

FCC Test Report

Report No.: RFBEQF-WTW-P22010504-1

FCC ID: BEJNT-14T90Q

Test Model: 14T90Q

Series Model: 14TD90Q, 14TG90Q, 14TB90Q (refer to item 3.1 for more details)

Received Date: Jan. 14, 2022

Test Date: Feb. 10 ~ Mar. 02, 2022

Issued Date: Mar. 25, 2022

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FCC Registration / 788550 / TW0003

Designation Number(1):

FCC Registration /

Designation Number(2): 281270 / TW0032



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Release Control Record

Issue No.	Description	Date Issued
RFBEQF-WTW-P22010504-1	Original release.	Mar. 25, 2022

1 Certificate of Conformity

Product: Notebook Computer

Brand: LG

Test Model: 14T90Q

Series Model: 14TD90Q, 14TG90Q, 14TB90Q (refer to item 3.1 for more details)


Sample Status: Engineering sample


Applicant: LG Electronics USA

Test Date: Feb. 10 ~ Mar. 02, 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:** Mar. 25, 2022
Polly Chien / Specialist

Approved by : , **Date:** Mar. 25, 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 -19.60dB at 13.24068MHz.
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 -1.27dB at 5740.00MHz.
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:

- For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
- 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.
- 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	3.00 dB
	30MHz ~ 200MHz	2.91 dB
	200MHz ~ 1000MHz	2.92 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	1.76 dB
	18GHz ~ 40GHz	1.77 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Notebook Computer
Brand	LG
Test Model	14T90Q
Series Model	14TD90Q, 14TG90Q, 14TB90Q
Model Difference	For marketing purpose
Sample Status	Engineering sample
Power Supply Rating	7.7 Vdc (Battery) 5 Vdc / 15Vdc / 9Vdc / 20Vdc (Adapter)
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	1TX
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 accessory devices.

Product	Brand	Model	Description
Battery	LG	LBS1224E	7.7Vdc, 72Wh or Typ. 9450mAh or Min 9130 mAh
Adapter	LG	ADT-65DSU-D03-2	I/P: 100-240Vac, 50-60Hz, 1.6A O/P: 20Vdc, 3.25A, 65W (USB-PD) 5.0Vdc, 3.0A, 15.0W or 9.0Vdc, 3.0A, 27.0 W or 15.0Vdc, 3.0A, 45.0W Power cord: 1.5m 1.47m
Module	Intel	AX211D2W	

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

NB:

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)					Connector
				2400-2483.5MHz	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz	
PIFA	CHILISIN	Main	DQ600111501 (BTEA00111525GC1A02)	2.45	2.14	0.94	1.80	1.72	I-PEX
		Aux.	DQ600111501 (BTEA00111525GC1A02)	1.39	2.12	2.64	2.40	0.90	
	Pulse	Main	DQ602118000 (TZ21180)	3.14	2.18	1.01	2.19	2.29	I-PEX
		Aux.	DQ602118000 (TZ21180)	2.96	2.21	3.89	3.34	1.29	

Tablet:

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)					Connector
				2400-2483.5MHz	5150-5250MHz	5250-5350MHz	5470-5725MHz	5725-5850MHz	
PIFA	CHILISIN	Main	DQ600111501 (BTEA00111525GC1A02)	-0.50	1.37	0.75	1.30	-0.42	I-PEX
		Aux.	DQ600111501 (BTEA00111525GC1A02)	1.48	1.02	0.86	1.40	1.29	
	Pulse	Main	DQ602118000 (TZ21180)	0.03	1.65	1.05	1.36	0.58	I-PEX
		Aux.	DQ602118000 (TZ21180)	1.91	1.25	0.98	1.91	1.57	

* The NB mode has the largest antenna and was chosen for final test.

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

5. Output Power are as below:

Frequency (MHz)	Output Power (mW): 1TX							
	Full RU							
5180-5250	14.060							
5250-5320	13.964							
5500-5720	13.836							
5745-5825	13.521							
Frequency (MHz)	Output Power (mW): 2TX							
	Full RU	Partial RU						
		RU26	RU52	RU106	RU242	RU486	RU996	RU996S
5180-5250	27.641	27.167	27.198	27.168	27.418	27.137	25.412	0.005
5250-5320	27.673	26.897	26.958	26.836	27.451	26.917	0.004	26.457
5500-5720	27.895	27.418	27.513	27.481	27.671	27.292	27.577	27.514
5745-5825	27.704	27.292	27.355	27.198	27.043	27.261	-	-

6. 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≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE<1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 APCM: Antenna Port Conducted Measurement

Note: 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

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	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5250-5320	52 to 64	64	OFDMA	MCS0
	802.11ax (HE40)		54 to 62	62	OFDMA	MCS0
	802.11ax (HE80)		58	58	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5500-5720	100 to 140	100, 140	OFDMA	MCS0
	802.11ax (HE40)		102 to 134	102, 134	OFDMA	MCS0
	802.11ax (HE80)		106	106	OFDMA	MCS0
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11ax (HE20)	5745-5825	149 to 165	149	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 (HE40)	5180-5250	38 to 46	134	OFDMA	MCS0
	802.11ax (HE40)	5250-5320	54 to 62		OFDMA	MCS0
	802.11ax (HE40)	5500-5720	102 to 134		OFDMA	MCS0
	802.11ax (HE40)	5745-5825	151 to 159		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 (HE40)	5180-5250	38 to 46	134	OFDMA	MCS0
	802.11ax (HE40)	5250-5320	54 to 62		OFDMA	MCS0
	802.11ax (HE40)	5500-5720	102 to 134		OFDMA	MCS0
	802.11ax (HE40)	5745-5825	151 to 159		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

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	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5250-5320	52 to 64	64	OFDMA	MCS0
	802.11ax (HE40)		54 to 62	62	OFDMA	MCS0
	802.11ax (HE80)		58	58	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5500-5720	100 to 140	100, 140	OFDMA	MCS0
	802.11ax (HE40)		102 to 134	102, 134	OFDMA	MCS0
	802.11ax (HE80)		106	106	OFDMA	MCS0
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11ax (HE20)	5745-5825	149 to 165	149	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 (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	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
	802.11ac (VHT160)		50	50	OFDM	58.5
	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
	802.11n (HT20)		100 to 144	100, 116, 140, 144	OFDM	MCS0
	802.11n (HT40)		102 to 142	102, 110, 134, 142	OFDM	MCS0
	802.11ac (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	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	MCS0
	802.11n (HT40)		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	OFDMA	MCS0
	802.11ax (HE40)		38 to 46	38	OFDMA	MCS0
	802.11ax (HE80)		42	42	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5250-5320	52 to 64	64	OFDMA	MCS0
	802.11ax (HE40)		54 to 62	62	OFDMA	MCS0
	802.11ax (HE80)		58	58	OFDMA	MCS0
	802.11ax (HE160)		50	50	OFDMA	MCS0
-	802.11ax (HE20)	5500-5720	100 to 140	100, 140	OFDMA	MCS0
	802.11ax (HE40)		102 to 134	102, 134	OFDMA	MCS0
	802.11ax (HE80)		106 to 138	106	OFDMA	MCS0
	802.11ax (HE160)		114	114	OFDMA	MCS0
-	802.11ax (HE20)	5745-5825	149 to 165	149	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\geq1G	23 deg. C, 66% RH	120Vac, 60Hz	Adair Peng, Edsion Lee
RE<1G	23 deg. C, 66% RH	120Vac, 60Hz	Adair Peng
PLC	25 deg. C, 75% RH	120Vac, 60Hz	Randy Wu
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Chris 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: Chain 0: Duty cycle = 2.079ms/2.133ms = 0.975, Duty factor = $10 * \log(1/0.975) = 0.11$

802.11a: Chain 1: Duty cycle = 2.074ms/2.132ms = 0.973, Duty factor = $10 * \log(1/0.973) = 0.12$

802.11ax (HE20): Duty cycle = 3.953ms/4.012ms = 0.985

802.11ax (HE40): Duty cycle = 3.951ms/4.034ms = 0.979, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11ax (HE80): Duty cycle = 3.968ms/4.023ms = 0.986

802.11ax (HE160): Duty cycle = 2.265ms /2.339ms = 0.968, Duty factor = $10 * \log(1/0.968) = 0.14$

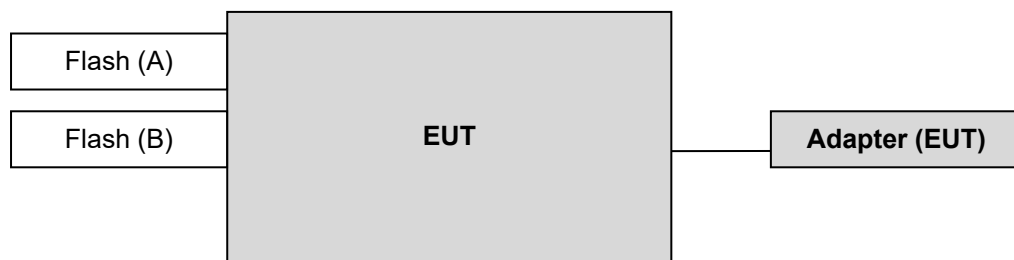


3.4 Description of Support Units

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.	Flash	SanDisk	SDDDC3-032G	05	NA	Type-C
B.	Flash	HP	v250W	03	NA	Type-A

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 (dBuV/m)	AV: 54 (dBuV/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(dBuV/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(dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK: 122.2 (dBuV/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
Test Receiver Rohde & Schwarz	ESR3	102579	Jul. 05, 2021	Jul. 04, 2022
Spectrum Analyzer KEYSIGHT	N9020B	MY60110462	Dec. 21, 2021	Dec. 20, 2022
BILOG Antenna SCHWARZBECK	VULB9168	995	Oct. 28, 2021	Oct. 27, 2022
HORN Antenna F SPIN	DRH18-E	210104A18E	Nov. 14, 2021	Nov. 13, 2022
Loop Antenna TESEQ	HLA 6121	45745	Jul. 21, 2021	Jul. 20, 2022
Preamplifier EMCI	EMC330N	980783	Jan. 17, 2022	Jan. 16, 2023
Preamplifier EMCI	EMC184045SE	980787	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC104-SM-SM-(9000+2000+1000)	201230+ 201242+ 210101	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMCCFD400-NM-NM-(9000+300+500)	201252+ 201250+ 201245	Jan. 17, 2022	Jan. 16, 2023
RF signal cable EMCI	EMC101G-KM-KM-(5000+3000+2000)	201261+201258+ 201249	Jan. 17, 2022	Jan. 16, 2023
Software BV CPS	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Turn Table Max-Full	MFT-151SS-0.5T	NA	NA	NA
Turn Table Controller Max-Full	MF-7802BS	MF780208675	NA	NA
Antenna Tower KaiTuo	NA	NA	NA	NA
Antenna Tower Controller KaiTuo	KT-2000	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
PXA Signal Analyzer KEYSIGHT	N9030B	MY57140938	Mar. 09, 2021	Mar. 08, 2022

- 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 WM Chamber 7.

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:

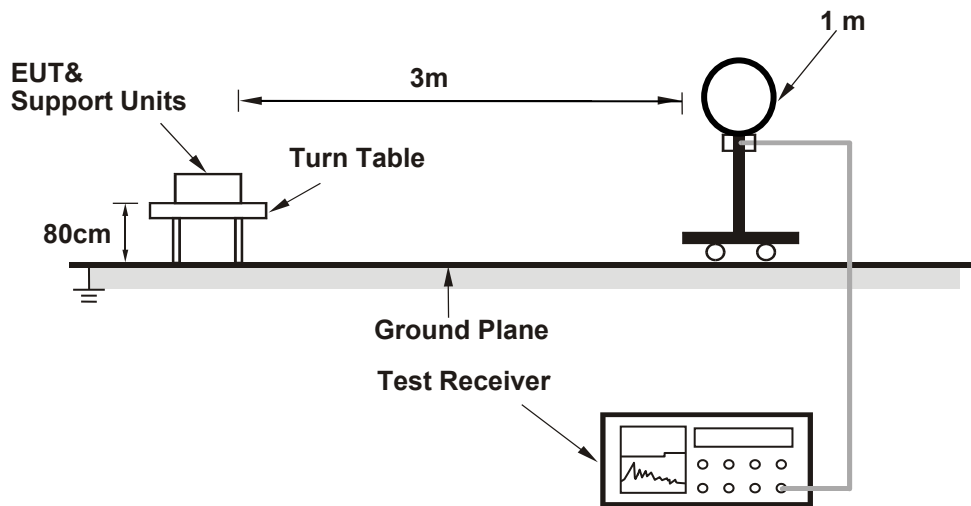
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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 = 1kHz; 802.11ax (HE80): RBW = 1MHz, VBW = 10Hz; 802.11ax (HE160): RBW = 1MHz, VBW = 1kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

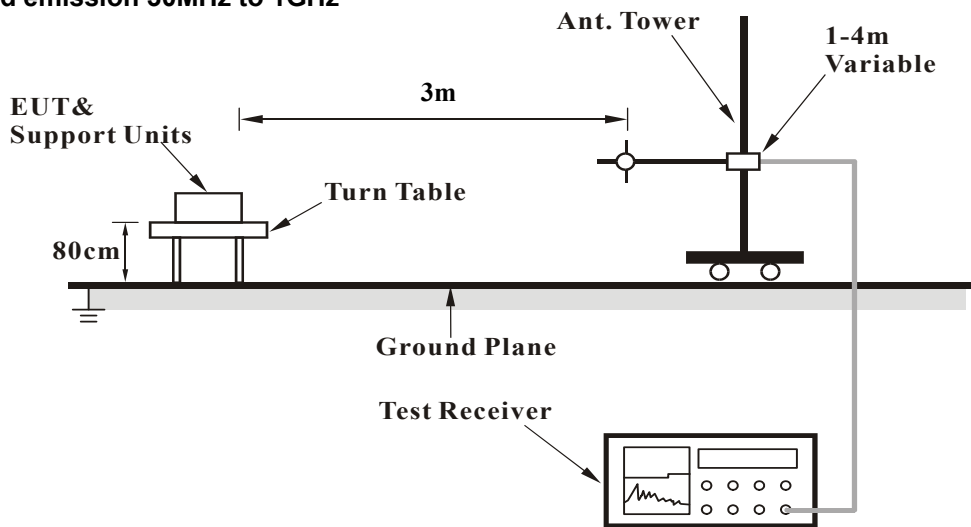
No deviation.

4.1.5 Test Setup

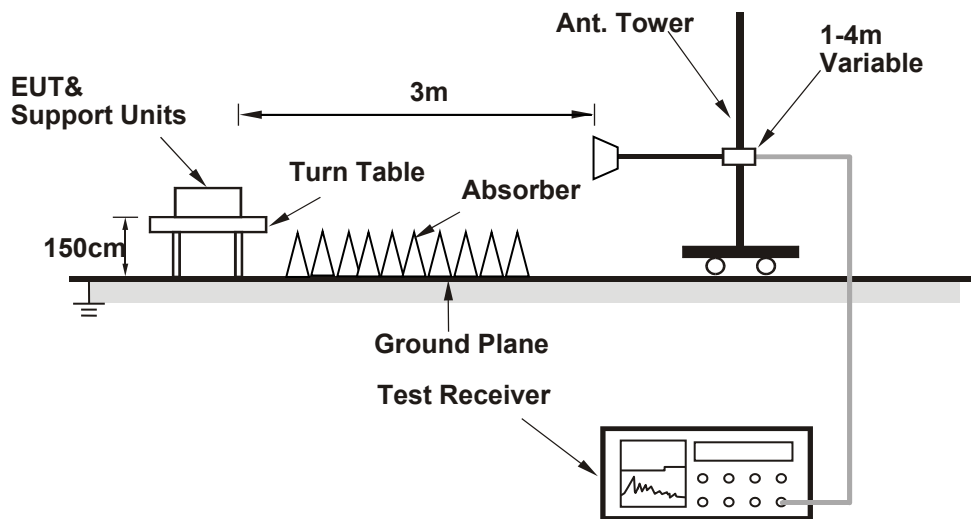
For Radiated emission below 30MHz



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

- 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	56.50 PK	74.00	-17.50	3.79 H	68	54.10	2.40
2	5150.00	44.00 AV	54.00	-10.00	3.79 H	68	41.60	2.40
3	*5180.00	101.48 PK			3.79 H	68	61.20	40.28
4	*5180.00	91.38 AV			3.79 H	68	51.10	40.28
5	#10360.00	55.10 PK	68.20	-13.10	2.29 H	251	46.60	8.50
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	56.60 PK	74.00	-17.40	1.06 V	322	54.20	2.40
2	5150.00	44.20 AV	54.00	-9.80	1.06 V	322	41.80	2.40
3	*5180.00	104.38 PK			1.06 V	322	64.10	40.28
4	*5180.00	94.48 AV			1.06 V	322	54.20	40.28
5	#10360.00	55.40 PK	68.20	-12.80	1.82 V	322	46.90	8.50

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	101.24 PK			3.82 H	70	61.00	40.24
2	*5200.00	91.44 AV			3.82 H	70	51.20	40.24
3	#10400.00	55.05 PK	68.20	-13.15	2.33 H	262	46.60	8.45

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	104.24 PK			1.09 V	328	64.00	40.24
2	*5200.00	94.34 AV			1.09 V	328	54.10	40.24
3	#10400.00	55.45 PK	68.20	-12.75	1.89 V	328	47.00	8.45

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	101.11 PK			3.77 H	66	61.00	40.11
2	*5240.00	91.31 AV			3.77 H	66	51.20	40.11
3	5350.00	56.15 PK	74.00	-17.85	3.77 H	66	54.10	2.05
4	5350.00	43.45 AV	54.00	-10.55	3.77 H	66	41.40	2.05
5	#10480.00	55.19 PK	68.20	-13.01	2.33 H	260	46.70	8.49

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	104.01 PK			1.00 V	323	63.90	40.11
2	*5240.00	94.11 AV			1.00 V	323	54.00	40.11
3	5350.00	56.35 PK	74.00	-17.65	1.00 V	323	54.30	2.05
4	5350.00	43.65 AV	54.00	-10.35	1.00 V	323	41.60	2.05
5	#10480.00	55.39 PK	68.20	-12.81	1.93 V	321	46.90	8.49

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	56.50 PK	74.00	-17.50	3.86 H	64	54.10	2.40
2	5150.00	43.90 AV	54.00	-10.10	3.86 H	64	41.50	2.40
3	*5260.00	101.36 PK			3.86 H	64	61.30	40.06
4	*5260.00	91.26 AV			3.86 H	64	51.20	40.06
5	#10520.00	56.15 PK	68.20	-12.05	2.41 H	272	47.60	8.55

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	57.50 PK	74.00	-16.50	1.08 V	324	55.10	2.40
2	5150.00	44.40 AV	54.00	-9.60	1.08 V	324	42.00	2.40
3	*5260.00	104.56 PK			1.08 V	324	64.50	40.06
4	*5260.00	94.76 AV			1.08 V	324	54.70	40.06
5	#10520.00	55.85 PK	68.20	-12.35	2.03 V	308	47.30	8.55

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	101.60 PK			3.87 H	59	61.60	40.00
2	*5300.00	91.40 AV			3.87 H	59	51.40	40.00
3	10600.00	55.58 PK	74.00	-18.42	2.52 H	278	46.80	8.78
4	10600.00	43.18 AV	54.00	-10.82	2.52 H	278	34.40	8.78

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	104.70 PK			1.04 V	326	64.70	40.00
2	*5300.00	94.80 AV			1.04 V	326	54.80	40.00
3	10600.00	55.78 PK	74.00	-18.22	2.07 V	304	47.00	8.78
4	10600.00	43.38 AV	54.00	-10.62	2.07 V	304	34.60	8.78

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	101.06 PK			3.88 H	69	61.00	40.06
2	*5320.00	91.26 AV			3.88 H	69	51.20	40.06
3	5350.00	56.45 PK	74.00	-17.55	3.88 H	69	54.40	2.05
4	5350.00	43.75 AV	54.00	-10.25	3.88 H	69	41.70	2.05
5	10640.00	55.31 PK	74.00	-18.69	2.33 H	261	46.70	8.61
6	10640.00	43.01 AV	54.00	-10.99	2.33 H	261	34.40	8.61

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	104.16 PK			1.04 V	324	64.10	40.06
2	*5320.00	94.46 AV			1.04 V	324	54.40	40.06
3	5350.00	56.75 PK	74.00	-17.25	1.04 V	324	54.70	2.05
4	5350.00	43.95 AV	54.00	-10.05	1.04 V	324	41.90	2.05
5	10640.00	55.71 PK	74.00	-18.29	2.01 V	295	47.10	8.61
6	10640.00	43.31 AV	54.00	-10.69	2.01 V	295	34.70	8.61

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	56.20 PK	74.00	-17.80	3.92 H	64	54.10	2.10
2	5460.00	43.50 AV	54.00	-10.50	3.92 H	64	41.40	2.10
3	#5470.00	56.93 PK	68.20	-11.27	3.92 H	64	54.80	2.13
4	*5500.00	99.37 PK			3.92 H	64	59.20	40.17
5	*5500.00	89.27 AV			3.92 H	64	49.10	40.17
6	11000.00	55.62 PK	74.00	-18.38	2.40 H	267	46.90	8.72
7	11000.00	43.32 AV	54.00	-10.68	2.40 H	267	34.60	8.72

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	56.40 PK	74.00	-17.60	1.02 V	331	54.30	2.10
2	5460.00	43.70 AV	54.00	-10.30	1.02 V	331	41.60	2.10
3	#5470.00	57.43 PK	68.20	-10.77	1.02 V	331	55.30	2.13
4	*5500.00	103.17 PK			1.02 V	331	63.00	40.17
5	*5500.00	93.57 AV			1.02 V	331	53.40	40.17
6	11000.00	55.82 PK	74.00	-18.18	2.00 V	313	47.10	8.72
7	11000.00	43.52 AV	54.00	-10.48	2.00 V	313	34.80	8.72

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	101.65 PK			3.86 H	68	60.80	40.85
2	*5580.00	91.15 AV			3.86 H	68	50.30	40.85
3	11160.00	55.83 PK	74.00	-18.17	2.45 H	266	47.00	8.83
4	11160.00	43.53 AV	54.00	-10.47	2.45 H	266	34.70	8.83

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	104.05 PK			1.05 V	327	63.20	40.85
2	*5580.00	94.55 AV			1.05 V	327	53.70	40.85
3	11160.00	56.23 PK	74.00	-17.77	2.06 V	308	47.40	8.83
4	11160.00	43.83 AV	54.00	-10.17	2.06 V	308	35.00	8.83

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	100.51 PK			3.90 H	69	59.10	41.41
2	*5700.00	89.91 AV			3.90 H	69	48.50	41.41
3	#5725.00	58.52 PK	68.20	-9.68	3.90 H	69	54.90	3.62
4	11400.00	56.27 PK	74.00	-17.73	2.30 H	242	46.70	9.57
5	11400.00	44.07 AV	54.00	-9.93	2.30 H	242	34.50	9.57

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	103.31 PK			1.09 V	324	61.90	41.41
2	*5700.00	93.51 AV			1.09 V	324	52.10	41.41
3	#5725.00	59.12 PK	68.20	-9.08	1.09 V	324	55.50	3.62
4	11400.00	56.77 PK	74.00	-17.23	1.82 V	319	47.20	9.57
5	11400.00	44.57 AV	54.00	-9.43	1.82 V	319	35.00	9.57

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	56.53 PK	68.20	-11.67	3.93 H	65	54.40	2.13
2	*5720.00	101.22 PK			3.93 H	65	59.70	41.52
3	*5720.00	91.02 AV			3.93 H	65	49.50	41.52
4	#5850.00	57.77 PK	68.20	-10.43	3.93 H	65	54.00	3.77
5	11440.00	56.71 PK	74.00	-17.29	2.33 H	275	47.10	9.61
6	11440.00	44.41 AV	54.00	-9.59	2.33 H	275	34.80	9.61

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	56.83 PK	68.20	-11.37	1.11 V	333	54.70	2.13
2	*5720.00	104.12 PK			1.11 V	333	62.60	41.52
3	*5720.00	94.22 AV			1.11 V	333	52.70	41.52
4	#5850.00	57.87 PK	68.20	-10.33	1.11 V	333	54.10	3.77
5	11440.00	57.01 PK	74.00	-16.99	1.97 V	320	47.40	9.61
6	11440.00	44.71 AV	54.00	-9.29	1.97 V	320	35.10	9.61

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	#5644.00	58.29 PK	68.20	-9.91	3.82 H	71	54.93	3.36
2	*5745.00	101.17 PK			3.82 H	71	59.50	41.67
3	*5745.00	90.77 AV			3.82 H	71	49.10	41.67
4	#5990.40	58.65 PK	68.20	-9.55	3.82 H	71	54.57	4.08
5	11490.00	57.47 PK	74.00	-16.53	2.37 H	287	47.80	9.67
6	11490.00	44.17 AV	54.00	-9.83	2.37 H	287	34.50	9.67

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	#5626.40	58.53 PK	68.20	-9.67	1.14 V	333	55.27	3.26
2	*5745.00	104.47 PK			1.14 V	333	62.80	41.67
3	*5745.00	94.17 AV			1.14 V	333	52.50	41.67
4	#5990.40	59.08 PK	68.20	-9.12	1.14 V	333	55.00	4.08
5	11490.00	57.77 PK	74.00	-16.23	1.99 V	302	48.10	9.67
6	11490.00	44.37 AV	54.00	-9.63	1.99 V	302	34.70	9.67

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	#5618.80	59.07 PK	68.20	-9.13	3.79 H	70	55.85	3.22
2	*5785.00	101.40 PK			3.79 H	70	59.60	41.80
3	*5785.00	91.20 AV			3.79 H	70	49.40	41.80
4	#5940.40	58.86 PK	68.20	-9.34	3.79 H	70	55.07	3.79
5	11570.00	57.60 PK	74.00	-16.40	2.42 H	290	48.00	9.60
6	11570.00	44.10 AV	54.00	-9.90	2.42 H	290	34.50	9.60

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	#5645.20	58.51 PK	68.20	-9.69	1.15 V	333	55.14	3.37
2	*5785.00	104.70 PK			1.15 V	333	62.90	41.80
3	*5785.00	94.40 AV			1.15 V	333	52.60	41.80
4	#5959.20	58.83 PK	68.20	-9.37	1.15 V	333	54.96	3.87
5	11570.00	57.90 PK	74.00	-16.10	2.03 V	312	48.30	9.60
6	11570.00	44.40 AV	54.00	-9.60	2.03 V	312	34.80	9.60

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	#5624.40	59.27 PK	68.20	-8.93	3.90 H	69	56.02	3.25
2	*5825.00	101.08 PK			3.90 H	69	59.30	41.78
3	*5825.00	90.88 AV			3.90 H	69	49.10	41.78
4	#5970.00	59.70 PK	68.20	-8.50	3.90 H	69	55.76	3.94
5	11650.00	57.45 PK	74.00	-16.55	2.33 H	290	47.90	9.55
6	11650.00	43.95 AV	54.00	-10.05	2.33 H	290	34.40	9.55

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	59.07 PK	68.20	-9.13	1.32 V	338	55.81	3.26
2	*5825.00	104.48 PK			1.32 V	338	62.70	41.78
3	*5825.00	94.18 AV			1.32 V	338	52.40	41.78
4	#5943.60	59.38 PK	68.20	-8.82	1.32 V	338	55.59	3.79
5	11650.00	57.65 PK	74.00	-16.35	2.05 V	308	48.10	9.55
6	11650.00	44.15 AV	54.00	-9.85	2.05 V	308	34.60	9.55

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.

Full RU

RF Mode	TX 802.11ax (HE20)	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	57.80 PK	74.00	-16.20	3.76 H	63	55.40	2.40
2	5150.00	43.80 AV	54.00	-10.20	3.76 H	63	41.40	2.40
3	*5180.00	104.48 PK			3.76 H	63	64.20	40.28
4	*5180.00	92.38 AV			3.76 H	63	52.10	40.28
5	#10360.00	55.30 PK	68.20	-12.90	2.45 H	269	46.80	8.50

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	58.20 PK	74.00	-15.80	1.01 V	325	55.80	2.40
2	5150.00	44.00 AV	54.00	-10.00	1.01 V	325	41.60	2.40
3	*5180.00	108.18 PK			1.01 V	325	67.90	40.28
4	*5180.00	95.98 AV			1.01 V	325	55.70	40.28
5	#10360.00	55.60 PK	68.20	-12.60	2.02 V	302	47.10	8.50

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	104.84 PK			2.80 H	65	64.60	40.24
2	*5200.00	92.64 AV			2.80 H	65	52.40	40.24
3	#10400.00	55.65 PK	68.20	-12.55	2.52 H	275	47.20	8.45

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	108.54 PK			1.08 V	321	68.30	40.24
2	*5200.00	96.24 AV			1.08 V	321	56.00	40.24
3	#10400.00	55.95 PK	68.20	-12.25	1.99 V	298	47.50	8.45

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	104.31 PK			3.79 H	64	64.20	40.11
2	*5240.00	92.11 AV			3.79 H	64	52.00	40.11
3	5350.00	56.25 PK	74.00	-17.75	3.79 H	64	54.20	2.05
4	5350.00	43.15 AV	54.00	-10.85	3.79 H	64	41.10	2.05
5	#10480.00	55.19 PK	68.20	-13.01	2.51 H	272	46.70	8.49

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	107.91 PK			1.15 V	324	67.80	40.11
2	*5240.00	95.71 AV			1.15 V	324	55.60	40.11
3	5350.00	56.75 PK	74.00	-17.25	1.15 V	324	54.70	2.05
4	5350.00	43.35 AV	54.00	-10.65	1.15 V	324	41.30	2.05
5	#10480.00	55.49 PK	68.20	-12.71	2.07 V	308	47.00	8.49

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.70 PK	74.00	-17.30	3.89 H	66	54.30	2.40
2	5150.00	43.80 AV	54.00	-10.20	3.89 H	66	41.40	2.40
3	*5260.00	103.56 PK			3.89 H	66	63.50	40.06
4	*5260.00	92.46 AV			3.89 H	66	52.40	40.06
5	#10520.00	55.35 PK	68.20	-12.85	2.34 H	262	46.80	8.55

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	56.90 PK	74.00	-17.10	1.15 V	323	54.50	2.40
2	5150.00	44.00 AV	54.00	-10.00	1.15 V	323	41.60	2.40
3	*5260.00	107.46 PK			1.15 V	323	67.40	40.06
4	*5260.00	95.86 AV			1.15 V	323	55.80	40.06
5	#10520.00	55.45 PK	68.20	-12.75	1.93 V	322	46.90	8.55

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	103.70 PK			3.92 H	64	63.70	40.00
2	*5300.00	92.80 AV			3.92 H	64	52.80	40.00
3	10600.00	55.58 PK	74.00	-18.42	2.39 H	265	46.80	8.78
4	10600.00	43.28 AV	54.00	-10.72	2.39 H	265	34.50	8.78

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	107.70 PK			1.08 V	326	67.70	40.00
2	*5300.00	96.00 AV			1.08 V	326	56.00	40.00
3	10600.00	55.98 PK	74.00	-18.02	2.01 V	311	47.20	8.78
4	10600.00	43.48 AV	54.00	-10.52	2.01 V	311	34.70	8.78

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.16 PK			3.92 H	61	63.10	40.06
2	*5320.00	91.96 AV			3.92 H	61	51.90	40.06
3	5350.00	57.05 PK	74.00	-16.95	3.92 H	61	55.00	2.05
4	5350.00	43.55 AV	54.00	-10.45	3.92 H	61	41.50	2.05
5	10640.00	55.41 PK	74.00	-18.59	2.41 H	259	46.80	8.61
6	10640.00	43.11 AV	54.00	-10.89	2.41 H	259	34.50	8.61

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	107.16 PK			1.10 V	323	67.10	40.06
2	*5320.00	95.36 AV			1.10 V	323	55.30	40.06
3	5350.00	62.05 PK	74.00	-11.95	1.10 V	323	60.00	2.05
4	5350.00	43.75 AV	54.00	-10.25	1.10 V	323	41.70	2.05
5	10640.00	55.61 PK	74.00	-18.39	2.03 V	302	47.00	8.61
6	10640.00	43.41 AV	54.00	-10.59	2.03 V	302	34.80	8.61

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.20 PK	74.00	-17.80	3.88 H	68	54.10	2.10
2	5460.00	43.60 AV	54.00	-10.40	3.88 H	68	41.50	2.10
3	#5470.00	57.13 PK	68.20	-11.07	3.88 H	68	55.00	2.13
4	*5500.00	103.57 PK			3.88 H	68	63.40	40.17
5	*5500.00	90.97 AV			3.88 H	68	50.80	40.17
6	11000.00	55.12 PK	74.00	-18.88	2.39 H	265	46.40	8.72
7	11000.00	43.12 AV	54.00	-10.88	2.39 H	265	34.40	8.72

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	56.60 PK	74.00	-17.40	1.06 V	326	54.50	2.10
2	5460.00	43.80 AV	54.00	-10.20	1.06 V	326	41.70	2.10
3	#5470.00	57.63 PK	68.20	-10.57	1.06 V	326	55.50	2.13
4	*5500.00	106.37 PK			1.06 V	326	66.20	40.17
5	*5500.00	94.27 AV			1.06 V	326	54.10	40.17
6	11000.00	55.62 PK	74.00	-18.38	2.06 V	301	46.90	8.72
7	11000.00	43.32 AV	54.00	-10.68	2.06 V	301	34.60	8.72

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	104.35 PK			3.81 H	59	63.50	40.85
2	*5580.00	92.05 AV			3.81 H	59	51.20	40.85
3	11160.00	55.73 PK	74.00	-18.27	2.41 H	269	46.90	8.83
4	11160.00	43.33 AV	54.00	-10.67	2.41 H	269	34.50	8.83

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	107.35 PK			1.00 V	325	66.50	40.85
2	*5580.00	95.15 AV			1.00 V	325	54.30	40.85
3	11160.00	55.93 PK	74.00	-18.07	2.09 V	315	47.10	8.83
4	11160.00	43.63 AV	54.00	-10.37	2.09 V	315	34.80	8.83

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	104.61 PK			3.90 H	73	63.20	41.41
2	*5700.00	91.91 AV			3.90 H	73	50.50	41.41
3	#5725.00	60.32 PK	68.20	-7.88	3.90 H	73	56.70	3.62
4	11400.00	56.17 PK	74.00	-17.83	2.46 H	270	46.60	9.57
5	11400.00	44.07 AV	54.00	-9.93	2.46 H	270	34.50	9.57

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	107.51 PK			1.01 V	331	66.10	41.41
2	*5700.00	95.01 AV			1.01 V	331	53.60	41.41
3	#5725.00	64.62 PK	68.20	-3.58	1.01 V	331	61.00	3.62
4	11400.00	56.67 PK	74.00	-17.33	1.99 V	305	47.10	9.57
5	11400.00	44.47 AV	54.00	-9.53	1.99 V	305	34.90	9.57

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.63 PK	68.20	-11.57	3.93 H	70	54.50	2.13
2	*5720.00	104.62 PK			3.93 H	70	63.10	41.52
3	*5720.00	92.22 AV			3.93 H	70	50.70	41.52
4	#5850.00	57.87 PK	68.20	-10.33	3.93 H	70	54.10	3.77
5	11440.00	56.61 PK	74.00	-17.39	2.23 H	286	47.00	9.61
6	11440.00	44.41 AV	54.00	-9.59	2.23 H	286	34.80	9.61

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.03 PK	68.20	-11.17	1.01 V	334	54.90	2.13
2	*5720.00	107.52 PK			1.01 V	334	66.00	41.52
3	*5720.00	95.52 AV			1.01 V	334	54.00	41.52
4	#5850.00	58.27 PK	68.20	-9.93	1.01 V	334	54.50	3.77
5	11440.00	57.01 PK	74.00	-16.99	2.09 V	312	47.40	9.61
6	11440.00	44.71 AV	54.00	-9.29	2.09 V	312	35.10	9.61

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	#5603.60	58.77 PK	68.20	-9.43	3.82 H	69	55.63	3.14
2	*5745.00	103.37 PK			3.82 H	69	61.70	41.67
3	*5745.00	90.67 AV			3.82 H	69	49.00	41.67
4	#5938.80	59.24 PK	68.20	-8.96	3.82 H	69	55.46	3.78
5	11490.00	56.27 PK	74.00	-17.73	2.29 H	282	46.60	9.67
6	11490.00	43.47 AV	54.00	-10.53	2.29 H	282	33.80	9.67

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	#5630.80	58.32 PK	68.20	-9.88	1.18 V	337	55.03	3.29
2	*5745.00	107.07 PK			1.18 V	337	65.40	41.67
3	*5745.00	94.87 AV			1.18 V	337	53.20	41.67
4	#5983.60	59.47 PK	68.20	-8.73	1.18 V	337	55.44	4.03
5	11490.00	56.67 PK	74.00	-17.33	2.11 V	309	47.00	9.67
6	11490.00	43.87 AV	54.00	-10.13	2.11 V	309	34.20	9.67

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	#5641.60	58.71 PK	68.20	-9.49	3.77 H	65	55.36	3.35
2	*5785.00	103.60 PK			3.77 H	65	61.80	41.80
3	*5785.00	90.80 AV			3.77 H	65	49.00	41.80
4	#5935.20	59.05 PK	68.20	-9.15	3.77 H	65	55.29	3.76
5	11570.00	56.40 PK	74.00	-17.60	2.31 H	292	46.80	9.60
6	11570.00	43.60 AV	54.00	-10.40	2.31 H	292	34.00	9.60

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	#5644.40	60.03 PK	68.20	-8.17	1.04 V	338	56.67	3.36
2	*5785.00	107.30 PK			1.04 V	338	65.50	41.80
3	*5785.00	95.10 AV			1.04 V	338	53.30	41.80
4	#5973.60	59.32 PK	68.20	-8.88	1.04 V	338	55.36	3.96
5	11570.00	56.70 PK	74.00	-17.30	2.08 V	312	47.10	9.60
6	11570.00	43.90 AV	54.00	-10.10	2.08 V	312	34.30	9.60

Remarks:

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

RF Mode	TX 802.11ax (HE20)	Channel	CH 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	#5650.00	58.67 PK	68.20	-9.53	3.88 H	69	55.28	3.39
2	*5825.00	103.28 PK			3.88 H	69	61.50	41.78
3	*5825.00	90.58 AV			3.88 H	69	48.80	41.78
4	#5992.80	59.32 PK	68.20	-8.88	3.88 H	69	55.22	4.10
5	11650.00	56.05 PK	74.00	-17.95	2.28 H	287	46.50	9.55
6	11650.00	43.55 AV	54.00	-10.45	2.28 H	287	34.00	9.55

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	#5637.60	59.27 PK	68.20	-8.93	1.08 V	336	55.94	3.33
2	*5825.00	106.98 PK			1.08 V	336	65.20	41.78
3	*5825.00	94.78 AV			1.08 V	336	53.00	41.78
4	#5968.00	60.26 PK	68.20	-7.94	1.08 V	336	56.33	3.93
5	11650.00	56.45 PK	74.00	-17.55	1.98 V	298	46.90	9.55
6	11650.00	43.75 AV	54.00	-10.25	1.98 V	298	34.20	9.55

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	57.30 PK	74.00	-16.70	3.95 H	65	54.90	2.40
2	5150.00	44.10 AV	54.00	-9.90	3.95 H	65	41.70	2.40
3	*5190.00	102.36 PK			3.95 H	64	62.10	40.26
4	*5190.00	89.46 AV			3.95 H	64	49.20	40.26
5	#10380.00	55.08 PK	68.20	-13.12	2.55 H	273	46.60	8.48

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	57.40 PK	74.00	-16.60	1.11 V	325	55.00	2.40
2	5150.00	44.40 AV	54.00	-9.60	1.11 V	325	42.00	2.40
3	*5190.00	105.36 PK			1.11 V	325	65.10	40.26
4	*5190.00	92.66 AV			1.11 V	325	52.40	40.26
5	#10380.00	55.38 PK	68.20	-12.82	2.11 V	312	46.90	8.48

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	101.25 PK			3.92 H	62	61.10	40.15
2	*5230.00	89.05 AV			3.92 H	62	48.90	40.15
3	5350.00	56.85 PK	74.00	-17.15	3.92 H	62	54.80	2.05
4	5350.00	43.65 AV	54.00	-10.35	3.92 H	62	41.60	2.05
5	#10460.00	55.08 PK	68.20	-13.12	2.55 H	270	46.60	8.48

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	104.65 PK			1.00 V	325	64.50	40.15
2	*5230.00	92.15 AV			1.00 V	325	52.00	40.15
3	5350.00	57.05 PK	74.00	-16.95	1.00 V	325	55.00	2.05
4	5350.00	43.85 AV	54.00	-10.15	1.00 V	325	41.80	2.05
5	#10460.00	55.68 PK	68.20	-12.52	2.12 V	302	47.20	8.48

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.00 PK	74.00	-17.00	3.85 H	67	54.60	2.40
2	5150.00	43.90 AV	54.00	-10.10	3.85 H	67	41.50	2.40
3	*5270.00	102.14 PK			3.85 H	67	62.10	40.04
4	*5270.00	88.84 AV			3.85 H	67	48.80	40.04
5	#10540.00	55.11 PK	68.20	-13.09	2.41 H	259	46.50	8.61

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	57.10 PK	74.00	-16.90	1.01 V	323	54.70	2.40
2	5150.00	44.10 AV	54.00	-9.90	1.01 V	323	41.70	2.40
3	*5270.00	105.24 PK			1.01 V	323	65.20	40.04
4	*5270.00	92.34 AV			1.01 V	323	52.30	40.04
5	#10540.00	55.41 PK	68.20	-12.79	2.01 V	308	46.80	8.61

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	102.93 PK			3.99 H	62	62.90	40.03
2	*5310.00	89.43 AV			3.99 H	62	49.40	40.03
3	5350.00	56.25 PK	74.00	-17.75	3.99 H	62	54.20	2.05
4	5350.00	43.65 AV	54.00	-10.35	3.99 H	62	41.60	2.05
5	10620.00	55.50 PK	74.00	-18.50	2.30 H	360	46.80	8.70
6	10620.00	43.10 AV	54.00	-10.90	2.30 H	360	34.40	8.70

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	106.13 PK			1.00 V	324	66.10	40.03
2	*5310.00	92.43 AV			1.00 V	324	52.40	40.03
3	5350.00	56.65 PK	74.00	-17.35	1.00 V	324	54.60	2.05
4	5350.00	43.95 AV	54.00	-10.05	1.00 V	324	41.90	2.05
5	10620.00	55.60 PK	74.00	-18.40	2.06 V	295	46.90	8.70
6	10620.00	43.30 AV	54.00	-10.70	2.06 V	295	34.60	8.70

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	56.60 PK	74.00	-17.40	3.86 H	241	54.50	2.10
2	5460.00	43.70 AV	54.00	-10.30	3.86 H	241	41.60	2.10
3	#5470.00	57.53 PK	68.20	-10.67	3.86 H	241	55.40	2.13
4	*5510.00	100.15 PK			3.86 H	241	59.90	40.25
5	*5510.00	87.65 AV			3.86 H	241	47.40	40.25
6	11020.00	55.27 PK	74.00	-18.73	2.44 H	268	46.50	8.77
7	11020.00	43.17 AV	54.00	-10.83	2.44 H	268	34.40	8.77

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	56.90 PK	74.00	-17.10	1.00 V	321	54.80	2.10
2	5460.00	44.00 AV	54.00	-10.00	1.00 V	321	41.90	2.10
3	#5470.00	57.83 PK	68.20	-10.37	1.00 V	321	55.70	2.13
4	*5510.00	104.35 PK			1.00 V	321	64.10	40.25
5	*5510.00	91.45 AV			1.00 V	321	51.20	40.25
6	11020.00	55.67 PK	74.00	-18.33	2.11 V	316	46.90	8.77
7	11020.00	43.47 AV	54.00	-10.53	2.11 V	316	34.70	8.77

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	100.70 PK			3.96 H	244	60.10	40.60
2	*5550.00	88.10 AV			3.96 H	244	47.50	40.60
3	11100.00	55.39 PK	74.00	-18.61	2.39 H	271	46.40	8.99
4	11100.00	43.59 AV	54.00	-10.41	2.39 H	271	34.60	8.99

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	105.00 PK			1.09 V	325	64.40	40.60
2	*5550.00	92.00 AV			1.09 V	325	51.40	40.60
3	11100.00	55.79 PK	74.00	-18.21	2.06 V	307	46.80	8.99
4	11100.00	43.69 AV	54.00	-10.31	2.06 V	307	34.70	8.99

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	99.85 PK			3.97 H	70	58.50	41.35
2	*5670.00	87.05 AV			3.97 H	70	45.70	41.35
3	#5725.00	58.52 PK	68.20	-9.68	3.97 H	68	54.90	3.62
4	11340.00	56.03 PK	74.00	-17.97	2.46 H	271	46.50	9.53
5	11340.00	44.03 AV	54.00	-9.97	2.46 H	271	34.50	9.53

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	105.15 PK			1.11 V	332	63.80	41.35
2	*5670.00	91.95 AV			1.11 V	332	50.60	41.35
3	#5725.00	59.22 PK	68.20	-8.98	1.11 V	332	55.60	3.62
4	11340.00	56.43 PK	74.00	-17.57	2.09 V	311	46.90	9.53
5	11340.00	44.33 AV	54.00	-9.67	2.09 V	311	34.80	9.53

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	56.53 PK	68.20	-11.67	3.93 H	64	54.40	2.13
2	*5710.00	102.57 PK			3.93 H	64	61.10	41.47
3	*5710.00	88.97 AV			3.93 H	64	47.50	41.47
4	#5850.00	57.77 PK	68.20	-10.43	3.93 H	64	54.00	3.77
5	11420.00	56.59 PK	74.00	-17.41	2.34 H	289	47.00	9.59
6	11420.00	44.29 AV	54.00	-9.71	2.34 H	289	34.70	9.59

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	56.83 PK	68.20	-11.37	1.06 V	335	54.70	2.13
2	*5710.00	105.87 PK			1.06 V	335	64.40	41.47
3	*5710.00	92.27 AV			1.06 V	335	50.80	41.47
4	#5850.00	58.07 PK	68.20	-10.13	1.06 V	335	54.30	3.77
5	11420.00	56.79 PK	74.00	-17.21	2.11 V	309	47.20	9.59
6	11420.00	44.59 AV	54.00	-9.41	2.11 V	309	35.00	9.59

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	#5607.20	59.38 PK	68.20	-8.82	3.79 H	60	56.22	3.16
2	*5755.00	102.22 PK			3.79 H	60	60.50	41.72
3	*5755.00	88.12 AV			3.79 H	60	46.40	41.72
4	#5981.60	58.70 PK	68.20	-9.50	3.79 H	60	54.69	4.01
5	11510.00	56.47 PK	74.00	-17.53	2.29 H	294	46.80	9.67
6	11510.00	43.77 AV	54.00	-10.23	2.29 H	294	34.10	9.67

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	#5633.20	59.60 PK	68.20	-8.60	1.17 V	336	56.30	3.30
2	*5755.00	105.92 PK			1.17 V	336	64.20	41.72
3	*5755.00	92.52 AV			1.17 V	336	50.80	41.72
4	#5996.80	59.74 PK	68.20	-8.46	1.17 V	336	55.62	4.12
5	11510.00	56.77 PK	74.00	-17.23	2.08 V	305	47.10	9.67
6	11510.00	44.07 AV	54.00	-9.93	2.08 V	305	34.40	9.67

Remarks:

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

RF Mode	TX 802.11ax (HE40)	Channel	CH 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	#5634.40	58.96 PK	68.20	-9.24	3.69 H	62	55.65	3.31
2	*5795.00	102.12 PK			3.69 H	62	60.30	41.82
3	*5795.00	87.92 AV			3.69 H	62	46.10	41.82
4	#5996.00	59.82 PK	68.20	-8.38	3.69 H	62	55.71	4.11
5	11590.00	56.58 PK	74.00	-17.42	2.29 H	288	47.00	9.58
6	11590.00	43.68 AV	54.00	-10.32	2.29 H	288	34.10	9.58

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	#5638.00	59.04 PK	68.20	-9.16	1.19 V	335	55.71	3.33
2	*5795.00	105.82 PK			1.19 V	335	64.00	41.82
3	*5795.00	92.32 AV			1.19 V	335	50.50	41.82
4	#5969.20	59.75 PK	68.20	-8.45	1.19 V	335	55.82	3.93
5	11590.00	56.88 PK	74.00	-17.12	2.12 V	314	47.30	9.58
6	11590.00	44.08 AV	54.00	-9.92	2.12 V	314	34.50	9.58

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	56.90 PK	74.00	-17.10	3.98 H	62	54.50	2.40
2	5150.00	44.30 AV	54.00	-9.70	3.98 H	62	41.90	2.40
3	*5210.00	98.71 PK			3.98 H	62	58.50	40.21
4	*5210.00	85.71 AV			3.98 H	62	45.50	40.21
5	#10420.00	55.16 PK	68.20	-13.04	2.43 H	261	46.70	8.46

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	57.10 PK	74.00	-16.90	1.09 V	325	54.70	2.40
2	5150.00	44.40 AV	54.00	-9.60	1.09 V	325	42.00	2.40
3	*5210.00	102.11 PK			1.09 V	325	61.90	40.21
4	*5210.00	89.11 AV			1.09 V	325	48.90	40.21
5	#10420.00	55.66 PK	68.20	-12.54	1.99 V	299	47.20	8.46

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.60 PK	74.00	-17.40	3.96 H	66	54.20	2.40
2	5150.00	43.90 AV	54.00	-10.10	3.96 H	66	41.50	2.40
3	*5290.00	98.82 PK			3.96 H	66	58.80	40.02
4	*5290.00	86.52 AV			3.96 H	66	46.50	40.02
5	#10580.00	55.33 PK	68.20	-12.87	2.29 H	258	46.60	8.73

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	57.20 PK	74.00	-16.80	1.10 V	323	54.80	2.40
2	5150.00	44.40 AV	54.00	-9.60	1.10 V	323	42.00	2.40
3	*5290.00	102.32 PK			1.10 V	323	62.30	40.02
4	*5290.00	89.82 AV			1.10 V	323	49.80	40.02
5	#10580.00	55.63 PK	68.20	-12.57	2.12 V	317	46.90	8.73

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.20 PK	74.00	-16.80	3.99 H	305	55.10	2.10
2	5460.00	43.80 AV	54.00	-10.20	3.99 H	305	41.70	2.10
3	#5470.00	57.43 PK	68.20	-10.77	3.99 H	305	55.30	2.13
4	*5530.00	98.42 PK			3.99 H	305	58.00	40.42
5	*5530.00	84.62 AV			3.99 H	305	44.20	40.42
6	11060.00	56.88 PK	74.00	-17.12	2.39 H	292	48.00	8.88
7	11060.00	43.08 AV	54.00	-10.92	2.39 H	292	34.20	8.88

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.50 PK	74.00	-15.50	1.12 V	320	56.40	2.10
2	5460.00	44.70 AV	54.00	-9.30	1.12 V	320	42.60	2.10
3	#5470.00	58.83 PK	68.20	-9.37	1.12 V	320	56.70	2.13
4	*5530.00	102.12 PK			1.12 V	320	61.70	40.42
5	*5530.00	89.12 AV			1.12 V	320	48.70	40.42
6	11060.00	57.18 PK	74.00	-16.82	2.13 V	298	48.30	8.88
7	11060.00	43.38 AV	54.00	-10.62	2.13 V	298	34.50	8.88

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	99.08 PK			3.93 H	301	58.00	41.08
2	*5610.00	85.18 AV			3.93 H	301	44.10	41.08
3	#5725.00	58.02 PK	68.20	-10.18	3.93 H	301	54.40	3.62
4	11220.00	56.76 PK	74.00	-17.24	2.29 H	291	47.90	8.86
5	11220.00	43.06 AV	54.00	-10.94	2.29 H	291	34.20	8.86

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	*5610.00	102.88 PK			1.02 V	330	61.80	41.08
2	*5610.00	89.58 AV			1.02 V	330	48.50	41.08
3	#5725.00	58.32 PK	68.20	-9.88	1.02 V	330	54.70	3.62
4	11220.00	57.06 PK	74.00	-16.94	2.09 V	301	48.20	8.86
5	11220.00	43.46 AV	54.00	-10.54	2.09 V	301	34.60	8.86

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.23 PK	68.20	-10.97	3.97 H	298	55.10	2.13
2	*5690.00	99.28 PK			3.97 H	298	57.90	41.38
3	*5690.00	85.48 AV			3.97 H	298	44.10	41.38
4	#5850.00	58.77 PK	68.20	-9.43	3.97 H	298	55.00	3.77
5	11380.00	57.65 PK	74.00	-16.35	2.13 H	295	48.10	9.55
6	11380.00	44.05 AV	54.00	-9.95	2.13 H	295	34.50	9.55

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	57.43 PK	68.20	-10.77	1.14 V	333	55.30	2.13
2	*5690.00	102.98 PK			1.14 V	333	61.60	41.38
3	*5690.00	89.78 AV			1.14 V	333	48.40	41.38
4	#5850.00	58.97 PK	68.20	-9.23	1.14 V	333	55.20	3.77
5	11380.00	57.95 PK	74.00	-16.05	2.17 V	315	48.40	9.55
6	11380.00	44.35 AV	54.00	-9.65	2.17 V	315	34.80	9.55

Remarks:

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

RF Mode	TX 802.11ax (HE80)	Channel	CH 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	#5647.60	59.16 PK	68.20	-9.04	3.85 H	67	55.78	3.38
2	*5775.00	98.77 PK			3.85 H	67	57.00	41.77
3	*5775.00	85.37 AV			3.85 H	67	43.60	41.77
4	#5958.80	59.85 PK	68.20	-8.35	3.85 H	67	55.98	3.87
5	11550.00	57.22 PK	74.00	-16.78	2.26 H	298	47.60	9.62
6	11550.00	43.92 AV	54.00	-10.08	2.26 H	298	34.30	9.62

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	#5613.20	59.88 PK	68.20	-8.32	1.11 V	335	56.68	3.20
2	*5775.00	102.57 PK			1.11 V	335	60.80	41.77
3	*5775.00	89.67 AV			1.11 V	335	47.90	41.77
4	#5997.20	59.91 PK	68.20	-8.29	1.11 V	335	55.79	4.12
5	11550.00	57.62 PK	74.00	-16.38	2.19 V	312	48.00	9.62
6	11550.00	44.32 AV	54.00	-9.68	2.19 V	312	34.70	9.62

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	56.40 PK	74.00	-17.60	3.99 H	298	54.00	2.40
2	5150.00	43.80 AV	54.00	-10.20	3.99 H	298	41.40	2.40
3	*5250.00	95.98 PK			3.99 H	298	55.90	40.08
4	*5250.00	83.58 AV			3.99 H	298	43.50	40.08
5	#10500.00	56.00 PK	68.20	-12.20	2.22 H	297	47.50	8.50

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	57.10 PK	74.00	-16.90	1.06 V	326	54.70	2.40
2	5150.00	44.20 AV	54.00	-9.80	1.06 V	326	41.80	2.40
3	*5250.00	100.38 PK			1.06 V	326	60.30	40.08
4	*5250.00	87.18 AV			1.06 V	326	47.10	40.08
5	#10500.00	56.40 PK	68.20	-11.80	1.98 V	284	47.90	8.50

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	*5570.00	96.87 PK			3.96 H	295	56.10	40.77
2	*5570.00	84.37 AV			3.96 H	295	43.60	40.77
3	#5725.00	58.92 PK	68.20	-9.28	3.96 H	295	55.30	3.62
4	11140.00	56.27 PK	74.00	-17.73	2.26 H	288	47.40	8.87
5	11140.00	43.07 AV	54.00	-10.93	2.26 H	288	34.20	8.87

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	*5570.00	101.27 PK			1.06 V	326	60.50	40.77
2	*5570.00	87.97 AV			1.06 V	326	47.20	40.77
3	#5725.00	59.72 PK	68.20	-8.48	1.00 V	326	56.10	3.62
4	11140.00	56.67 PK	74.00	-17.33	2.02 V	303	47.80	8.87
5	11140.00	43.37 AV	54.00	-10.63	2.02 V	303	34.50	8.87

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.

Partial RU

RF Mode	TX 802.11ax (HE20) (RU26)	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	57.30 PK	74.00	-16.70	3.96 H	275	54.90	2.40
2	5150.00	44.10 AV	54.00	-9.90	3.96 H	275	41.70	2.40
3	*5180.00	110.88 PK			3.96 H	275	70.60	40.28
4	*5180.00	100.88 AV			3.96 H	275	60.60	40.28
5	#10360.00	54.60 PK	68.20	-13.60	2.11 H	255	46.10	8.50

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	58.60 PK	74.00	-15.40	1.00 V	321	56.20	2.40
2	5150.00	44.30 AV	54.00	-9.70	1.00 V	321	41.90	2.40
3	*5180.00	114.18 PK			1.00 V	321	73.90	40.28
4	*5180.00	103.68 AV			1.00 V	321	63.40	40.28
5	#10360.00	55.10 PK	68.20	-13.10	1.76 V	185	46.60	8.50

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU26)	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	110.76 PK			3.87 H	269	70.70	40.06
2	*5320.00	100.96 AV			3.87 H	269	60.90	40.06
3	5350.00	57.55 PK	74.00	-16.45	3.87 H	269	55.50	2.05
4	5350.00	43.55 AV	54.00	-10.45	3.87 H	269	41.50	2.05
5	10640.00	56.51 PK	74.00	-17.49	2.05 H	262	47.90	8.61
6	10640.00	42.71 AV	54.00	-11.29	2.05 H	262	34.10	8.61

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	114.06 PK			1.01 V	327	74.00	40.06
2	*5320.00	103.86 AV			1.01 V	327	63.80	40.06
3	5350.00	62.95 PK	74.00	-11.05	1.01 V	327	60.90	2.05
4	5350.00	43.75 AV	54.00	-10.25	1.01 V	327	41.70	2.05
5	10640.00	56.81 PK	74.00	-17.19	1.93 V	182	48.20	8.61
6	10640.00	43.01 AV	54.00	-10.99	1.93 V	182	34.40	8.61

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU26)	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	56.30 PK	74.00	-17.70	3.89 H	278	54.20	2.10
2	5460.00	43.50 AV	54.00	-10.50	3.89 H	278	41.40	2.10
3	#5470.00	58.23 PK	68.20	-9.97	3.89 H	278	56.10	2.13
4	*5500.00	110.27 PK			3.89 H	278	70.10	40.17
5	*5500.00	100.47 AV			3.89 H	278	60.30	40.17
6	11000.00	56.62 PK	74.00	-17.38	2.16 H	252	47.90	8.72
7	11000.00	42.92 AV	54.00	-11.08	2.16 H	252	34.20	8.72

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	56.80 PK	74.00	-17.20	1.01 V	328	54.70	2.10
2	5460.00	43.80 AV	54.00	-10.20	1.01 V	328	41.70	2.10
3	#5470.00	59.73 PK	68.20	-8.47	1.01 V	328	57.60	2.13
4	*5500.00	113.57 PK			1.01 V	328	73.40	40.17
5	*5500.00	103.27 AV			1.01 V	328	63.10	40.17
6	11000.00	57.02 PK	74.00	-16.98	1.90 V	189	48.30	8.72
7	11000.00	43.22 AV	54.00	-10.78	1.90 V	189	34.50	8.72

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU26)	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	111.01 PK			3.92 H	263	69.60	41.41
2	*5700.00	100.71 AV			3.92 H	263	59.30	41.41
3	#5725.00	58.42 PK	68.20	-9.78	3.92 H	263	54.80	3.62
4	11400.00	56.57 PK	74.00	-17.43	1.87 H	262	47.00	9.57
5	11400.00	43.77 AV	54.00	-10.23	1.87 H	262	34.20	9.57

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	114.21 PK			1.19 V	333	72.80	41.41
2	*5700.00	103.61 AV			1.19 V	333	62.20	41.41
3	#5725.00	62.42 PK	68.20	-5.78	1.19 V	333	58.80	3.62
4	11400.00	57.07 PK	74.00	-16.93	1.93 V	192	47.50	9.57
5	11400.00	44.07 AV	54.00	-9.93	1.93 V	192	34.50	9.57

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU26)	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	#5628.80	57.39 PK	68.20	-10.81	3.97 H	266	54.12	3.27
2	*5745.00	112.67 PK			3.97 H	266	71.00	41.67
3	*5745.00	100.27 AV			3.97 H	266	58.60	41.67
4	#5975.60	57.19 PK	68.20	-11.01	3.97 H	266	53.21	3.98
5	11490.00	56.87 PK	74.00	-17.13	2.12 H	275	47.20	9.67
6	11490.00	44.17 AV	54.00	-9.83	2.12 H	275	34.50	9.67

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	#5605.60	57.66 PK	68.20	-10.54	1.04 V	333	54.51	3.15
2	*5745.00	115.87 PK			1.04 V	333	74.20	41.67
3	*5745.00	103.17 AV			1.04 V	333	61.50	41.67
4	#5956.80	58.03 PK	68.20	-10.17	1.04 V	333	54.18	3.85
5	11490.00	57.17 PK	74.00	-16.83	1.86 V	191	47.50	9.67
6	11490.00	44.57 AV	54.00	-9.43	1.86 V	191	34.90	9.67

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU52)	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	57.30 PK	74.00	-16.70	3.86 H	277	54.90	2.40
2	5150.00	43.90 AV	54.00	-10.10	3.86 H	277	41.50	2.40
3	*5180.00	109.78 PK			3.86 H	277	69.50	40.28
4	*5180.00	97.68 AV			3.86 H	277	57.40	40.28
5	#10360.00	54.80 PK	68.20	-13.40	2.06 H	260	46.30	8.50

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	57.90 PK	74.00	-16.10	1.03 V	322	55.50	2.40
2	5150.00	44.20 AV	54.00	-9.80	1.03 V	322	41.80	2.40
3	*5180.00	113.08 PK			1.03 V	322	72.80	40.28
4	*5180.00	100.38 AV			1.03 V	322	60.10	40.28
5	#10360.00	55.00 PK	68.20	-13.20	1.80 V	191	46.50	8.50

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU52)	Channel	CH 64 : 5320 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	112.16 PK			3.99 H	277	72.10	40.06
2	*5320.00	99.16 AV			3.99 H	277	59.10	40.06
3	5350.00	58.05 PK	74.00	-15.95	3.99 H	277	56.00	2.05
4	5350.00	43.65 AV	54.00	-10.35	3.99 H	277	41.60	2.05
5	10640.00	56.71 PK	74.00	-17.29	2.18 H	263	48.10	8.61
6	10640.00	42.71 AV	54.00	-11.29	2.18 H	263	34.10	8.61

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	115.46 PK			1.01 V	325	75.40	40.06
2	*5320.00	101.96 AV			1.01 V	325	61.90	40.06
3	5350.00	62.35 PK	74.00	-11.65	1.01 V	325	60.30	2.05
4	5350.00	43.95 AV	54.00	-10.05	1.01 V	325	41.90	2.05
5	10640.00	57.01 PK	74.00	-16.99	1.86 V	190	48.40	8.61
6	10640.00	43.11 AV	54.00	-10.89	1.86 V	190	34.50	8.61

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU52)	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	56.60 PK	74.00	-17.40	3.82 H	268	54.50	2.10
2	5460.00	43.50 AV	54.00	-10.50	3.82 H	268	41.40	2.10
3	#5470.00	57.63 PK	68.20	-10.57	3.82 H	268	55.50	2.13
4	*5500.00	109.67 PK			3.82 H	268	69.50	40.17
5	*5500.00	97.07 AV			3.82 H	268	56.90	40.17
6	11000.00	56.32 PK	74.00	-17.68	2.19 H	261	47.60	8.72
7	11000.00	42.72 AV	54.00	-11.28	2.19 H	261	34.00	8.72

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	57.50 PK	74.00	-16.50	1.01 V	326	55.40	2.10
2	5460.00	43.60 AV	54.00	-10.40	1.01 V	326	41.50	2.10
3	#5470.00	58.73 PK	68.20	-9.47	1.01 V	326	56.60	2.13
4	*5500.00	112.87 PK			1.01 V	326	72.70	40.17
5	*5500.00	99.87 AV			1.01 V	326	59.70	40.17
6	11000.00	56.72 PK	74.00	-17.28	1.91 V	196	48.00	8.72
7	11000.00	43.02 AV	54.00	-10.98	1.91 V	196	34.30	8.72

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU52)	Channel	CH 140 : 5700 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.81 PK			3.99 H	269	69.40	41.41
2	*5700.00	97.61 AV			3.99 H	269	56.20	41.41
3	#5725.00	59.32 PK	68.20	-8.88	3.99 H	269	55.70	3.62
4	11400.00	56.87 PK	74.00	-17.13	2.03 H	261	47.30	9.57
5	11400.00	43.77 AV	54.00	-10.23	2.03 H	261	34.20	9.57

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	114.11 PK			1.16 V	332	72.70	41.41
2	*5700.00	100.41 AV			1.16 V	332	59.00	41.41
3	#5725.00	62.12 PK	68.20	-6.08	1.16 V	332	58.50	3.62
4	11400.00	56.97 PK	74.00	-17.03	1.87 V	198	47.40	9.57
5	11400.00	43.87 AV	54.00	-10.13	1.87 V	198	34.30	9.57

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU52)	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	#5615.20	57.78 PK	68.20	-10.42	3.96 H	269	54.57	3.21
2	*5745.00	110.87 PK			3.96 H	269	69.20	41.67
3	*5745.00	97.57 AV			3.96 H	269	55.90	41.67
4	#5986.40	58.26 PK	68.20	-9.94	3.96 H	269	54.21	4.05
5	11490.00	56.87 PK	74.00	-17.13	2.01 H	259	47.20	9.67
6	11490.00	44.17 AV	54.00	-9.83	2.01 H	259	34.50	9.67

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	#5630.40	57.23 PK	68.20	-10.97	1.06 V	336	53.94	3.29
2	*5745.00	114.17 PK			1.06 V	336	72.50	41.67
3	*5745.00	100.47 AV			1.06 V	336	58.80	41.67
4	#5997.20	58.65 PK	68.20	-9.55	1.06 V	336	54.53	4.12
5	11490.00	57.27 PK	74.00	-16.73	1.88 V	199	47.60	9.67
6	11490.00	44.47 AV	54.00	-9.53	1.88 V	199	34.80	9.67

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU106)	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	56.90 PK	74.00	-17.10	3.90 H	272	54.50	2.40
2	5150.00	43.90 AV	54.00	-10.10	3.90 H	272	41.50	2.40
3	*5180.00	106.48 PK			3.90 H	272	66.20	40.28
4	*5180.00	94.78 AV			3.90 H	272	54.50	40.28
5	#10360.00	54.80 PK	68.20	-13.40	2.06 H	260	46.30	8.50

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	57.30 PK	74.00	-16.70	1.03 V	322	54.90	2.40
2	5150.00	44.20 AV	54.00	-9.80	1.03 V	322	41.80	2.40
3	*5180.00	109.68 PK			1.03 V	322	69.40	40.28
4	*5180.00	97.48 AV			1.03 V	322	57.20	40.28
5	#10360.00	55.10 PK	68.20	-13.10	1.81 V	189	46.60	8.50

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU106)	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	109.06 PK			3.90 H	274	69.00	40.06
2	*5320.00	96.06 AV			3.90 H	274	56.00	40.06
3	5350.00	56.85 PK	74.00	-17.15	3.90 H	274	54.80	2.05
4	5350.00	43.55 AV	54.00	-10.45	3.90 H	274	41.50	2.05
5	10640.00	56.91 PK	74.00	-17.09	2.16 H	261	48.30	8.61
6	10640.00	43.11 AV	54.00	-10.89	2.16 H	261	34.50	8.61

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	112.26 PK			1.02 V	326	72.20	40.06
2	*5320.00	98.96 AV			1.02 V	326	58.90	40.06
3	5350.00	57.25 PK	74.00	-16.75	1.02 V	326	55.20	2.05
4	5350.00	43.85 AV	54.00	-10.15	1.02 V	326	41.80	2.05
5	10640.00	57.21 PK	74.00	-16.79	1.82 V	185	48.60	8.61
6	10640.00	43.31 AV	54.00	-10.69	1.82 V	185	34.70	8.61

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU106)	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	56.20 PK	74.00	-17.80	3.95 H	270	54.10	2.10
2	5460.00	43.50 AV	54.00	-10.50	3.95 H	270	41.40	2.10
3	#5470.00	57.23 PK	68.20	-10.97	3.95 H	270	55.10	2.13
4	*5500.00	106.27 PK			3.95 H	270	66.10	40.17
5	*5500.00	94.27 AV			3.95 H	270	54.10	40.17
6	11000.00	56.42 PK	74.00	-17.58	1.99 H	259	47.70	8.72
7	11000.00	42.82 AV	54.00	-11.18	1.99 H	259	34.10	8.72

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	56.90 PK	74.00	-17.10	1.01 V	327	54.80	2.10
2	5460.00	43.80 AV	54.00	-10.20	1.01 V	327	41.70	2.10
3	#5470.00	59.13 PK	68.20	-9.07	1.01 V	327	57.00	2.13
4	*5500.00	109.47 PK			1.01 V	327	69.30	40.17
5	*5500.00	97.17 AV			1.01 V	327	57.00	40.17
6	11000.00	56.82 PK	74.00	-17.18	1.94 V	200	48.10	8.72
7	11000.00	43.12 AV	54.00	-10.88	1.94 V	200	34.40	8.72

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU106)	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	106.31 PK			3.87 H	272	64.90	41.41
2	*5700.00	94.31 AV			3.87 H	272	52.90	41.41
3	#5725.00	58.82 PK	68.20	-9.38	3.87 H	272	55.20	3.62
4	11400.00	56.77 PK	74.00	-17.23	2.05 H	263	47.20	9.57
5	11400.00	43.87 AV	54.00	-10.13	2.05 H	263	34.30	9.57

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	109.61 PK			1.15 V	334	68.20	41.41
2	*5700.00	97.31 AV			1.15 V	334	55.90	41.41
3	#5725.00	60.82 PK	68.20	-7.38	1.15 V	334	57.20	3.62
4	11400.00	57.27 PK	74.00	-16.73	1.90 V	205	47.70	9.57
5	11400.00	44.17 AV	54.00	-9.83	1.90 V	205	34.60	9.57

Remarks:

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

RF Mode	TX 802.11ax (HE20) (RU106)	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	#5626.40	57.82 PK	68.20	-10.38	3.98 H	275	54.56	3.26
2	*5745.00	107.47 PK			3.98 H	275	65.80	41.67
3	*5745.00	94.97 AV			3.98 H	275	53.30	41.67
4	#5996.00	58.65 PK	68.20	-9.55	3.98 H	275	54.54	4.11
5	11490.00	57.07 PK	74.00	-16.93	2.19 H	275	47.40	9.67
6	11490.00	44.17 AV	54.00	-9.83	2.19 H	275	34.50	9.67

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	#5623.20	57.46 PK	68.20	-10.74	1.08 V	335	54.22	3.24
2	*5745.00	110.77 PK			1.08 V	335	69.10	41.67
3	*5745.00	97.77 AV			1.08 V	335	56.10	41.67
4	#5982.00	58.40 PK	68.20	-9.80	1.08 V	335	54.38	4.02
5	11490.00	57.17 PK	74.00	-16.83	1.92 V	208	47.50	9.67
6	11490.00	44.27 AV	54.00	-9.73	1.92 V	208	34.60	9.67

Remarks:

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

RF Mode	TX 802.11ax (HE40) (RU242)	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	58.00 PK	74.00	-16.00	3.96 H	303	55.60	2.40
2	5150.00	44.00 AV	54.00	-10.00	3.96 H	303	41.60	2.40
3	*5190.00	104.86 PK			3.96 H	303	64.60	40.26
4	*5190.00	92.66 AV			3.96 H	303	52.40	40.26
5	#10380.00	55.38 PK	68.20	-12.82	2.23 H	280	46.90	8.48

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	57.60 PK	74.00	-16.40	1.12 V	325	55.20	2.40
2	5150.00	44.20 AV	54.00	-9.80	1.12 V	325	41.80	2.40
3	*5190.00	108.26 PK			1.12 V	325	68.00	40.26
4	*5190.00	96.36 AV			1.12 V	325	56.10	40.26
5	#10380.00	55.58 PK	68.20	-12.62	1.97 V	212	47.10	8.48

Remarks:

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

RF Mode	TX 802.11ax (HE40) (RU242)	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	105.53 PK			3.95 H	306	65.50	40.03
2	*5310.00	92.53 AV			3.95 H	306	52.50	40.03
3	5350.00	57.25 PK	74.00	-16.75	3.95 H	306	55.20	2.05
4	5350.00	43.75 AV	54.00	-10.25	3.95 H	306	41.70	2.05
5	10620.00	55.70 PK	74.00	-18.30	2.29 H	297	47.00	8.70
6	10620.00	43.20 AV	54.00	-10.80	2.29 H	297	34.50	8.70

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	109.03 PK			1.28 V	328	69.00	40.03
2	*5310.00	96.23 AV			1.28 V	328	56.20	40.03
3	5350.00	59.75 PK	74.00	-14.25	1.28 V	328	57.70	2.05
4	5350.00	43.95 AV	54.00	-10.05	1.28 V	328	41.90	2.05
5	10620.00	55.90 PK	74.00	-18.10	1.91 V	208	47.20	8.70
6	10620.00	43.40 AV	54.00	-10.60	1.91 V	208	34.70	8.70

Remarks:

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

RF Mode	TX 802.11ax (HE40) (RU242)	Channel	CH 102 : 5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.30 PK	74.00	-16.70	3.91 H	309	55.20	2.10
2	5460.00	43.60 AV	54.00	-10.40	3.91 H	309	41.50	2.10
3	#5470.00	57.93 PK	68.20	-10.27	3.91 H	309	55.80	2.13
4	*5510.00	104.95 PK			3.91 H	309	64.70	40.25
5	*5510.00	91.75 AV			3.91 H	309	51.50	40.25
6	11020.00	55.57 PK	74.00	-18.43	2.28 H	292	46.80	8.77
7	11020.00	42.87 AV	54.00	-11.13	2.28 H	292	34.10	8.77

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	57.60 PK	74.00	-16.40	1.04 V	328	55.50	2.10
2	5460.00	43.80 AV	54.00	-10.20	1.04 V	328	41.70	2.10
3	#5470.00	59.03 PK	68.20	-9.17	1.04 V	328	56.90	2.13
4	*5510.00	108.45 PK			1.04 V	328	68.20	40.25
5	*5510.00	95.35 AV			1.04 V	328	55.10	40.25
6	11020.00	55.77 PK	74.00	-18.23	1.94 V	212	47.00	8.77
7	11020.00	43.07 AV	54.00	-10.93	1.94 V	212	34.30	8.77

Remarks:

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

RF Mode	TX 802.11ax (HE40) (RU242)	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	103.65 PK			3.94 H	297	62.30	41.35
2	*5670.00	91.25 AV			3.94 H	297	49.90	41.35
3	#5725.00	59.02 PK	68.20	-9.18	3.94 H	297	55.40	3.62
4	11340.00	56.53 PK	74.00	-17.47	2.26 H	294	47.00	9.53
5	11340.00	43.53 AV	54.00	-10.47	2.26 H	294	34.00	9.53

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	107.15 PK			1.07 V	307	65.80	41.35
2	*5670.00	94.75 AV			1.07 V	307	53.40	41.35
3	#5725.00	60.62 PK	68.20	-7.58	1.07 V	307	57.00	3.62
4	11340.00	56.63 PK	74.00	-17.37	2.00 V	207	47.10	9.53
5	11340.00	43.73 AV	54.00	-10.27	2.00 V	207	34.20	9.53

Remarks:

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

RF Mode	TX 802.11ax (HE40) (RU242)	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	#5647.20	57.90 PK	68.20	-10.30	3.93 H	299	54.52	3.38
2	*5755.00	103.22 PK			3.93 H	299	61.50	41.72
3	*5755.00	90.12 AV			3.93 H	299	48.40	41.72
4	#5978.40	58.63 PK	68.20	-9.57	3.93 H	299	54.63	4.00
5	11510.00	56.87 PK	74.00	-17.13	2.21 H	302	47.20	9.67
6	11510.00	43.87 AV	54.00	-10.13	2.21 H	302	34.20	9.67

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	#5646.80	58.21 PK	68.20	-9.99	1.04 V	308	54.84	3.37
2	*5755.00	106.82 PK			1.04 V	308	65.10	41.72
3	*5755.00	93.52 AV			1.04 V	308	51.80	41.72
4	#5998.40	59.27 PK	68.20	-8.93	1.04 V	308	55.14	4.13
5	11510.00	57.07 PK	74.00	-16.93	1.97 V	208	47.40	9.67
6	11510.00	44.07 AV	54.00	-9.93	1.97 V	208	34.40	9.67

Remarks:

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

RF Mode	TX 802.11ax (HE80) (RU484)	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	63.20 PK	74.00	-10.80	3.95 H	301	60.80	2.40
2	5150.00	44.30 AV	54.00	-9.70	3.95 H	301	41.90	2.40
3	*5210.00	100.91 PK			3.95 H	301	60.70	40.21
4	*5210.00	88.81 AV			3.95 H	301	48.60	40.21
5	#10420.00	55.66 PK	68.20	-12.54	2.28 H	304	47.20	8.46

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	67.10 PK	74.00	-6.90	1.16 V	321	64.70	2.40
2	5150.00	45.00 AV	54.00	-9.00	1.16 V	321	42.60	2.40
3	*5210.00	104.51 PK			1.16 V	321	64.30	40.21
4	*5210.00	92.21 AV			1.16 V	321	52.00	40.21
5	#10420.00	56.46 PK	68.20	-11.74	2.02 V	212	48.00	8.46

Remarks:

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

RF Mode	TX 802.11ax (HE80) (RU484)	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	*5290.00	102.12 PK			3.89 H	299	62.10	40.02
2	*5290.00	88.92 AV			3.89 H	299	48.90	40.02
3	5350.00	56.25 PK	74.00	-17.75	3.89 H	299	54.20	2.05
4	5350.00	43.75 AV	54.00	-10.25	3.89 H	299	41.70	2.05
5	#10580.00	56.33 PK	68.20	-11.87	2.28 H	297	47.60	8.73

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	*5290.00	105.72 PK			1.13 V	325	65.70	40.02
2	*5290.00	92.42 AV			1.13 V	325	52.40	40.02
3	5350.00	56.45 PK	74.00	-17.55	1.13 V	325	54.40	2.05
4	5350.00	43.95 AV	54.00	-10.05	1.13 V	325	41.90	2.05
5	#10580.00	56.83 PK	68.20	-11.37	1.99 V	209	48.10	8.73

Remarks:

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

RF Mode	TX 802.11ax (HE80) (RU484)	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	61.20 PK	74.00	-12.80	3.98 H	299	59.10	2.10
2	5460.00	43.60 AV	54.00	-10.40	3.98 H	299	41.50	2.10
3	#5470.00	65.43 PK	68.20	-2.77	3.98 H	299	63.30	2.13
4	*5530.00	101.32 PK			3.98 H	299	60.90	40.42
5	*5530.00	88.92 AV			3.98 H	299	48.50	40.42
6	11060.00	56.38 PK	74.00	-17.62	2.30 H	304	47.50	8.88
7	11060.00	43.08 AV	54.00	-10.92	2.30 H	304	34.20	8.88

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	64.10 PK	74.00	-9.90	1.03 V	326	62.00	2.10
2	5460.00	44.00 AV	54.00	-10.00	1.03 V	326	41.90	2.10
3	#5470.00	66.93 PK	68.20	-1.27	1.03 V	326	64.80	2.13
4	*5530.00	104.92 PK			1.03 V	326	64.50	40.42
5	*5530.00	92.32 AV			1.03 V	326	51.90	40.42
6	11060.00	56.78 PK	74.00	-17.22	1.96 V	215	47.90	8.88
7	11060.00	43.38 AV	54.00	-10.62	1.96 V	215	34.50	8.88

Remarks:

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

RF Mode	TX 802.11ax (HE80) (RU484)	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	#5601.60	57.22 PK	68.20	-10.98	3.88 H	293	54.09	3.13
2	*5775.00	100.77 PK			3.88 H	293	59.00	41.77
3	*5775.00	87.57 AV			3.88 H	293	45.80	41.77
4	#5979.60	58.20 PK	68.20	-10.00	3.88 H	293	54.19	4.01
5	11550.00	57.62 PK	74.00	-16.38	2.23 H	297	48.00	9.62
6	11550.00	44.32 AV	54.00	-9.68	2.23 H	297	34.70	9.62

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	#5618.40	57.79 PK	68.20	-10.41	1.04 V	309	54.57	3.22
2	*5775.00	104.37 PK			1.04 V	309	62.60	41.77
3	*5775.00	91.07 AV			1.04 V	309	49.30	41.77
4	#5987.60	58.41 PK	68.20	-9.79	1.04 V	309	54.35	4.06
5	11550.00	58.02 PK	74.00	-15.98	1.99 V	209	48.40	9.62
6	11550.00	44.62 AV	54.00	-9.38	1.99 V	209	35.00	9.62

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) (RU966)	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	60.10 PK	74.00	-13.90	3.96 H	301	57.70	2.40
2	5150.00	44.40 AV	54.00	-9.60	3.96 H	301	42.00	2.40
3	*5250.00	98.58 PK			3.96 H	301	58.50	40.08
4	*5250.00	85.38 AV			3.96 H	301	45.30	40.08
5	#10500.00	55.60 PK	68.20	-12.60	2.24 H	303	47.10	8.50

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	63.00 PK	74.00	-11.00	1.26 V	325	60.60	2.40
2	5150.00	44.90 AV	54.00	-9.10	1.26 V	325	42.50	2.40
3	*5250.00	102.08 PK			1.26 V	325	62.00	40.08
4	*5250.00	88.88 AV			1.26 V	325	48.80	40.08
5	#10500.00	56.00 PK	68.20	-12.20	1.95 V	212	47.50	8.50

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) (RU966)	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	56.70 PK	74.00	-17.30	3.95 H	299	54.60	2.10
2	5460.00	43.90 AV	54.00	-10.10	3.95 H	299	41.80	2.10
3	#5470.00	62.23 PK	68.20	-5.97	3.95 H	299	60.10	2.13
4	*5570.00	98.57 PK			3.95 H	299	57.80	40.77
5	*5570.00	85.67 AV			3.95 H	299	44.90	40.77
6	11140.00	56.37 PK	74.00	-17.63	2.18 H	297	47.50	8.87
7	11140.00	43.77 AV	54.00	-10.23	2.18 H	297	34.90	8.87

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	57.40 PK	74.00	-16.60	1.05 V	328	55.30	2.10
2	5460.00	44.00 AV	54.00	-10.00	1.05 V	328	41.90	2.10
3	#5470.00	65.13 PK	68.20	-3.07	1.05 V	328	63.00	2.13
4	*5570.00	102.07 PK			1.05 V	328	61.30	40.77
5	*5570.00	89.17 AV			1.05 V	328	48.40	40.77
6	11140.00	56.87 PK	74.00	-17.13	2.02 V	208	48.00	8.87
7	11140.00	44.17 AV	54.00	-9.83	2.02 V	208	35.30	8.87

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) (RU966S)	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	60.60 PK	74.00	-13.40	3.93 H	294	58.20	2.40
2	5150.00	44.20 AV	54.00	-9.80	3.93 H	294	41.80	2.40
3	*5250.00	98.68 PK			3.93 H	294	58.60	40.08
4	*5250.00	85.98 AV			3.93 H	294	45.90	40.08
5	#10500.00	55.70 PK	68.20	-12.50	2.18 H	289	47.20	8.50

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	*5250.00	102.08 PK			1.05 V	322	62.00	40.08
2	*5250.00	89.58 AV			1.05 V	322	49.50	40.08
3	5350.00	64.75 PK	74.00	-9.25	1.05 V	322	62.70	2.05
4	5350.00	44.45 AV	54.00	-9.55	1.05 V	322	42.40	2.05
5	#10500.00	56.10 PK	68.20	-12.10	1.99 V	205	47.60	8.50

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) (RU966S)	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	*5570.00	98.27 PK			3.90 H	293	57.50	40.77
2	*5570.00	85.37 AV			3.90 H	293	44.60	40.77
3	#5725.00	58.52 PK	68.20	-9.68	3.90 H	293	54.90	3.62
4	11140.00	56.57 PK	74.00	-17.43	2.27 H	305	47.70	8.87
5	11140.00	44.07 AV	54.00	-9.93	2.27 H	305	35.20	8.87

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	*5570.00	101.87 PK			1.00 V	328	61.10	40.77
2	*5570.00	88.87 AV			1.00 V	328	48.10	40.77
3	#5725.00	59.72 PK	68.20	-8.48	1.00 V	328	56.10	3.62
4	11140.00	56.97 PK	74.00	-17.03	1.96 V	211	48.10	8.87
5	11140.00	44.37 AV	54.00	-9.63	1.96 V	211	35.50	8.87

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.

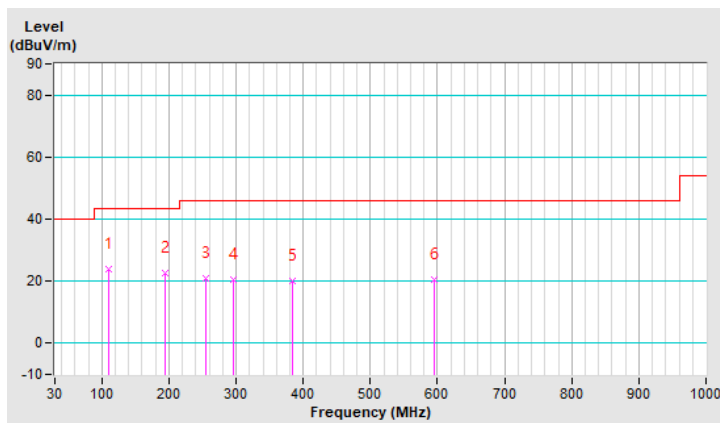
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	110.51	23.98 QP	43.50	-19.52	2.00 H	295	45.30	-21.32
2	194.90	22.43 QP	43.50	-21.07	1.51 H	2	43.90	-21.47
3	255.04	20.90 QP	46.00	-25.10	1.01 H	267	40.17	-19.27
4	296.75	20.67 QP	46.00	-25.33	1.01 H	230	38.40	-17.73
5	384.05	19.89 QP	46.00	-26.11	2.00 H	356	35.40	-15.51
6	595.51	20.32 QP	46.00	-25.68	2.00 H	10	30.71	-10.39

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.

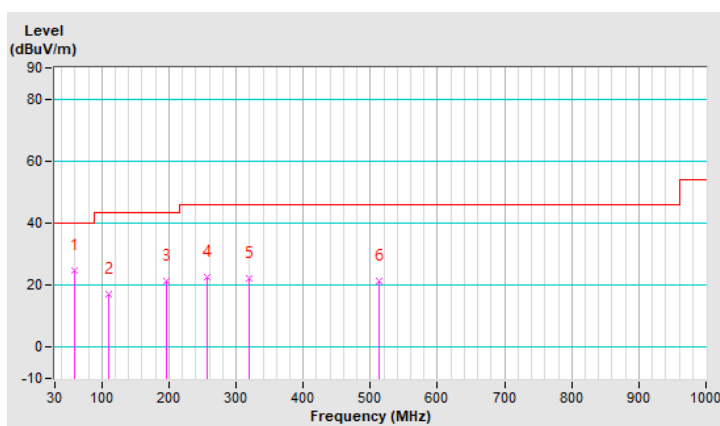


RF Mode	TX 802.11ax (HE40)	Channel	CH 134 : 5670 MHz
Frequency Range	30MHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	60.07	24.56 QP	40.00	-15.44	1.00 V	255	43.50	-18.94
2	110.51	17.03 QP	43.50	-26.47	1.49 V	223	38.35	-21.32
3	195.87	21.19 QP	43.50	-22.31	1.00 V	192	42.75	-21.56
4	256.01	22.58 QP	46.00	-23.42	1.00 V	343	41.82	-19.24
5	320.03	22.02 QP	46.00	-23.98	1.00 V	313	39.03	-17.01
6	512.09	21.21 QP	46.00	-24.79	1.00 V	348	33.79	-12.58

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	ESR3	102783	Dec. 20, 2021	Dec. 19, 2022
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 04, 2021	Sep. 03, 2022
V-LISN/AMN SCHWARZBECK (EUT)	NNBL 8226-2	8226-142	Aug. 20, 2021	Aug. 19, 2022
LISN/AMN ROHDE & SCHWARZ (Peripheral)	ENV216	101196	Apr. 26, 2021	Apr. 25, 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 2 (Conduction 2).

3. The VCCI Site Registration No. is C-12047.

4. Tested date: Feb. 16, 2022

4.2.3 Test Procedures

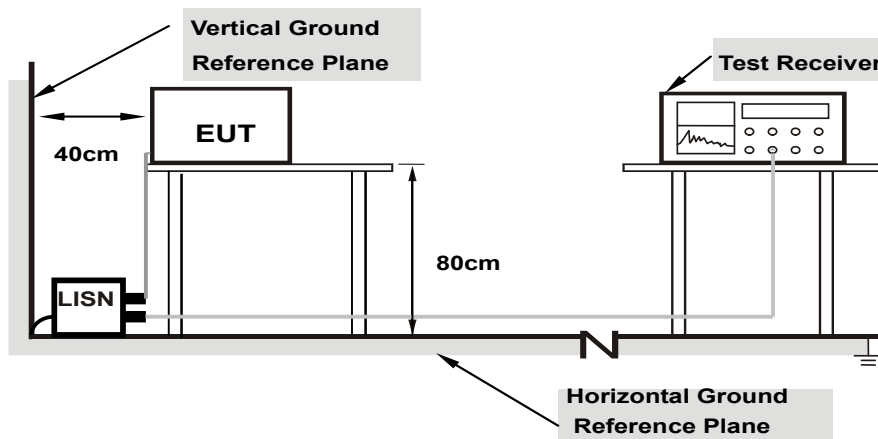
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

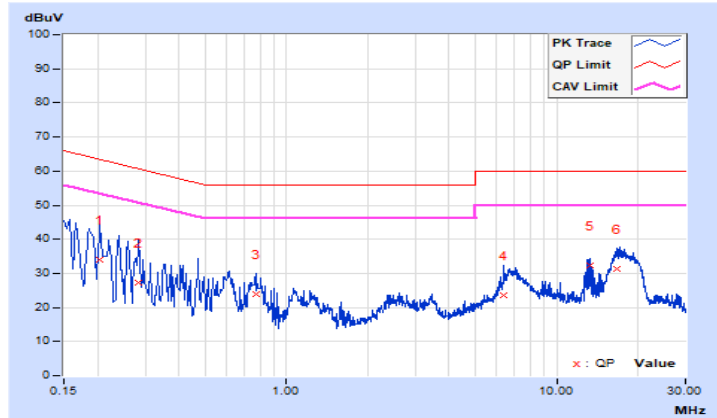
802.11ax (HE40)

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	0.20474	10.13	24.02	10.36	34.15	20.49	63.42
2	0.28294	10.13	17.26	1.68	27.39	11.81	60.73	50.73	-33.34	-38.92
3	0.76778	10.16	13.59	5.57	23.75	15.73	56.00	46.00	-32.25	-30.27
4	6.40209	10.28	13.19	7.66	23.47	17.94	60.00	50.00	-36.53	-32.06
5	13.24068	10.37	21.81	20.03	32.18	30.40	60.00	50.00	-27.82	-19.60
6	16.74795	10.42	21.04	15.19	31.46	25.61	60.00	50.00	-28.54	-24.39

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.

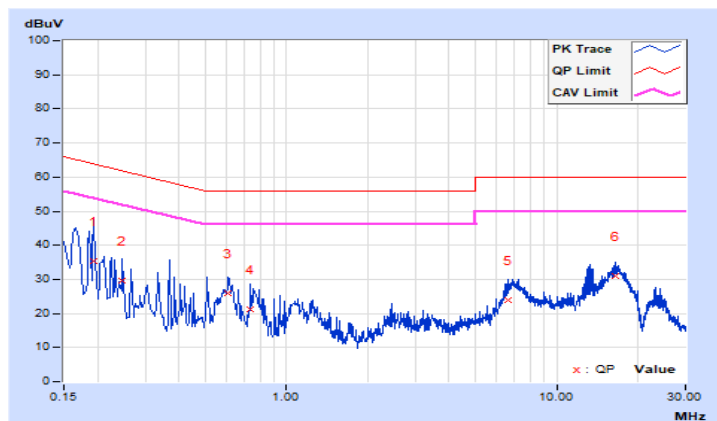


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.19301	10.13	25.07	6.89	35.20	17.02	63.91
2	0.24775	10.13	19.60	6.02	29.73	16.15	61.83	51.83	-32.10	-35.68
3	0.60737	10.16	15.93	9.77	26.09	19.93	56.00	46.00	-29.91	-26.07
4	0.73650	10.17	11.11	5.16	21.28	15.33	56.00	46.00	-34.72	-30.67
5	6.58586	10.34	13.41	7.83	23.75	18.17	60.00	50.00	-36.25	-31.83
6	16.47034	10.58	20.37	14.54	30.95	25.12	60.00	50.00	-29.05	-24.88

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 $N_{ANT} \leq 4$;

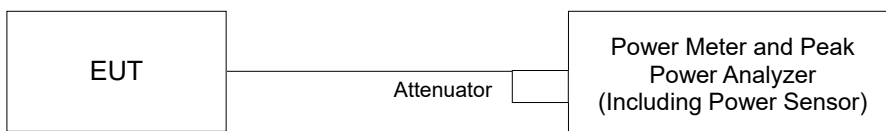
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

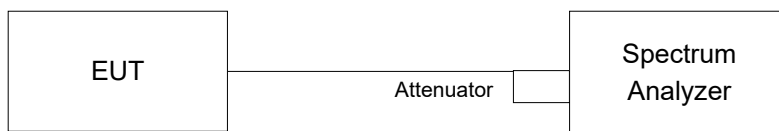
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

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:

1TX: Chain 0

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	13.614	11.34	24.00	Pass
40	5200	13.677	11.36	24.00	Pass
48	5240	13.274	11.23	24.00	Pass
52	5260	13.213	11.21	24.00	Pass
60	5300	13.428	11.28	24.00	Pass
64	5320	13.490	11.30	24.00	Pass
100	5500	13.428	11.28	24.00	Pass
116	5580	13.062	11.16	24.00	Pass
140	5700	13.428	11.28	24.00	Pass
144	5720 (For U-NII-2C)	9.509	9.78	23.30	Pass
144	5720 (For U-NII-3)	1.525	1.83	30.00	Pass
149	5745	12.942	11.12	30.00	Pass
157	5785	13.213	11.21	30.00	Pass
165	5825	13.032	11.15	30.00	Pass

Note:

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

- $11\text{dBm} + 10\log(24.42) = 24.87 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.70) = 24.92 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.42) = 24.87 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.68) = 24.92 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.32) = 24.85 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.42) = 24.87 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5708.01) = 23.30 < 24\text{dBm}$

1TX: Chain 1

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	14.060	11.48	24.00	Pass
40	5200	13.868	11.42	24.00	Pass
48	5240	13.772	11.39	24.00	Pass
52	5260	13.900	11.43	24.00	Pass
60	5300	13.740	11.38	24.00	Pass
64	5320	13.964	11.45	24.00	Pass
100	5500	13.804	11.40	24.00	Pass
116	5580	13.521	11.31	24.00	Pass
140	5700	13.836	11.41	24.00	Pass
144	5720 (For U-NII-2C)	9.749	9.89	23.39	Pass
144	5720 (For U-NII-3)	1.607	2.06	30.00	Pass
149	5745	13.335	11.25	30.00	Pass
157	5785	13.521	11.31	30.00	Pass
165	5825	13.335	11.25	30.00	Pass

Note:

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

- $11\text{dBm} + 10\log(23.94) = 24.79 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.16) = 24.83 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.23) = 24.84 > 24\text{dBm}$
- $11\text{dBm} + 10\log(23.88) = 24.78 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.81) = 24.94 > 24\text{dBm}$
- $11\text{dBm} + 10\log(24.22) = 24.84 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5707.64) = 23.39 < 24\text{dBm}$

2TX

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	11.26	11.30	26.856	14.29	24.00	Pass
40	5200	11.30	11.40	27.293	14.36	24.00	Pass
48	5240	11.25	11.31	26.856	14.29	24.00	Pass
52	5260	11.30	11.35	27.135	14.34	24.00	Pass
60	5300	11.28	11.34	27.042	14.32	24.00	Pass
64	5320	11.12	11.42	26.81	14.28	24.00	Pass
100	5500	11.23	11.36	26.951	14.31	24.00	Pass
116	5580	11.26	11.39	27.138	14.34	24.00	Pass
140	5700	11.36	11.42	27.545	14.40	24.00	Pass
144	5720 (For U-NII-2C)	9.79	9.88	19.255	12.85	23.32	Pass
144	5720 (For U-NII-3)	2.81	2.98	3.896	5.91	30.00	Pass
149	5745	11.36	11.38	27.418	14.38	30.00	Pass
157	5785	11.34	11.42	27.482	14.39	30.00	Pass
165	5825	11.21	11.30	26.703	14.27	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(23.50) = 24.71 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(24.66) = 24.91 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(23.69) = 24.74 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(23.93) = 24.78 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.81) = 24.94 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(24.49) = 24.88 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5707.76) = 23.36 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(24.34) = 24.86 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(24.65) = 24.91 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(24.81) = 24.94 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(24.41) = 24.87 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.60) = 24.90 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(23.97) = 24.79 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5707.92) = 23.32 < 24\text{dBm}$

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	11.33	11.42	27.451	14.39	24.00	Pass
46	5230	11.21	11.38	26.953	14.31	24.00	Pass
54	5270	11.28	11.30	26.917	14.30	24.00	Pass
62	5310	11.31	11.41	27.356	14.37	24.00	Pass
102	5510	11.33	11.40	27.387	14.38	24.00	Pass
110	5550	11.28	11.30	26.917	14.30	24.00	Pass
134	5670	11.41	11.44	27.767	14.44	24.00	Pass
142	5710 (For U-NII-2C)	10.41	10.38	22.365	13.50	24.00	Pass
142	5710 (For U-NII-3)	-1.35	-1.30	1.505	1.78	30.00	Pass
151	5755	11.24	11.29	26.763	14.28	30.00	Pass
159	5795	11.25	11.36	27.013	14.32	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(43.21) = 27.35 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(43.94) = 27.42 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(43.73) = 27.40 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(44.43) = 27.47 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(43.73) = 27.40 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.90) = 26.69 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(43.66) = 27.40 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(43.44) = 27.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(43.80) = 27.41 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(43.60) = 27.39 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(43.39) = 27.37 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.98) = 26.68 > 24\text{dBm}$

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	11.23	11.39	27.046	14.32	24.00	Pass
58	5290	11.20	11.27	26.579	14.25	24.00	Pass
106	5530	11.31	11.38	27.261	14.36	24.00	Pass
122	5610	11.28	11.31	26.948	14.31	24.00	Pass
138	5690 (For U-NII-2C)	10.63	10.80	23.584	13.73	24.00	Pass
138	5690 (For U-NII-3)	-4.98	-4.68	0.658	-1.82	30.00	Pass
155	5775	11.25	11.31	26.856	14.29	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(84.26) = 30.25 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(84.37) = 30.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(84.17) = 30.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5647.54) = 29.89 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(84.31) = 30.25 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(84.99) = 30.29 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(84.29) = 30.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5647.86) = 29.87 > 24\text{dBm}$

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 (U-NII-1 Band)	5250	8.02	7.21	11.978	10.78	24.00	Pass
*50 (U-NII-2A Band)	5250	8.03	7.60	12.503	10.97	24.00	Pass
114	5570	11.33	11.45	27.547	14.40	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(83.62) = 30.22 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(168.69) = 33.27 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.47) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(167.81) = 33.24 > 24\text{dBm}$

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	11.32	11.41	27.388	14.38	24.00	Pass
40	5200	11.36	11.45	27.641	14.42	24.00	Pass
48	5240	11.30	11.39	27.262	14.36	24.00	Pass
52	5260	11.41	11.36	27.513	14.40	24.00	Pass
60	5300	11.30	11.39	27.262	14.36	24.00	Pass
64	5320	11.20	11.45	27.146	14.34	24.00	Pass
100	5500	11.32	11.40	27.356	14.37	24.00	Pass
116	5580	11.32	11.41	27.388	14.38	24.00	Pass
140	5700	11.39	11.43	27.672	14.42	24.00	Pass
144	5720 (For U-NII-2C)	9.87	9.97	19.636	12.93	23.32	Pass
144	5720 (For U-NII-3)	2.92	3.09	3.996	6.02	30.00	Pass
149	5745	11.37	11.40	27.513	14.40	30.00	Pass
157	5785	11.38	11.45	27.704	14.43	30.00	Pass
165	5825	11.31	11.39	27.293	14.36	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(23.50) = 24.71 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(24.66) = 24.91 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(23.69) = 24.74 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(23.93) = 24.78 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.81) = 24.94 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(24.49) = 24.88 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5707.76) = 23.36 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(24.34) = 24.86 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(24.65) = 24.91 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(24.81) = 24.94 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(24.41) = 24.87 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(24.60) = 24.90 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(23.97) = 24.79 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5707.92) = 23.32 < 24\text{dBm}$

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	11.36	11.45	27.641	14.42	24.00	Pass
46	5230	11.30	11.40	27.293	14.36	24.00	Pass
54	5270	11.36	11.42	27.545	14.40	24.00	Pass
62	5310	11.36	11.46	27.673	14.42	24.00	Pass
102	5510	11.36	11.41	27.513	14.40	24.00	Pass
110	5550	11.30	11.36	27.167	14.34	24.00	Pass
134	5670	11.44	11.45	27.895	14.46	24.00	Pass
142	5710 (For U-NII-2C)	10.50	10.46	22.807	13.58	24.00	Pass
142	5710 (For U-NII-3)	-1.27	-1.23	1.5313	1.85	30.00	Pass
151	5755	11.30	11.39	27.262	14.36	30.00	Pass
159	5795	11.31	11.40	27.325	14.37	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(43.21) = 27.35 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(43.94) = 27.42 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(43.73) = 27.40 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(44.43) = 27.47 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(43.73) = 27.40 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.90) = 26.69 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(43.66) = 27.40 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(43.44) = 27.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(43.80) = 27.41 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(43.60) = 27.39 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(43.39) = 27.37 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5687.98) = 26.68 > 24\text{dBm}$

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	11.30	11.41	27.325	14.37	24.00	Pass
58	5290	11.31	11.33	27.104	14.33	24.00	Pass
106	5530	11.36	11.41	27.513	14.40	24.00	Pass
122	5610	11.31	11.39	27.293	14.36	24.00	Pass
138	5690 (For U-NII-2C)	10.71	10.88	24.022	13.81	24.00	Pass
138	5690 (For U-NII-3)	-4.89	-4.59	0.672	-1.73	30.00	Pass
155	5775	11.34	11.42	27.482	14.39	30.00	Pass

Note:

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

Chain 0

- $11\text{dBm} + 10\log(84.26) = 30.25 > 24\text{dBm}$
- $11\text{dBm} + 10\log(84.37) = 30.26 > 24\text{dBm}$
- $11\text{dBm} + 10\log(84.17) = 30.25 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5647.54) = 29.89 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(84.31) = 30.25 > 24\text{dBm}$
- $11\text{dBm} + 10\log(84.99) = 30.29 > 24\text{dBm}$
- $11\text{dBm} + 10\log(84.29) = 30.25 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5647.86) = 29.87 > 24\text{dBm}$

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 (U-NII-1 Band)	5250	8.12	7.31	12.257	10.88	24.00	Pass
*50 (U-NII-2A Band)	5250	8.12	7.69	12.765	11.06	24.00	Pass
114	5570	11.39	11.48	27.833	14.45	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(83.62) = 30.22 > 24\text{dBm}$
- $11\text{dBm} + 10\log(168.69) = 33.27 > 24\text{dBm}$

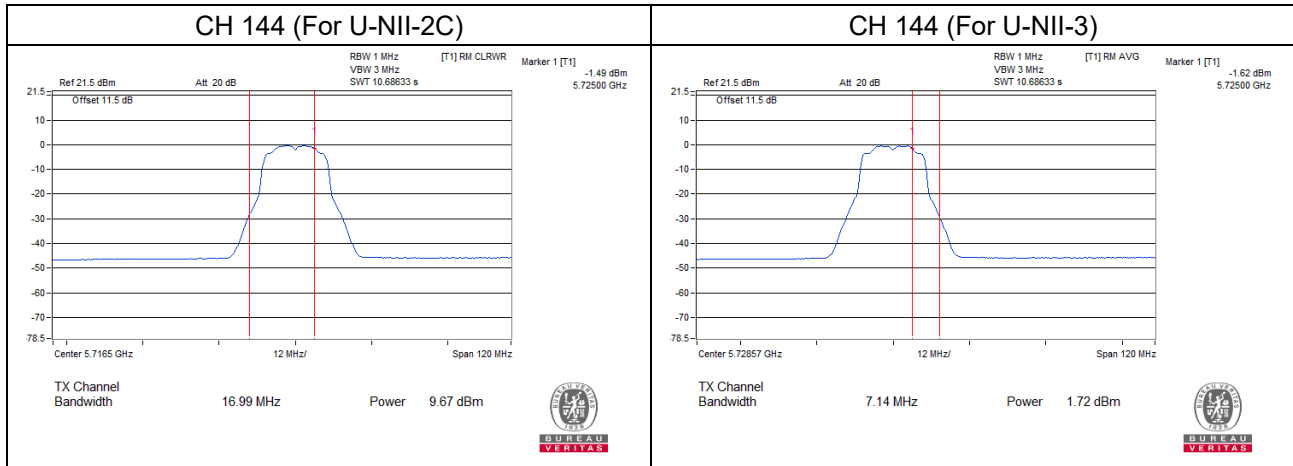
Chain 1

- $11\text{dBm} + 10\log(83.47) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(167.81) = 33.24 > 24\text{dBm}$

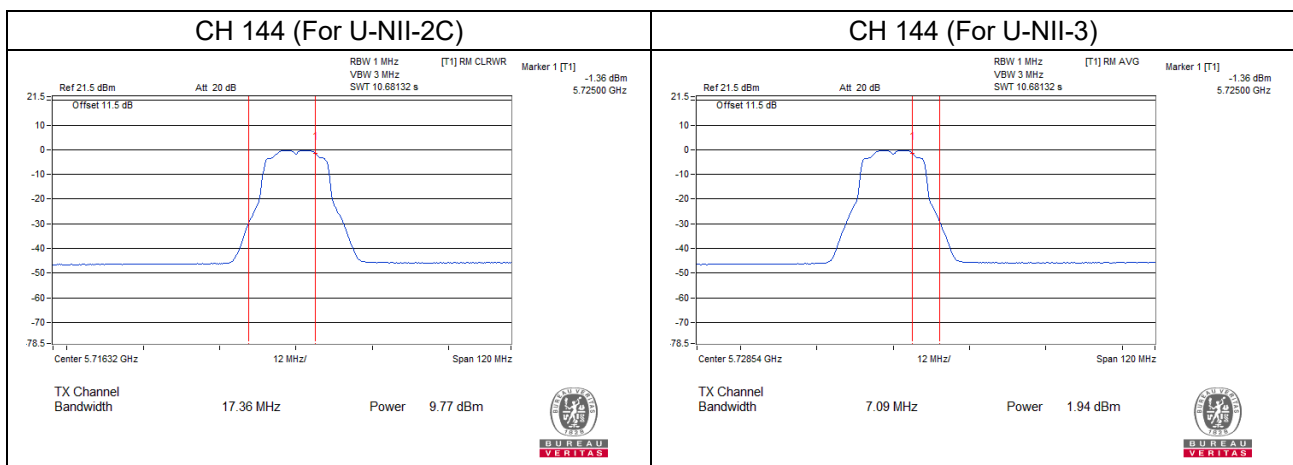
Straddle channel power plots:

802.11a

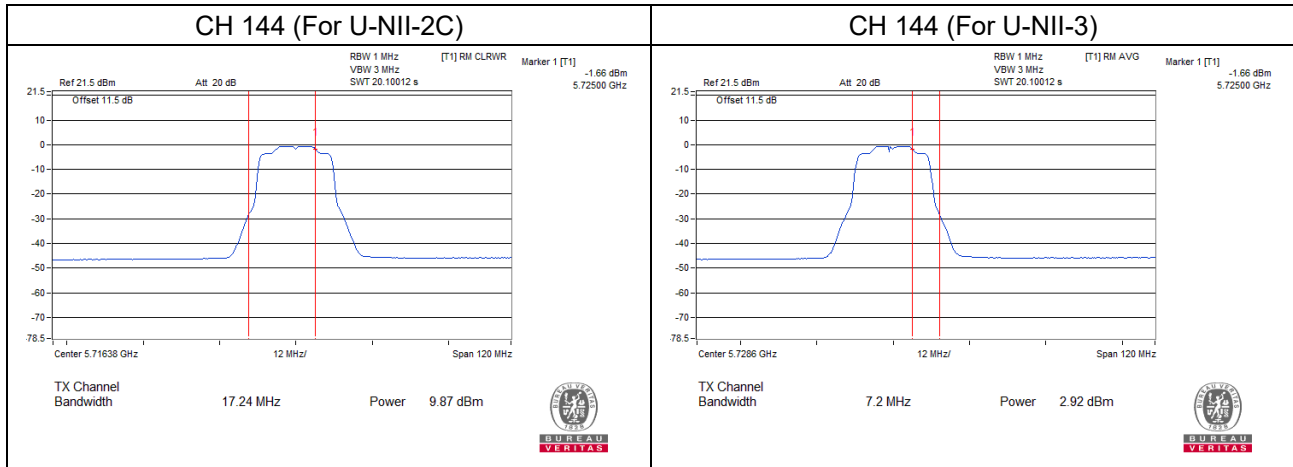
Chain 0



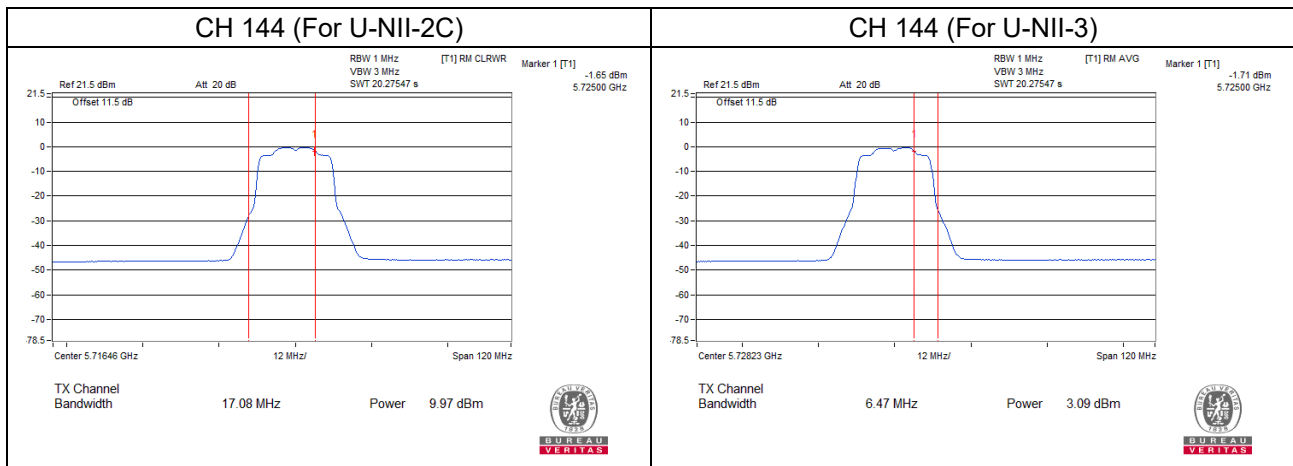
Chain 1



802.11ax (HE20)
Chain 0

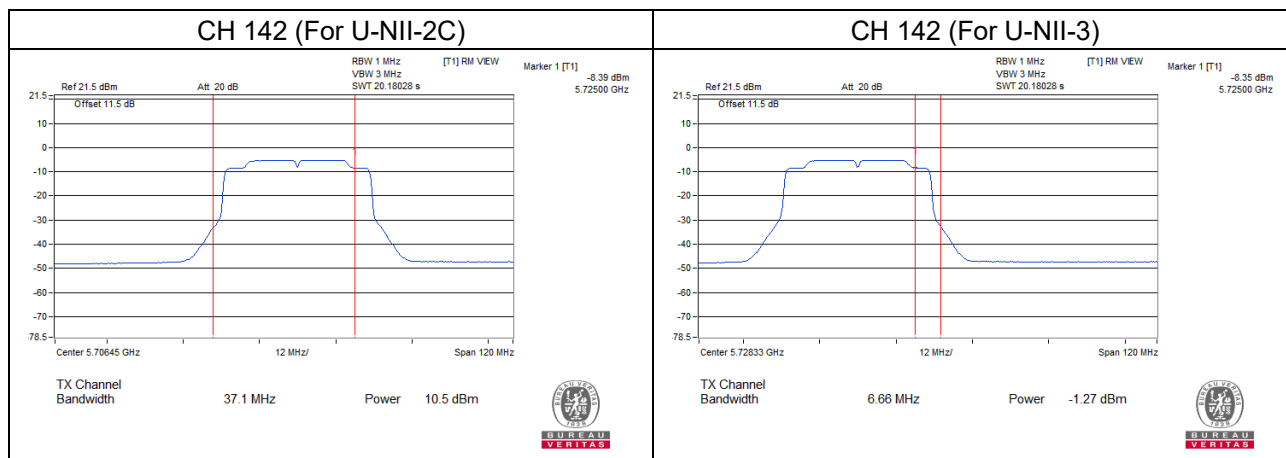


Chain 1

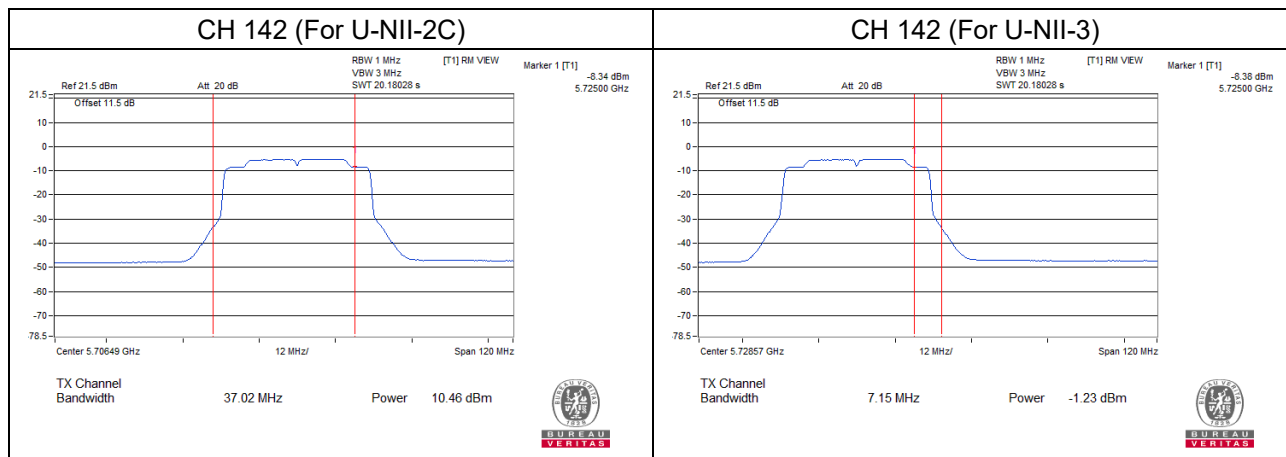


802.11ax (HE40)

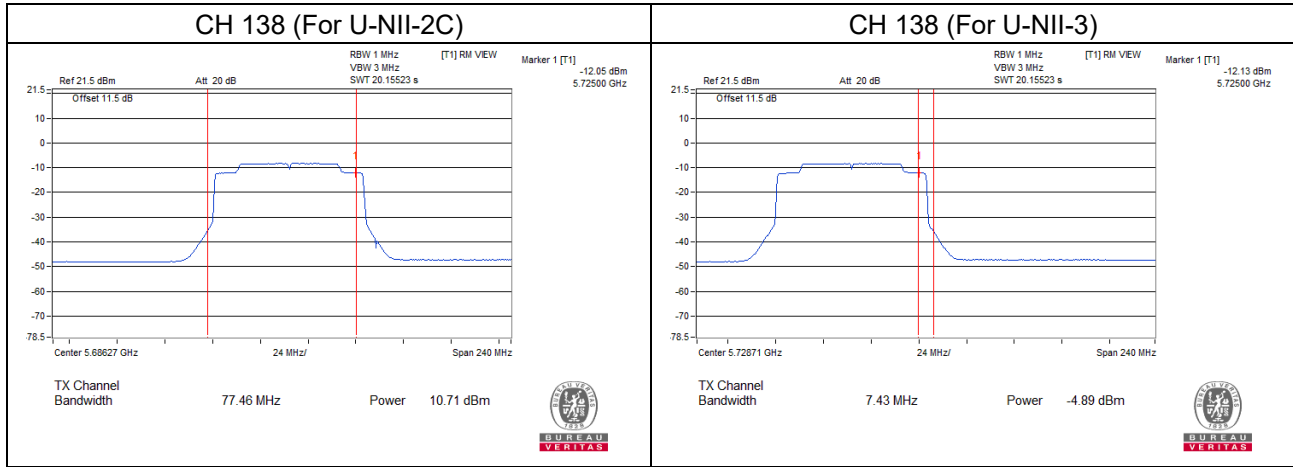
Chain 0



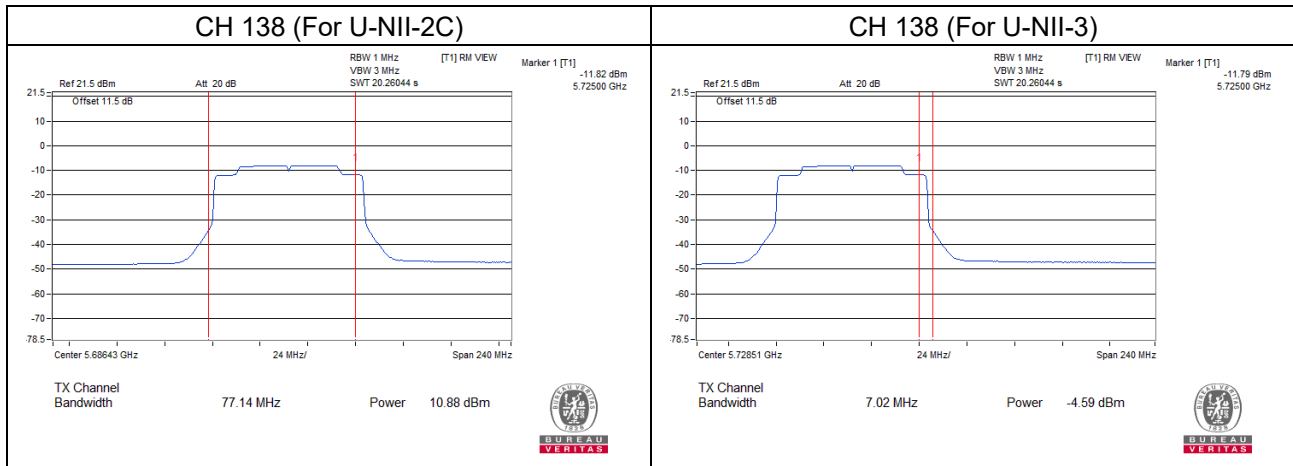
Chain 1



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	11.29	11.37	27.167	14.34	24.00	Pass
64	5320	11.16	11.41	26.897	14.30	24.00	Pass
100	5500	11.28	11.35	27.073	14.33	24.00	Pass
140	5700	11.36	11.38	27.418	14.38	24.00	Pass
149	5745	11.33	11.37	27.292	14.36	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.44) = 24.10 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.76) = 24.17 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.69) = 24.15 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.24) = 24.06 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.39) = 24.09 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.25) = 24.06 > 24\text{dBm}$

RU52

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.30	11.37	27.198	14.35	24.00	Pass
64	5320	11.18	11.41	26.958	14.31	24.00	Pass
100	5500	11.30	11.38	27.230	14.35	24.00	Pass
140	5700	11.36	11.41	27.513	14.40	24.00	Pass
149	5745	11.35	11.37	27.355	14.37	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(20.25) = 24.06 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.95) = 24.21 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.50) = 24.11 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.33) = 24.08 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.48) = 24.11 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.57) = 24.13 > 24\text{dBm}$

RU106

Chan.	Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	11.28	11.38	27.168	14.34	24.00	Pass
64	5320	11.15	11.40	26.836	14.29	24.00	Pass
100	5500	11.29	11.36	27.136	14.34	24.00	Pass
140	5700	11.36	11.40	27.481	14.39	24.00	Pass
149	5745	11.31	11.36	27.198	14.35	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(21.07) = 24.23 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.47) = 24.31 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.67) = 24.15 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.31) = 24.28 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.91) = 24.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.92) = 24.20 > 24\text{dBm}$

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	11.34	11.40	27.418	14.38	24.00	Pass
62	5310	11.33	11.42	27.451	14.39	24.00	Pass
102	5510	11.31	11.40	27.325	14.37	24.00	Pass
134	5670	11.40	11.42	27.671	14.42	24.00	Pass
151	5755	11.26	11.36	27.043	14.32	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(21.61) = 24.34 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(22.04) = 24.43 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.70) = 24.36 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.43) = 24.31 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.72) = 24.36 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.28) = 24.27 > 24\text{dBm}$

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	11.27	11.38	27.137	14.34	24.00	Pass
58	5290	11.28	11.30	26.917	14.30	24.00	Pass
106	5530	11.33	11.37	27.292	14.36	24.00	Pass
155	5775	11.31	11.38	27.261	14.36	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(47.38) = 27.75 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(47.02) = 27.72 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(45.70) = 27.59 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(46.26) = 27.65 > 24\text{dBm}$

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 (U-NII-1 Band)	5250	11.06	11.02	25.412	14.05	24.00	Pass
*50 (U-NII-2A Band)	5250	-26.37	-27.66	0.004	-23.96	24.00	Pass
114	5570	11.35	11.44	27.577	14.41	24.00	Pass

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(89.29) = 30.50 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(84.99) = 30.29 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(86.45) = 30.36 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(85.89) = 30.33 > 24\text{dBm}$

RU996S

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 (U-NII-1 Band)	5250	-26.10	-26.51	0.005	-23.29	24.00	Pass
*50 (U-NII-2A Band)	5250	11.20	11.23	26.457	14.23	17.95	Pass
114	5570	11.34	11.43	27.514	14.40	24.00	Pass

Note:

For U-NII-2A Band

Chain 0

1. $11\text{dBm} + 10\log(04.96) = 17.95 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(85.34) = 30.31 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(06.85) = 19.35 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(86.29) = 30.35 > 24\text{dBm}$

26dB Bandwidth:

1TX: Chain 0

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	24.42
60	5300	24.70
64	5320	24.42
100	5500	24.68
116	5580	24.32
140	5700	24.42
144	5720 (For U-NII-2C)	16.99

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

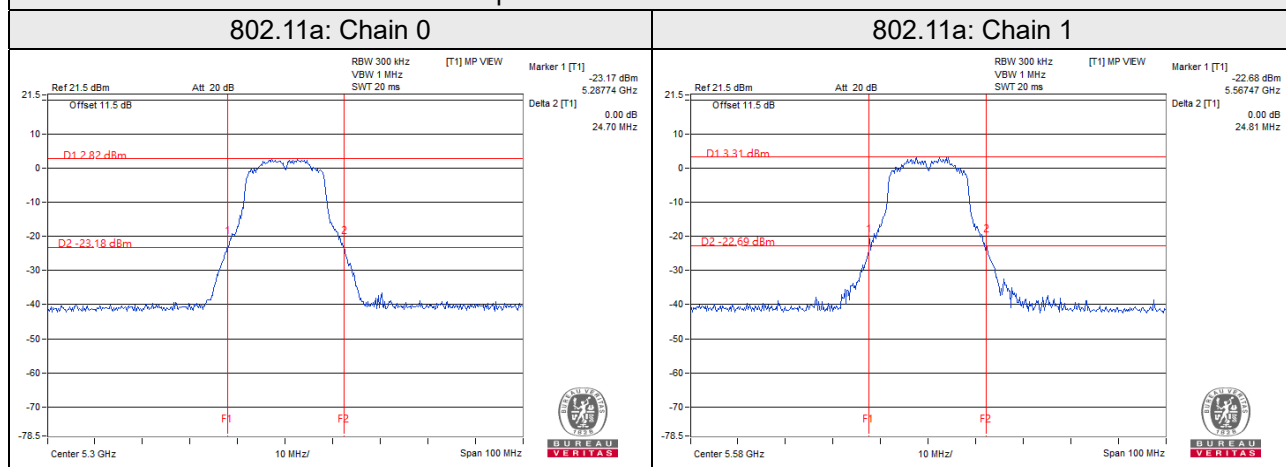
1TX: Chain 1

802.11a

Channel	Frequency (MHz)	26dBc Bandwidth (MHz)
52	5260	23.94
60	5300	24.16
64	5320	24.23
100	5500	23.88
116	5580	24.81
140	5700	24.22
144	5720 (For U-NII-2C)	17.36

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

Spectrum Plot of Worst Value



2TX

Full RU

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	23.50	24.34
60	5300	24.66	24.65
64	5320	23.69	24.81
100	5500	23.93	24.41
116	5580	24.81	24.60
140	5700	24.49	23.97
144	5720 (For U-NII-2C)	17.24	17.08

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	43.21	43.66
62	5310	43.94	43.44
102	5510	43.73	43.80
110	5550	44.43	43.60
134	5670	43.73	43.39
142	5710 (For U-NII-2C)	37.10	37.02

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

802.11ax (HE80)

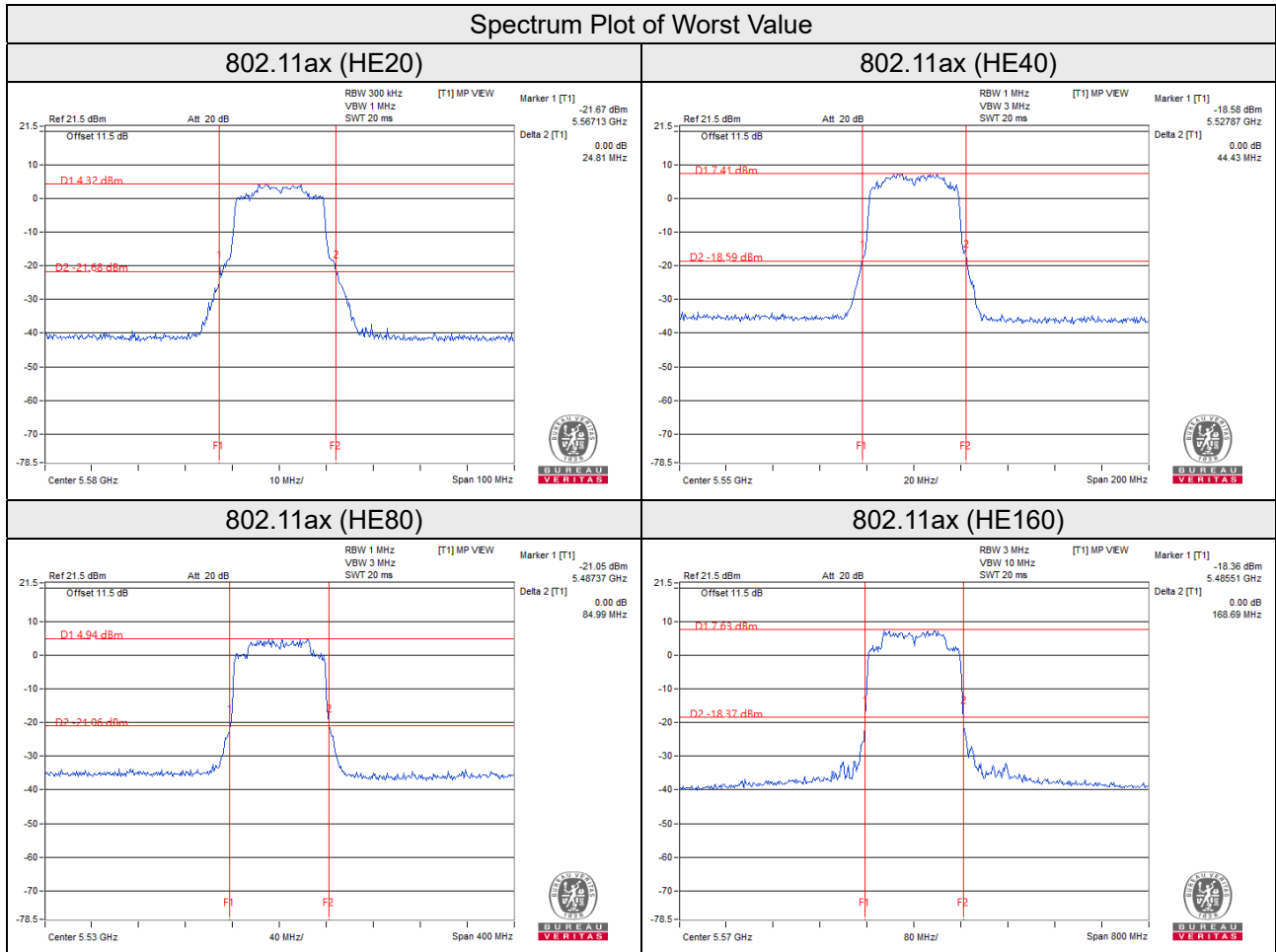
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	84.26	84.31
106	5530	84.37	84.99
122	5610	84.17	84.29
138	5690 (For U-NII-2C)	77.46	77.14

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 (U-NII-2A Band)	5250	83.62	83.47
114	5570	168.69	167.81

Spectrum Plot of Worst Value



Partial RU

2TX

RU26

802.11ax (HE20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	20.46	20.26
64	5320	20.44	20.24
100	5500	20.76	20.39
140	5700	20.69	20.25

RU52

802.11ax (HE20)

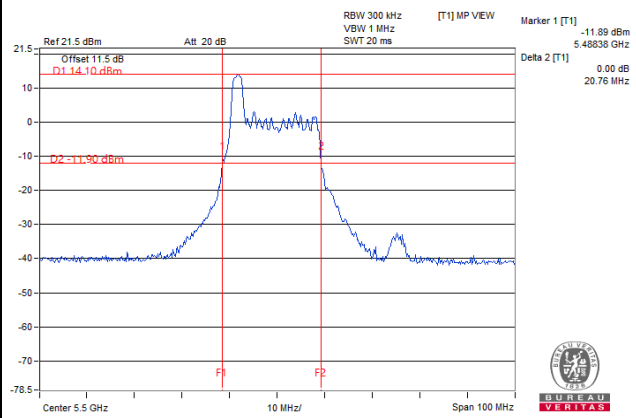
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	20.99	21.10
64	5320	20.25	20.33
100	5500	20.95	20.48
140	5700	20.50	20.57

RU106

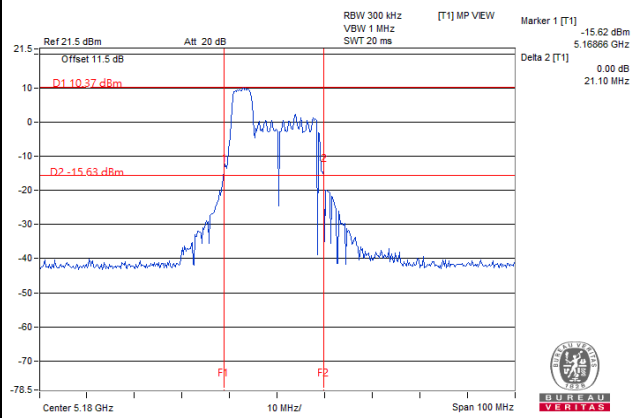
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	21.18	21.24
64	5320	21.07	21.31
100	5500	21.47	20.91
140	5700	20.67	20.92

Spectrum Plot of Worst Value

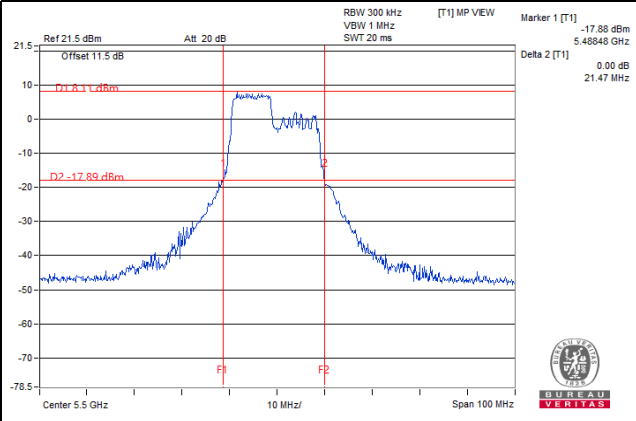
802.11ax (HE20) (RU26)



802.11ax (HE20) (RU52)



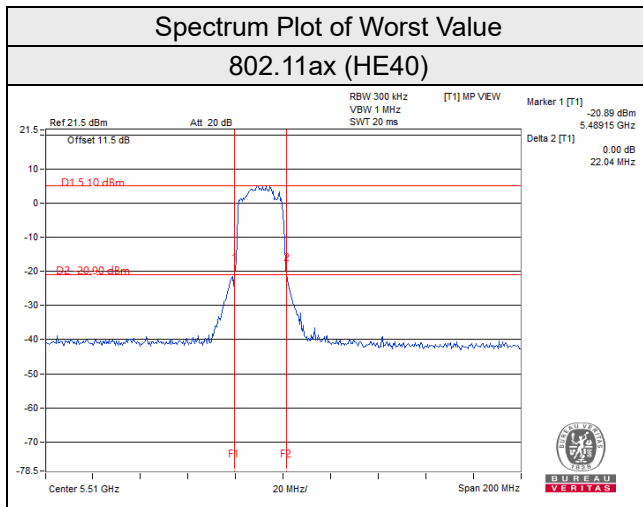
802.11ax (HE20) (RU106)



RU242

802.11ax (HE40)

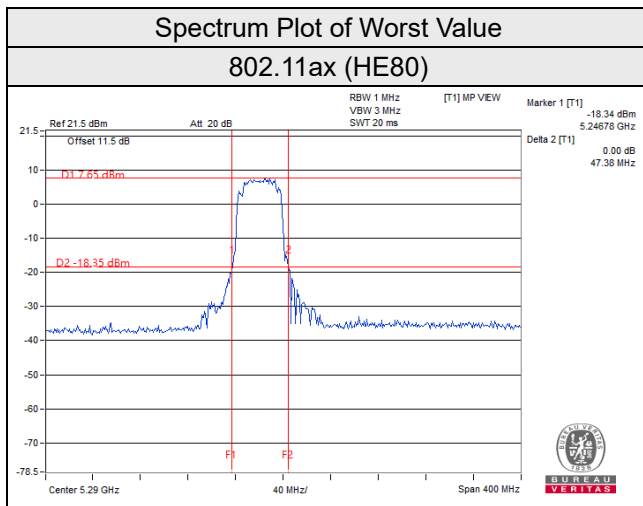
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	21.41	21.50
62	5310	21.61	21.43
102	5510	22.04	21.72
134	5670	21.70	21.28



RU484

802.11ax (HE80)

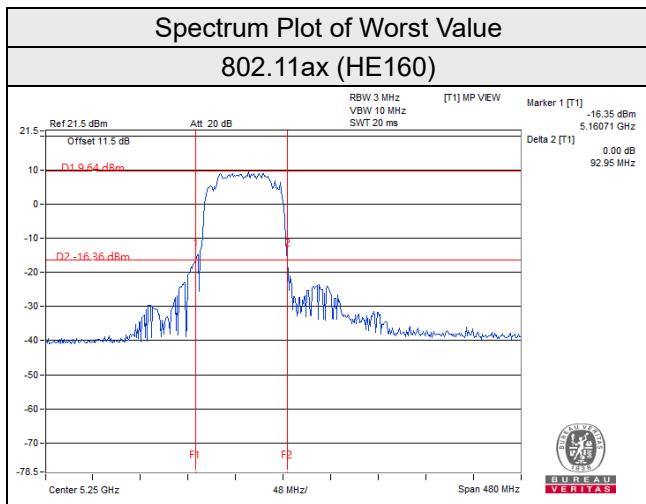
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	47.18	46.25
58	5290	47.38	45.70
106	5530	47.02	46.26



RU996

802.11ax (HE160)

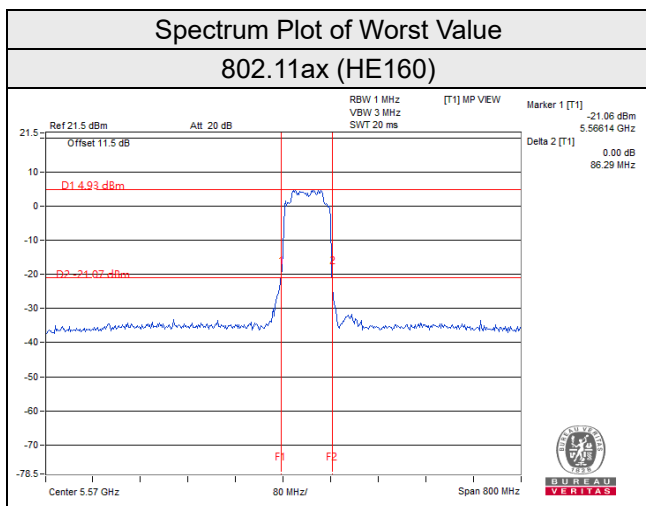
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-2A Band)	5250	89.29	86.45
114	5570	84.99	85.89



RU996S

802.11ax (HE160)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-2A Band)	5250	4.96	6.85
114	5570	85.34	86.29



EUT Average Power

1TX: Chain 0

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	13.490	11.30
5470~5725	13.428	11.28

1TX: Chain 1

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	13.964	11.45
5470~5725	13.836	11.41

2TX

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.135	14.34
5470~5725	27.545	14.40

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.356	14.37
5470~5725	27.767	14.44

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	26.579	14.25
5470~5725	27.261	14.36

802.11ac (VHT160)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	12.503	10.97
5470~5725	27.547	14.40

802.11ax (HE20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.513	14.40
5470~5725	27.672	14.42

802.11ax (HE40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.673	14.42
5470~5725	27.895	14.46

802.11ax (HE80)

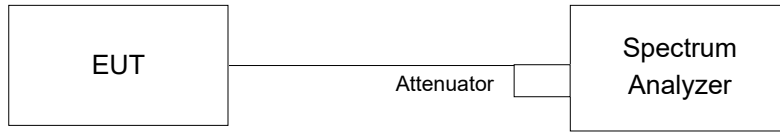
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	27.104	14.33
5470~5725	27.513	14.40

802.11ax (HE160)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	12.765	11.06
5470~5725	27.833	14.45

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

1TX: Chain 0

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	17.04
40	5200	16.92
48	5240	16.92
52	5260	16.92
60	5300	17.04
64	5320	16.92
100	5500	16.92
116	5580	16.92
140	5700	16.92
144	5720 (For U-NII-2C)	13.52
144	5720 (For U-NII-3)	3.40
149	5745	16.95
157	5785	17.04
165	5825	16.92

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

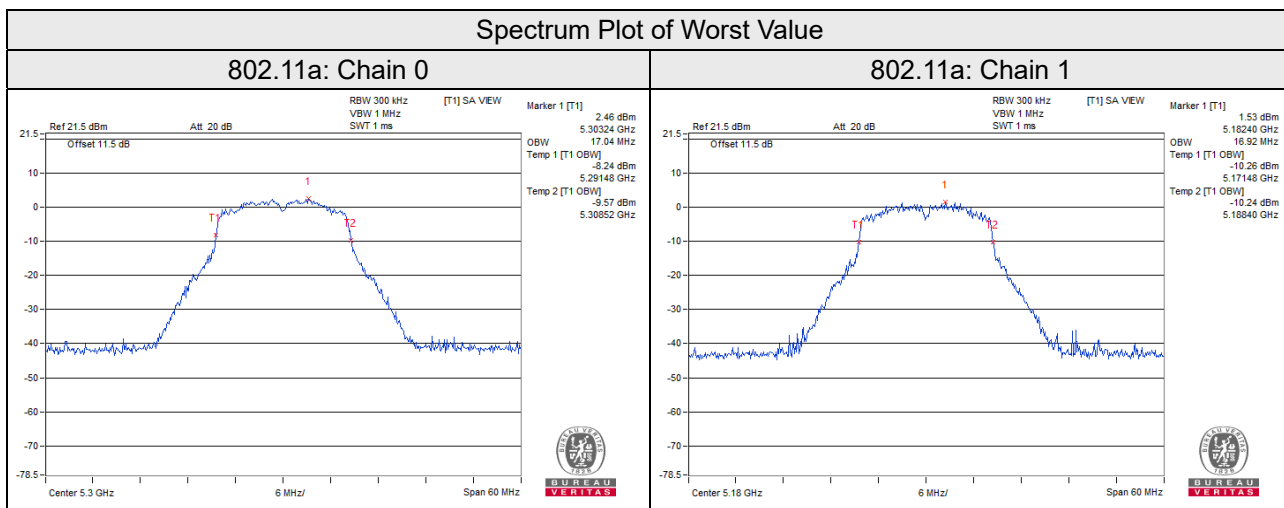
1TX: Chain 1

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.92
40	5200	16.92
48	5240	16.92
52	5260	16.80
60	5300	16.92
64	5320	16.92
100	5500	16.92
116	5580	16.92
140	5700	16.92
144	5720 (For U-NII-2C)	13.52
144	5720 (For U-NII-3)	3.40
149	5745	16.92
157	5785	16.92
165	5825	16.80

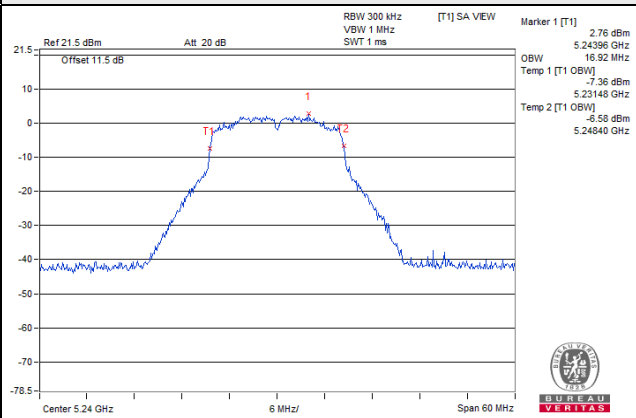
For CH144 (U-NII-2C Band): The Occupied bandwidth below 5725MHz = 5725MHz - Marker 1

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

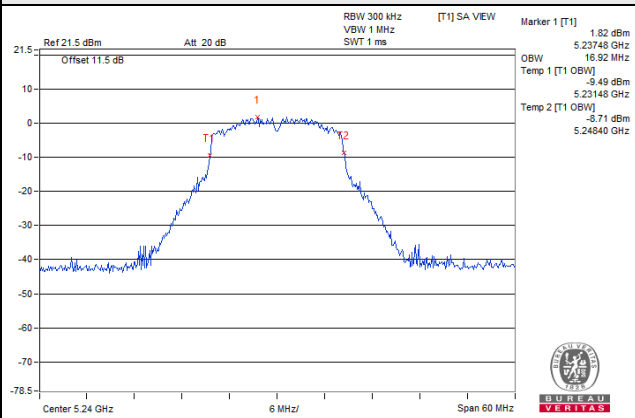


Spectrum Plot for near By DFS Band

802.11a / Chain 0 / CH 48

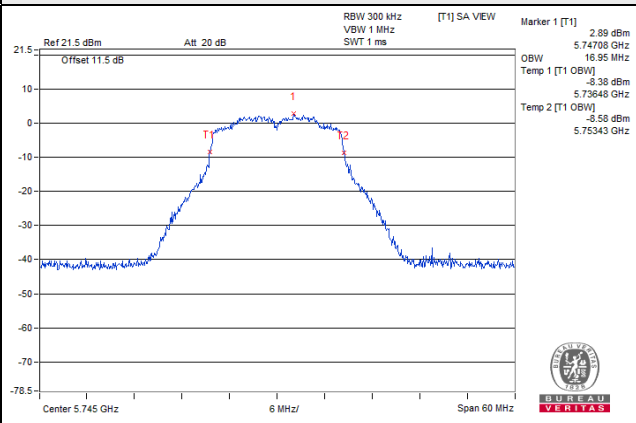


802.11a / Chain 0 / CH 48

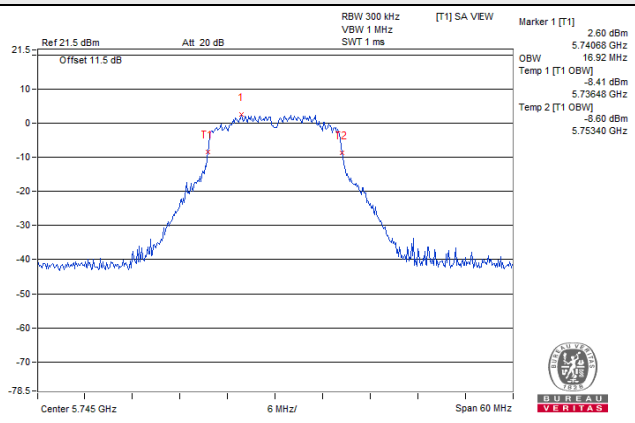


Spectrum Plot for near By DFS Band

802.11a / Chain 0 / CH 149



802.11a / Chain 1 / CH 149



2TX

Full RU

802.11ax (HE20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	19.08	18.84
40	5200	18.96	19.08
48	5240	19.08	19.08
52	5260	19.08	19.08
60	5300	18.96	18.96
64	5320	18.96	19.08
100	5500	19.08	19.08
116	5580	18.96	18.96
140	5700	18.96	18.96
144	5720 (For U-NII-2C)	14.48	14.60
144	5720 (For U-NII-3)	4.48	4.36
149	5745	18.96	19.08
157	5785	19.08	19.08
165	5825	18.84	18.96

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	37.68	37.80
46	5230	37.80	37.92
54	5270	37.80	37.92
62	5310	37.80	37.80
102	5510	37.68	37.80
110	5550	37.80	37.80
134	5670	37.92	37.80
142	5710 (For U-NII-2C)	33.96	33.96
142	5710 (For U-NII-3)	3.72	3.96
151	5755	37.80	37.80
159	5795	37.80	37.68

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	76.80	77.04
58	5290	77.04	76.80
106	5530	76.80	77.04
122	5610	77.04	76.80
138	5690 (For U-NII-2C)	73.40	73.40
138	5690 (For U-NII-3)	3.40	3.40
155	5775	76.80	76.80

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

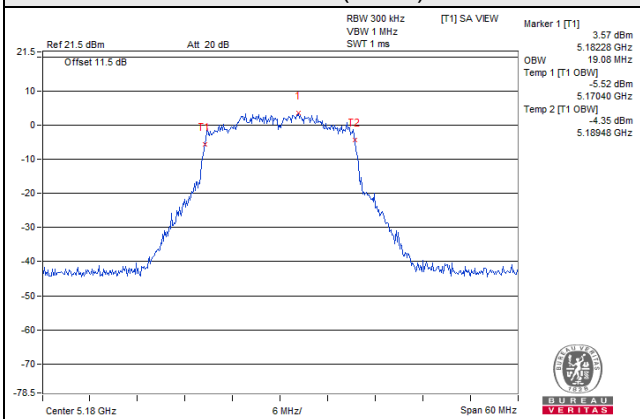
For CH138 (UNII-3 Band): The Occupied bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

802.11ax (HE160)

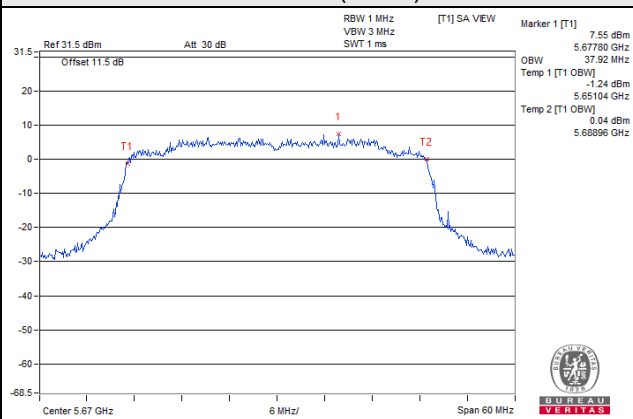
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
50 (U-NII-1 Band)	5250	77.76	76.80
50 (U-NII-2A Band)	5250	77.76	77.76
114	5570	155.13	155.52

Spectrum Plot of Worst Value

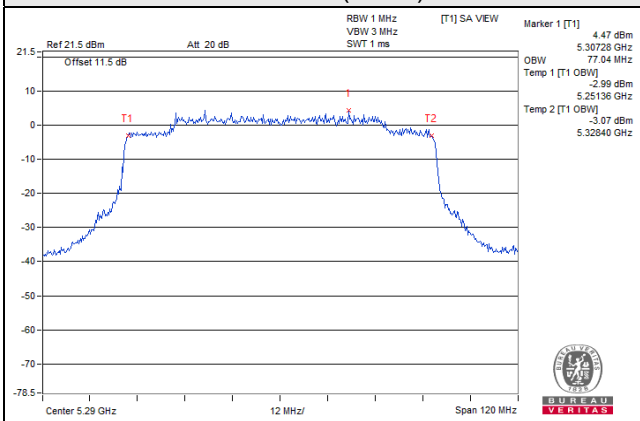
802.11ax (HE20)



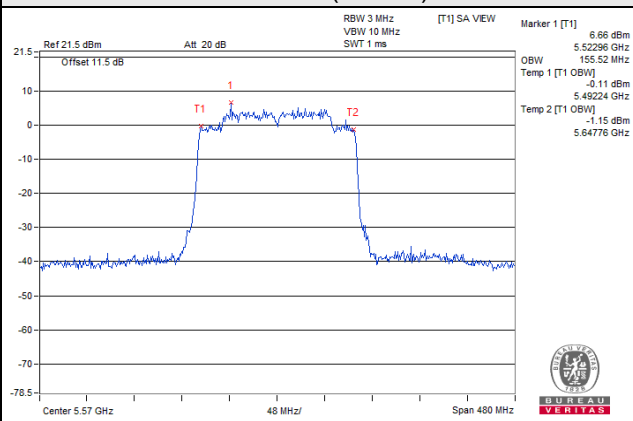
802.11ax (HE40)



802.11ax (HE80)

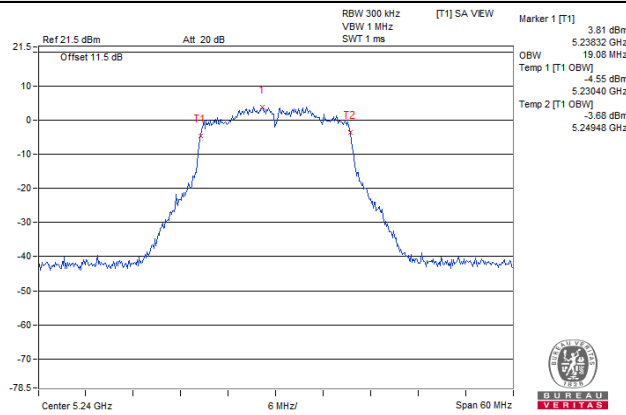


802.11ax (HE160)

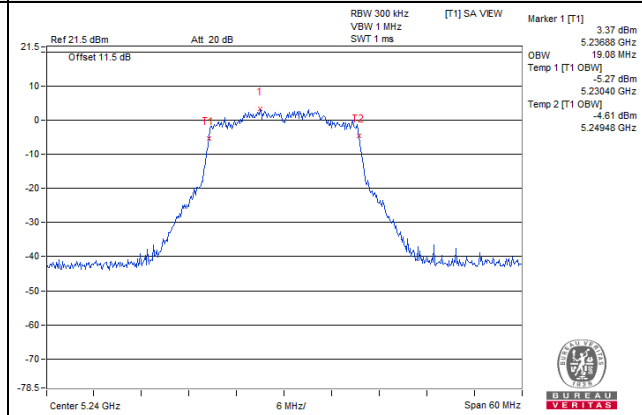


Spectrum Plot for near By DFS Band

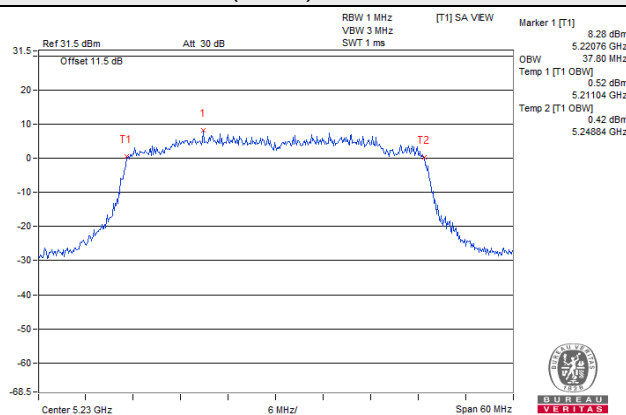
802.11ax (HE20) / Chain 0 / CH 48



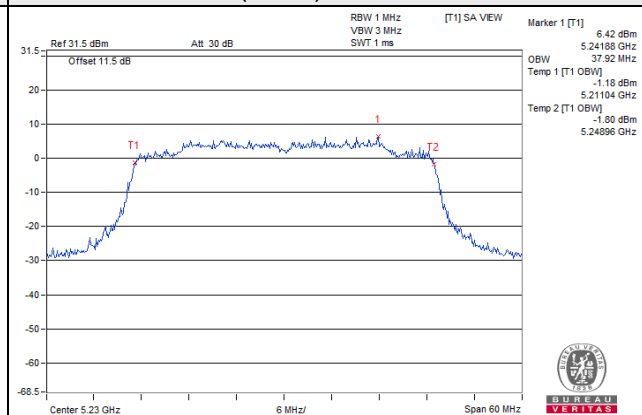
802.11ax (HE20) / Chain 1 / CH 48



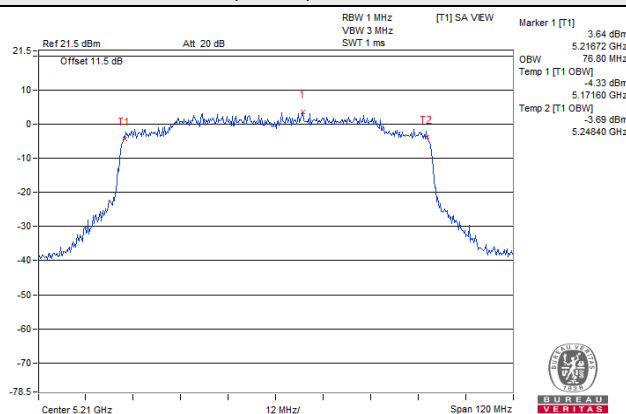
802.11ax (HE40) / Chain 0 / CH 46



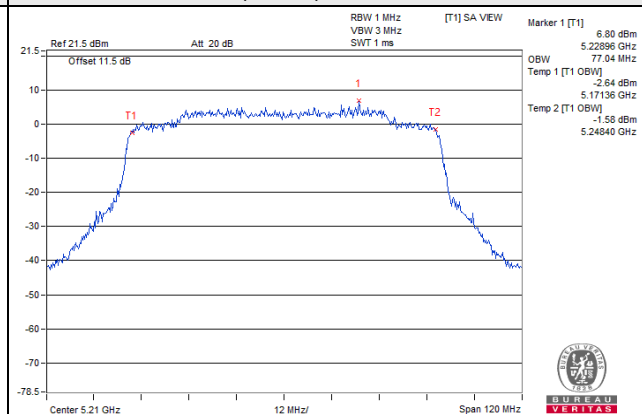
802.11ax (HE40) / Chain 1 / CH 46



802.11ax (HE80) / Chain 0 / CH 42

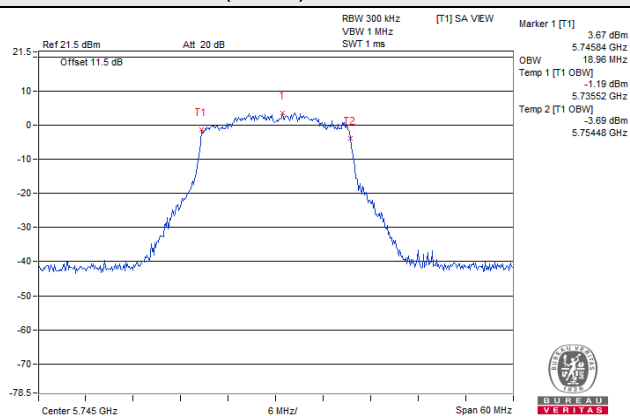


802.11ax (HE80) / Chain 1 / CH 42

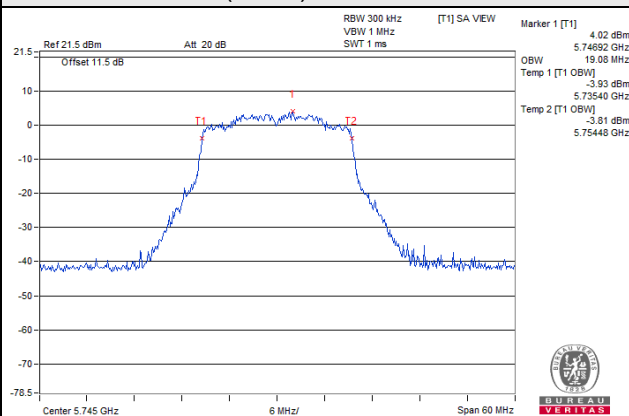


Spectrum Plot for near By DFS Band

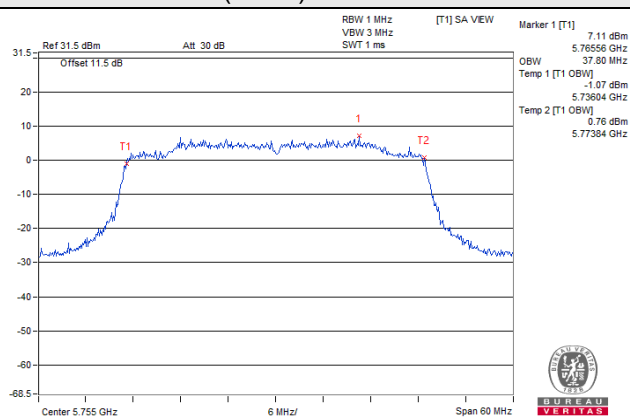
802.11ax (HE20) / Chain 0 / CH 149



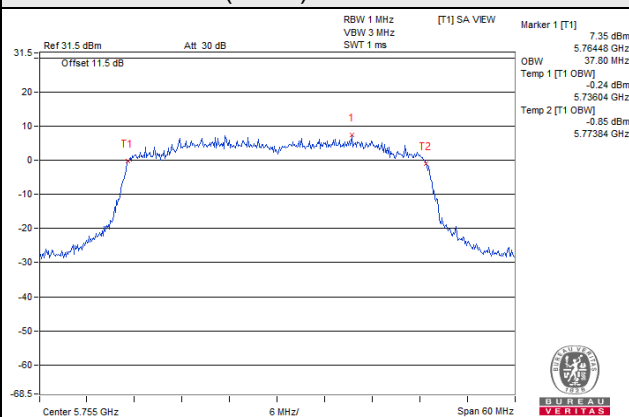
802.11ax (HE20) / Chain 1 / CH 149



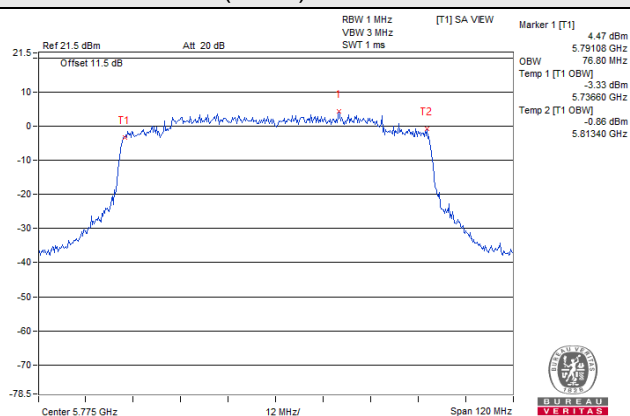
802.11ax (HE40) / Chain 0 / CH 151



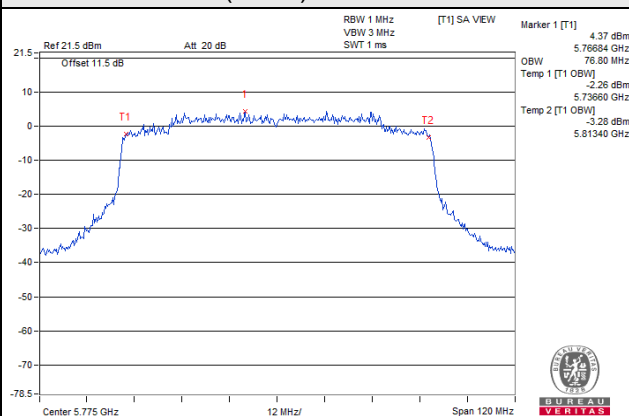
802.11ax (HE40) / Chain 1 / CH 151



802.11ax (HE80) / Chain 0 / CH 155



802.11ax (HE80) / Chain 1 / CH 155

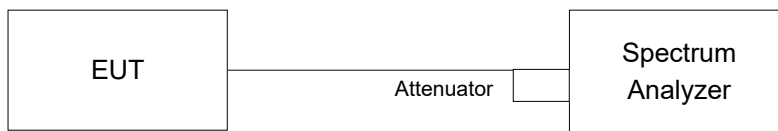


4.5 Peak Power Spectral Density Measurement

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 \geq 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 \geq 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:

1TX: Chain 0

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
36	5180	-1.98	0.11	-1.87	11.00	Pass
40	5200	-2.01	0.11	-1.90	11.00	Pass
48	5240	-1.95	0.11	-1.84	11.00	Pass
52	5260	-1.98	0.11	-1.87	11.00	Pass
60	5300	-1.90	0.11	-1.79	11.00	Pass
64	5320	-1.96	0.11	-1.85	11.00	Pass
100	5500	-2.03	0.11	-1.92	11.00	Pass
116	5580	-2.08	0.11	-1.97	11.00	Pass
140	5700	-1.95	0.11	-1.84	11.00	Pass
144	5720 (For U-NII-2C)	-2.01	0.11	-1.90	11.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.

1TX: Chain 1

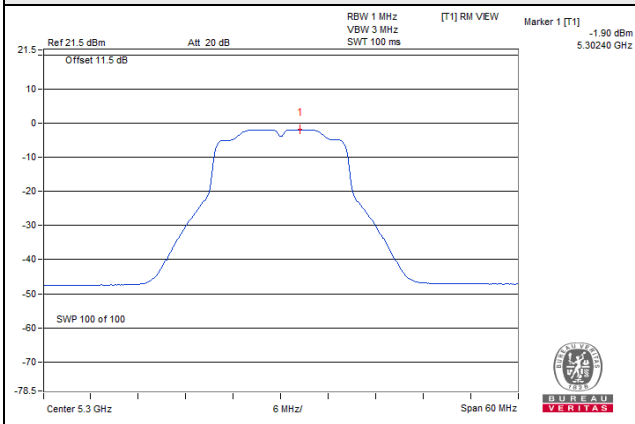
802.11a

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
36	5180	-2.01	0.12	-1.89	11.00	Pass
40	5200	-1.88	0.12	-1.76	11.00	Pass
48	5240	-2.09	0.12	-1.97	11.00	Pass
52	5260	-2.03	0.12	-1.91	11.00	Pass
60	5300	-2.08	0.12	-1.96	11.00	Pass
64	5320	-1.91	0.12	-1.79	11.00	Pass
100	5500	-1.84	0.12	-1.72	11.00	Pass
116	5580	-2.08	0.12	-1.96	11.00	Pass
140	5700	-1.94	0.12	-1.82	11.00	Pass
144	5720 (For U-NII-2C)	-1.95	0.12	-1.83	11.00	Pass

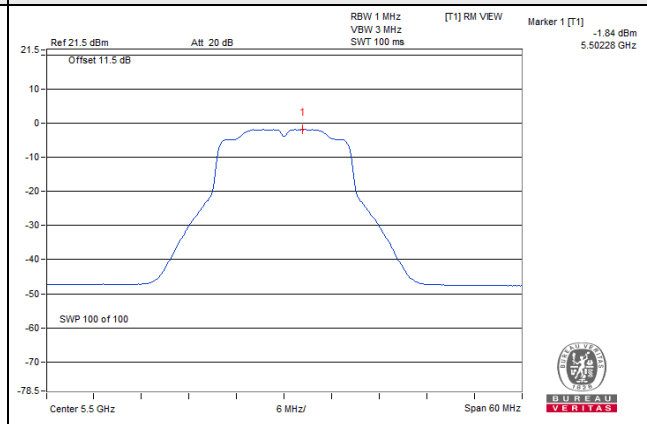
Note: Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

802.11a: Chain 0



802.11a: Chain 1



For U-NII-3 band:

1TX: Chain 0

802.11a

Chan.	Freq. (MHz)	PSD		Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
144	5720 (For U-NII-3)	-11.85	-9.63	0.11	-9.52	30.00	Pass
149	5745	-10.36	-8.14	0.11	-8.03	30.00	Pass
157	5785	-10.36	-8.14	0.11	-8.03	30.00	Pass
165	5825	-10.38	-8.16	0.11	-8.05	30.00	Pass

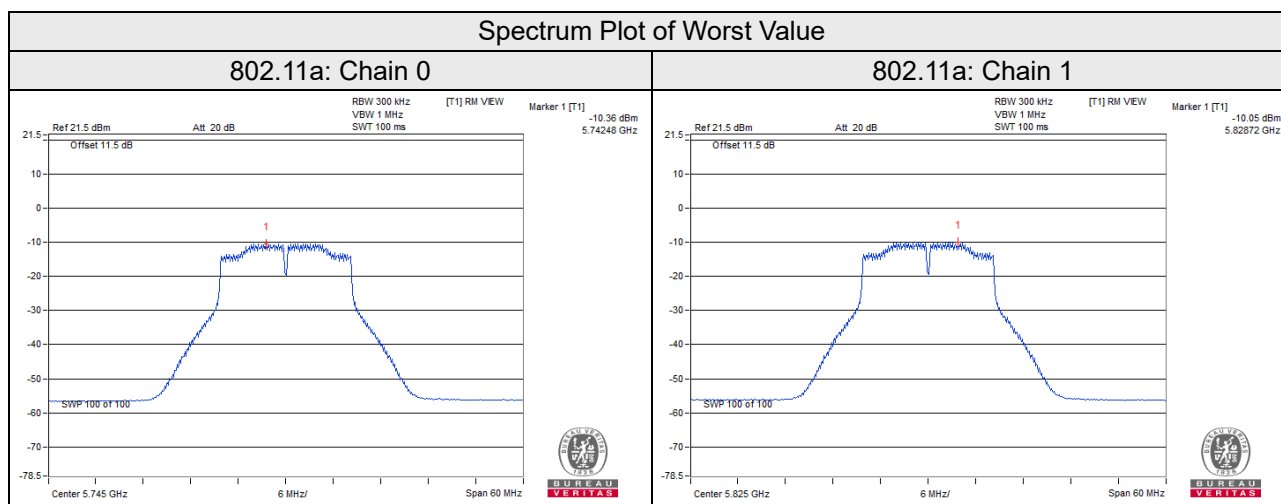
Note: Refer to section 3.3 for duty cycle spectrum plot.

1TX: Chain 1

802.11a

Chan.	Freq. (MHz)	PSD		Duty Factor (dB)	Total PSD with Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		(dBm/300kHz)	(dBm/500kHz)				
144	5720 (For U-NII-3)	-11.76	-9.54	0.12	-9.42	30.00	Pass
149	5745	-10.27	-8.05	0.12	-7.93	30.00	Pass
157	5785	-10.13	-7.91	0.12	-7.79	30.00	Pass
165	5825	-10.05	-7.83	0.12	-7.71	30.00	Pass

Note: Refer to section 3.3 for duty cycle spectrum plot.



Full RU

2TX

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

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-2.02	-1.90	1.05	11.00	Pass
40	5200	-2.15	-1.82	1.03	11.00	Pass
48	5240	-2.01	-2.10	0.96	11.00	Pass
52	5260	-2.03	-2.11	0.94	11.00	Pass
60	5300	-1.91	-2.11	1.00	11.00	Pass
64	5320	-2.00	-1.86	1.08	11.00	Pass
100	5500	-2.06	-1.85	1.06	11.00	Pass
116	5580	-2.12	-2.07	0.92	11.00	Pass
140	5700	-1.93	-2.04	1.03	11.00	Pass
144	5720 (For U-NII-2C)	-1.96	-1.98	1.04	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-5.20	-5.13	0.09	-2.06	10.84	Pass
46	5230	-5.17	-5.27	0.09	-2.12	10.84	Pass
54	5270	-5.20	-5.11	0.09	-2.05	11.00	Pass
62	5310	-5.10	-5.03	0.09	-1.96	11.00	Pass
102	5510	-5.24	-5.31	0.09	-2.17	11.00	Pass
110	5550	-5.22	-5.57	0.09	-2.29	11.00	Pass
134	5670	-5.31	-5.44	0.09	-2.27	11.00	Pass
142	5710 (For U-NII-2C)	-5.46	-5.46	0.09	-2.36	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-8.39	-8.23	-5.30	11.00	Pass
58	5290	-8.17	-8.10	-5.12	11.00	Pass
106	5530	-8.15	-8.07	-5.10	11.00	Pass
122	5610	-8.22	-8.18	-5.19	11.00	Pass
138	5690 (For U-NII-2C)	-8.25	-8.14	-5.18	11.00	Pass

Note:

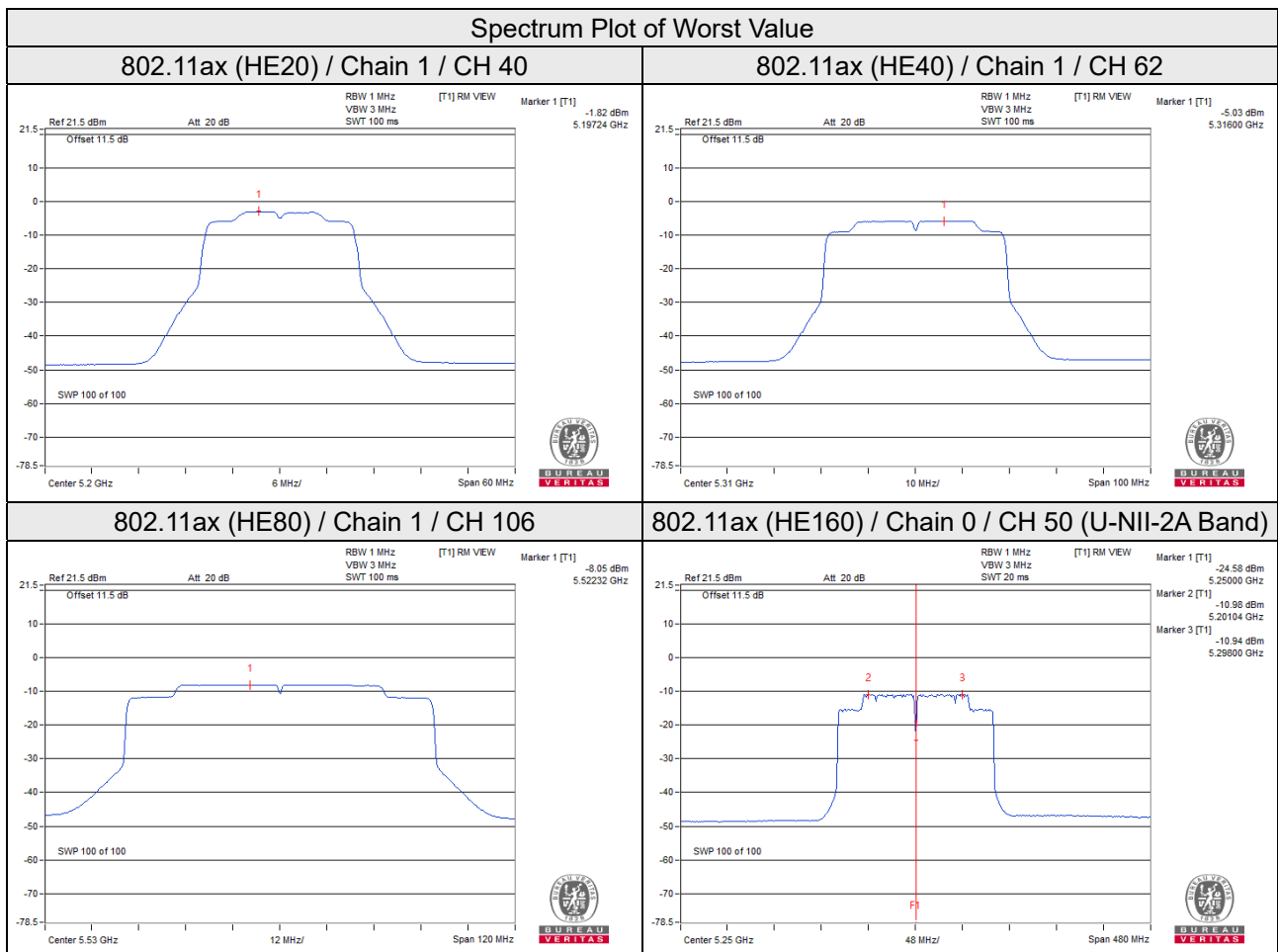
- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- 5180-5240MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE160)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
50 (U-NII-1 Band)	5250	-11.05	-11.73	0.14	-8.23	10.84	Pass
50 (U-NII-2A Band)	5250	-10.95	-11.29	0.14	-7.97	10.84	Pass
114	5570	-11.05	-10.96	0.14	-7.85	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: Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G^1/20} + 10^{G^2/20} + \dots + 10^{G^N/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		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)	-12.19	-9.97	3.01	-6.96	30.00	Pass
	149	5745	-11.17	-8.95	3.01	-5.94	30.00	Pass
	157	5785	-11.18	-8.96	3.01	-5.95	30.00	Pass
	165	5825	-11.22	-9.00	3.01	-5.99	30.00	Pass
1	144	5720 (For U-NII-3)	-12.22	-10.00	3.01	-6.99	30.00	Pass
	149	5745	-11.11	-8.89	3.01	-5.88	30.00	Pass
	157	5785	-11.13	-8.91	3.01	-5.90	30.00	Pass
	165	5825	-11.15	-8.93	3.01	-5.92	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710 (For U-NII-3)	-17.67	-15.45	3.01	0.09	-12.35	30.00	Pass
	151	5755	-14.59	-12.37	3.01	0.09	-9.27	30.00	Pass
	159	5795	-14.58	-12.36	3.01	0.09	-9.26	30.00	Pass
1	142	5710 (For U-NII-3)	-17.72	-15.50	3.01	0.09	-12.40	30.00	Pass
	151	5755	-14.64	-12.42	3.01	0.09	-9.32	30.00	Pass
	159	5795	-14.55	-12.33	3.01	0.09	-9.23	30.00	Pass

Note:

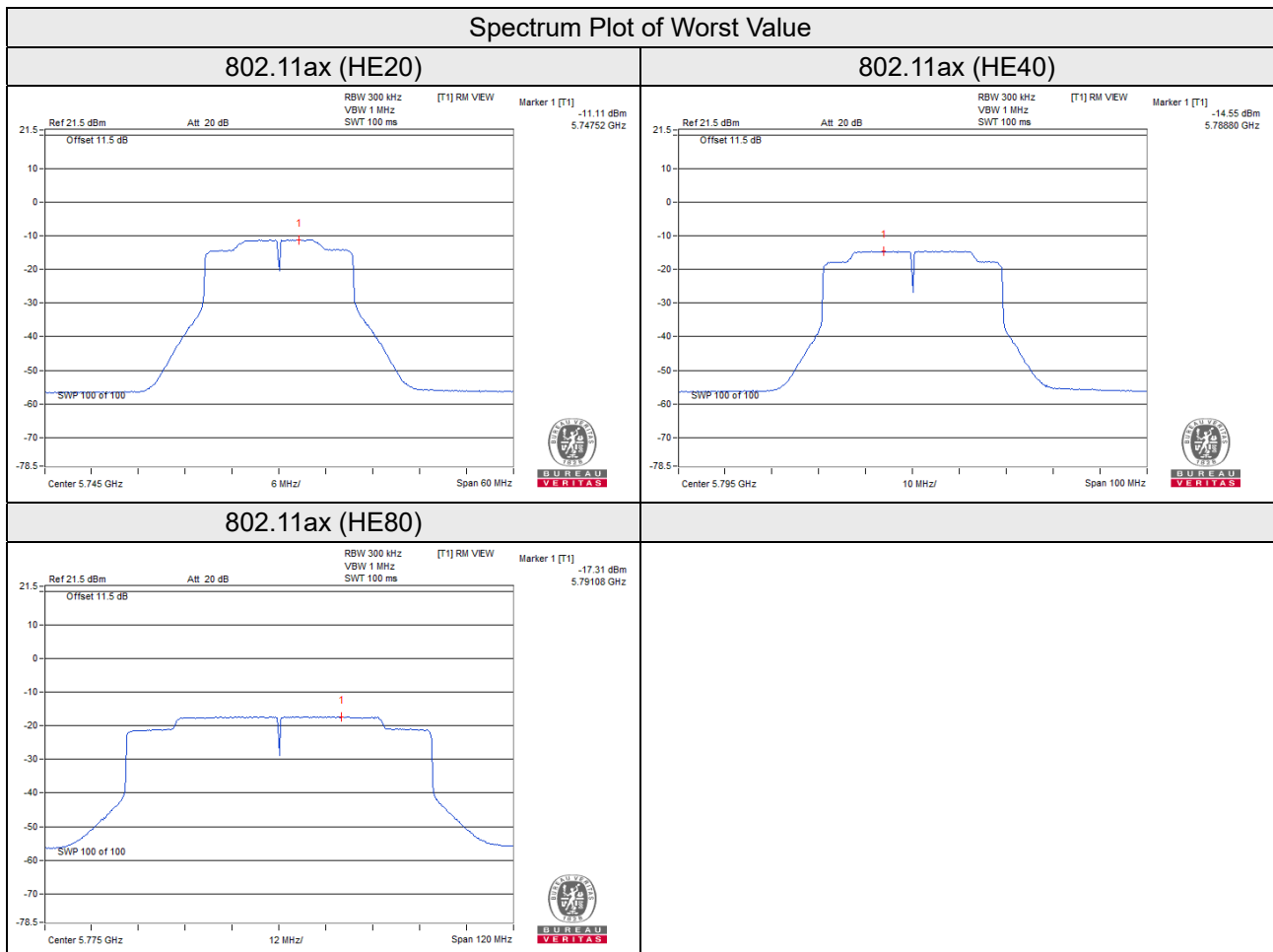
- Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
- Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	138	5690 (For U-NII-3)	-21.25	-19.03	3.01	-16.02	30.00	Pass
	155	5775	-17.38	-15.16	3.01	-12.15	30.00	Pass
1	138	5690 (For U-NII-3)	-21.04	-18.82	3.01	-15.81	30.00	Pass
	155	5775	-17.31	-15.09	3.01	-12.08	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



**Partial RU
RU26**

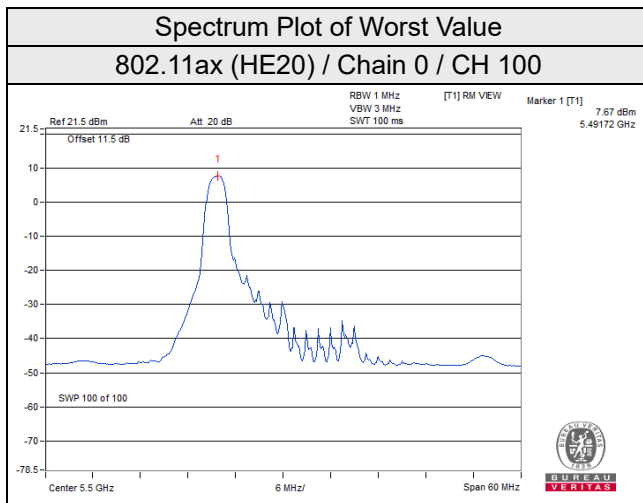
For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	7.20	7.15	10.19	11.00	Pass
64	5320	7.55	7.38	10.48	11.00	Pass
100	5500	7.67	7.58	10.64	11.00	Pass
140	5700	7.37	7.33	10.36	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



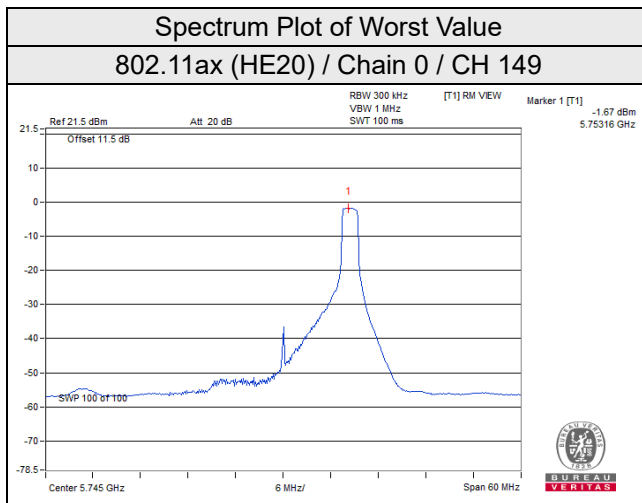
For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-1.67	0.55	3.01	3.56	30	Pass
1	149	5745	-2.55	-0.33	3.01	2.68	30	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU52

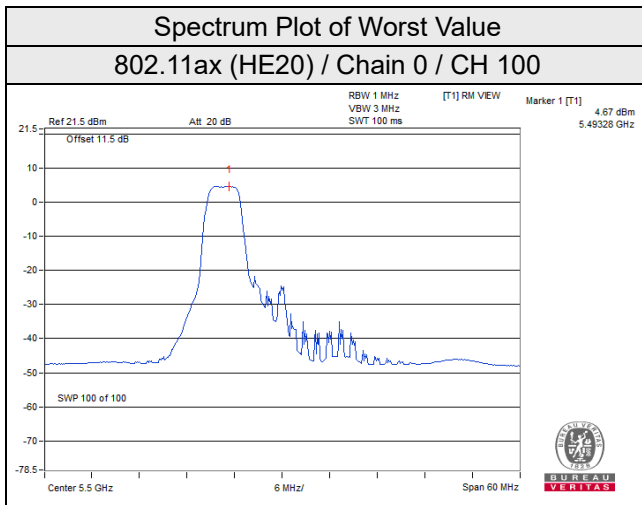
For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	4.19	4.17	7.19	11.00	Pass
64	5320	4.47	4.36	7.43	11.00	Pass
100	5500	4.66	4.65	7.67	11.00	Pass
140	5700	4.33	4.34	7.35	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



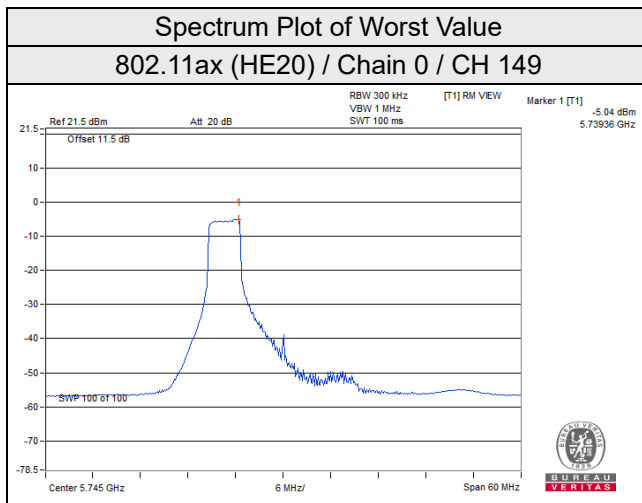
For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-5.04	-2.82	3.01	0.19	30.00	Pass
1	149	5745	-5.15	-2.93	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU106

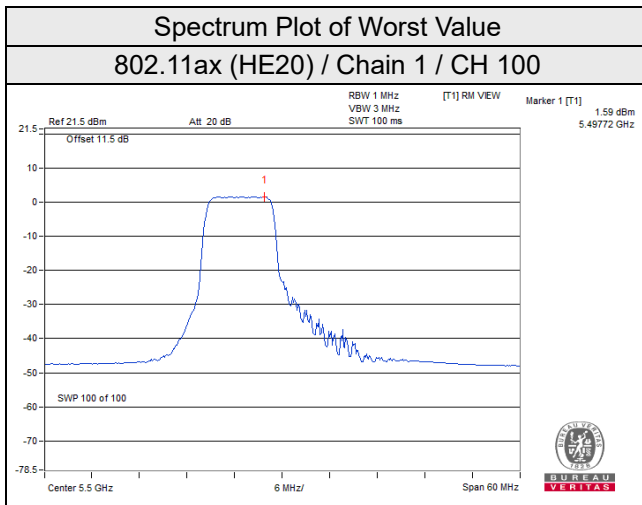
For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	1.13	1.14	4.15	11.00	Pass
64	5320	1.46	1.29	4.39	11.00	Pass
100	5500	1.26	1.59	4.44	11.00	Pass
140	5700	1.23	1.37	4.31	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



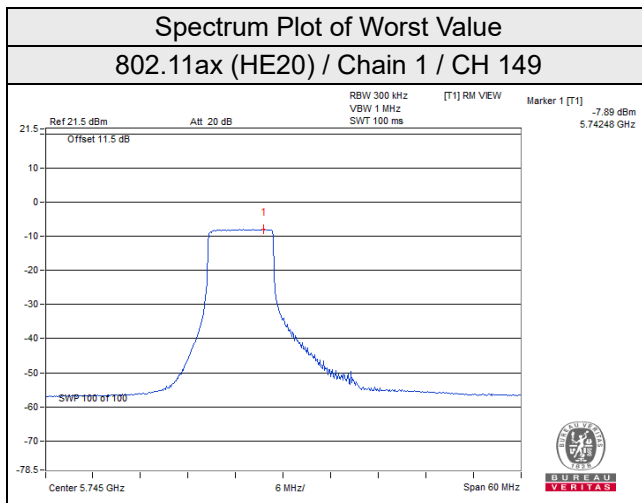
For U-NII-3 band:

802.11ax (HE20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	149	5745	-7.97	-5.75	3.01	-2.74	30.00	Pass
1	149	5745	-7.89	-5.67	3.01	-2.66	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU242

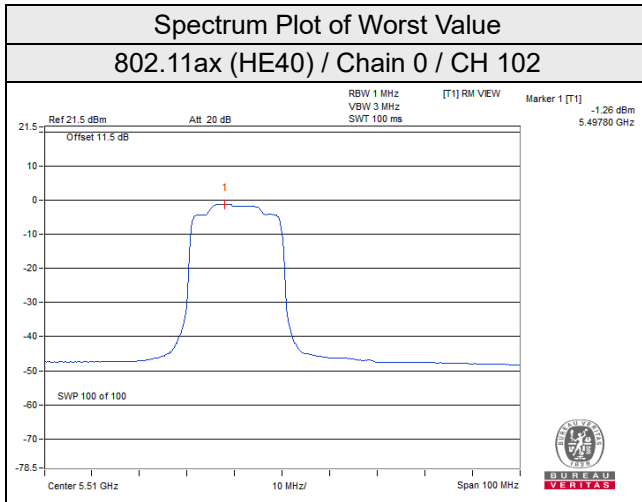
For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
38	5190	-1.62	-1.58	1.41	11.00	Pass
62	5310	-1.53	-1.56	1.47	11.00	Pass
102	5510	-1.28	-1.29	1.73	11.00	Pass
134	5670	-1.55	-1.47	1.50	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



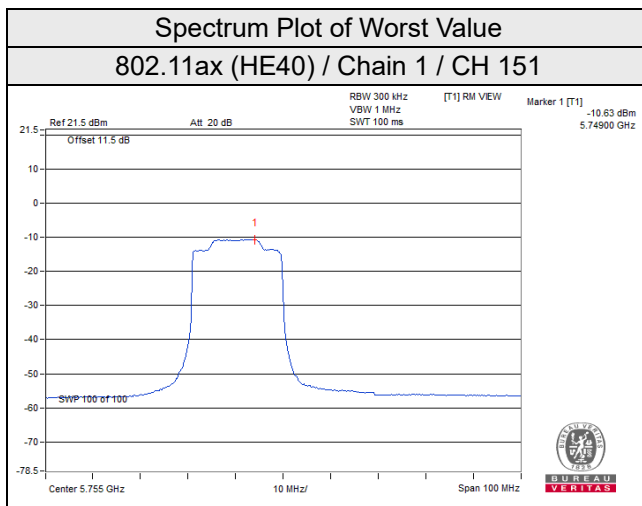
For U-NII-3 band:

802.11ax (HE40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	151	5755	-10.68	-8.46	3.01	-5.45	30.00	Pass
1	151	5755	-10.63	-8.41	3.01	-5.40	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU486

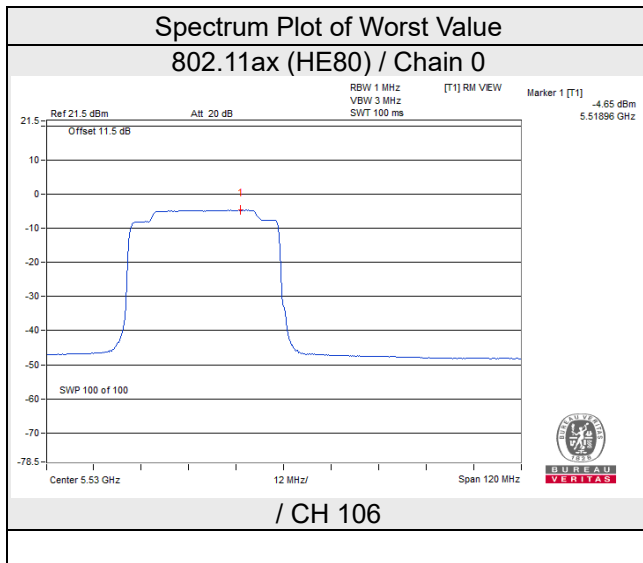
For U-NII-1, U-NII-2A and U-NII-2C band:

802.11ax (HE80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
42	5210	-5.02	-4.91	-1.95	11.00	Pass
58	5290	-4.96	-4.89	-1.91	11.00	Pass
106	5530	-4.65	-4.69	-1.63	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 = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.21\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5260-5320MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5500-5720MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



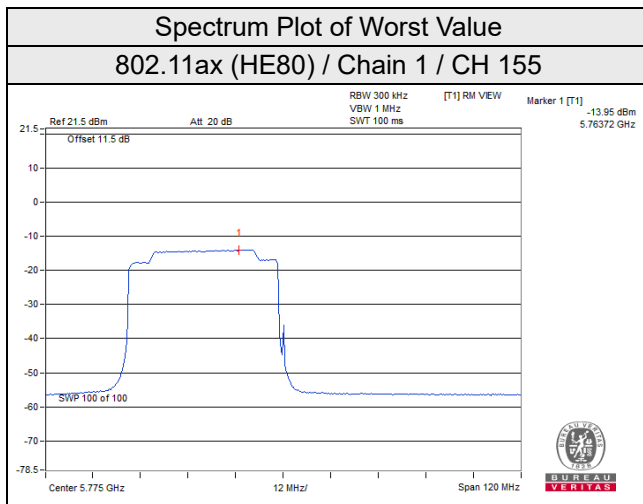
For U-NII-3 band:

802.11ax (HE80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	155	5775	-14.00	-11.78	3.01	-8.77	30.00	Pass
1	155	5775	-13.95	-11.73	3.01	-8.72	30.00	Pass

Note:

1. 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.
2. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 4.81\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU996

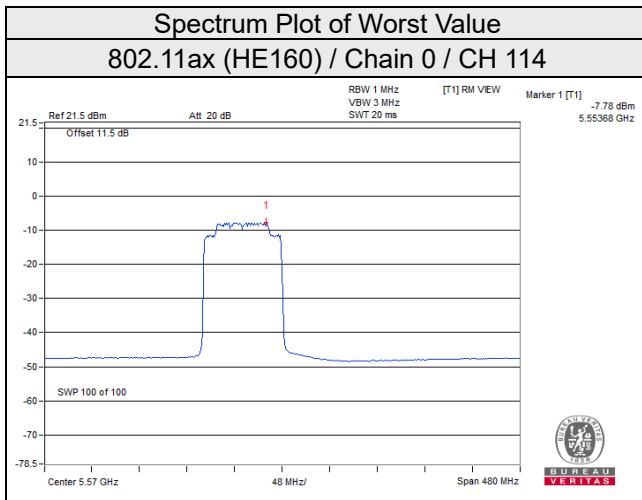
For U-NII-1, U-NII-2A and U-NII-2C band:

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 (U-NII-1 Band)	5250	-7.99	-8.09	-5.03	11.00	Pass
50 (U-NII-2A Band)	5250	-29.83	-29.30	-26.55	11.00	Pass
114	5570	-7.78	-7.87	-4.81	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: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.87\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.



RU996S

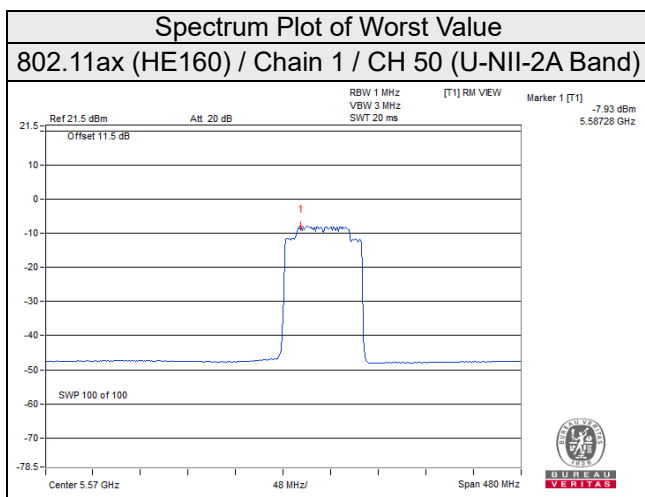
For U-NII-1, U-NII-2A and U-NII-2C band:

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 (U-NII-1 Band)	5250	-28.72	-29.52	-26.09	11.00	Pass
50 (U-NII-2A Band)	5250	-8.01	-7.99	-4.99	11.00	Pass
114	5570	-8.01	-8.08	-5.03	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: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.58\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.
- 5570MHz: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2/2] = 5.79\text{dBi} < 6\text{dBi}$, so the limit no need to reduced.

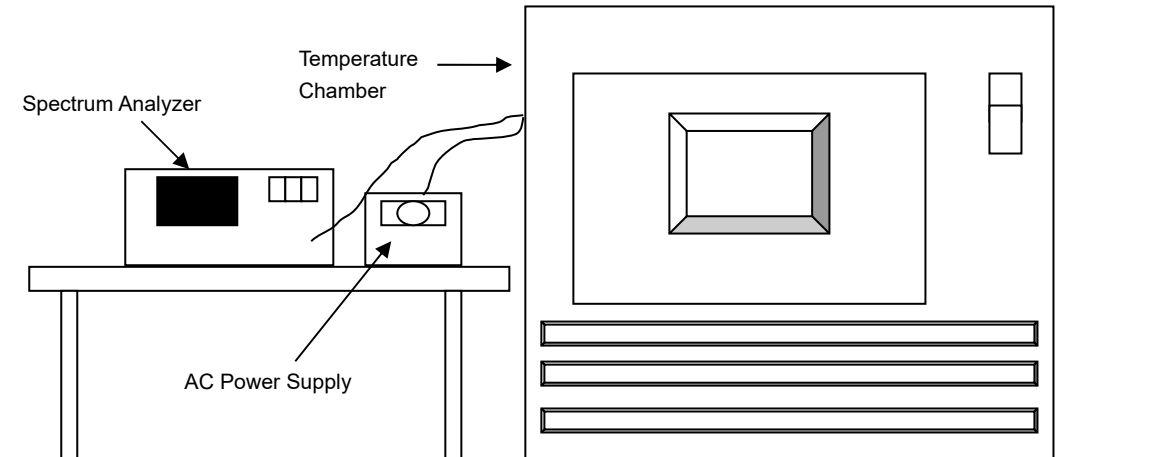


4.6 Frequency Stability

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 Extch	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.

4.6.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC 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: Chain 0

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
55	120	5179.9835	Pass	5179.9842	Pass	5179.9838	Pass	5179.9833	Pass
50	120	5180.0156	Pass	5180.0125	Pass	5180.0156	Pass	5180.0143	Pass
40	120	5180.0215	Pass	5180.0255	Pass	5180.0225	Pass	5180.0257	Pass
30	120	5180.0167	Pass	5180.0215	Pass	5180.0171	Pass	5180.0179	Pass
20	120	5180.0113	Pass	5180.0108	Pass	5180.0119	Pass	5180.0085	Pass
10	120	5180.0252	Pass	5180.0266	Pass	5180.0233	Pass	5180.0248	Pass
0	120	5180.0006	Pass	5180.0054	Pass	5180.0024	Pass	5180.0042	Pass
-10	120	5179.9879	Pass	5179.9863	Pass	5179.9890	Pass	5179.9890	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	138	5180.0154	Pass	5180.0150	Pass	5180.0156	Pass	5180.0141	Pass
	120	5180.0113	Pass	5180.0108	Pass	5180.0119	Pass	5180.0085	Pass
	102	5180.0062	Pass	5180.0071	Pass	5180.0048	Pass	5180.0051	Pass

802.11a: Chain 1

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
55	120	5180.0058	Pass	5180.0068	Pass	5180.0069	Pass	5180.0059	Pass
50	120	5179.9822	Pass	5179.9856	Pass	5179.9858	Pass	5179.9844	Pass
40	120	5179.9772	Pass	5179.9787	Pass	5179.9795	Pass	5179.9778	Pass
30	120	5180.0053	Pass	5180.0038	Pass	5180.0039	Pass	5180.0028	Pass
20	120	5179.9840	Pass	5179.9872	Pass	5179.9834	Pass	5179.9858	Pass
10	120	5179.9969	Pass	5179.9946	Pass	5179.9988	Pass	5179.9944	Pass
0	120	5180.0220	Pass	5180.0234	Pass	5180.0214	Pass	5180.0216	Pass
-10	120	5180.0058	Pass	5180.0068	Pass	5180.0069	Pass	5180.0059	Pass

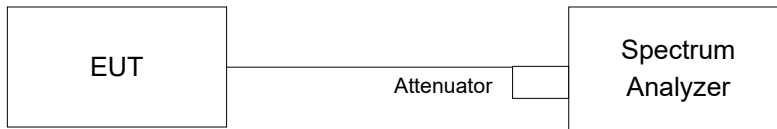
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9896	Pass	5179.9891	Pass	5179.9860	Pass	5179.9866	Pass
	120	5179.9840	Pass	5179.9872	Pass	5179.9834	Pass	5179.9858	Pass
	102	5179.9892	Pass	5179.9878	Pass	5179.9884	Pass	5179.9917	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

1TX: Chain 0

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (For U-NII-3)	2.55	0.5	Pass
149	5745	15.16	0.5	Pass
157	5785	15.19	0.5	Pass
165	5825	15.16	0.5	Pass

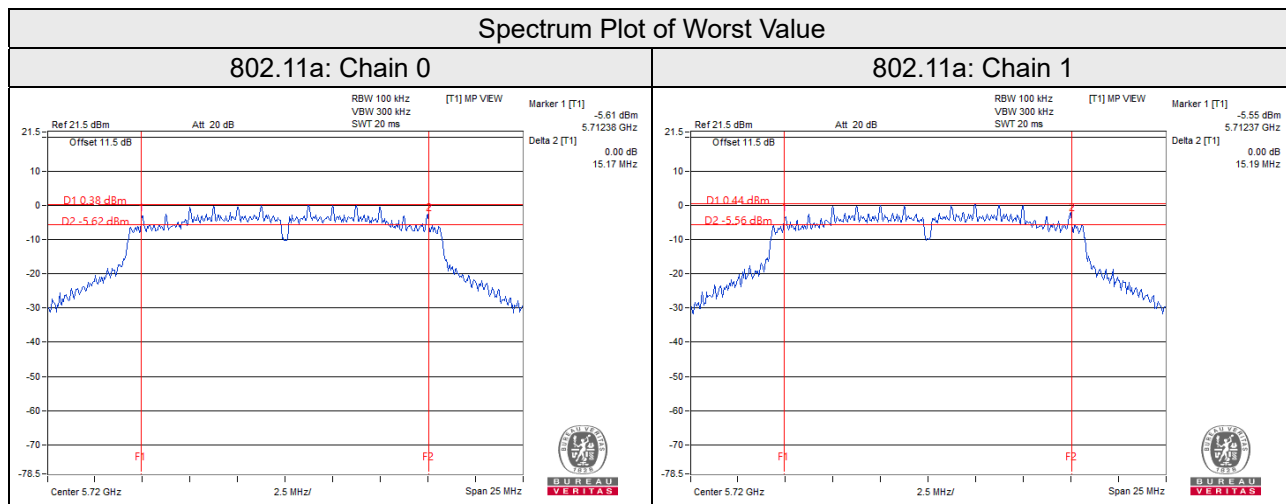
For CH144 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

1TX: Chain 1

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
144	5720 (For U-NII-3)	2.56	0.5	Pass
149	5745	15.73	0.5	Pass
157	5785	15.18	0.5	Pass
165	5825	15.19	0.5	Pass

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



Full RU
2TX

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144	5720 (For U-NII-3)	2.59	2.54	0.5	Pass
149	5745	16.42	15.37	0.5	Pass
157	5785	15.47	15.88	0.5	Pass
165	5825	16.96	16.28	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)	3.03	3.14	0.5	Pass
151	5755	34.67	35.21	0.5	Pass
159	5795	35.10	35.13	0.5	Pass

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

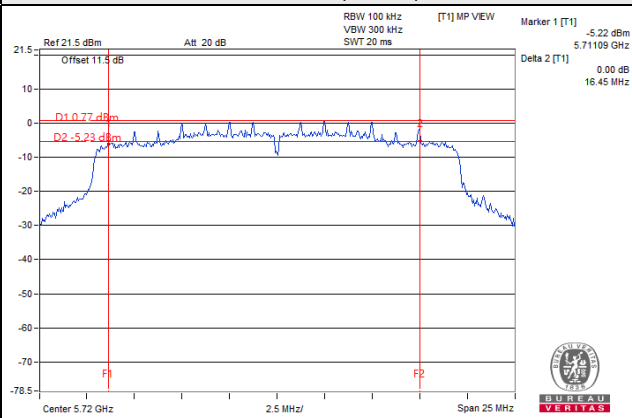
802.11ax (HE80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138	5690 (For U-NII-3)	1.42	1.45	0.5	Pass
155	5775	72.72	71.48	0.5	Pass

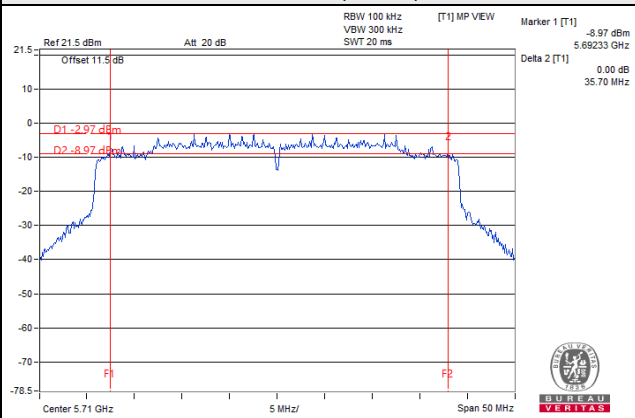
For CH138 (U-NII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

Spectrum Plot of Worst Value

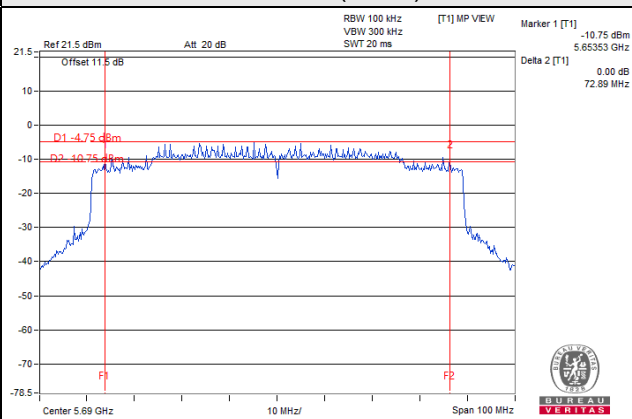
802.11ax (HE20)



802.11ax (HE40)



802.11ax (HE80)



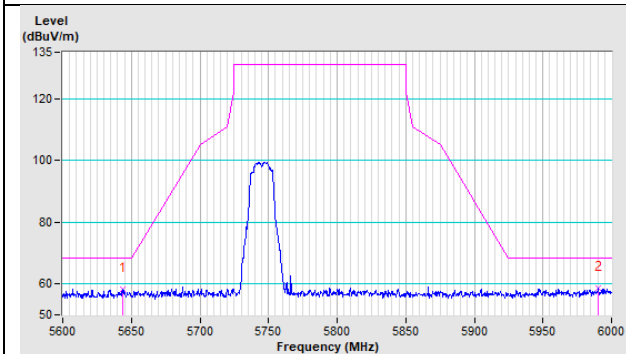
5 Pictures of Test Arrangements

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

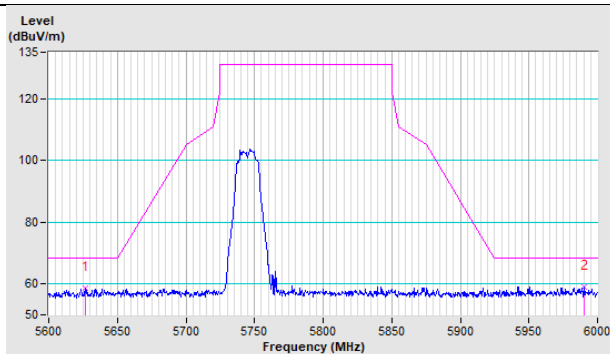
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

802.11a CH 149 : 5745 MHz

Horizontal

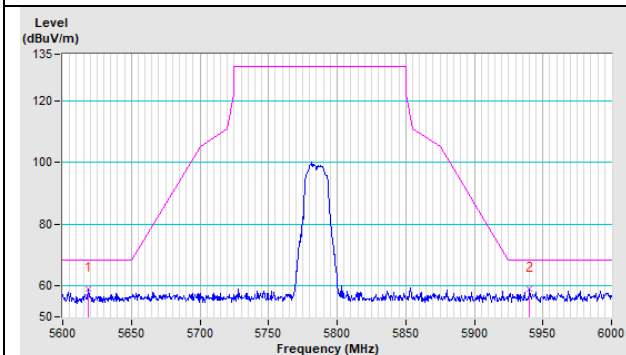


Vertical

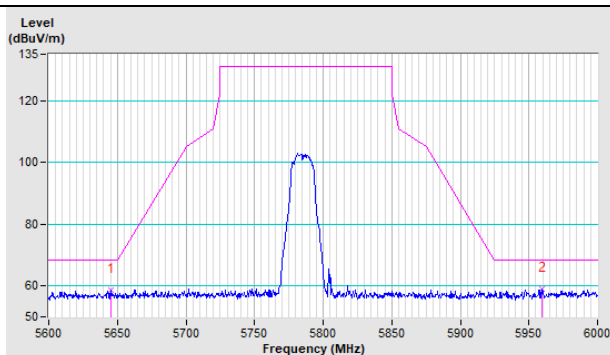


802.11a CH 157 : 5785 MHz

Horizontal

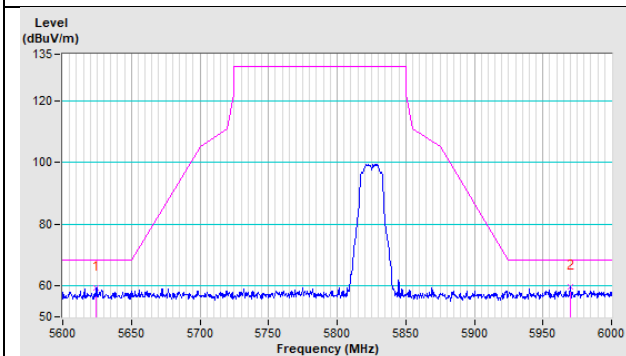


Vertical

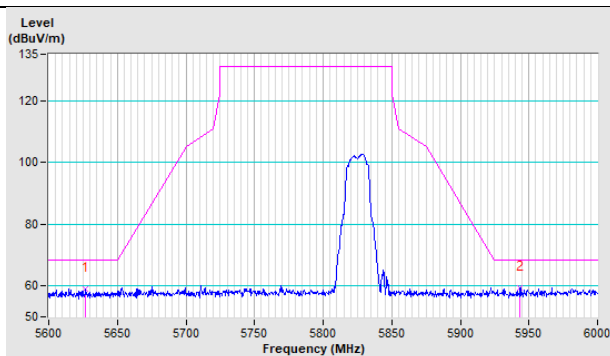


802.11a CH 165 : 5825 MHz

Horizontal

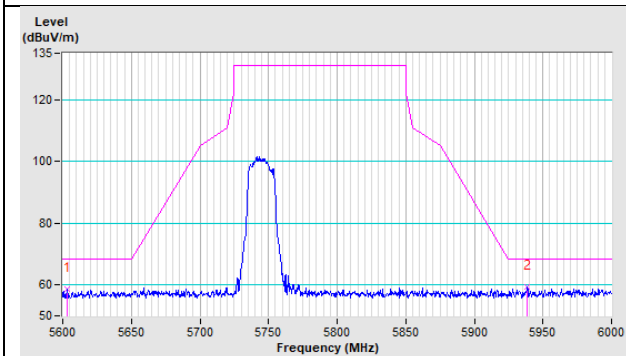


Vertical

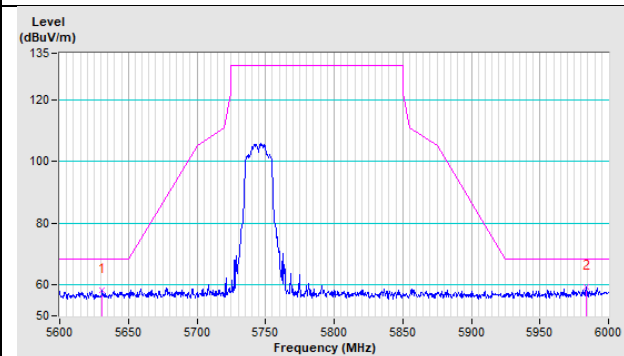


Full RU
802.11ax (HE20) CH 149 : 5745 MHz

Horizontal

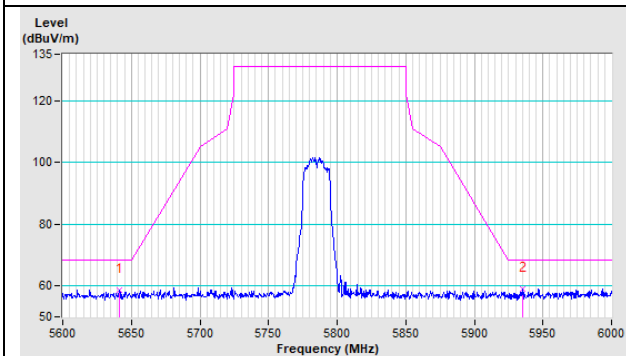


Vertical

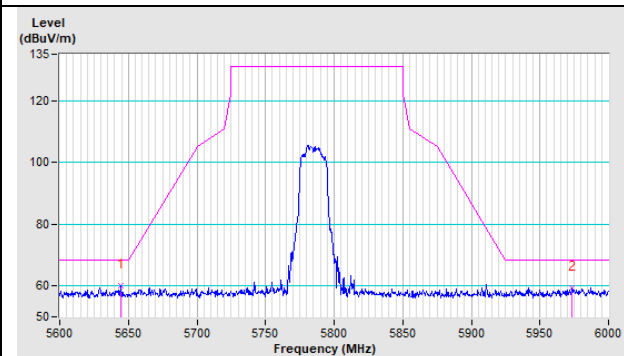


802.11ax (HE20) CH 157 : 5785 MHz

Horizontal

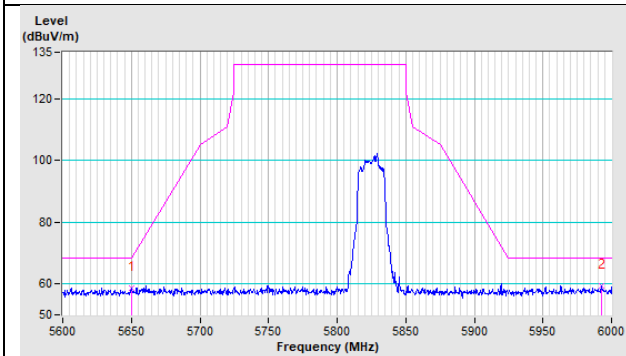


Vertical

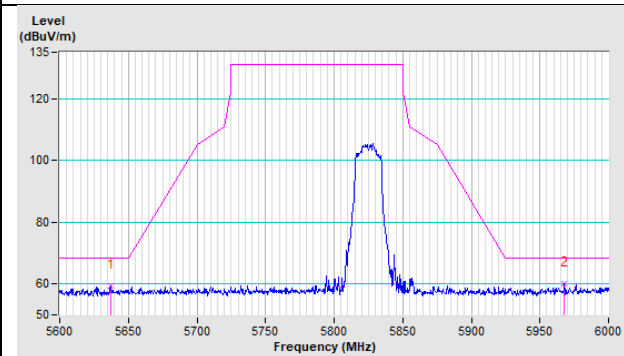


802.11ax (HE20) CH 165 : 5825 MHz

Horizontal

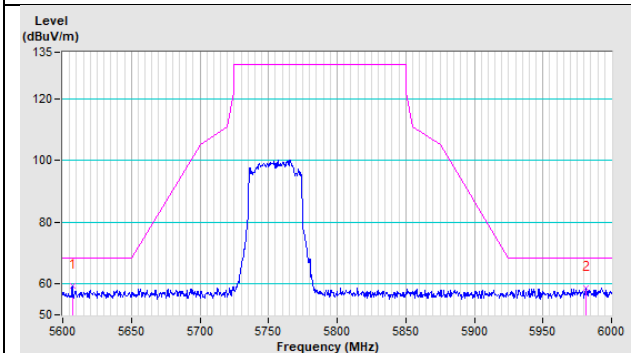


Vertical

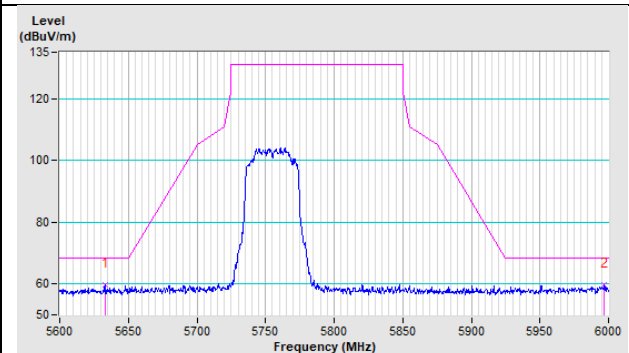


802.11ax (HE40) CH 151 : 5755 MHz

Horizontal

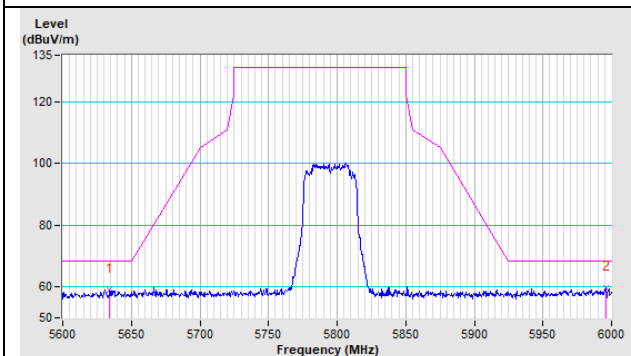


Vertical

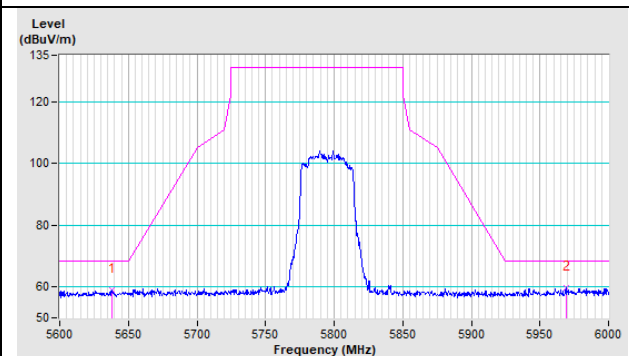


802.11ax (HE40) CH 159 : 5795 MHz

Horizontal

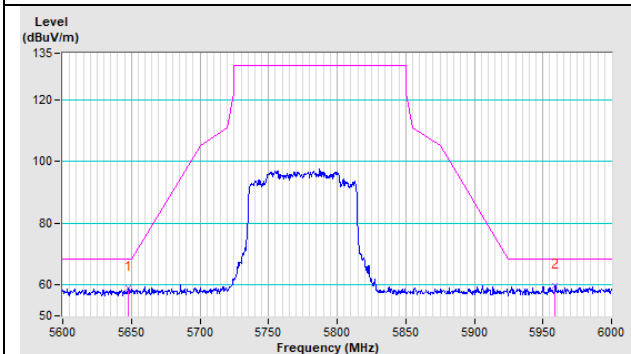


Vertical

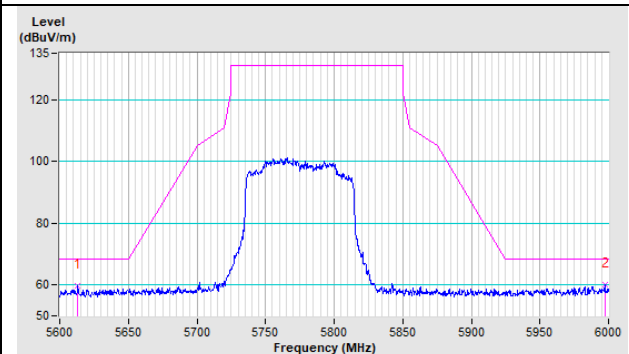


802.11ax (HE80) CH 155 : 5775 MHz

Horizontal



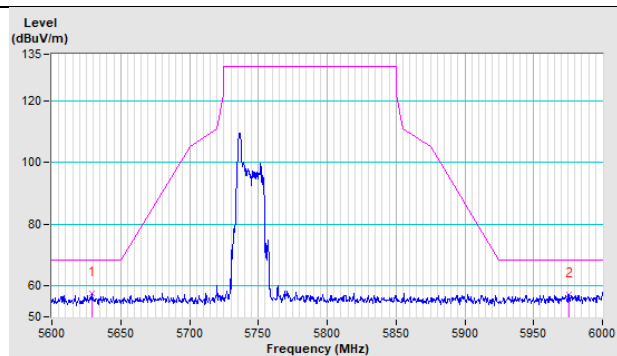
Vertical



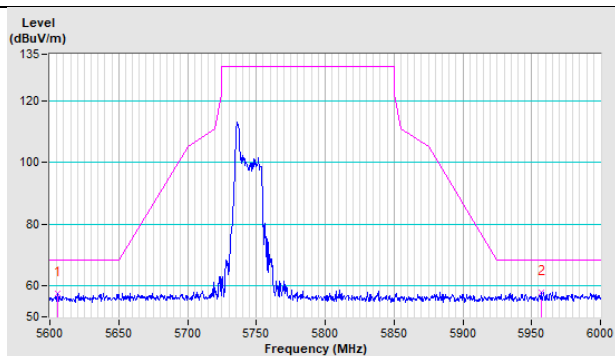
Partial RU

802.11ax (HE20) (RU26) CH 149 : 5745 MHz

Horizontal

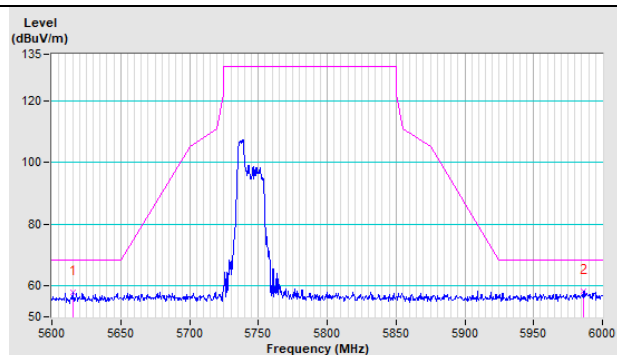


Vertical

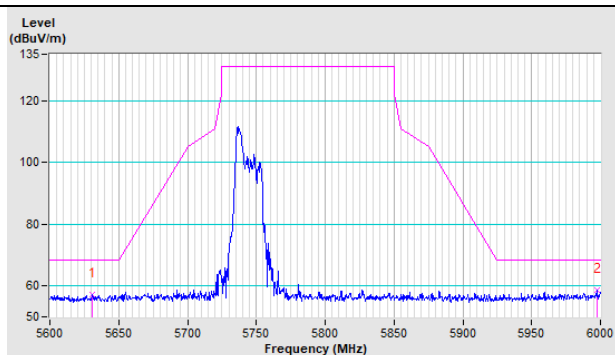


802.11ax (HE20) (RU52) CH 149 : 5745 MHz

Horizontal

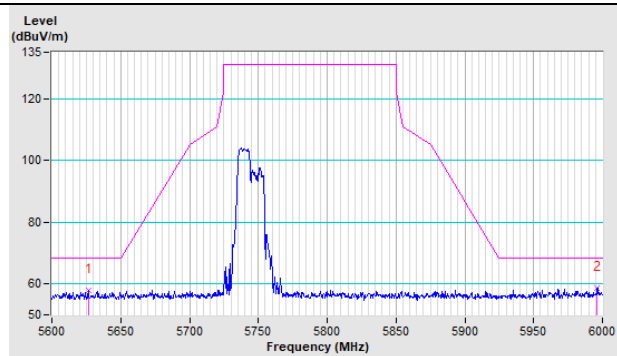


Vertical

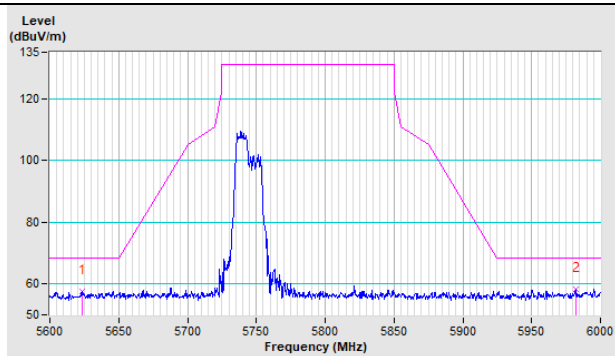


802.11ax (HE20) (RU106) CH 149 : 5745 MHz

Horizontal

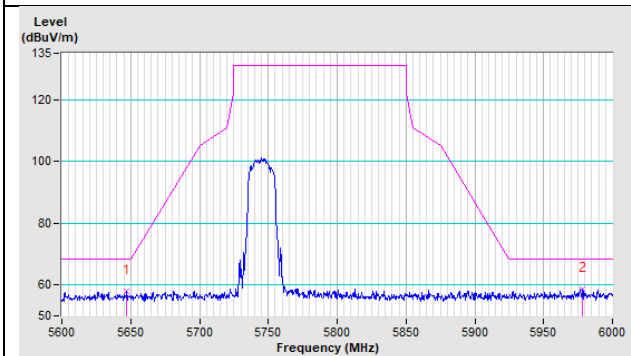


Vertical

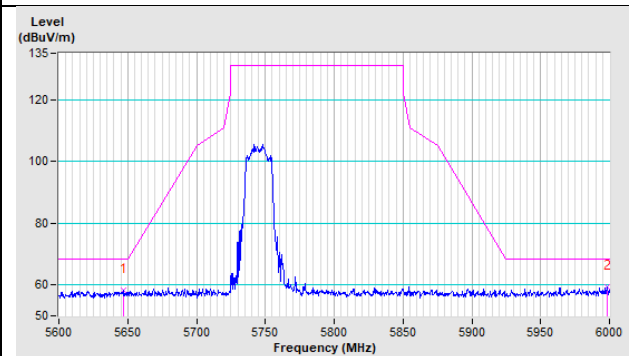


802.11ax (HE40) (242) CH 151 : 5755 MHz

Horizontal

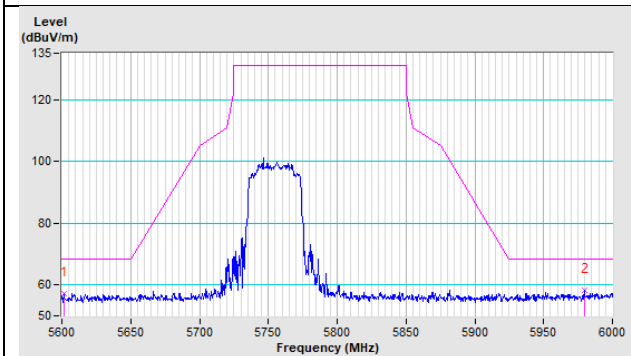


Vertical

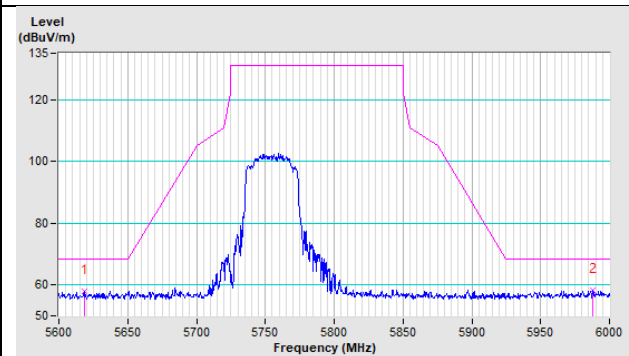


802.11ax (HE80) (484) CH 155 : 5775 MHz

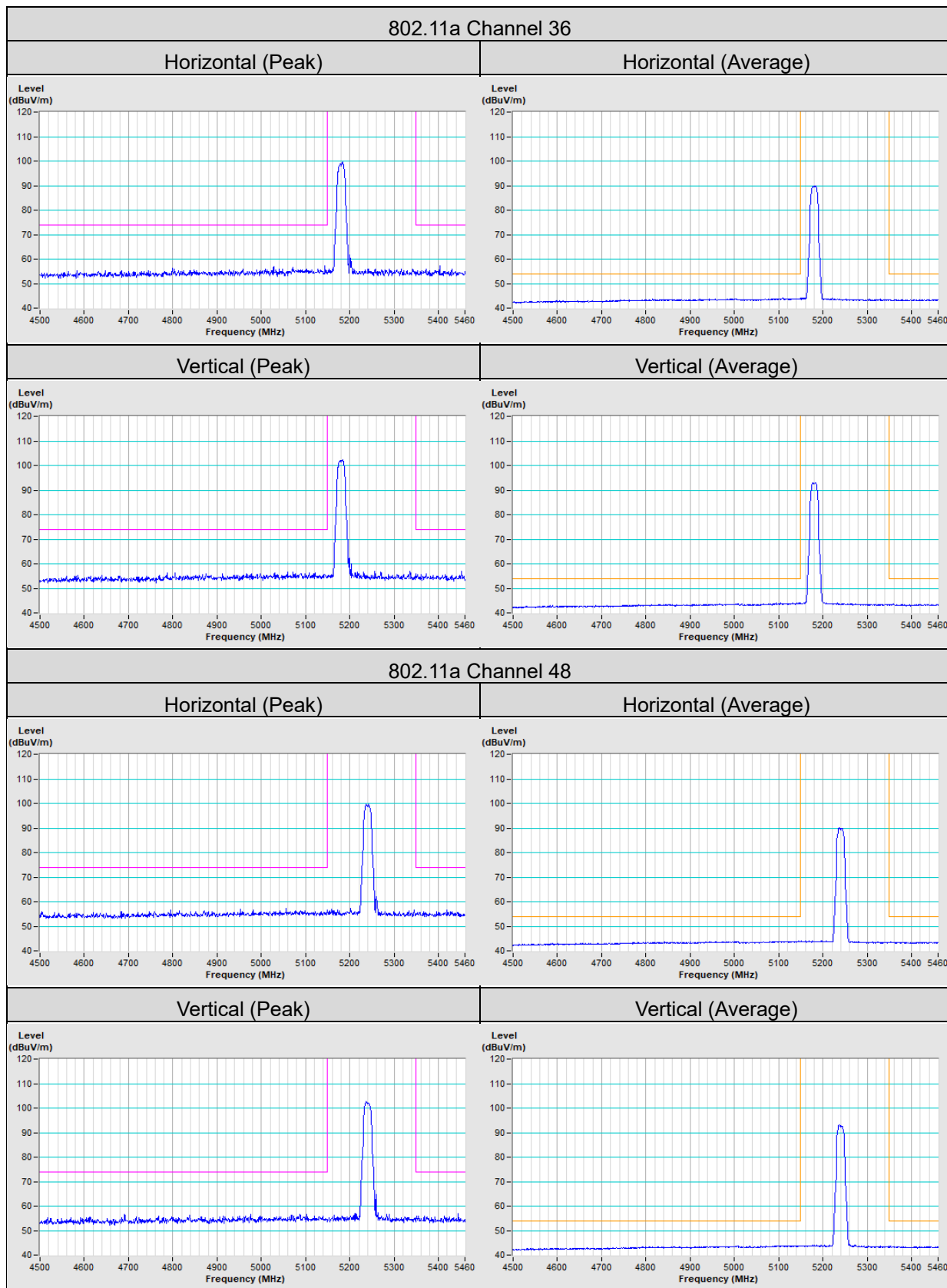
Horizontal



Vertical

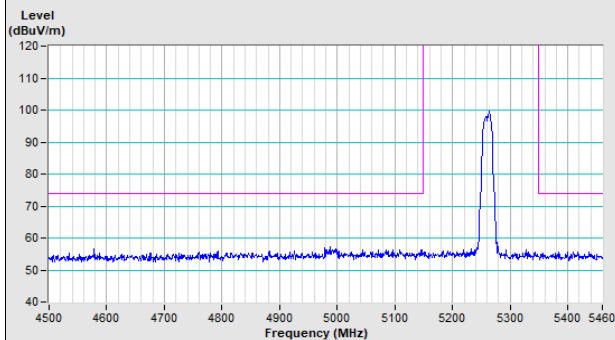


Annex B - Band Edge Measurement

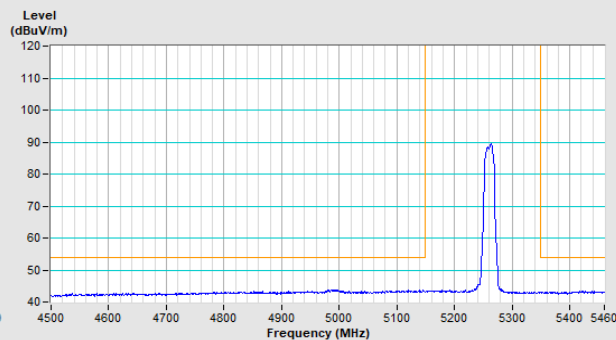


802.11a Channel 52

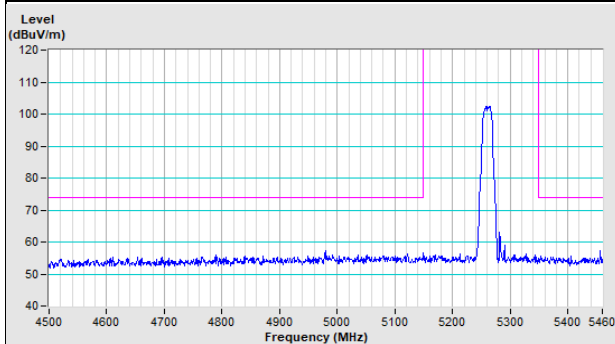
Horizontal (Peak)



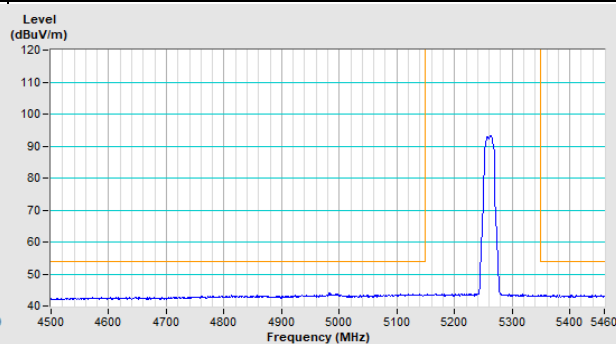
Horizontal (Average)



Vertical (Peak)

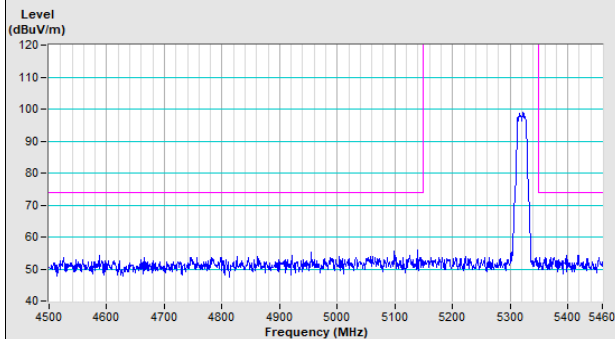


Vertical (Average)

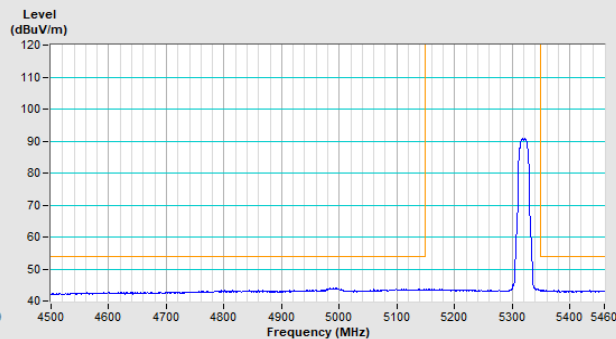


802.11a Channel 64

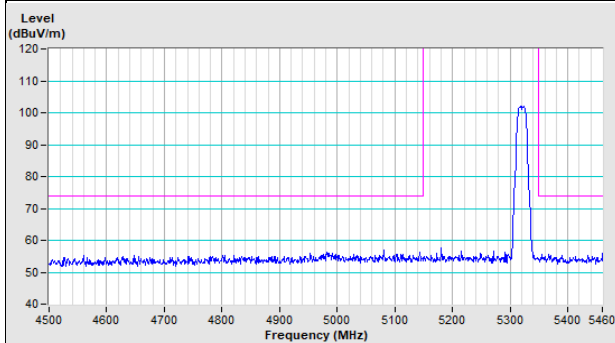
Horizontal (Peak)



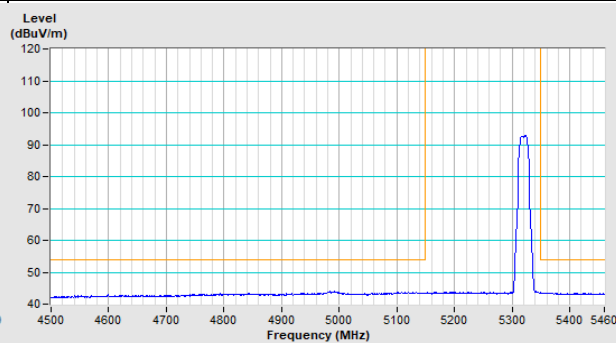
Horizontal (Average)



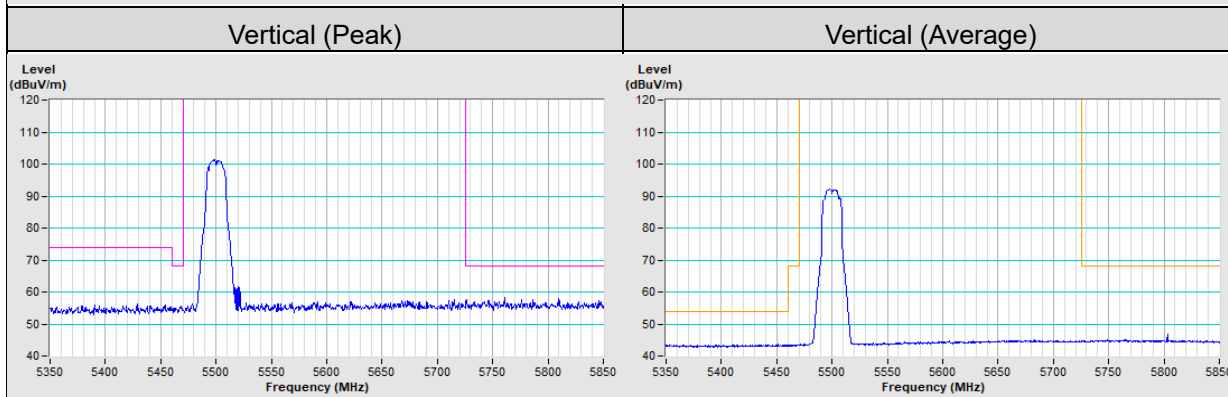
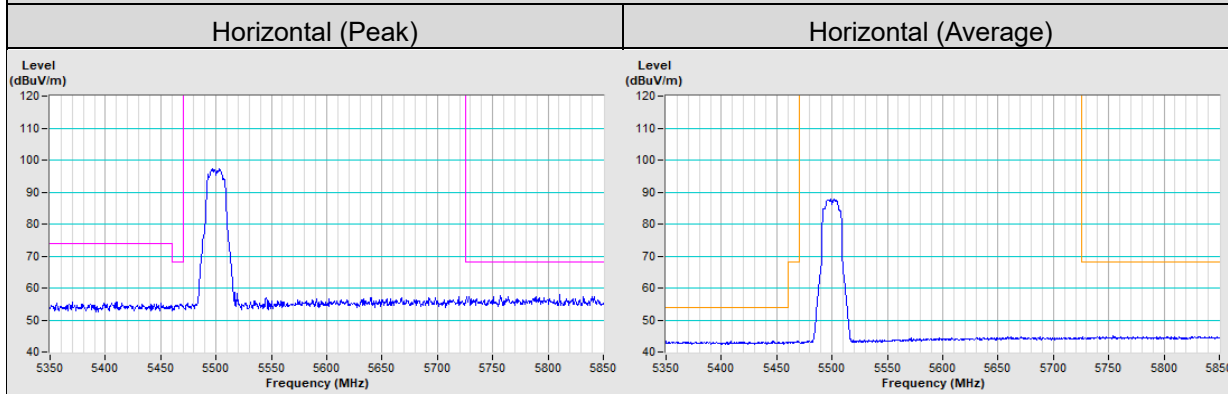
Vertical (Peak)



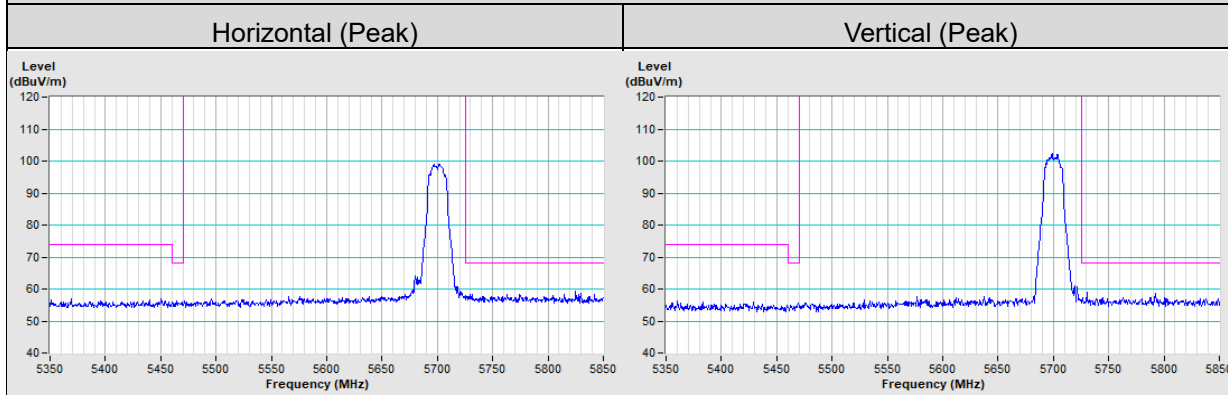
Vertical (Average)



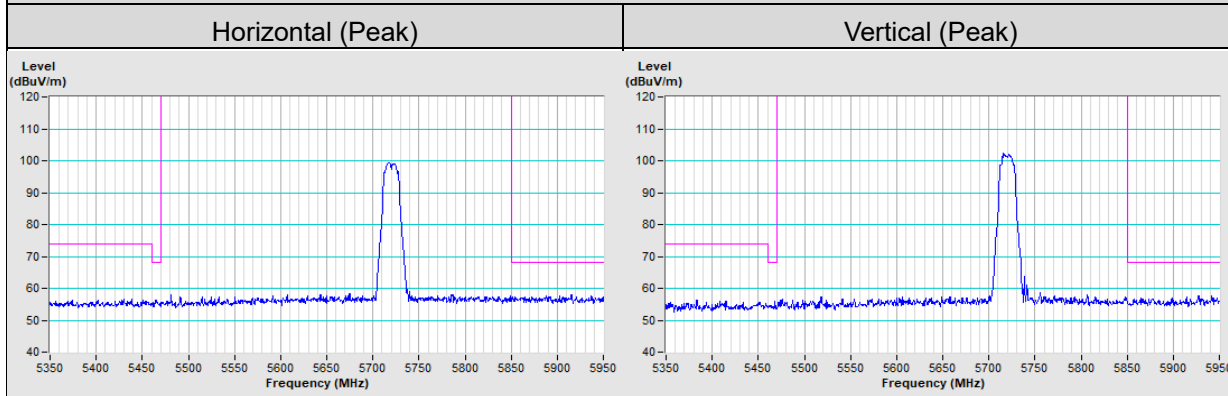
802.11a Channel 100



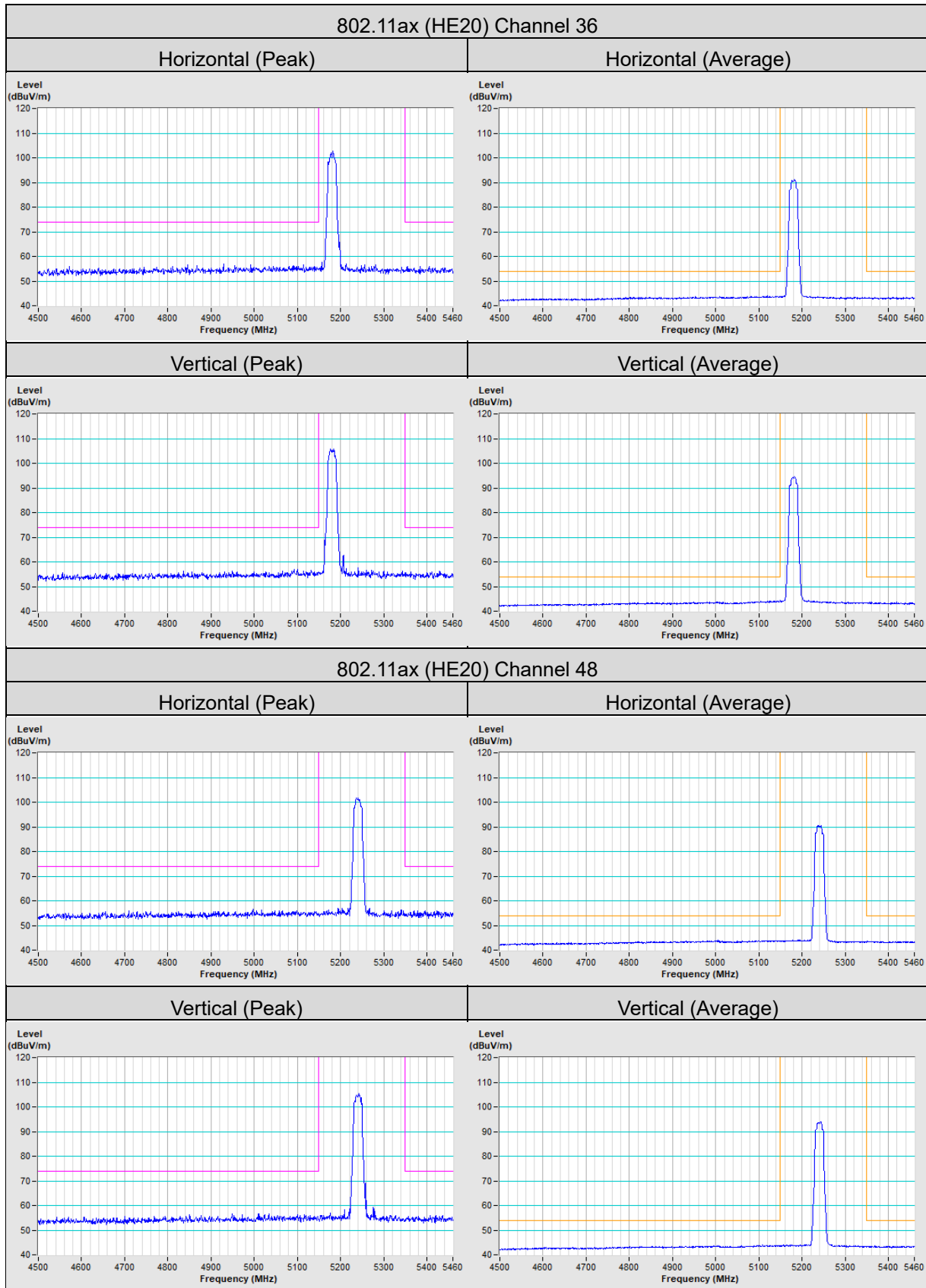
802.11a Channel 140



802.11a Channel 144

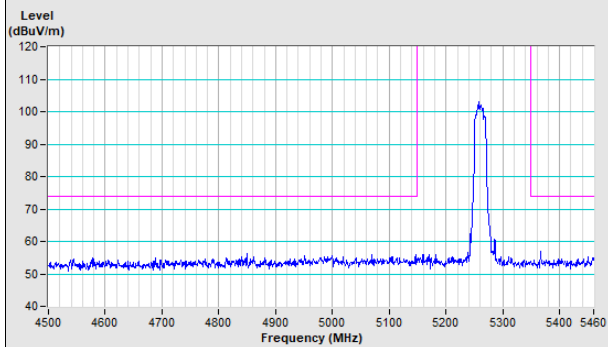


Full RU

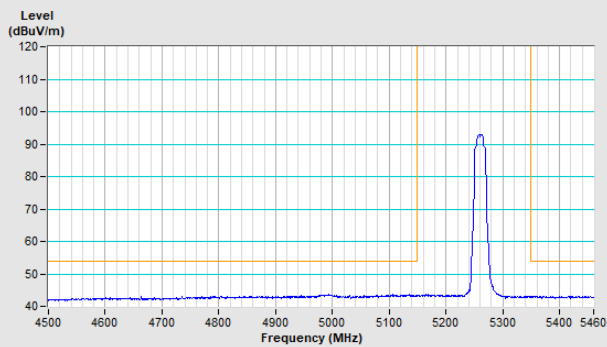


802.11ax (HE20) Channel 52

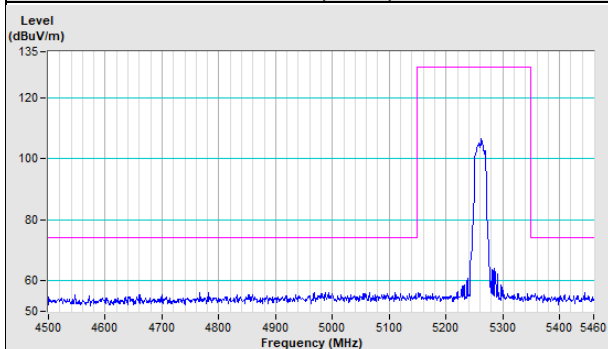
Horizontal (Peak)



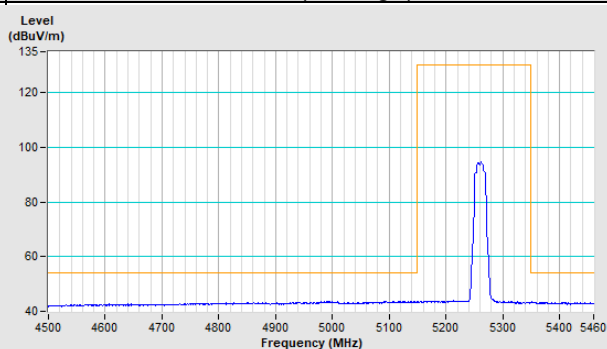
Horizontal (Average)



Vertical (Peak)

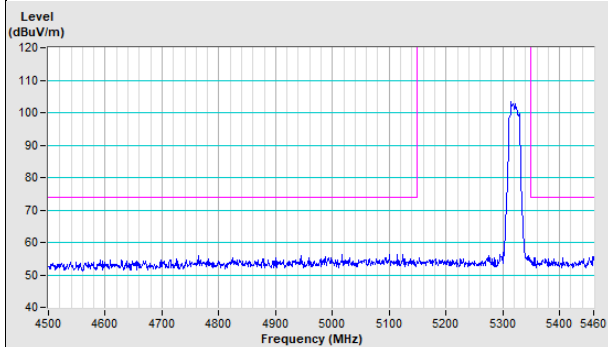


Vertical (Average)

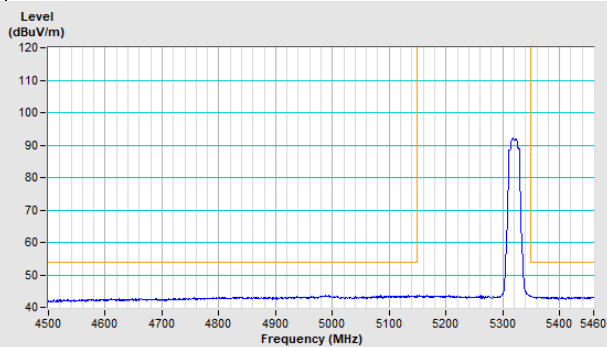


802.11ax (HE20) Channel 64

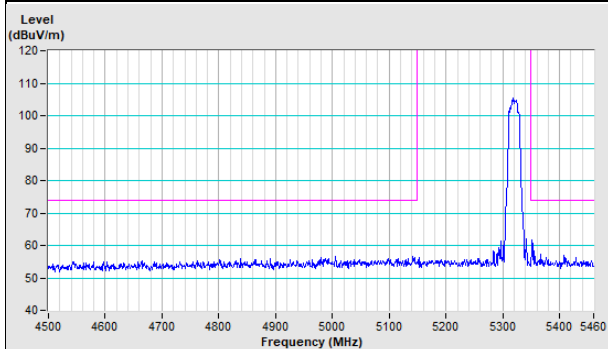
Horizontal (Peak)



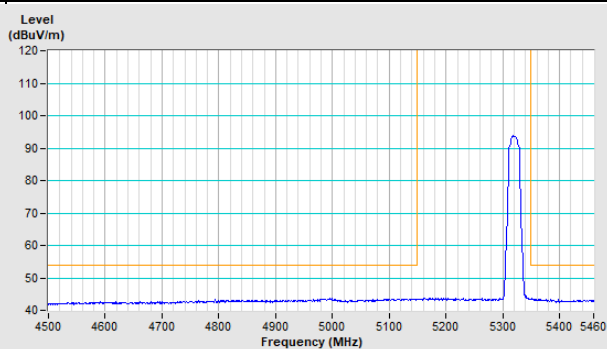
Horizontal (Average)



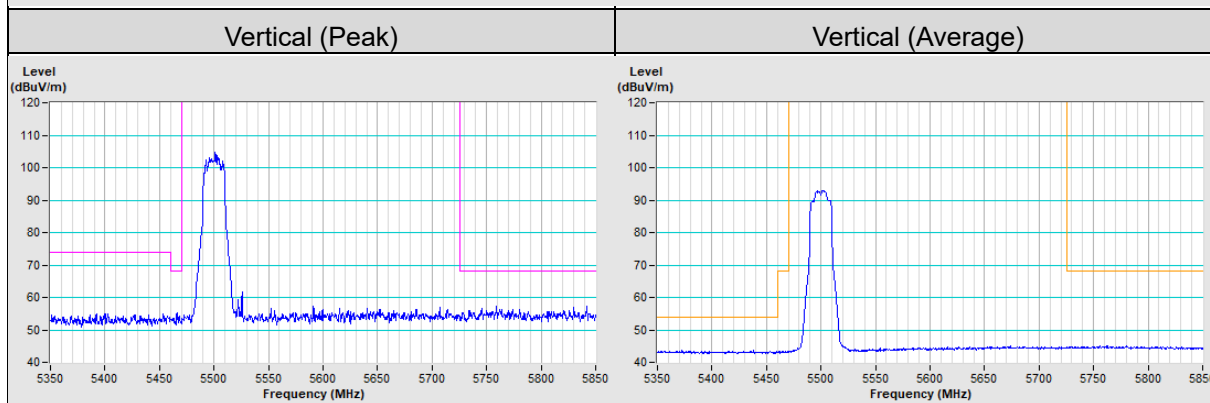
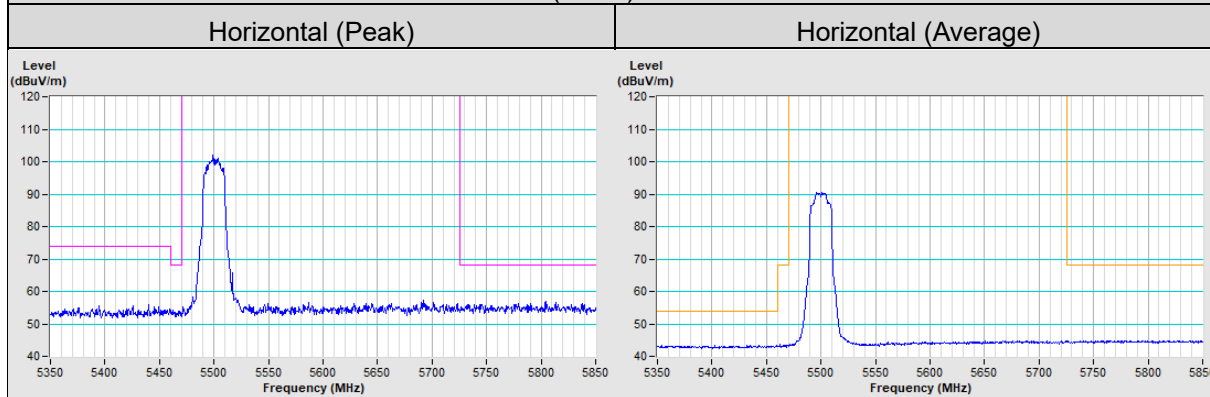
Vertical (Peak)



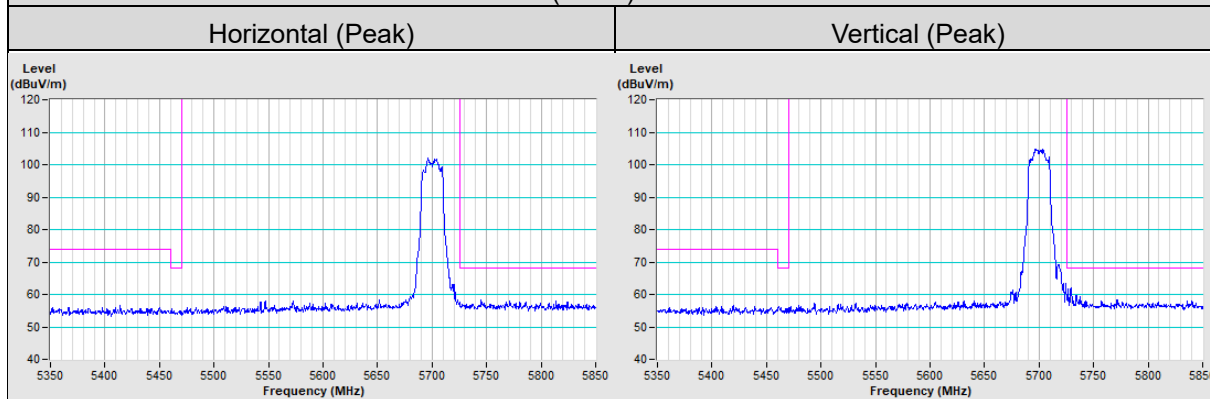
Vertical (Average)



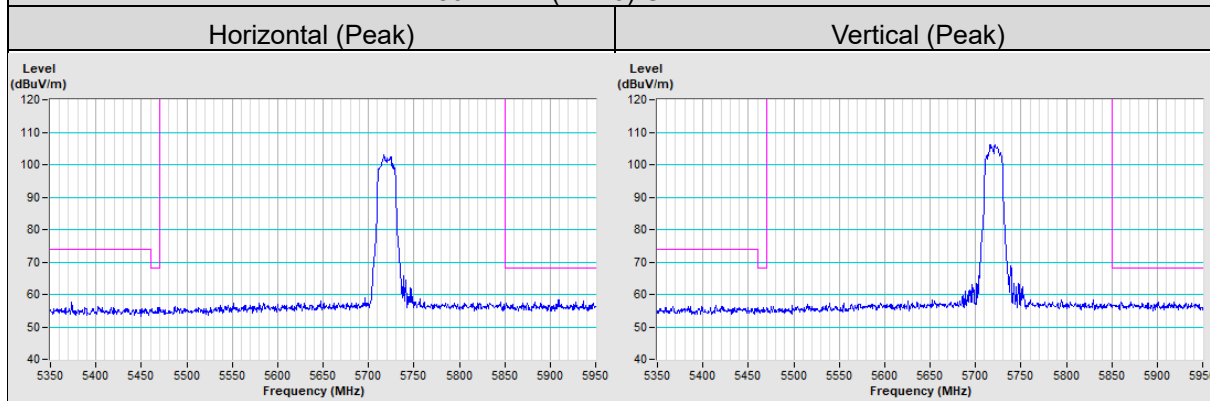
802.11ax (HE20) Channel 100



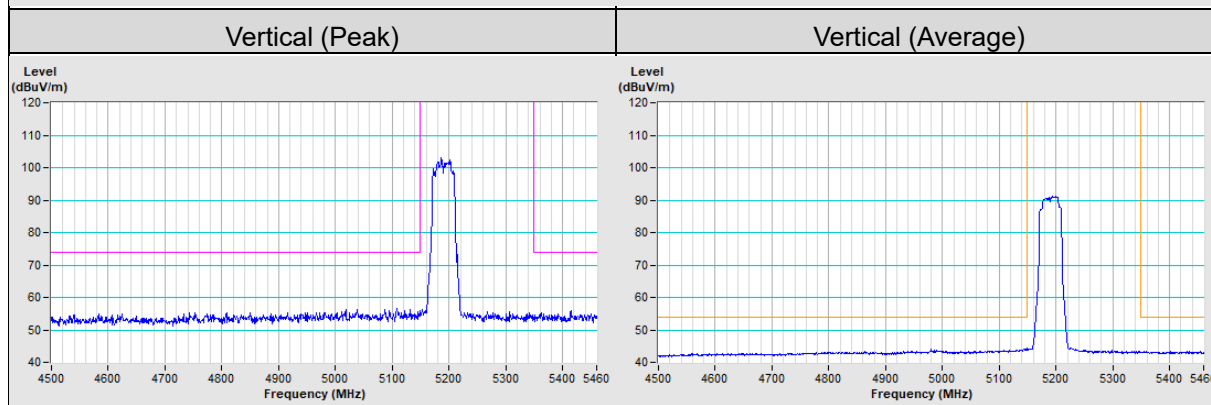
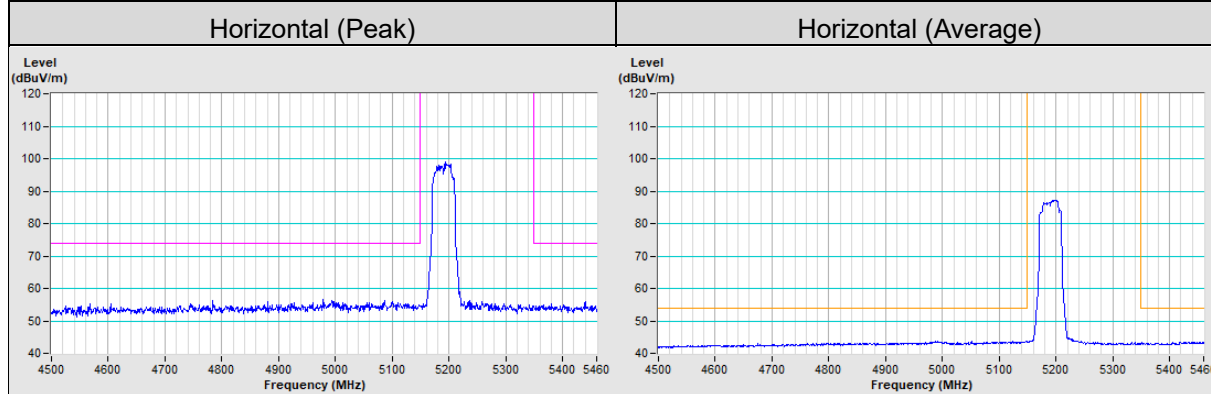
802.11ax (HE20) Channel 140



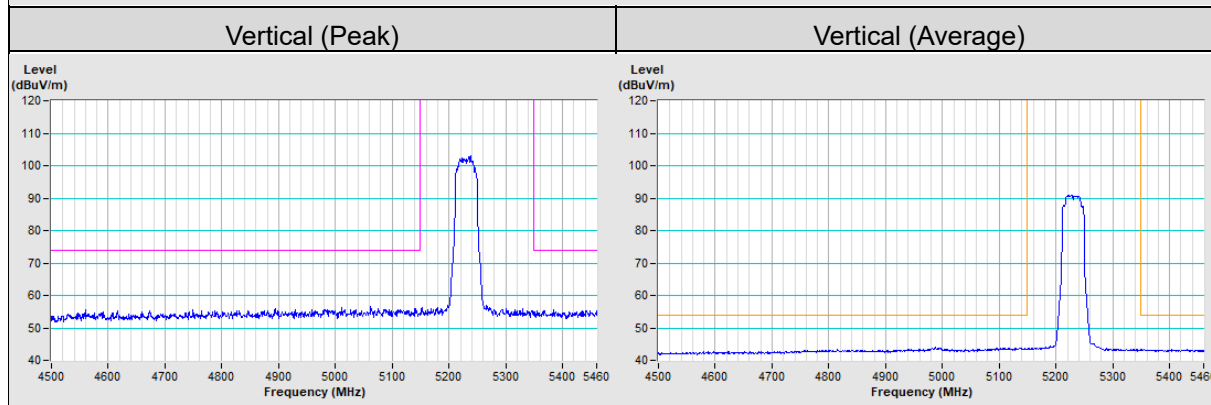
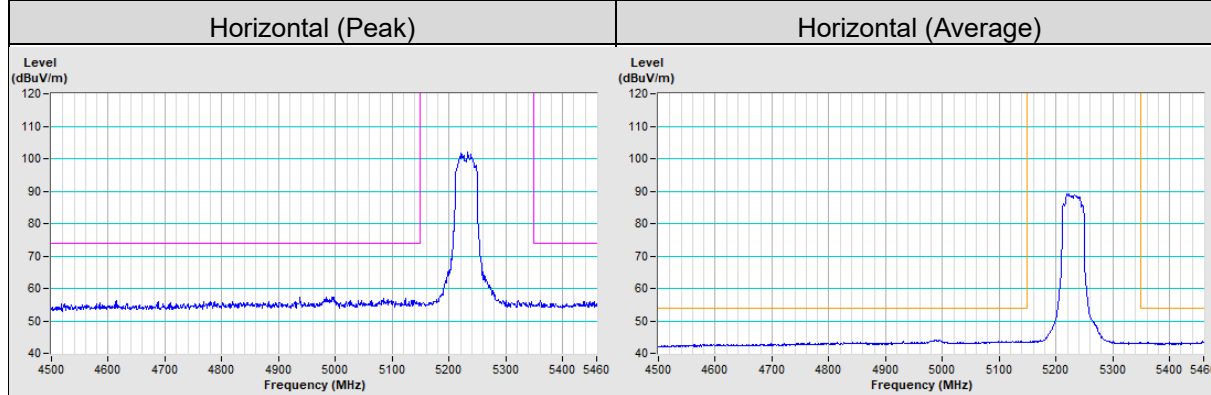
802.11ax (HE20) Channel 144



802.11ax (HE40) Channel 38

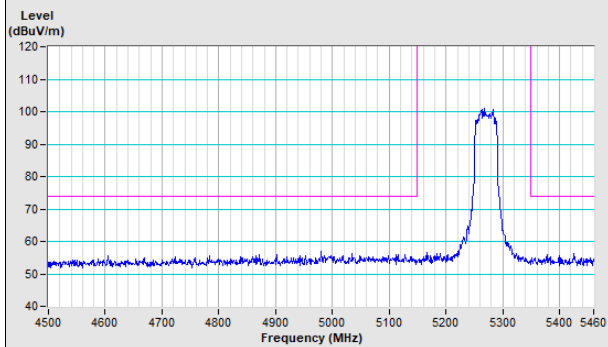


802.11ax (HE40) Channel 46

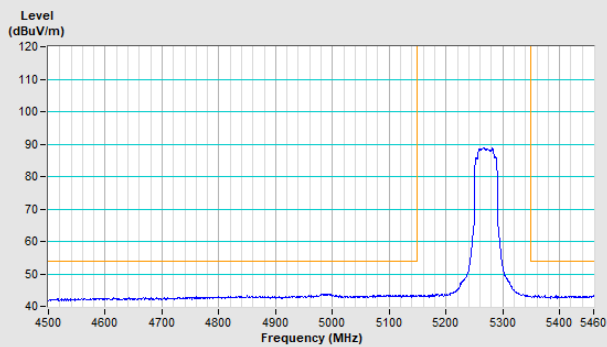


802.11ax (HE40) Channel 54

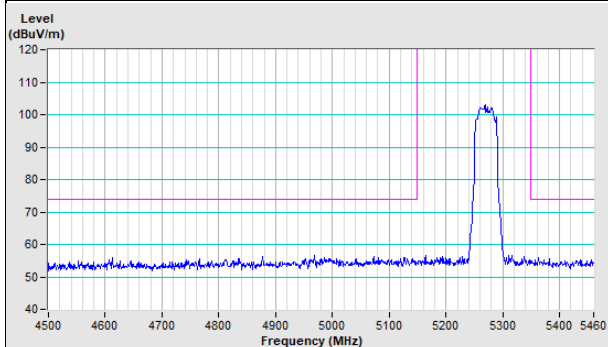
Horizontal (Peak)



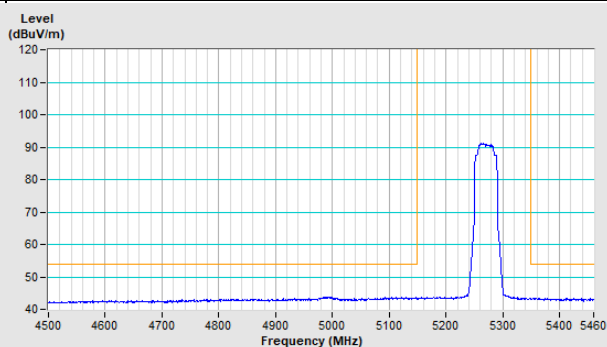
Horizontal (Average)



Vertical (Peak)

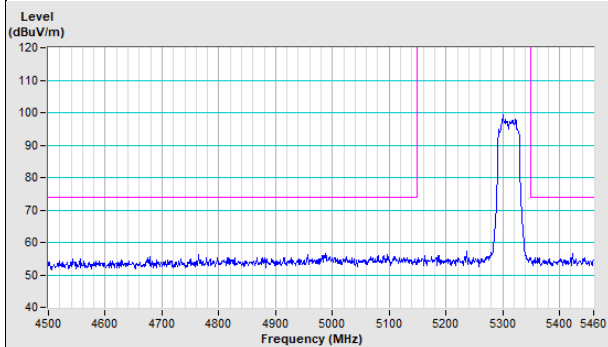


Vertical (Average)

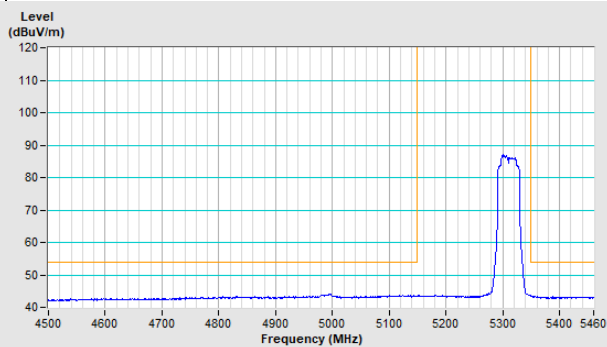


802.11ax (HE40) Channel 62

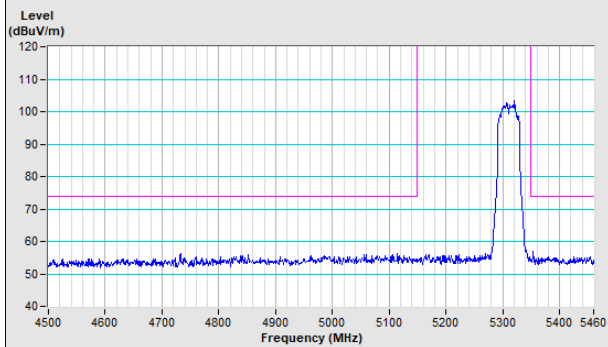
Horizontal (Peak)



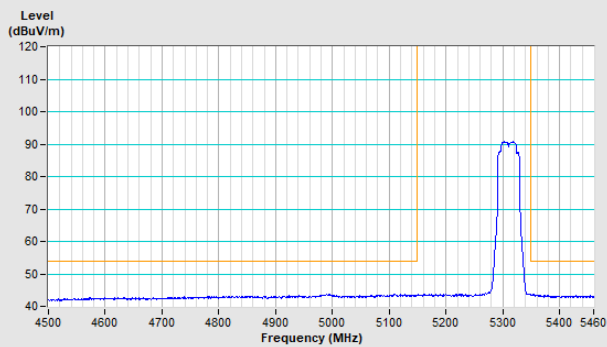
Horizontal (Average)



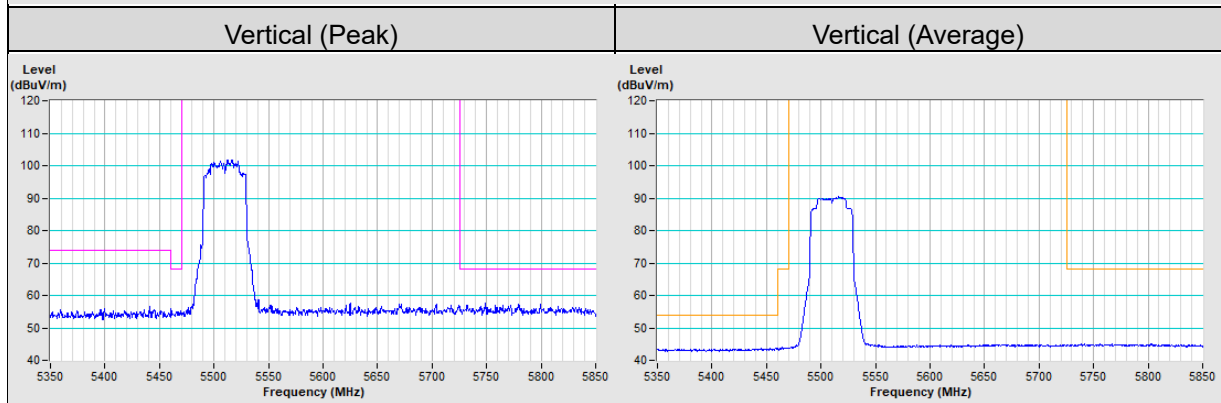
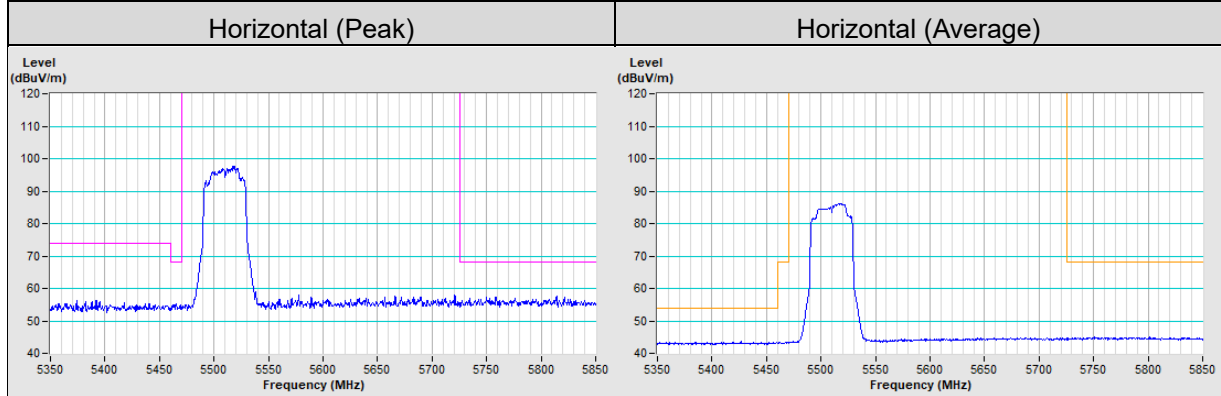
Vertical (Peak)



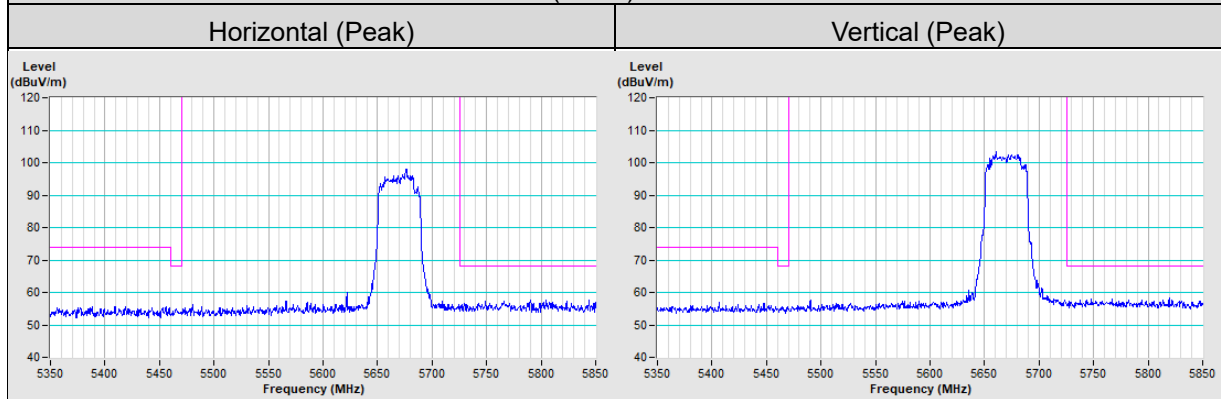
Vertical (Average)



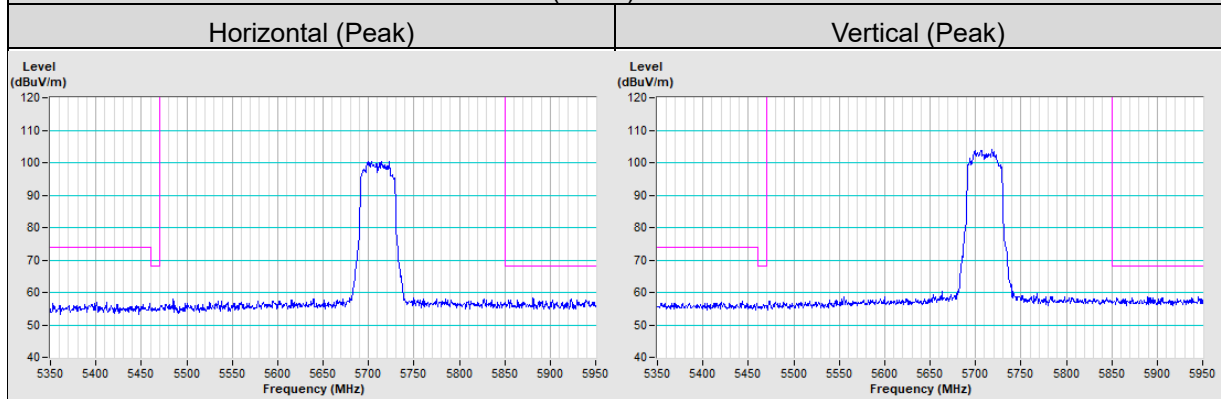
802.11ax (HE40) Channel 102



802.11ax (HE40) Channel 134

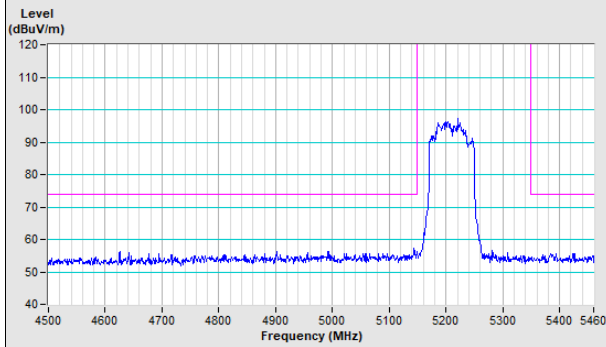


802.11ax (HE40) Channel 142

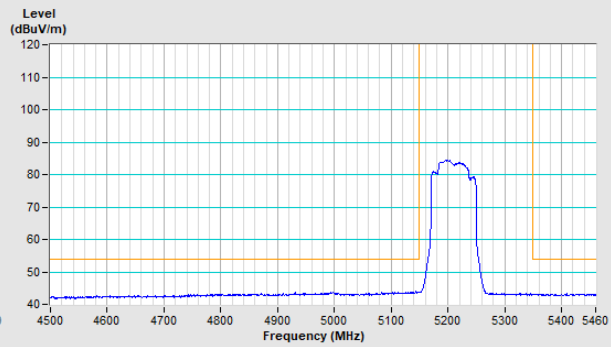


802.11ax (HE80) Channel 42

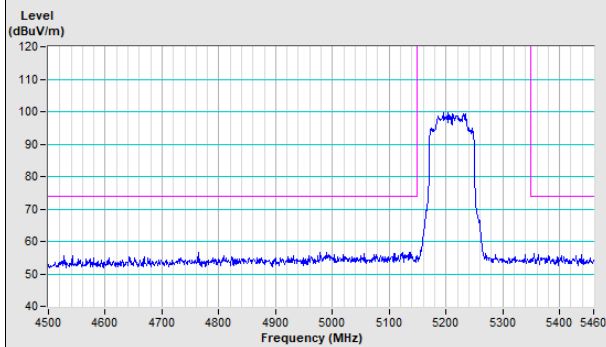
Horizontal (Peak)



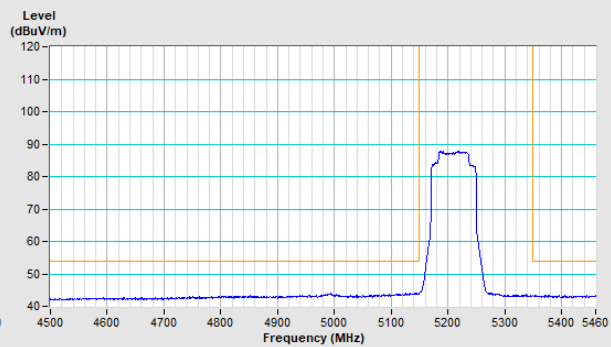
Horizontal (Average)



Vertical (Peak)

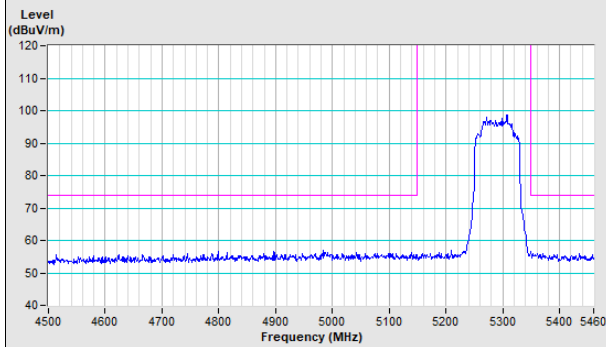


Vertical (Average)

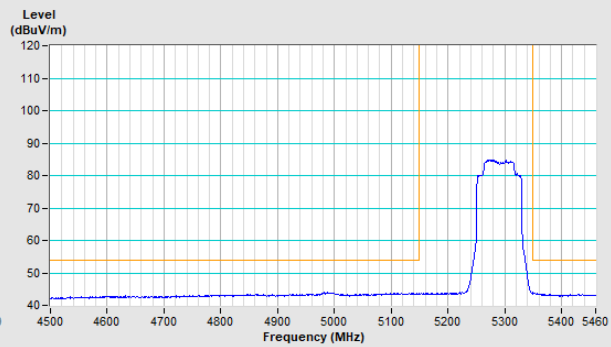


802.11ax (HE80) Channel 58

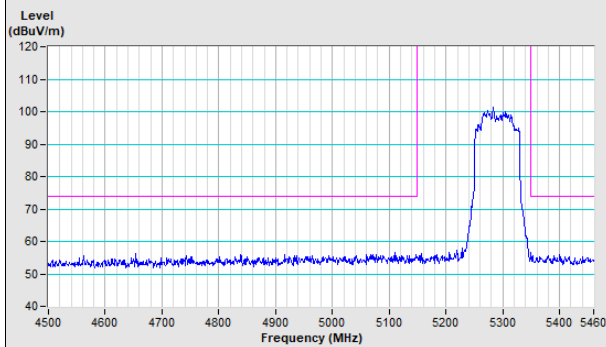
Horizontal (Peak)



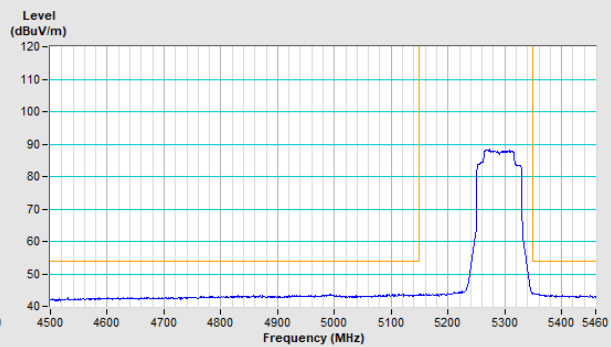
Horizontal (Average)



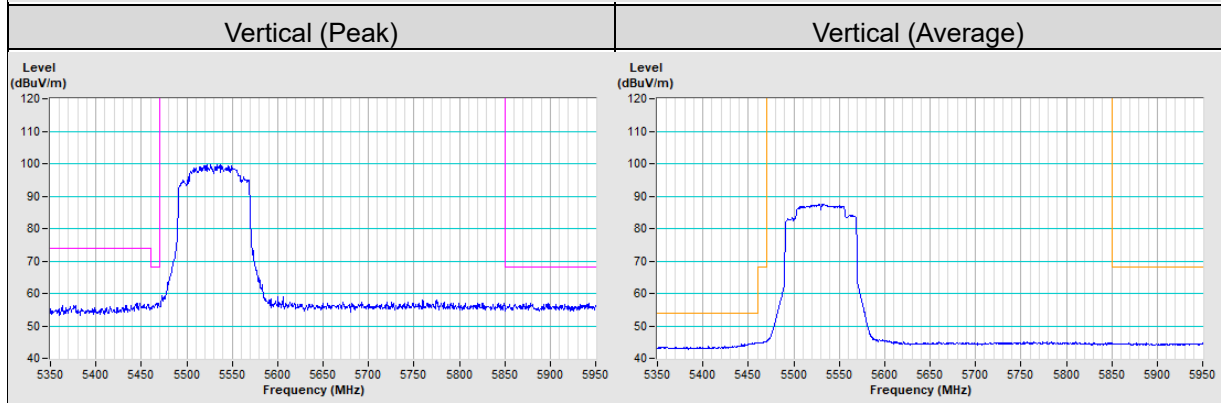
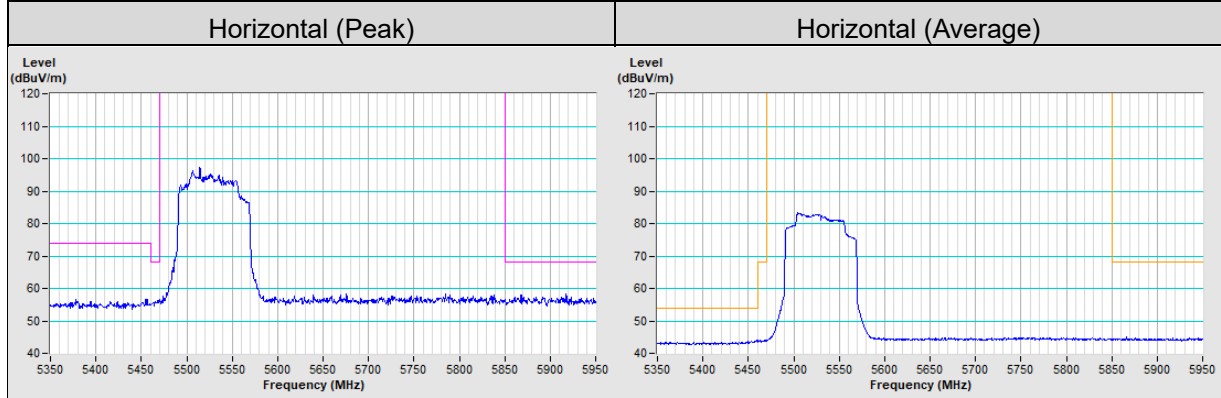
Vertical (Peak)



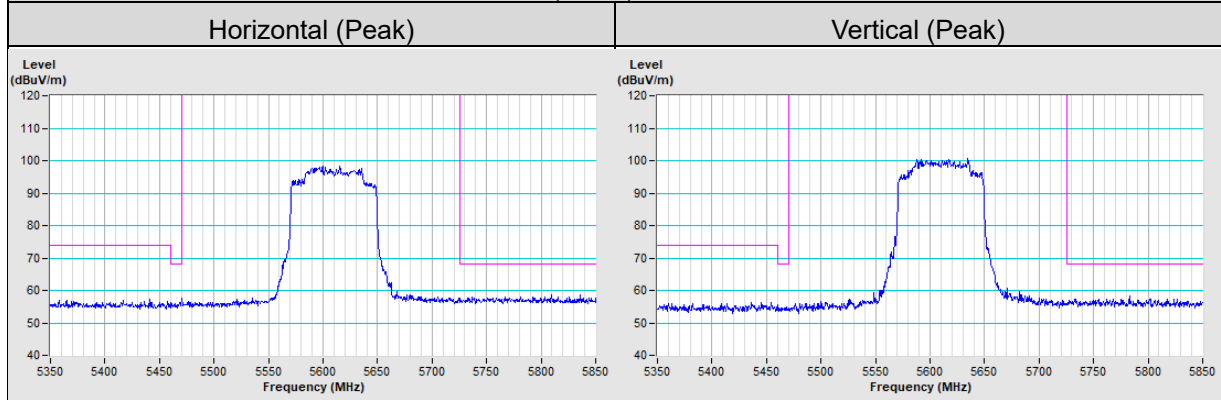
Vertical (Average)



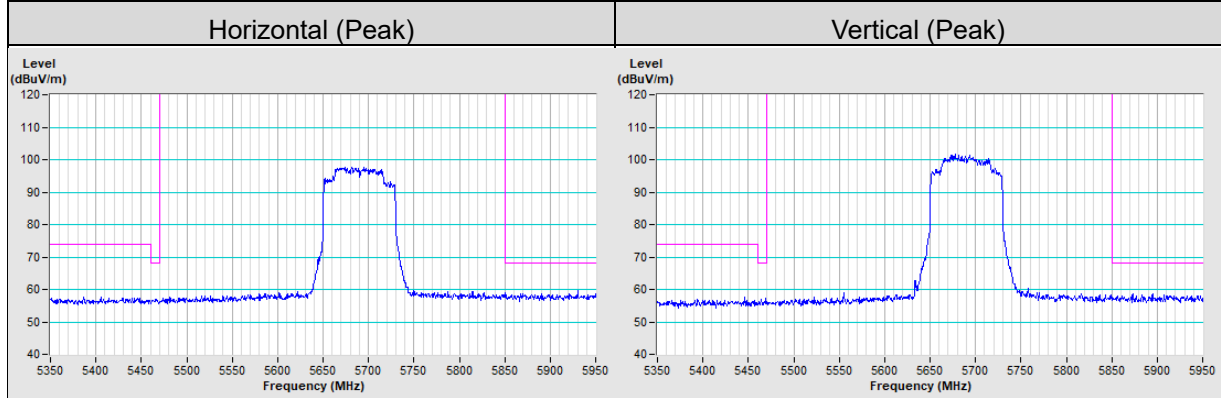
802.11ax (HE80) Channel 106



802.11ax (HE80) Channel 122

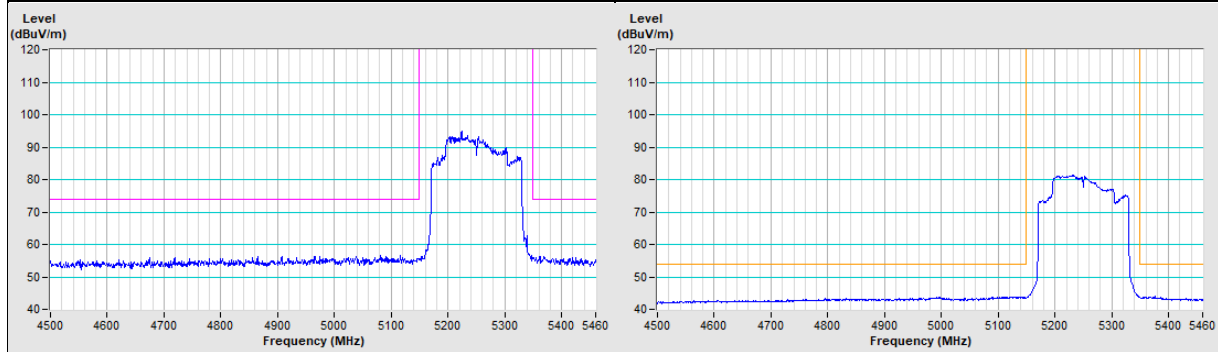


802.11ax (HE80) Channel 138

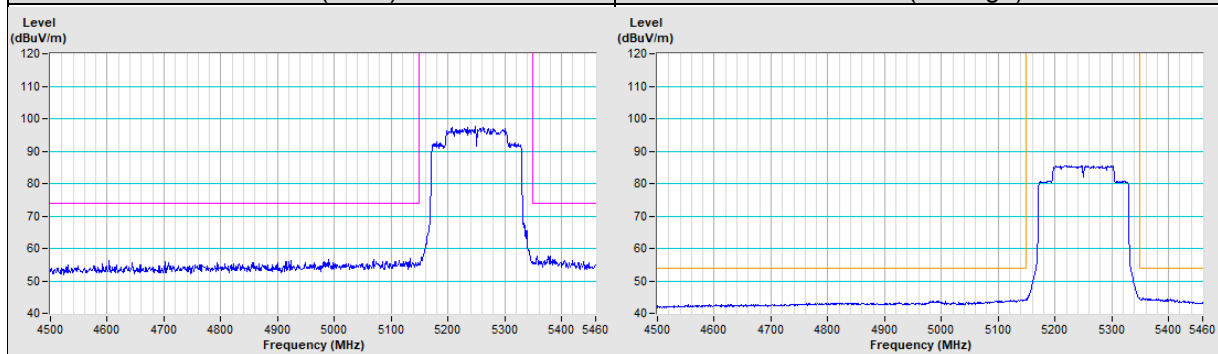


802.11ax (HE160) Channel 50

Horizontal (Peak)	Horizontal (Average)
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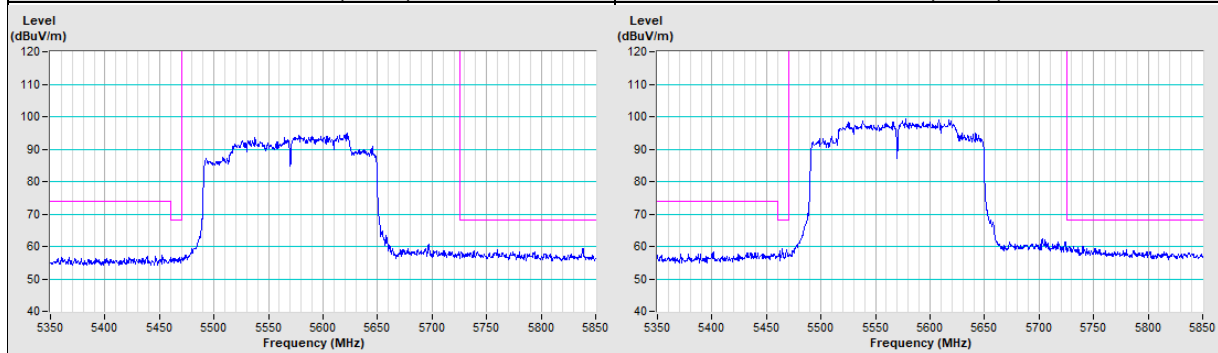


Vertical (Peak)	Vertical (Average)
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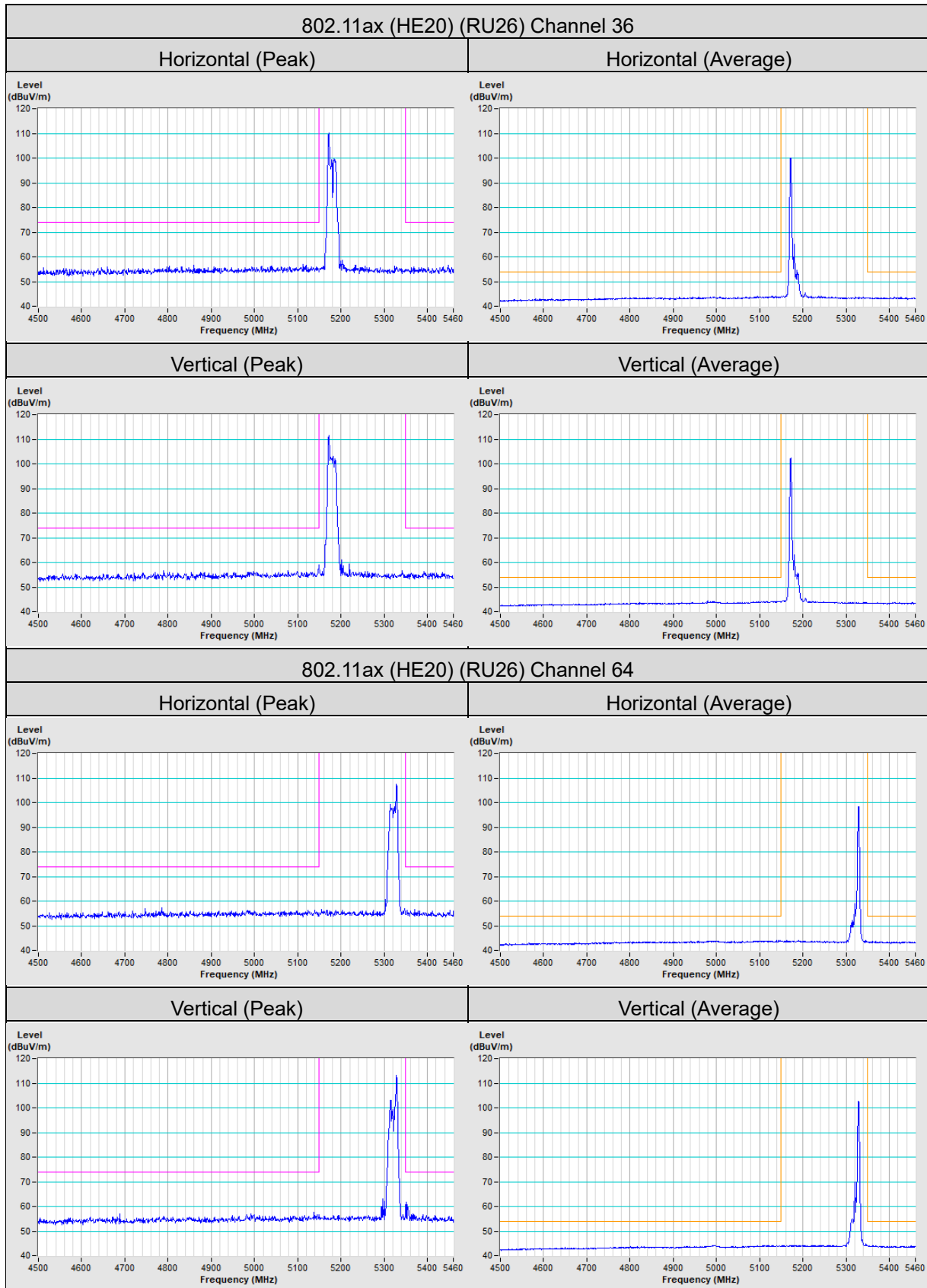


802.11ax (HE160) Channel 114

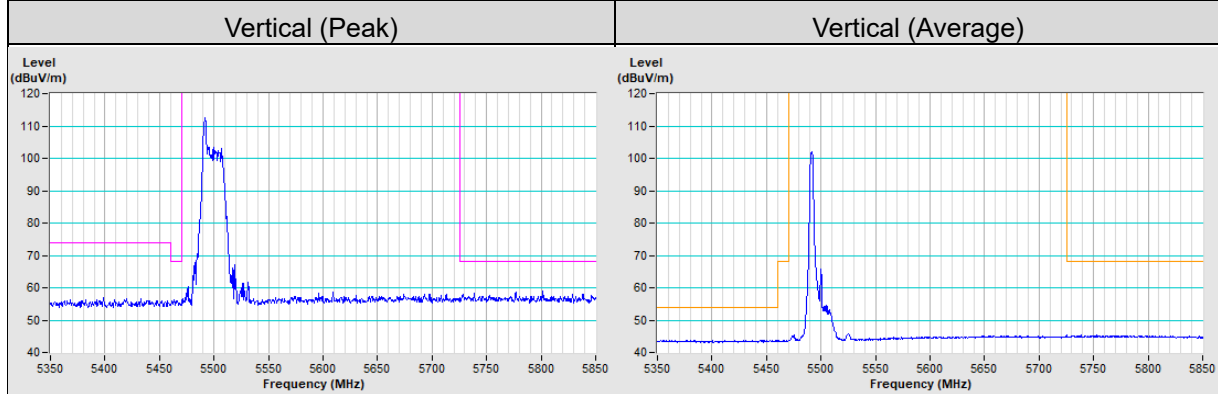
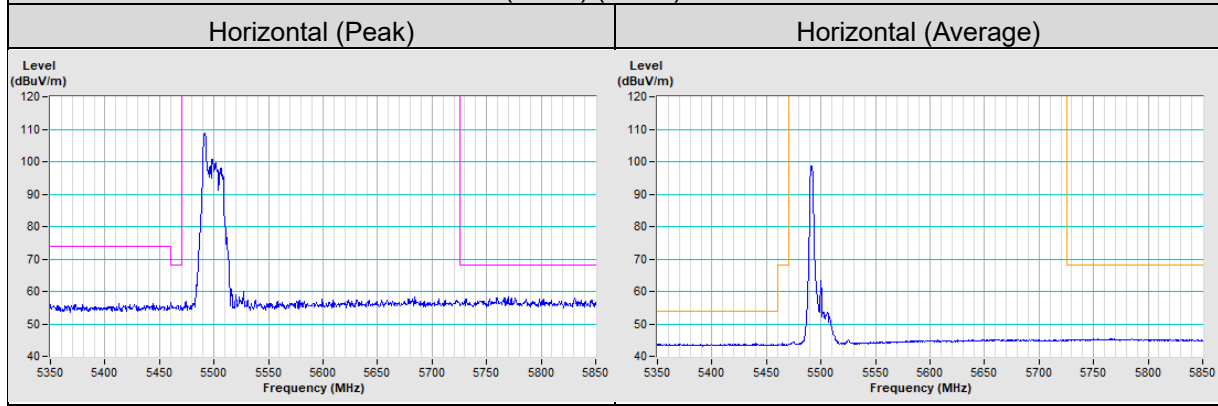
Horizontal (Peak)	Vertical (Peak)
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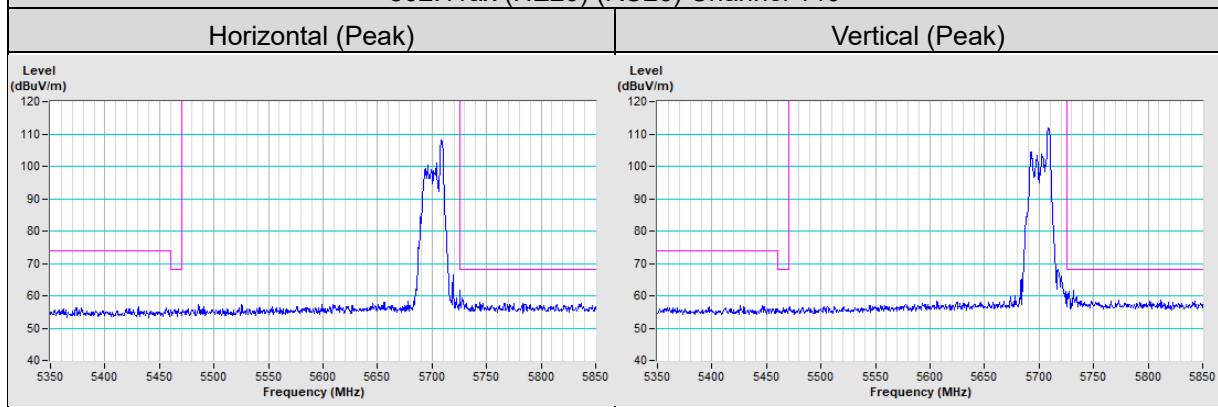
Partial RU

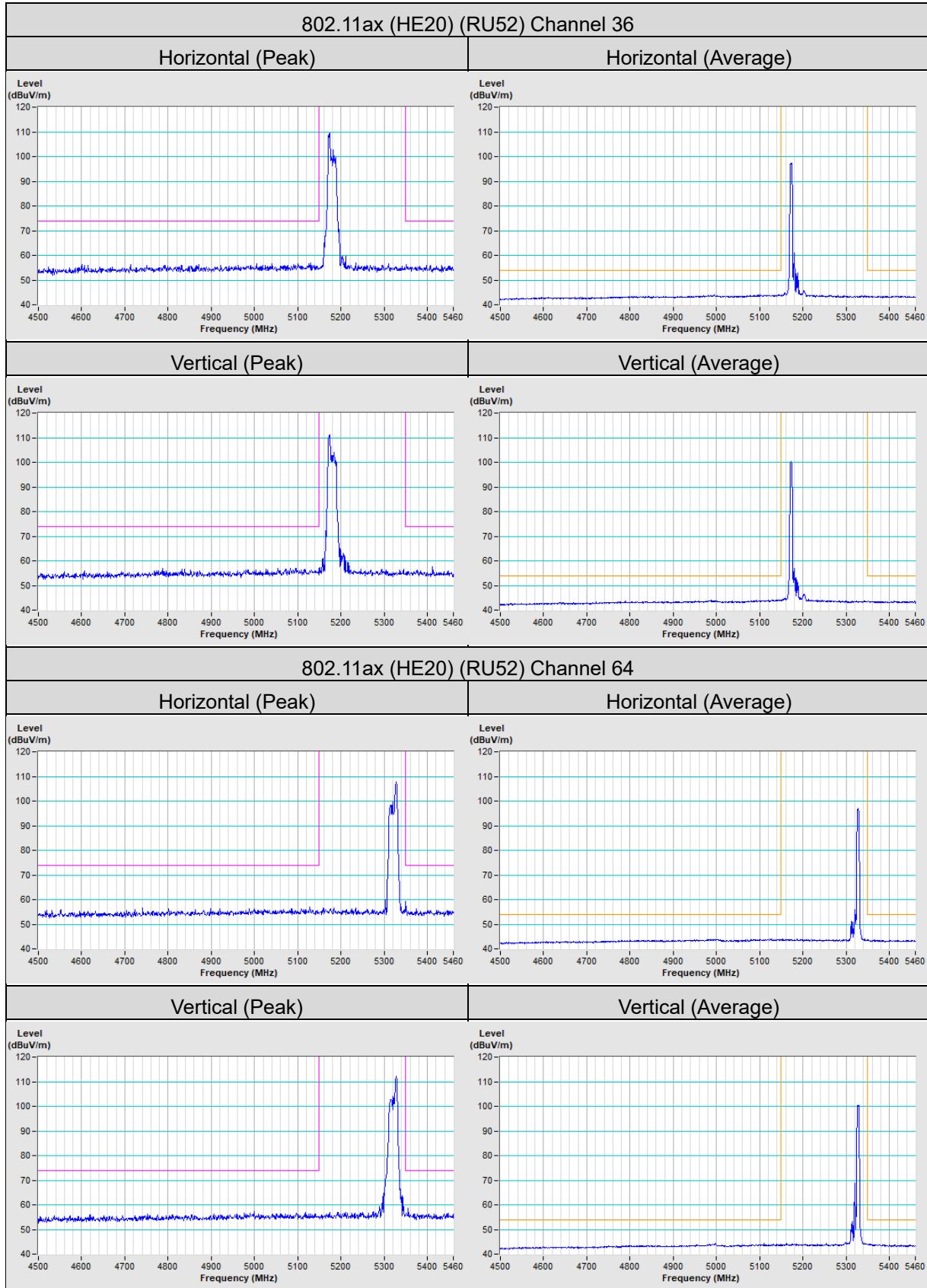


802.11ax (HE20) (RU26) Channel 100

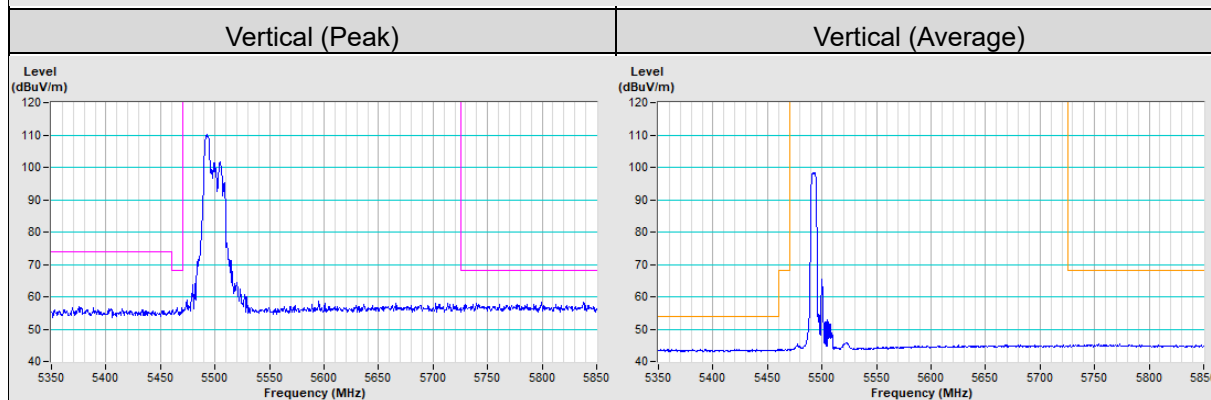
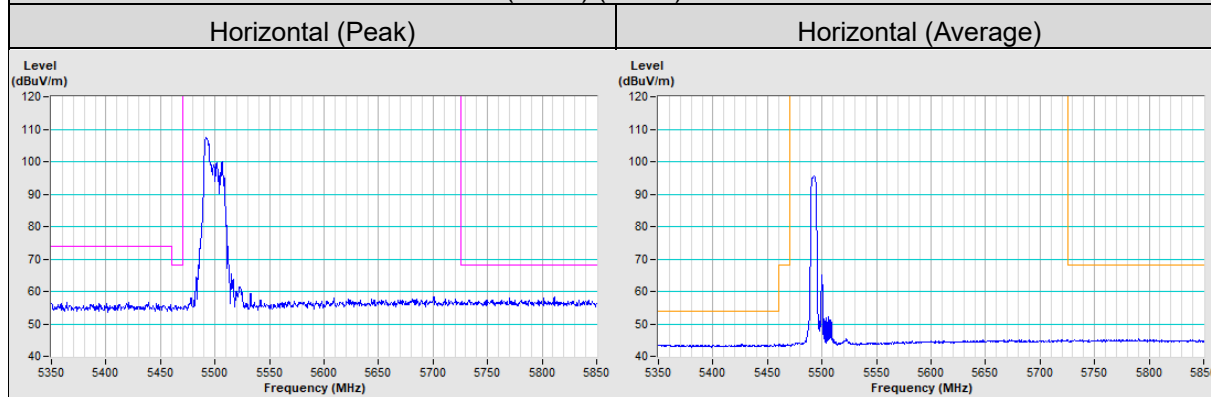


802.11ax (HE20) (RU26) Channel 140

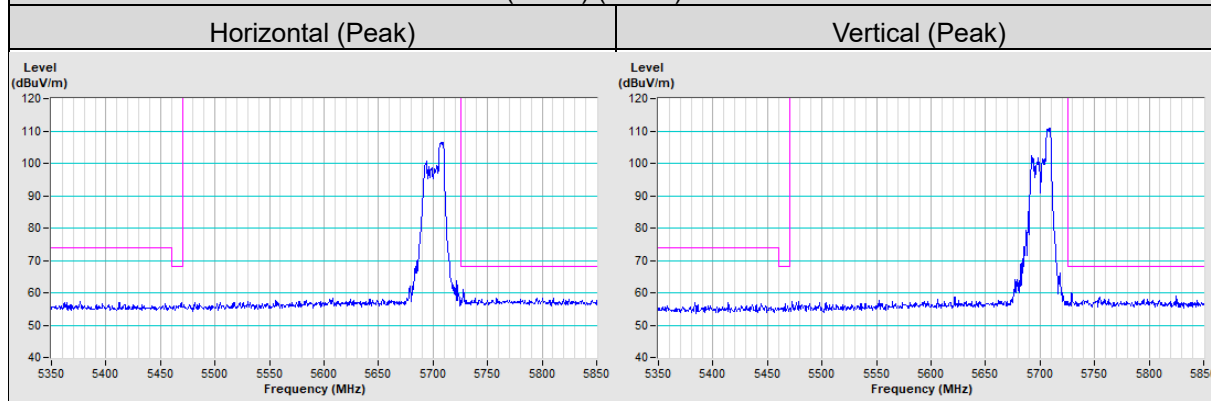




802.11ax (HE20) (RU52) Channel 100

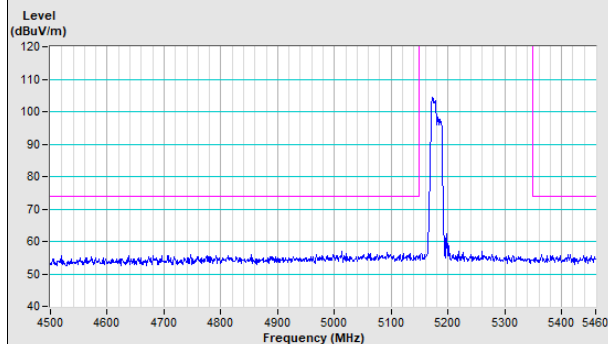


802.11ax (HE20) (RU52) Channel 140

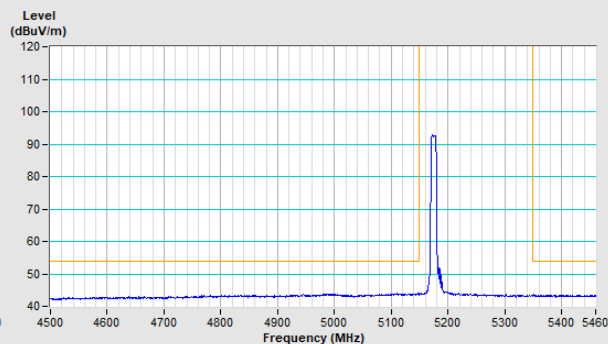


802.11ax (HE20) (RU106) Channel 36

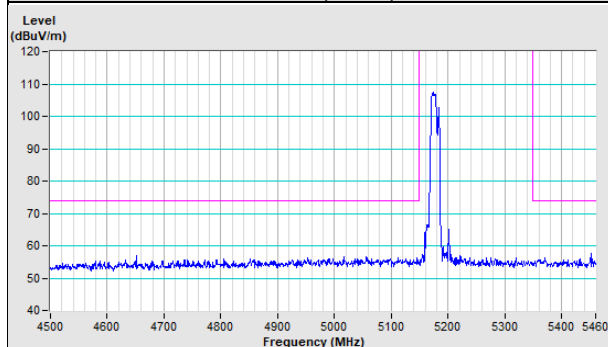
Horizontal (Peak)



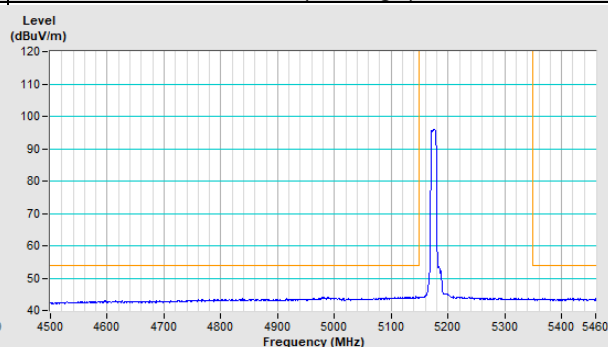
Horizontal (Average)



Vertical (Peak)

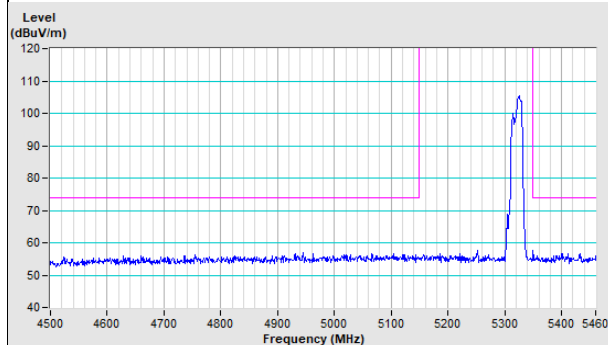


Vertical (Average)

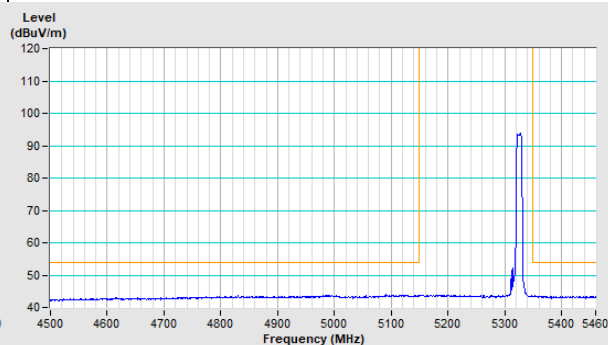


802.11ax (HE20) (RU106) Channel 64

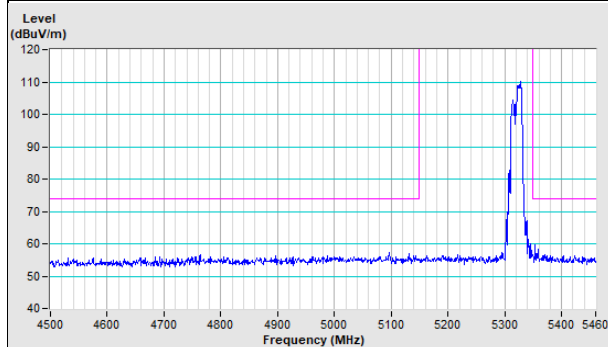
Horizontal (Peak)



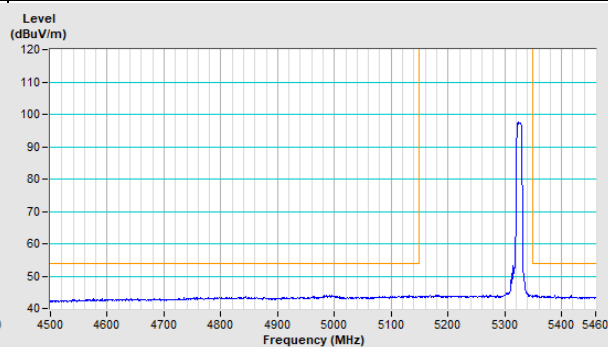
Horizontal (Average)

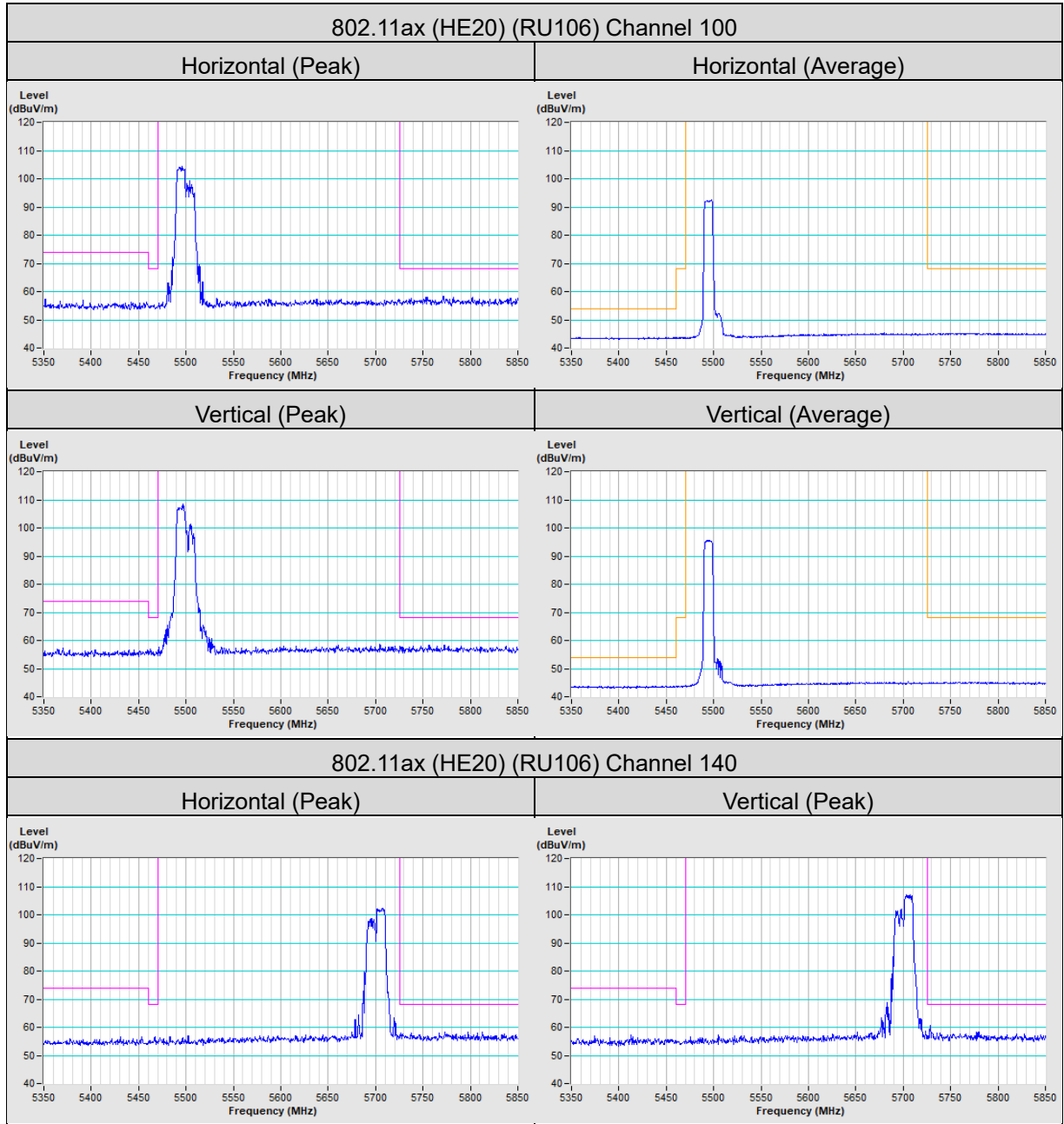


Vertical (Peak)



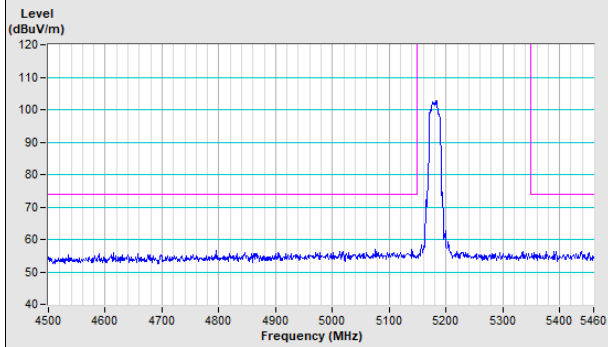
Vertical (Average)



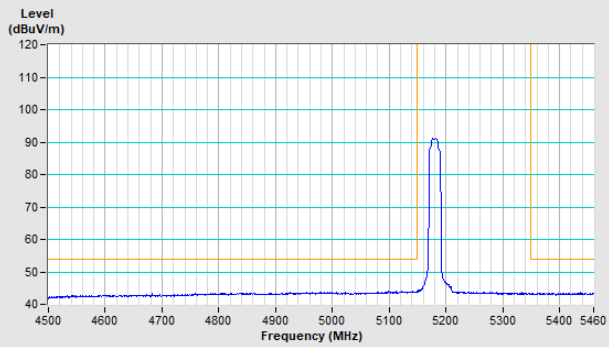


802.11ax (HE40) (RU242) Channel 38

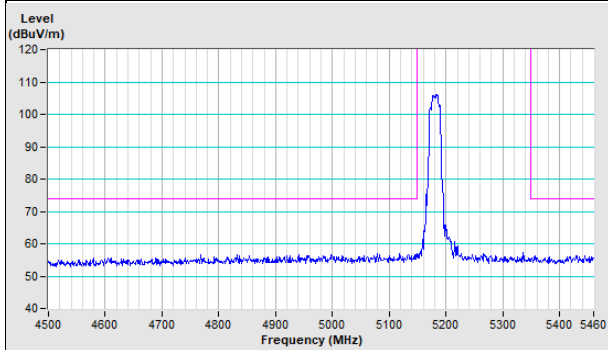
Horizontal (Peak)



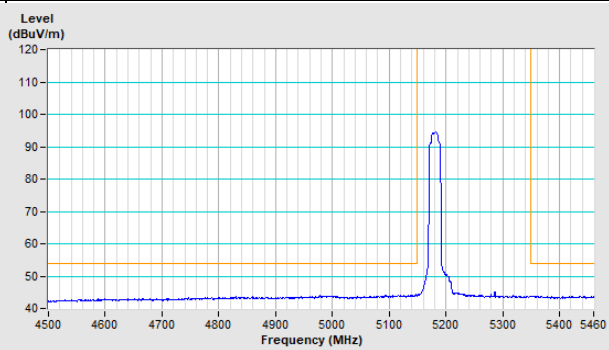
Horizontal (Average)



Vertical (Peak)

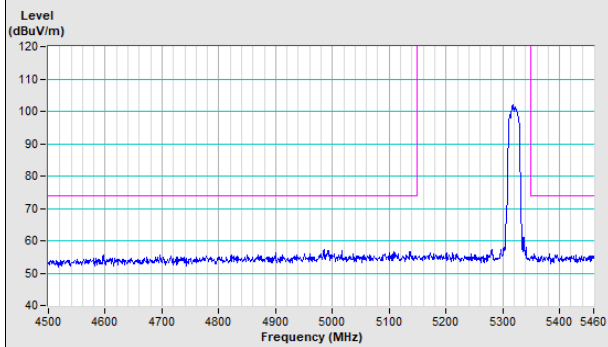


Vertical (Average)

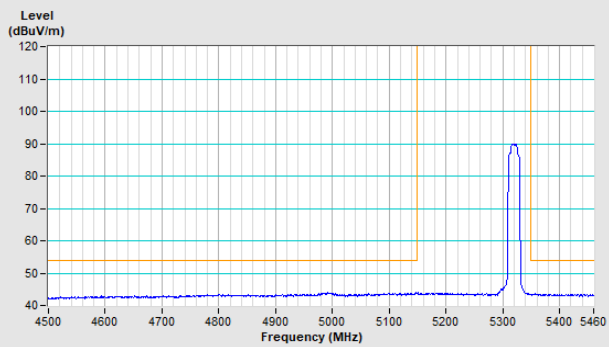


802.11ax (HE40) (RU242) Channel 62

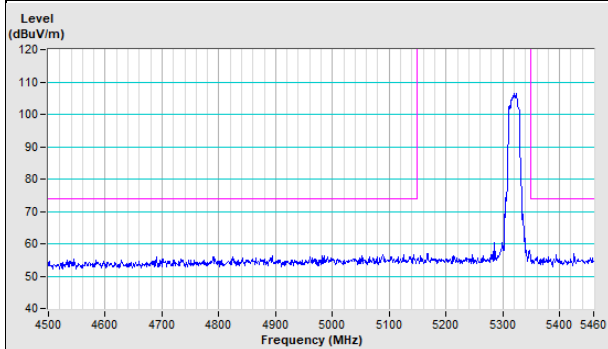
Horizontal (Peak)



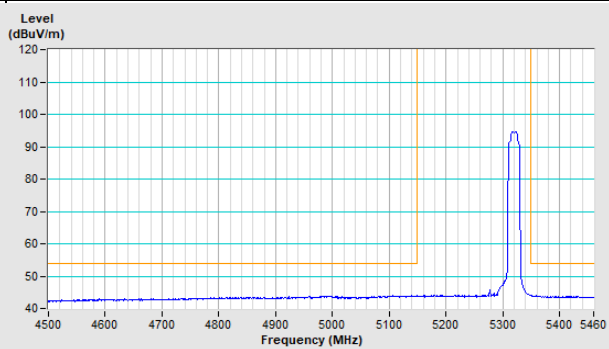
Horizontal (Average)



Vertical (Peak)

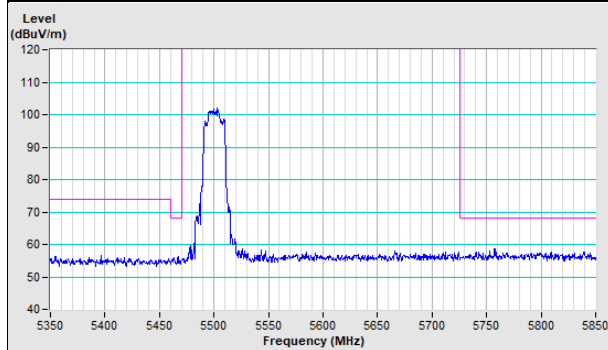


Vertical (Average)

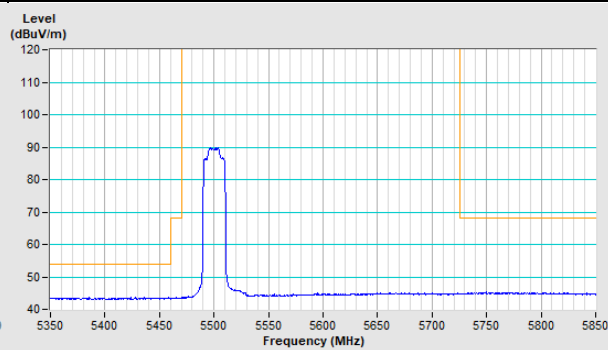


802.11ax (HE40) (RU242) Channel 102

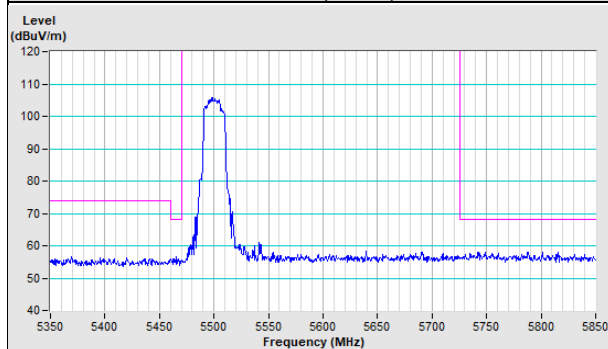
Horizontal (Peak)



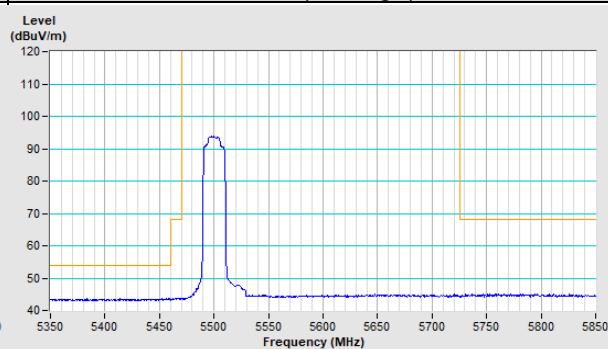
Horizontal (Average)



Vertical (Peak)

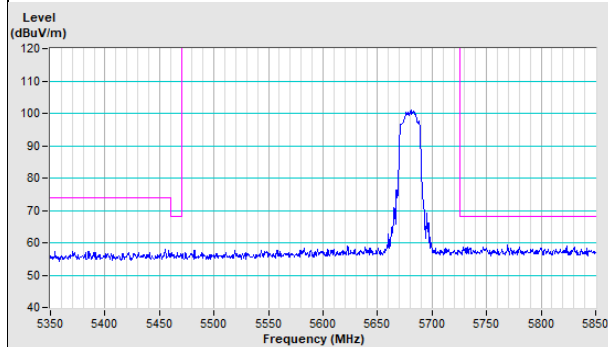


Vertical (Average)

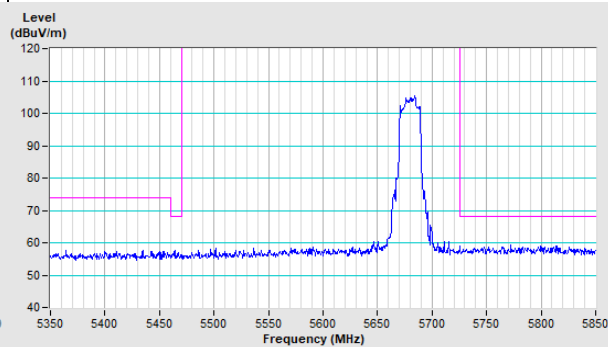


802.11ax (HE40) (RU242) Channel 134

Horizontal (Peak)

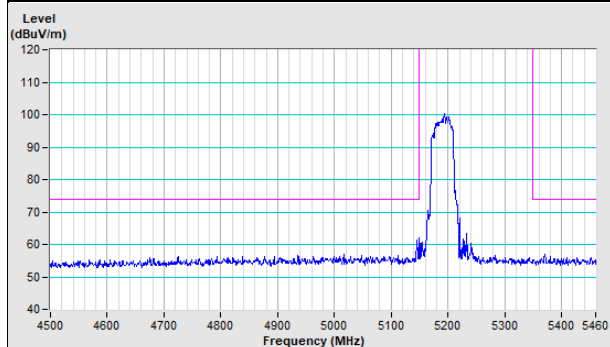


Vertical (Peak)

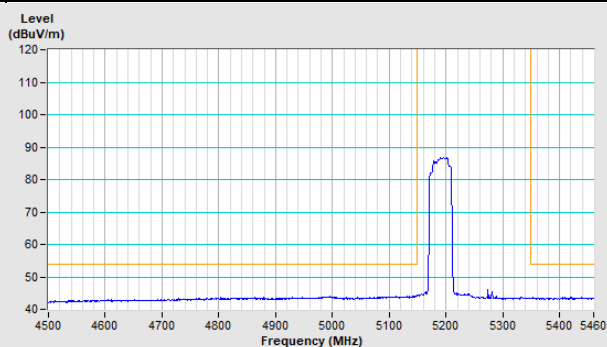


802.11ax (HE80) (RU484) Channel 42

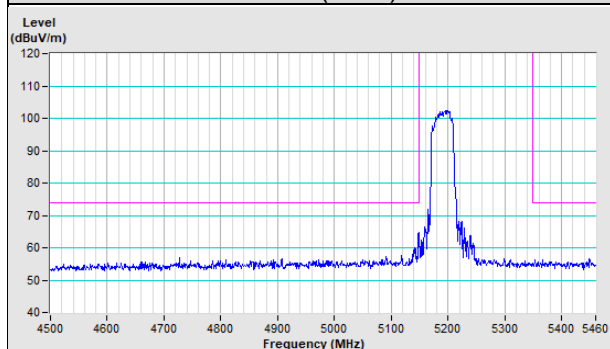
Horizontal (Peak)



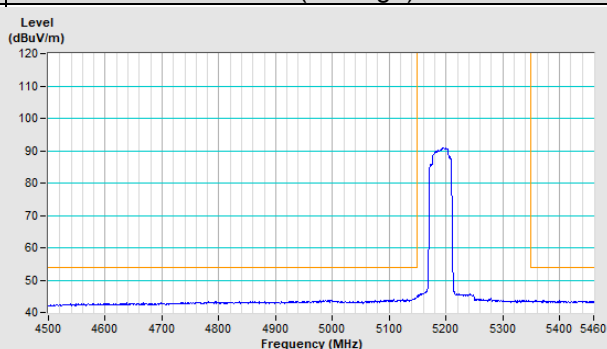
Horizontal (Average)



Vertical (Peak)

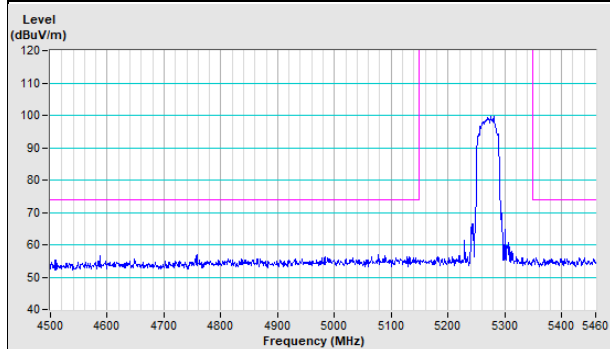


Vertical (Average)

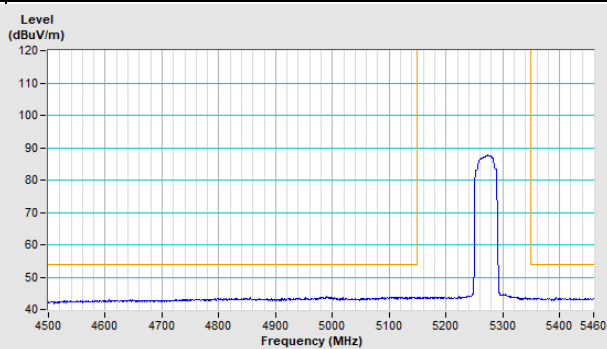


802.11ax (HE80) (RU484) Channel 58

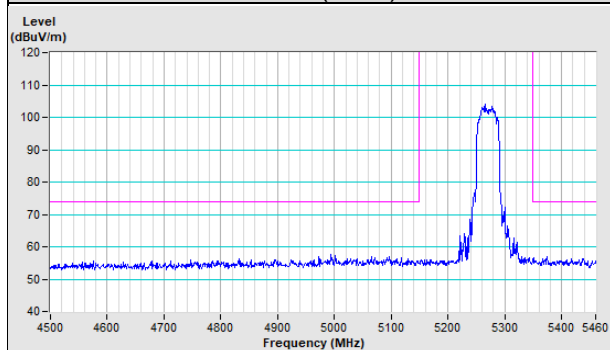
Horizontal (Peak)



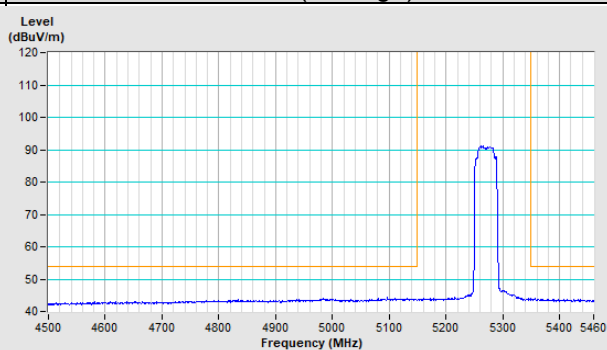
Horizontal (Average)



Vertical (Peak)

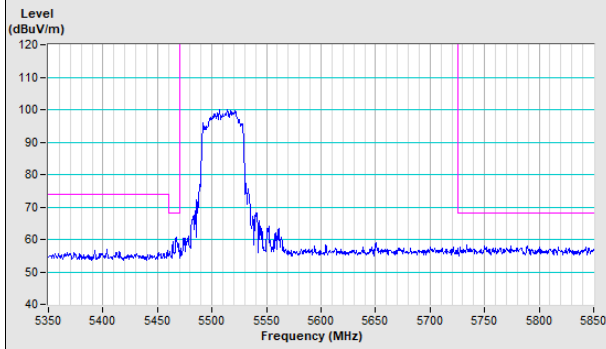


Vertical (Average)

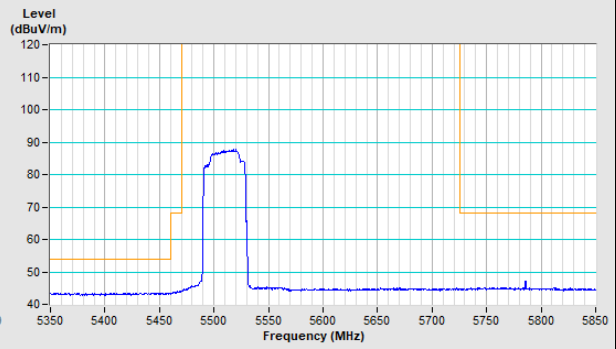


802.11ax (HE80) (RU484) Channel 106

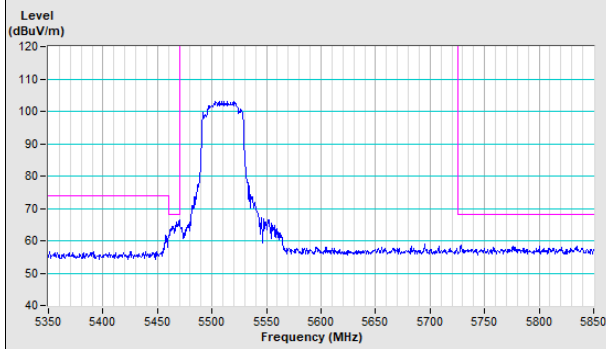
Horizontal (Peak)



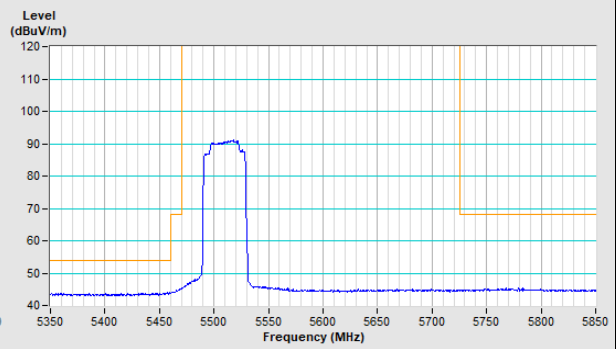
Horizontal (Average)



Vertical (Peak)

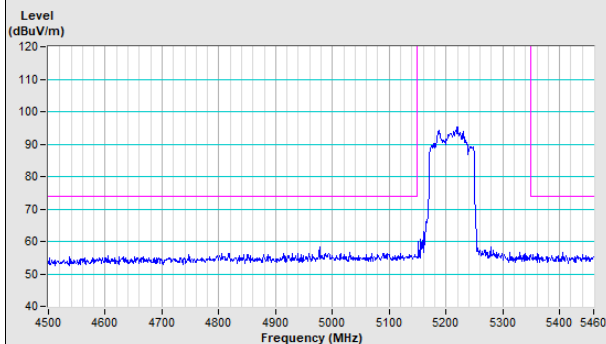


Vertical (Average)

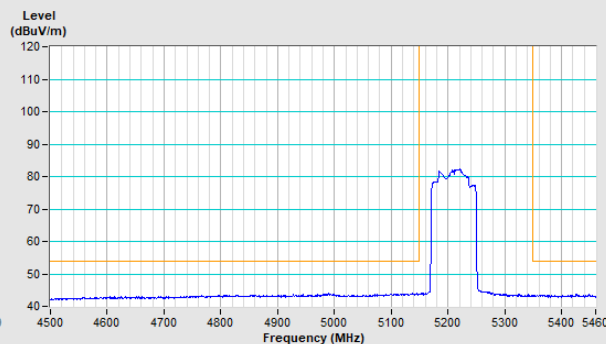


802.11ax (HE160) (RU966) Channel 50

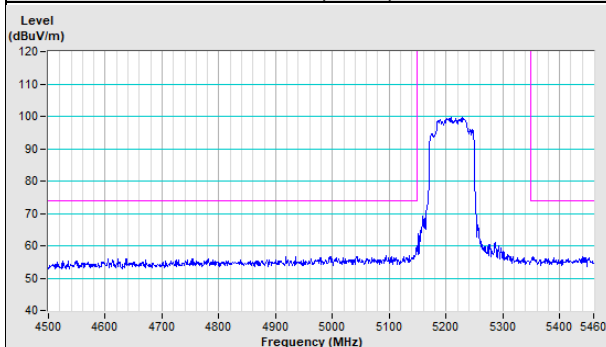
Horizontal (Peak)



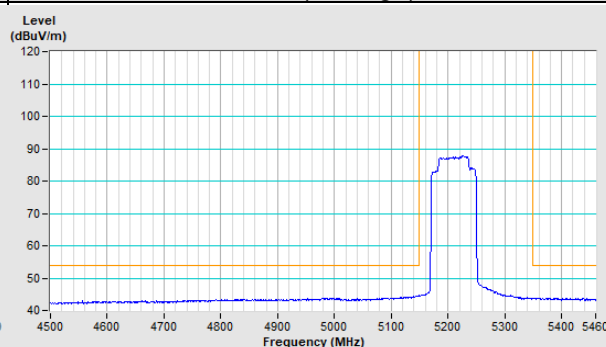
Horizontal (Average)



Vertical (Peak)

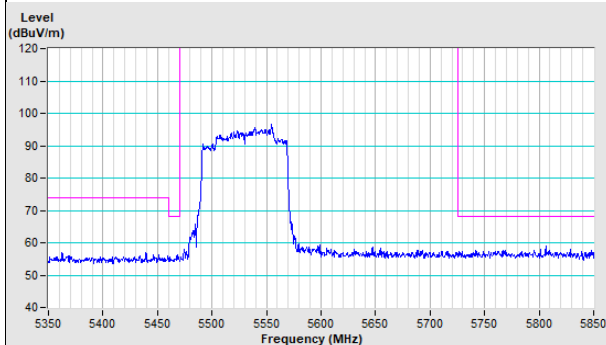


Vertical (Average)

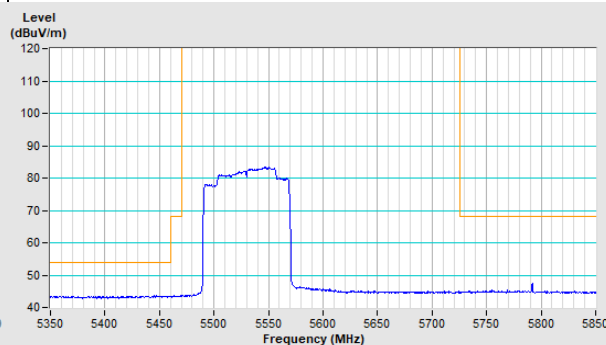


802.11ax (HE160) (RU966) Channel 114

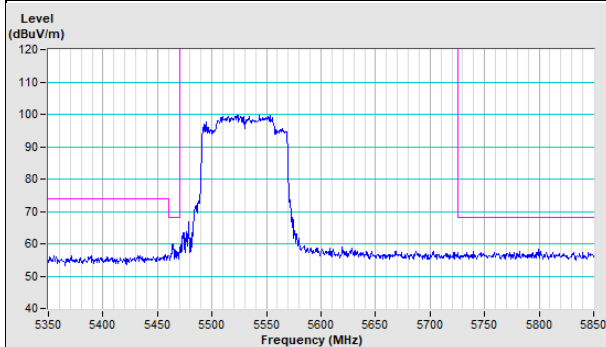
Horizontal (Peak)



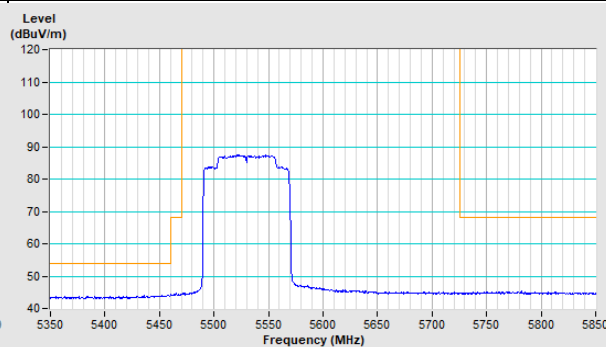
Horizontal (Average)



Vertical (Peak)

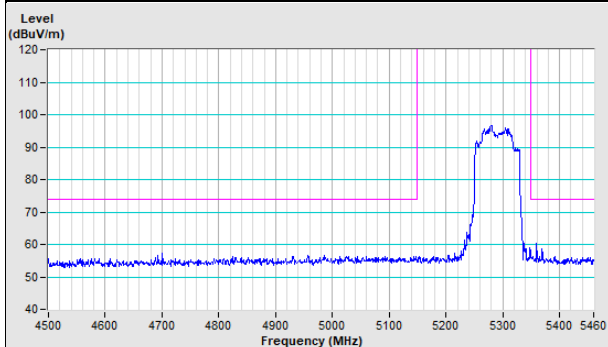


Vertical (Average)

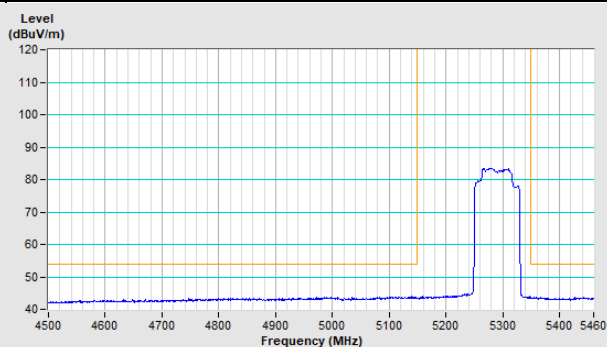


802.11ax (HE160) (RU966S) Channel 50

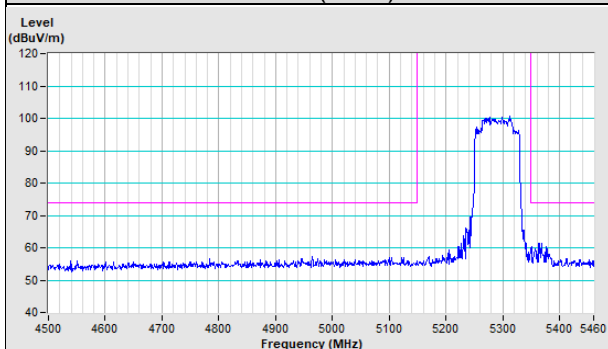
Horizontal (Peak)



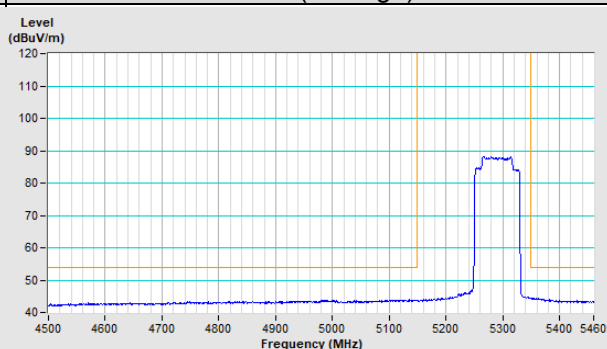
Horizontal (Average)



Vertical (Peak)

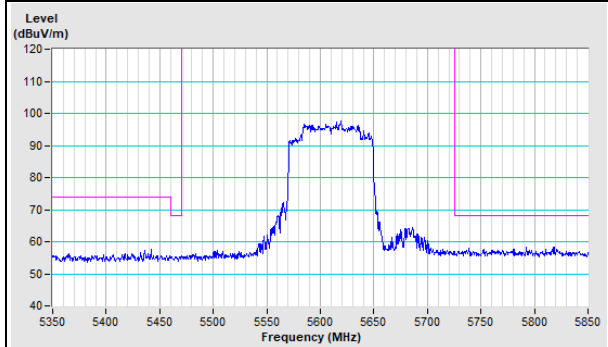


Vertical (Average)

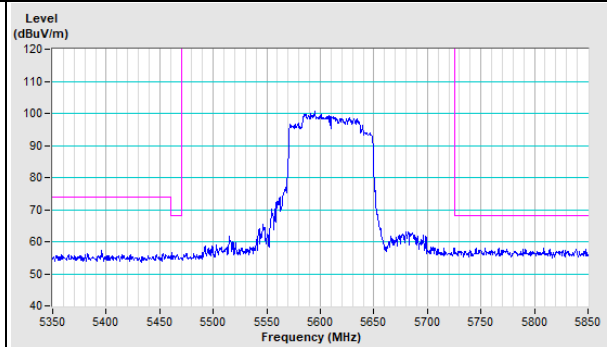


802.11ax (HE160) (RU966S) Channel 114

Horizontal (Peak)



Vertical (Peak)



Appendix – Information of the Testing Laboratories

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

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Web Site: www.bureauveritas-adt.com

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

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