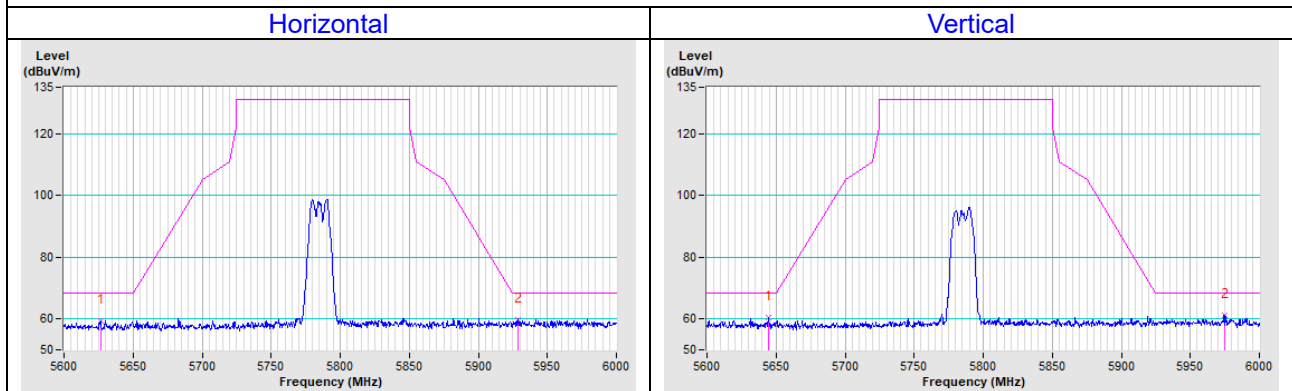
Please refer to the attached file (Test Setup Photo).

Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

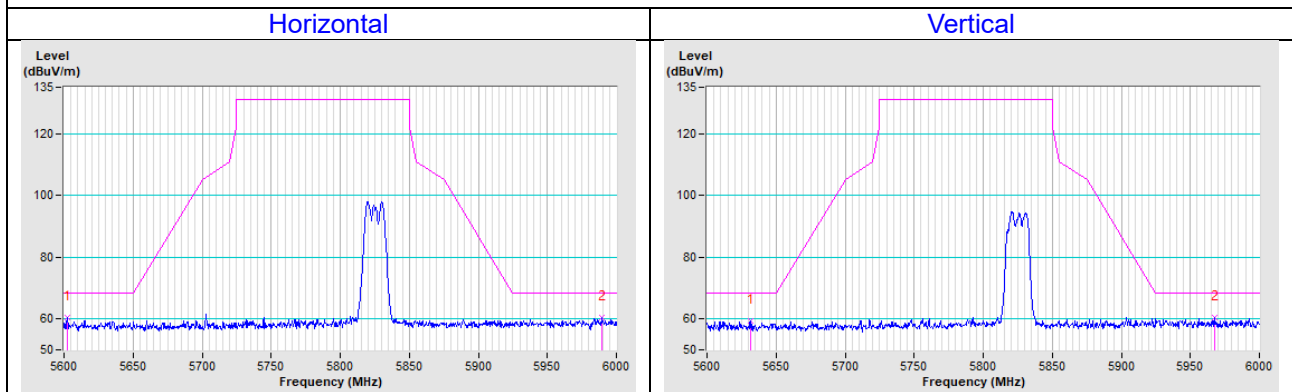
802.11a CH 149 : 5745 MHz



802.11a CH 157 : 5785 MHz

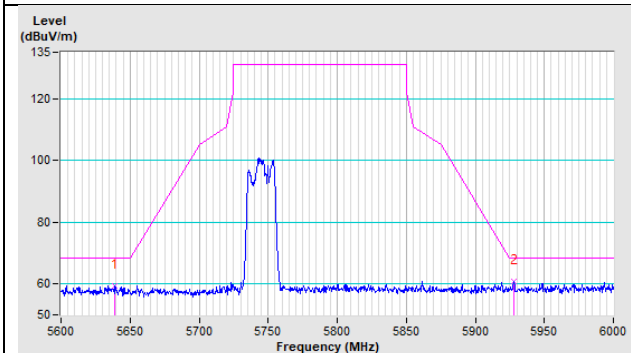


802.11a CH 165 : 5825 MHz

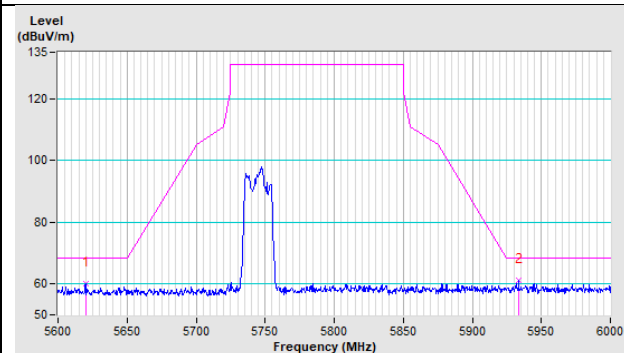


802.11ax (HE20) CH 149 : 5745 MHz

Horizontal

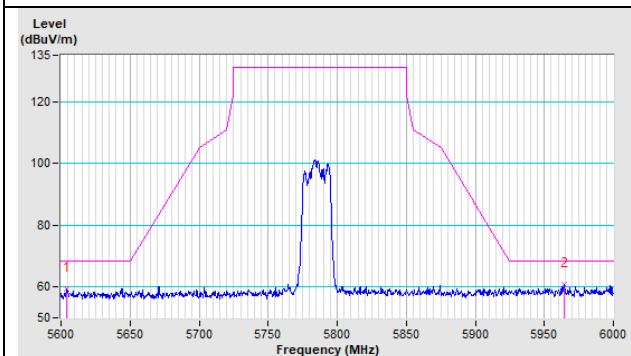


Vertical

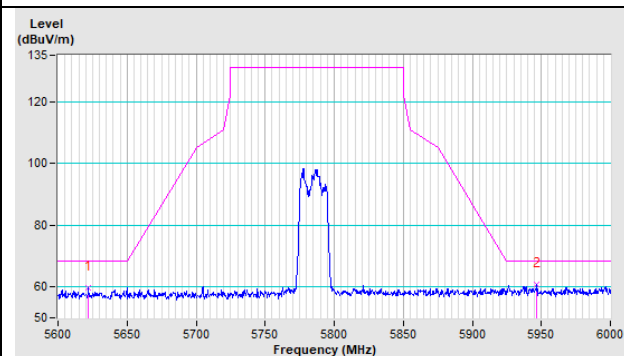


802.11ax (HE20) CH 157 : 5785 MHz

Horizontal

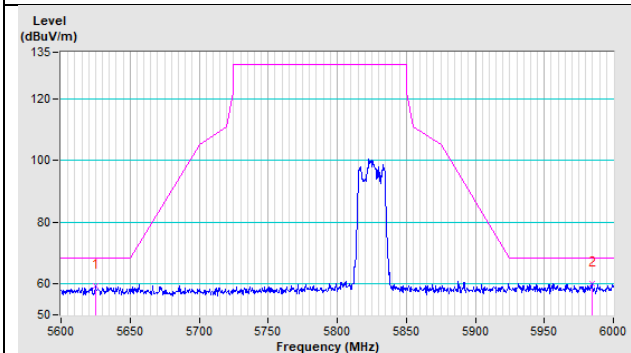


Vertical

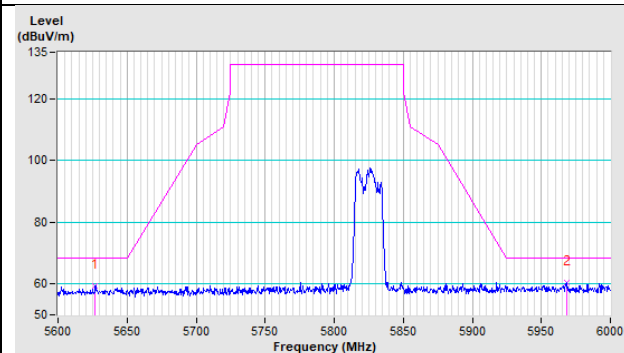


802.11ax (HE20) CH 165 : 5825 MHz

Horizontal

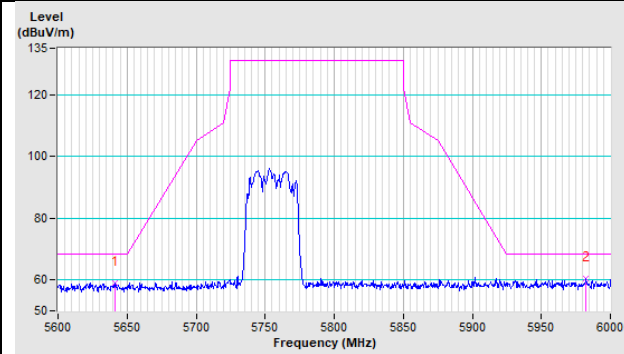


Vertical

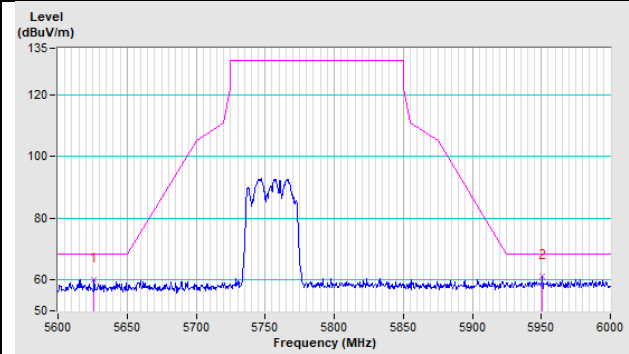


802.11ax (HE40) CH 151 : 5755 MHz

Horizontal

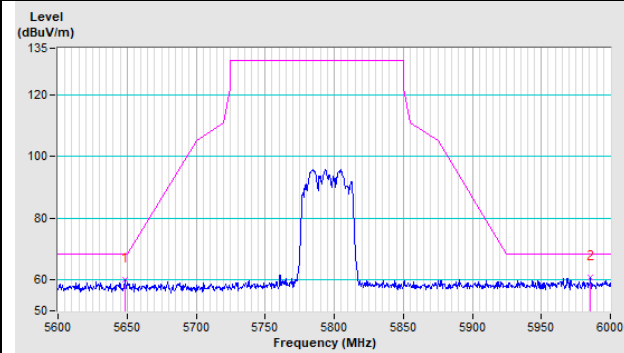


Vertical

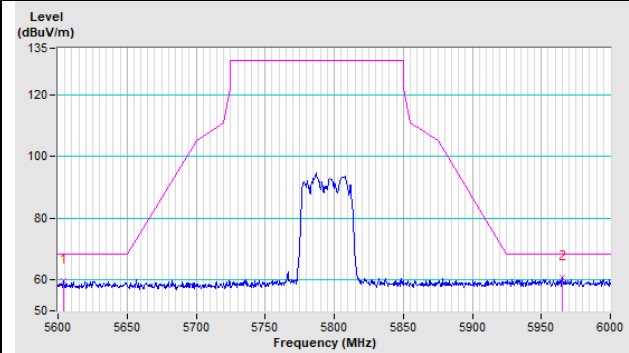


802.11ax (HE40) CH 159 : 5795 MHz

Horizontal

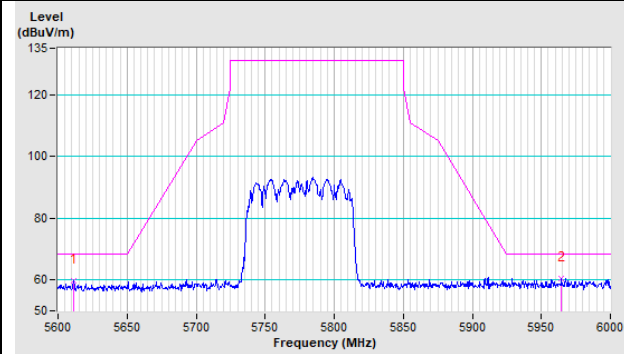


Vertical

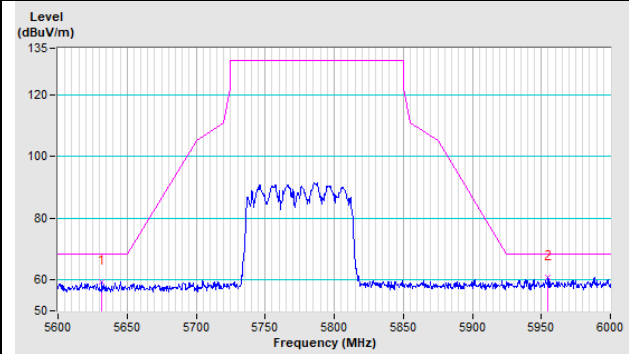


802.11ax (HE80) CH 155 : 5775 MHz

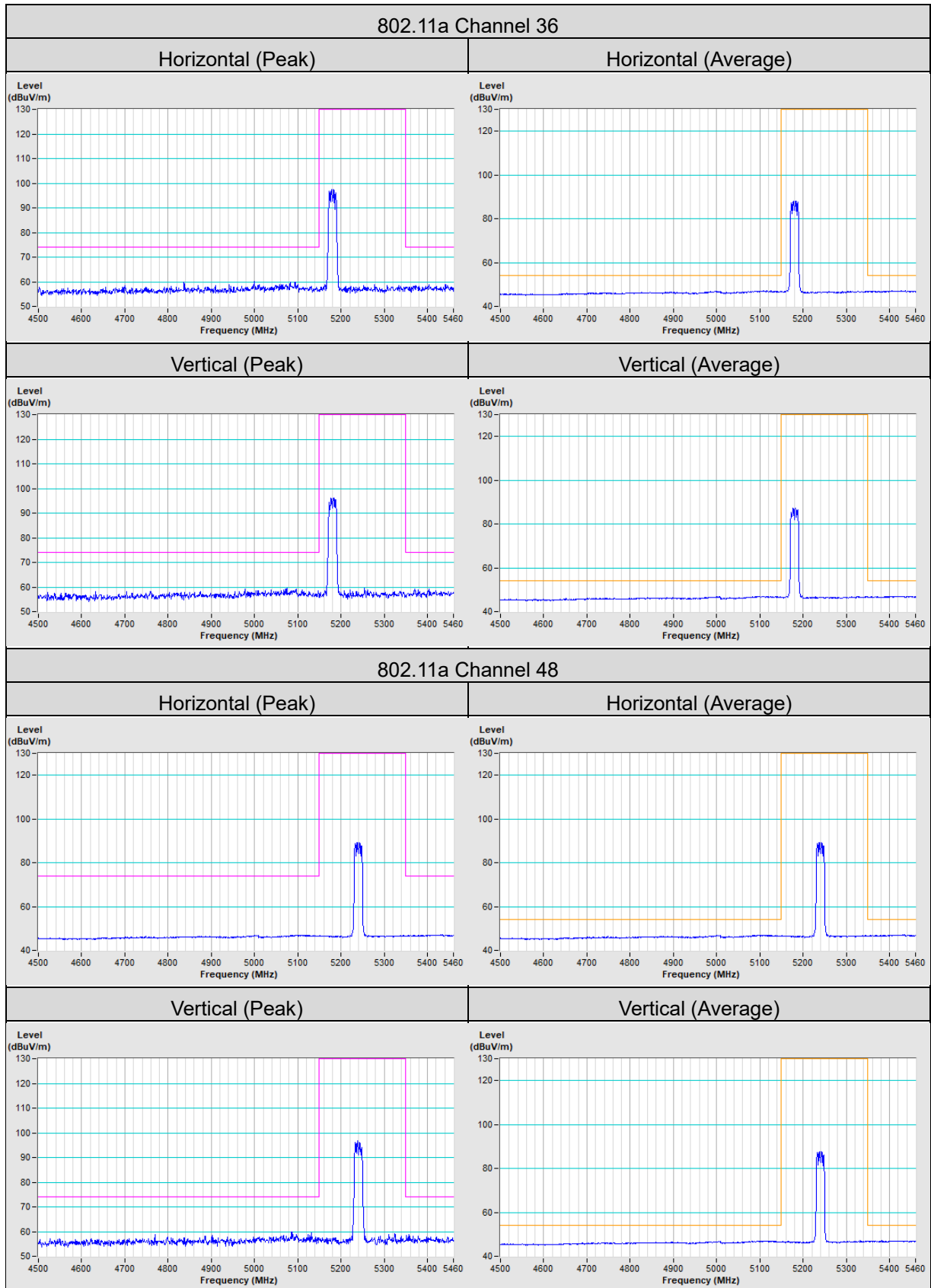
Horizontal



Vertical

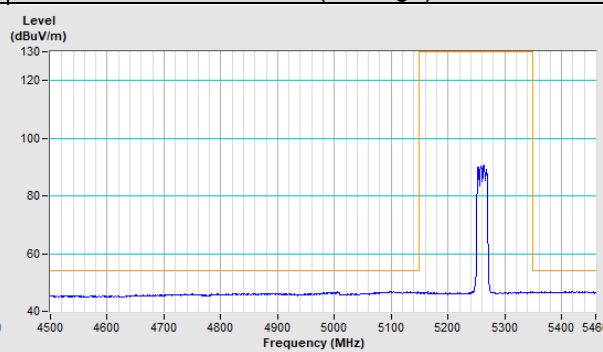
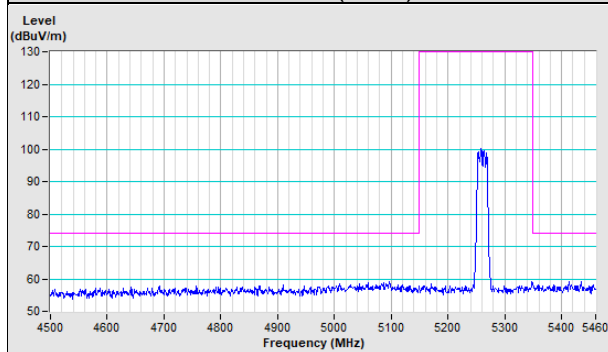


Annex B - Band Edge Measurement

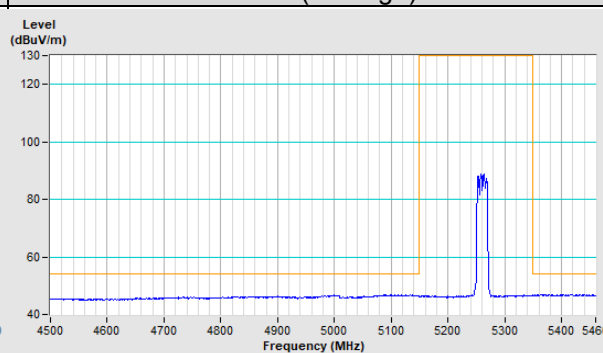
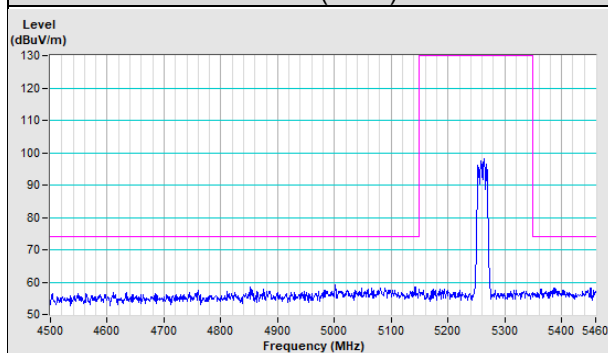


802.11a Channel 52

Horizontal (Peak)	Horizontal (Average)
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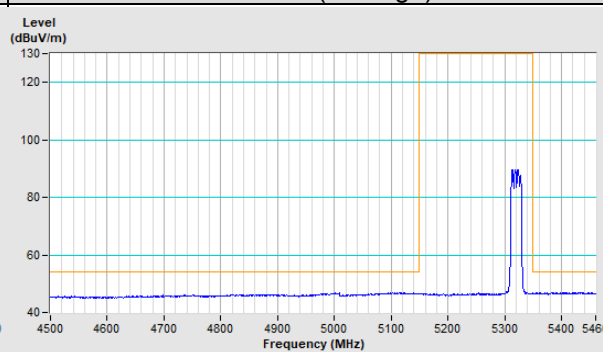
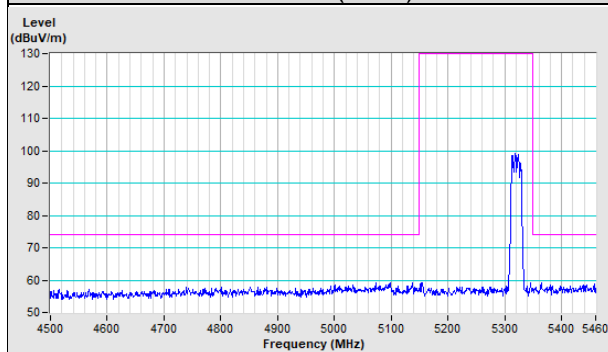


Vertical (Peak)	Vertical (Average)
------------------------	---------------------------

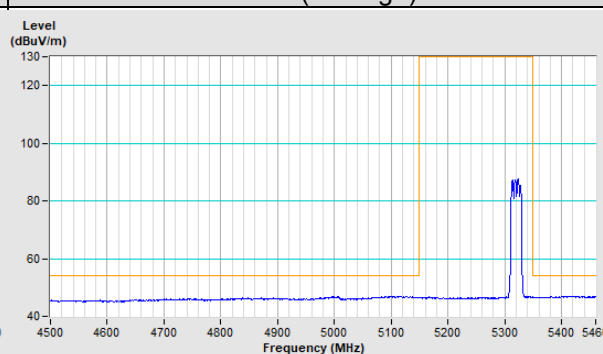
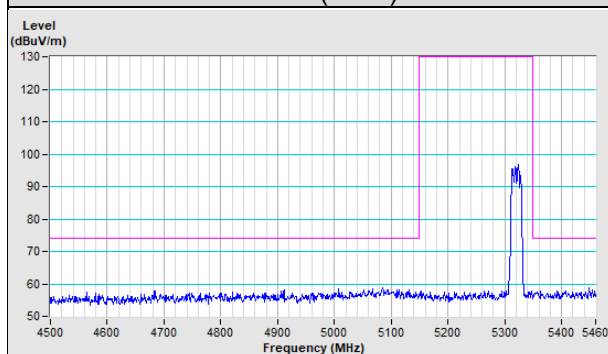


802.11a Channel 64

Horizontal (Peak)	Horizontal (Average)
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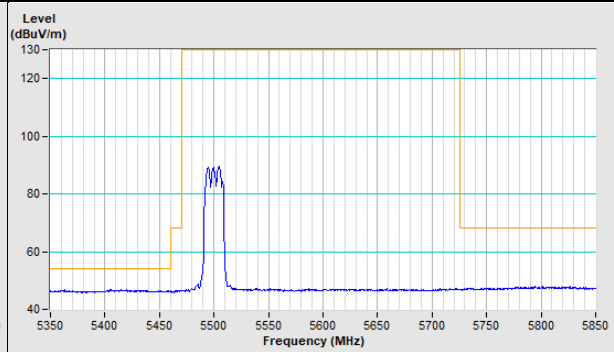
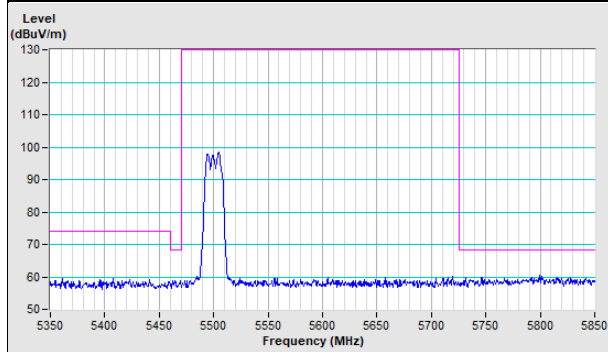


Vertical (Peak)	Vertical (Average)
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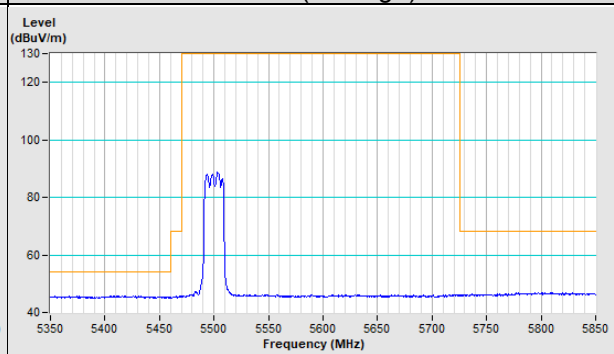
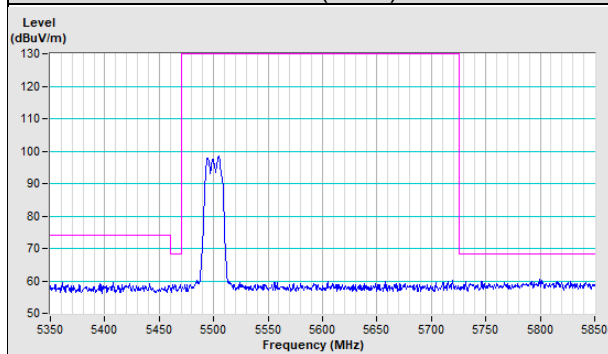


802.11a Channel 100

Horizontal (Peak)	Horizontal (Average)
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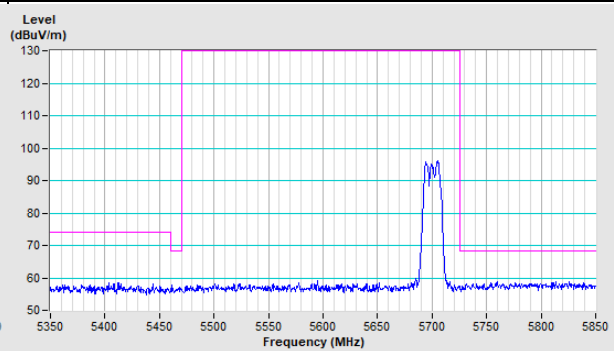
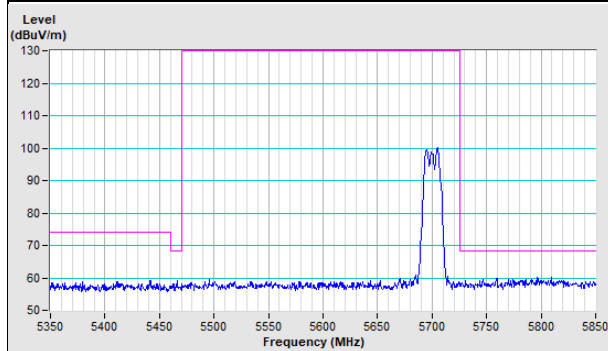


Vertical (Peak)	Vertical (Average)
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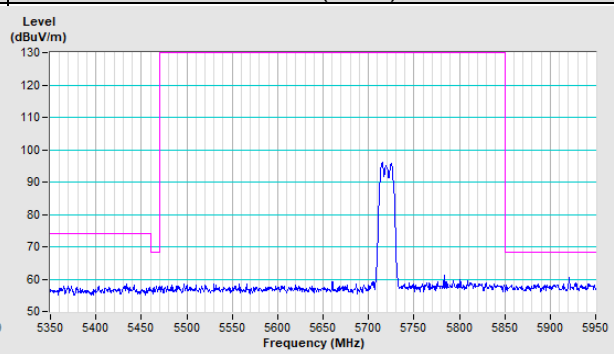
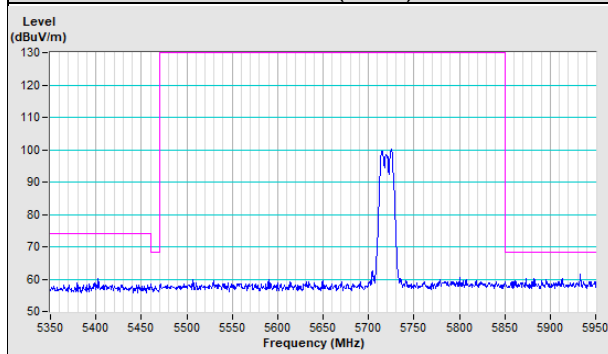
802.11a Channel 140

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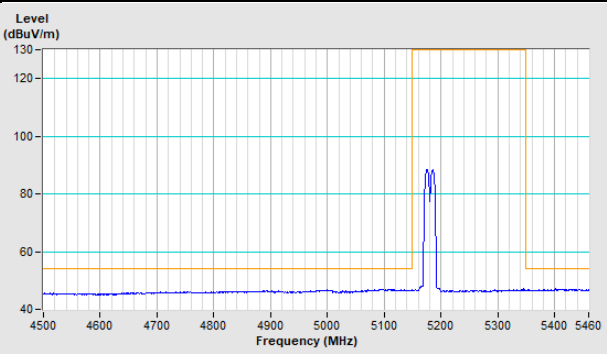
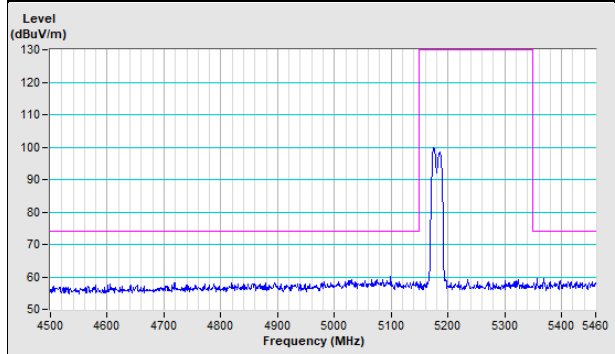
802.11a Channel 144

Horizontal (Peak)	Vertical (Peak)
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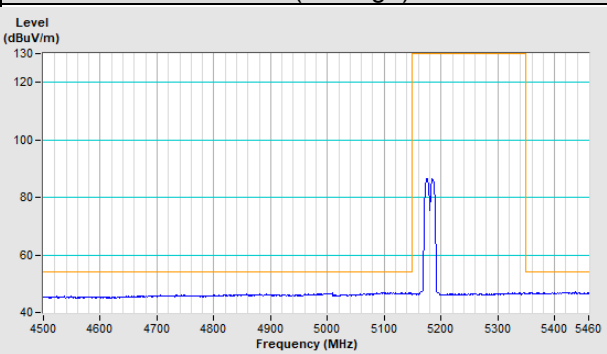
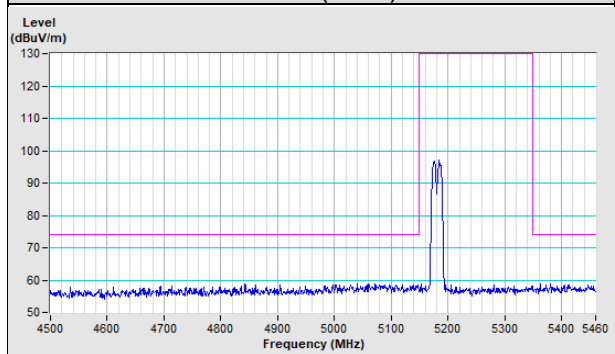


802.11ax (HTE20) Channel 36

Horizontal (Peak) Horizontal (Average)

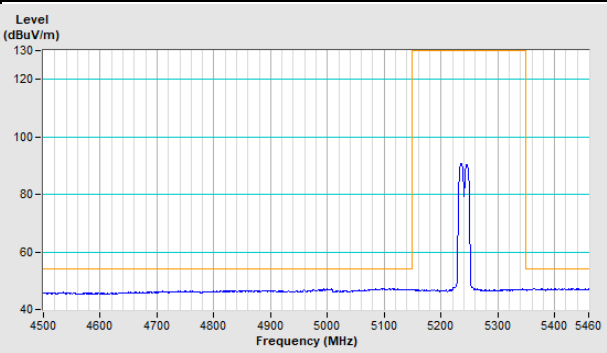
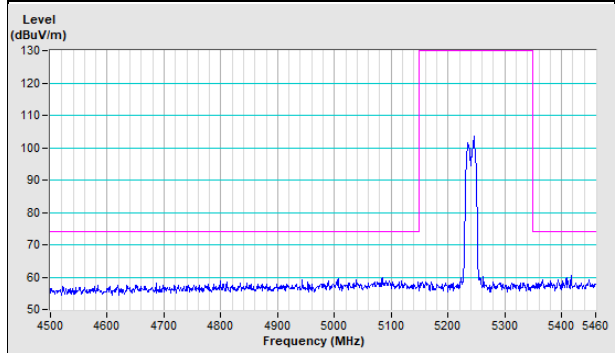


Vertical (Peak) Vertical (Average)

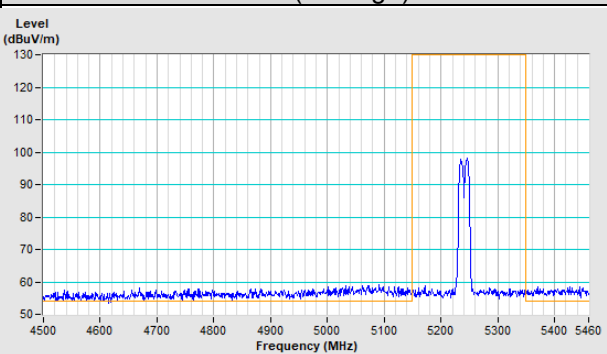
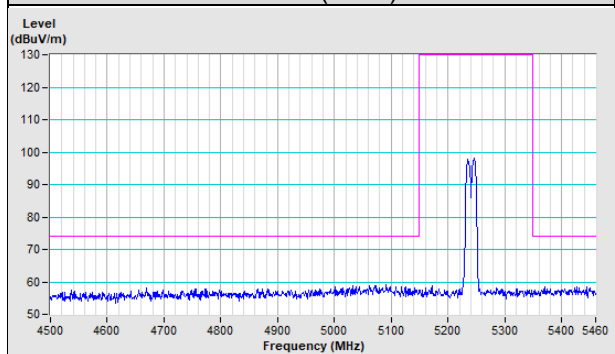


802.11ax (HTE20) Channel 48

Horizontal (Peak) Horizontal (Average)

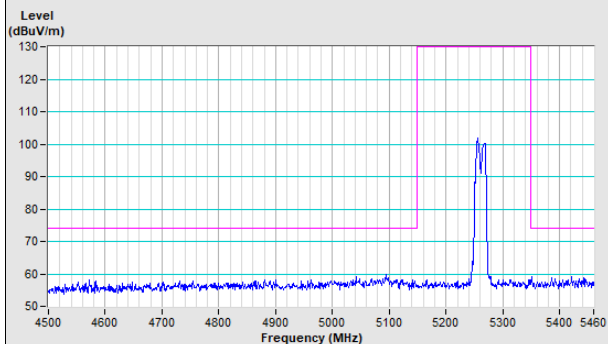


Vertical (Peak) Vertical (Average)

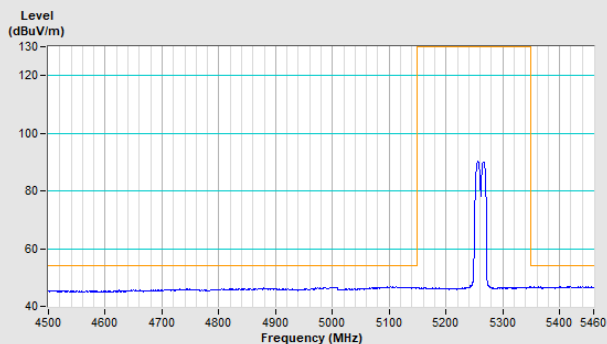


802.11ax (HTE20) Channel 52

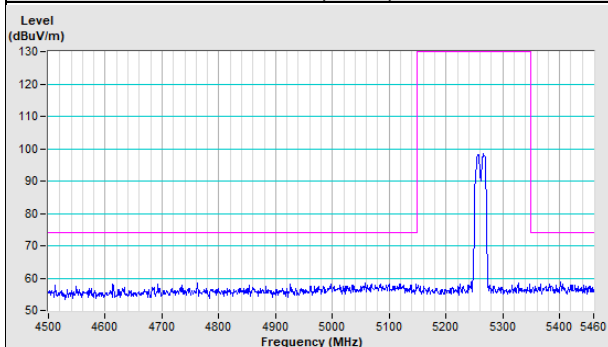
Horizontal (Peak)



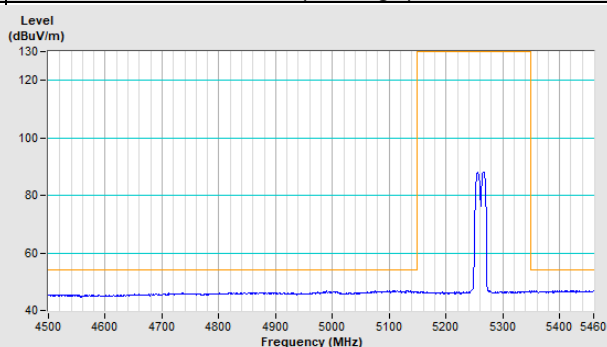
Horizontal (Average)



Vertical (Peak)

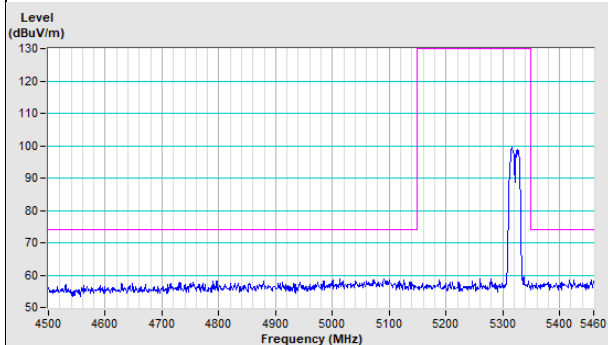


Vertical (Average)

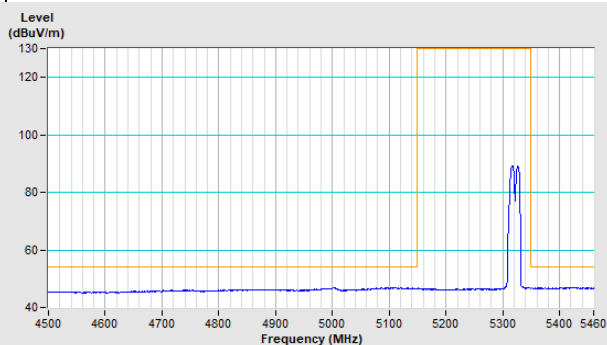


802.11ax (HTE20) Channel 64

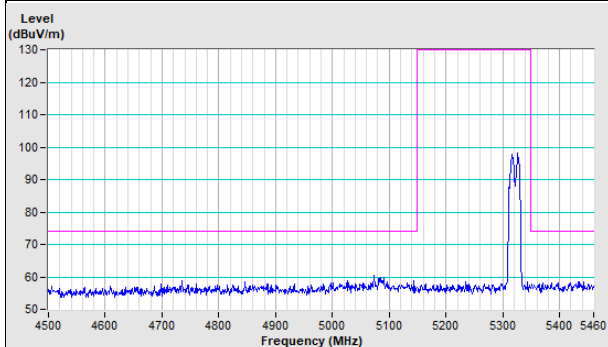
Horizontal (Peak)



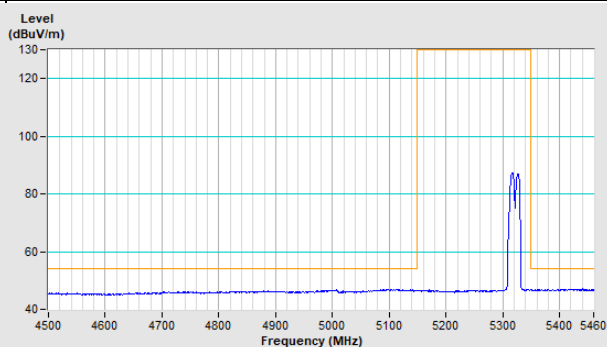
Horizontal (Average)



Vertical (Peak)

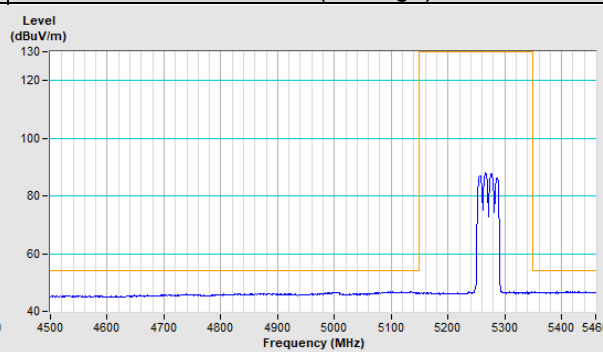
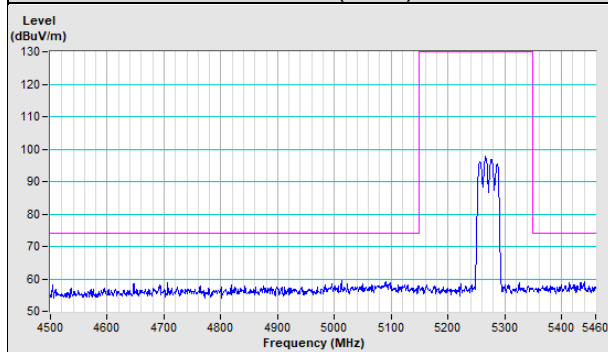


Vertical (Average)

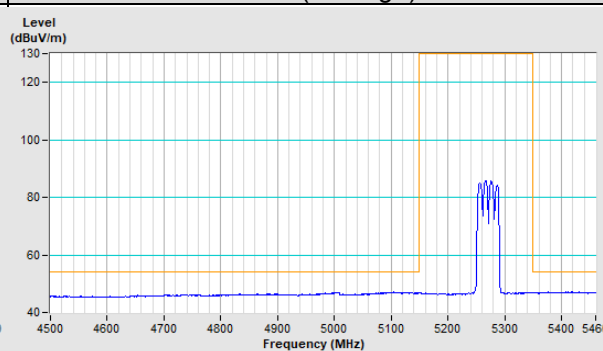
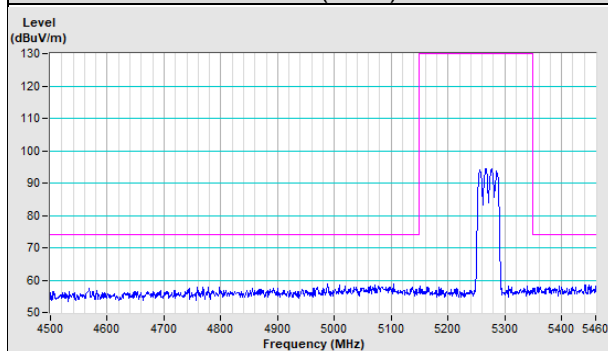


802.11ax (HTE40) Channel 54

Horizontal (Peak)	Horizontal (Average)
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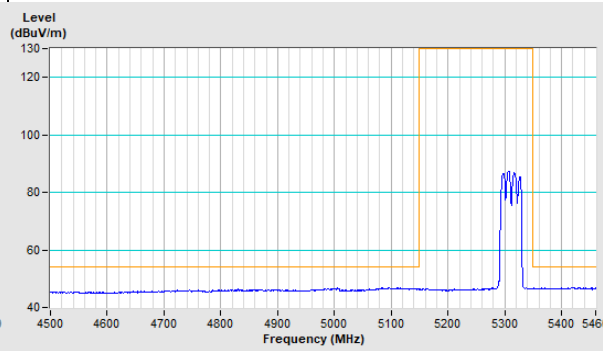
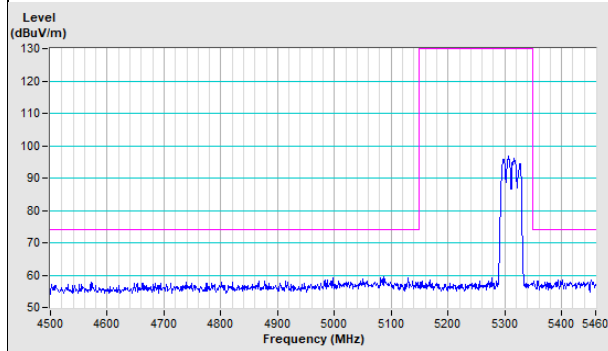


Vertical (Peak)	Vertical (Average)
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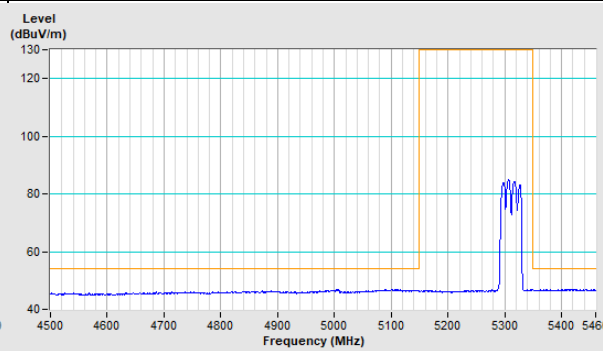
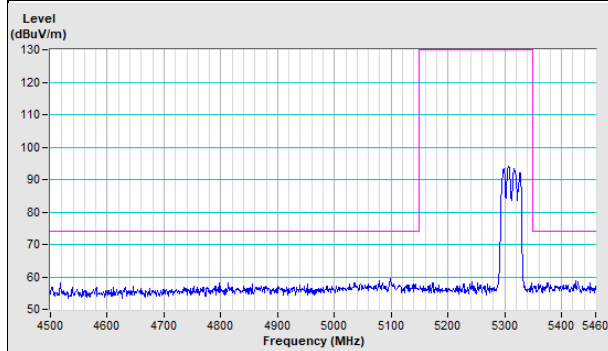


802.11ax (HTE40) Channel 62

Horizontal (Peak)	Horizontal (Average)
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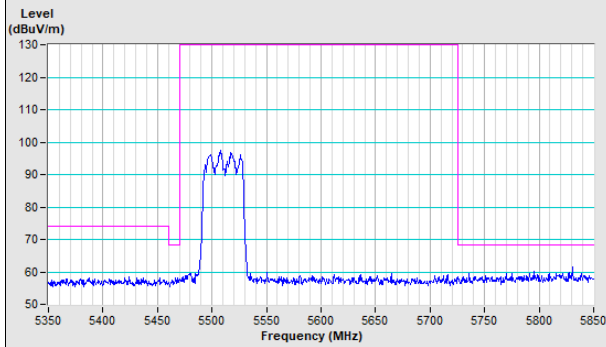


Vertical (Peak)	Vertical (Average)
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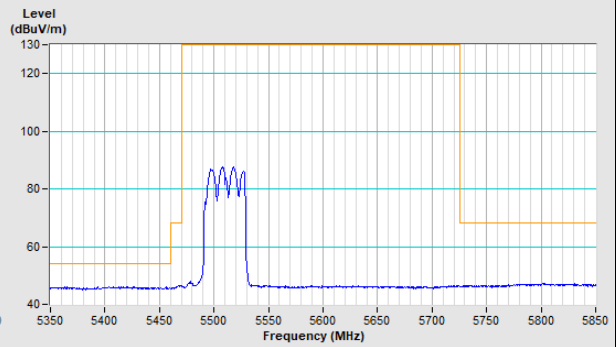


802.11ax (HTE40) Channel 102

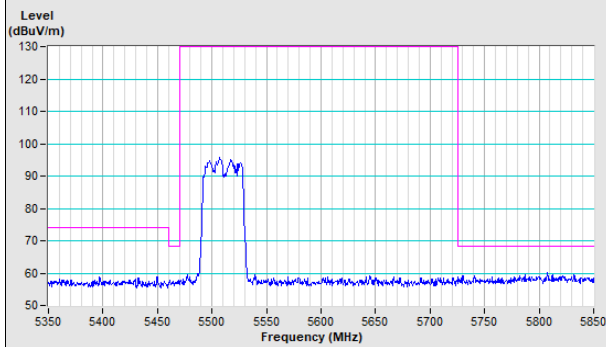
Horizontal (Peak)



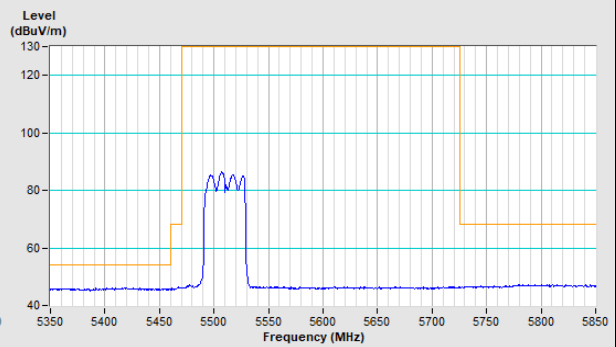
Horizontal (Average)



Vertical (Peak)

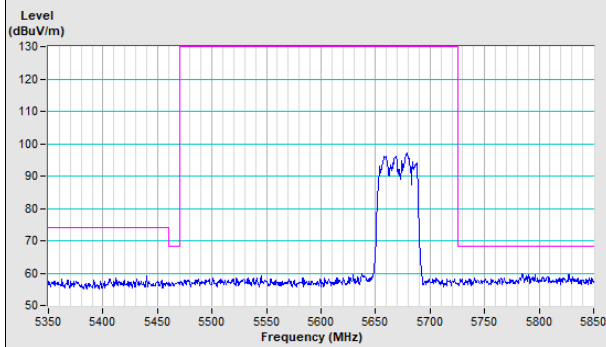


Vertical (Average)

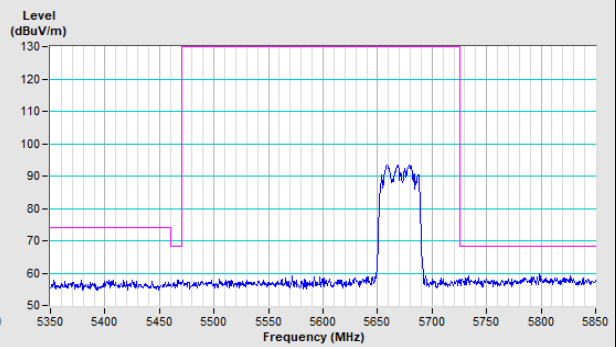


802.11ax (HTE40) Channel 134

Horizontal (Peak)

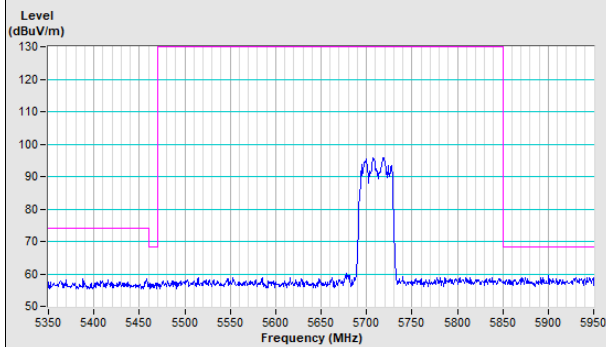


Vertical (Peak)

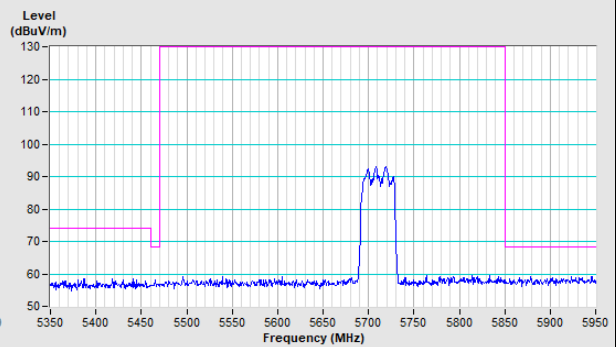


802.11ax (HTE40) Channel 142

Horizontal (Peak)

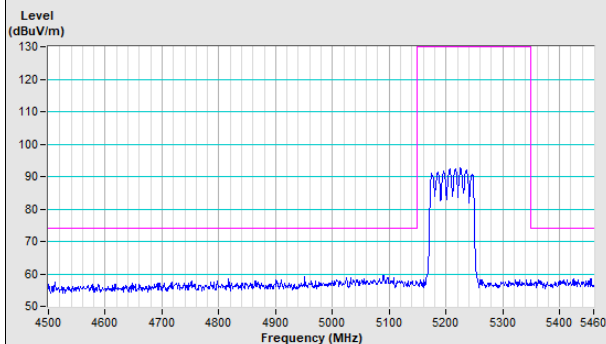


Vertical (Peak)

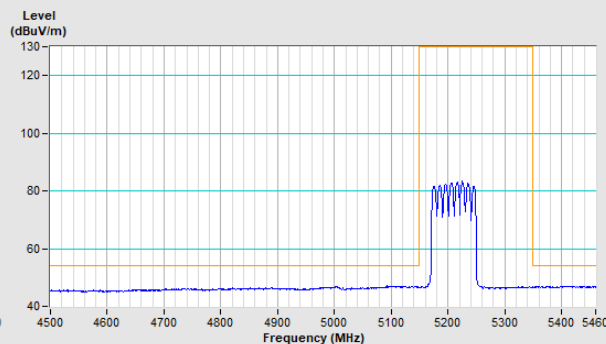


802.11ax (HTE80) Channel 42

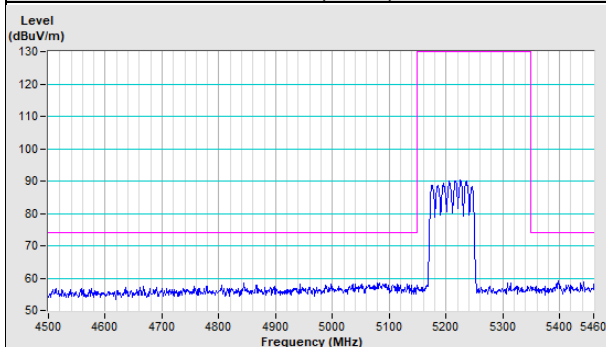
Horizontal (Peak)



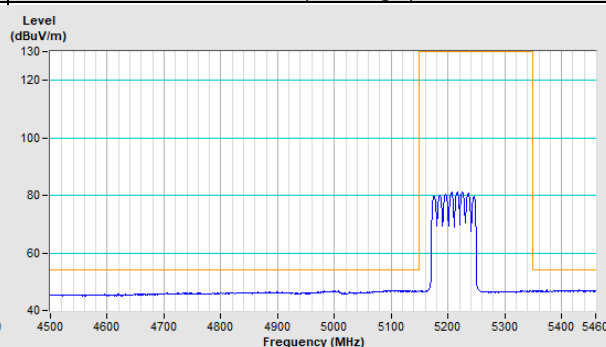
Horizontal (Average)



Vertical (Peak)

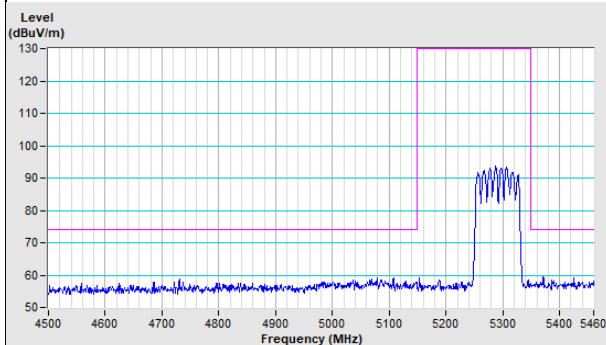


Vertical (Average)

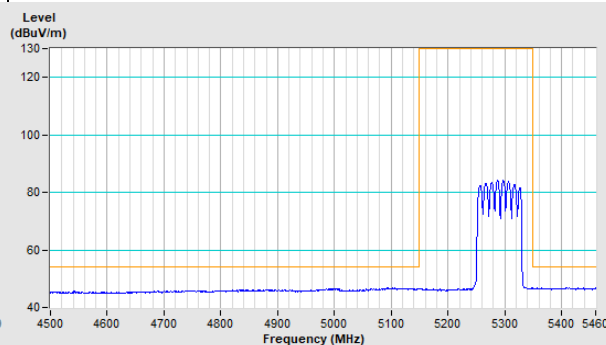


802.11ax (HTE80) Channel 58

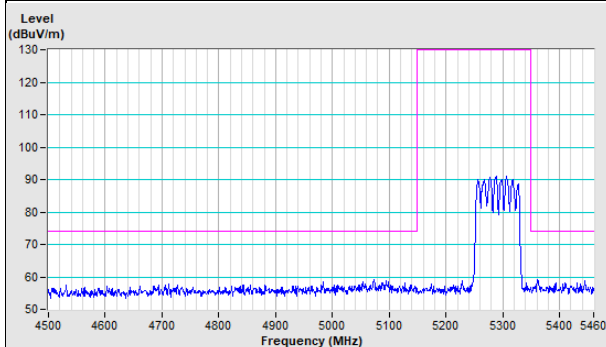
Horizontal (Peak)



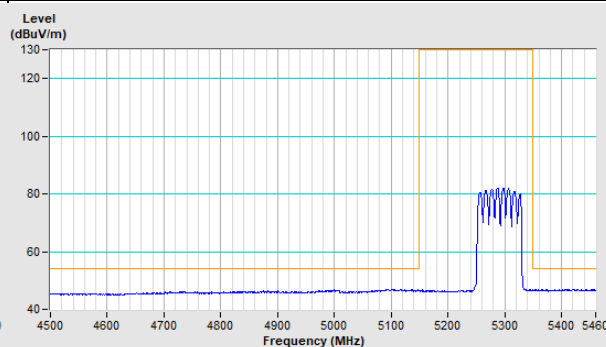
Horizontal (Average)



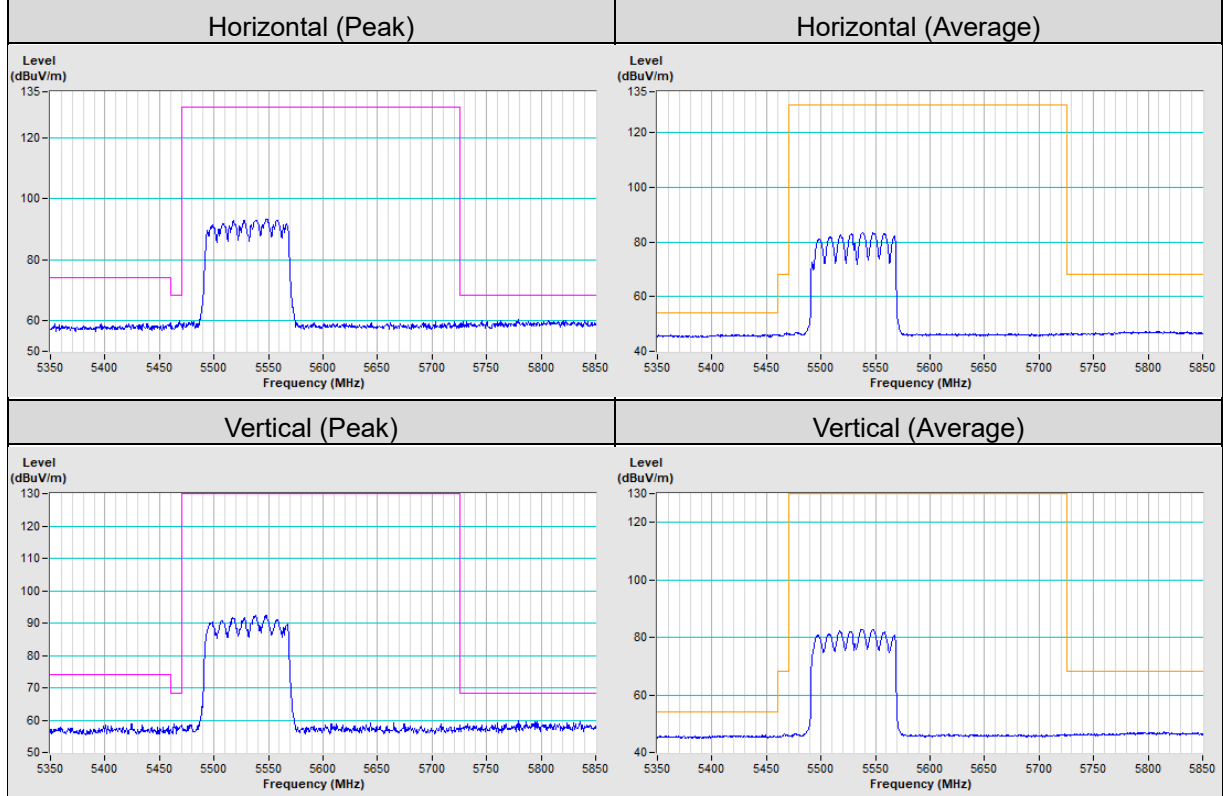
Vertical (Peak)



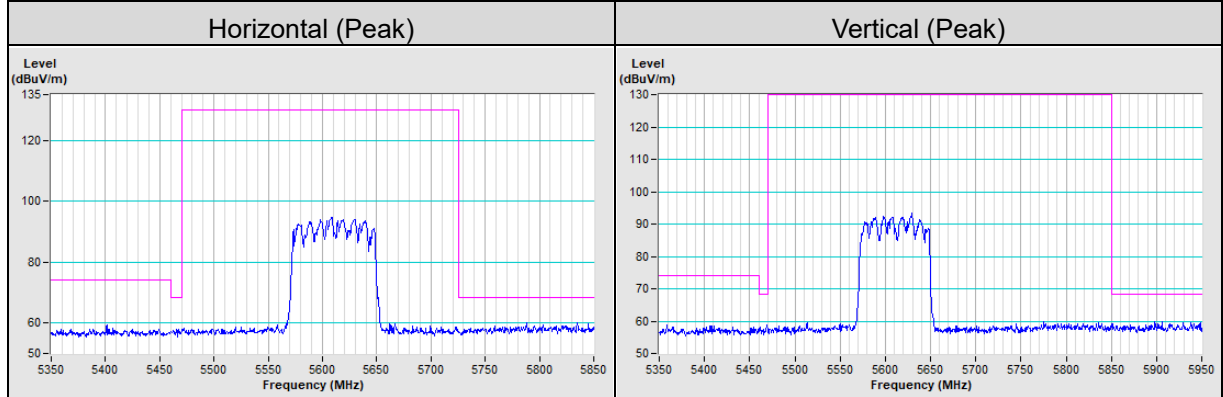
Vertical (Average)



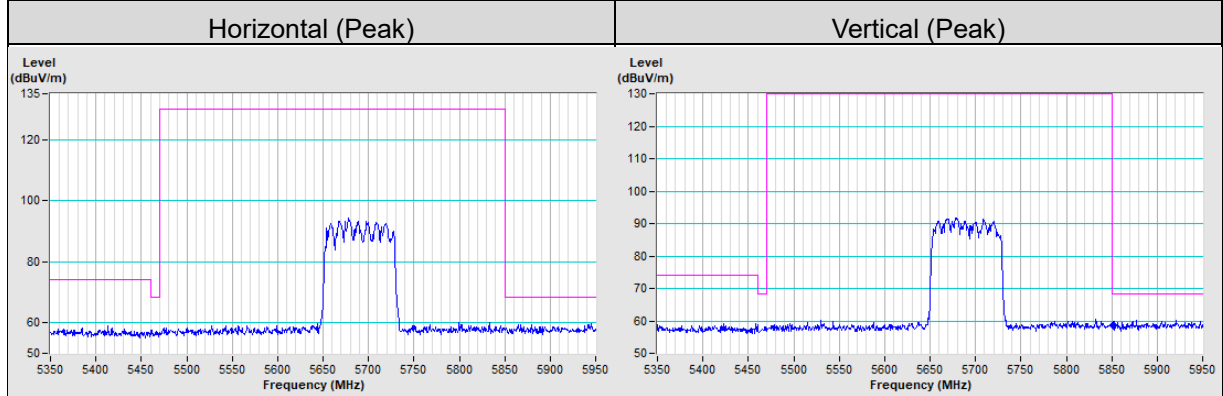
802.11ax (HTE80) Channel 106



802.11ax (HTE80) Channel 122

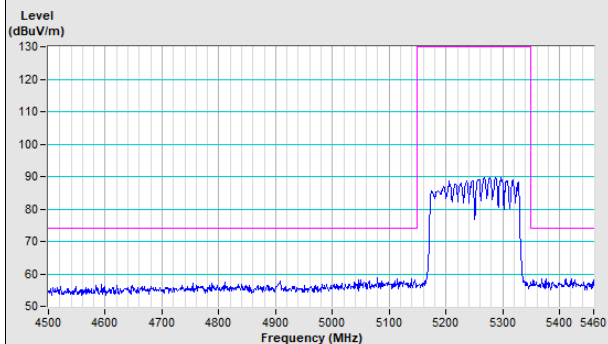


802.11ax (HTE80) Channel 138

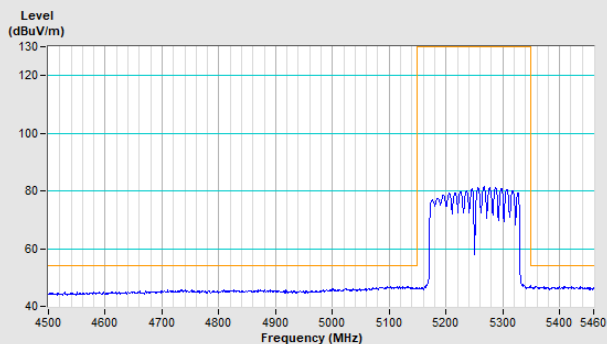


802.11ax (HE160) Channel 50

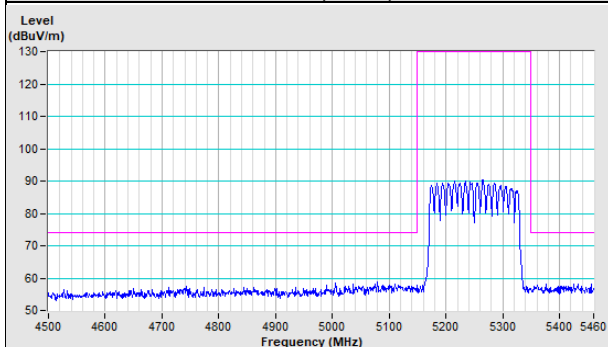
Horizontal (Peak)



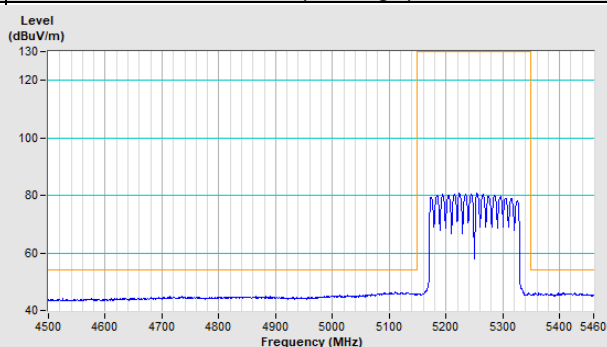
Horizontal (Average)



Vertical (Peak)

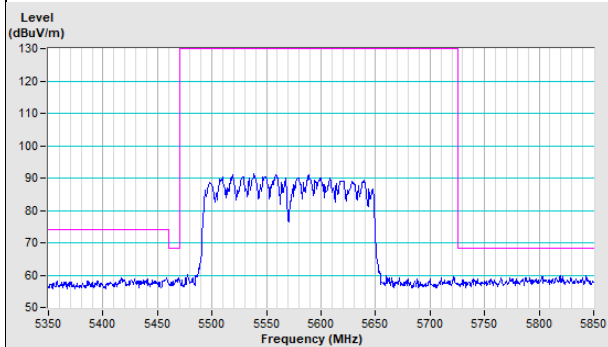


Vertical (Average)

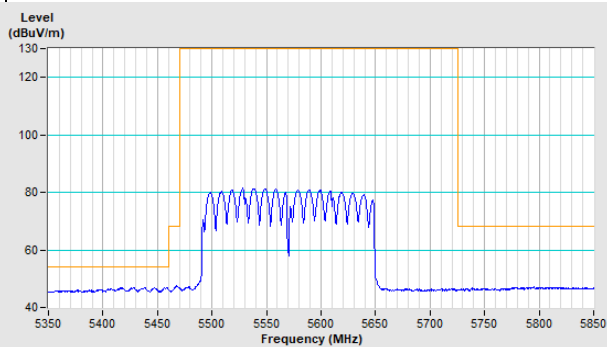


802.11ax (HE160) Channel 114

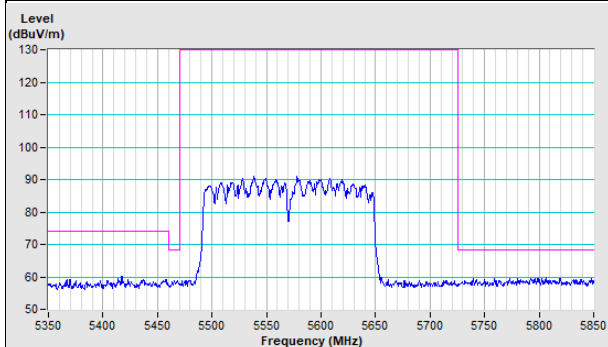
Horizontal (Peak)



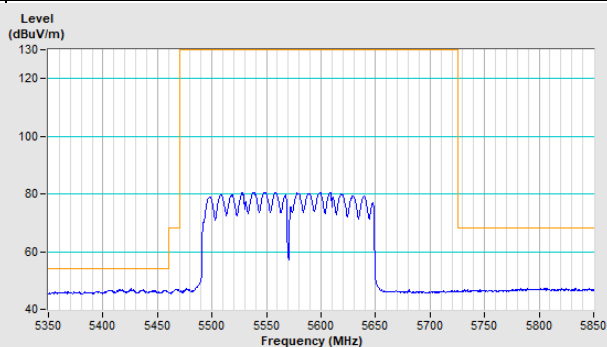
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



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.

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Email: service.adt@tw.bureauveritas.com

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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