FCC Test Report (WLAN)

Report No.:	RFBEIH-WTW-P20120866-1
FCC ID:	P27DG4244
Test Model:	DG4244
Series Model:	DG4244XXXXXXXXXX (the x could be 0 to 9, A to Z, "blank", "-" or "/" , for marketing purpose)
Received Date:	Dec. 25, 2020
Test Date:	Jan. 7 to Mar. 4, 2021
Issued Date:	Mar. 22, 2021
Applicant:	Sercomm Corp.
Address:	8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C. (NanKang Software Park)
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / Designation Number:	198487 / TW2021

Testing Laboratory
2021

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
RFBEIH-WTW-P20120866-1	Original release	Mar. 22, 2021

1 Certificate of Conformity

Product:	DOCSIS 3.1 WiFi 6 Gateway
Brand:	Sercomm
Test Model:	DG4244
Series Model:	DG4244XXXXXXXXXX (the x could be 0 to 9, A to Z, "blank", "-" or "/" , for marketing purpose)
Sample Status:	Engineering sample
Applicant:	Sercomm Corp.
Test Date:	Jan. 7 to Mar. 4, 2021
Standards:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10:2013

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

Prepared by : Jessica Cheng , **Date:** Mar. 22, 2021

Jessica Cheng / Senior Specialist

Approved by : Rex. Lai , **Date:** Mar. 22, 2021

Rex Lai / Associate Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -14.67dB at 0.15391MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.03dB at 5150.00MHz.
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	No antenna connector is used.

Note:
1. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
2. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
3. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	3.00 dB
Conducted Emissions	9kHz ~ 40GHz	2.63 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	2.61 dB
	30MHz ~ 1GHz	5.43 dB
Radiated Emissions above 1 GHz	Above 1GHz	5.42 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	DOCSIS 3.1 WiFi 6 Gateway
Brand	Sercomm
Test Model	DG4244
Series Model	DG4244XXXXXXXXX (the x could be 0 to 9, A to Z, "blank", "-" or "/" , for marketing purpose)
Model Difference	Marketing Differentiation
Test software Version	DUT_setup.610.32
Sample Status	Engineering sample
Power Supply Rating	12Vdc from Adapter
Modulation Type	802.11a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n (20MHz/40MHz): up to 600Mbps(MCS0 to MCS31) 802.11ac (20MHz/40MHz/80MHz/160MHz): up to 3466.7Mbps (MCS0 to MCS9, NSS=1 to 4) 802.11ax (20MHz/40MHz/80MHz/160MHz): up to 4083.3Mbps (MCS0 to MCS11, NSS=1 to 4)
Operating Frequency	5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz
Number of Channel	5180~5240MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz): 4 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz): 2 802.11ac (80MHz), 802.11ax (80MHz): 1 5260~5320MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz): 4 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz): 2 802.11ac (80MHz), 802.11ax (80MHz): 1 5500~5720MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz): 12 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz): 6 802.11ac (80MHz), 802.11ax (80MHz): 3 5745~5825MHz: 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz): 5 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz): 2 802.11ac (80MHz), 802.11ax (80MHz): 1 5150~5720MHz: 802.11ac (160MHz), 802.11ax (160MHz): 3
Output Power	5180~5240MHz: 595.964mW 5260~5320MHz: 234.622mW 5500~5720MHz: 243.68mW 5745~5825MHz: 784.71mW
Antenna Type	Refer to note
Antenna Connector	Refer to note
Accessory Device	Adapter
Cable Supplied	Non-shielded LAN cable (1.5m)

Note:

1. The EUT provides 4 completed transmitters and 4 receivers.

Modulation Mode	TX Function
802.11a	4TX
802.11n (20MHz)	4TX
802.11n (40MHz)	4TX
802.11ac (20MHz)	4TX
802.11ac (40MHz)	4TX
802.11ac (80MHz)	4TX
802.11ac (160MHz)	4TX
802.11ax (20MHz)	4TX
802.11ax (40MHz)	4TX
802.11ax (80MHz)	4TX
802.11ax (160MHz)	4TX

* The bandwidth and modulation are similar for 20MHz/40MHz on 802.11n mode and 20MHz/40MHz/80MHz/160MHz on 802.11ac mode and 20MHz/40MHz/80MHz/160MHz 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 uses following antenna.

Type	Dipole					
Connector	IPEX					
Antenna	Ant 0 (dBi)	Ant 1 (dBi)	Ant 2 (dBi)	Ant 3 (dBi)	Peak Gain(dBi) for each band	Directional Gain with correlated signal(dBi)
2.4G	3.67	3.76	3.60	3.12	3.76	9.56
5G B1	3.52	2.21	2.01	2.17	3.52	8.52
5G B2	3.90	2.92	2.18	2.62	3.90	8.95
5G B3	3.90	2.92	2.18	2.62	3.90	8.95
5G B4	4.17	2.31	2.32	2.26	4.17	8.82

3. WLAN 2.4GHz + WLAN 5GHz technologies can transmit at same time.

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. The EUT consumes power from a switching power adapter, which has several models could be chosen, as the following:

Adapter	Brand	Model No.	Specification
1	ADP	WA-48B12FU	AC I/P: 100-240V, 50/60Hz, 1.5A DC O/P: 12V, 4A AC 2 Pin Non-shielded DC cable (1.5m)
2	LEI	MU48AY120400-A1	AC I/P: 100-120V, 50/60Hz, 1.5A DC O/P: 12V, 4A AC 2 Pin Non-shielded DC cable (1.5m)

The above two adapters were pre-tested, and Adapter 1 was the worst case for final test.

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 ~ 5240MHz:

4 channels are provided for 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (80MHz), 802.11ax (80MHz):

Channel	Frequency
42	5210MHz

5260~5320MHz:

4 channels are provided for 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz):

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

2 channels are provided for 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (80MHz), 802.11ax (80MHz):

Channel	Frequency
58	5290MHz

5500~5720MHz:

12 channels are provided for 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz):

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 (40MHz), 802.11ac (40MHz), 802.11ax (40MHz):

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 (80MHz), 802.11ax (80MHz):

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

5150~5720MHz:

3 channels are provided for 802.11ac (160MHz), 802.11ax (160MHz):

Channel	Frequency
50 (for 5150~5250MHz)	5250 MHz
50 (for 5250~5350MHz)	5250 MHz
114	5570 MHz

5745~5825MHz:

5 channels are provided for 802.11a, 802.11n (20MHz), 802.11ac (20MHz), 802.11ax (20MHz):

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

2 channels are provided for 802.11n (40MHz), 802.11ac (40MHz), 802.11ax (40MHz):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (80MHz), 802.11ax (80MHz):

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

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	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11ax (20MHz)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (40MHz)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (80MHz)		42	42	OFDMA	MCS0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11ax (20MHz)		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (40MHz)		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (80MHz)		58	58	OFDMA	MCS0
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11ax (20MHz)		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (40MHz)		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (80MHz)		106 to 138	106, 122, 138	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11ax (20MHz)		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (40MHz)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (80MHz)		155	155	OFDMA	MCS0
-	802.11ax (160MHz)	5180-5240 5260-5320 5500-5720	50, 114	50, 114	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 (20MHz)	5180-5240	36 to 48	149	OFDMA	MCS0
-	802.11ax (20MHz)	5260-5320	52 to 64		OFDMA	MCS0
-	802.11ax (20MHz)	5500-5720	100 to 144		OFDMA	MCS0
-	802.11ax (20MHz)	5745-5825	149 to 165		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 (20MHz)	5180-5240	36 to 48	149	OFDMA	MCS0
-	802.11ax (20MHz)	5260-5320	52 to 64		OFDMA	MCS0
-	802.11ax (20MHz)	5500-5720	100 to 144		OFDMA	MCS0
-	802.11ax (20MHz)	5745-5825	149 to 165		OFDMA	MCS0

Antenna Port Conducted Measurement:

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

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

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

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (20MHz)*		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (40MHz)*		38 to 46	38, 46	OFDM	13.5
	802.11ac (20MHz)*		36 to 48	36, 40, 48	OFDM	6.5
	802.11ac (40MHz)*		38 to 46	38, 46	OFDM	13.5
	802.11ac (80MHz)*		42	42	OFDM	MCS0
	802.11ax (20MHz)		36 to 48	36, 40, 48	OFDMA	MCS0
	802.11ax (40MHz)		38 to 46	38, 46	OFDMA	MCS0
	802.11ax (80MHz)		42	42	OFDMA	MCS0
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (20MHz)*		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (40MHz)*		54 to 62	54, 62	OFDM	13.5
	802.11ac (20MHz)*		52 to 64	52, 60, 64	OFDM	6.5
	802.11ac (40MHz)*		54 to 62	54, 62	OFDM	13.5
	802.11ac (80MHz)*		58	58	OFDM	MCS0
	802.11ax (20MHz)		52 to 64	52, 60, 64	OFDMA	MCS0
	802.11ax (40MHz)		54 to 62	54, 62	OFDMA	MCS0
	802.11ax (80MHz)		58	58	OFDMA	MCS0

*802.11ac (20MHz), 802.11ac (40MHz), 802.11ac (80MHz) are for Conducted Output Power Measurement only.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11n (20MHz)*		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11n (40MHz)*		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (20MHz)*		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11ac (40MHz)*		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (80MHz)*		106 to 138	106, 122, 138	OFDM	MCS0
	802.11ax (20MHz)		100 to 144	100, 116, 140, 144	OFDMA	MCS0
	802.11ax (40MHz)		102 to 142	102, 110, 134, 142	OFDMA	MCS0
	802.11ax (80MHz)		106 to 138	106, 122, 138	OFDMA	MCS0
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (20MHz)*		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (40MHz)*		151 to 159	151, 159	OFDM	13.5
	802.11ac (20MHz)*		149 to 165	149, 157, 165	OFDM	6.5
	802.11ac (40MHz)*		151 to 159	151, 159	OFDM	13.5
	802.11ac (80MHz)*		155	155	OFDM	MCS0
	802.11ax (20MHz)		149 to 165	149, 157, 165	OFDMA	MCS0
	802.11ax (40MHz)		151 to 159	151, 159	OFDMA	MCS0
	802.11ax (80MHz)		155	155	OFDMA	MCS0
-	802.11ac (160MHz)	5180-5240 5260-5320 5500-5720	50, 114	50, 114	OFDMA	MCS0
	802.11ax (160MHz)	5180-5240 5260-5320 5500-5720	50, 114	50, 114	OFDMA	MCS0

*802.11ac (20MHz), 802.11ac (40MHz), 802.11ac (80MHz) , 802.11ac (160MHz) are for Conducted Output Power Measurement only.

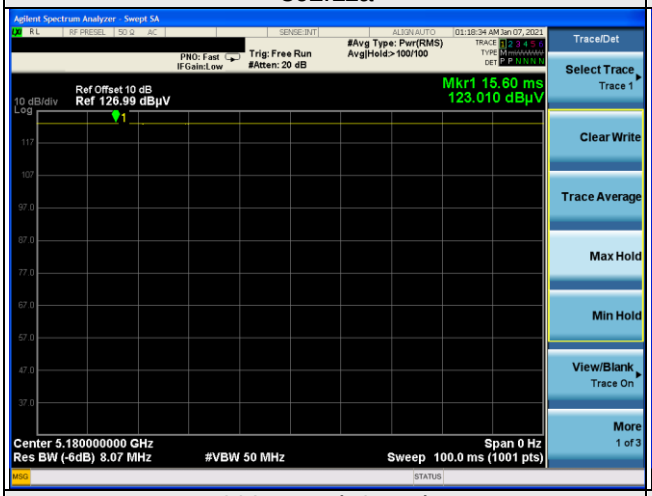
Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	16deg. C, 75%RH, 10deg. C, 64%RH, 15deg. C, 76%RH	120Vac, 60Hz	Dalen Dai
RE<1G	16deg. C, 75%RH	120Vac, 60Hz	Dalen Dai
PLC	25deg. C, 75%RH	120Vac, 60Hz	Dalen Dai
APCM	25deg. C, 76%RH	120Vac, 60Hz	Pirar Hsieh

3.3 Duty Cycle of Test Signal

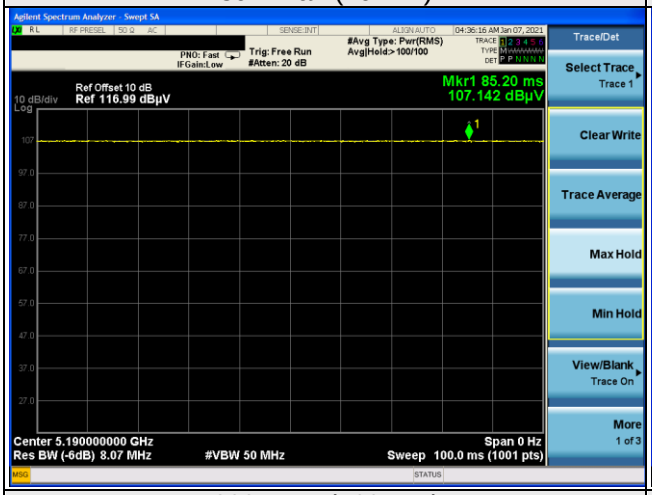
Duty cycle of test signal is ≥ 98 %, duty factor is not required.
802.11a: Duty cycle = 100%
802.11ax (20MHz): Duty cycle = 100%
802.11ax (40MHz): Duty cycle = 100%
802.11ax (80MHz): Duty cycle = 100%
802.11ax (160MHz): Duty cycle = 100%

802.11a

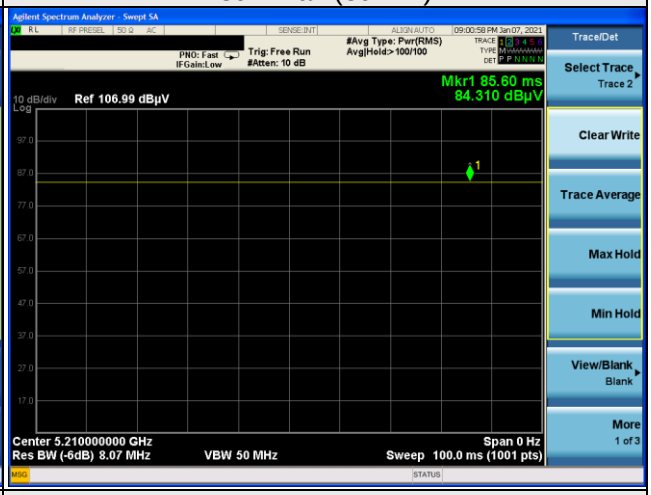


802.11ax (20MHz)

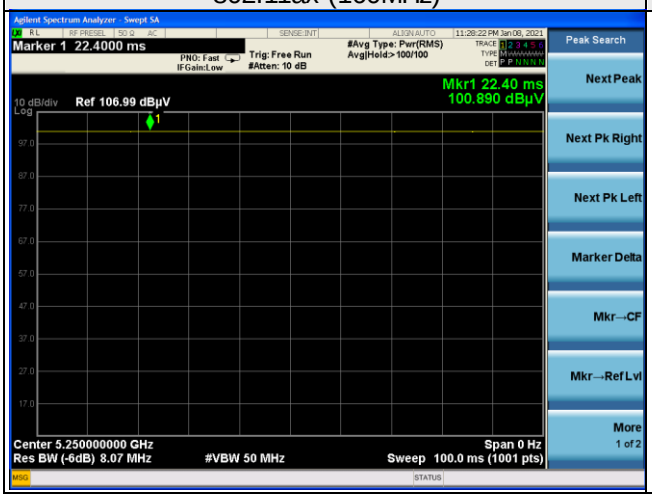
802.11ax (40MHz)



802.11ax (80MHz)



802.11ax (160MHz)



3.4 Description of Support Units

The ET 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.

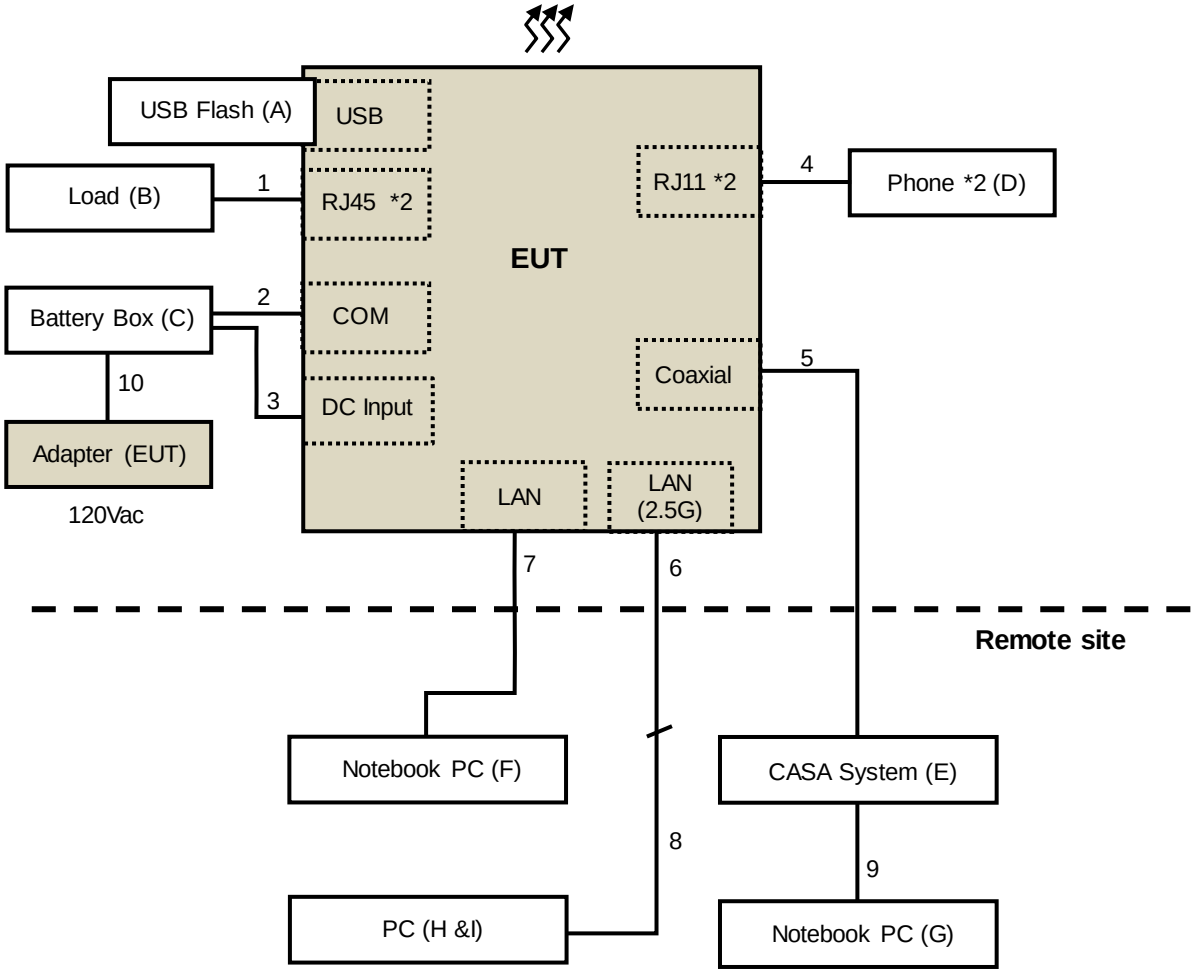
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	USB Flash	SANDISK	16GB	N/A	N/A	Provided by Lab
B.	Load	N/A	N/A	N/A	N/A	Provided by Lab
C.	Battery Box	N/A	N/A	N/A	N/A	Supplied by client
D.	Phone	WONDER	IS-333	06014	N/A	Provided by Lab
	Phone	WONDER	IS-333	06004	N/A	Provided by Lab
E.	CASA System	N/A	C2200	N/A	N/A	Supplied by client
F.	Notebook PC	DELL	P41G	GT4W952	N/A	Provided by Lab
G.	Notebook PC	DELL	E6440	N/A	N/A	Supplied by client
H.	PC	DELL	VOSTRO 470	JTBJYBX	N/A	Provided by Lab
I.	LAN Card	ASUS	XG-C100C	H4QSRT000277	N/A	Provided by Lab

Note:
1. All power cords of the above support units are non-shielded (1.8m).
2. Items E~I acted as communication partners to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN Cable	2	1.8	N	0	Provided by Lab (RJ45,CAT.5e)
2.	COM (Audio) Cable	1	0.2	N	0	Provided by Lab
3.	DC Cable	1	1.8	N	0	Provided by Lab
4.	RJ11 Cable	2	1.8	N	0	Provided by Lab
5.	Coaxial Cable	1	10	Y	0	Provided by Lab
6.	LAN Cable	1	1.5	N	0	Supplied by client (RJ45,CAT.5e)
7.	LAN Cable	1	10	N	0	Provided by Lab (RJ45,CAT.5e)
8.	LAN Cable	1	10	N	0	Provided by Lab (RJ45,CAT.5e)
9.	LAN Cable	1	1.8	N	0	Provided by Lab (RJ45,CAT.5e)
10.	DC Cable	1	1.8	N	0	Supplied by client

Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

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

Test standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10:2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

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

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

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

4.1.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
HP Preamplifier	8447D	2432A03504	Feb. 19, 2020	Feb. 18, 2021
			Feb. 18, 2021	Feb. 17, 2022
HP Preamplifier	8449B	3008A01201	Feb. 20, 2020	Feb. 19, 2021
			Feb. 19, 2021	Feb. 18, 2022
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 19, 2020	Feb. 18, 2021
			Feb. 18, 2021	Feb. 17, 2022
Agilent TEST RECEIVER	N9038A	MY51210129	Mar. 18, 2020	Mar. 17, 2021
Schwarzbeck Antenna	VULB 9168	139	Nov. 6, 2020	Nov. 5, 2021
Schwarzbeck Antenna	VHBA 9123	480	Jun. 3, 2019	Jun. 2, 2021
Schwarzbeck Horn Antenna	BBHA-9170	212	Nov. 22, 2020	Nov. 21, 2021
EMCO Horn Antenna	3115	00027024	Nov. 22, 2020	Nov.21, 2021
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF102	Cable-CH6-01	Jul. 9, 2020	Jul. 8, 2021
EMEC RF cable With 3/4dB PAD	EM102-KMKM	01	Aug. 21, 2020	Aug. 20, 2021
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 16, 2020	Jun. 15, 2021
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Jul. 22, 2020	Jul. 21, 2021
Loop Antenna EMCI	LPA600	270	Aug. 23, 2019	Aug. 22, 2021
EMCO Horn Antenna	3115	00028257	Nov. 22, 2020	Nov. 21, 2021
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 8, 2020	Sep. 7, 2021
Anritsu Power Sensor	MA2411B	0738404	Apr. 13, 2020	Apr. 12, 2021
Anritsu Power Meter	ML2495A	0842014	Apr. 13, 2020	Apr. 12, 2021

NOTE: 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Chamber No. 6.

4.1.3 Test Procedures

For Radiated emission below 30MHz

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

Note:

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

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

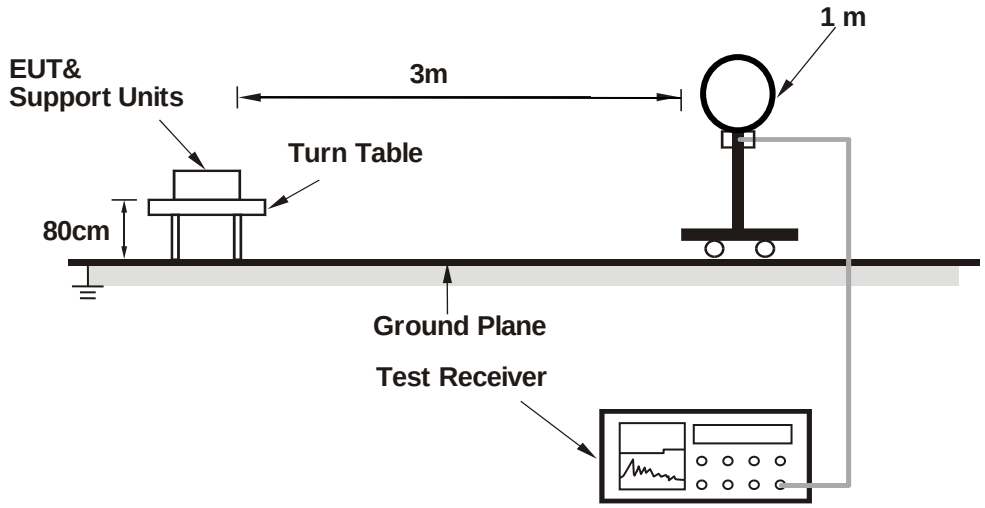
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz. (802.11a: RBW = 1MHz, VBW = 10Hz; 802.11ax (20MHz): RBW = 1MHz, VBW = 10Hz; 802.11ax (40MHz): RBW = 1MHz, VBW = 10Hz; 802.11ax (80MHz): RBW = 1MHz, VBW = 10Hz; 802.11ax (160MHz): RBW = 1MHz, VBW = 10Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

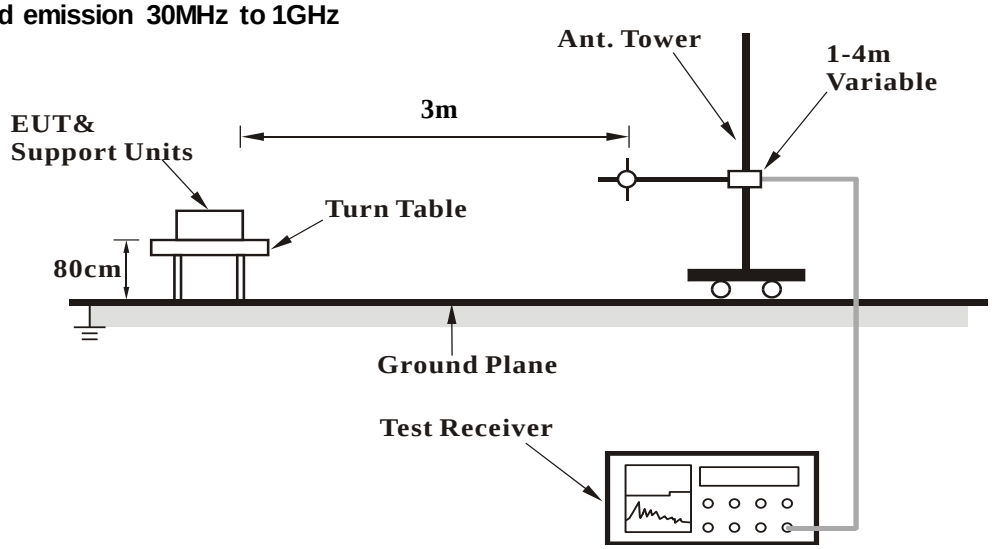
No deviation.

4.1.5 Test Setup

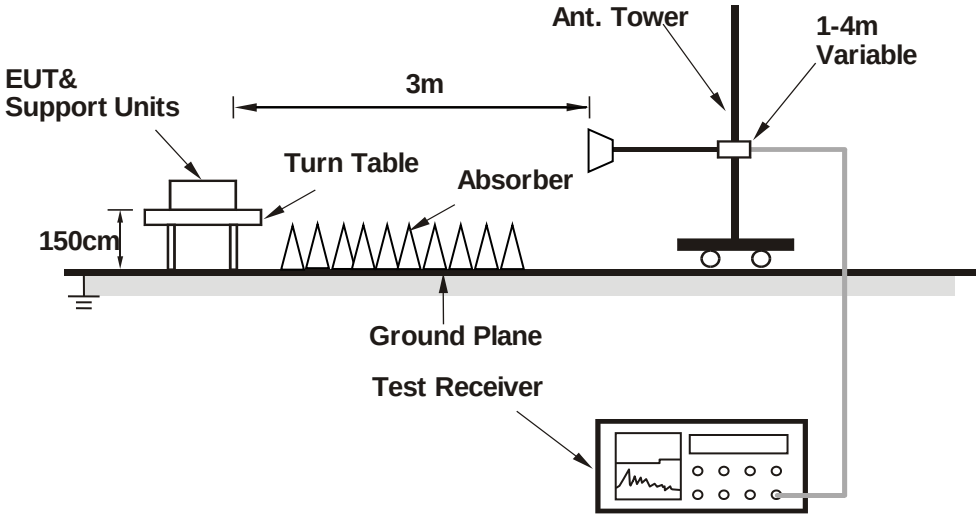
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

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

4.1.7 Test Results

Above 1GHz data:

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	65.23 PK	74.00	-8.77	2.38 H	271	55.22	10.01
2	5150.00	52.89 AV	54.00	-1.11	2.38 H	271	42.88	10.01
3	*5180.00	118.32 PK			2.38 H	271	108.25	10.07
4	*5180.00	110.99 AV			2.38 H	271	100.92	10.07
5	#10360.00	57.27 PK	68.20	-10.93	1.93 H	334	41.09	16.18
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	64.47 PK	74.00	-9.53	3.01 V	128	54.46	10.01
2	5150.00	52.33 AV	54.00	-1.67	3.01 V	128	42.32	10.01
3	*5180.00	116.57 PK			3.01 V	128	106.50	10.07
4	*5180.00	109.89 AV			3.01 V	128	99.82	10.07
5	#10360.00	57.36 PK	68.20	-10.84	1.67 V	294	41.18	16.18

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	5150.00	64.37 PK	74.00	-9.63	1.86 H	271	54.36	10.01
2	5150.00	52.77 AV	54.00	-1.23	1.86 H	271	42.76	10.01
3	*5200.00	120.05 PK			1.86 H	271	109.95	10.10
4	*5200.00	112.86 AV			1.86 H	271	102.76	10.10
5	#10400.00	57.49 PK	68.20	-10.71	1.89 H	338	41.29	16.20
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	63.81 PK	74.00	-10.19	2.84 V	131	53.80	10.01
2	5150.00	51.95 AV	54.00	-2.05	2.84 V	131	41.94	10.01
3	*5200.00	118.28 PK			2.84 V	131	108.18	10.10
4	*5200.00	110.92 AV			2.84 V	131	100.82	10.10
5	#10400.00	57.33 PK	68.20	-10.87	1.62 V	285	41.13	16.20

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	123.64 PK			1.99 H	248	113.37	10.27
2	*5240.00	116.42 AV			1.99 H	248	106.15	10.27
3	5350.00	61.89 PK	74.00	-12.11	1.99 H	248	50.90	10.99
4	5350.00	50.64 AV	54.00	-3.36	1.99 H	248	39.65	10.99
5	#10480.00	57.61 PK	68.20	-10.59	1.82 H	331	41.47	16.14
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	121.84 PK			1.43 V	131	111.57	10.27
2	*5240.00	114.27 AV			1.43 V	131	104.00	10.27
3	5350.00	61.48 PK	74.00	-12.52	1.43 V	131	50.49	10.99
4	5350.00	50.16 AV	54.00	-3.84	1.43 V	131	39.17	10.99
5	#10480.00	57.40 PK	68.20	-10.80	1.59 V	290	41.26	16.14

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	60.66 PK	74.00	-13.34	1.77 H	249	50.65	10.01
2	5150.00	50.38 AV	54.00	-3.62	1.77 H	249	40.37	10.01
3	*5260.00	119.00 PK			1.77 H	249	108.62	10.38
4	*5260.00	112.10 AV			1.77 H	249	101.72	10.38
5	#10520.00	57.32 PK	68.20	-10.88	1.91 H	319	41.23	16.09
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.47 PK	74.00	-13.53	2.44 V	347	50.46	10.01
2	5150.00	50.16 AV	54.00	-3.84	2.44 V	347	40.15	10.01
3	*5260.00	118.06 PK			2.44 V	347	107.68	10.38
4	*5260.00	111.18 AV			2.44 V	347	100.80	10.38
5	#10520.00	57.27 PK	68.20	-10.93	1.64 V	279	41.18	16.09

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	119.21 PK			1.58 H	242	108.54	10.67
2	*5300.00	112.45 AV			1.58 H	242	101.78	10.67
3	10600.00	57.56 PK	74.00	-16.44	1.95 H	324	41.61	15.95
4	10600.00	46.79 AV	54.00	-7.21	1.95 H	324	30.84	15.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	118.53 PK			2.39 V	134	107.86	10.67
2	*5300.00	111.64 AV			2.39 V	134	100.97	10.67
3	10600.00	57.31 PK	74.00	-16.69	1.62 V	281	41.36	15.95
4	10600.00	46.53 AV	54.00	-7.47	1.62 V	281	30.58	15.95

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	119.41 PK			1.49 H	259	108.61	10.80
2	*5320.00	112.62 AV			1.49 H	259	101.82	10.80
3	5350.00	65.53 PK	74.00	-8.47	1.49 H	259	54.54	10.99
4	5350.00	52.41 AV	54.00	-1.59	1.49 H	259	41.42	10.99
5	10640.00	57.60 PK	74.00	-16.40	1.93 H	327	41.46	16.14
6	10640.00	46.76 AV	54.00	-7.24	1.93 H	327	30.62	16.14
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	116.78 PK			3.06 V	274	105.98	10.80
2	*5320.00	109.94 AV			3.06 V	274	99.14	10.80
3	5350.00	64.41 PK	74.00	-9.59	3.06 V	274	53.42	10.99
4	5350.00	51.92 AV	54.00	-2.08	3.06 V	274	40.93	10.99
5	10640.00	57.41 PK	74.00	-16.59	1.67 V	275	41.27	16.14
6	10640.00	46.50 AV	54.00	-7.50	1.67 V	275	30.36	16.14

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	62.57 PK	74.00	-11.43	1.49 H	270	50.97	11.60
2	5460.00	51.66 AV	54.00	-2.34	1.49 H	270	40.06	11.60
3	#5470.00	63.31 PK	68.20	-4.89	1.49 H	270	51.64	11.67
4	*5500.00	118.61 PK			1.49 H	270	106.77	11.84
5	*5500.00	100.99 AV			1.49 H	270	89.15	11.84
6	11000.00	57.49 PK	74.00	-16.51	1.92 H	320	40.51	16.98
7	11000.00	46.65 AV	54.00	-7.35	1.92 H	320	29.67	16.98
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.98 PK	74.00	-12.02	2.21 V	348	50.38	11.60
2	5460.00	51.15 AV	54.00	-2.85	2.21 V	348	39.55	11.60
3	#5470.00	62.71 PK	68.20	-5.49	2.21 V	348	51.04	11.67
4	*5500.00	116.04 PK			2.21 V	348	104.20	11.84
5	*5500.00	108.92 AV			2.21 V	348	97.08	11.84
6	11000.00	57.38 PK	74.00	-16.62	1.57 V	267	40.40	16.98
7	11000.00	46.53 AV	54.00	-7.47	1.57 V	267	29.55	16.98

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	119.03 PK			1.51 H	256	107.89	11.14
2	*5580.00	101.24 AV			1.51 H	256	90.10	11.14
3	11160.00	57.46 PK	74.00	-16.54	1.94 H	317	39.64	17.82
4	11160.00	46.73 AV	54.00	-7.27	1.94 H	317	28.91	17.82
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	116.29 PK			2.38 V	129	105.15	11.14
2	*5580.00	109.07 AV			2.38 V	129	97.93	11.14
3	11160.00	57.35 PK	74.00	-16.65	1.55 V	269	39.53	17.82
4	11160.00	46.50 AV	54.00	-7.50	1.55 V	269	28.68	17.82

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	120.68 PK			1.70 H	278	109.93	10.75
2	*5700.00	113.75 AV			1.70 H	278	103.00	10.75
3	#5725.00	66.54 PK	68.20	-1.66	1.70 H	278	55.83	10.71
4	11400.00	57.61 PK	74.00	-16.39	1.96 H	325	39.66	17.95
5	11400.00	46.83 AV	54.00	-7.17	1.96 H	325	28.88	17.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.35 PK			1.38 V	262	106.60	10.75
2	*5700.00	109.93 AV			1.38 V	262	99.18	10.75
3	#5725.00	65.86 PK	68.20	-2.34	1.38 V	262	55.15	10.71
4	11400.00	57.49 PK	74.00	-16.51	1.58 V	277	39.54	17.95
5	11400.00	46.71 AV	54.00	-7.29	1.58 V	277	28.76	17.95

Remarks:

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

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.81 PK	68.20	-6.39	1.50 H	259	50.14	11.67
2	*5720.00	120.55 PK			1.50 H	259	109.82	10.73
3	*5720.00	113.69 AV			1.50 H	259	102.96	10.73
4	11440.00	57.66 PK	74.00	-16.34	1.98 H	319	39.46	18.20
5	11440.00	46.89 AV	54.00	-7.11	1.98 H	319	28.69	18.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.68 PK	68.20	-6.52	2.27 V	133	50.01	11.67
2	*5720.00	117.04 PK			2.27 V	133	106.31	10.73
3	*5720.00	109.68 AV			2.27 V	133	98.95	10.73
4	11440.00	57.53 PK	74.00	-16.47	1.62 V	274	39.33	18.20
5	11440.00	46.78 AV	54.00	-7.22	1.62 V	274	28.58	18.20

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	#5623.62	63.53 PK	68.20	-4.67	1.50 H	267	52.64	10.89
2	*5745.00	126.63 PK			1.50 H	267	115.94	10.69
3	*5745.00	119.11 AV			1.50 H	267	108.42	10.69
4	#5997.45	63.80 PK	68.20	-4.40	1.50 H	267	52.82	10.98
5	11490.00	58.08 PK	74.00	-15.92	1.91 H	325	39.56	18.52
6	11490.00	47.91 AV	54.00	-6.09	1.91 H	325	29.39	18.52
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	#5648.32	62.80 PK	68.20	-5.40	1.50 V	258	51.97	10.83
2	*5745.00	122.98 PK			1.50 V	258	112.29	10.69
3	*5745.00	115.42 AV			1.50 V	258	104.73	10.69
4	#5968.95	62.96 PK	68.20	-5.24	1.50 V	258	52.09	10.87
5	11490.00	57.91 PK	74.00	-16.09	1.65 V	283	39.39	18.52
6	11490.00	47.80 AV	54.00	-6.20	1.65 V	283	29.28	18.52

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	#5648.32	62.87 PK	68.20	-5.33	1.24 H	266	52.04	10.83
2	*5785.00	125.73 PK			1.24 H	266	115.10	10.63
3	*5785.00	118.38 AV			1.24 H	266	107.75	10.63
4	#6010.75	62.67 PK	68.20	-5.53	1.24 H	266	51.70	10.97
5	11570.00	58.02 PK	74.00	-15.98	1.96 H	322	39.22	18.80
6	11570.00	47.88 AV	54.00	-6.12	1.96 H	322	29.08	18.80
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	#5648.32	62.26 PK	68.20	-5.94	1.67 V	261	51.43	10.83
2	*5785.00	122.67 PK			1.67 V	261	112.04	10.63
3	*5785.00	115.19 AV			1.67 V	261	104.56	10.63
4	#5952.80	62.79 PK	68.20	-5.41	1.67 V	261	52.00	10.79
5	11570.00	57.85 PK	74.00	-16.15	1.59 V	287	39.05	18.80
6	11570.00	47.73 AV	54.00	-6.27	1.59 V	287	28.93	18.80

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	#5605.57	62.72 PK	68.20	-5.48	1.31 H	269	51.78	10.94
2	*5825.00	125.61 PK			1.31 H	269	115.03	10.58
3	*5825.00	118.23 AV			1.31 H	269	107.65	10.58
4	#5948.05	63.91 PK	68.20	-4.29	1.31 H	269	53.14	10.77
5	11650.00	57.93 PK	74.00	-16.07	1.93 H	327	39.34	18.59
6	11650.00	47.85 AV	54.00	-6.15	1.93 H	327	29.26	18.59
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	#5554.75	62.07 PK	68.20	-6.13	1.58 V	255	50.71	11.36
2	*5825.00	122.87 PK			1.58 V	255	112.29	10.58
3	*5825.00	115.25 AV			1.58 V	255	104.67	10.58
4	#5926.68	63.32 PK	68.20	-4.88	1.58 V	255	52.68	10.64
5	11650.00	57.88 PK	74.00	-16.12	1.63 V	284	39.29	18.59
6	11650.00	46.76 AV	54.00	-7.24	1.63 V	284	28.17	18.59

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 (20MHz)	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	66.31 PK	74.00	-7.69	1.79 H	349	56.30	10.01
2	5150.00	52.93 AV	54.00	-1.07	1.79 H	349	42.92	10.01
3	*5180.00	117.24 PK			1.79 H	349	107.17	10.07
4	*5180.00	108.44 AV			1.79 H	349	98.37	10.07
5	#10360.00	57.30 PK	68.20	-10.90	1.56 H	293	41.12	16.18
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	65.64 PK	74.00	-8.36	1.79 V	261	55.63	10.01
2	5150.00	52.50 AV	54.00	-1.50	1.79 V	261	42.49	10.01
3	*5180.00	116.89 PK			1.79 V	261	106.82	10.07
4	*5180.00	108.03 AV			1.79 V	261	97.96	10.07
5	#10360.00	57.25 PK	68.20	-10.95	1.90 V	337	41.07	16.18

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 (20MHz)	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	5150.00	65.85 PK	74.00	-8.15	1.86 H	269	55.84	10.01
2	**5150.00**	**52.97 AV**	**54.00**	**-1.03**	**1.86 H**	**269**	**42.96**	**10.01**
3	*5200.00	120.34 PK			1.86 H	269	110.24	10.10
4	*5200.00	112.74 AV			1.86 H	269	102.64	10.10
5	#10400.00	57.95 PK	68.20	-10.25	1.94 H	330	41.75	16.20
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	63.98 PK	74.00	-10.02	3.15 V	275	53.97	10.01
2	5150.00	52.55 AV	54.00	-1.45	3.15 V	275	42.54	10.01
3	*5200.00	116.69 PK			3.15 V	275	106.59	10.10
4	*5200.00	110.44 AV			3.15 V	275	100.34	10.10
5	#10400.00	57.63 PK	68.20	-10.57	1.61 V	291	41.43	16.20

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 (20MHz)	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	125.53 PK			1.92 H	268	115.26	10.27
2	*5240.00	117.16 AV			1.92 H	268	106.89	10.27
3	5350.00	61.75 PK	74.00	-12.25	1.92 H	268	50.76	10.99
4	5350.00	50.74 AV	54.00	-3.26	1.92 H	268	39.75	10.99
5	#10480.00	58.13 PK	68.20	-10.07	1.96 H	333	41.99	16.14
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	120.99 PK			1.42 V	131	110.72	10.27
2	*5240.00	114.41 AV			1.42 V	131	104.14	10.27
3	5350.00	60.82 PK	74.00	-13.18	1.42 V	131	49.83	10.99
4	5350.00	49.93 AV	54.00	-4.07	1.42 V	131	38.94	10.99
5	#10480.00	57.69 PK	68.20	-10.51	1.57 V	288	41.55	16.14

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 (20MHz)	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	61.27 PK	74.00	-12.73	1.71 H	253	51.26	10.01
2	5150.00	51.56 AV	54.00	-2.44	1.71 H	253	41.55	10.01
3	*5260.00	118.26 PK			1.71 H	253	107.88	10.38
4	*5260.00	111.65 AV			1.71 H	253	101.27	10.38
5	#10520.00	57.45 PK	68.20	-10.75	1.91 H	322	41.36	16.09
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.97 PK	74.00	-13.03	2.93 V	127	50.96	10.01
2	5150.00	51.35 AV	54.00	-2.65	2.93 V	127	41.34	10.01
3	*5260.00	117.26 PK			2.93 V	127	106.88	10.38
4	*5260.00	108.29 AV			2.93 V	127	97.91	10.38
5	#10520.00	57.34 PK	68.20	-10.86	1.59 V	277	41.25	16.09

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 (20MHz)	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	118.37 PK			1.66 H	247	107.70	10.67
2	*5300.00	111.70 AV			1.66 H	247	101.03	10.67
3	10600.00	57.48 PK	74.00	-16.52	1.94 H	319	41.53	15.95
4	10600.00	46.72 AV	54.00	-7.28	1.94 H	319	30.77	15.95
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	117.19 PK			2.56 V	131	106.52	10.67
2	*5300.00	108.08 AV			2.56 V	131	97.41	10.67
3	10600.00	57.33 PK	74.00	-16.67	1.57 V	275	41.38	15.95
4	10600.00	46.54 AV	54.00	-7.46	1.57 V	275	30.59	15.95

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 (20MHz)	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	120.76 PK			1.61 H	241	109.96	10.80
2	*5320.00	111.86 AV			1.61 H	241	101.06	10.80
3	5350.00	64.85 PK	74.00	-9.15	1.61 H	241	53.86	10.99
4	5350.00	52.87 AV	54.00	-1.13	1.61 H	241	41.88	10.99
5	10640.00	57.59 PK	74.00	-16.41	1.98 H	325	41.45	16.14
6	10640.00	46.85 AV	54.00	-7.15	1.98 H	325	30.71	16.14
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	117.74 PK			2.97 V	283	106.94	10.80
2	*5320.00	100.29 AV			2.97 V	283	89.49	10.80
3	5350.00	64.77 PK	74.00	-9.23	2.97 V	283	53.78	10.99
4	5350.00	52.64 AV	54.00	-1.36	2.97 V	283	41.65	10.99
5	10640.00	57.48 PK	74.00	-16.52	1.61 V	272	41.34	16.14
6	10640.00	46.69 AV	54.00	-7.31	1.61 V	272	30.55	16.14

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 (20MHz)	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	65.02 PK	74.00	-8.98	1.13 H	264	53.42	11.60
2	5460.00	52.91 AV	54.00	-1.09	1.13 H	264	41.31	11.60
3	#5470.00	65.63 PK	68.20	-2.57	1.13 H	264	53.96	11.67
4	*5500.00	120.55 PK			1.13 H	264	108.71	11.84
5	*5500.00	111.39 AV			1.13 H	264	99.55	11.84
6	11000.00	57.73 PK	74.00	-16.27	1.91 H	328	40.75	16.98
7	11000.00	46.89 AV	54.00	-7.11	1.91 H	328	29.91	16.98
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	63.36 PK	74.00	-10.64	2.47 V	340	51.76	11.60
2	5460.00	51.48 AV	54.00	-2.52	2.47 V	340	39.88	11.60
3	#5470.00	65.75 PK	68.20	-2.45	2.47 V	340	54.08	11.67
4	*5500.00	119.45 PK			2.47 V	340	107.61	11.84
5	*5500.00	108.94 AV			2.47 V	340	97.10	11.84
6	11000.00	57.61 PK	74.00	-16.39	1.56 V	270	40.63	16.98
7	11000.00	46.70 AV	54.00	-7.30	1.56 V	270	29.72	16.98

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 (20MHz)	Channel	CH 116：5580 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	120.79 PK			1.47 H	258	109.65	11.14
2	*5580.00	111.56 AV			1.47 H	258	100.42	11.14
3	11160.00	57.81 PK	74.00	-16.19	1.95 H	327	39.99	17.82
4	11160.00	46.96 AV	54.00	-7.04	1.95 H	327	29.14	17.82
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	119.60 PK			2.34 V	275	108.46	11.14
2	*5580.00	109.01 AV			2.34 V	275	97.87	11.14
3	11160.00	57.65 PK	74.00	-16.35	1.58 V	273	39.83	17.82
4	11160.00	46.66 AV	54.00	-7.34	1.58 V	273	28.84	17.82

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 (20MHz)	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	118.64 PK			1.58 H	277	107.89	10.75
2	*5700.00	112.86 AV			1.58 H	277	102.11	10.75
3	#5725.00	66.79 PK	68.20	-1.41	1.58 H	277	56.08	10.71
4	11400.00	57.76 PK	74.00	-16.24	1.92 H	320	39.81	17.95
5	11400.00	46.90 AV	54.00	-7.10	1.92 H	320	28.95	17.95
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	117.91 PK			2.40 V	265	107.16	10.75
2	*5700.00	109.66 AV			2.40 V	265	98.91	10.75
3	#5725.00	64.65 PK	68.20	-3.55	2.40 V	265	53.94	10.71
4	11400.00	57.63 PK	74.00	-16.37	1.62 V	277	39.68	17.95
5	11400.00	46.84 AV	54.00	-7.16	1.62 V	277	28.89	17.95

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 (20MHz)	Channel	CH 144 : 5720 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.69 PK	68.20	-6.51	1.61 H	267	50.02	11.67
2	#5720.00	119.37 PK			1.61 H	267	108.64	10.73
3	#5720.00	103.14 AV			1.61 H	267	92.41	10.73
4	11440.00	57.66 PK	74.00	-16.34	1.98 H	319	39.46	18.20
5	11440.00	46.87 AV	54.00	-7.13	1.98 H	319	28.67	18.20
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.49 PK	68.20	-6.71	2.37 V	261	49.82	11.67
2	#5720.00	117.85 PK			2.37 V	261	107.12	10.73
3	#5720.00	109.54 AV			2.37 V	261	98.81	10.73
4	11440.00	57.61 PK	74.00	-16.39	1.58 V	275	39.41	18.20
5	11440.00	46.78 AV	54.00	-7.22	1.58 V	275	28.58	18.20

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

RF Mode	TX 802.11ax (20MHz)	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	#5610.32	63.58 PK	68.20	-4.62	1.50 H	280	52.66	10.92
2	*5745.00	126.91 PK			1.50 H	280	116.22	10.69
3	*5745.00	118.55 AV			1.50 H	280	107.86	10.69
4	#6009.32	62.82 PK	68.20	-5.38	1.50 H	280	51.85	10.97
5	11490.00	58.11 PK	74.00	-15.89	1.84 H	319	39.59	18.52
6	11490.00	47.96 AV	54.00	-6.04	1.84 H	319	29.44	18.52
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	#5627.90	62.48 PK	68.20	-5.72	1.50 V	258	51.60	10.88
2	*5745.00	123.86 PK			1.50 V	258	113.17	10.69
3	*5745.00	115.24 AV			1.50 V	258	104.55	10.69
4	#6001.25	63.29 PK	68.20	-4.91	1.50 V	258	52.30	10.99
5	11490.00	57.97 PK	74.00	-16.03	1.67 V	281	39.45	18.52
6	11490.00	47.85 AV	54.00	-6.15	1.67 V	281	29.33	18.52

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 (20MHz)	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	#5616.02	62.73 PK	68.20	-5.47	2.00 H	261	51.82	10.91
2	*5785.00	125.87 PK			2.00 H	261	115.24	10.63
3	*5785.00	118.19 AV			2.00 H	261	107.56	10.63
4	#5928.10	63.46 PK	68.20	-4.74	2.00 H	261	52.80	10.66
5	11570.00	58.03 PK	74.00	-15.97	1.82 H	323	39.23	18.80
6	11570.00	47.90 AV	54.00	-6.10	1.82 H	323	29.10	18.80
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	#5625.05	62.07 PK	68.20	-6.13	1.49 V	265	51.18	10.89
2	*5785.00	122.01 PK			1.49 V	265	111.38	10.63
3	*5785.00	114.59 AV			1.49 V	265	103.96	10.63
4	#5941.40	62.97 PK	68.20	-5.23	1.49 V	265	52.23	10.74
5	11570.00	57.92 PK	74.00	-16.08	1.62 V	286	39.12	18.80
6	11570.00	47.78 AV	54.00	-6.22	1.62 V	286	28.98	18.80

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 (20MHz)	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	#5564.73	62.31 PK	68.20	-5.89	1.02 H	263	51.04	11.27
2	*5825.00	126.18 PK			1.02 H	263	115.60	10.58
3	*5825.00	118.03 AV			1.02 H	263	107.45	10.58
4	#5945.68	63.15 PK	68.20	-5.05	1.02 H	263	52.39	10.76
5	11650.00	58.07 PK	74.00	-15.93	1.79 H	327	39.48	18.59
6	11650.00	47.93 AV	54.00	-6.07	1.79 H	327	29.34	18.59
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	#5640.25	63.30 PK	68.20	-4.90	1.41 V	273	52.45	10.85
2	*5825.00	122.56 PK			1.41 V	273	111.98	10.58
3	*5825.00	115.08 AV			1.41 V	273	104.50	10.58
4	#5950.43	63.50 PK	68.20	-4.70	1.41 V	273	52.71	10.79
5	11650.00	57.88 PK	74.00	-16.12	1.65 V	284	39.29	18.59
6	11650.00	47.76 AV	54.00	-6.24	1.65 V	284	29.17	18.59

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 (40MHz)	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	63.96 PK	74.00	-10.04	1.78 H	261	53.95	10.01
2	5150.00	52.86 AV	54.00	-1.14	1.78 H	261	42.85	10.01
3	*5190.00	111.19 PK			1.78 H	261	101.10	10.09
4	*5190.00	104.76 AV			1.78 H	261	94.67	10.09
5	#10380.00	57.31 PK	68.20	-10.89	1.98 H	327	41.12	16.19
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.48 PK	74.00	-11.52	1.93 V	351	52.47	10.01
2	5150.00	51.94 AV	54.00	-2.06	1.93 V	351	41.93	10.01
3	*5190.00	110.85 PK			1.93 V	351	100.76	10.09
4	*5190.00	104.51 AV			1.93 V	351	94.42	10.09
5	#10380.00	57.25 PK	68.20	-10.95	1.55 V	284	41.06	16.19

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 (40MHz)	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	5150.00	65.17 PK	74.00	-8.83	2.09 H	273	55.16	10.01
2	5150.00	52.88 AV	54.00	-1.12	2.09 H	273	42.87	10.01
3	*5230.00	116.02 PK			2.09 H	273	105.79	10.23
4	*5230.00	108.99 AV			2.09 H	273	98.76	10.23
5	#10460.00	57.45 PK	68.20	-10.75	1.89 H	331	41.29	16.16
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	63.21 PK	74.00	-10.79	1.43 V	131	53.20	10.01
2	5150.00	51.88 AV	54.00	-2.12	1.43 V	131	41.87	10.01
3	*5230.00	113.27 PK			1.43 V	131	103.04	10.23
4	*5230.00	106.91 AV			1.43 V	131	96.68	10.23
5	#10460.00	57.31 PK	68.20	-10.89	1.57 V	290	41.15	16.16

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 (40MHz)	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	64.26 PK	74.00	-9.74	1.50 H	267	54.25	10.01
2	5150.00	51.38 AV	54.00	-2.62	1.50 H	267	41.37	10.01
3	*5270.00	117.26 PK			1.50 H	267	106.81	10.45
4	*5270.00	108.83 AV			1.50 H	267	98.38	10.45
5	#10540.00	57.37 PK	68.20	-10.83	1.96 H	321	41.32	16.05
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	63.81 PK	74.00	-10.19	2.58 V	122	53.80	10.01
2	5150.00	50.82 AV	54.00	-3.18	2.58 V	122	40.81	10.01
3	*5270.00	113.49 PK			2.58 V	122	103.04	10.45
4	*5270.00	105.51 AV			2.58 V	122	95.06	10.45
5	#10540.00	57.29 PK	68.20	-10.91	1.62 V	280	41.24	16.05

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 (40MHz)	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	110.78 PK			1.49 H	265	100.04	10.74
2	*5310.00	104.57 AV			1.49 H	265	93.83	10.74
3	5350.00	62.91 PK	74.00	-11.09	1.49 H	265	51.92	10.99
4	5350.00	52.83 AV	54.00	-1.17	1.49 H	265	41.84	10.99
5	10620.00	57.42 PK	74.00	-16.58	1.94 H	327	41.38	16.04
6	10620.00	46.67 AV	54.00	-7.33	1.94 H	327	30.63	16.04
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	109.31 PK			3.08 V	273	98.57	10.74
2	*5310.00	102.64 AV			3.08 V	273	91.90	10.74
3	5350.00	62.45 PK	74.00	-11.55	3.08 V	273	51.46	10.99
4	5350.00	51.59 AV	54.00	-2.41	3.08 V	273	40.60	10.99
5	10620.00	57.24 PK	74.00	-16.76	1.60 V	279	41.20	16.04
6	10620.00	46.45 AV	54.00	-7.55	1.60 V	279	30.41	16.04

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 (40MHz)	Channel	CH 102：5510 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.24 PK	74.00	-12.76	1.12 H	265	49.64	11.60
2	5460.00	50.59 AV	54.00	-3.41	1.12 H	265	38.99	11.60
3	#5470.00	67.03 PK	68.20	-1.17	1.12 H	265	55.36	11.67
4	*5510.00	113.81 PK			1.12 H	265	102.06	11.75
5	*5510.00	106.13 AV			1.12 H	265	94.38	11.75
6	11020.00	57.65 PK	74.00	-16.35	1.89 H	331	40.57	17.08
7	11020.00	46.78 AV	54.00	-7.22	1.89 H	331	29.70	17.08
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.09 PK	74.00	-12.91	2.38 V	348	49.49	11.60
2	5460.00	50.44 AV	54.00	-3.56	2.38 V	348	38.84	11.60
3	#5470.00	64.23 PK	68.20	-3.97	2.38 V	348	52.56	11.67
4	*5510.00	111.96 PK			2.38 V	348	100.21	11.75
5	*5510.00	104.27 AV			2.38 V	348	92.52	11.75
6	11020.00	57.53 PK	74.00	-16.47	1.55 V	268	40.45	17.08
7	11020.00	46.69 AV	54.00	-7.31	1.55 V	268	29.61	17.08

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 (40MHz)	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	115.34 PK			1.48 H	261	103.93	11.41
2	*5550.00	107.95 AV			1.48 H	261	96.54	11.41
3	11100.00	57.84 PK	74.00	-16.16	1.93 H	327	40.34	17.50
4	11100.00	46.93 AV	54.00	-7.07	1.93 H	327	29.43	17.50
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	*5550.00	113.81 PK			2.41 V	279	102.40	11.41
2	*5550.00	106.05 AV			2.41 V	279	94.64	11.41
3	11100.00	57.73 PK	74.00	-16.27	1.59 V	264	40.23	17.50
4	11100.00	46.81 AV	54.00	-7.19	1.59 V	264	29.31	17.50

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.

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

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	118.87 PK			1.65 H	268	108.08	10.79
2	*5670.00	110.16 AV			1.65 H	268	99.37	10.79
3	#5725.00	66.15 PK	68.20	-2.05	1.65 H	268	55.44	10.71
4	11340.00	57.96 PK	74.00	-16.04	1.97 H	322	40.47	17.49
5	11340.00	47.03 AV	54.00	-6.97	1.97 H	322	29.54	17.49
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	*5670.00	115.43 PK			2.39 V	265	104.64	10.79
2	*5670.00	106.39 AV			2.39 V	265	95.60	10.79
3	#5725.00	64.96 PK	68.20	-3.24	2.39 V	265	54.25	10.71
4	11340.00	57.81 PK	74.00	-16.19	1.62 V	270	40.32	17.49
5	11340.00	46.85 AV	54.00	-7.15	1.62 V	270	29.36	17.49

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 (40MHz)	Channel	CH 142：5710 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.97 PK	68.20	-6.23	1.48 H	256	50.30	11.67
2	*5710.00	119.13 PK			1.48 H	256	108.40	10.73
3	*5710.00	110.35 AV			1.48 H	256	99.62	10.73
4	11420.00	57.98 PK	74.00	-16.02	1.93 H	327	39.90	18.08
5	11420.00	47.11 AV	54.00	-6.89	1.93 H	327	29.03	18.08
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.68 PK	68.20	-6.52	2.45 V	261	50.01	11.67
2	*5710.00	115.70 PK			2.45 V	261	104.97	10.73
3	*5710.00	106.58 AV			2.45 V	261	95.85	10.73
4	11420.00	57.84 PK	74.00	-16.16	1.66 V	274	39.76	18.08
5	11420.00	46.91 AV	54.00	-7.09	1.66 V	274	28.83	18.08

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 (40MHz)	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	#5645.00	64.68 PK	68.20	-3.52	1.50 H	264	53.84	10.84
2	*5755.00	123.55 PK			1.50 H	264	112.89	10.66
3	*5755.00	115.73 AV			1.50 H	264	105.07	10.66
4	#5926.68	63.65 PK	68.20	-4.55	1.50 H	264	53.01	10.64
5	11510.00	58.02 PK	74.00	-15.98	1.88 H	320	39.41	18.61
6	11510.00	47.90 AV	54.00	-6.10	1.88 H	320	29.29	18.61
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	#5643.57	63.67 PK	68.20	-4.53	1.49 V	263	52.83	10.84
2	*5755.00	120.77 PK			1.49 V	263	110.11	10.66
3	*5755.00	112.52 AV			1.49 V	263	101.86	10.66
4	#5974.18	63.67 PK	68.20	-4.53	1.49 V	263	52.79	10.88
5	11510.00	57.88 PK	74.00	-16.12	1.63 V	279	39.27	18.61
6	11510.00	47.79 AV	54.00	-6.21	1.63 V	279	29.18	18.61

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 (40MHz)	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	#5631.23	64.46 PK	68.20	-3.74	1.31 H	279	53.59	10.87
2	*5795.00	123.93 PK			1.31 H	279	113.32	10.61
3	*5795.00	116.38 AV			1.31 H	279	105.77	10.61
4	#5927.15	66.48 PK	68.20	-1.72	1.31 H	279	55.83	10.65
5	11590.00	58.13 PK	74.00	-15.87	1.89 H	327	39.27	18.86
6	11590.00	48.02 AV	54.00	-5.98	1.89 H	327	29.16	18.86
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	#5608.43	64.10 PK	68.20	-4.10	1.51 V	257	53.17	10.93
2	*5795.00	120.21 PK			1.51 V	257	109.60	10.61
3	*5795.00	112.19 AV			1.51 V	257	101.58	10.61
4	#5949.95	65.30 PK	68.20	-2.90	1.51 V	257	54.52	10.78
5	11590.00	57.81 PK	74.00	-16.19	1.67 V	283	38.95	18.86
6	11590.00	47.72 AV	54.00	-6.28	1.67 V	283	28.86	18.86

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 (80MHz)	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	64.54 PK	74.00	-9.46	1.93 H	274	54.53	10.01
2	5150.00	52.77 AV	54.00	-1.23	1.93 H	274	42.76	10.01
3	*5210.00	111.17 PK			1.93 H	274	101.03	10.14
4	*5210.00	102.41 AV			1.93 H	274	92.27	10.14
5	#10420.00	57.33 PK	68.20	-10.87	1.93 H	325	41.15	16.18
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.97 PK	74.00	-11.03	1.30 V	128	52.96	10.01
2	5150.00	52.13 AV	54.00	-1.87	1.30 V	128	42.12	10.01
3	*5210.00	108.69 PK			1.30 V	128	98.55	10.14
4	*5210.00	100.56 AV			1.30 V	128	90.42	10.14
5	#10420.00	57.24 PK	68.20	-10.96	1.58 V	281	41.06	16.18

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 (80MHz)	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	107.64 PK			1.70 H	257	97.04	10.60
2	*5290.00	100.42 AV			1.70 H	257	89.82	10.60
3	5350.00	62.35 PK	74.00	-11.65	1.70 H	257	51.36	10.99
4	5350.00	52.71 AV	54.00	-1.29	1.70 H	257	41.72	10.99
5	#10580.00	57.32 PK	68.20	-10.88	1.91 H	329	41.34	15.98
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	106.14 PK			1.61 V	349	95.54	10.60
2	*5290.00	99.66 AV			1.61 V	349	89.06	10.60
3	5350.00	62.04 PK	74.00	-11.96	1.61 V	349	51.05	10.99
4	5350.00	51.66 AV	54.00	-2.34	1.61 V	349	40.67	10.99
5	#10580.00	57.23 PK	68.20	-10.97	1.54 V	271	41.25	15.98

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 (80MHz)	Channel	CH 106：5530 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.04 PK	74.00	-11.96	1.97 H	275	50.44	11.60
2	5460.00	52.94 AV	54.00	-1.06	1.97 H	275	41.34	11.60
3	#5470.00	66.05 PK	68.20	-2.15	1.97 H	275	54.38	11.67
4	*5530.00	111.04 PK			1.97 H	275	99.46	11.58
5	*5530.00	104.16 AV			1.97 H	275	92.58	11.58
6	11060.00	57.61 PK	74.00	-16.39	1.84 H	326	40.32	17.29
7	11060.00	46.75 AV	54.00	-7.25	1.84 H	326	29.46	17.29
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	58.78 PK	74.00	-15.22	2.22 V	277	47.18	11.60
2	5460.00	48.24 AV	54.00	-5.76	2.22 V	277	36.64	11.60
3	#5470.00	61.86 PK	68.20	-6.34	2.22 V	277	50.19	11.67
4	*5530.00	109.01 PK			2.22 V	277	97.43	11.58
5	*5530.00	100.48 AV			2.22 V	277	88.90	11.58
6	11060.00	57.52 PK	74.00	-16.48	1.53 V	264	40.23	17.29
7	11060.00	46.66 AV	54.00	-7.34	1.53 V	264	29.37	17.29

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 (80MHz)	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	115.31 PK			1.53 H	277	104.38	10.93
2	*5610.00	107.84 AV			1.53 H	277	96.91	10.93
3	#5725.00	64.66 PK	68.20	-3.54	1.53 H	277	53.95	10.71
4	11220.00	57.93 PK	74.00	-16.07	1.88 H	331	40.06	17.87
5	11220.00	46.89 AV	54.00	-7.11	1.88 H	331	29.02	17.87
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	*5610.00	113.03 PK			2.41 V	269	102.10	10.93
2	*5610.00	105.67 AV			2.41 V	269	94.74	10.93
3	#5725.00	62.61 PK	68.20	-5.59	2.41 V	269	51.90	10.71
4	11220.00	57.80 PK	74.00	-16.20	1.58 V	254	39.93	17.87
5	11220.00	46.77 AV	54.00	-7.23	1.58 V	254	28.90	17.87

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 (80MHz)	Channel	CH 138：5690 MHz
Frequency Range	1GHz ~ 40GHz	Detector Function	Peak (PK) Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.81 PK	68.20	-6.39	1.47 H	269	50.14	11.67
2	*5690.00	115.75 PK			1.47 H	269	104.99	10.76
3	*5690.00	107.78 AV			1.47 H	269	97.02	10.76
4	11380.00	57.97 PK	74.00	-16.03	1.83 H	327	40.18	17.79
5	11380.00	46.92 AV	54.00	-7.08	1.83 H	327	29.13	17.79
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5470.00	61.62 PK	68.20	-6.58	2.37 V	258	49.95	11.67
2	*5690.00	113.38 PK			2.37 V	258	102.62	10.76
3	*5690.00	105.95 AV			2.37 V	258	95.19	10.76
4	11380.00	57.84 PK	74.00	-16.16	1.61 V	265	40.05	17.79
5	11380.00	46.80 AV	54.00	-7.20	1.61 V	265	29.01	17.79

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 (80MHz)	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	#5648.80	67.00 PK	68.20	-1.20	1.30 H	279	56.17	10.83
2	*5775.00	116.38 PK			1.30 H	279	105.74	10.64
3	*5775.00	109.22 AV			1.30 H	279	98.58	10.64
4	#5926.68	64.99 PK	68.20	-3.21	1.30 H	279	54.35	10.64
5	11550.00	57.80 PK	74.00	-16.20	1.81 H	322	39.07	18.73
6	11550.00	47.69 AV	54.00	-6.31	1.81 H	322	28.96	18.73
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	#5615.07	64.16 PK	68.20	-4.04	1.37 V	262	53.25	10.91
2	*5775.00	113.79 PK			1.37 V	262	103.15	10.64
3	*5775.00	106.68 AV			1.37 V	262	96.04	10.64
4	#5930.48	64.81 PK	68.20	-3.39	1.37 V	262	54.14	10.67
5	11550.00	57.72 PK	74.00	-16.28	1.64 V	288	38.99	18.73
6	11550.00	47.60 AV	54.00	-6.40	1.64 V	288	28.87	18.73

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 (160MHz)	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	61.83 PK	74.00	-12.17	2.07 H	277	51.82	10.01
2	5150.00	52.57 AV	54.00	-1.43	2.07 H	277	42.56	10.01
3	*5250.00	103.92 PK			2.07 H	277	93.62	10.30
4	*5250.00	97.33 AV			2.07 H	277	87.03	10.30
5	5350.00	63.97 PK	74.00	-10.03	2.07 H	277	52.98	10.99
6	5350.00	52.82 AV	54.00	-1.18	2.07 H	277	41.83	10.99
7	#10500.00	57.53 PK	68.20	-10.67	1.82 H	321	41.41	16.12
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	58.96 PK	74.00	-15.04	2.98 V	280	48.95	10.01
2	5150.00	49.69 AV	54.00	-4.31	2.98 V	280	39.68	10.01
3	*5250.00	103.08 PK			2.98 V	280	92.78	10.30
4	*5250.00	95.28 AV			2.98 V	280	84.98	10.30
5	5350.00	63.58 PK	74.00	-10.42	2.98 V	280	52.59	10.99
6	5350.00	52.71 AV	54.00	-1.29	2.98 V	280	41.72	10.99
7	#10500.00	57.44 PK	68.20	-10.76	1.59 V	262	41.32	16.12

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 (160MHz)	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	61.67 PK	74.00	-12.33	1.88 H	281	50.07	11.60
2	5460.00	52.94 AV	54.00	-1.06	1.88 H	281	41.34	11.60
3	#5470.00	64.78 PK	68.20	-3.42	1.88 H	281	53.11	11.67
4	*5570.00	105.35 PK			1.88 H	281	94.13	11.22
5	*5570.00	97.14 AV			1.88 H	281	85.92	11.22
6	#5725.00	64.57 PK	68.20	-3.63	1.88 H	281	53.86	10.71
7	11140.00	57.65 PK	74.00	-16.35	1.73 H	334	39.94	17.71
8	11140.00	46.78 AV	54.00	-7.22	1.73 H	334	29.07	17.71
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	60.03 PK	74.00	-13.97	1.59 V	345	48.43	11.60
2	5460.00	50.52 AV	54.00	-3.48	1.59 V	345	38.92	11.60
3	#5470.00	57.42 PK	68.20	-10.78	1.59 V	345	45.75	11.67
4	*5570.00	102.54 PK			1.59 V	345	91.32	11.22
5	*5570.00	94.96 AV			1.59 V	345	83.74	11.22
6	#5725.00	61.59 PK	68.20	-6.61	1.59 V	345	50.88	10.71
7	11140.00	57.58 PK	74.00	-16.42	1.66 V	259	39.87	17.71
8	11140.00	46.71 AV	54.00	-7.29	1.66 V	259	29.00	17.71

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.

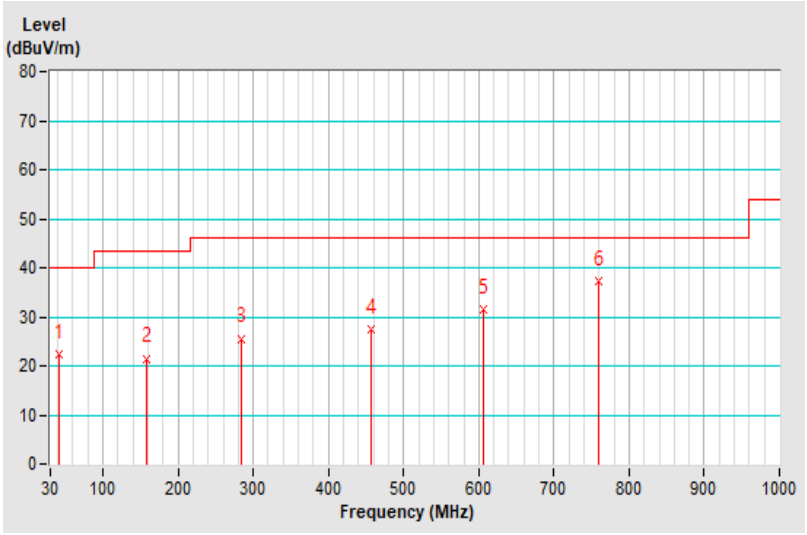
Below 1GHz Worst-Case Data:

RF Mode	TX 802.11ax (20MHz)	Channel	CH 149：5745 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.91	22.25 QP	40.00	-17.75	1.61 H	139	29.96	-7.71
2	157.31	21.43 QP	43.50	-22.07	1.25 H	72	27.90	-6.47
3	284.33	25.55 QP	46.00	-20.45	1.78 H	289	30.46	-4.91
4	456.17	27.33 QP	46.00	-18.67	1.64 H	222	27.99	-0.66
5	606.71	31.38 QP	46.00	-14.62	1.22 H	144	28.99	2.39
6	759.37	37.14 QP	46.00	-8.86	1.94 H	142	31.94	5.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

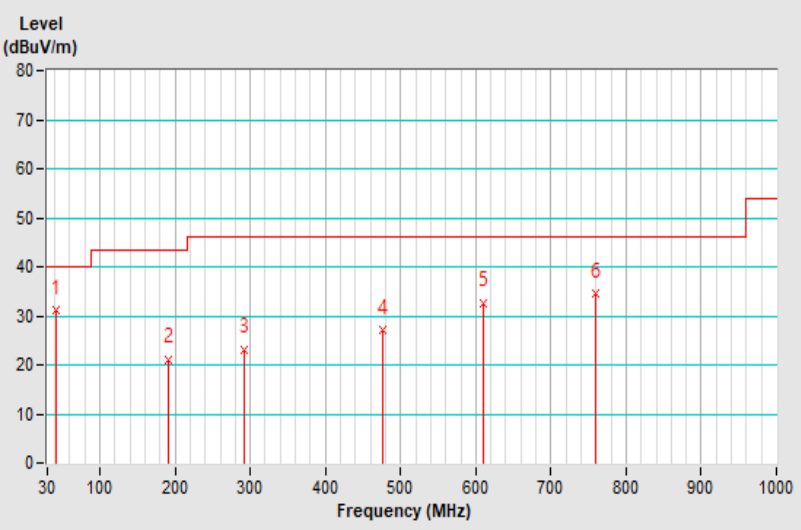


RF Mode	TX 802.11ax (20MHz)	Channel	CH 149 : 5745 MHz
Frequency Range	9kHz ~ 1GHz	Detector Function	Quasi-Peak (QP)

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.96	31.04 QP	40.00	-8.96	1.88 V	158	38.74	-7.70
2	191.70	21.07 QP	43.50	-22.43	1.51 V	268	30.06	-8.99
3	292.05	23.11 QP	46.00	-22.89	1.69 V	240	27.86	-4.75
4	475.28	26.95 QP	46.00	-19.05	2.15 V	90	27.30	-0.35
5	609.24	32.56 QP	46.00	-13.44	1.79 V	348	30.12	2.44
6	759.39	34.47 QP	46.00	-11.53	1.56 V	181	29.27	5.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
ROHDE & SCHWARZ TEST RECEIVER	ESCS30	100276	Apr. 16, 2020	Apr. 15, 2021
SCHWARZBECK Artificial Mains Network (for EUT)	NSLK 8128	8128-244	Nov. 19, 2020	Nov. 18, 2021
LISN With Adapter (for EUT)	AD10	C05Ada-001	Nov. 19, 2020	Nov. 18, 2021
R&S Artificial Mains Network (for peripheral)	ESH3-Z5	100220	Dec. 1, 2020	Nov. 30, 2021
Software	Cond_V7.3.7.4	NA	NA	NA
RF cable (JYEBAO) With 10dB PAD	5D-FB	Cable-C05.01	Jan. 30, 2020	Jan. 29, 2021
LYNICS Terminator (For R&S LISN)	0900510	E1-01-305	Feb. 17, 2020	Feb. 16, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 5. (Conduction 5)
3. The VCCI Site Registration No. C-11093.
4. Test date: Jan. 8, 2021

4.2.3 Test Procedures

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

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

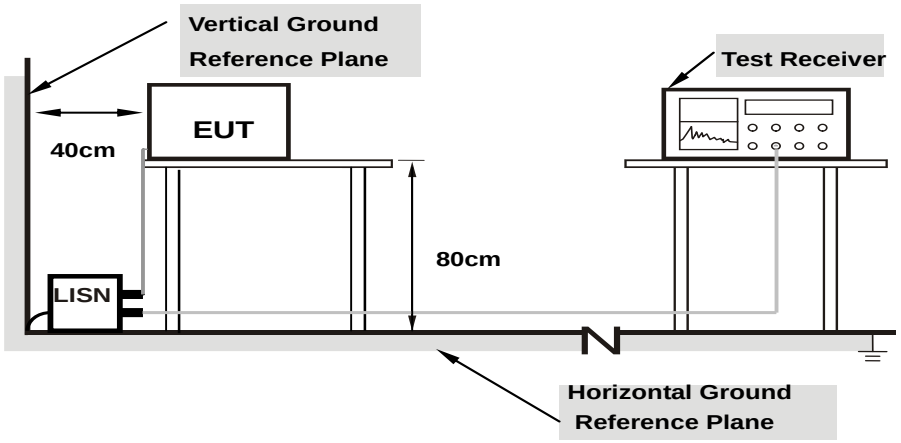
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

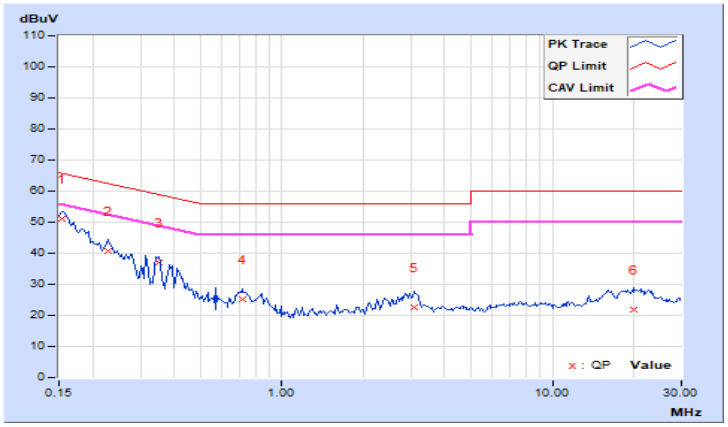
Worst-case data:
802.11ax (20MHz)

Channel	TX Channel 149	Detector Function	Quasi-Peak (QP) / Average (AV)
Phase	Line (L)		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	**0.15391**	**9.93**	**41.19**	**24.53**	**51.12**	**34.46**	**65.79**	**55.79**	**-14.67**	**-21.33**
2	0.22812	9.93	30.99	17.01	40.92	26.94	62.52	52.52	-21.60	-25.58
3	0.35058	9.95	27.10	21.38	37.05	31.33	58.95	48.95	-21.90	-17.62
4	0.71250	9.98	15.35	8.75	25.33	18.73	56.00	46.00	-30.67	-27.27
5	3.10547	10.18	12.43	7.06	22.61	17.24	56.00	46.00	-33.39	-28.76
6	19.87891	11.32	10.58	9.55	21.90	20.87	60.00	50.00	-38.10	-29.13

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.

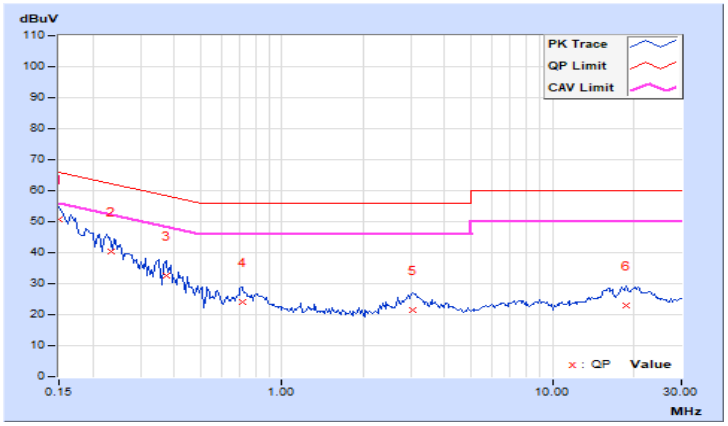


Channel	TX Channel 149	Detector Function	Quasi-Peak (QP) / Average (AV)
Phase	Neutral (N)		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.96	40.95	25.45	50.91	35.41	66.00	56.00	-15.09	-20.59
2	0.23309	9.97	30.43	21.74	40.40	31.71	62.34	52.34	-21.94	-20.63
3	0.37266	10.00	22.65	13.16	32.65	23.16	58.44	48.44	-25.79	-25.28
4	0.71250	10.02	14.08	8.18	24.10	18.20	56.00	46.00	-31.90	-27.80
5	3.06250	10.20	11.22	6.61	21.42	16.81	56.00	46.00	-34.58	-29.19
6	18.84766	11.27	11.81	5.72	23.08	16.99	60.00	50.00	-36.92	-33.01

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

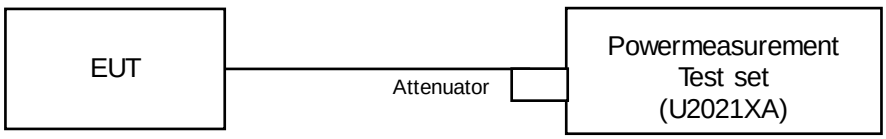
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

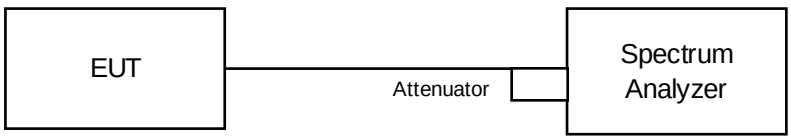
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

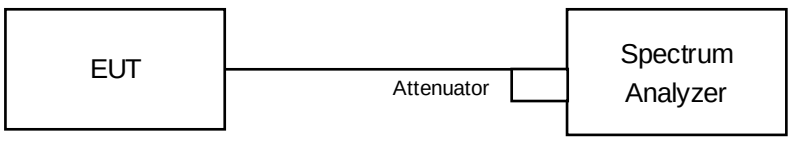
For Power Output Measurement



For Straddle Chanel:



For 26dB Bandwidth Measurement



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

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

For Straddle Chanel:

a) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
b) Set sweep trigger to “free run”.
c) Set RBW = 1 MHz.
d) Set VBW ≥ 3 MHz
e) Number of points in sweep ≥ 2 Span / RBW.
f) Sweep time ≤ (number of points in sweep) * T
g) Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
h) Detector = RMS.
i) Trace mode = max hold.
j) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
k) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

For 26dB Bandwidth Measurement

1. Set RBW = approximately 1% to 5% of the emission bandwidth.
2. Set the VBW ≧ 3 x RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	18.14	17.92	17.75	17.93	248.76	23.96	30	Pass
40	5200	21.10	20.96	21.29	21.00	514.042	27.11	30	Pass
48	5240	21.73	21.55	21.76	21.88	**595.964**	27.75	30	Pass
52	5260	16.93	16.87	16.66	16.72	191.292	22.82	24	Pass
60	5300	16.96	17.14	16.60	16.69	193.795	22.87	24	Pass
64	5320	16.68	17.04	16.53	16.48	186.582	22.71	24	Pass
100	5500	16.59	16.38	16.94	16.93	187.803	22.74	24	Pass
116	5580	16.69	16.34	16.89	16.80	186.447	22.71	24	Pass
140	5700	16.43	16.21	16.74	16.71	179.825	22.55	24	Pass
144	5720 For U-NII-2C	13.61	13.63	13.67	13.63	92.377	19.66	23.21	Pass
144	5720 For U-NII-3	7.74	7.77	7.82	7.76	23.951	13.79	30	Pass
149	5745	23.02	22.67	23.15	22.51	770.15	28.87	30	Pass
157	5785	22.65	21.93	23.16	21.87	700.862	28.46	30	Pass
165	5825	22.06	21.18	21.61	21.09	565.32	27.52	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(24.69) = 24.93 dBm > 24dBm.
2. 11dBm + 10log(24.61) = 24.91 dBm > 24dBm.
3. 11dBm + 10log(23.21) = 24.66 dBm > 24dBm.
4. 11dBm + 10log(23.12) = 24.64 dBm > 24dBm.
5. 11dBm + 10log(24.64) = 24.92 dBm > 24dBm.
6. 11dBm + 10log(23.19) = 24.65 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5708.33) =23.21 dBm<24dBm.

Chain 1

1. 11dBm + 10log(24.56) = 24.90 dBm > 24dBm.
2. 11dBm + 10log(24.56) = 24.90 dBm > 24dBm.
3. 11dBm + 10log(23.2) = 24.65 dBm > 24dBm.
4. 11dBm + 10log(23.22) = 24.66 dBm > 24dBm.
5. 11dBm + 10log(24.55) = 24.90 dBm > 24dBm.
6. 11dBm + 10log(23.05) = 24.63 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5708.36) =23.21 dBm<24dBm.

Chain 2

1. 11dBm + 10log(24.61) = 24.91 dBm > 24dBm.
2. 11dBm + 10log(24.55) = 24.90 dBm > 24dBm.
3. 11dBm + 10log(23.14) = 24.64 dBm > 24dBm.
4. 11dBm + 10log(23.11) = 24.64 dBm > 24dBm.
5. 11dBm + 10log(24.6) = 24.91 dBm > 24dBm.
6. 11dBm + 10log(23.21) = 24.66 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5708.36) =23.21 dBm<24dBm.

Chain 3

1. 11dBm + 10log(24.62) = 24.91 dBm > 24dBm.
2. 11dBm + 10log(24.65) = 24.92 dBm > 24dBm.
3. 11dBm + 10log(23.17) = 24.65 dBm > 24dBm.
4. 11dBm + 10log(23.19) = 24.65 dBm > 24dBm.
5. 11dBm + 10log(24.57) = 24.90 dBm > 24dBm.
6. 11dBm + 10log(23.15) = 24.65 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5708.34) =23.21 dBm<24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
144	5720	116.328	20.66

802.11n (20MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	16.41	16.14	16.31	16.50	172.292	22.36	30	Pass
40	5200	20.87	20.37	20.96	20.59	470.363	26.72	30	Pass
48	5240	21.73	19.04	21.89	20.96	508.368	27.06	30	Pass
52	5260	16.66	16.31	16.58	16.30	177.258	22.49	24	Pass
60	5300	16.55	16.89	15.89	16.29	175.426	22.44	24	Pass
64	5320	16.45	16.36	15.97	15.92	166.029	22.20	24	Pass
100	5500	16.19	15.82	16.57	16.65	171.418	22.34	24	Pass
116	5580	16.10	15.68	16.06	16.41	161.838	22.09	24	Pass
140	5700	15.24	15.26	15.41	15.51	137.31	21.38	24	Pass
144	5720 For U-NII-2C	12.98	12.95	12.90	12.92	78.672	18.96	22.91	Pass
144	5720 For U-NII-3	7.55	7.53	7.52	7.55	22.689	13.56	30	Pass
149	5745	21.99	22.09	21.98	21.70	625.605	27.96	30	Pass
157	5785	21.67	20.75	21.79	21.00	542.643	27.35	30	Pass
165	5825	21.33	20.47	20.66	20.38	472.817	26.75	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(23.16) = 24.65 dBm > 24dBm.
2. 11dBm + 10log(24.91) = 24.96 dBm > 24dBm.
3. 11dBm + 10log(22.26) = 24.48 dBm > 24dBm.
4. 11dBm + 10log(24.14) = 24.83 dBm > 24dBm.
5. 11dBm + 10log(23.9) = 24.78 dBm > 24dBm.
6. 11dBm + 10log(23.2) = 24.65 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5707.18) =23.50 dBm<24dBm.

Chain 1

1. 11dBm + 10log(23.15) = 24.65 dBm > 24dBm.
2. 11dBm + 10log(24.91) = 24.96 dBm > 24dBm.
3. 11dBm + 10log(22.19) = 24.46 dBm > 24dBm.
4. 11dBm + 10log(21.66) = 24.36 dBm > 24dBm.
5. 11dBm + 10log(23.93) = 24.79 dBm > 24dBm.
6. 11dBm + 10log(23.23) = 24.66 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5707.16) =23.51 dBm<24dBm.

Chain 2

1. 11dBm + 10log(22.87) = 24.59 dBm > 24dBm.
2. 11dBm + 10log(25.46) = 25.06 dBm > 24dBm.
3. 11dBm + 10log(23.84) = 24.77 dBm > 24dBm.
4. 11dBm + 10log(21.82) = 24.39 dBm > 24dBm.
5. 11dBm + 10log(23.25) = 24.66 dBm > 24dBm.
6. 11dBm + 10log(22.12) = 24.45 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5709.43) =22.92dBm<24dBm.

Chain 3

1. 11dBm + 10log(22.89) = 24.60 dBm > 24dBm.
2. 11dBm + 10log(25.45) = 25.06 dBm > 24dBm.
3. 11dBm + 10log(23.89) = 24.78 dBm > 24dBm.
4. 11dBm + 10log(25.02) = 24.98 dBm > 24dBm.
5. 11dBm + 10log(23.23) = 24.66 dBm > 24dBm.
6. 11dBm + 10log(22.21) = 24.47 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5709.45) =22.91 dBm<24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
144	5720	101.361	20.06

802.11n (40MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.42	14.96	15.50	15.05	133.637	21.26	30	Pass
46	5230	18.93	18.54	18.96	18.87	305.407	24.85	30	Pass
54	5270	17.66	16.67	15.89	16.11	184.443	22.66	24	Pass
62	5310	12.58	11.40	12.10	11.12	61.077	17.86	24	Pass
102	5510	12.59	11.66	12.06	11.31	62.401	17.95	24	Pass
110	5550	17.10	16.49	16.51	17.14	192.384	22.84	24	Pass
134	5670	17.17	16.23	16.47	17.14	190.217	22.79	24	Pass
142	5710 For U-NII-2C	15.40	15.37	15.36	15.34	137.662	21.39	24	Pass
142	5710 For U-NII-3	5.67	5.60	5.60	5.67	14.641	11.66	30	Pass
151	5755	22.21	21.20	21.39	21.34	572.032	27.57	30	Pass
159	5795	22.24	20.87	20.88	21.03	538.901	27.32	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(43.73) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(42.94) = 27.33 dBm > 24dBm.
3. 11dBm + 10log(42.37) = 27.27 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.08) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.54) =26.73 dBm>24dBm.

Chain 1

1. 11dBm + 10log(43.74) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(44.57) = 27.49 dBm > 24dBm.
3. 11dBm + 10log(42.38) = 27.27 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.07) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.58) =26.73 dBm>24dBm.

Chain 2

1. 11dBm + 10log(43.77) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(42.36) = 27.27 dBm > 24dBm.
3. 11dBm + 10log(41.76) = 27.21 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.11) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.48) =26.74 dBm>24dBm.

Chain 3

1. 11dBm + 10log(43.83) = 27.42 dBm > 24dBm.
2. 11dBm + 10log(42.33) = 27.27 dBm > 24dBm.
3. 11dBm + 10log(41.89) = 27.22 dBm > 24dBm.
4. 11dBm + 10log(44.83) = 27.52 dBm > 24dBm.
5. 11dBm + 10log(42.07) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.45) =26.74 dBm>24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
142	5710	125.405	20.98

802.11ac (20MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	16.66	16.43	16.70	16.83	185.267	22.68	30	Pass
40	5200	21.17	20.72	21.18	21.08	508.403	27.06	30	Pass
48	5240	22.03	19.41	22.36	21.35	555.53	27.45	30	Pass
52	5260	17.10	16.72	16.80	16.66	192.483	22.84	24	Pass
60	5300	16.82	17.17	16.14	16.64	187.45	22.73	24	Pass
64	5320	16.75	16.68	16.45	16.23	180.007	22.55	24	Pass
100	5500	16.53	16.32	17.04	16.88	187.168	22.72	24	Pass
116	5580	16.49	15.93	16.53	16.66	175.062	22.43	24	Pass
140	5700	15.58	15.54	15.87	15.99	150.306	21.77	24	Pass
144	5720 For U-NII-2C	13.06	13.02	13.24	13.27	82.594	19.17	22.91	Pass
144	5720 For U-NII-3	7.90	7.85	8.07	8.07	25.086	13.99	30	Pass
149	5745	22.45	22.32	22.45	22.16	686.63	28.37	30	Pass
157	5785	22.10	20.98	22.00	21.44	585.3	27.67	30	Pass
165	5825	21.62	20.68	21.13	20.79	511.829	27.09	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(23.16) = 24.65 dBm > 24dBm.
2. 11dBm + 10log(24.91) = 24.96 dBm > 24dBm.
3. 11dBm + 10log(22.26) = 24.48 dBm > 24dBm.
4. 11dBm + 10log(24.14) = 24.83 dBm > 24dBm.
5. 11dBm + 10log(23.9) = 24.78 dBm > 24dBm.
6. 11dBm + 10log(23.2) = 24.65 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5707.18) =23.50 dBm<24dBm.

Chain 1

1. 11dBm + 10log(23.15) = 24.65 dBm > 24dBm.
2. 11dBm + 10log(24.91) = 24.96 dBm > 24dBm.
3. 11dBm + 10log(22.19) = 24.46 dBm > 24dBm.
4. 11dBm + 10log(21.66) = 24.36 dBm > 24dBm.
5. 11dBm + 10log(23.93) = 24.79 dBm > 24dBm.
6. 11dBm + 10log(23.23) = 24.66 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5707.16) =23.51 dBm<24dBm.

Chain 2

1. 11dBm + 10log(22.87) = 24.59 dBm > 24dBm.
2. 11dBm + 10log(25.46) = 25.06 dBm > 24dBm.
3. 11dBm + 10log(23.84) = 24.77 dBm > 24dBm.
4. 11dBm + 10log(21.82) = 24.39 dBm > 24dBm.
5. 11dBm + 10log(23.25) = 24.66 dBm > 24dBm.
6. 11dBm + 10log(22.12) = 24.45 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5709.43) =22.92dBm<24dBm.

Chain 3

1. 11dBm + 10log(22.89) = 24.60 dBm > 24dBm.
2. 11dBm + 10log(25.45) = 25.06 dBm > 24dBm.
3. 11dBm + 10log(23.89) = 24.78 dBm > 24dBm.
4. 11dBm + 10log(25.02) = 24.98 dBm > 24dBm.
5. 11dBm + 10log(23.23) = 24.66 dBm > 24dBm.
6. 11dBm + 10log(22.21) = 24.47 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5709.45) =22.91 dBm<24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
144	5720	107.68	20.32

802.11ac (40MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	15.90	15.27	15.84	15.54	146.736	21.67	30	Pass
46	5230	19.20	18.91	19.21	19.24	328.294	25.16	30	Pass
54	5270	17.98	17.08	16.34	16.37	200.26	23.02	24	Pass
62	5310	13.00	11.76	12.55	11.42	66.806	18.25	24	Pass
102	5510	12.94	12.10	12.43	11.62	67.917	18.32	24	Pass
110	5550	17.55	16.80	16.94	17.43	209.514	23.21	24	Pass
134	5670	17.45	16.48	16.87	17.44	204.157	23.10	24	Pass
142	5710 For U-NII-2C	15.78	15.76	16.06	15.99	155.598	21.92	24	Pass
142	5710 For U-NII-3	5.89	5.91	6.19	6.21	16.118	12.07	30	Pass
151	5755	22.60	21.49	21.72	21.82	623.547	27.95	30	Pass
159	5795	22.56	21.34	21.26	21.31	585.313	27.67	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(43.73) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(42.94) = 27.33 dBm > 24dBm.
3. 11dBm + 10log(42.37) = 27.27 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.08) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.54) =26.73 dBm>24dBm.

Chain 1

1. 11dBm + 10log(43.74) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(44.57) = 27.49 dBm > 24dBm.
3. 11dBm + 10log(42.38) = 27.27 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.07) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.58) =26.73 dBm>24dBm.

Chain 2

1. 11dBm + 10log(43.77) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(42.36) = 27.27 dBm > 24dBm.
3. 11dBm + 10log(41.76) = 27.21 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.11) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.48) =26.74 dBm>24dBm.

Chain 3

1. 11dBm + 10log(43.83) = 27.42 dBm > 24dBm.
2. 11dBm + 10log(42.33) = 27.27 dBm > 24dBm.
3. 11dBm + 10log(41.89) = 27.22 dBm > 24dBm.
4. 11dBm + 10log(44.83) = 27.52 dBm > 24dBm.
5. 11dBm + 10log(42.07) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.45) =26.74 dBm>24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
142	5710	171.716	22.35

802.11ac (80MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	12.65	11.57	10.67	10.91	56.762	17.54	30	Pass
58	5290	12.85	11.06	10.58	10.89	55.743	17.46	24	Pass
106	5530	12.95	15.03	14.66	14.72	110.456	20.43	24	Pass
122	5610	16.82	17.42	17.07	16.91	203.316	23.08	24	Pass
138	5690 For U-NII-2C	16.01	15.99	16.10	16.06	160.724	22.06	24	Pass
138	5690 For U-NII-3	2.55	2.64	2.90	2.72	7.456	8.73	30	Pass
155	5775	18.05	17.83	18.51	18.40	264.641	24.23	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(84.95) = 30.29 dBm > 24dBm.
2. 11dBm + 10log(85.32) = 30.31 dBm > 24dBm.
3. 11dBm + 10log(83.14) = 30.20 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5647.79) =29.87 dBm>24dBm.

Chain 1

1. 11dBm + 10log(85) = 30.29 dBm > 24dBm.
2. 11dBm + 10log(85.3) = 30.31 dBm > 24dBm.
3. 11dBm + 10log(83.12) = 30.20 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5647.74) =29.88 dBm>24dBm.

Chain 2

1. 11dBm + 10log(82.74) = 30.18 dBm > 24dBm.
2. 11dBm + 10log(83.01) = 30.19 dBm > 24dBm.
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5646.68) =29.93 dBm>24dBm.

Chain 3

1. 11dBm + 10log(82.76) = 30.18 dBm > 24dBm.
2. 11dBm + 10log(83.06) = 30.19 dBm > 24dBm.
3. 11dBm + 10log(83.91) = 30.24 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5646.61) =29.94 dBm>24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
138	5690	168.18	22.26

802.11ac (160MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 For U-NII-1	7.36	7.25	7.10	7.04	20.941	13.21	30	Pass
50	5250 For U-NII-2A	7.09	6.98	6.87	6.81	19.767	12.96	24	Pass
114	5570	10.00	9.95	10.08	10.30	40.787	16.11	24	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(82.84) = 30.18 dBm > 24dBm.
2. 11dBm + 10log(165.8) = 33.20 dBm > 24dBm.

Chain 1

1. 11dBm + 10log(82.47) = 30.16 dBm > 24dBm.
2. 11dBm + 10log(165.2) = 33.18 dBm > 24dBm.

Chain 2

1. 11dBm + 10log(83.06) = 30.19 dBm > 24dBm.
2. 11dBm + 10log(164.4) = 33.16 dBm > 24dBm.

Chain 3

1. 11dBm + 10log(83.77) = 30.23 dBm > 24dBm.
2. 11dBm + 10log(166.7) = 33.22 dBm > 24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
50	5250	40.708	16.10

802.11ax (20MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
36	5180	17.25	17.15	17.25	17.36	212.507	23.27	30	Pass
40	5200	21.68	21.40	21.71	21.84	586.278	27.68	30	Pass
48	5240	22.92	20.12	22.87	21.92	647.925	28.12	30	Pass
52	5260	17.66	17.46	17.31	17.18	220.13	23.43	24	Pass
60	5300	17.33	17.99	16.91	17.32	220.068	23.43	24	Pass
64	5320	17.64	17.58	17.24	16.80	216.185	23.35	24	Pass
100	5500	17.29	17.04	17.55	17.50	217.282	23.37	24	Pass
116	5580	17.06	16.80	17.31	17.29	206.086	23.14	24	Pass
140	5700	16.44	16.18	16.72	16.68	179.099	22.53	24	Pass
144	5720 For U-NII-2C	13.60	13.57	13.64	13.62	91.795	19.63	22.91	Pass
144	5720 For U-NII-3	8.59	8.55	8.68	8.70	29.181	14.65	30	Pass
149	5745	22.98	22.91	23.06	22.75	**784.71**	28.95	30	Pass
157	5785	22.71	21.69	22.53	22.17	678.085	28.31	30	Pass
165	5825	22.37	21.25	21.86	21.59	603.609	27.81	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(23.16) = 24.65 dBm > 24dBm.
2. 11dBm + 10log(24.91) = 24.96 dBm > 24dBm.
3. 11dBm + 10log(22.26) = 24.48 dBm > 24dBm.
4. 11dBm + 10log(24.14) = 24.83 dBm > 24dBm.
5. 11dBm + 10log(23.9) = 24.78 dBm > 24dBm.
6. 11dBm + 10log(23.2) = 24.65 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5707.18) =23.50 dBm<24dBm.

Chain 1

1. 11dBm + 10log(23.15) = 24.65 dBm > 24dBm.
2. 11dBm + 10log(24.91) = 24.96 dBm > 24dBm.
3. 11dBm + 10log(22.19) = 24.46 dBm > 24dBm.
4. 11dBm + 10log(21.66) = 24.36 dBm > 24dBm.
5. 11dBm + 10log(23.93) = 24.79 dBm > 24dBm.
6. 11dBm + 10log(23.23) = 24.66 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5707.16) =23.51 dBm<24dBm.

Chain 2

1. 11dBm + 10log(22.87) = 24.59 dBm > 24dBm.
2. 11dBm + 10log(25.46) = 25.06 dBm > 24dBm.
3. 11dBm + 10log(23.84) = 24.77 dBm > 24dBm.
4. 11dBm + 10log(21.82) = 24.39 dBm > 24dBm.
5. 11dBm + 10log(23.25) = 24.66 dBm > 24dBm.
6. 11dBm + 10log(22.12) = 24.45 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5709.43) =22.92dBm<24dBm.

Chain 3

1. 11dBm + 10log(22.89) = 24.60 dBm > 24dBm.
2. 11dBm + 10log(25.45) = 25.06 dBm > 24dBm.
3. 11dBm + 10log(23.89) = 24.78 dBm > 24dBm.
4. 11dBm + 10log(25.02) = 24.98 dBm > 24dBm.
5. 11dBm + 10log(23.23) = 24.66 dBm > 24dBm.
6. 11dBm + 10log(22.21) = 24.47 dBm > 24dBm.
7. 11dBm + 10log(5725.00 -5709.45) =22.91 dBm<24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
144	5720	120.976	20.83

802.11ax (40MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
38	5190	16.54	16.15	16.46	16.34	173.603	22.40	30	Pass
46	5230	20.04	19.67	19.86	19.98	389.977	25.91	30	Pass
54	5270	18.69	17.82	17.04	16.95	**234.622**	23.70	24	Pass
62	5310	13.82	12.65	13.09	12.13	79.208	18.99	24	Pass
102	5510	13.82	12.65	13.09	12.13	79.208	18.99	24	Pass
110	5550	18.11	17.32	17.52	18.17	240.774	23.82	24	Pass
134	5670	18.08	17.27	17.76	18.22	**243.68**	23.87	24	Pass
142	5710 For U-NII-2C	16.23	16.26	16.26	16.25	168.679	22.27	24	Pass
142	5710 For U-NII-3	7.08	7.07	7.02	7.16	20.433	13.10	30	Pass
151	5755	23.42	22.17	22.40	22.63	741.614	28.70	30	Pass
159	5795	23.29	21.95	21.88	22.11	686.705	28.37	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(43.73) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(42.94) = 27.33 dBm > 24dBm.
3. 11dBm + 10log(42.37) = 27.27 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.08) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.54) =26.73 dBm>24dBm.

Chain 1

1. 11dBm + 10log(43.74) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(44.57) = 27.49 dBm > 24dBm.
3. 11dBm + 10log(42.38) = 27.27 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.07) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.58) =26.73 dBm>24dBm.

Chain 2

1. 11dBm + 10log(43.77) = 27.41 dBm > 24dBm.
2. 11dBm + 10log(42.36) = 27.27 dBm > 24dBm.
3. 11dBm + 10log(41.76) = 27.21 dBm > 24dBm.
4. 11dBm + 10log(44.75) = 27.51 dBm > 24dBm.
5. 11dBm + 10log(42.11) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.48) =26.74 dBm>24dBm.

Chain 3

1. 11dBm + 10log(43.83) = 27.42 dBm > 24dBm.
2. 11dBm + 10log(42.33) = 27.27 dBm > 24dBm.
3. 11dBm + 10log(41.89) = 27.22 dBm > 24dBm.
4. 11dBm + 10log(44.83) = 27.52 dBm > 24dBm.
5. 11dBm + 10log(42.07) = 27.24 dBm > 24dBm.
6. 11dBm + 10log(5725.00 -5687.45) =26.74 dBm>24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
142	5710	189.112	22.77

802.11ax (80MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
42	5210	13.43	12.15	11.46	11.45	66.395	18.22	30	Pass
58	5290	13.37	11.92	11.47	11.48	65.375	18.15	24	Pass
106	5530	13.84	15.88	15.22	15.24	129.622	21.13	24	Pass
122	5610	17.38	17.96	17.74	17.42	231.856	23.65	24	Pass
138	5690 For U-NII-2C	16.30	16.29	16.28	16.26	169.947	22.30	24	Pass
138	5690 For U-NII-3	2.96	3.34	3.08	3.42	8.365	9.22	30	Pass
155	5775	18.77	18.44	19.11	18.92	304.612	24.84	30	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(84.95) = 30.29 dBm > 24dBm.
2. 11dBm + 10log(85.32) = 30.31 dBm > 24dBm.
3. 11dBm + 10log(83.14) = 30.20 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5647.79) =29.87 dBm>24dBm.

Chain 1

1. 11dBm + 10log(85) = 30.29 dBm > 24dBm.
2. 11dBm + 10log(85.3) = 30.31 dBm > 24dBm.
3. 11dBm + 10log(83.12) = 30.20 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5647.74) =29.88 dBm>24dBm.

Chain 2

1. 11dBm + 10log(82.74) = 30.18 dBm > 24dBm.
2. 11dBm + 10log(83.01) = 30.19 dBm > 24dBm.
3. 11dBm + 10log(83.94) = 30.24 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5646.68) =29.93 dBm>24dBm.

Chain 3

1. 11dBm + 10log(82.76) = 30.18 dBm > 24dBm.
2. 11dBm + 10log(83.06) = 30.19 dBm > 24dBm.
3. 11dBm + 10log(83.91) = 30.24 dBm > 24dBm.
4. 11dBm + 10log(5725.00 -5646.61) =29.94 dBm>24dBm.

For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
138	5690	178.312	22.51

802.11ax (160MHz)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)				Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3				
50	5250 For U-NII-1	7.72	7.60	7.58	7.57	23.113	13.64	30	Pass
50	5250 For U-NII-2A	8.12	7.96	7.92	7.90	25.098	14.00	24	Pass
114	5570	10.77	10.68	10.60	10.85	47.278	16.75	24	Pass

NOTE:

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

Chain 0

1. 11dBm + 10log(82.84) = 30.18 dBm > 24dBm.
2. 11dBm + 10log(165.8) = 33.20 dBm > 24dBm.

Chain 1

1. 11dBm + 10log(82.47) = 30.16 dBm > 24dBm.
2. 11dBm + 10log(165.2) = 33.18 dBm > 24dBm.

Chain 2

1. 11dBm + 10log(83.06) = 30.19 dBm > 24dBm.
2. 11dBm + 10log(164.4) = 33.16 dBm > 24dBm.

Chain 3

1. 11dBm + 10log(83.77) = 30.23 dBm > 24dBm.
2. 11dBm + 10log(166.7) = 33.22 dBm > 24dBm.

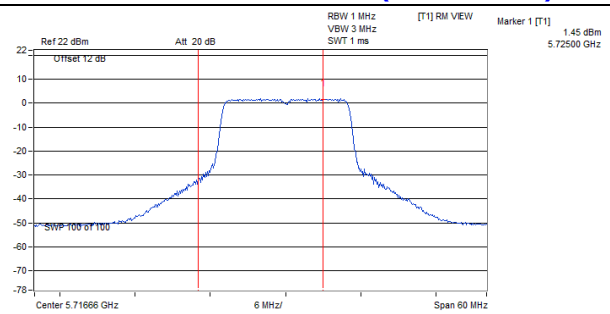
For Reference only-Power meter value

The power value was measured by power meter with average sensor

Chan.	Freq. (MHz)	Conducted Power (mW)	Conducted Power (dBm)
50	5250	48.211	16.83

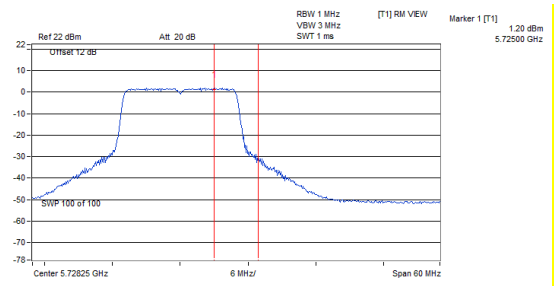
Spectrum Plot of Straddle channel

802.11a_Chain 0: CH 144 (For U-NII-2C)



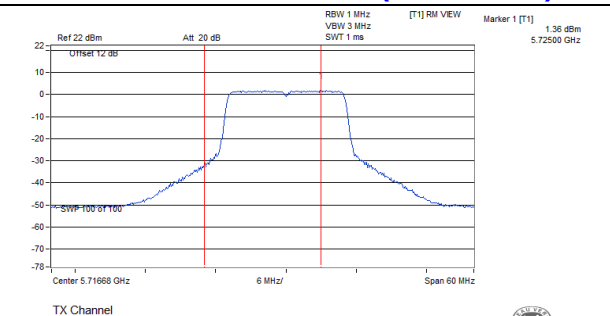
TX Channel Bandwidth 16.67 MHz Power 13.61 dBm

802.11a_Chain 0: CH 144 (For U-NII-3)



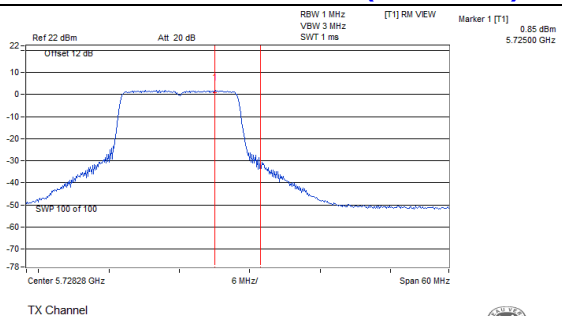
TX Channel Bandwidth 6.5 MHz Power 7.74 dBm

802.11a_Chain 1: CH 144 (For U-NII-2C)



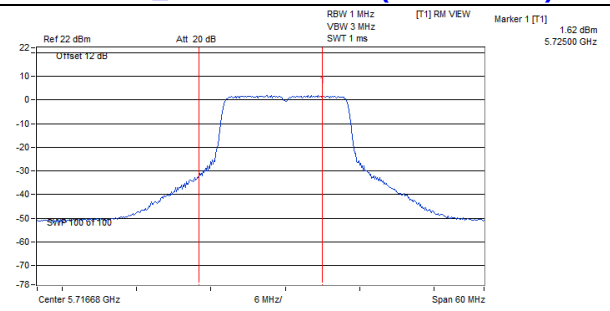
TX Channel Bandwidth 16.64 MHz Power 13.63 dBm

802.11a_Chain 1: CH 144 (For U-NII-3)



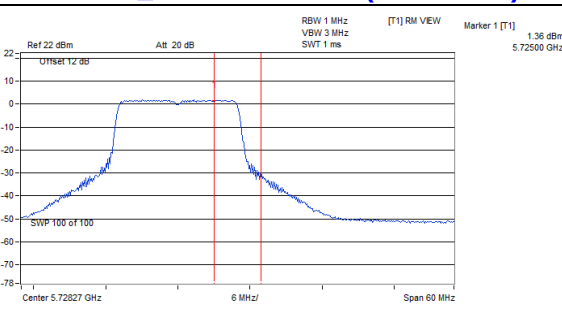
TX Channel Bandwidth 6.56 MHz Power 7.77 dBm

802.11a_Chain 2: CH 144 (For U-NII-2C)



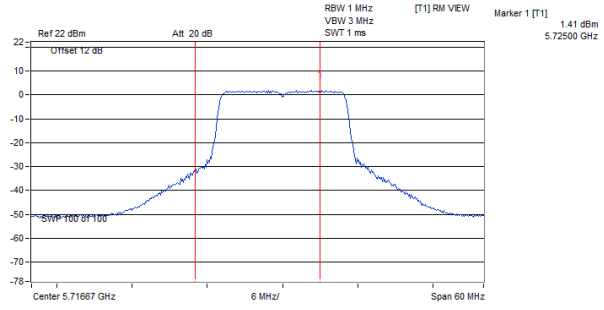
TX Channel Bandwidth 16.64 MHz Power 13.67 dBm

802.11a_Chain 2: CH 144 (For U-NII-3)



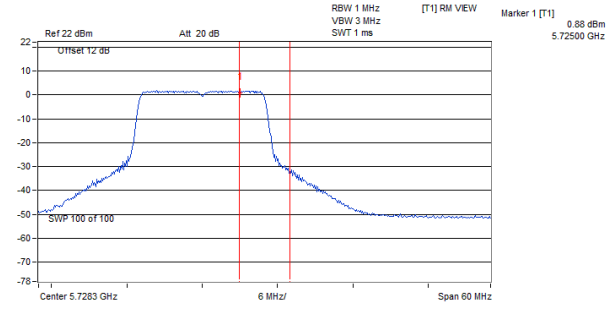
TX Channel Bandwidth 6.54 MHz Power 7.82 dBm

802.11a_Chain 3: CH 144 (For U-NII-2C)

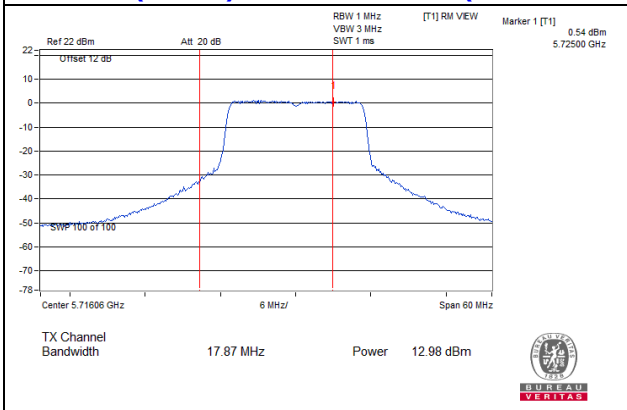
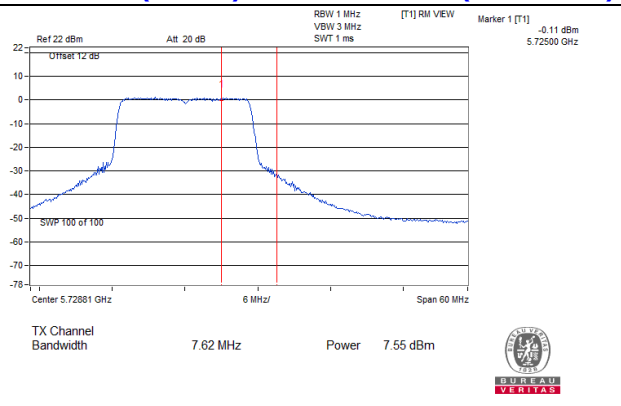
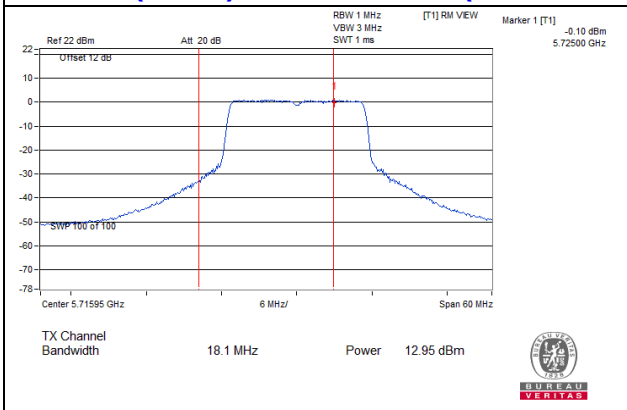
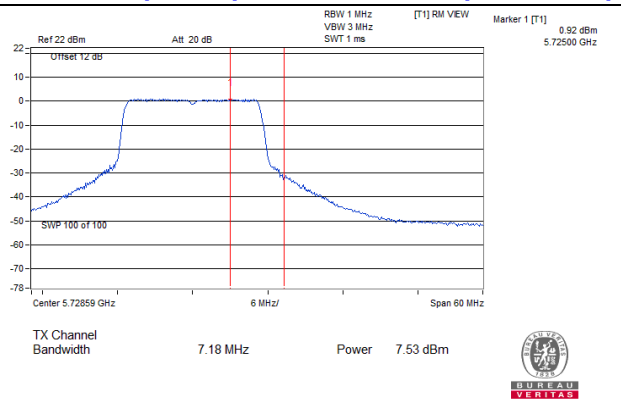
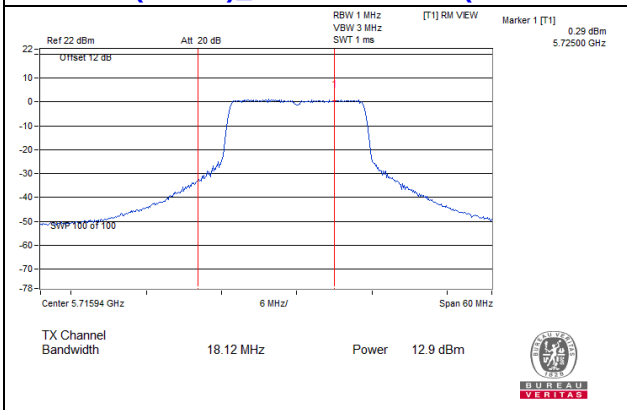
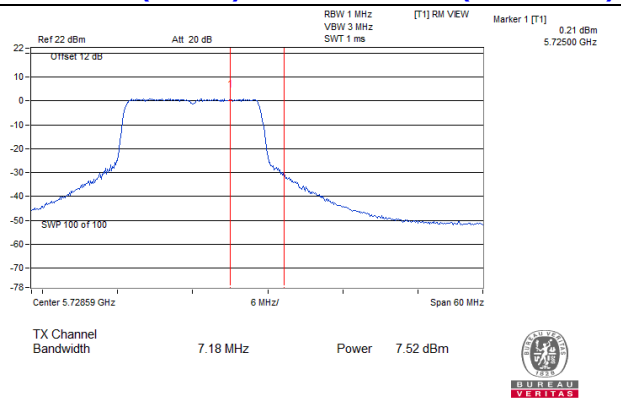


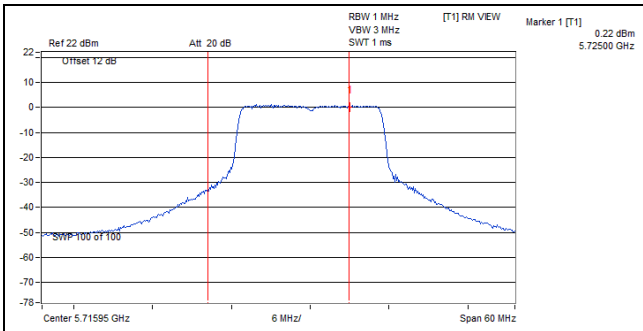
TX Channel Bandwidth 16.66 MHz Power 13.63 dBm

802.11a_Chain 3: CH 144 (For U-NII-3)

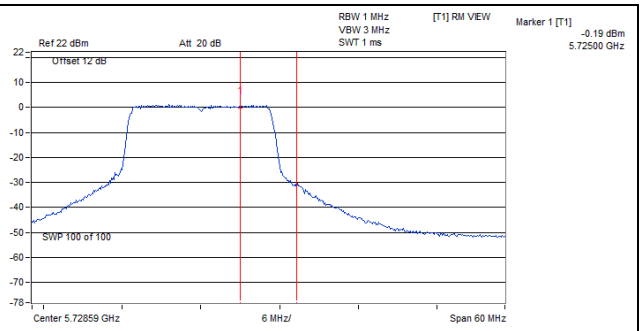


TX Channel Bandwidth 6.6 MHz Power 7.76 dBm

Spectrum Plot of Straddle channel	
802.11an (20MHz)_Chain 0: CH 144 (For U-NII-2C)	**802.11an (20MHz)_Chain 0: CH 144(For U-NII-3)**
 TX Channel Bandwidth 17.87 MHz Power 12.98 dBm	 TX Channel Bandwidth 7.62 MHz Power 7.55 dBm
802.11an (20MHz)_Chain 1: CH 144 (For U-NII-2C)	**802.11an (20MHz)_Chain 1: CH 144(For U-NII-3)**
 TX Channel Bandwidth 18.1 MHz Power 12.95 dBm	 TX Channel Bandwidth 7.18 MHz Power 7.53 dBm
802.11an (20MHz)_Chain 2: CH 144 (For U-NII-2C)	**802.11an (20MHz)_Chain 2: CH 144(For U-NII-3)**
 TX Channel Bandwidth 18.12 MHz Power 12.9 dBm	 TX Channel Bandwidth 7.18 MHz Power 7.52 dBm
802.11an (20MHz)_Chain 3: CH 144 (For U-NII-2C)	**802.11an (20MHz)_Chain 3: CH 144(For U-NII-3)**



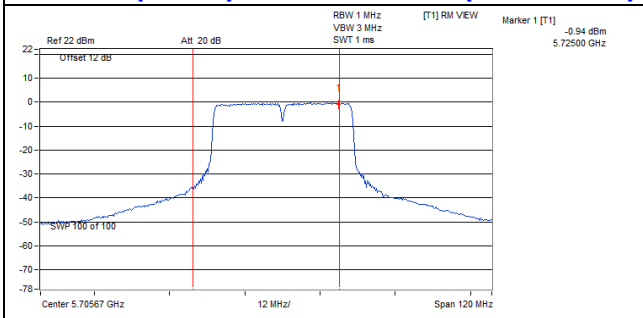
TX Channel Bandwidth 18.09 MHz Power 12.92 dBm



TX Channel Bandwidth 7.19 MHz Power 7.55 dBm

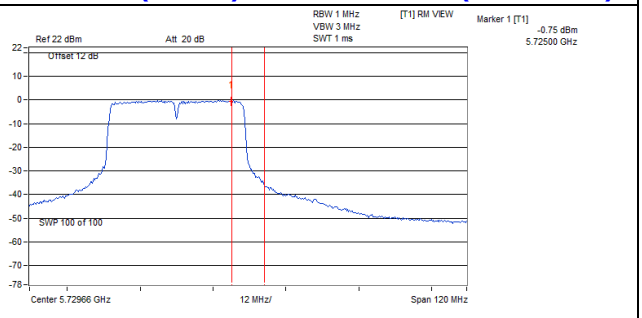
Spectrum Plot of Straddle channel

802.11an (40MHz)_Chain 0: CH 142 (For U-NII-2C)



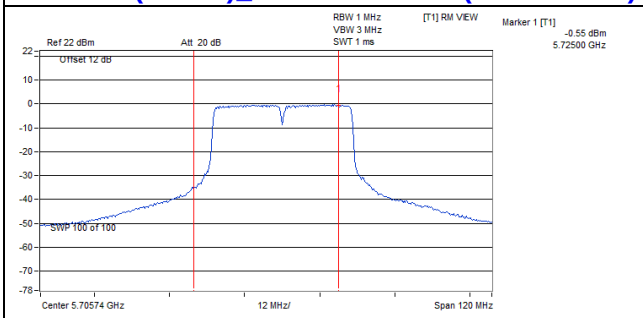
TX Channel Bandwidth 38.65 MHz Power 15.4 dBm

802.11an (40MHz)_Chain 0: CH 142(For U-NII-3)



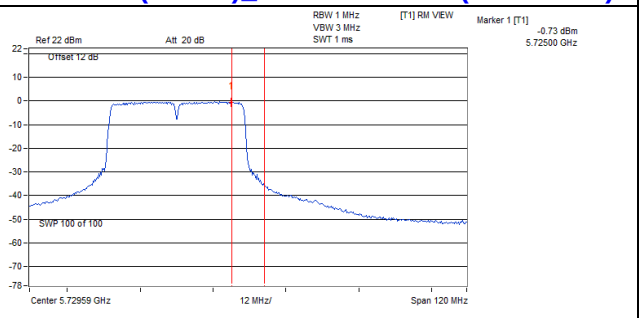
TX Channel Bandwidth 9.32 MHz Power 5.67 dBm

802.11an (40MHz)_Chain 1: CH 142 (For U-NII-2C)



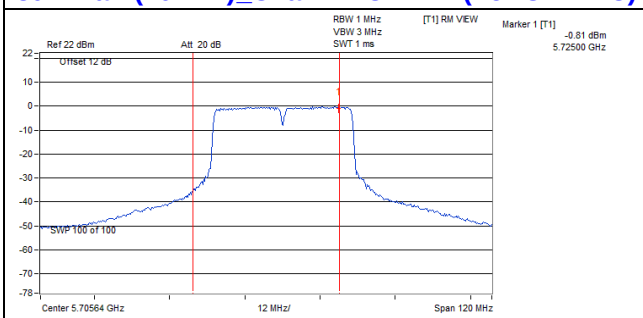
TX Channel Bandwidth 38.52 MHz Power 15.37 dBm

802.11an (40MHz)_Chain 1: CH 142(For U-NII-3)



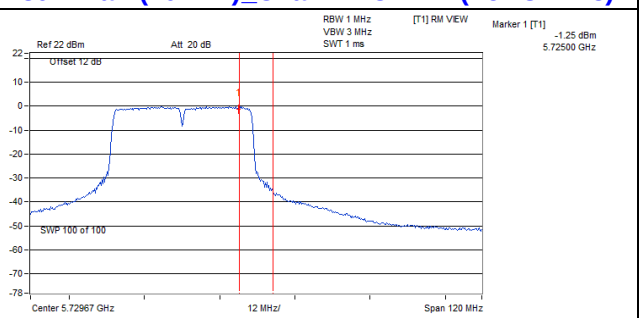
TX Channel Bandwidth 9.19 MHz Power 5.6 dBm

802.11an (40MHz)_Chain 2: CH 142 (For U-NII-2C)

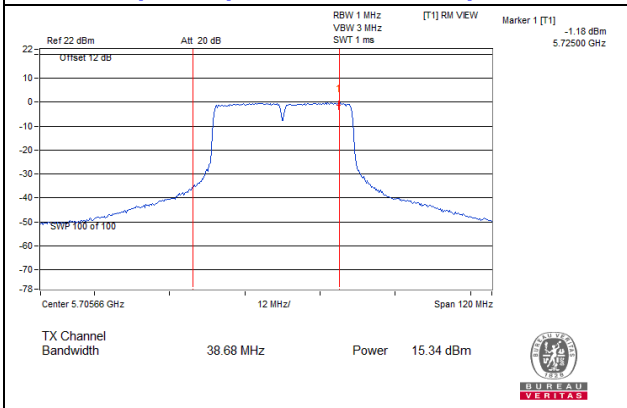
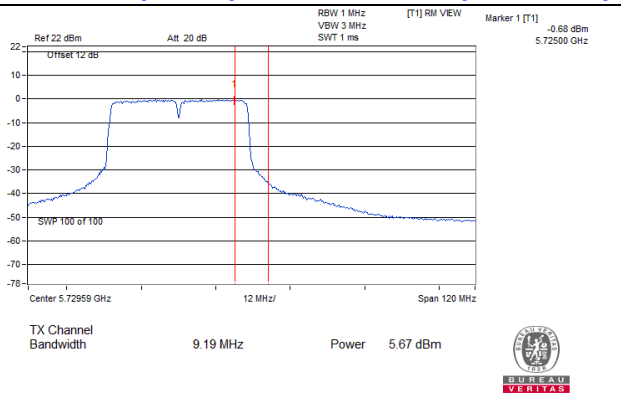
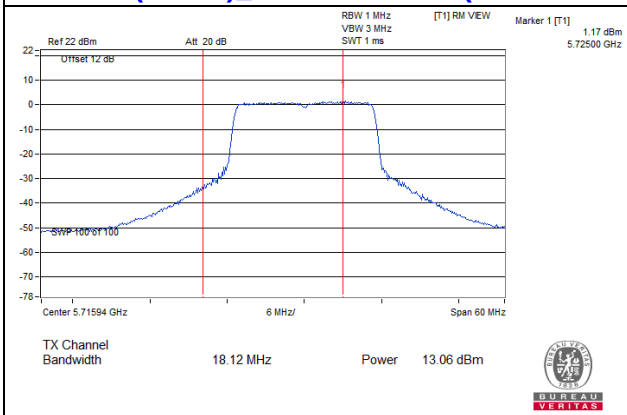
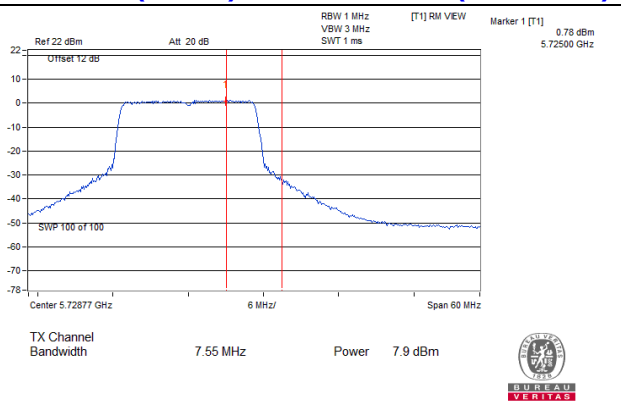
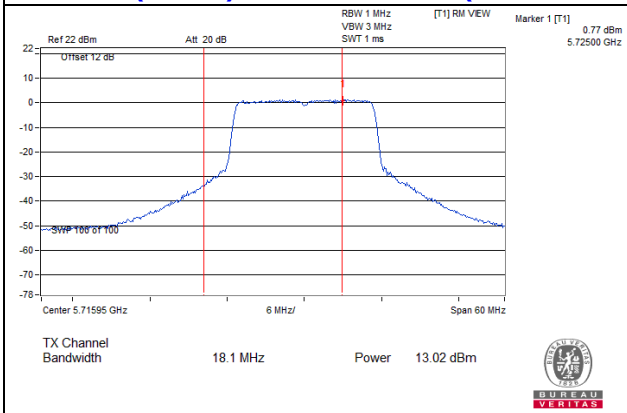
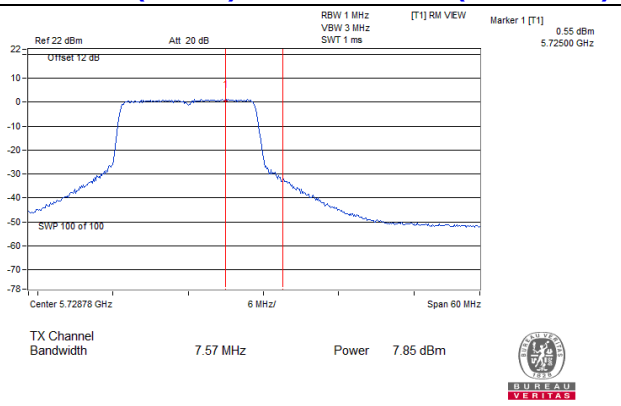


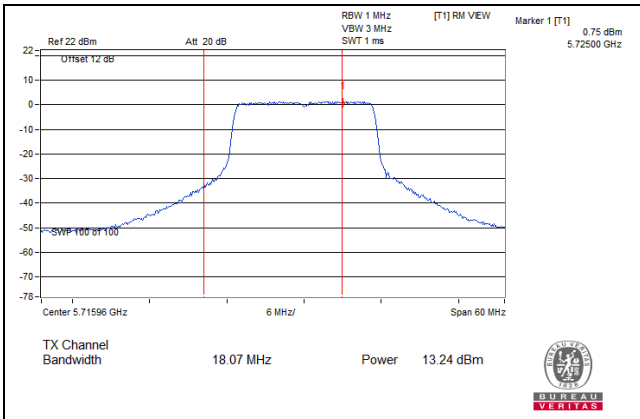
TX Channel Bandwidth 38.71 MHz Power 15.36 dBm

802.11an (40MHz)_Chain 2: CH 142(For U-NII-3)

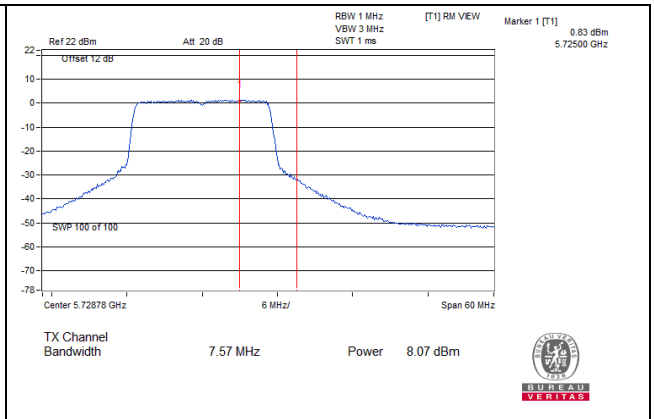


TX Channel Bandwidth 9.35 MHz Power 5.6 dBm

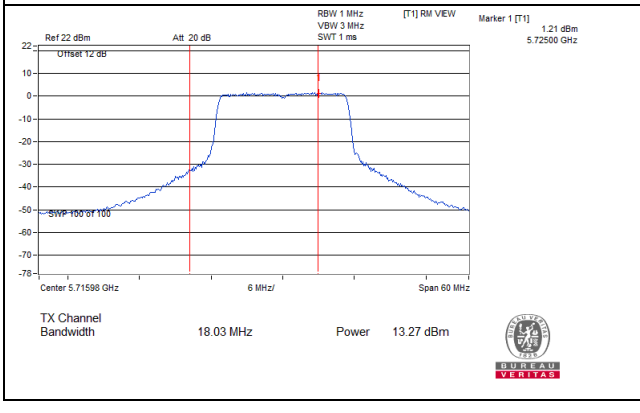
802.11an (40MHz)_Chain 3: CH 142 (For U-NII-2C)	802.11an (40MHz)_Chain 3: CH 142(For U-NII-3)
 TX Channel Bandwidth 38.68 MHz Power 15.34 dBm	 TX Channel Bandwidth 9.19 MHz Power 5.67 dBm
Spectrum Plot of Straddle channel	
802.11ac (20MHz)_Chain 0: CH 144 (For U-NII-2C)	802.11ac (20MHz)_Chain 0: CH 144(For U-NII-3)
 TX Channel Bandwidth 18.12 MHz Power 13.06 dBm	 TX Channel Bandwidth 7.55 MHz Power 7.9 dBm
802.11ac (20MHz)_Chain 1: CH 144 (For U-NII-2C)	802.11ac (20MHz)_Chain 1: CH 144(For U-NII-3)
 TX Channel Bandwidth 18.1 MHz Power 13.02 dBm	 TX Channel Bandwidth 7.57 MHz Power 7.85 dBm
802.11ac (20MHz)_Chain 2: CH 144 (For U-NII-2C)	802.11ac (20MHz)_Chain 2: CH 144(For U-NII-3)

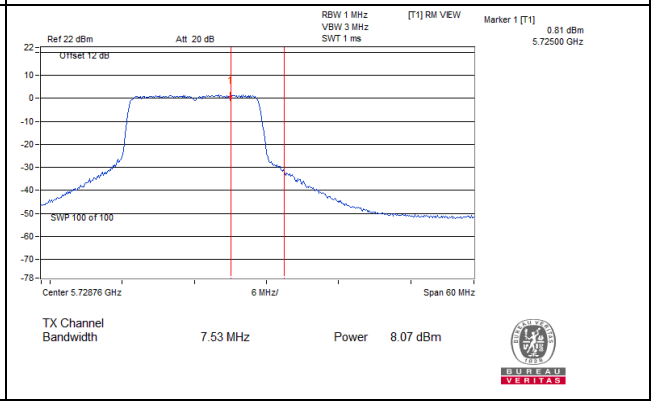


802.11ac (20MHz)_Chain 3: CH 144 (For U-NII-2C)



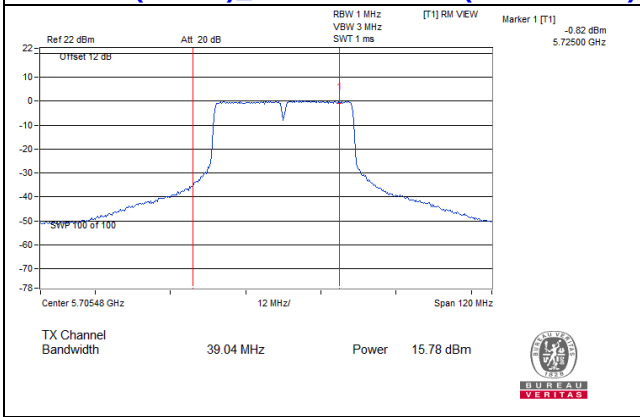
802.11ac (20MHz)_Chain 3: CH 144(For U-NII-3)



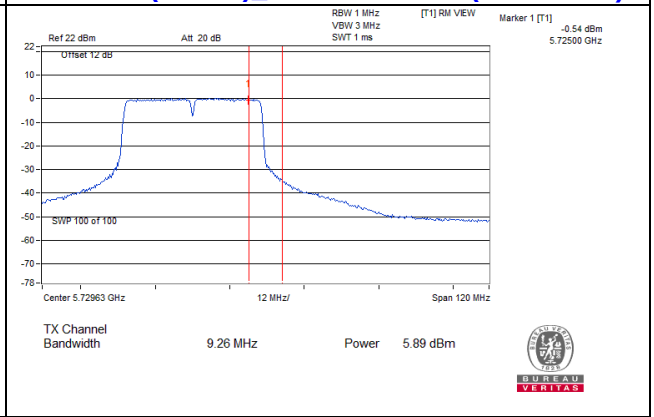


Spectrum Plot of Straddle channel

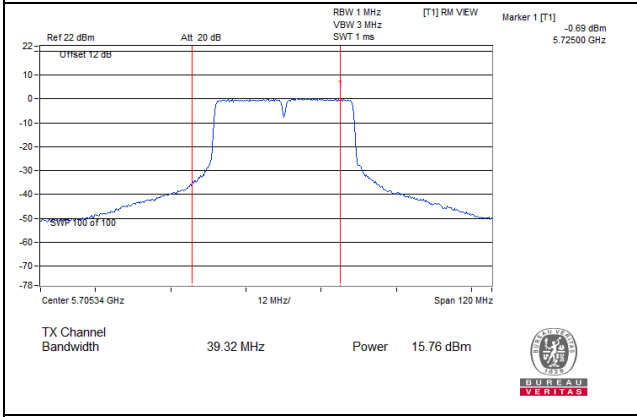
802.11ac (40MHz)_Chain 0: CH 142 (For U-NII-2C)



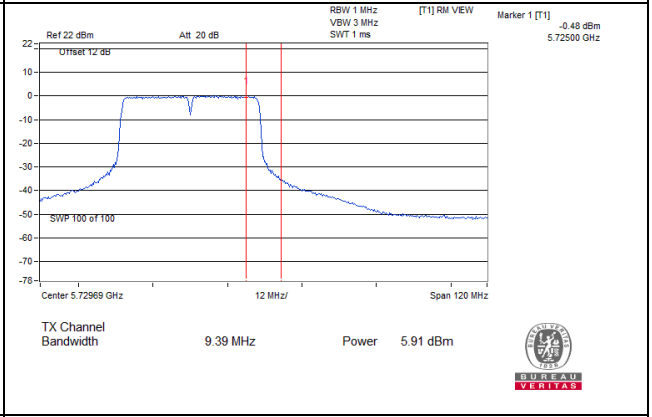
802.11ac (40MHz)_Chain 0: CH 142(For U-NII-3)



802.11ac (40MHz)_Chain 1: CH 142 (For U-NII-2C)

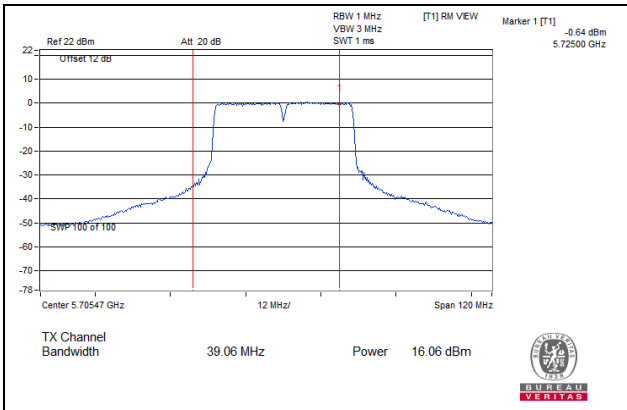


802.11ac (40MHz)_Chain 1: CH 142(For U-NII-3)

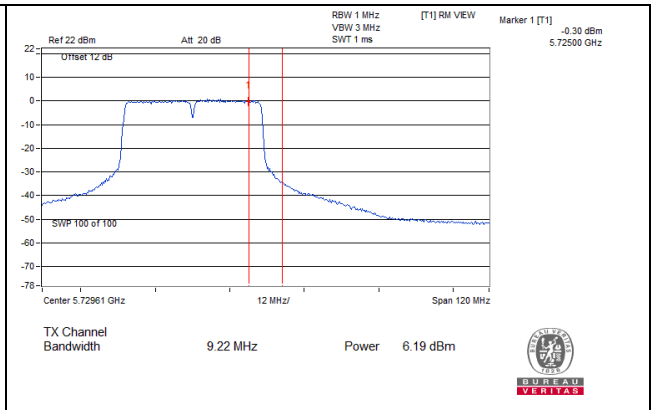


802.11ac (40MHz)_Chain 2: CH 142 (For U-NII-2C)

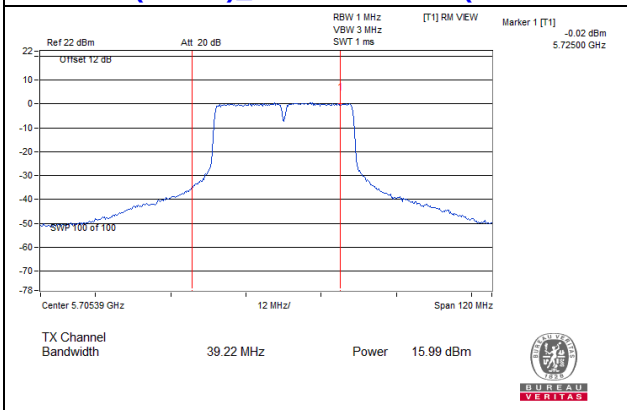
802.11ac (40MHz)_Chain 2: CH 142(For U-NII-3)

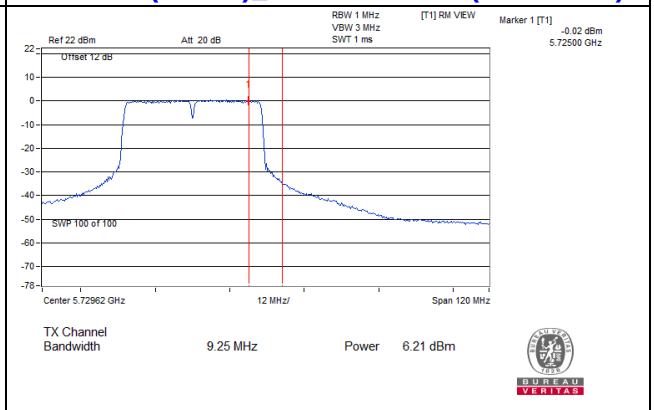


802.11ac (40MHz)_Chain 3: CH 142 (For U-NII-2C)



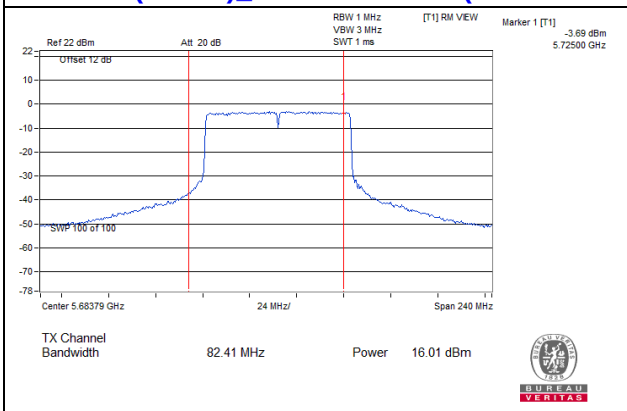
802.11ac (40MHz)_Chain 3: CH 142(For U-NII-3)



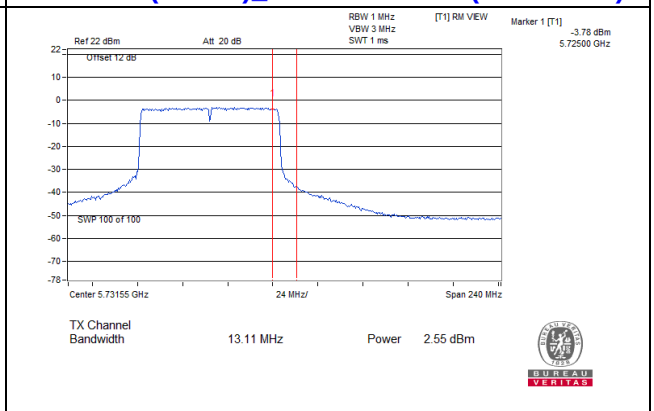


Spectrum Plot of Straddle channel

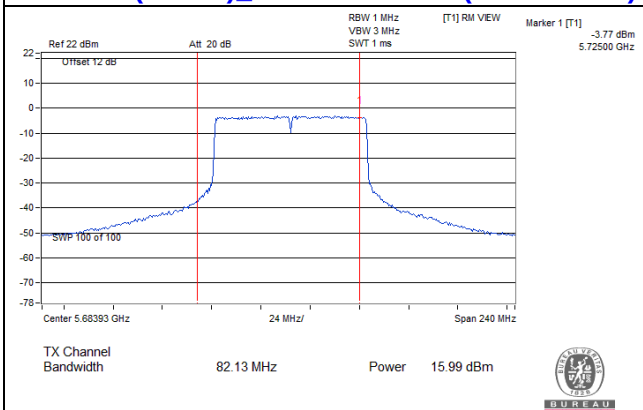
802.11ac (80MHz)_Chain 0: CH 138 (For U-NII-2C)



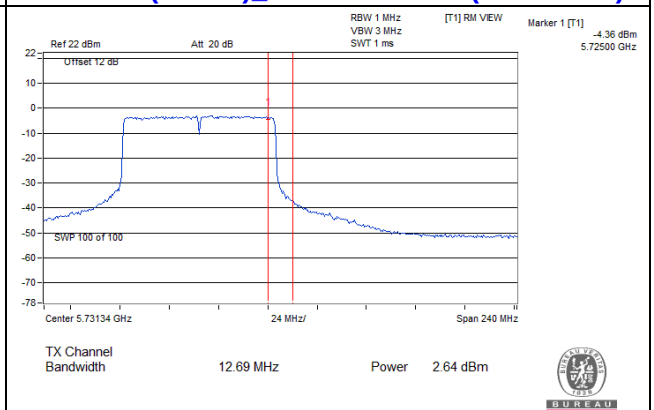
802.11ac (80MHz)_Chain 0: CH 138(For U-NII-3)



802.11ac (80MHz)_Chain 1: CH 138 (For U-NII-2C)

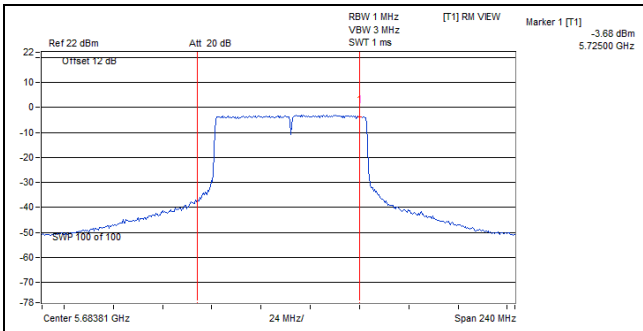


802.11ac (80MHz)_Chain 1: CH 138(For U-NII-3)

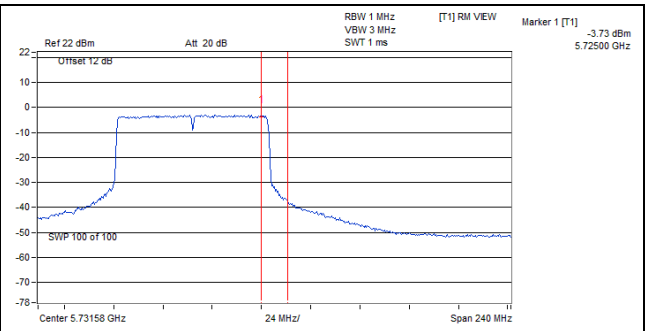


802.11ac (80MHz)_Chain 2: CH 138 (For U-NII-2C)

802.11ac (80MHz)_Chain 2: CH 138(For U-NII-3)

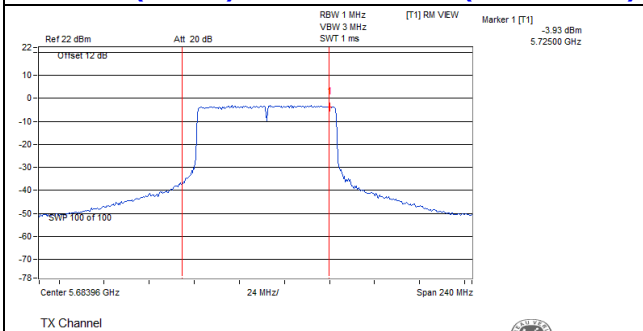


TX Channel Bandwidth 82.37 MHz Power 16.1 dBm



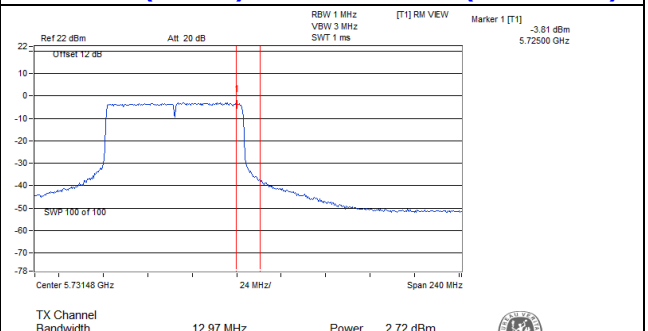
TX Channel Bandwidth 13.17 MHz Power 2.9 dBm

802.11ac (80MHz)_Chain 3: CH 138 (For U-NII-2C)



TX Channel Bandwidth 82.07 MHz Power 16.06 dBm

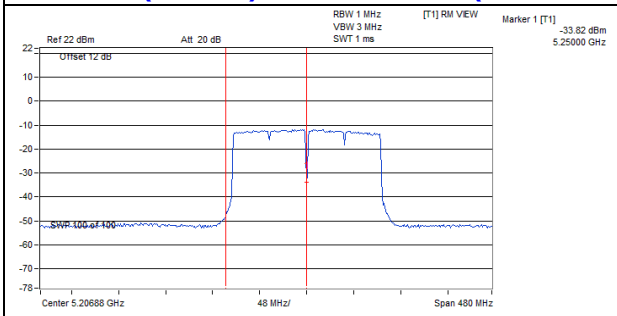
802.11ac (80MHz)_Chain 3: CH 138(For U-NII-3)



TX Channel Bandwidth 12.97 MHz Power 2.72 dBm

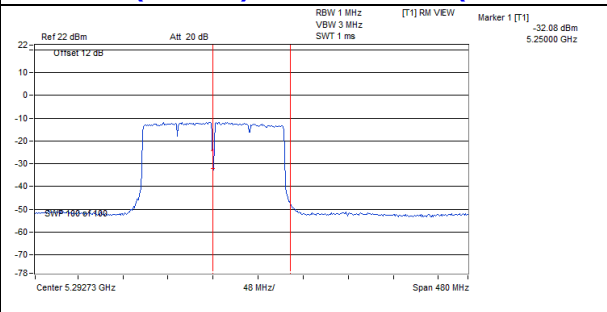
Spectrum Plot of Straddle channel

802.11ac (160MHz)_Chain 0: CH 50 (For U-NII-1)



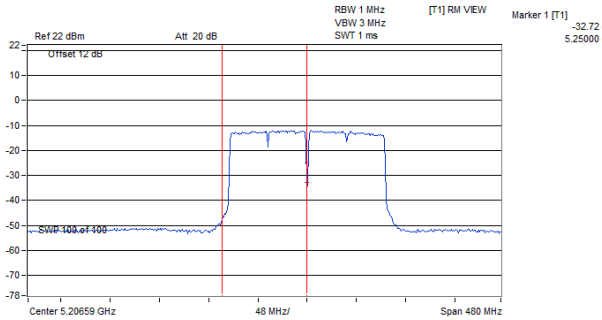
TX Channel Bandwidth 86.23 MHz Power 7.36 dBm

802.11ac (160MHz)_Chain 0: CH 50(For U-NII-2A)



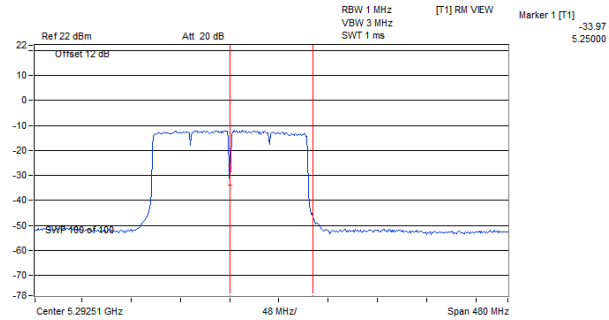
TX Channel Bandwidth 85.47 MHz Power 7.09 dBm

802.11ac (160MHz)_Chain 1: CH 50 (For U-NII-1)



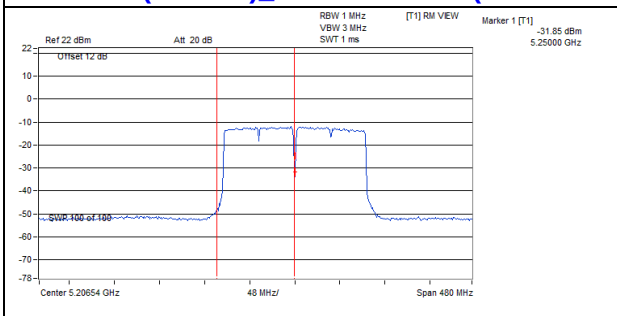
TX Channel Bandwidth 86.81 MHz Power 7.25 dBm

802.11ac (160MHz)_Chain 1: CH 50(For U-NII-2A)



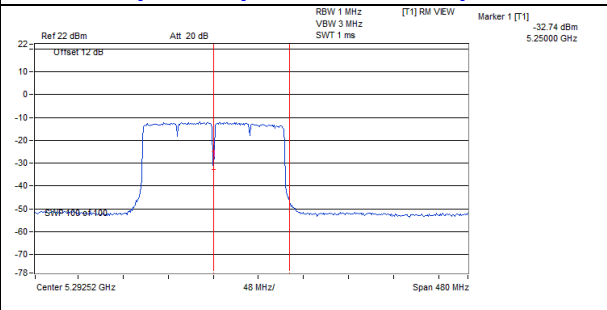
TX Channel Bandwidth 85.02 MHz Power 6.98 dBm

802.11ac (160MHz)_Chain 2: CH 50 (For U-NII-1)



TX Channel Bandwidth 86.91 MHz Power 7.1 dBm

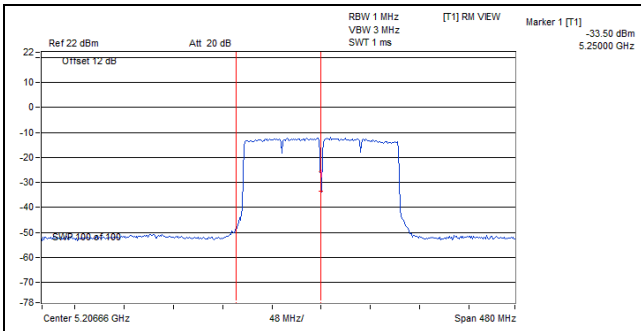
802.11ac (160MHz)_Chain 2: CH 50(For U-NII-2A)



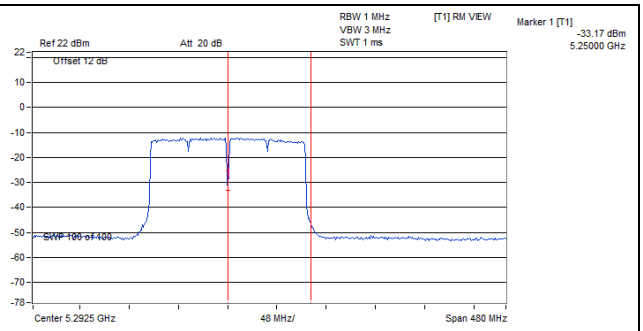
TX Channel Bandwidth 85.04 MHz Power 6.87 dBm

802.11ac (160MHz)_Chain 3: CH 50 (For U-NII-1)

802.11ac (160MHz)_Chain 3: CH 50(For U-NII-2A)



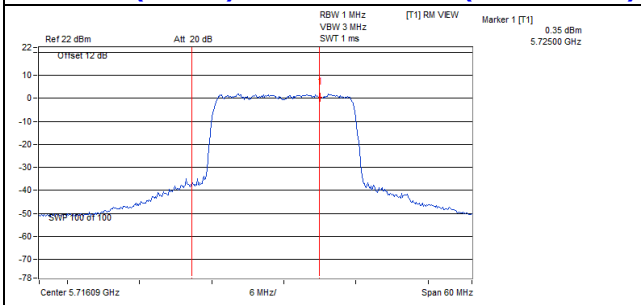
TX Channel Bandwidth 86.68 MHz Power 7.04 dBm



TX Channel Bandwidth 85 MHz Power 6.81 dBm

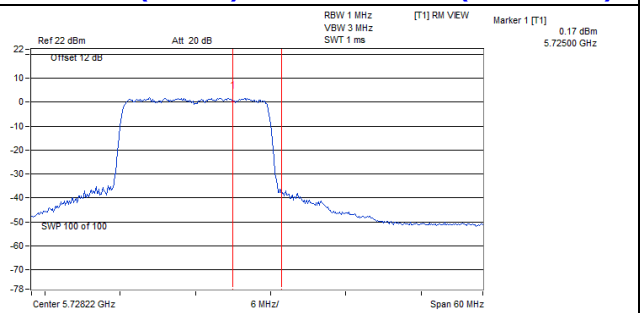
Spectrum Plot of Straddle channel

802.11ax (20MHz)_Chain 0: CH 144 (For U-NII-2C)



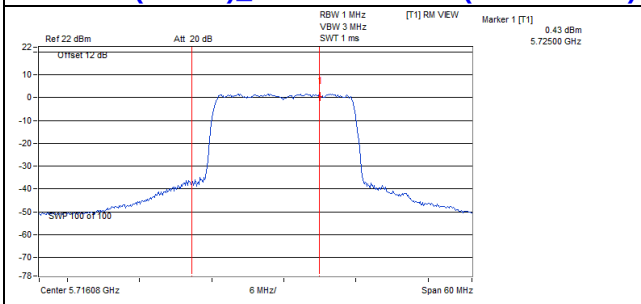
TX Channel Bandwidth 17.82 MHz Power 13.6 dBm

802.11ax (20MHz)_Chain 0: CH 144(For U-NII-3)



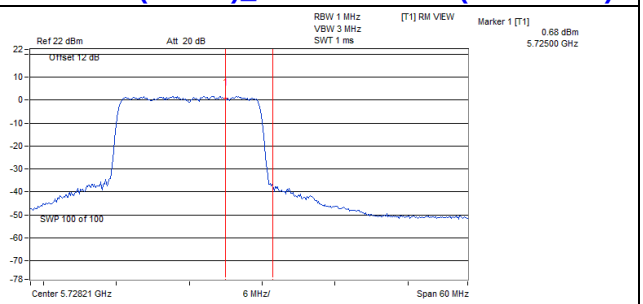
TX Channel Bandwidth 6.44 MHz Power 8.59 dBm

802.11ax (20MHz)_Chain 1: CH 144 (For U-NII-2C)



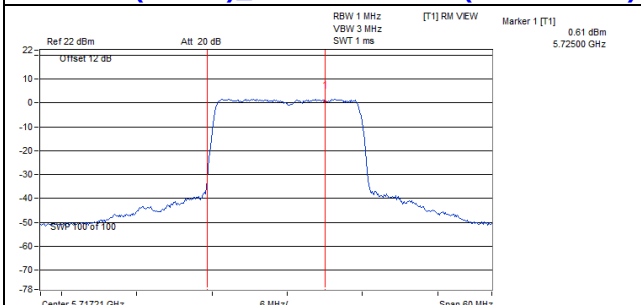
TX Channel Bandwidth 17.84 MHz Power 13.57 dBm

802.11ax (20MHz)_Chain 1: CH 144(For U-NII-3)



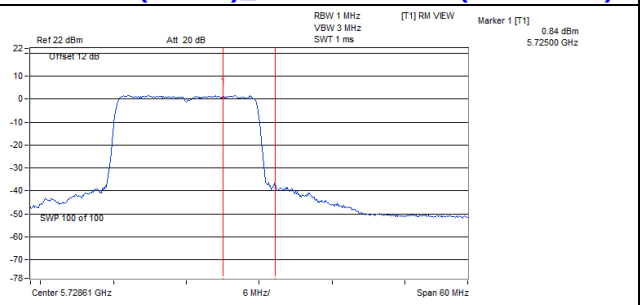
TX Channel Bandwidth 6.43 MHz Power 8.55 dBm

802.11ax (20MHz)_Chain 2: CH 144 (For U-NII-2C)



TX Channel Bandwidth 15.57 MHz Power 13.64 dBm

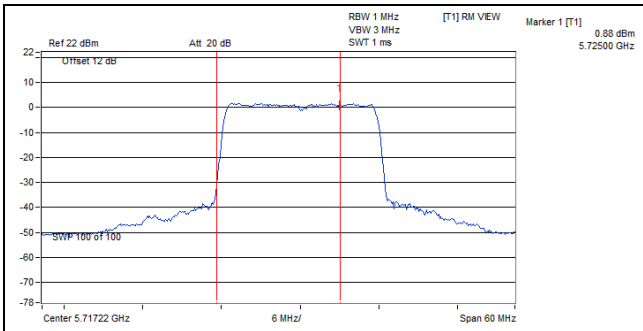
802.11ax (20MHz)_Chain 2: CH 144(For U-NII-3)



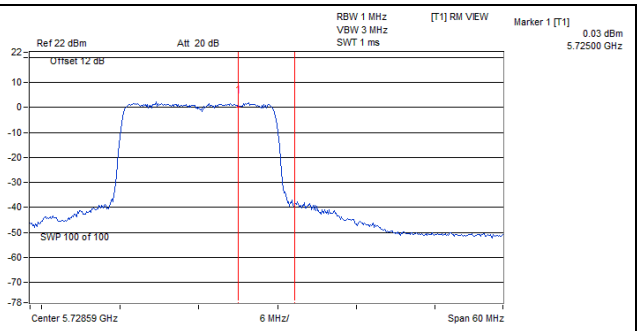
TX Channel Bandwidth 7.23 MHz Power 8.68 dBm

802.11ax (20MHz)_Chain 3: CH 144 (For U-NII-2C)

802.11ax (20MHz)_Chain 3: CH 144(For U-NII-3)



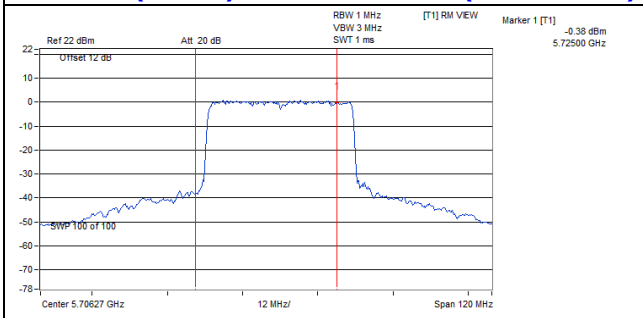
TX Channel Bandwidth 15.55 MHz Power 13.62 dBm



TX Channel Bandwidth 7.19 MHz Power 8.7 dBm

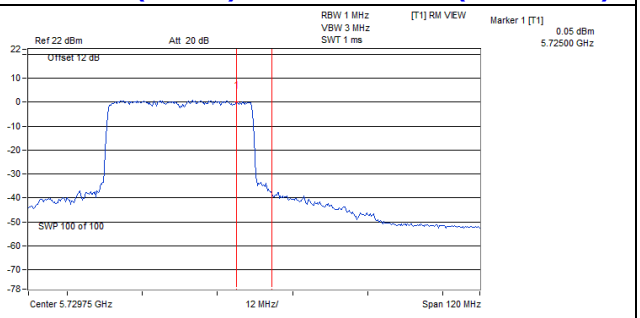
Spectrum Plot of Straddle channel

802.11ax (40MHz)_Chain 0: CH 142 (For U-NII-2C)



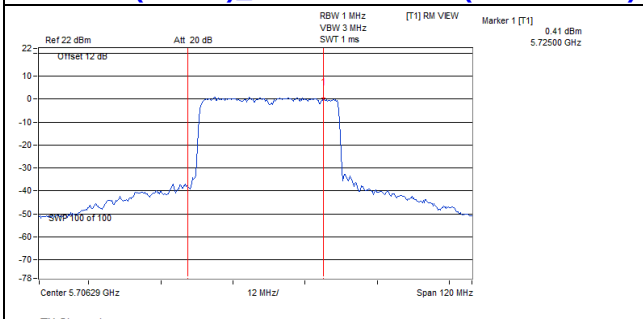
TX Channel Bandwidth 37.46 MHz Power 16.23 dBm

802.11ax (40MHz)_Chain 0: CH 142(For U-NII-3)



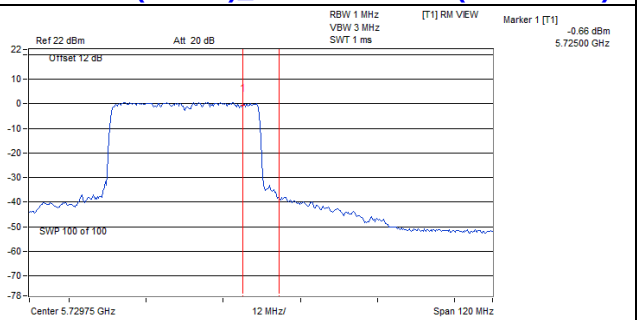
TX Channel Bandwidth 9.5 MHz Power 7.08 dBm

802.11ax (40MHz)_Chain 1: CH 142 (For U-NII-2C)



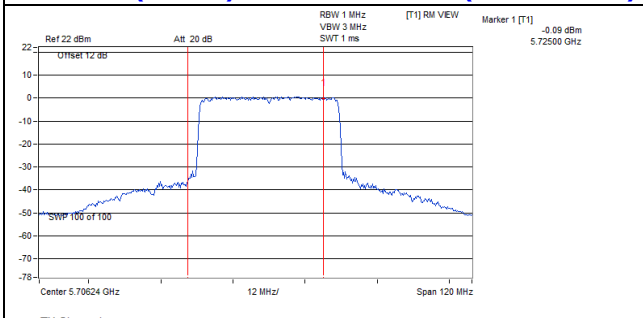
TX Channel Bandwidth 37.42 MHz Power 16.26 dBm

802.11ax (40MHz)_Chain 1: CH 142(For U-NII-3)



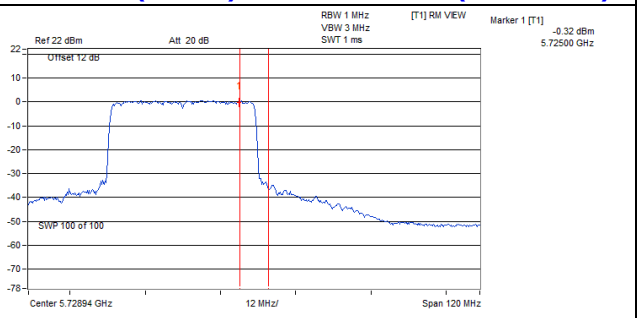
TX Channel Bandwidth 9.5 MHz Power 7.07 dBm

802.11ax (40MHz)_Chain 2: CH 142 (For U-NII-2C)



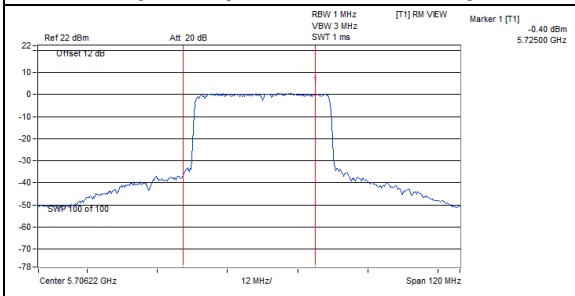
TX Channel Bandwidth 37.52 MHz Power 16.26 dBm

802.11ax (40MHz)_Chain 2: CH 142(For U-NII-3)



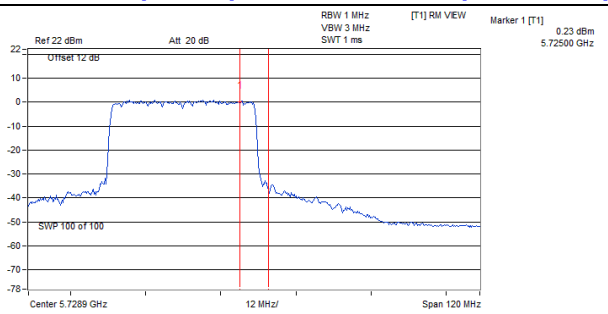
TX Channel Bandwidth 7.88 MHz Power 7.02 dBm

802.11an (40MHz)_Chain 3: CH 142 (For U-NII-2C)



TX Channel Bandwidth 37.55 MHz Power 16.25 dBm

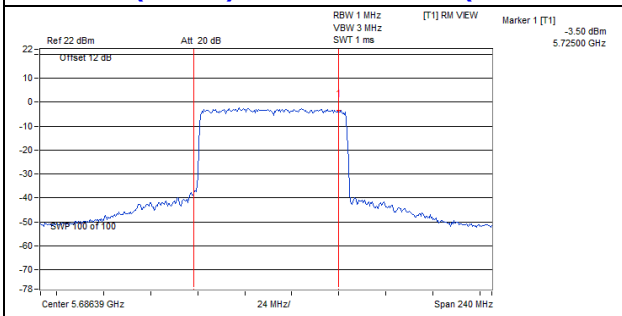
802.11an (40MHz)_Chain 3: CH 142(For U-NII-3)



TX Channel Bandwidth 7.8 MHz Power 7.16 dBm

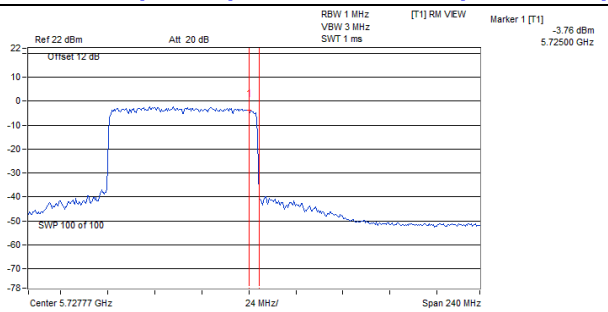
Spectrum Plot of Straddle channel

802.11ax (80MHz)_Chain 0: CH 138 (For U-NII-2C)



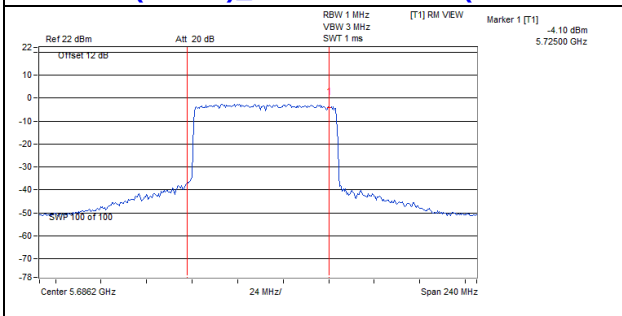
TX Channel Bandwidth 77.21 MHz Power 16.3 dBm

802.11ax (80MHz)_Chain 0: CH 138(For U-NII-3)



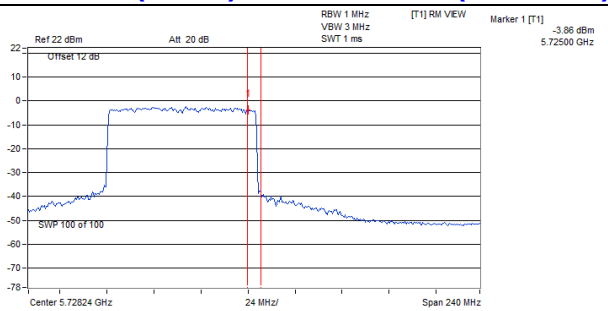
TX Channel Bandwidth 5.55 MHz Power 2.96 dBm

802.11ax (80MHz)_Chain 1: CH 138 (For U-NII-2C)



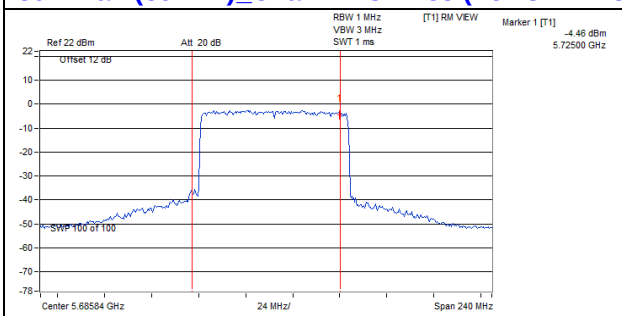
TX Channel Bandwidth 77.6 MHz Power 16.29 dBm

802.11ax (80MHz)_Chain 1: CH 138(For U-NII-3)



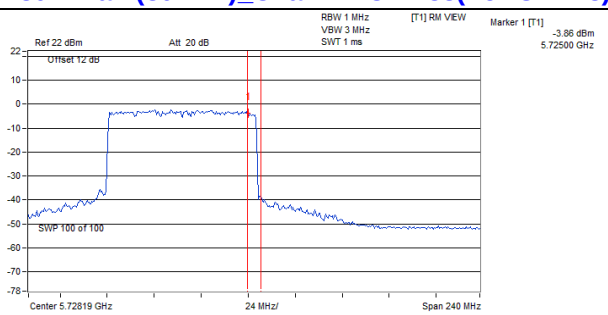
TX Channel Bandwidth 6.48 MHz Power 3.34 dBm

802.11ax (80MHz)_Chain 2: CH 138 (For U-NII-2C)

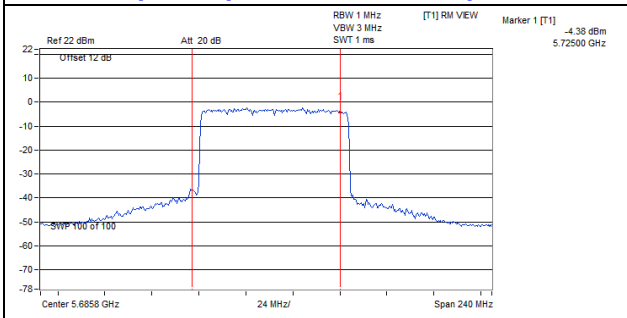
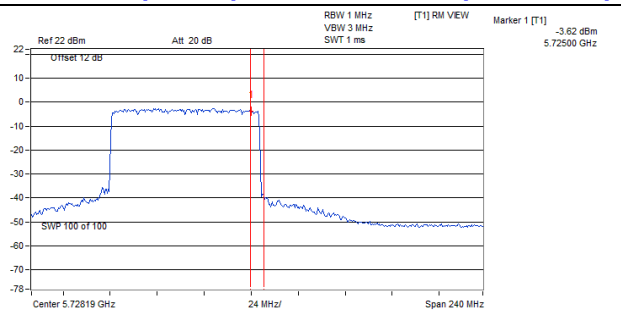


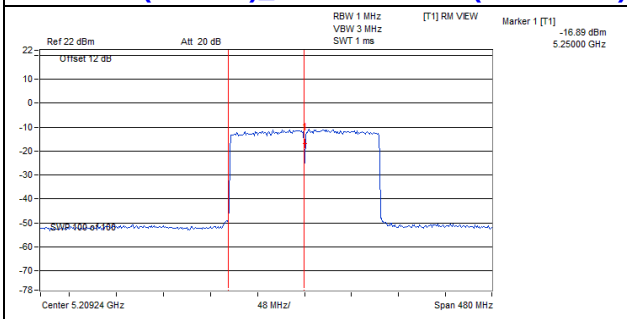
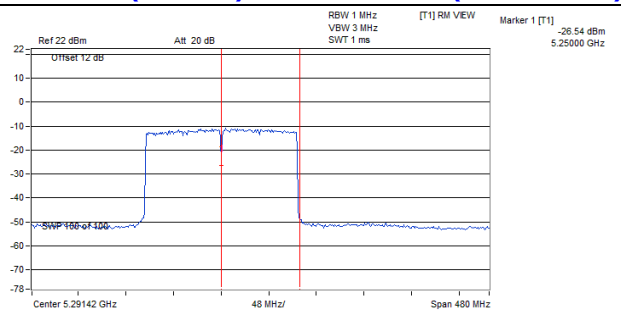
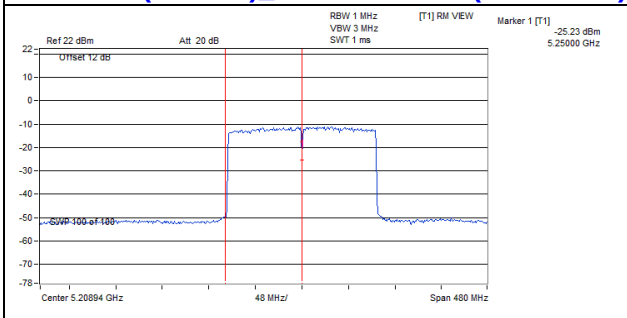
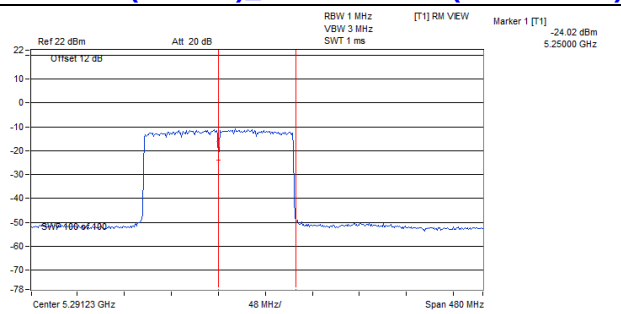
TX Channel Bandwidth 78.32 MHz Power 16.28 dBm

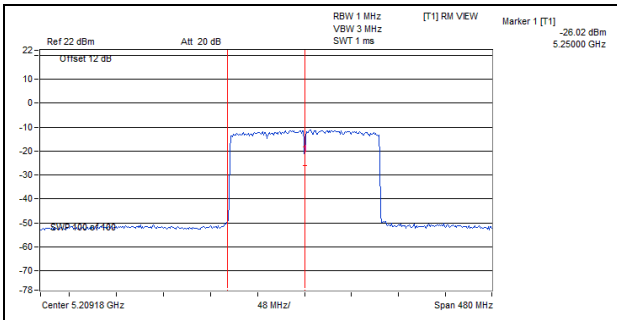
802.11ax (80MHz)_Chain 2: CH 138(For U-NII-3)

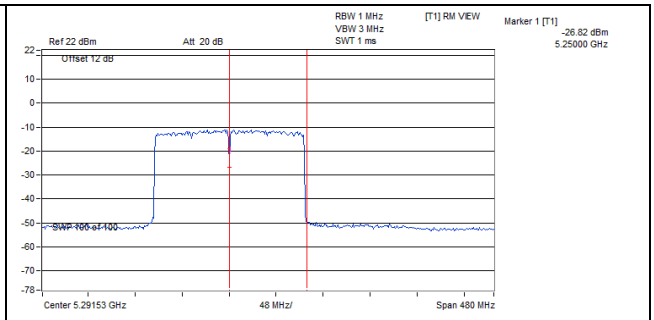


TX Channel Bandwidth 6.38 MHz Power 3.08 dBm

802.11ax (80MHz)_Chain 3: CH 138 (For U-NII-2C)	802.11ax (80MHz)_Chain 3: CH 138(For U-NII-3)
 TX Channel Bandwidth 78.39 MHz Power 16.26 dBm	 TX Channel Bandwidth 6.39 MHz Power 3.42 dBm

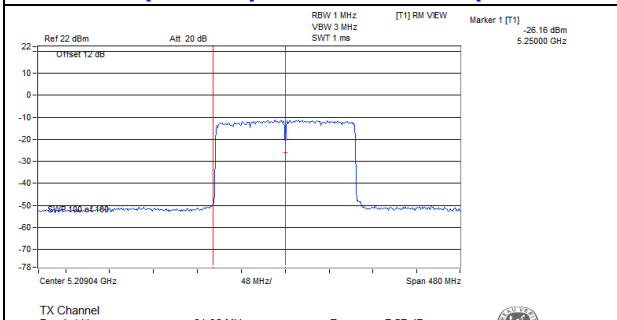
Spectrum Plot of Straddle channel	
802.11ax (160MHz)_Chain 0: CH 50 (For U-NII-1)	**802.11ax (160MHz)_Chain 0: CH 50(For U-NII-2A)**
 TX Channel Bandwidth 81.52 MHz Power 7.72 dBm	 TX Channel Bandwidth 82.84 MHz Power 8.12 dBm
802.11ax (160MHz)_Chain 1: CH 50 (For U-NII-1)	**802.11ax (160MHz)_Chain 1: CH 50(For U-NII-2A)**
 TX Channel Bandwidth 82.12 MHz Power 7.6 dBm	 TX Channel Bandwidth 82.47 MHz Power 7.96 dBm
802.11ax (160MHz)_Chain 2: CH 50 (For U-NII-1)	**802.11ax (160MHz)_Chain 2: CH 50(For U-NII-2A)**

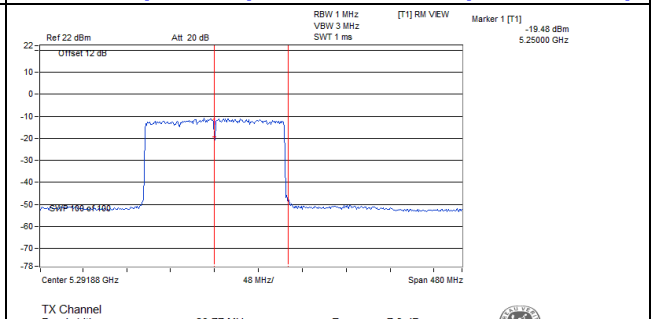




802.11ax (160MHz)_Chain 3: CH 50 (For U-NII-1)

802.11ax (160MHz)_Chain 3: CH 50(For U-NII-2A)





26dB Bandwidth:

802.11a

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	23.36	23.39	23.33	23.28
40	5200	29.81	29.81	29.87	29.85
48	5240	34.89	34.88	34.93	34.91
52	5260	24.69	24.56	24.61	24.62
60	5300	24.61	24.56	24.55	24.65
64	5320	23.21	23.2	23.14	23.17
100	5500	23.12	23.22	23.11	23.19
116	5580	24.64	24.55	24.6	24.57
140	5700	23.19	23.05	23.21	23.15
144	5720 For U-NII-2C	16.67	16.64	16.64	16.66
144	5720 For U-NII-3	6.5	6.56	6.54	6.6

802.11ax (20MHz)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	22.76	22.79	23.46	23.51
40	5200	26.89	26.9	23.4	23.06
48	5240	31.73	31.68	22.92	22.89
52	5260	23.16	23.15	22.87	22.89
60	5300	24.91	24.91	25.46	25.45
64	5320	22.26	22.19	23.84	23.89
100	5500	24.14	21.66	21.82	25.02
116	5580	23.9	23.93	23.25	23.23
140	5700	23.2	23.23	22.12	22.21
144	5720 For U-NII-2C	17.82	17.84	15.57	15.55
144	5720 For U-NII-3	6.44	6.43	7.23	7.19

802.11ax (40MHz)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	45.12	45.06	43.2	43.22
46	5230	43.22	43.23	43.1	43.05
54	5270	43.73	43.74	43.77	43.83
62	5310	42.94	44.57	42.36	42.33
102	5510	42.37	42.38	41.76	41.89
110	5550	44.75	44.75	44.75	44.83
134	5670	42.08	42.07	42.11	42.07
142	5710 For U-NII-2C	37.46	37.42	37.52	37.55
142	5710 For U-NII-3	9.5	9.5	7.88	7.8

802.11ax (80MHz)

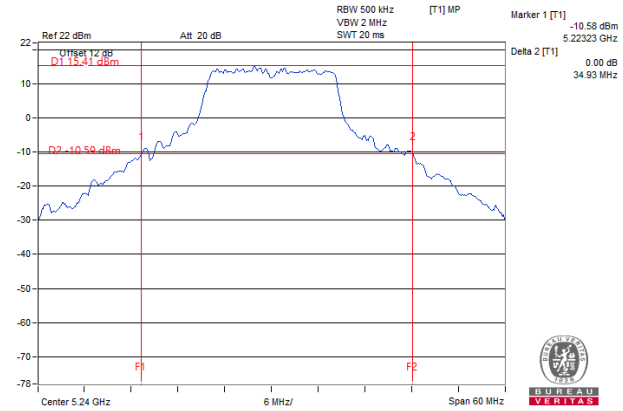
Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	81.76	81.69	81.68	81.69
58	5290	84.95	85	82.74	82.76
106	5530	85.32	85.3	83.01	83.06
122	5610	83.14	83.12	83.94	83.91
138	5690 For U-NII-2C	77.21	77.6	78.32	78.39
138	5690 For U-NII-3	5.55	6.48	6.38	6.39

802.11ax (160MHz)

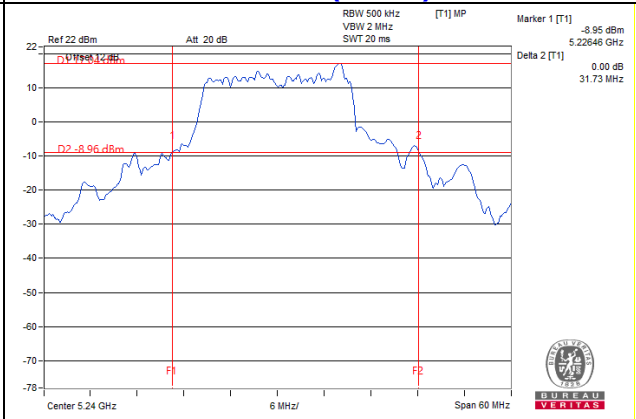
Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50	5250 For 5150~5250MHz	81.52	82.12	81.64	81.92
50	5250 For 5250~5350MHz	82.84	82.47	83.06	83.77
114	5570	165.8	165.2	164.4	166.7

Spectrum Plot of Worst Value

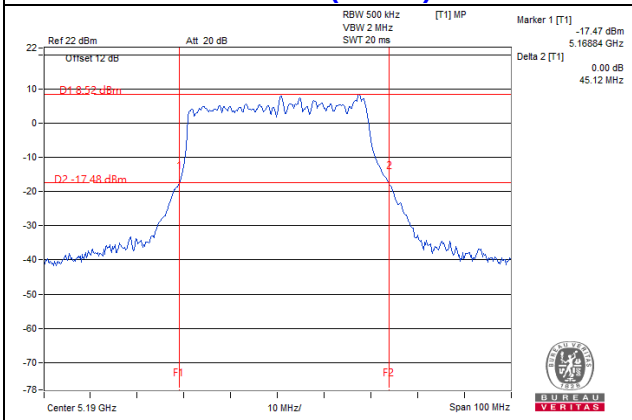
802.11a



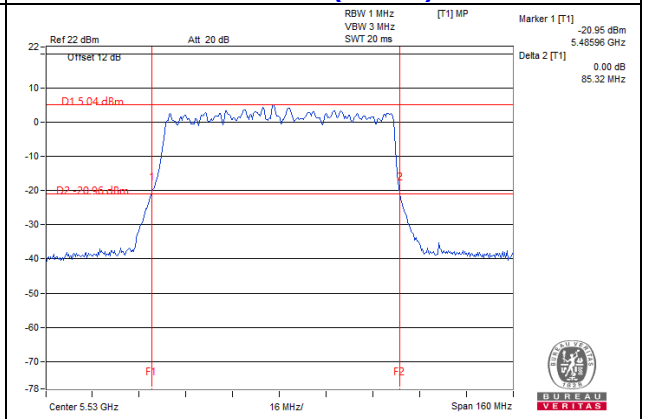
802.11ax (20MHz)



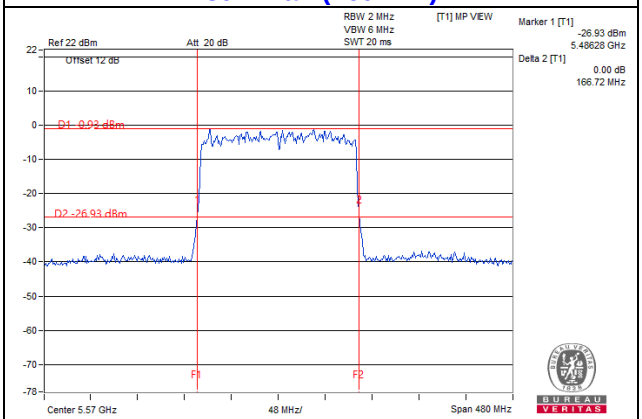
802.11ax (40MHz)



802.11ax (80MHz)

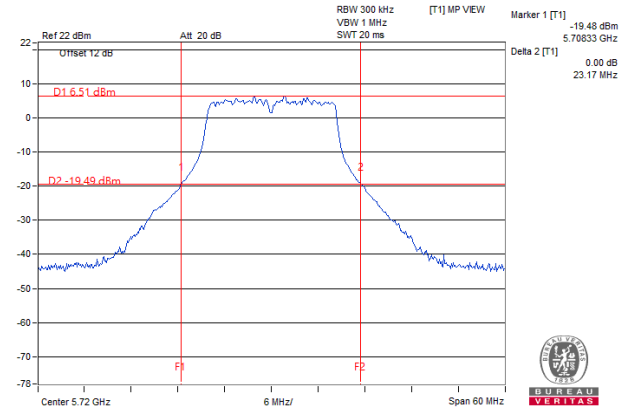


802.11ax (160MHz)

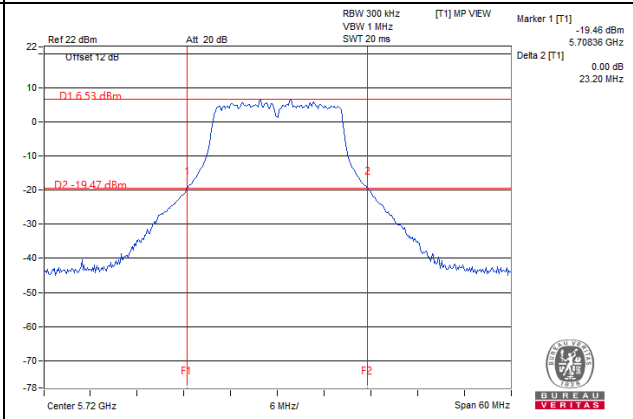


Spectrum Plot of Straddle Channels

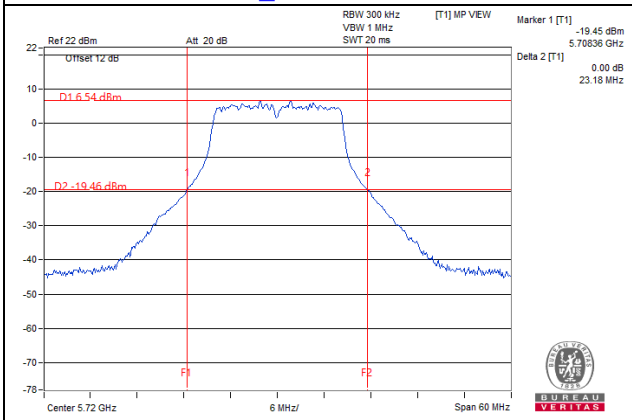
802.11a_Chain 0: CH 144



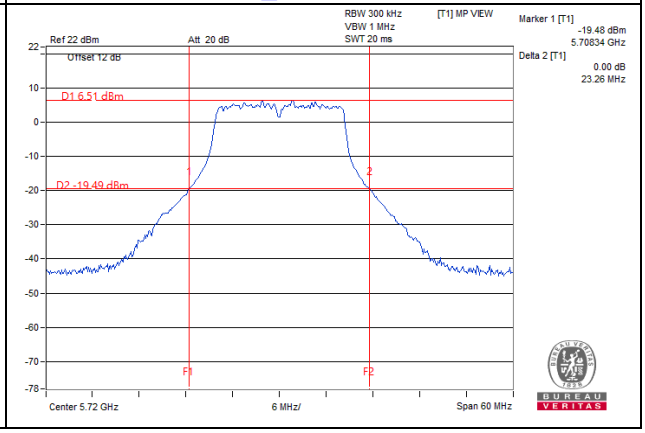
802.11a_Chain 1: CH 144



802.11a_Chain 2: CH 144

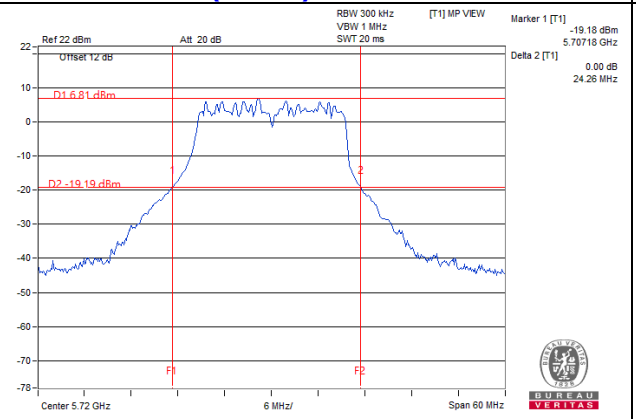


802.11a_Chain 3: CH 144

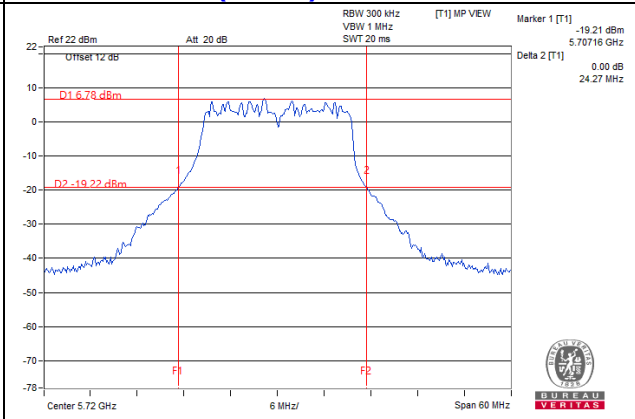


Spectrum Plot of Straddle Channels

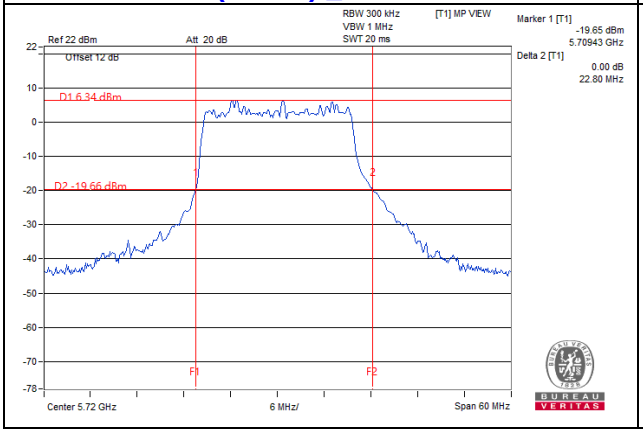
802.11ax (20MHz) _Chain 0: CH 144



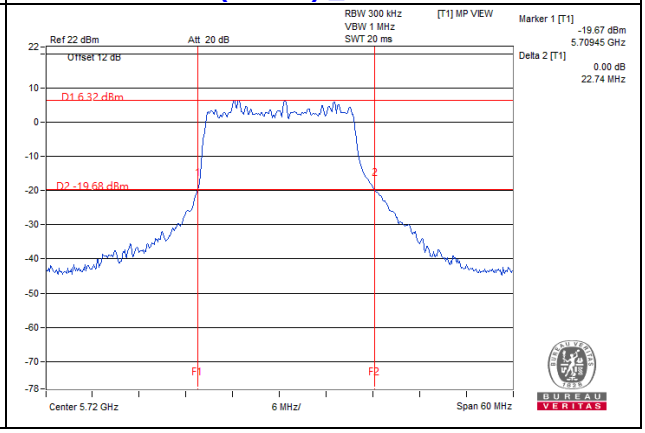
802.11ax (20MHz) _Chain 1: CH 144



802.11ax (20MHz) _Chain 2: CH 144

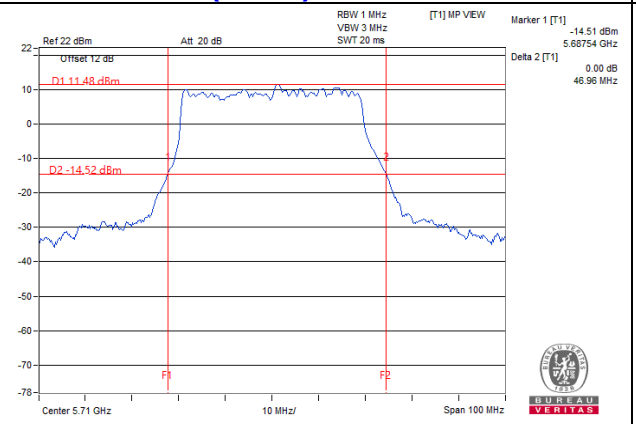


802.11ax (20MHz) _Chain 3: CH 144

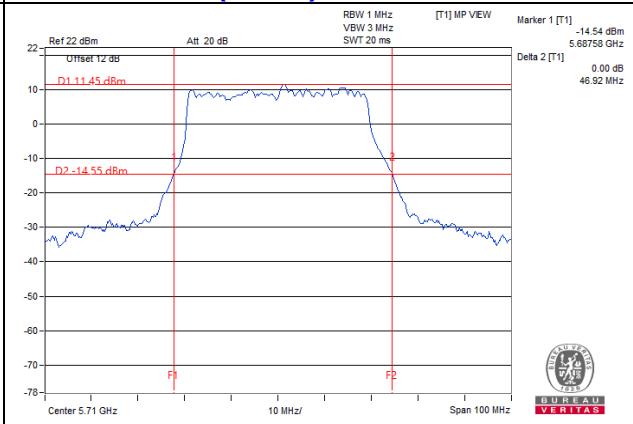


Spectrum Plot of Straddle Channels

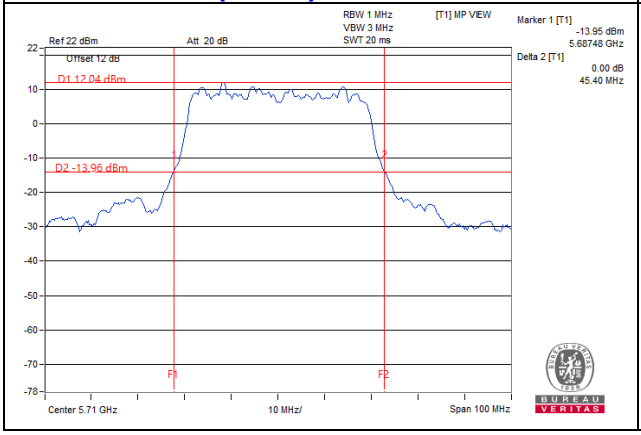
802.11ax (40MHz) _Chain 0: CH 142



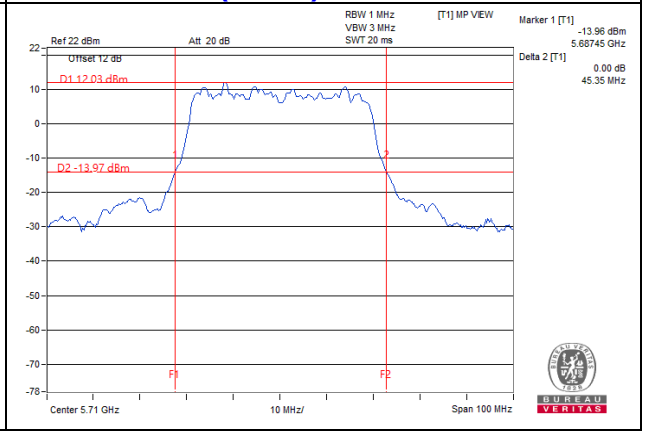
802.11ax (40MHz) _Chain 1: CH 142



802.11ax (40MHz) _Chain 2: CH 142

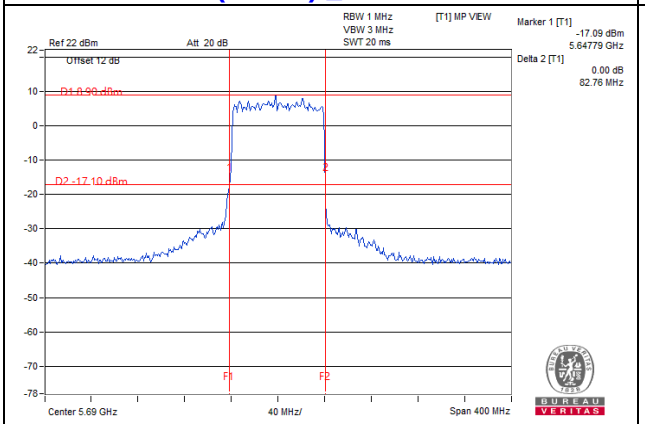


802.11ax (40MHz) _Chain 3: CH 142

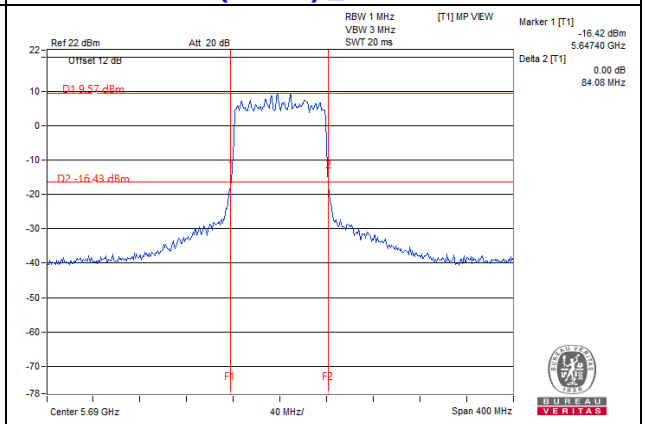


Spectrum Plot of Straddle Channels

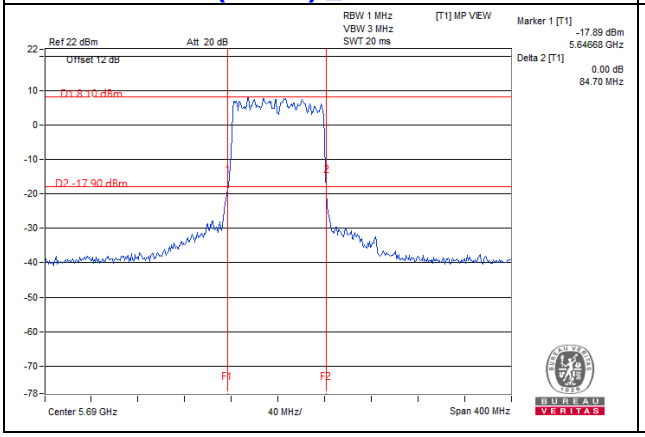
802.11ax (80MHz) _Chain 0: CH 138



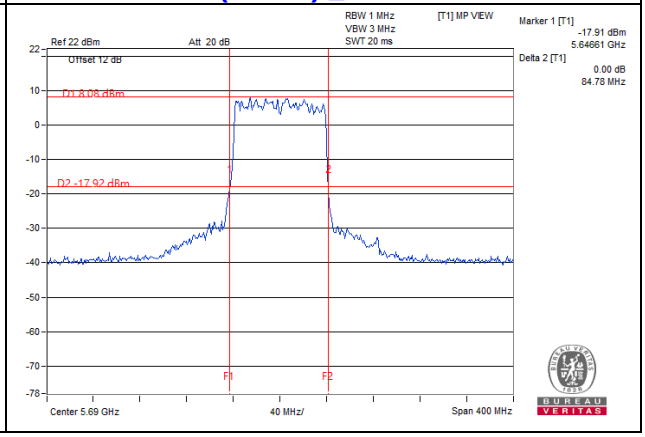
802.11ax (80MHz) _Chain 1: CH 138



802.11ax (80MHz) _Chain 2: CH 138



802.11ax (80MHz) _Chain 3: CH 138



EUT Maximum Conducted Power

802.11a

Frequency Band (MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350	**22.87**	**193.795**
5470~5725	**22.74**	**187.803**

802.11ax (20MHz)

Frequency Band (MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350	**23.43**	**220.13**
5470~5725	**23.37**	**217.282**

802.11ax (40MHz)

Frequency Band (MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350	**23.70**	**234.622**
5470~5725	**23.87**	**243.68**

802.11ax (80MHz)

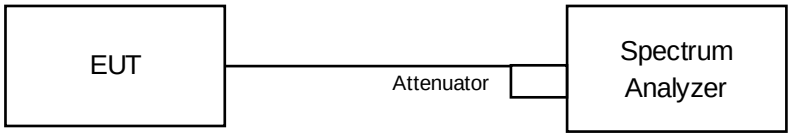
Frequency Band (MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5250~5350	**18.15**	**65.375**
5470~5725	**23.65**	**231.856**

802.11ax (160MHz)

Frequency Band (MHz)	MAX. Power	
	Output Power(dBm)	Output Power(mW)
5470~5725	**16.75**	**47.278**

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 SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.4.4 Test Result

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	16.92	16.92	16.92	16.92
40	5200	17.64	17.52	17.64	17.52
48	5240	17.76	17.76	17.76	17.76
52	5260	17.16	17.16	17.16	17.16
60	5300	17.16	17.16	17.28	17.16
64	5320	16.92	16.92	16.92	16.92
100	5500	16.92	16.92	16.92	16.92
116	5580	17.16	17.16	17.16	17.16
140	5700	16.92	16.92	16.92	16.92
144	5720 For U-NII-2C	13.52	13.52	13.52	13.52
144	5720 For U-NII-3	3.4	3.4	3.4	3.4
149	5745	20.26	18.35	20.6	20.52
157	5785	19.5	19	20.1	18.6
165	5825	18.1	18	19.3	18

802.11ax (20MHz)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
36	5180	18.96	18.96	19.08	19.32
40	5200	19.32	19.32	19.2	19.2
48	5240	19.68	19.68	19.08	19.08
52	5260	19.44	19.44	18.96	18.96
60	5300	19.32	19.32	19.2	19.2
64	5320	18.96	18.96	19.32	19.32
100	5500	19.2	19.08	19.2	19.32
116	5580	19.2	19.2	19.2	19.2
140	5700	19.08	19.08	19.08	19.08
144	5720 For U-NII-2C	14.72	14.72	14.6	14.6
144	5720 For U-NII-3	4.48	4.48	4.6	4.6
149	5745	20.35	19.39	25.31	19.66
157	5785	19.4	19.2	25.3	19.2
165	5825	19.4	20.1	22.7	20.4

802.11ax (40MHz)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
38	5190	38.4	38.4	38.2	38.2
46	5230	38.2	38.2	38.2	38.2
54	5270	38.4	38.4	38.4	38.4
62	5310	38.2	38.4	38.2	38.2
102	5510	38	38	38.2	38.2
110	5550	38.2	38.2	38.2	38.2
134	5670	38.2	38.2	38	38
142	5710 For U-NII-2C	34.44	34.44	34.2	34.2
142	5710 For U-NII-3	4.2	4.2	4.44	4.44
151	5755	45.36	38.55	39.86	38.85
159	5795	39	39	39	38.83

802.11ax (80MHz)

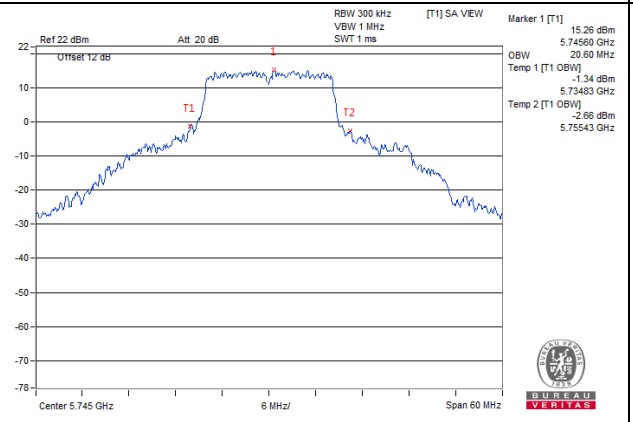
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
42	5210	77.52	77.52	77.52	77.52
58	5290	77.52	77.52	77.52	77.52
106	5530	77.76	77.76	77.28	77.28
122	5610	77.52	77.52	77.52	77.52
138	5690 For U-NII-2C	73.88	73.88	73.88	73.88
138	5690 For U-NII-3	3.4	3.4	3.4	3.4
155	5775	77.71	77.51	77.51	77.31

802.11ax (160MHz)

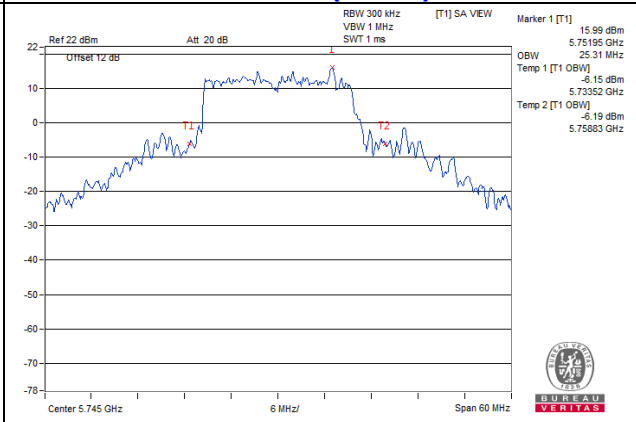
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)			
		Chain 0	Chain 1	Chain 2	Chain 3
50	5250 For 5150~5250MHz	78.72	78.72	78.72	78.72
50	5250 For 5250~5350MHz	77.76	78.72	78.72	78.72
114	5570	156.5	156.5	157.4	156.5

Spectrum Plot of Worst Value

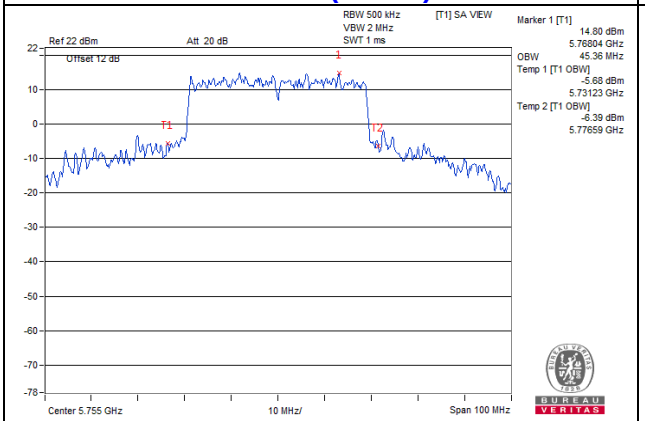
802.11a



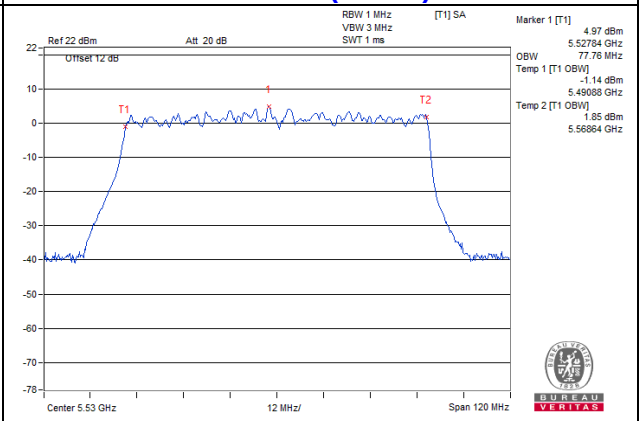
802.11ax (20MHz)



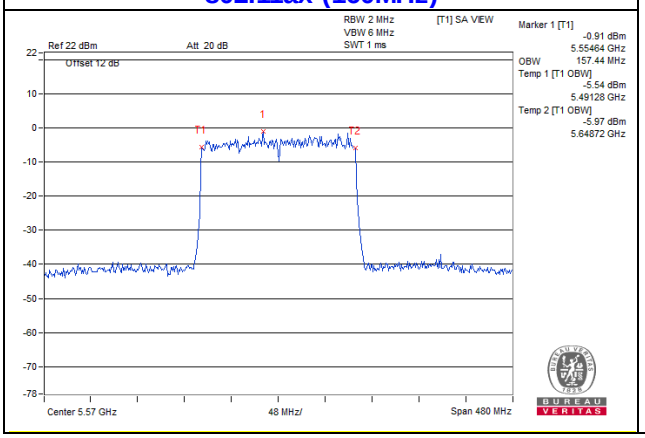
802.11ax (40MHz)

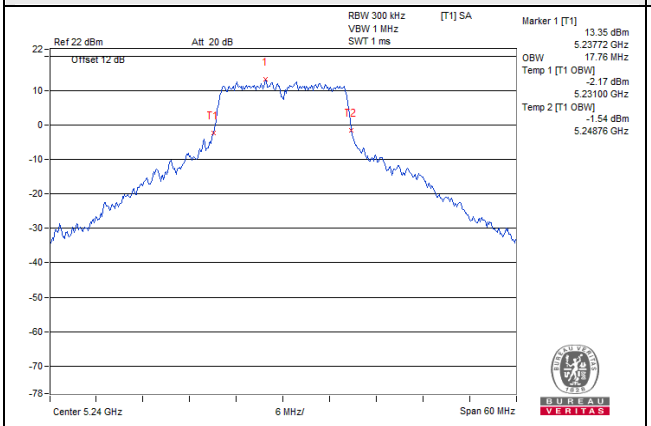
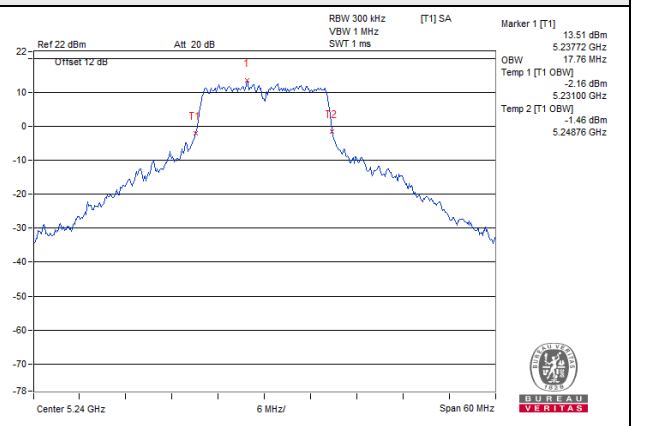
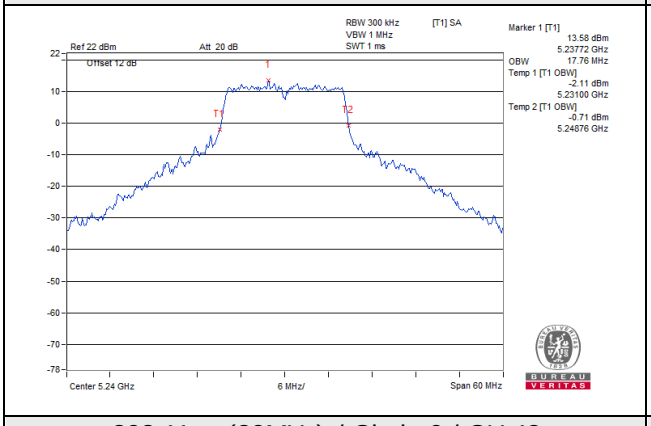
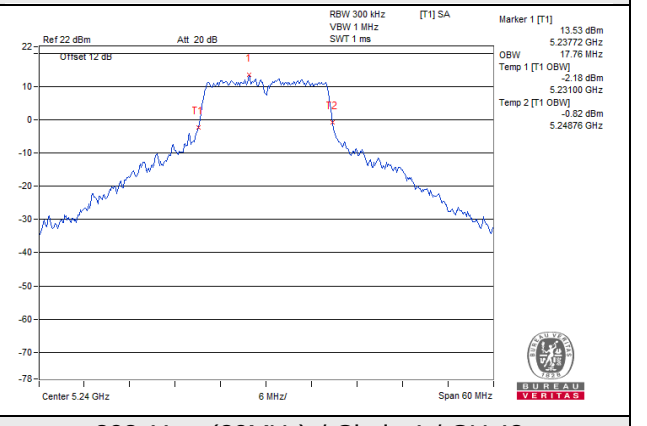
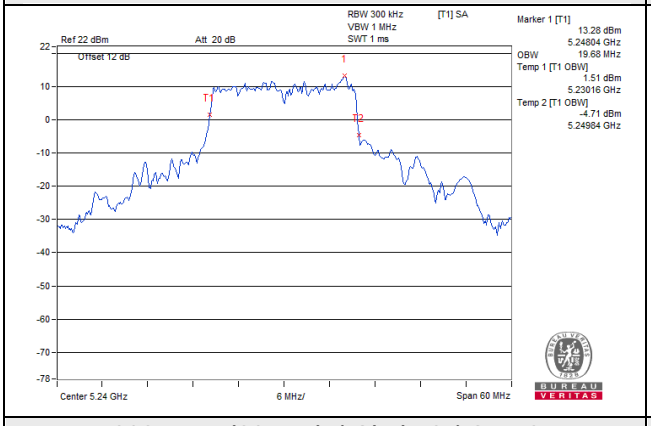
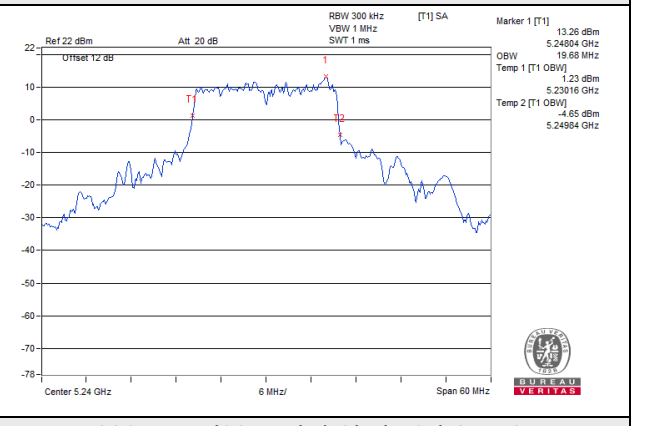


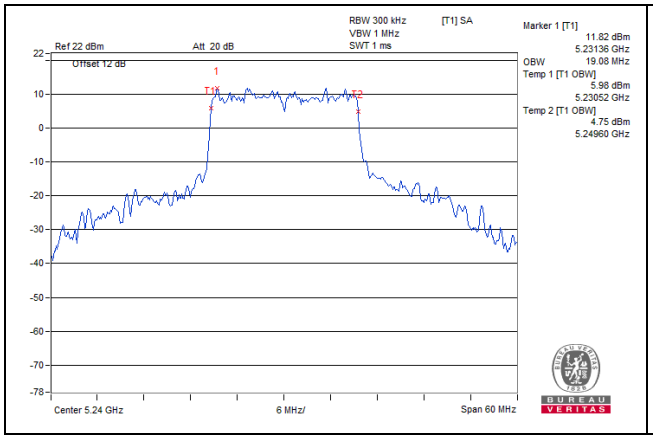
802.11ax (80MHz)

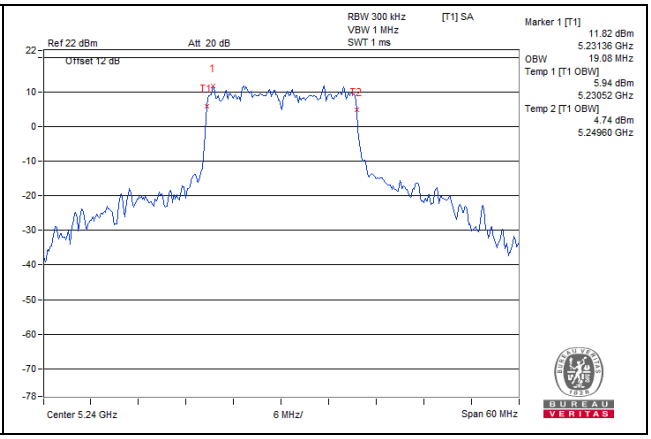


802.11ax (160MHz)



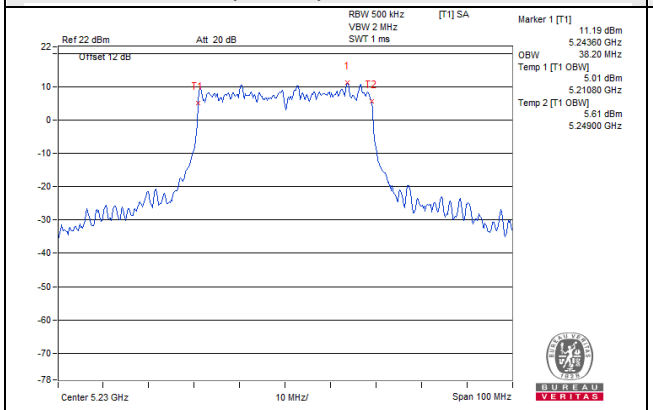
Spectrum Plot for near By DFS Band	
802.11a / Chain 0 / CH 48	802.11a / Chain 1 / CH 48
	
802.11a / Chain 2 / CH 48	802.11a / Chain 3 / CH 48
	
802.11ax (20MHz) / Chain 0 / CH 48	802.11ax (20MHz) / Chain 1 / CH 48
	
802.11ax (20MHz) / Chain 2 / CH 48	802.11ax (20MHz) / Chain 3 / CH 48



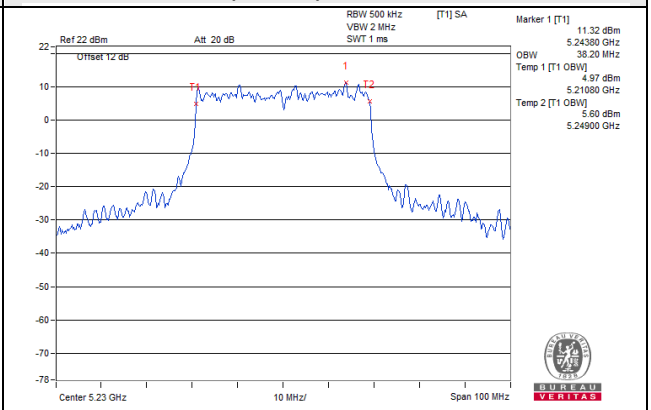


Spectrum Plot for near By DFS Band

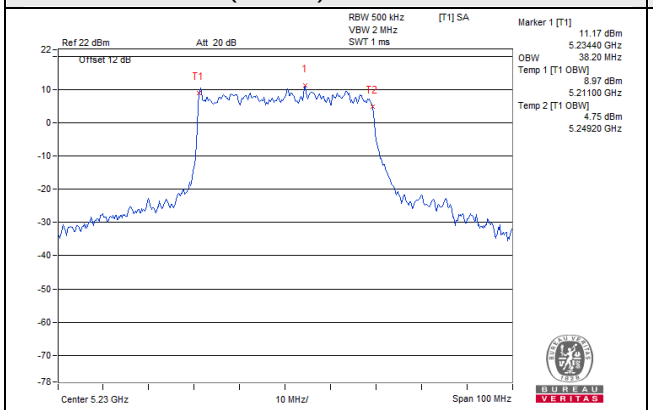
802.11ax (40MHz) / Chain 0 / CH 46



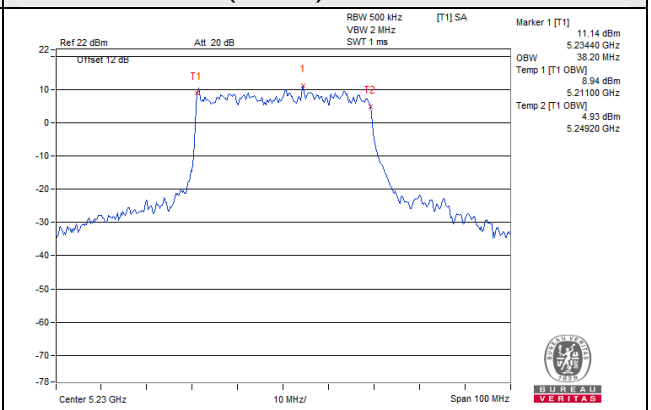
802.11ax (40MHz) / Chain 1 / CH 46



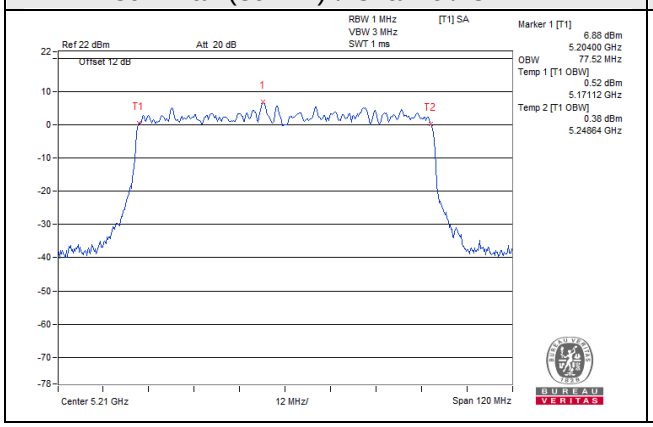
802.11ax (40MHz) / Chain 2 / CH 46



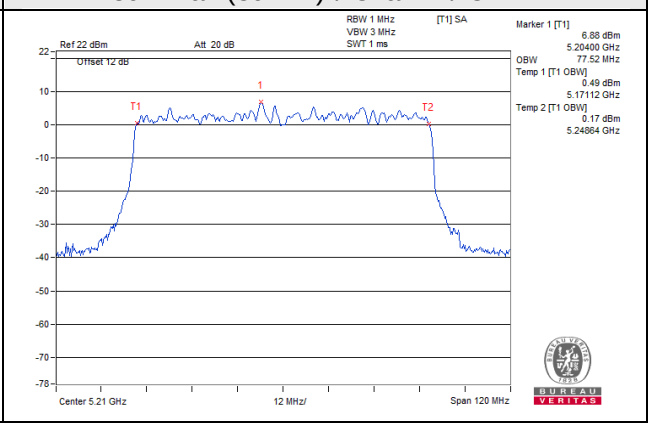
802.11ax (40MHz) / Chain 3 / CH 46

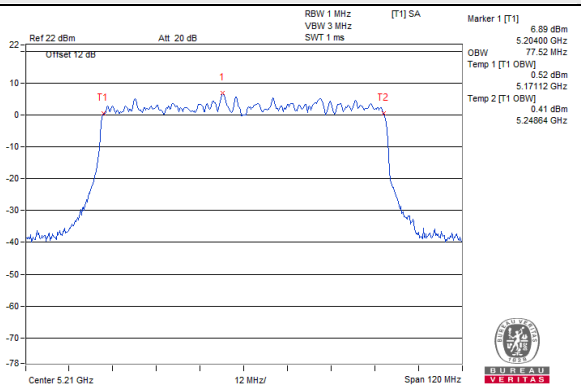
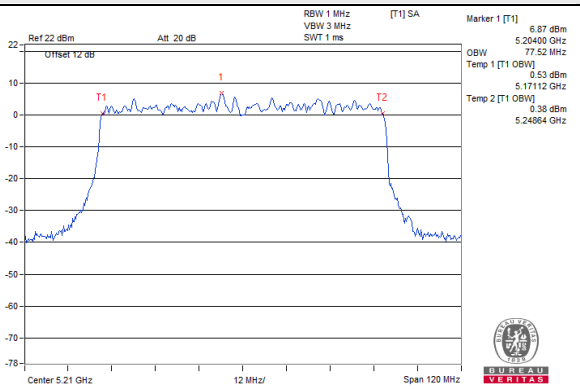


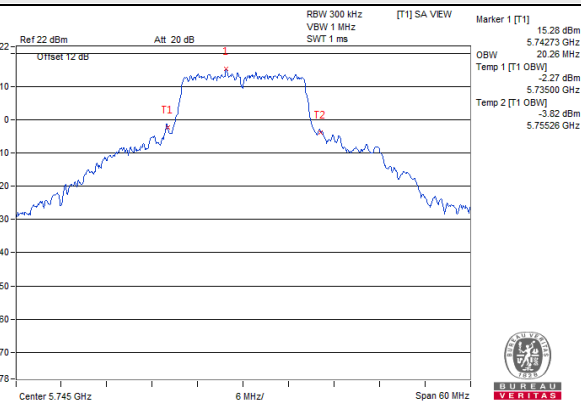
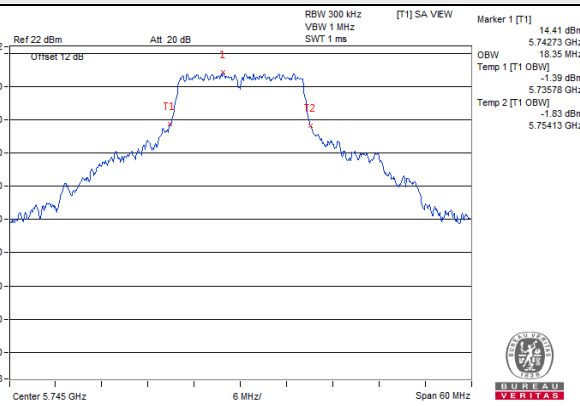
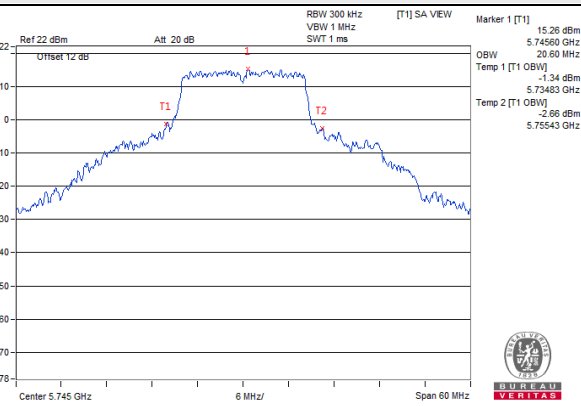
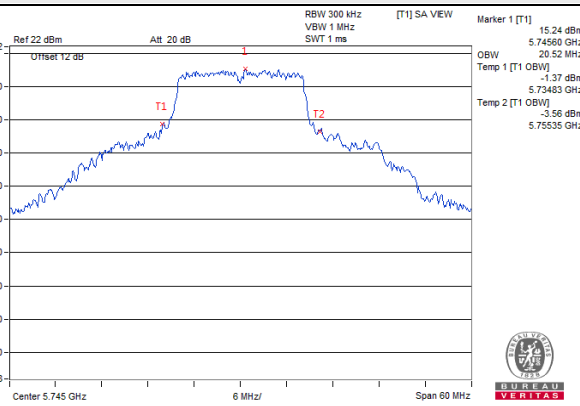
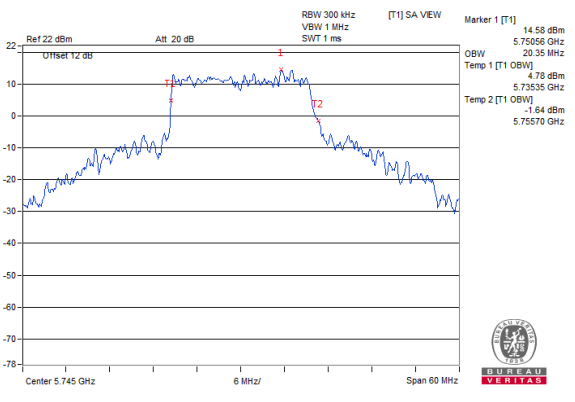
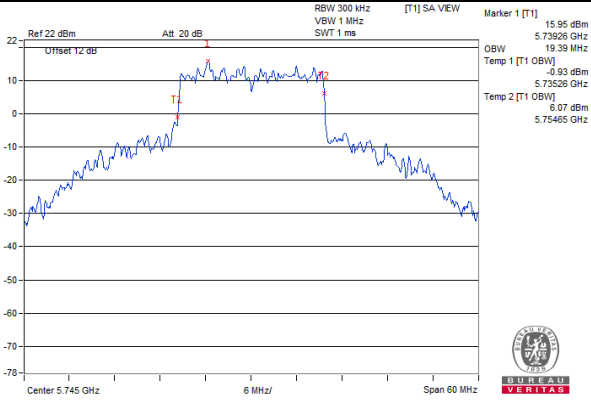
802.11ax (80MHz) / Chain 0 / CH 42

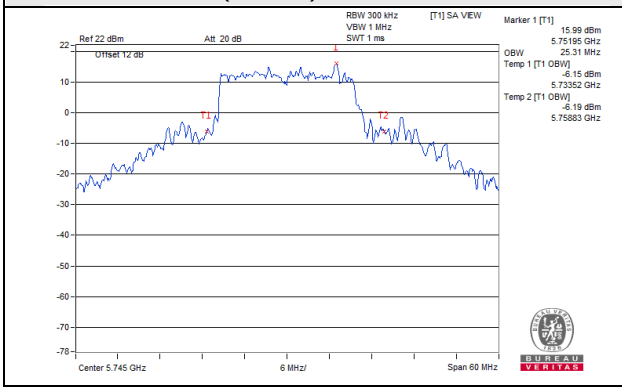
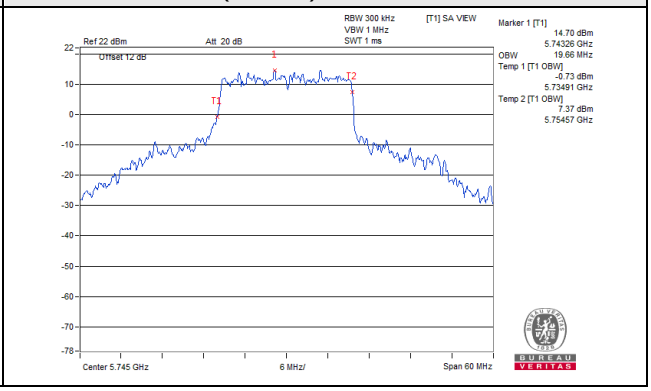


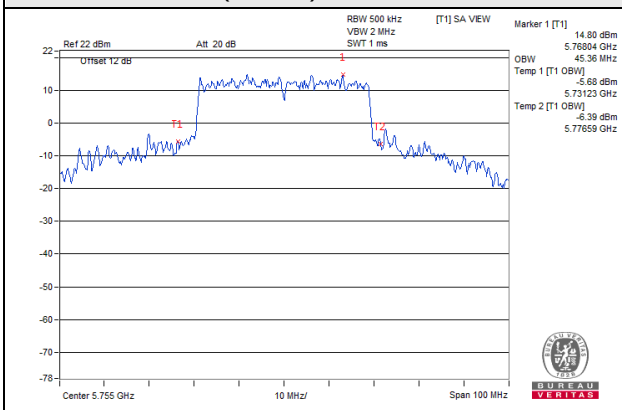
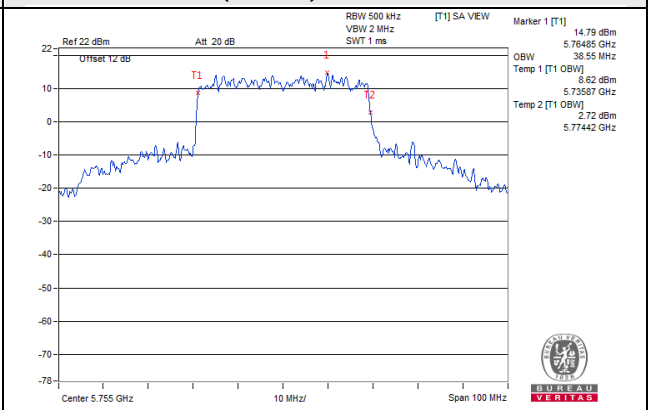
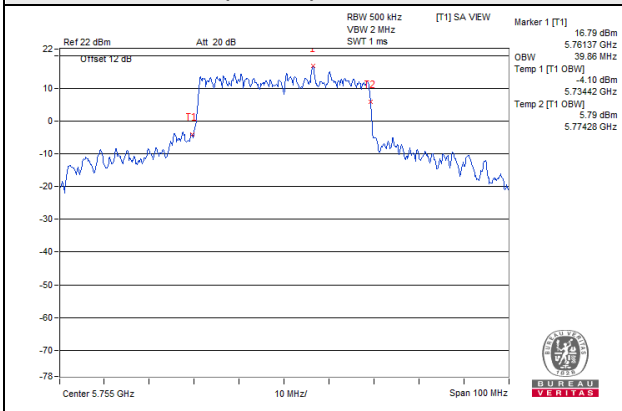
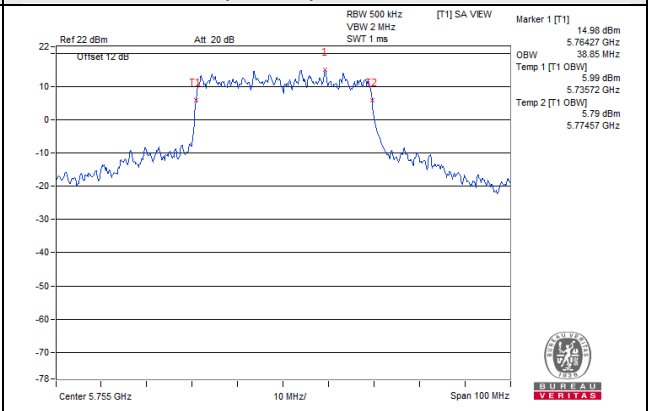
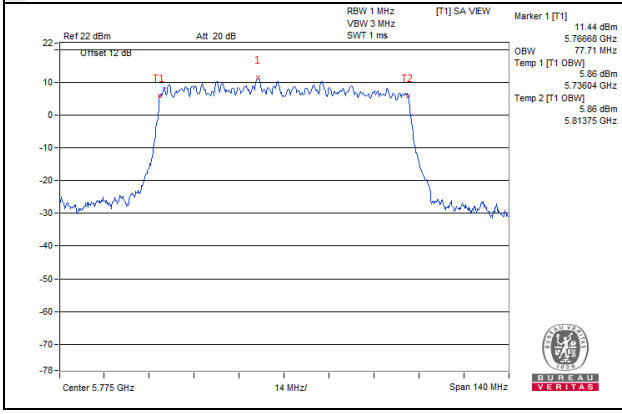
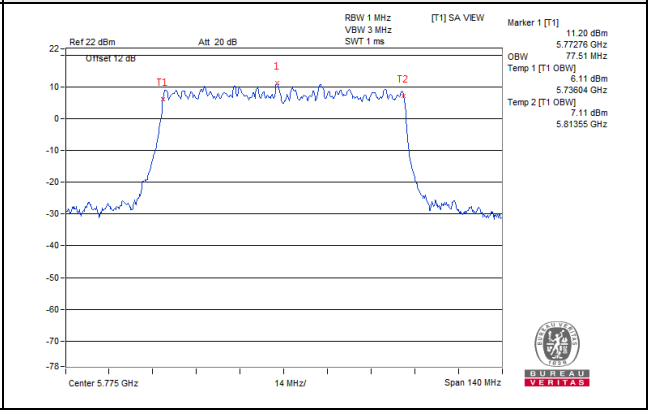
802.11ax (80MHz) / Chain 1 / CH 42

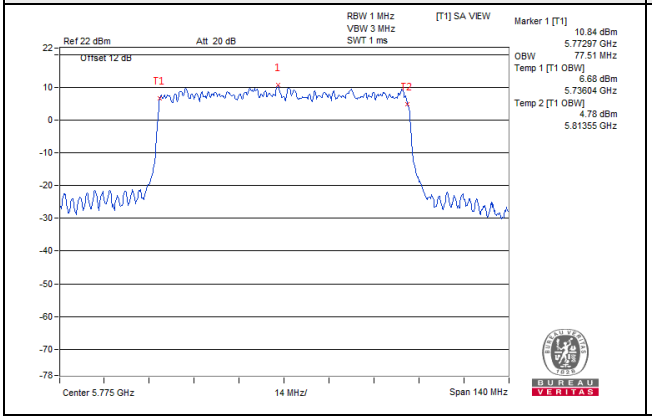
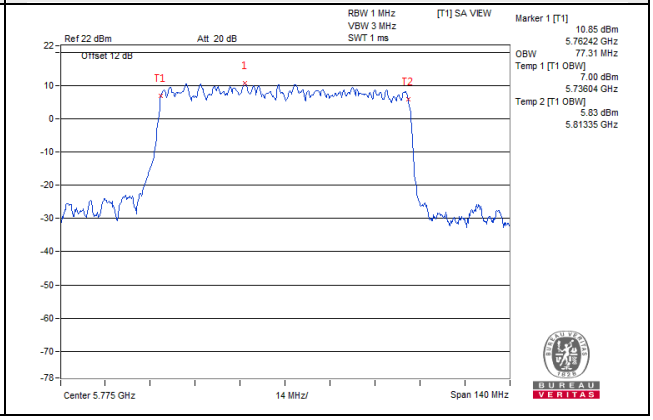


802.11ax (80MHz) / Chain 2 / CH 42	802.11ax (80MHz) / Chain 3 / CH 42
	

Spectrum Plot for near By DFS Band	
802.11a / Chain 0 / CH 149	802.11a / Chain 1 / CH 149
	
802.11a / Chain 2 / CH 149	802.11a / Chain 3 / CH 149
	
802.11ax (20MHz) / Chain 0 / CH 149	802.11ax (20MHz) / Chain 1 / CH 149
	

802.11ax (20MHz) / Chain 2 / CH 149	802.11ax (20MHz) / Chain 3 / CH 149
	

Spectrum Plot for near By DFS Band	
802.11ax (40MHz) / Chain 0 / CH 151	802.11ax (40MHz) / Chain 1 / CH 151
	
802.11ax (40MHz) / Chain 2 / CH 151	802.11ax (40MHz) / Chain 3 / CH 151
	
802.11ax (80MHz) / Chain 0 / CH 155	802.11ax (80MHz) / Chain 1 / CH 155
	

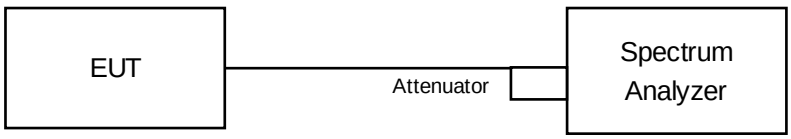
802.11ax (80MHz) / Chain 2 / CH 155	802.11ax (80MHz) / Chain 3 / CH 155
	

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, U-NII-2C Band:

Using method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 1MHz, Set VBW ≥ 3 MHz, Detector = RMS
c. Set Channel power measure = 1MHz
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.

For U-NII-3 band:

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.
b. Set RBW = 500 kHz, Set VBW ≥ 1 MHz, Detector = RMS
c. Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
d. Sweep time = auto, trigger set to “free run”.
e. Trace average at least 100 traces in power averaging mode.

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, U-NII-2C:

802.11a

Chan.	Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	4.92	4.76	4.87	4.84	10.87	14.48	Pass
40	5200	8.02	8.06	8.02	7.98	14.04	14.48	Pass
48	5240	8.42	8.42	8.47	8.44	14.46	14.48	Pass
52	5260	1.84	1.81	1.83	1.99	7.89	8.05	Pass
60	5300	1.78	1.78	1.98	2.01	7.91	8.05	Pass
64	5320	1.84	1.84	2.05	1.80	7.90	8.05	Pass
100	5500	1.77	1.75	1.81	1.78	7.80	8.05	Pass
116	5580	1.94	1.96	1.98	1.97	7.98	8.05	Pass
140	5700	1.60	1.57	1.60	1.58	7.61	8.05	Pass
144	5720 For U-NII-2C	1.79	1.78	1.85	1.81	7.83	8.05	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180~5240MHz Directional gain =8.52dBi > 6dBi, so the power density limit shall be reduced to 17-(8.52-6) = 14.48dBm.
   5260~5320MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm.
   5500~5720MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm

802.11ax (20MHz)

Chan.	Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
36	5180	4.33	4.28	4.30	4.29	10.32	14.48	Pass
40	5200	7.88	7.91	8.08	8.05	14.00	14.48	Pass
48	5240	8.12	8.10	7.98	7.96	14.06	14.48	Pass
52	5260	1.82	1.81	2.13	2.14	8.00	8.05	Pass
60	5300	1.56	1.57	1.52	1.53	7.57	8.05	Pass
64	5320	1.61	1.58	1.63	1.62	7.63	8.05	Pass
100	5500	2.06	1.46	1.55	1.70	7.72	8.05	Pass
116	5580	1.73	1.75	1.74	1.72	7.76	8.05	Pass
140	5700	1.64	1.62	1.55	1.54	7.61	8.05	Pass
144	5720 For U-NII-2C	2.03	2.01	2.05	2.00	8.04	8.05	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180~5240MHz Directional gain =8.52dBi > 6dBi, so the power density limit shall be reduced to 17-(8.52-6) = 14.48dBm.
   5260~5320MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm.
   5500~5720MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm

802.11ax (40MHz)

Chan.	Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
38	5190	0.47	0.46	0.29	0.26	6.39	14.48	Pass
46	5230	4.11	4.12	3.67	3.64	9.91	14.48	Pass
54	5270	0.85	0.82	0.66	0.64	6.76	8.05	Pass
62	5310	-1.75	-2.35	-1.85	-1.86	4.07	8.05	Pass
102	5510	-3.07	-3.10	-3.31	-3.33	2.82	8.05	Pass
110	5550	-1.50	-1.48	-1.21	-1.25	4.66	8.05	Pass
134	5670	1.34	1.32	1.10	1.04	7.22	8.05	Pass
142	5710 For U-NII-2C	0.93	0.89	1.13	1.08	7.03	8.05	Pass

Note:
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180~5240MHz Directional gain =8.52dBi > 6dBi, so the power density limit shall be reduced to 17-(8.52-6) = 14.48dBm.
   5260~5320MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm.
   5500~5720MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm

802.11ax (80MHz)

Chan.	Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
42	5210	-4.99	-4.99	-5.00	-5.00	1.03	14.48	Pass
58	5290	-6.16	-6.17	-6.35	-6.37	-0.24	8.05	Pass
106	5530	-5.59	-5.61	-6.00	-6.02	0.22	8.05	Pass
122	5610	-2.46	-2.49	-2.34	-2.37	3.61	8.05	Pass
138	5690 For U-NII-2C	-3.27	-2.23	-2.14	-2.15	3.60	8.05	Pass

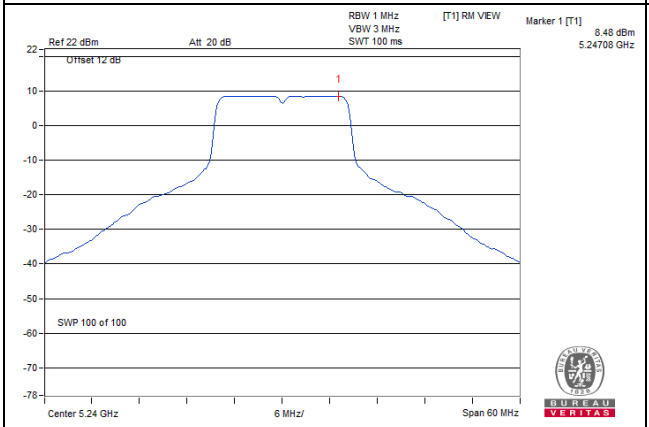
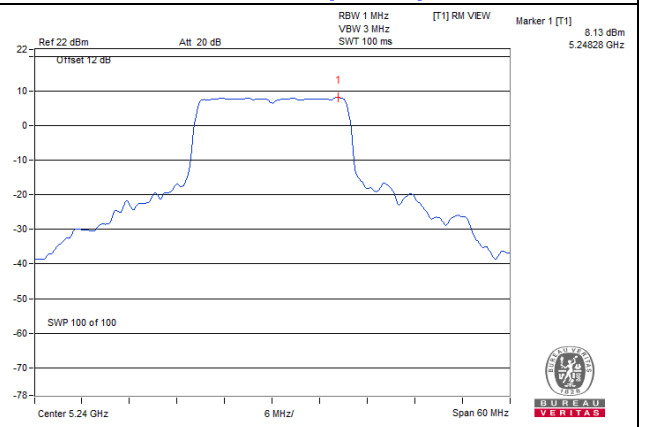
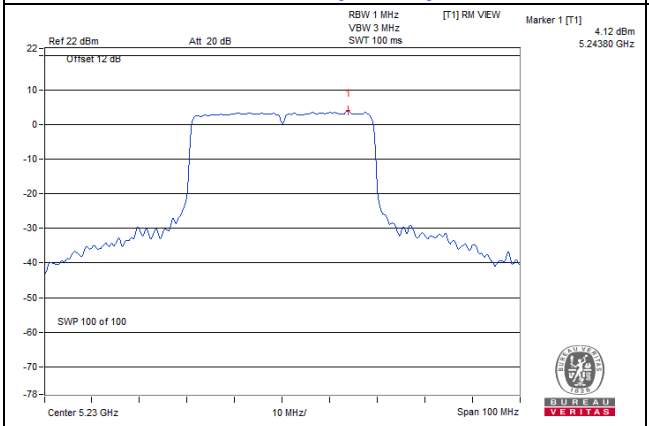
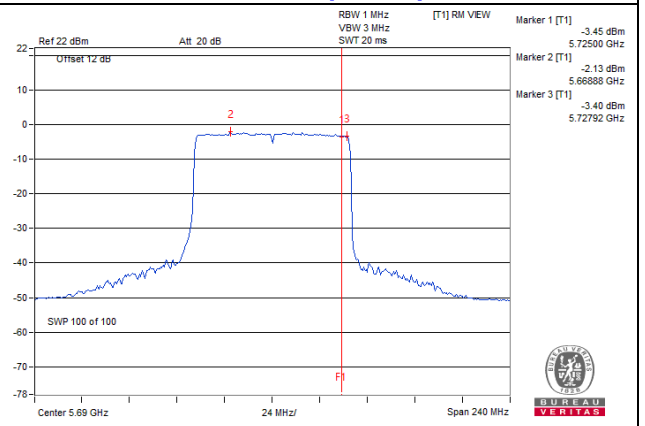
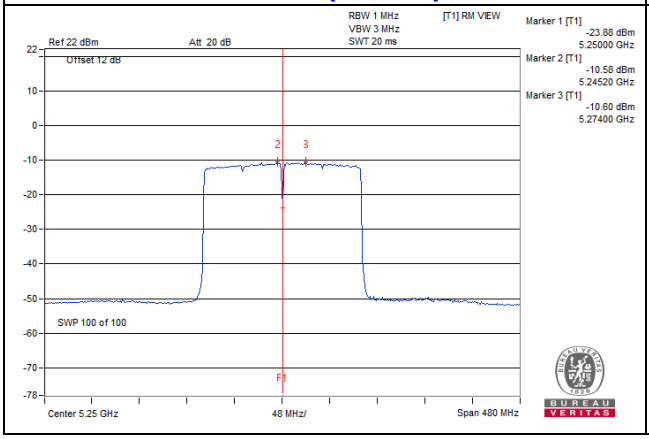
Note:
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180~5240MHz Directional gain =8.52dBi > 6dBi, so the power density limit shall be reduced to 17-(8.52-6) = 14.48dBm.
   5260~5320MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm.
   5500~5720MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm

802.11ax (160MHz)

Chan.	Freq. (MHz)	PSD (dBm/MHz)				Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
50	5250 For 5150~5250MHz	-10.87	-10.76	-10.59	-10.78	-4.73	14.48	Pass
50	5250 For 5250~5350MHz	-10.62	-10.75	-10.61	-10.82	-4.68	8.05	Pass
114	5570	-11.52	-11.69	-11.50	-11.41	-5.51	8.05	Pass

Note:

1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5180~5240MHz Directional gain =8.52dBi > 6dBi, so the power density limit shall be reduced to 17-(8.52-6) = 14.48dBm.
   5260~5320MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm.
   5500~5720MHz Directional gain = 8.95dBi > 6dBi, so the power density limit shall be reduced to 11-(8.95-6) = 8.05dBm

Spectrum Plot of Worst Value	
802.11a	**802.11ax (20MHz)**
	
802.11ax (40MHz)	**802.11ax (80MHz)**
	
802.11ax (160MHz)	
	

For U-NII-3 band:

802.11a

Chan.	Freq. (MHz)	PSD (dBm/500kHz)				Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
144	5720 For U-NII-3	-6.49	-6.49	-6.42	-6.49	-0.45	27.18	Pass
149	5745	1.79	1.74	2.76	2.79	8.32	27.18	Pass
157	5785	1.56	1.91	2.42	2.09	8.03	27.18	Pass
165	5825	1.19	1.50	2.30	1.98	7.78	27.18	Pass

Note:
1. Method E) 2) b) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]=8.82dBi > 6dBi, so the power density shall be reduced to 30-(8.82-6) = 27.18dBm.

802.11ax (20MHz)

Chan.	Freq. (MHz)	PSD (dBm/500kHz)				Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
144	5720 For U-NII-3	-5.73	-5.76	-5.38	-5.41	0.45	27.18	Pass
149	5745	3.29	3.15	3.40	3.37	9.32	27.18	Pass
157	5785	2.36	2.62	3.96	3.44	9.16	27.18	Pass
165	5825	2.85	2.97	3.76	2.81	9.14	27.18	Pass

Note:
1. Method E) 2) b) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]=8.82dBi > 6dBi, so the power density shall be reduced to 30-(8.82-6) = 27.18dBm.

802.11ax (40MHz)

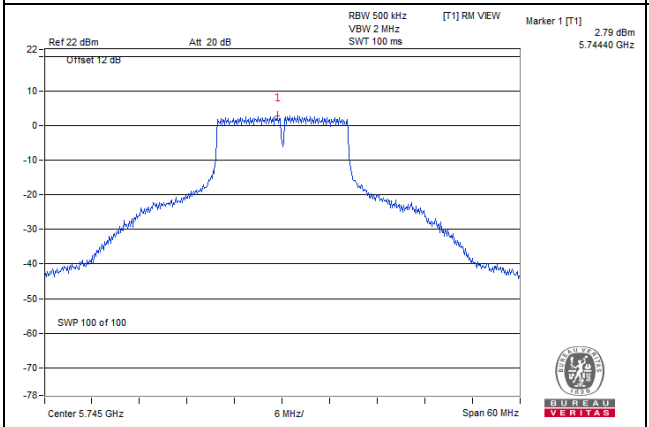
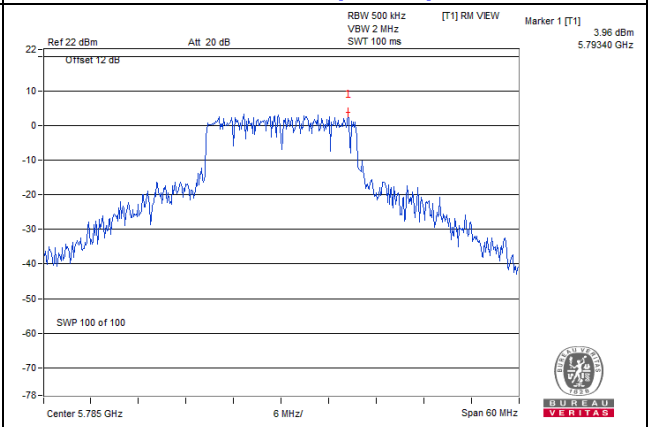
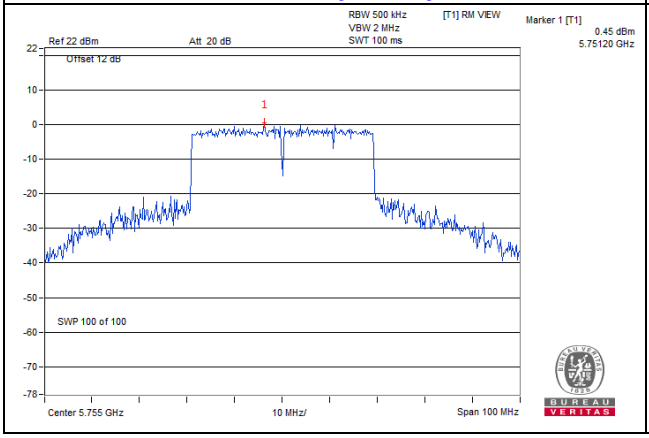
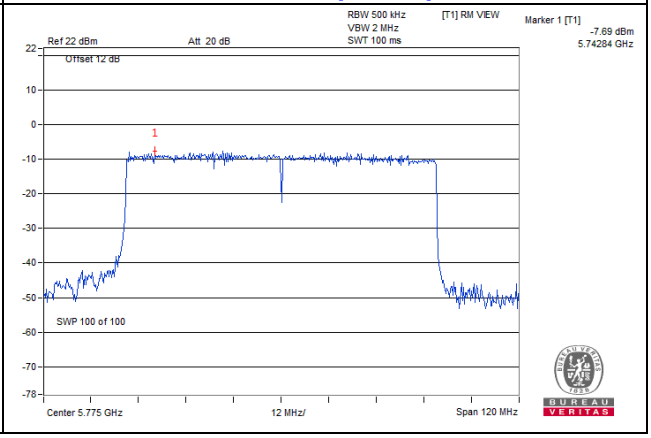
Chan.	Freq. (MHz)	PSD (dBm/500kHz)				Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
142	5710 For U-NII-3	-7.71	-7.75	-7.55	-7.59	-1.63	27.18	Pass
151	5755	0.17	0.45	0.31	-0.14	6.22	27.18	Pass
159	5795	0.03	-0.75	-0.59	-0.33	5.62	27.18	Pass

Note:
1. Method E) 2) b) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]=8.82dBi > 6dBi, so the power density shall be reduced to 30-(8.82-6) = 27.18dBm.

802.11ax (80MHz)

Chan.	Freq. (MHz)	PSD (dBm/500kHz)				Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3			
138	5690 For U-NII-3	-12.49	-12.23	-12.41	-12.52	-6.39	27.18	Pass
155	5775	-8.25	-7.95	-8.23	-7.69	-2.00	27.18	Pass

Note:
1. Method E) 2) b) of power density measurement of KDB 662911 is using for calculating total power density.
2. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/4$]=8.82dBi > 6dBi, so the power density shall be reduced to 30-(8.82-6) = 27.18dBm.

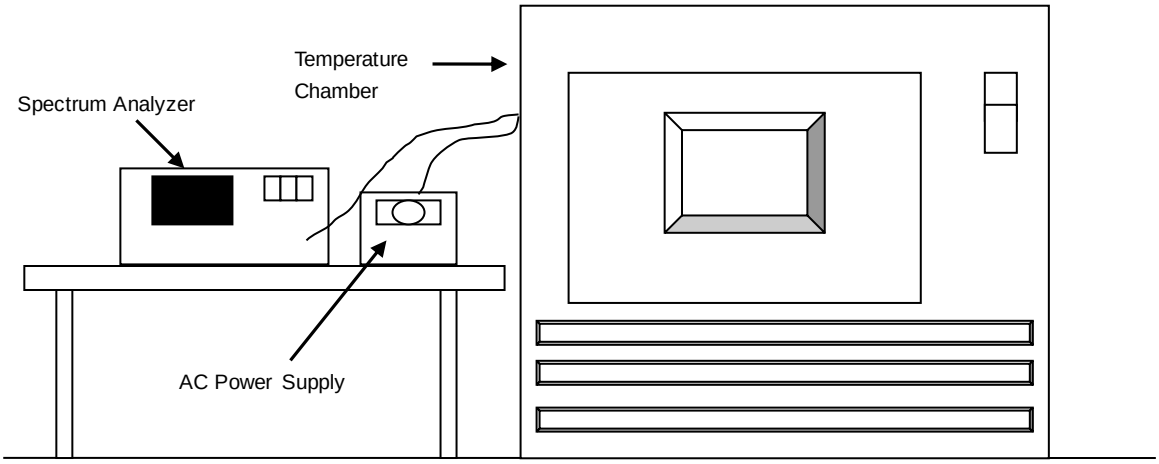
Spectrum Plot of Worst Value	
802.11a	**802.11ax (20MHz)**
	
802.11ax (40MHz)	**802.11ax (80MHz)**
	

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
ROHDE & SCHWARZ Spectrum Analyzer	FSV 40	101042	Sep. 8, 2020	Sep. 7, 2021
Temperature & Humidity Chamber	MHU-225AU	920409	May 22, 2020	May 21, 2021
DIGITAL POWER METER IDRC	CP-240	240515	Sep. 10, 2020	Sep. 9, 2021
AC Power Source ExTech	CFW-105	E000603	NA	NA

Note: 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

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

4.6.5 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

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5179.9923	Pass	5179.9918	Pass	5179.9924	Pass	5179.9927	Pass
40	120	5179.9791	Pass	5179.9803	Pass	5179.983	Pass	5179.9825	Pass
30	120	5180.0206	Pass	5180.0213	Pass	5180.0239	Pass	5180.0254	Pass
20	120	5179.9987	Pass	5179.9966	Pass	5179.9984	Pass	5179.9947	Pass
10	120	5179.9886	Pass	5179.9897	Pass	5179.9878	Pass	5179.9887	Pass
0	120	5180.0212	Pass	5180.0246	Pass	5180.0221	Pass	5180.0232	Pass
-10	120	5180.0195	Pass	5180.0224	Pass	5180.0195	Pass	5180.0181	Pass
-20	120	5179.9921	Pass	5179.9955	Pass	5179.9928	Pass	5179.9928	Pass
-30	120	5180.0152	Pass	5180.0147	Pass	5180.0173	Pass	5180.0159	Pass

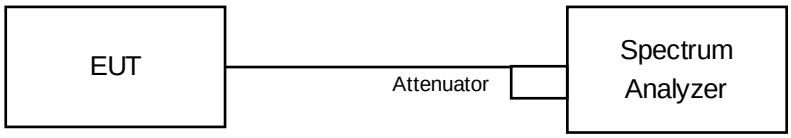
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9989	Pass	5179.9956	Pass	5179.9981	Pass	5179.9952	Pass
	120	5179.9987	Pass	5179.9966	Pass	5179.9984	Pass	5179.9947	Pass
	102	5179.9991	Pass	5179.9976	Pass	5179.9992	Pass	5179.9956	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

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
144	5720 For U-NII-3	3.32	3.32	3.33	3.32	0.5	Pass
149	5745	16.61	16.62	16.58	16.59	0.5	Pass
157	5785	16.61	16.62	16.58	16.62	0.5	Pass
165	5825	16.63	16.62	16.59	16.6	0.5	Pass

802.11ax (20MHz)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
144	5720 For U-NII-3	4.58	4.58	4.61	4.6	0.5	Pass
149	5745	19.16	19.02	19.14	19.15	0.5	Pass
157	5785	19.07	19.15	19.05	19.12	0.5	Pass
165	5825	19.13	19	19.2	19.15	0.5	Pass

802.11ax (40MHz)

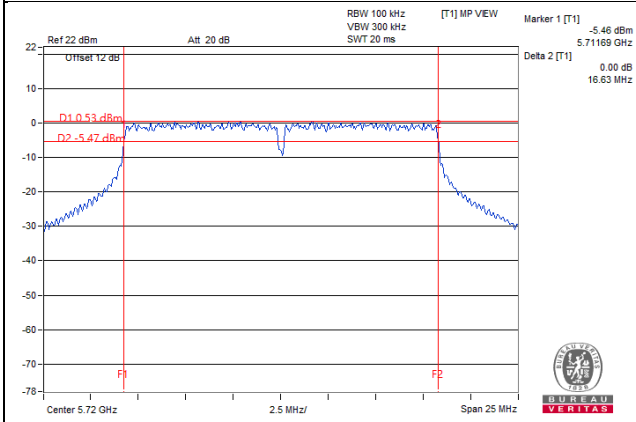
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
142	5710 For U-NII-3	4.13	4.13	4.16	4.16	0.5	Pass
151	5755	38.25	38.24	38.25	38.37	0.5	Pass
159	5795	38.2	38.31	38.35	38.29	0.5	Pass

802.11ax (80MHz)

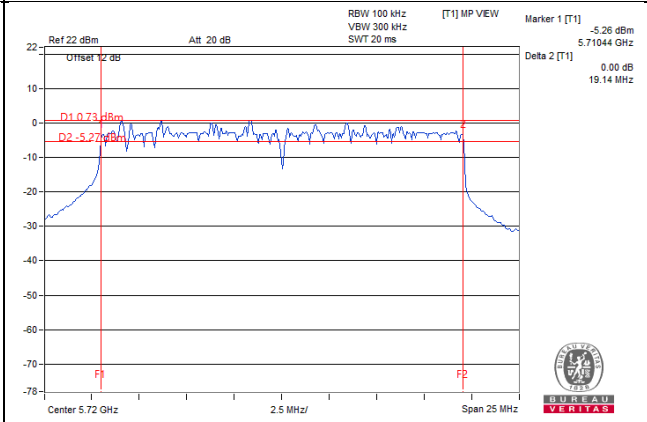
Channel	Frequency (MHz)	6dB Bandwidth (MHz)				Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1	Chain 2	Chain 3		
138	5690 For U-NII-3	4.2	4.23	4.22	4.22	0.5	Pass
155	5775	78.37	78.3	78.32	78.31	0.5	Pass

Spectrum Plot of Worst Value

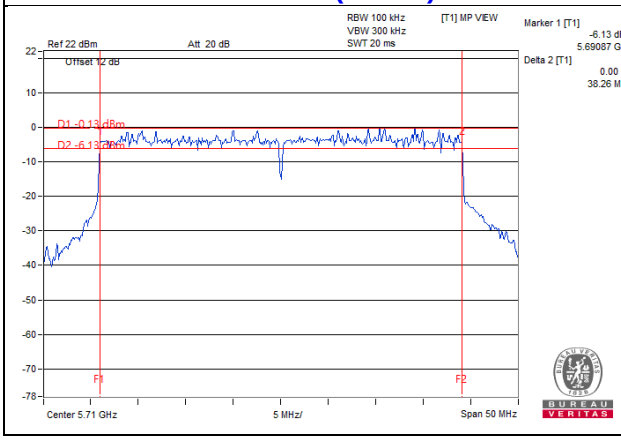
802.11a



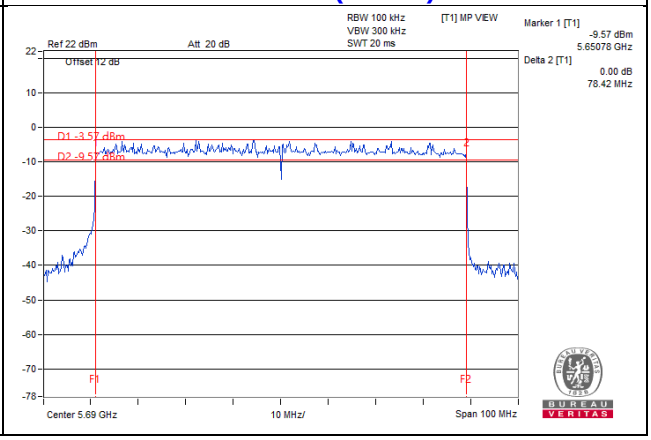
802.11ax (20MHz)

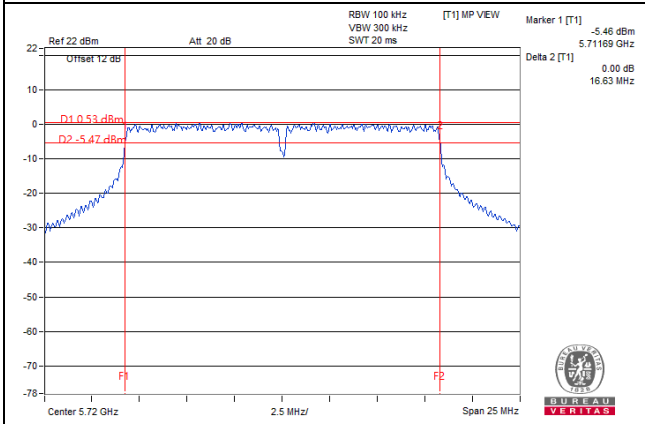
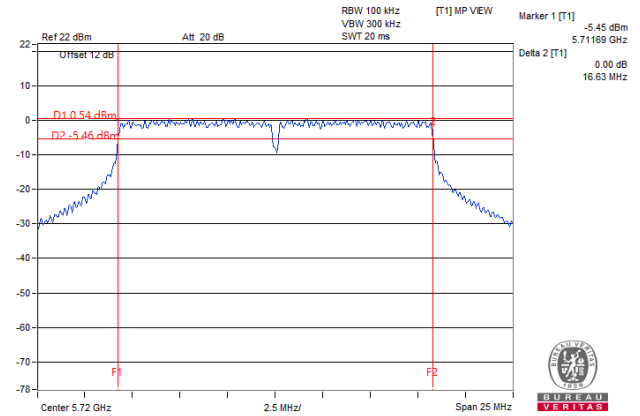
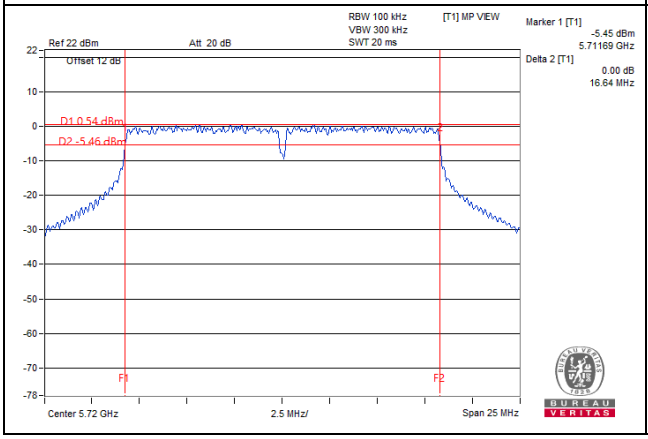
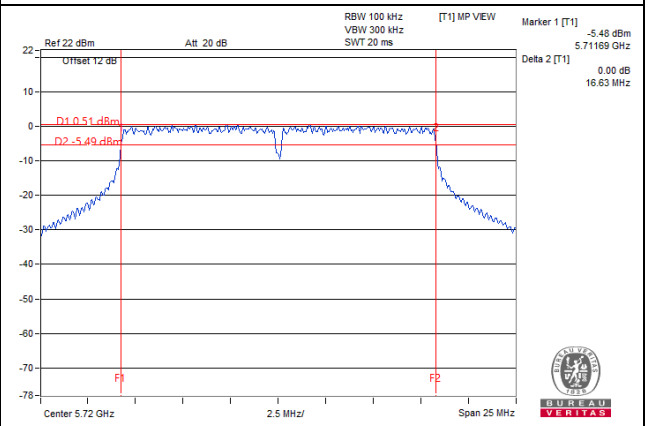


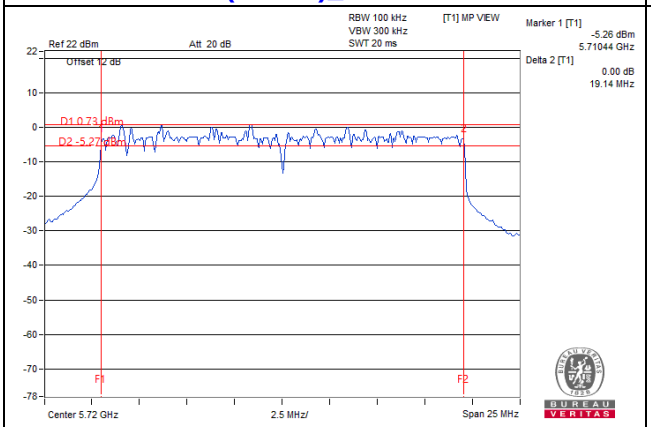
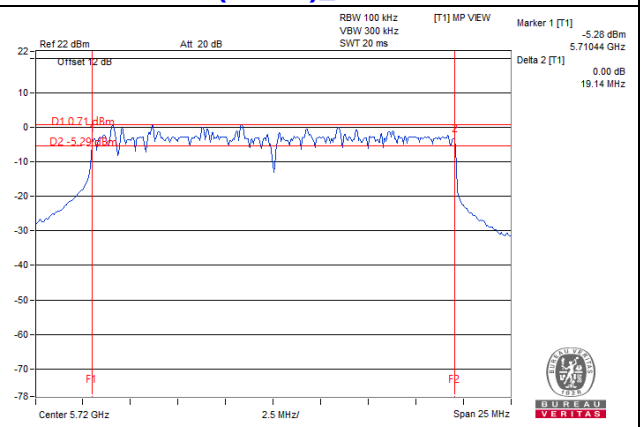
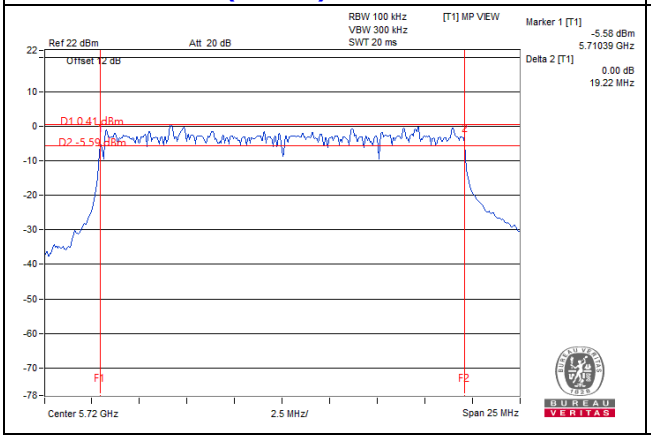
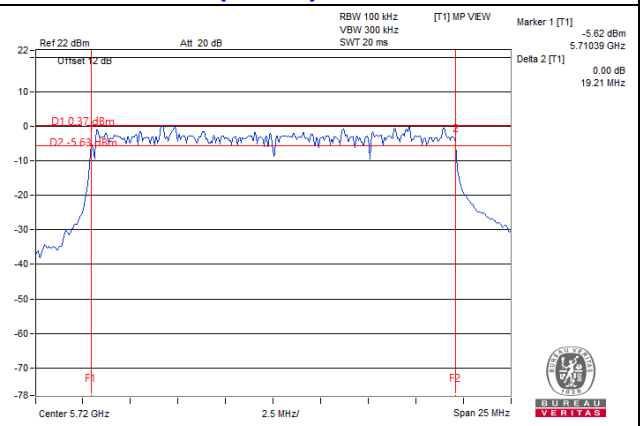
802.11ax (40MHz)



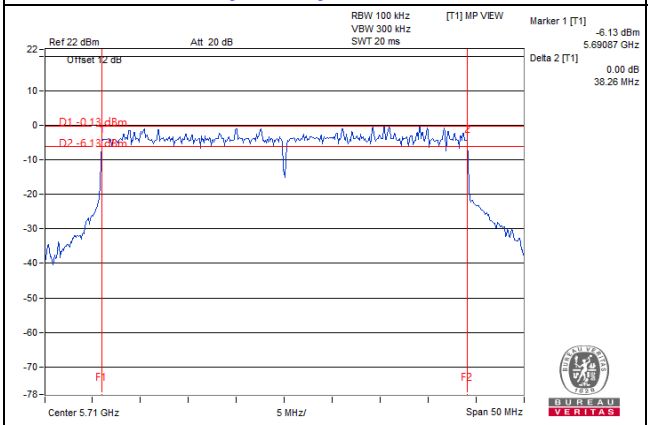
802.11ax (80MHz)



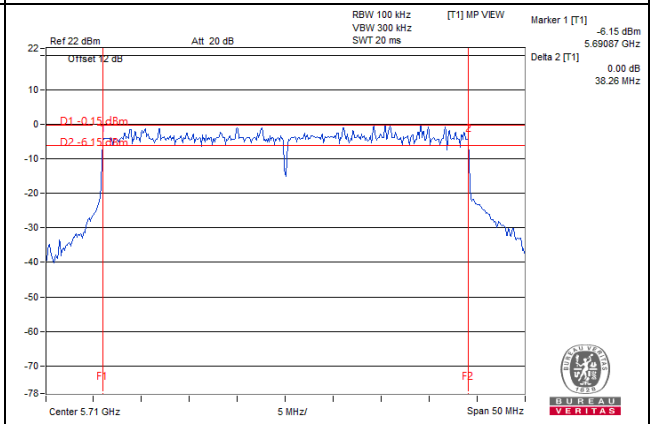
Spectrum Plot of Straddle channel	
802.11a_Chain 0: CH 144	**802.11a_Chain 1: CH 144**
	
802.11a_Chain 2: CH 144	**802.11a_Chain 3: CH 144**
	

Spectrum Plot of Straddle channel	
802.11ax (20MHz)_Chain 0: CH 144	**802.11ax (20MHz)_Chain 1: CH 144**
	
802.11ax (20MHz)_Chain 2: CH 144	**802.11ax (20MHz)_Chain 3: CH 144**
	

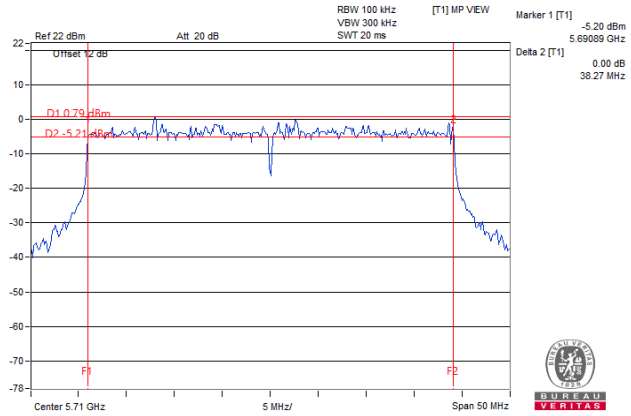
802.11ax (40MHz)_Chain 0: CH 142



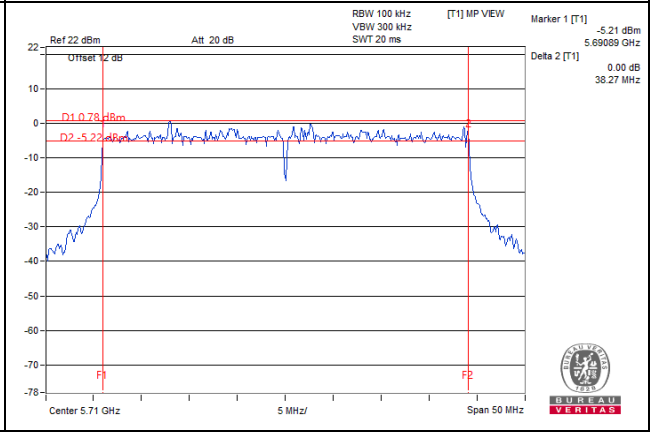
802.11ax (40MHz)_Chain 1: CH 142

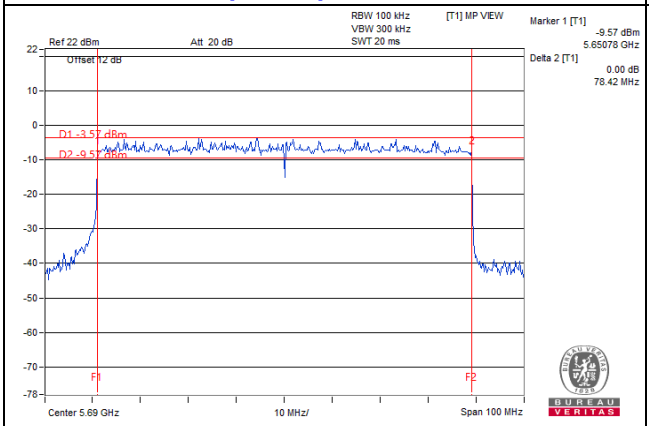
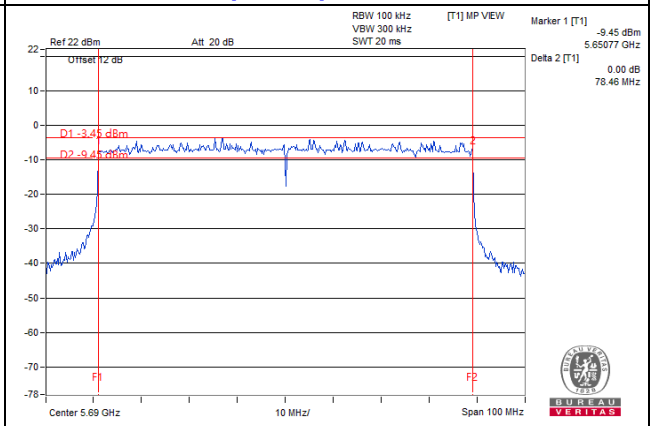
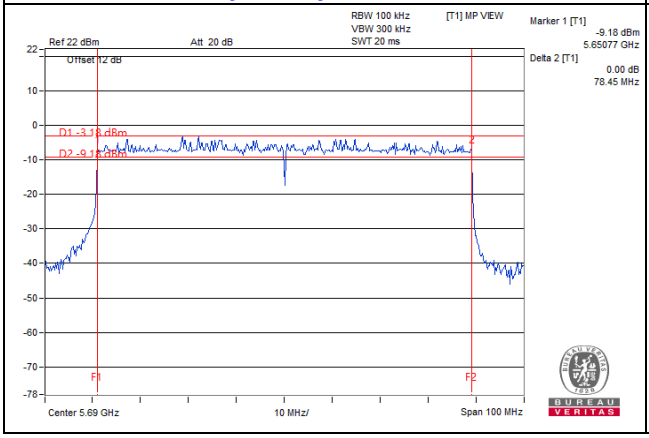
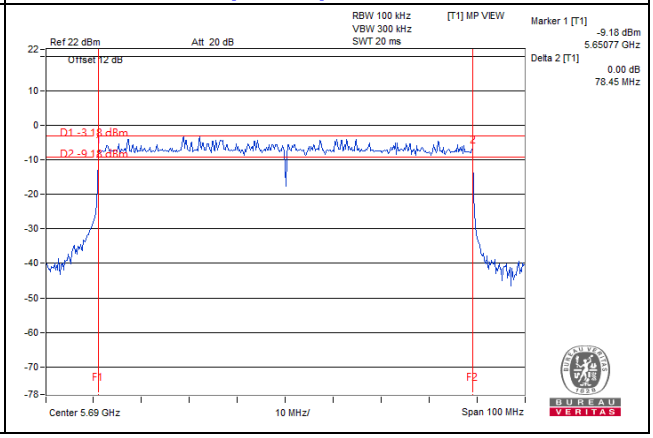


802.11ax (40MHz)_Chain 2: CH 142



802.11ax (40MHz)_Chain 3: CH 142



802.11ax (80MHz)_Chain 0: CH 138	802.11ax (80MHz)_Chain 1: CH 138
	
802.11ax (80MHz)_Chain 2: CH 138	**802.11ax (80MHz)_Chain 3: CH 138**
	

Note:

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

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

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

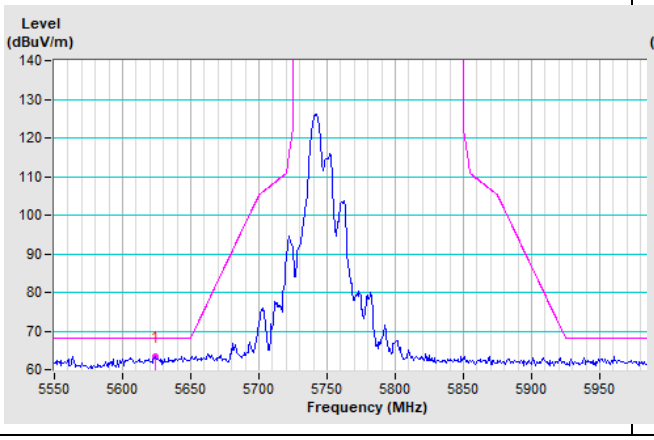
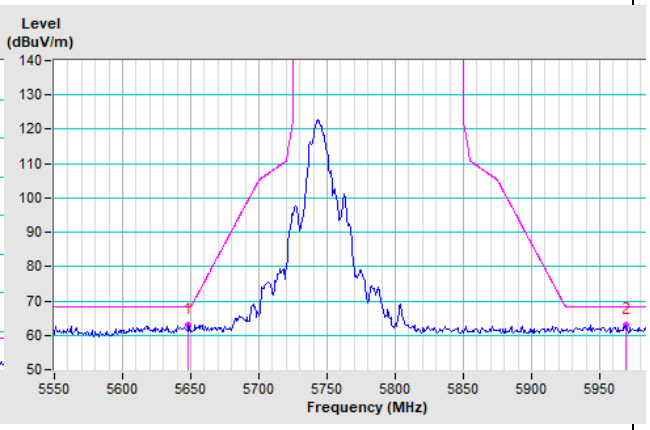
5 Pictures of Test Arrangements

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

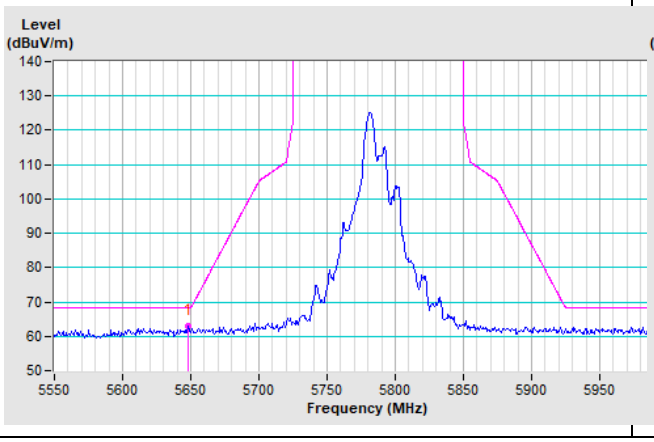
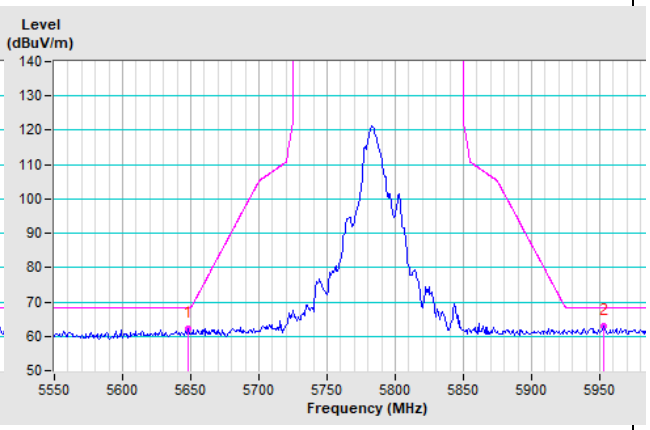
Annex A- Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

802.11a

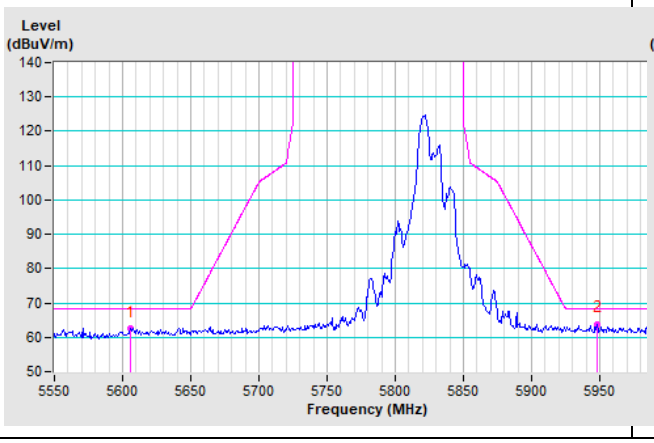
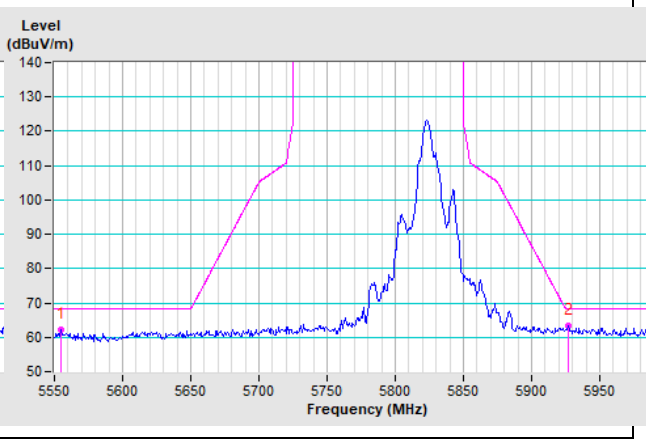
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

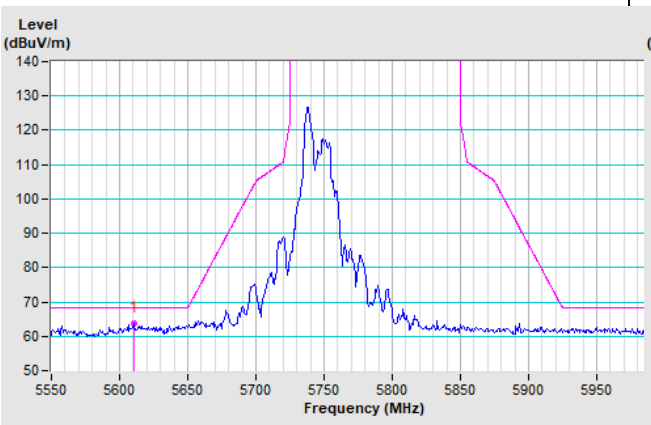
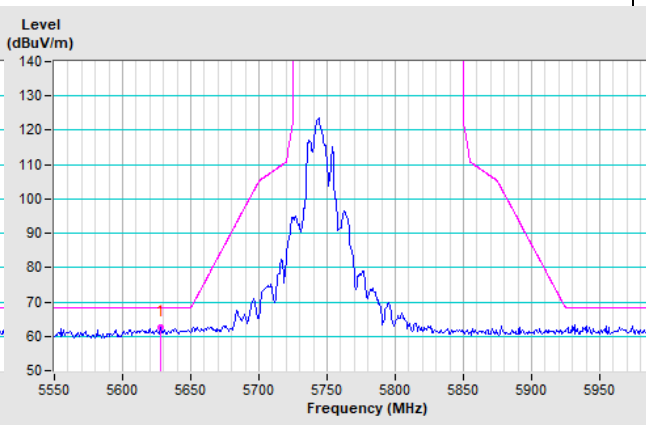
Horizontal	Vertical
	

CH 165 5825 MHz

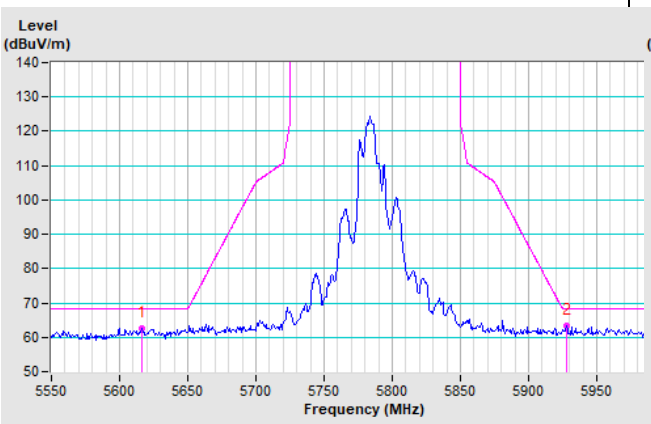
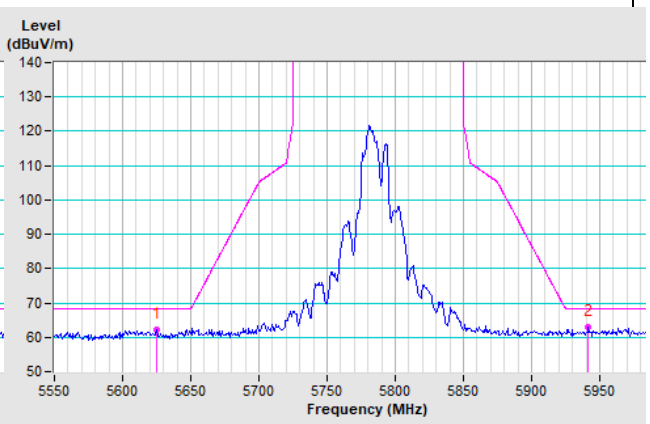
Horizontal	Vertical
	

802.11ax (20MHz)

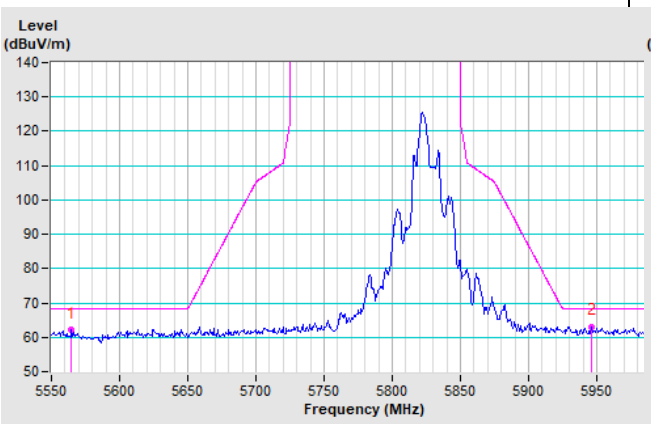
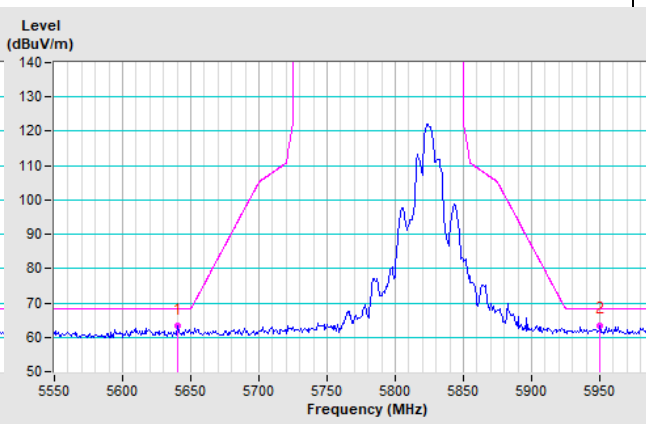
CH 149 5745 MHz

Horizontal	Vertical
	

CH 157 5785 MHz

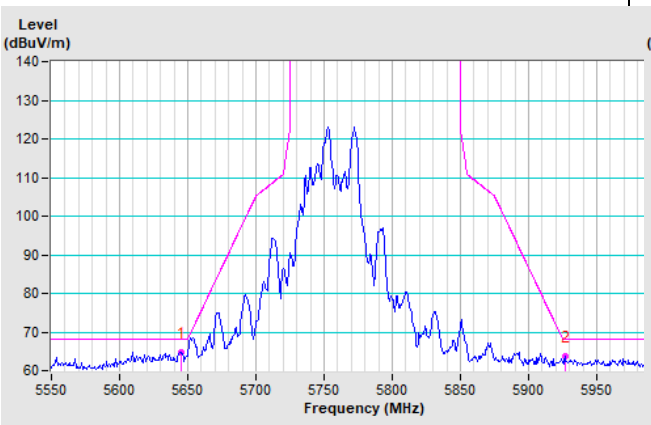
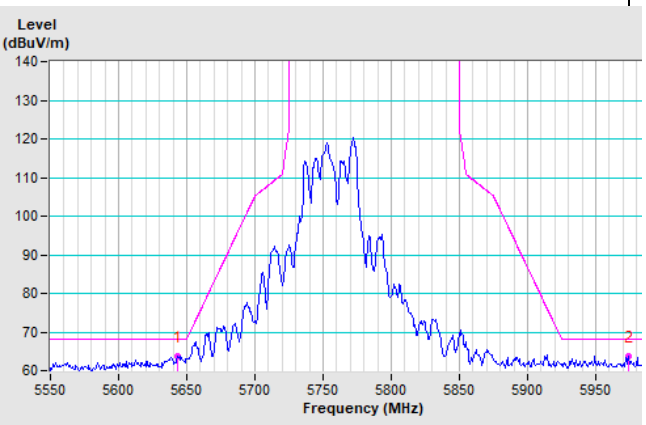
Horizontal	Vertical
	

CH 165 5825 MHz

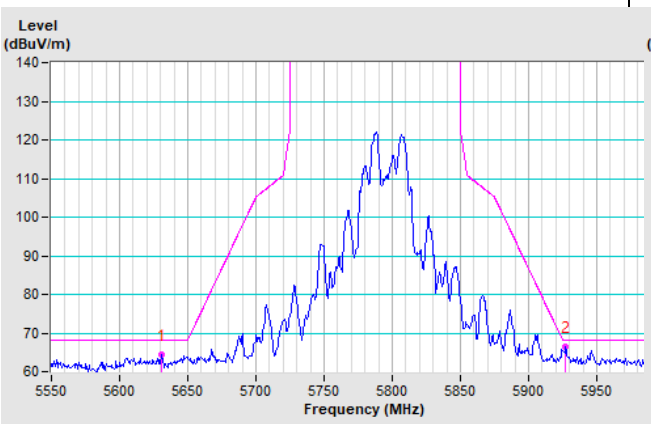
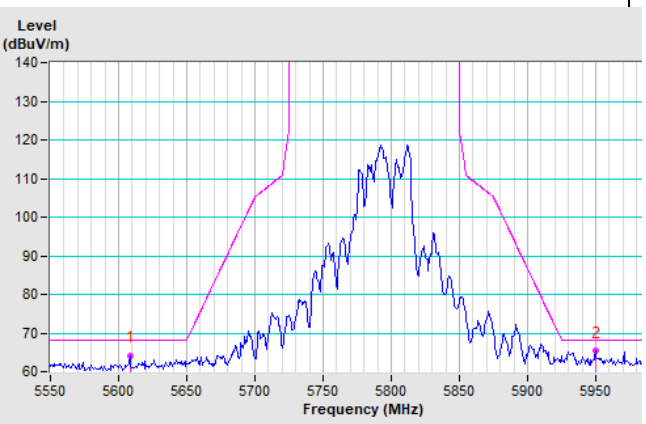
Horizontal	Vertical
	

802.11ax (40MHz)

CH 151 5755 MHz

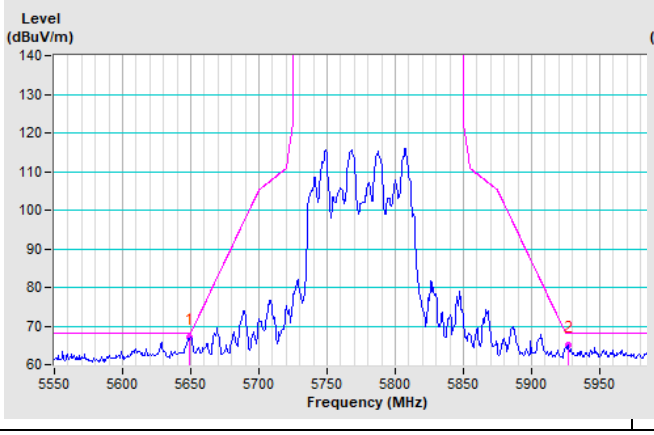
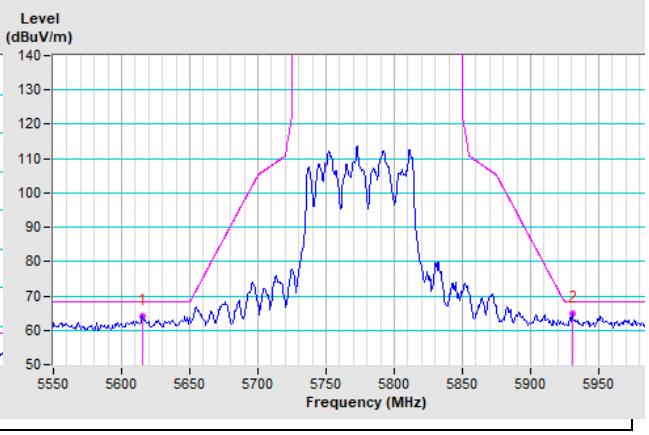
Horizontal	Vertical
	

CH 159 5795 MHz

Horizontal	Vertical
	

802.11ax (80MHz)

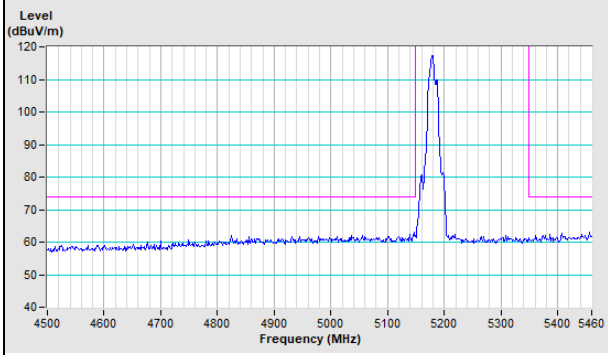
CH 155 5775 MHz

Horizontal	Vertical
	

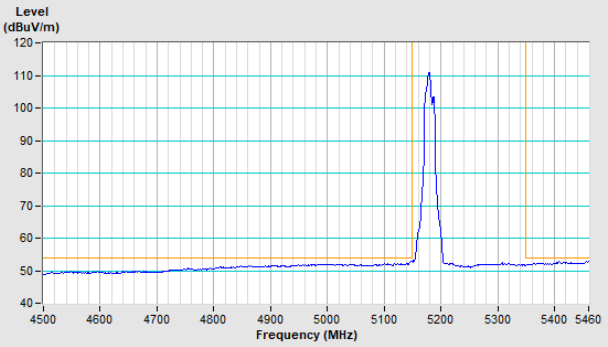
Annex B- Band Edge Measurement

802.11a Channel 36

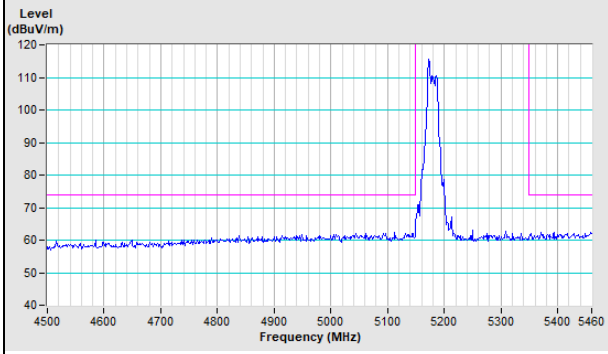
Horizontal (Peak)



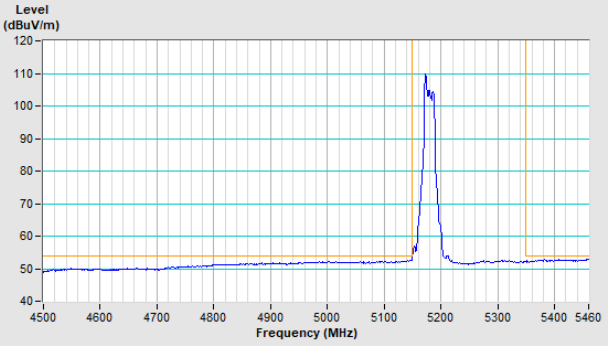
Horizontal (Average)



Vertical (Peak)

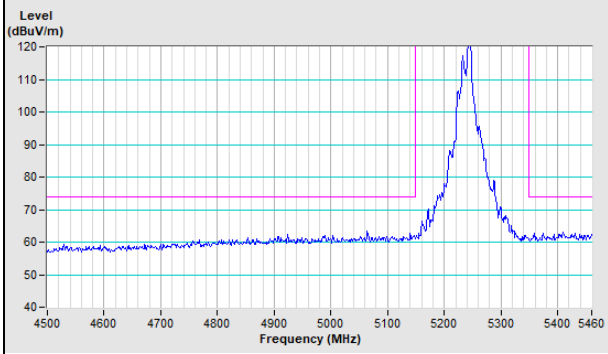


Vertical (Average)

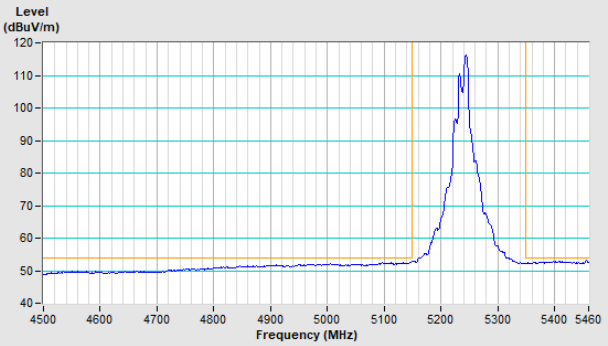


802.11a Channel 48

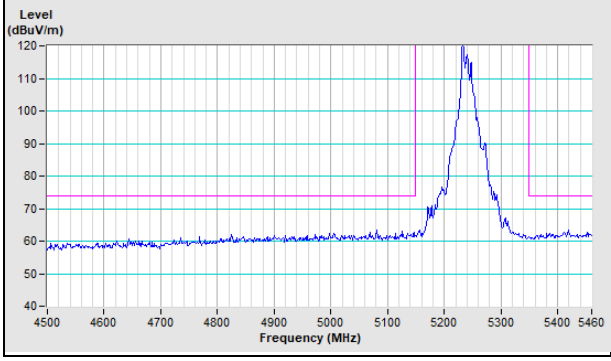
Horizontal (Peak)



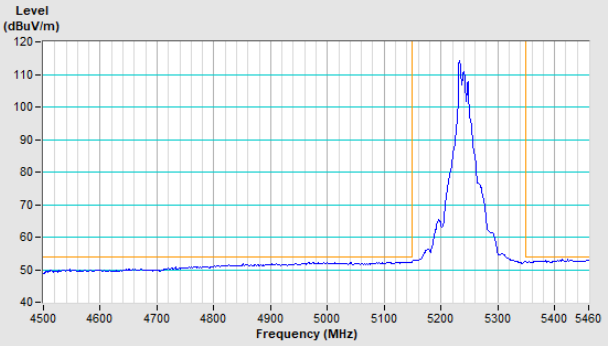
Horizontal (Average)



Vertical (Peak)

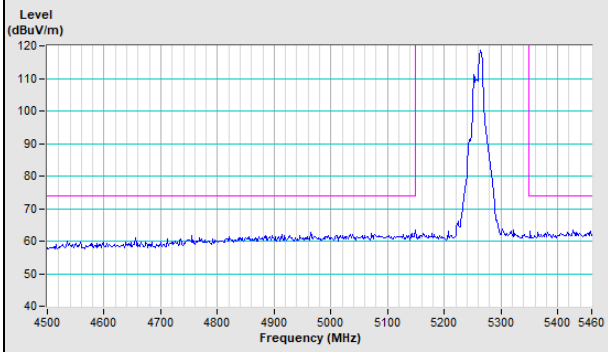


Vertical (Average)

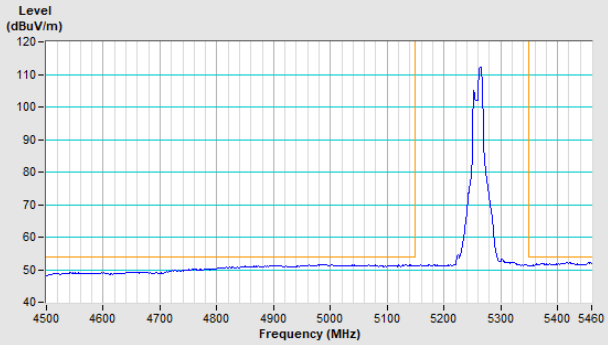


802.11a Channel 52

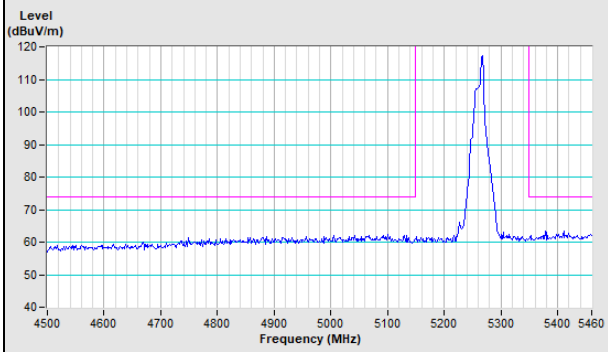
Horizontal (Peak)



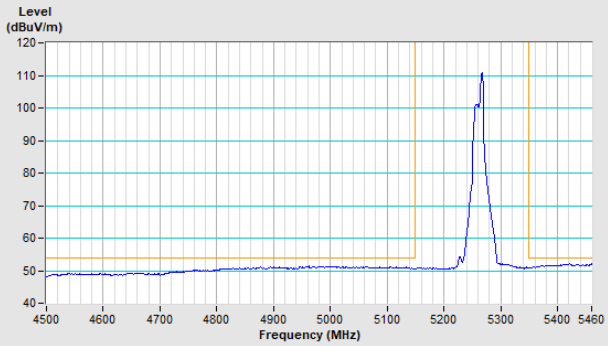
Horizontal (Average)



Vertical (Peak)

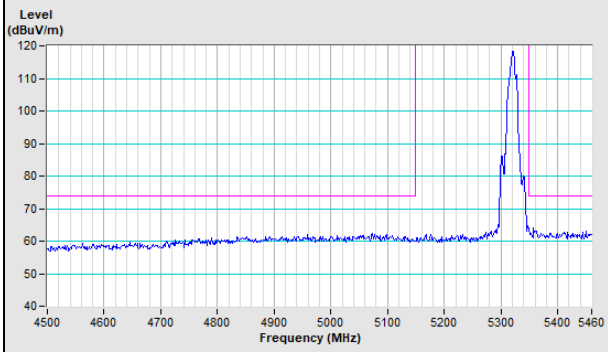


Vertical (Average)

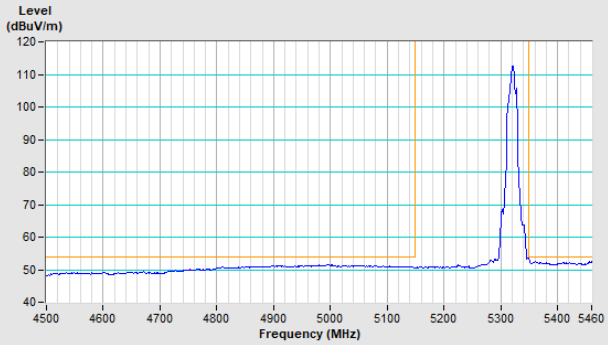


802.11a Channel 64

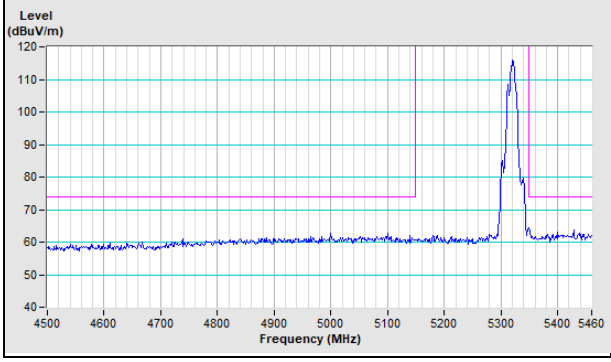
Horizontal (Peak)



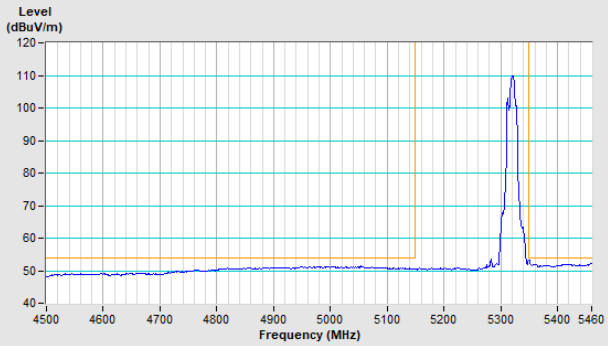
Horizontal (Average)

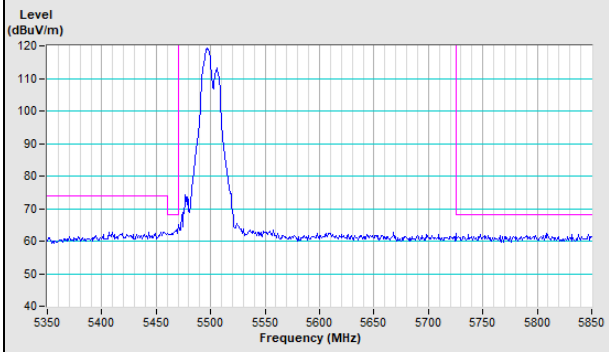
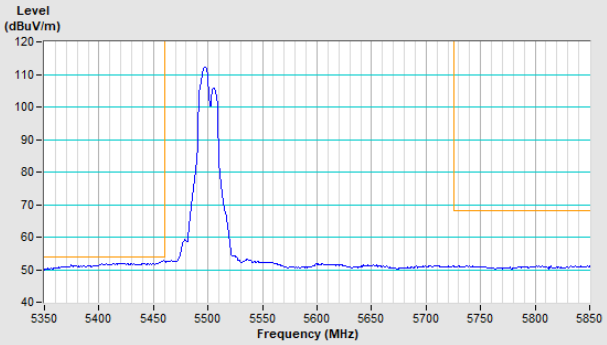
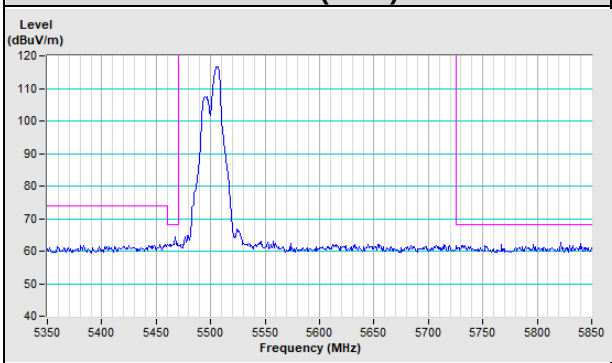
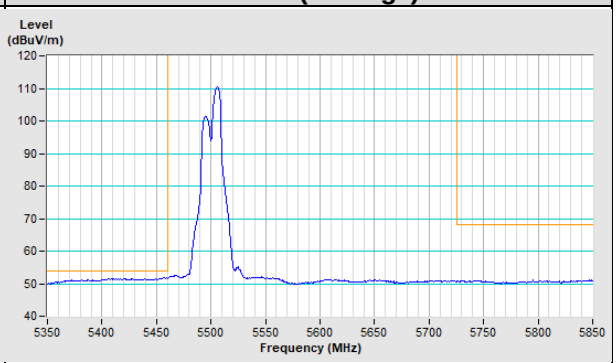


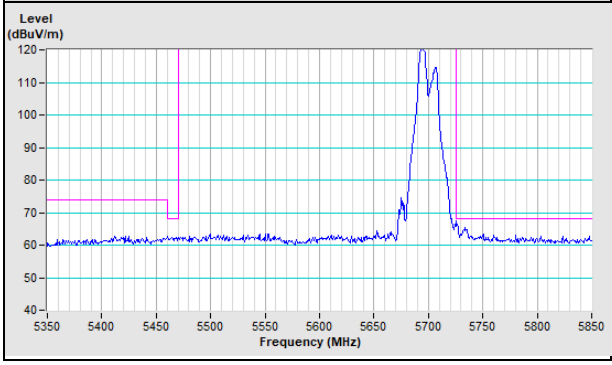
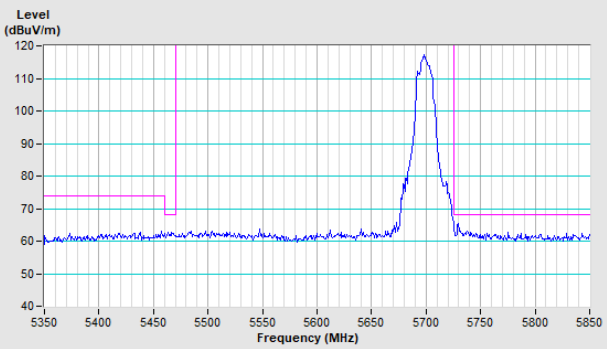
Vertical (Peak)



Vertical (Average)

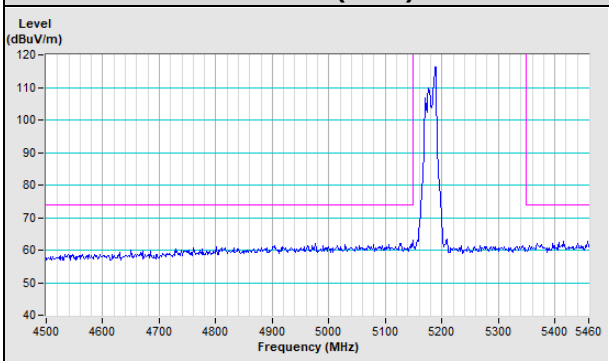


802.11a Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

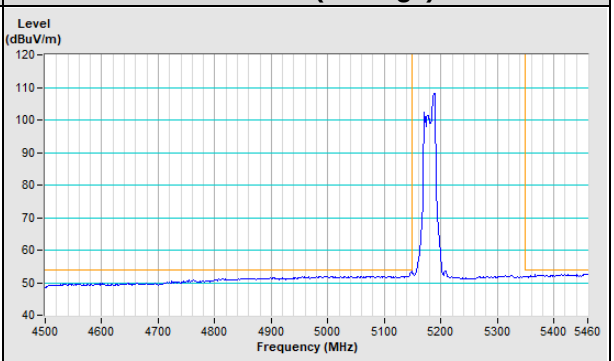
802.11a Channel 140	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (20MHz) Channel 36

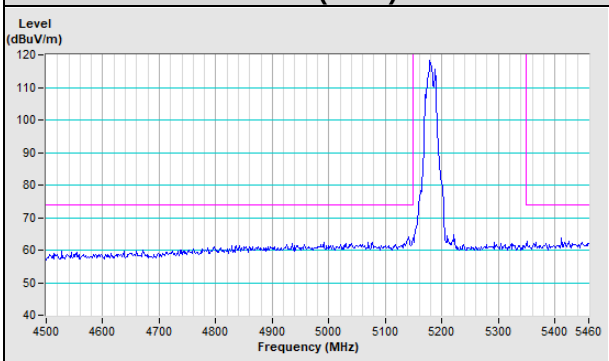
Horizontal (Peak)



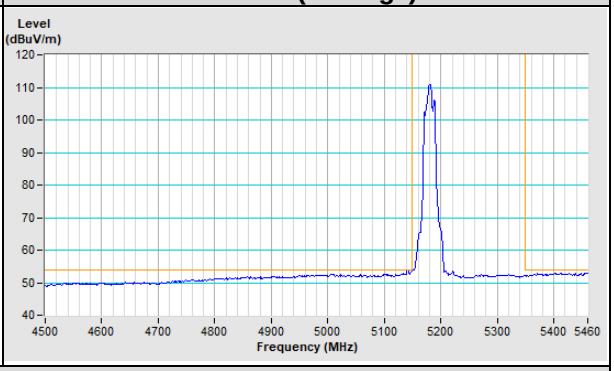
Horizontal (Average)



Vertical (Peak)

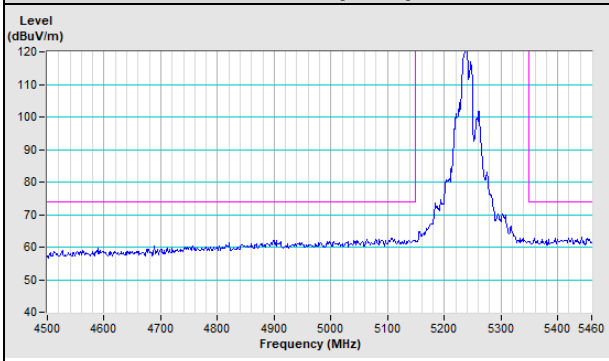


Vertical (Average)

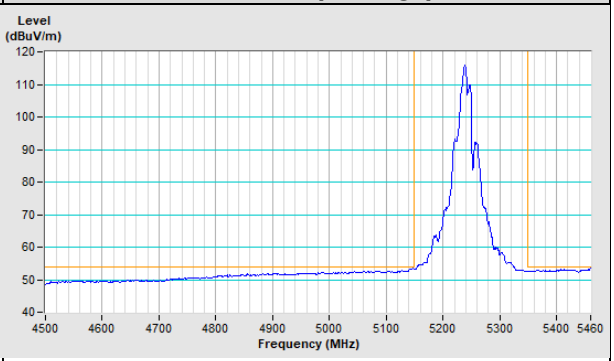


802.11ax (20MHz) Channel 48

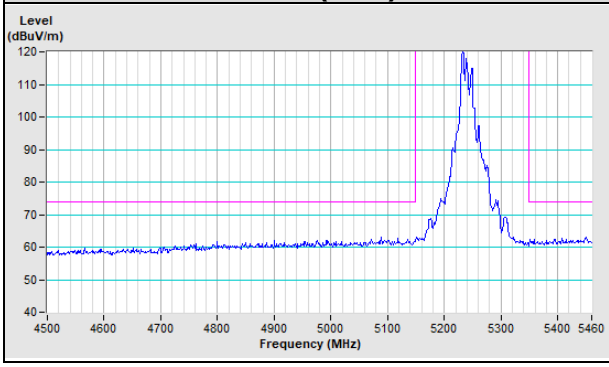
Horizontal (Peak)



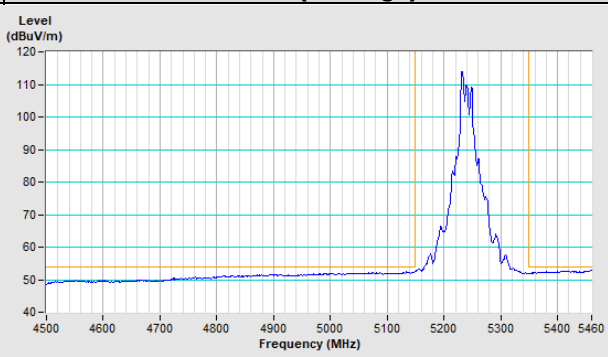
Horizontal (Average)

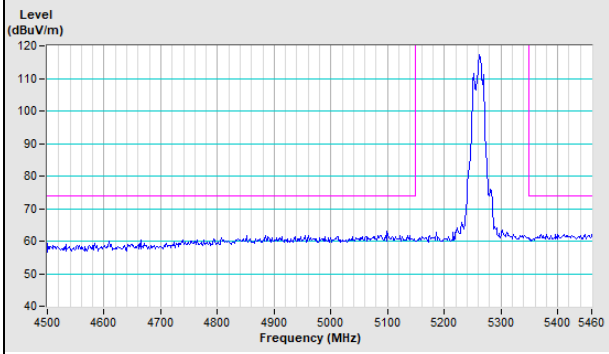
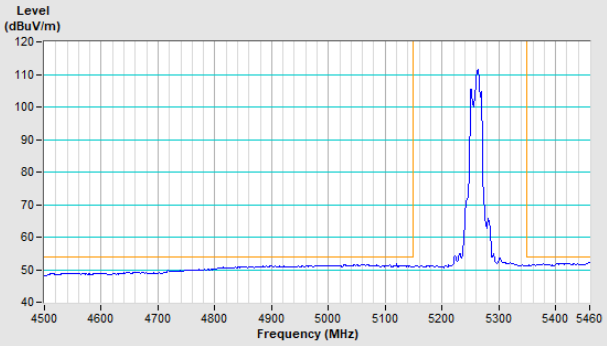
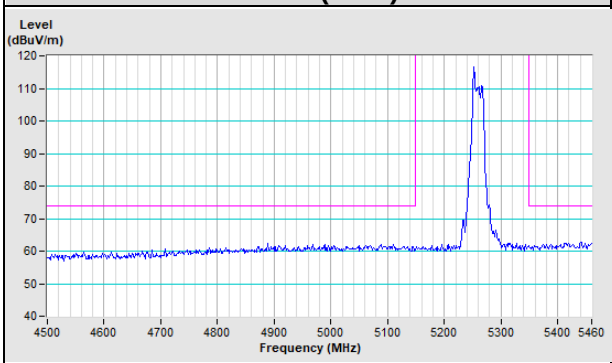
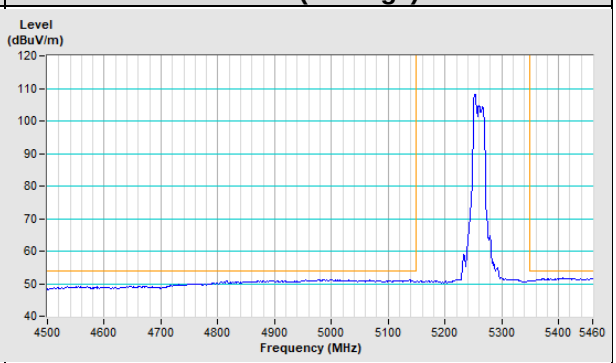
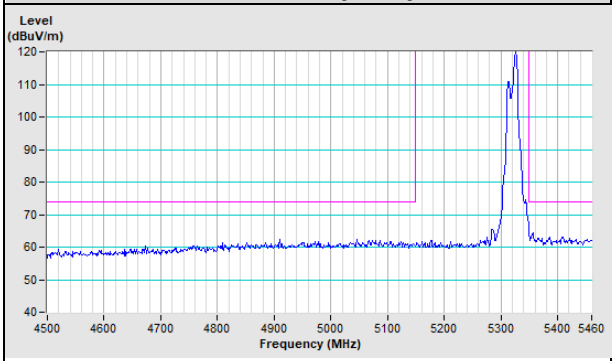
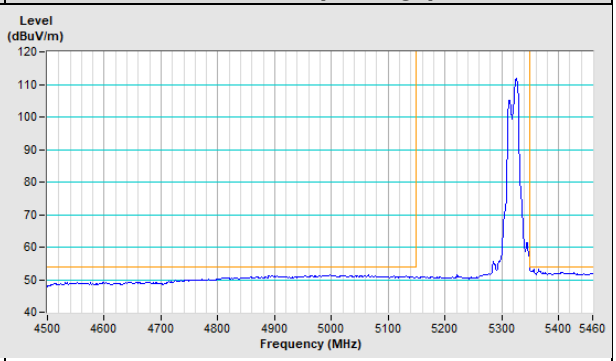
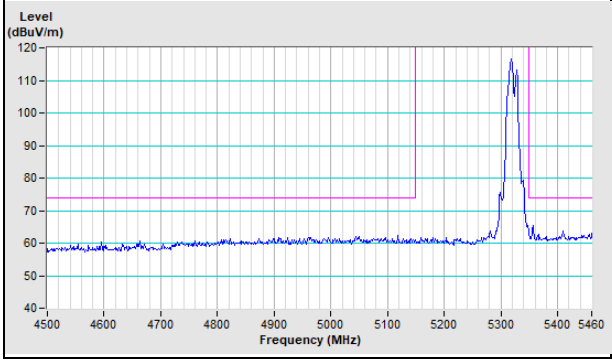
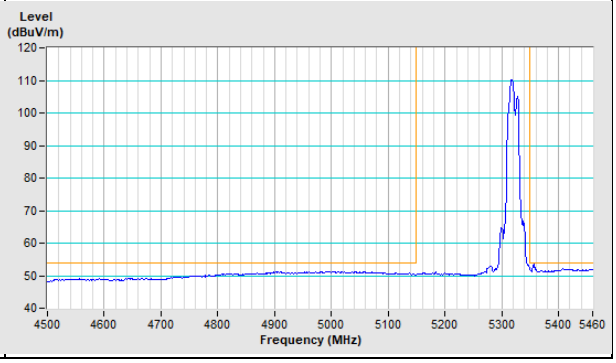


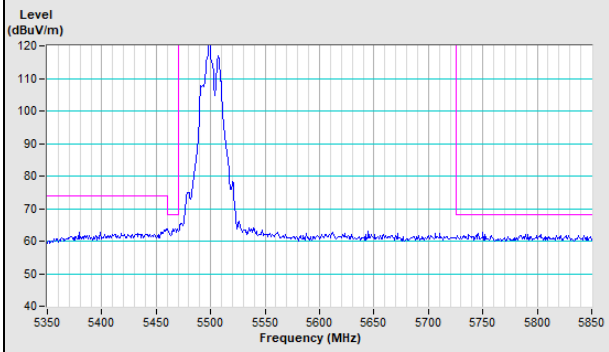
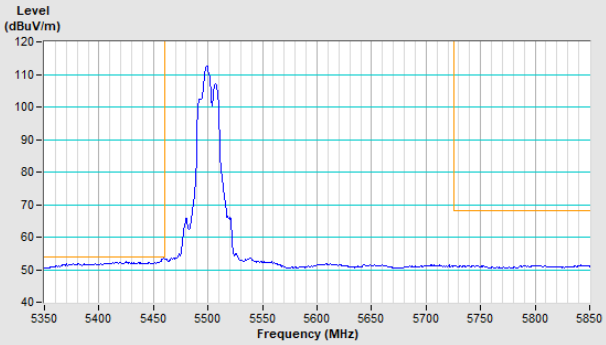
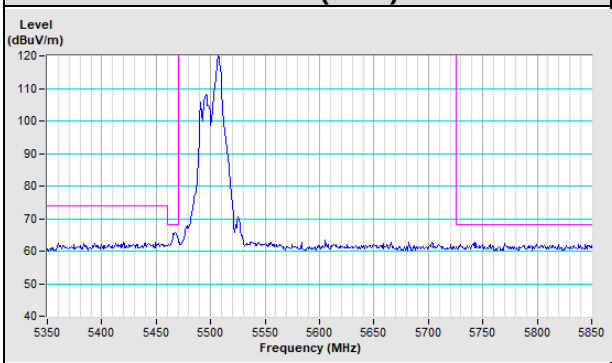
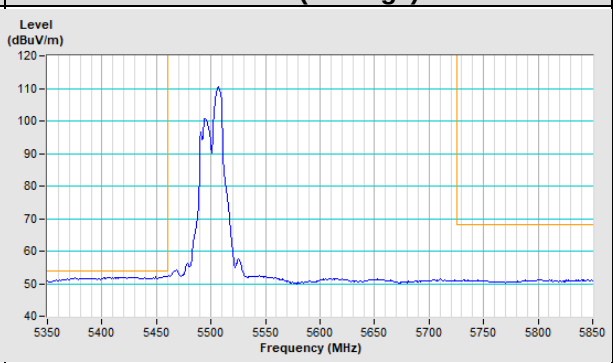
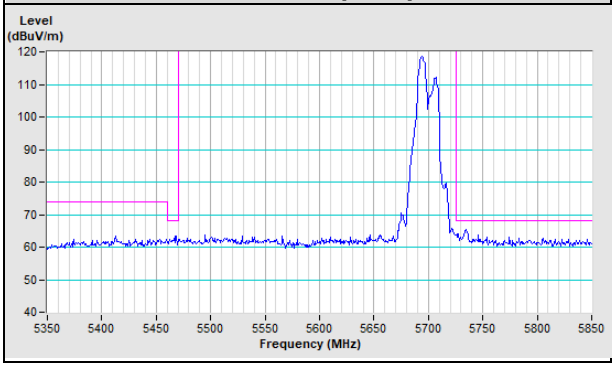
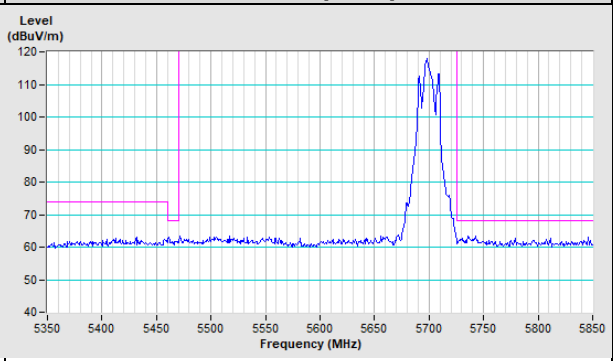
Vertical (Peak)



Vertical (Average)

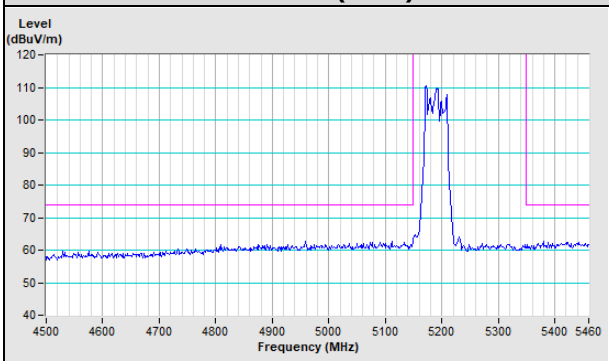


802.11ax (20MHz) Channel 52	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (20MHz) Channel 64	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

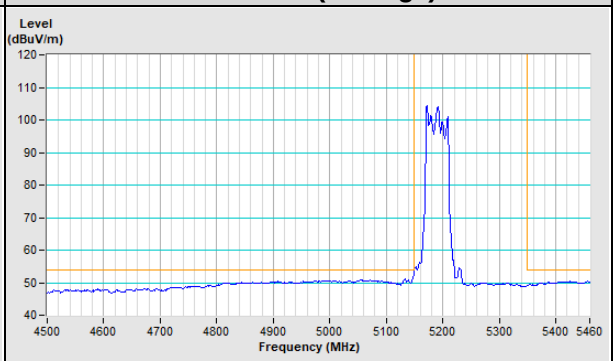
802.11ax (20MHz) Channel 100	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (20MHz) Channel 140	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (40MHz) Channel 38

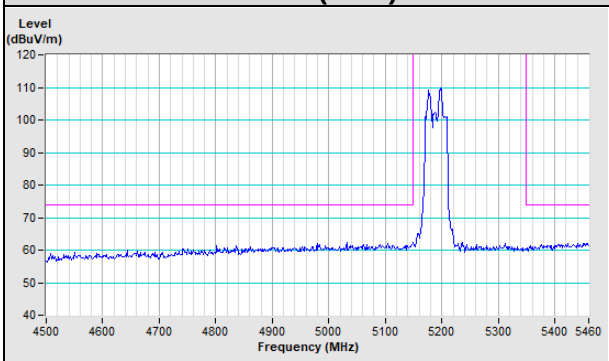
Horizontal (Peak)



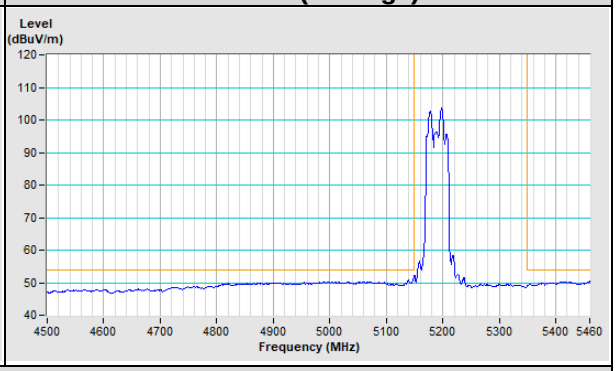
Horizontal (Average)



Vertical (Peak)

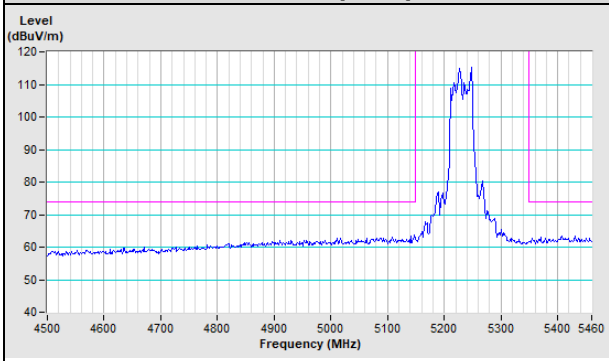


Vertical (Average)

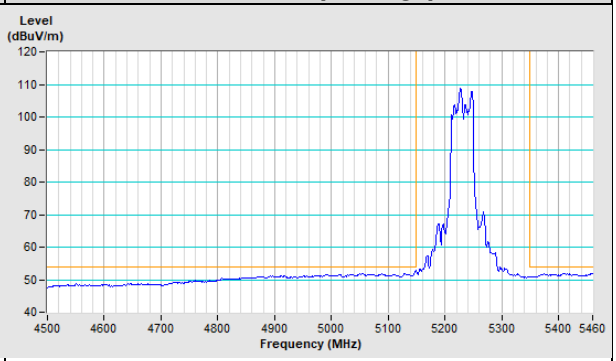


802.11ax (40MHz) Channel 46

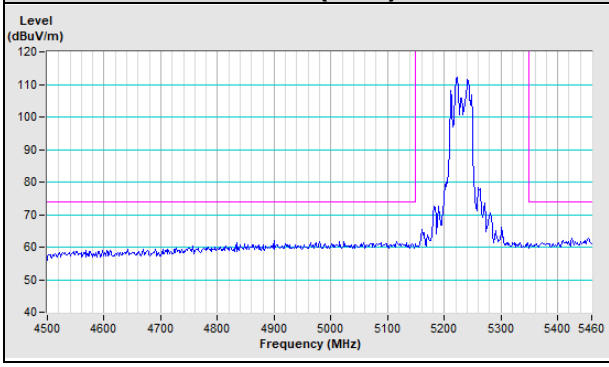
Horizontal (Peak)



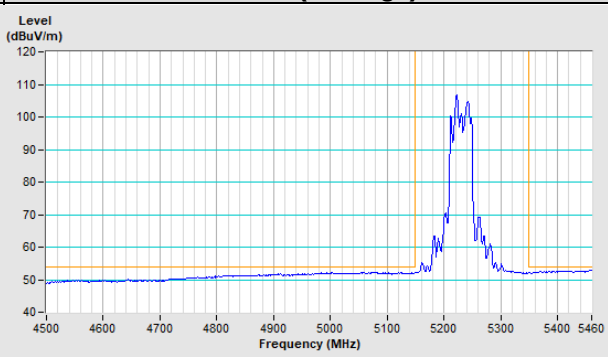
Horizontal (Average)



Vertical (Peak)

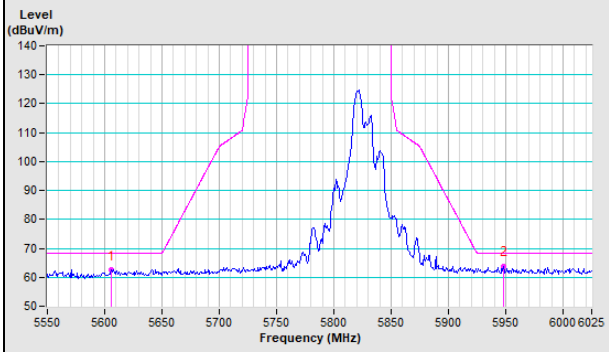


Vertical (Average)

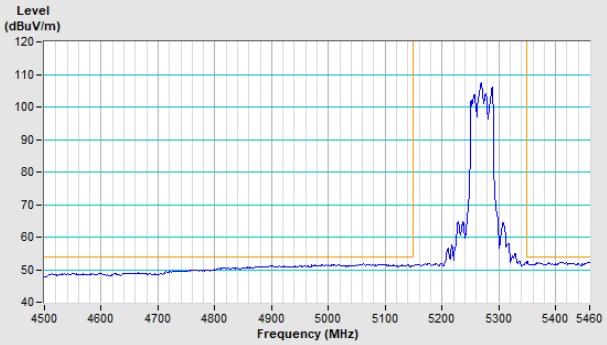


802.11ax (40MHz) Channel 54

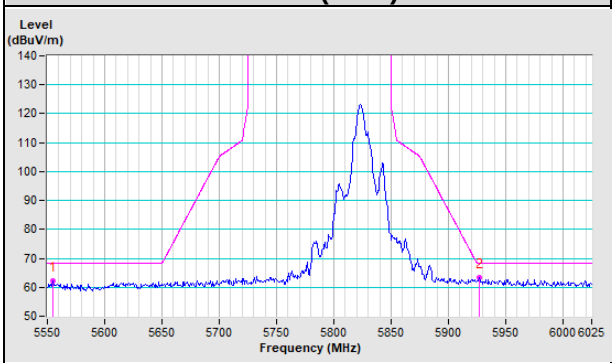
Horizontal (Peak)



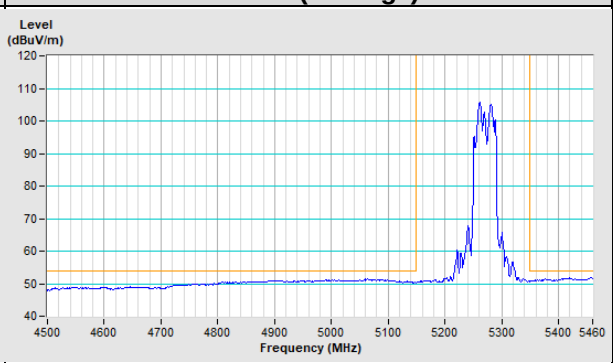
Horizontal (Average)



Vertical (Peak)

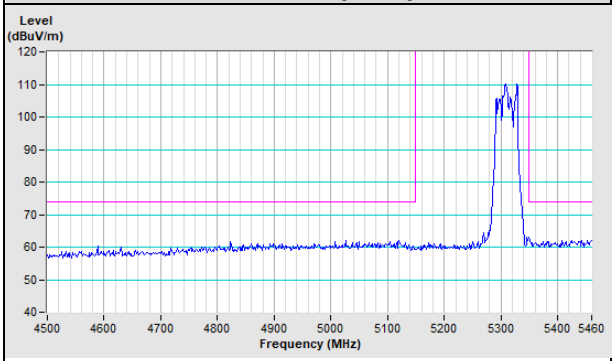


Vertical (Average)

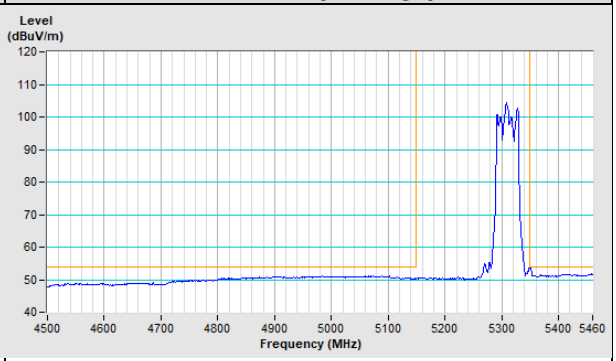


802.11ax (40MHz) Channel 62

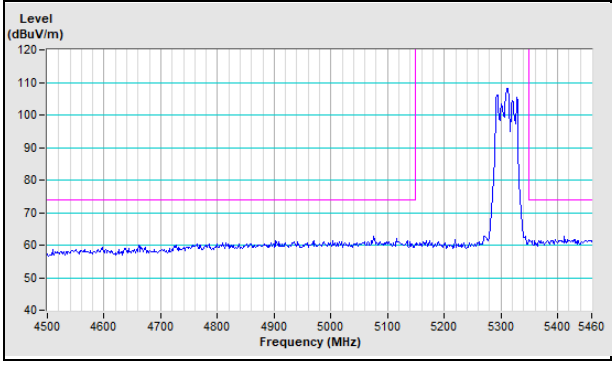
Horizontal (Peak)



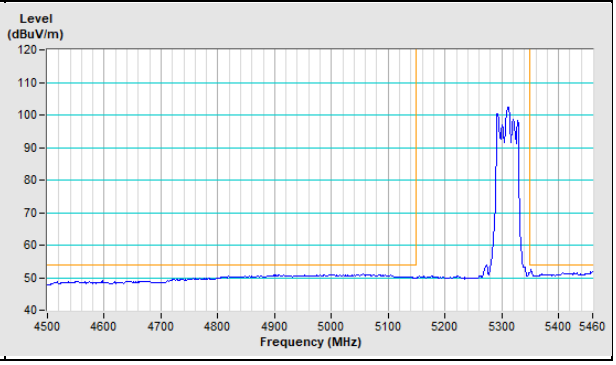
Horizontal (Average)

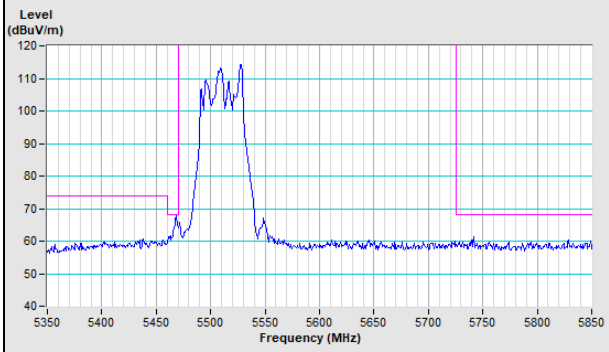
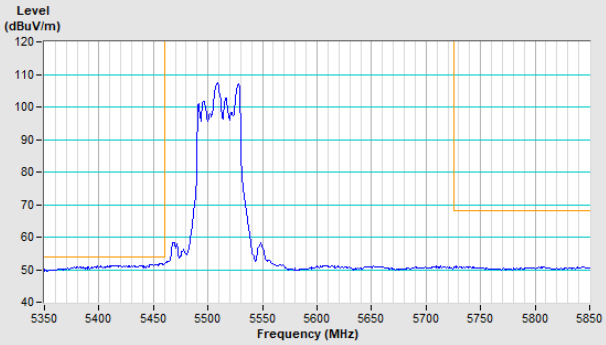
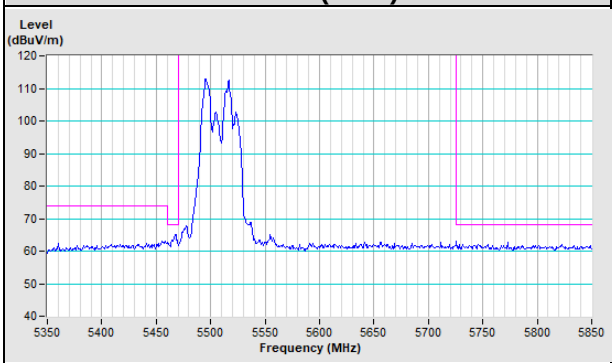
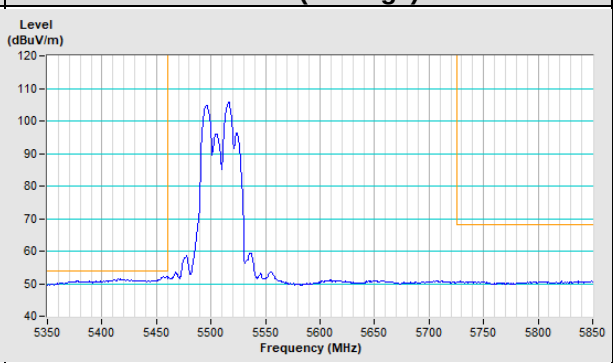


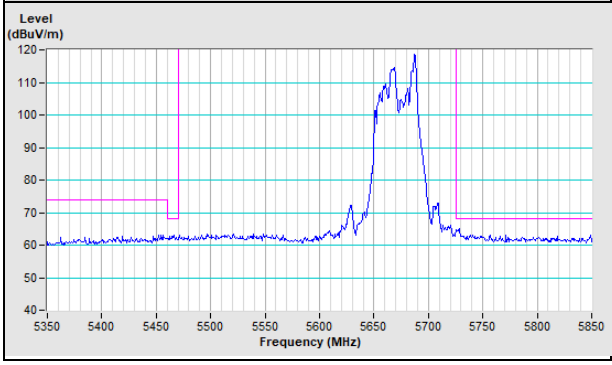
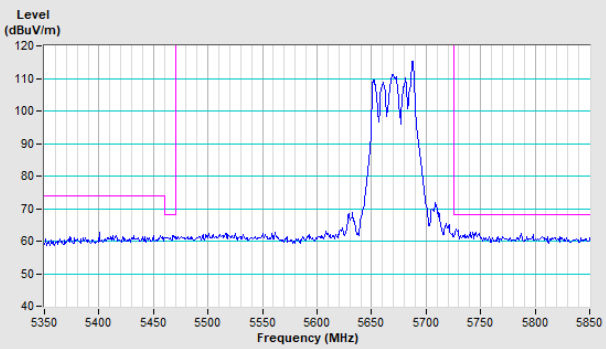
Vertical (Peak)



Vertical (Average)

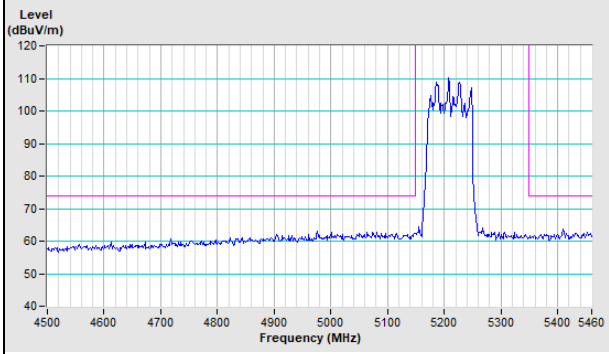


802.11ax (40MHz) Channel 102	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	

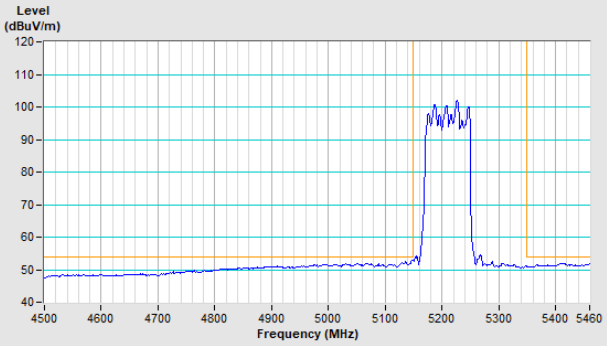
802.11ax (40MHz) Channel 134	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (80MHz) Channel 42

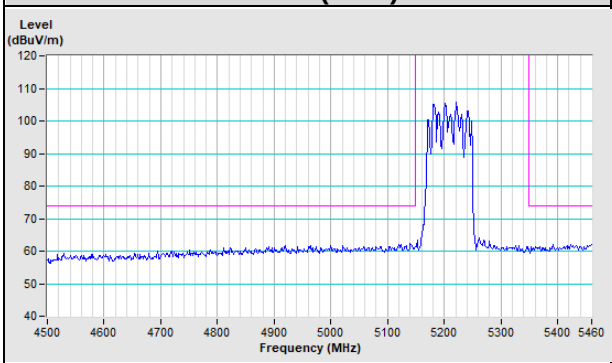
Horizontal (Peak)



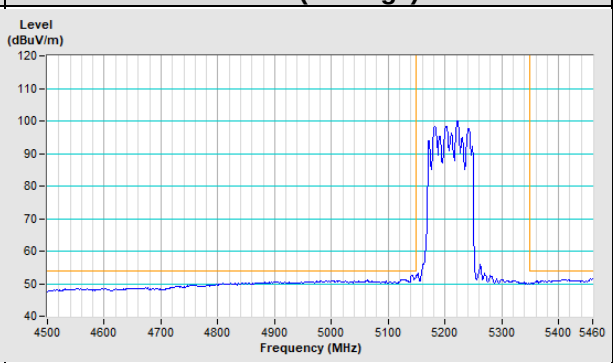
Horizontal (Average)



Vertical (Peak)

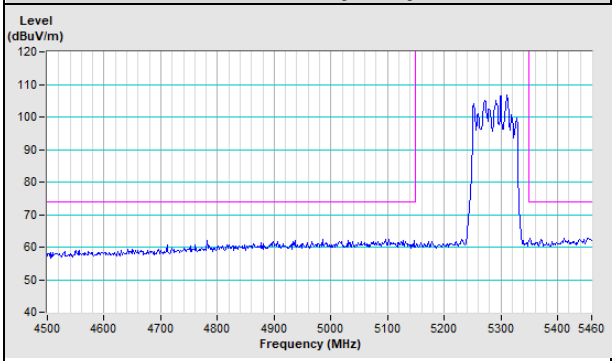


Vertical (Average)

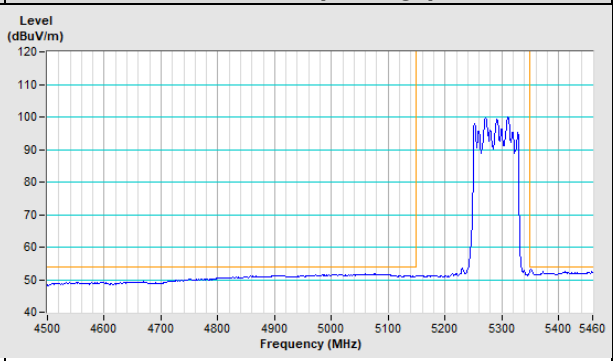


802.11ax (80MHz) Channel 58

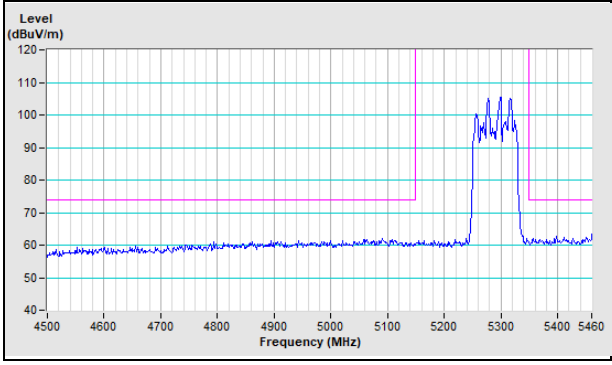
Horizontal (Peak)



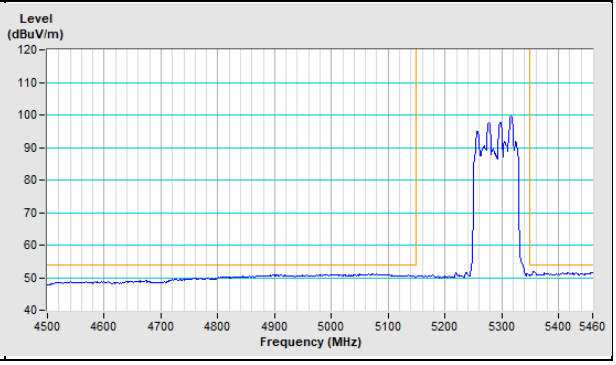
Horizontal (Average)

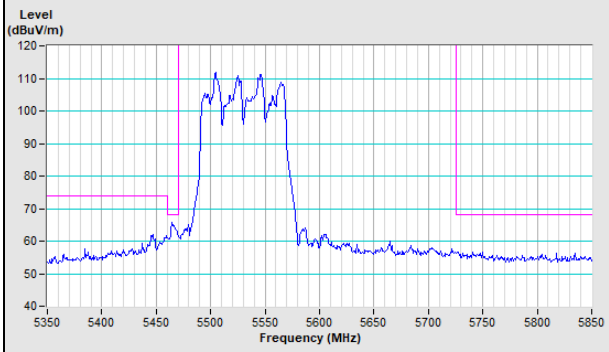
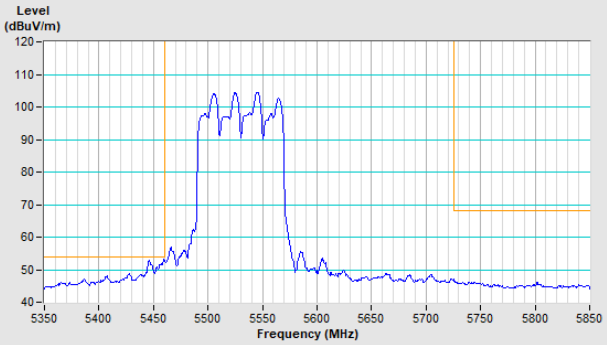
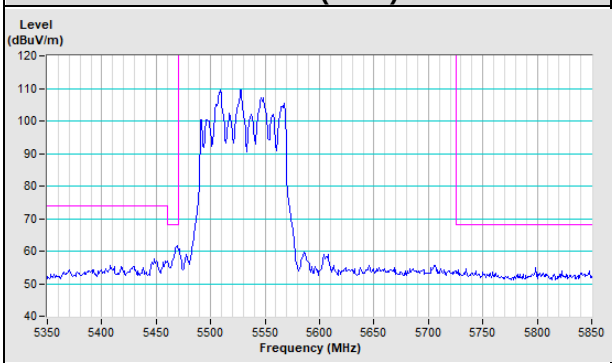
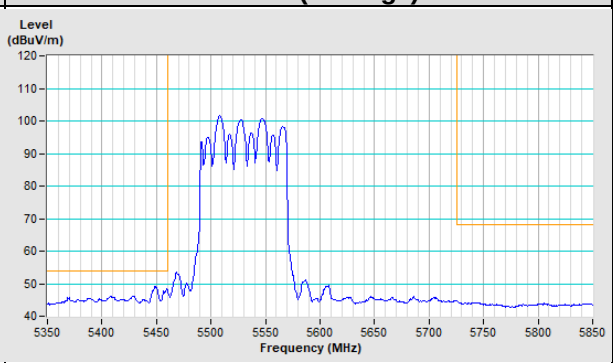
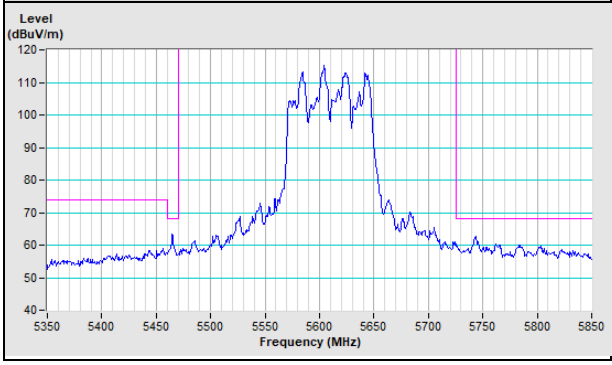
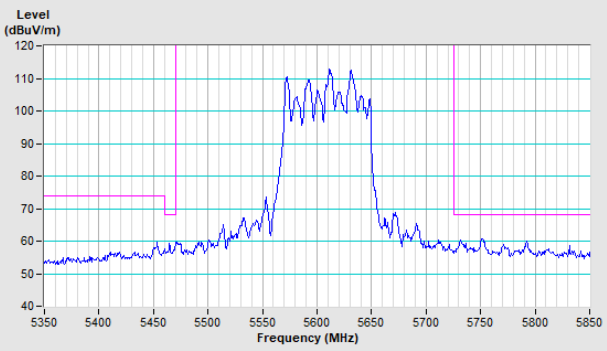


Vertical (Peak)



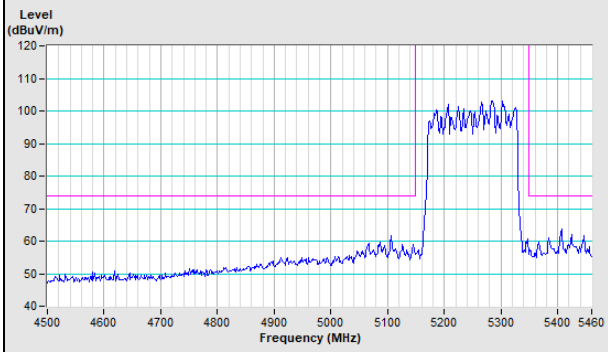
Vertical (Average)



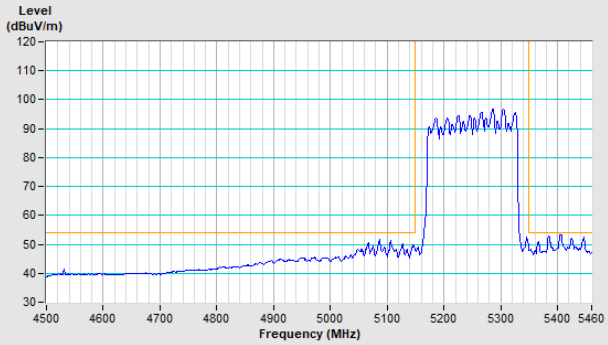
802.11ax (80MHz) Channel 106	
Horizontal (Peak)	Horizontal (Average)
	
Vertical (Peak)	Vertical (Average)
	
802.11ax (80MHz) Channel 122	
Horizontal (Peak)	Vertical (Peak)
	

802.11ax (160MHz) Channel 50

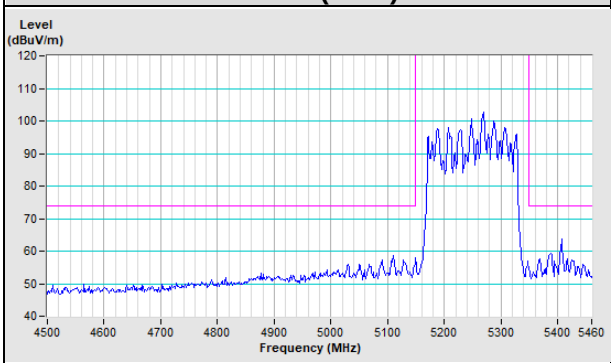
Horizontal (Peak)



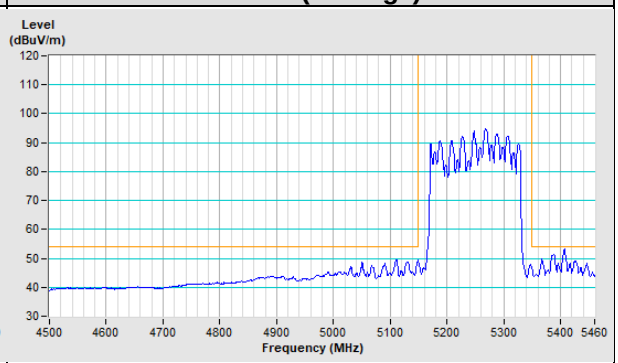
Horizontal (Average)



Vertical (Peak)

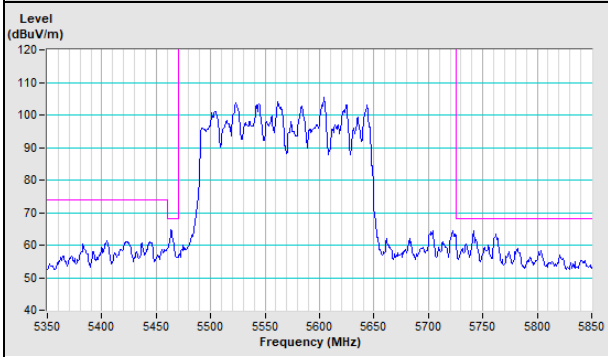


Vertical (Average)

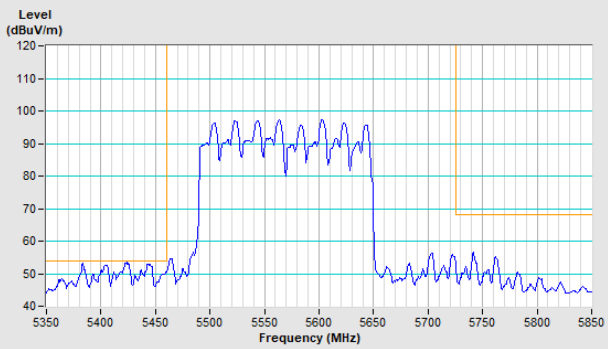


802.11ax (160MHz) Channel 114

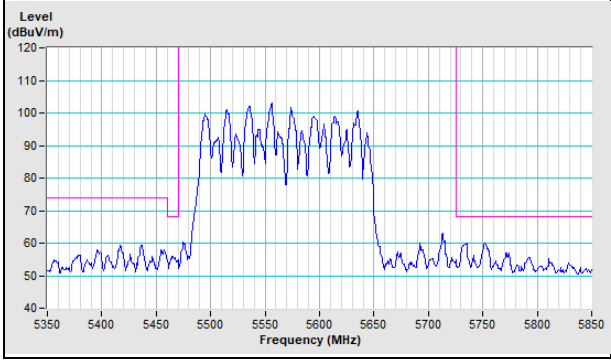
Horizontal (Peak)



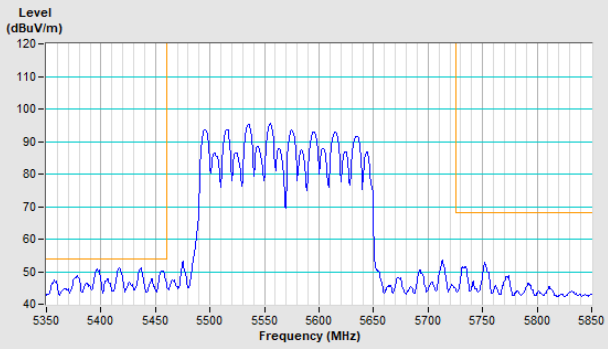
Horizontal (Average)



Vertical (Peak)



Vertical (Average)



Appendix – Information of the Testing Laboratories

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

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

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Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

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

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