

FCC Test Report

Report No.: RF200113C08-1

FCC ID: M72-TC60FR

Test Model: Trio C60

Received Date: Jan. 13, 2020

Test Date: Jan. 14 ~ Feb. 13, 2020

Issued Date: Feb. 15, 2020

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FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
RF200113C08-1	Original release	Feb. 15, 2020

1 Certificate of Conformity

Product: Conference Telephone

Brand:  poly

Test Model: Trio C60

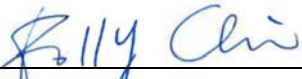
Sample Status: Engineering sample

Applicant: Polycom Inc.

Test Date: Jan. 14 ~ Feb. 13, 2020

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
ANSI C63.10:2013

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

Prepared by :  , **Date:** Feb. 15, 2020
Polly Chien / Specialist

Approved by :  , **Date:** Feb. 15, 2020
Bruce Chen / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -8.96dB at 0.42600MHz.
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 -3.5dB 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	Antenna connector is MHF I not a standard connector.

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
3. For U-NII-1, U-NII-2A and 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.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.79 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.86 dB
	200MHz ~ 1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Conference Telephone
Brand	
Test Model	Trio C60
Sample Status	Engineering sample
Power Supply Rating	55Vdc (POE)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 866.7Mbps
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 12 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	5180 ~ 5240MHz: 26.489mW 5260 ~ 5320MHz: 23.378mW 5500 ~ 5720MHz: 18.410mW 5745 ~ 5825MHz: 18.080mW
Antenna Type	PCB antenna with 2.23dBi gain
Antenna Connector	MHF I
Accessory Device	Refer to note
Cable Supplied	Refer to note

Note:

1. This report is a supplementary report to the original BV CPS report no.: RF20013C06A-1 which difference compared to the original report is adding DECT module. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Therefore, only AC power conducted emission, radiated emission below 1GHz and conducted power were verified and recorded in this report. For the others original data was kept.
2. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11ac (VHT20)	2TX
802.11ac (VHT40)	2TX
802.11ac (VHT80)	2TX

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

3. The EUT tests with following devices and cables.

Item	Brand	Model	Specification	Remark
Network Cable (RJ45)	NA	2457-17977-002	7.6m non-shielded without core	Accessory 25ft, 1 pc
POE Injector	Microsemi	PD-9001GC/AC	I/P: 100-240Vac, 50/60Hz, 1.0A O/P: 55Vdc, 0.6A	Optional 1 pc
Power Cord (For POE Injector)	NA	1456-47535-001	1.75m non-shielded without core	Optional 6ft, 1 pc
HDMI cable	NA	1488-05117-002	HDMI v1.4 0.75m shielded with 3 cores	Optional 1 pc
USB Cable (TypeA-Micro USB)	NA	2457-49007-001	1.22m shielded without core	Optional 4ft, 1 pc
RJ45 cable (LAN cable)	Polycom	2457-17977-007	2.05m shielded without core	Optional 7ft
Ex Mics	Poly	2202-86436-001	Cable: 2.1m non-shielded without core	Optional 7ft, 2 pcs

4. WLAN 2.4GHz & WLAN 5GHz technology cannot transmit at same time, but WLAN & BT technology can transmit at same time.

3.2 Description of Test Modes

For 5180 ~ 5240MHz:

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

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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

For 5260 ~ 5320MHz:

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

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

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

For 5500 ~ 5720MHz:

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

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

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

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

3 channels are provided for 802.11ac (VHT80):

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

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

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

Where RE $\geq$ 1G: Radiated Emission above 1GHz & Bandedge Measurement

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note:

1. Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power.

Radiated Emission Test (Above 1GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Frequency Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Data Rate (Mbps)
-	802.11a	5180-5240	36 to 48	36, 40, 48	OFDM	6.0
	802.11n (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11n (HT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11n (HT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

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)
-	802.11n (HT40)	38 to 46	38, 46	38	OFDM	13.5
-	802.11n (HT40)	54 to 62	54, 62		OFDM	13.5
-	802.11n (HT40)	102 to 142	102, 110, 134, 142		OFDM	13.5
-	802.11n (HT40)	151 to 159	151, 159		OFDM	13.5

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)
-	802.11n (HT40)	38 to 46	38, 46	38	OFDM	13.5
-	802.11n (HT40)	54 to 62	54, 62		OFDM	13.5
-	802.11n (HT40)	102 to 142	102, 110, 134, 142		OFDM	13.5
-	802.11n (HT40)	151 to 159	151, 159		OFDM	13.5

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 (HT20)		36 to 48	36, 40, 48	OFDM	6.5
	802.11n (HT40)		38 to 46	38, 46	OFDM	13.5
	802.11ac (VHT80)		42	42	OFDM	29.3
-	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	6.0
	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	6.5
	802.11n (HT40)		54 to 62	54, 62	OFDM	13.5
	802.11ac (VHT80)		58	58	OFDM	29.3
-	802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	6.0
	802.11n (HT20)		100 to 144	100, 116, 140, 144	OFDM	6.5
	802.11n (HT40)		102 to 142	102, 110, 134, 142	OFDM	13.5
	802.11ac (VHT80)		106 to 138	106, 122, 138	OFDM	29.3
-	802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	6.0
	802.11n (HT20)		149 to 165	149, 157, 165	OFDM	6.5
	802.11n (HT40)		151 to 159	151, 159	OFDM	13.5
	802.11ac (VHT80)		155	155	OFDM	29.3

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	23 deg. C, 67% RH	120Vac, 60Hz	Adair Peng
RE<1G	23 deg. C, 67% RH	120Vac, 60Hz	Adair Peng
PLC	23 deg. C, 66% RH	120Vac, 60Hz	Titan Hsu
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Ted Chang, Ivan Tseng

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

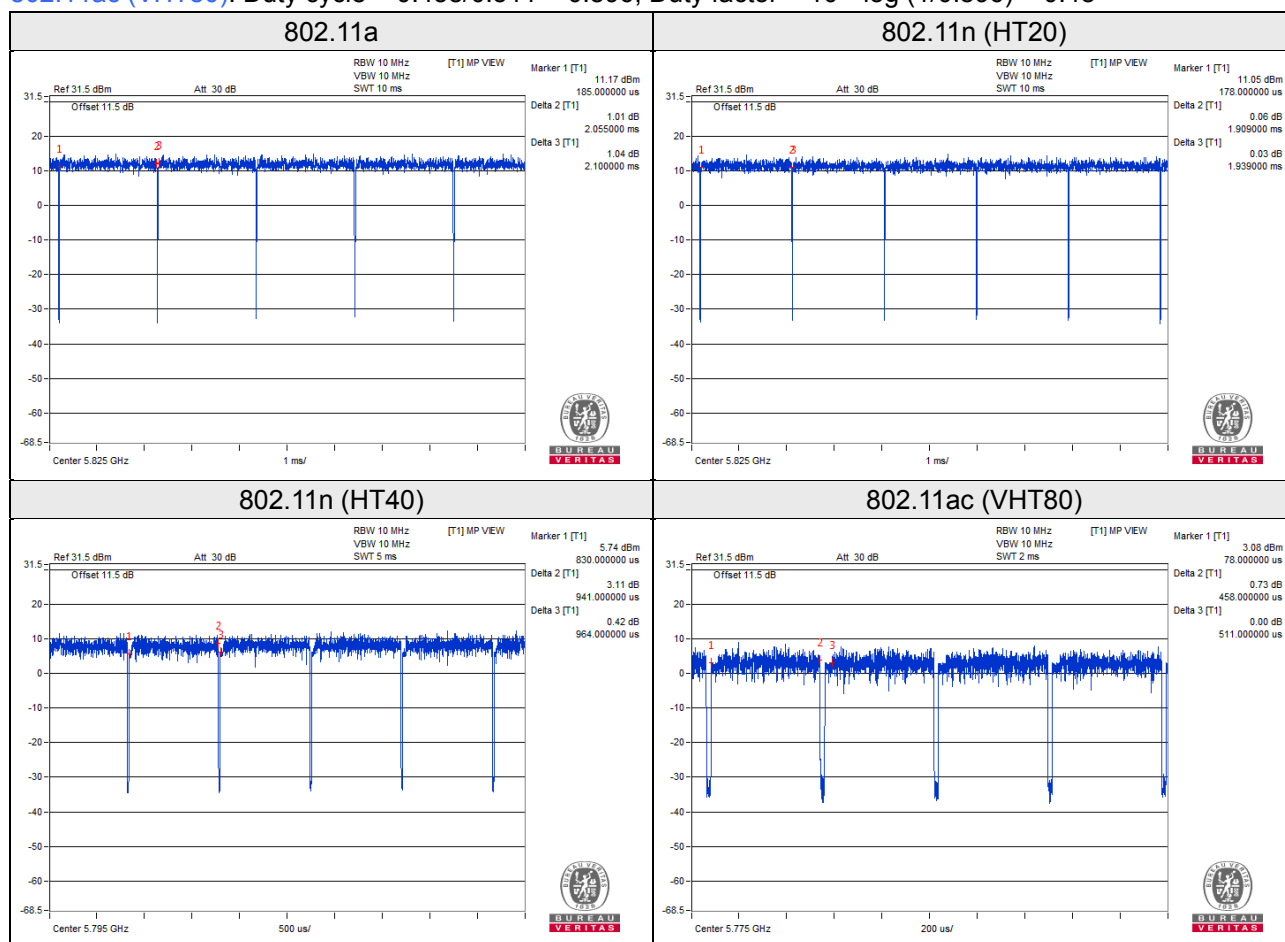
Duty cycle of test signal is $< 98\%$, duty factor is required.

802.11a: Duty cycle = $2.055/2.100 = 0.979$, Duty factor = $10 * \log(1/0.979) = 0.09$

802.11n (HT20): Duty cycle = $1.909/1.939 = 0.985$

802.11n (HT40): Duty cycle = $0.941/0.964 = 0.976$, Duty factor = $10 * \log(1/0.976) = 0.10$

802.11ac (VHT80): Duty cycle = $0.458/0.511 = 0.896$, Duty factor = $10 * \log(1/0.896) = 0.48$



3.4 Description of Support Units

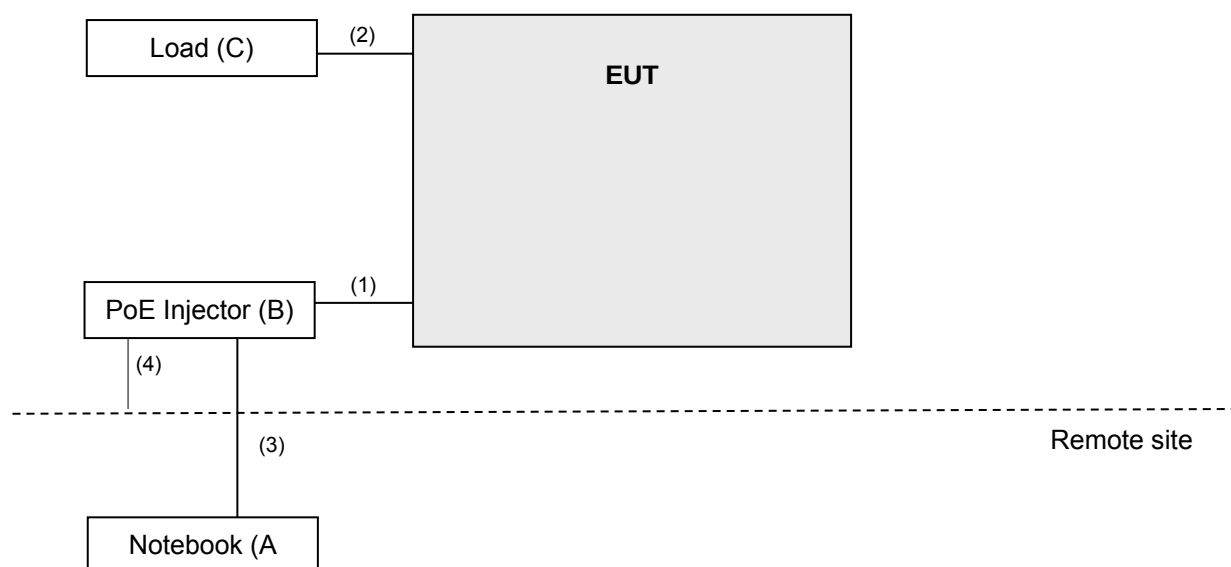
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	Lenovo	81A4	YD02TWF5	PPD-QCNFA435	Placed under test table
B.	PoE Injector	Microsemi	PD-9001GC/AC	NA	NA	Optional Provided by manufacturer
C.	Load	NA	NA	NA	NA	Placed under test table

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

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Network cable (RJ45)	1	7.6	N	0	Accessory of EUT RJ45, Cat5e
2.	LAN cable	1	2.05	Y	0	Provided by client RJ45, Cat5e
3.	LAN cable	1	6	N	0	RJ45, Cat5e
4.	AC power cable	1	1.75	N	0	Optional

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

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

Test standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10:2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

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

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 30, 2019	May 29, 2020
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	9120D	209	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna TESEQ	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 20, 2019	Aug. 19, 2020
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 27, 2019	Mar. 26, 2020
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 20, 2019	Aug. 19, 2020
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM-SM- 8000	Cable-CH3-03 (309224+170907)	Aug. 20, 2019	Aug. 19, 2020
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55190 004/MY55190007/MY55 210005	Jul. 15, 2019	Jul. 14, 2020
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980175	Sep. 05, 2019	Sep. 04, 2020

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

4.1.3 Test Procedures

For Radiated emission below 30MHz

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

Note:

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

For Radiated emission above 30MHz

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

Note:

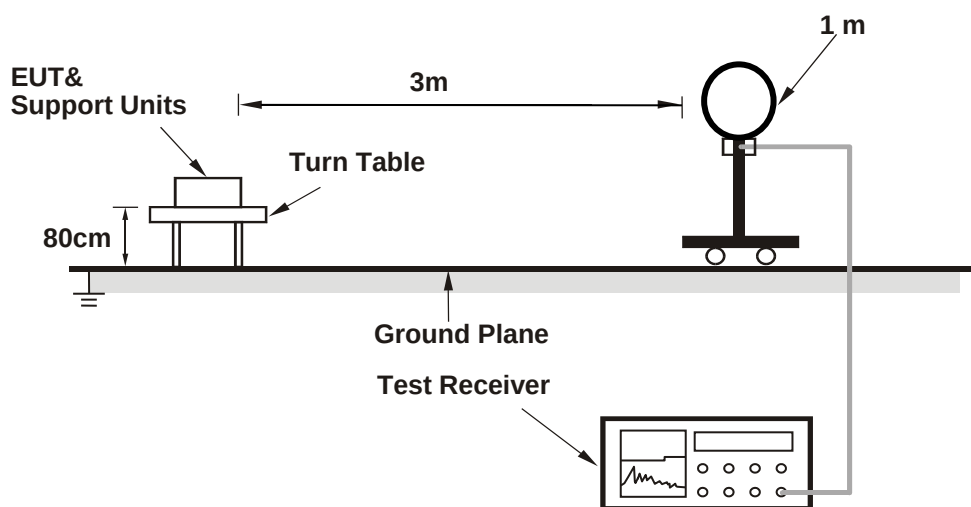
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz. (802.11a: RBW = 1MHz, VBW = 1kHz; 802.11n (HT20): RBW = 1MHz, VBW = 10Hz; 802.11n (HT40): RBW = 1MHz, VBW = 3kHz; 802.11ac (VHT80): RBW = 1MHz, VBW = 3kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

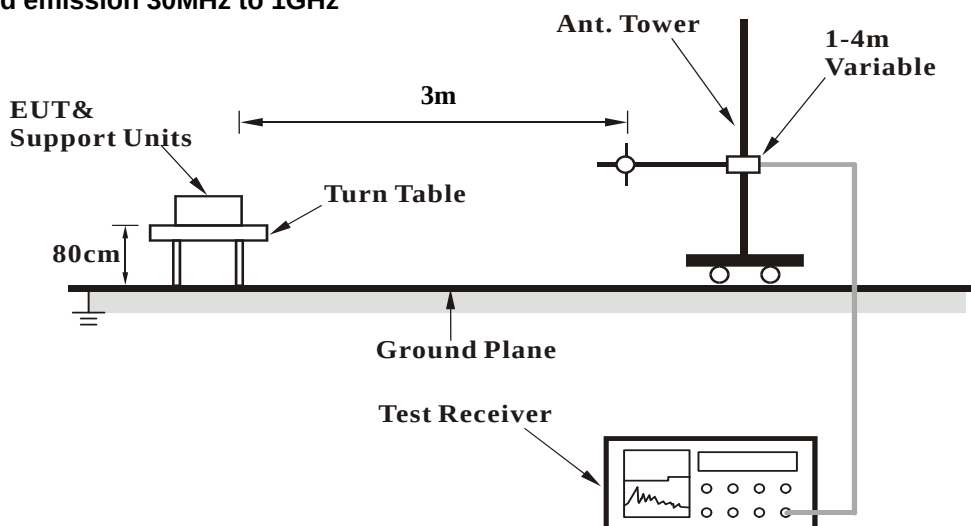
No deviation.

4.1.5 Test Setup

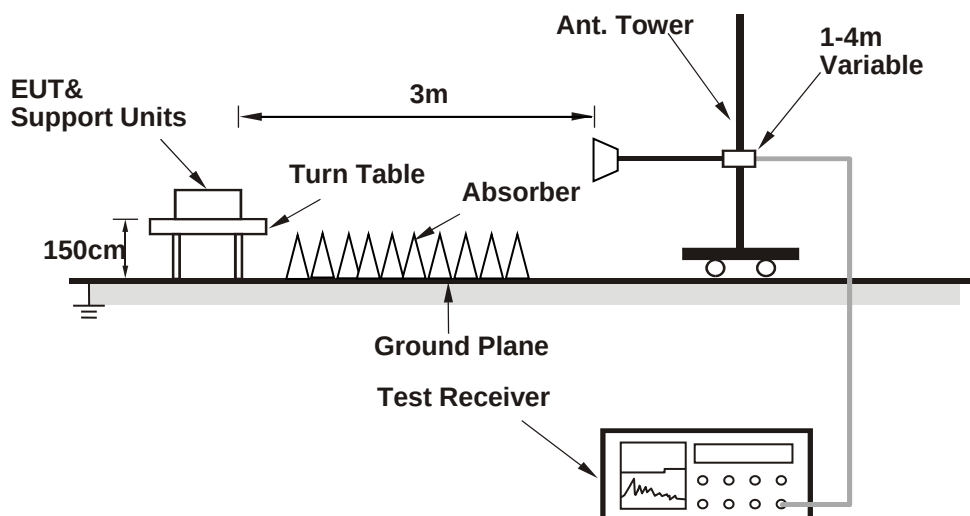
For Radiated emission below 30MHz



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

- Placed the EUT on the testing table.
- Prepared a notebook to act as a communication partner and placed it outside of testing area.
- 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.
- The communication partner sent data to EUT by command "PING".

4.1.7 Test Results

Above 1GHz data:

802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.6 PK	74.0	-17.4	1.11 H	320	52.5	4.1
2	5150.00	43.5 AV	54.0	-10.5	1.11 H	320	39.4	4.1
3	*5180.00	105.5 PK			1.03 H	316	66.2	39.3
4	*5180.00	95.7 AV			1.03 H	316	56.4	39.3
5	#10360.00	59.7 PK	68.2	-8.5	1.85 H	202	42.5	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.9 PK	74.0	-17.1	1.30 V	293	52.8	4.1
2	5150.00	43.5 AV	54.0	-10.5	1.30 V	293	39.4	4.1
3	*5180.00	106.1 PK			1.21 V	283	66.8	39.3
4	*5180.00	96.0 AV			1.21 V	283	56.7	39.3
5	#10360.00	60.1 PK	68.2	-8.1	1.71 V	305	42.9	17.2

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	105.6 PK			1.10 H	314	66.3	39.3
2	*5200.00	96.1 AV			1.10 H	314	56.8	39.3
3	#10400.00	60.2 PK	68.2	-8.0	1.86 H	205	42.8	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	106.1 PK			1.07 V	287	66.8	39.3
2	*5200.00	96.1 AV			1.07 V	287	56.8	39.3
3	#10400.00	60.4 PK	68.2	-7.8	1.68 V	299	43.0	17.4

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.8 PK			1.10 H	315	66.7	39.1
2	*5240.00	96.5 AV			1.10 H	315	57.4	39.1
3	5350.00	56.3 PK	74.0	-17.7	1.17 H	320	52.2	4.1
4	5350.00	42.6 AV	54.0	-11.4	1.17 H	320	38.5	4.1
5	#10480.00	60.6 PK	68.2	-7.6	1.91 H	223	42.6	18.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.6 PK			1.17 V	285	67.5	39.1
2	*5240.00	96.5 AV			1.17 V	285	57.4	39.1
3	5350.00	56.1 PK	74.0	-17.9	1.20 V	290	52.0	4.1
4	5350.00	42.5 AV	54.0	-11.5	1.20 V	290	38.4	4.1
5	#10480.00	60.8 PK	68.2	-7.4	1.74 V	310	42.8	18.0

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	1.11 H	9	52.2	4.1
2	5150.00	42.6 AV	54.0	-11.4	1.11 H	9	38.5	4.1
3	*5260.00	105.4 PK			1.10 H	3	66.4	39.0
4	*5260.00	95.2 AV			1.10 H	3	56.2	39.0
5	#10520.00	61.5 PK	68.2	-6.7	1.73 H	221	43.2	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	1.14 V	290	52.3	4.1
2	5150.00	42.9 AV	54.0	-11.1	1.14 V	290	38.8	4.1
3	*5260.00	106.2 PK			1.10 V	284	67.2	39.0
4	*5260.00	95.9 AV			1.10 V	284	56.9	39.0
5	#10520.00	61.8 PK	68.2	-6.4	1.89 V	313	43.5	18.3

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	105.6 PK			1.15 H	13	66.5	39.1
2	*5300.00	95.3 AV			1.15 H	13	56.2	39.1
3	10600.00	61.2 PK	74.0	-12.8	1.82 H	230	42.3	18.9
4	10600.00	47.2 AV	54.0	-6.8	1.82 H	230	28.3	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	106.3 PK			1.16 V	285	67.2	39.1
2	*5300.00	96.1 AV			1.16 V	285	57.0	39.1
3	10600.00	61.6 PK	74.0	-12.4	1.91 V	302	42.7	18.9
4	10600.00	47.8 AV	54.0	-6.2	1.91 V	302	28.9	18.9

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	104.8 PK			1.09 H	10	65.6	39.2
2	*5320.00	94.9 AV			1.09 H	10	55.7	39.2
3	5350.00	55.4 PK	74.0	-18.6	1.13 H	11	51.3	4.1
4	5350.00	42.4 AV	54.0	-11.6	1.13 H	11	38.3	4.1
5	10640.00	60.7 PK	74.0	-13.3	1.80 H	229	42.1	18.6
6	10640.00	47.4 AV	54.0	-6.6	1.80 H	229	28.8	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	105.5 PK			1.34 V	285	66.3	39.2
2	*5320.00	95.7 AV			1.34 V	285	56.5	39.2
3	5350.00	55.9 PK	74.0	-18.1	1.27 V	289	51.8	4.1
4	5350.00	42.7 AV	54.0	-11.3	1.27 V	289	38.6	4.1
5	10640.00	61.1 PK	74.0	-12.9	1.84 V	297	42.5	18.6
6	10640.00	47.9 AV	54.0	-6.1	1.84 V	297	29.3	18.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.9 PK	74.0	-17.1	1.05 H	315	52.4	4.5
2	5460.00	42.8 AV	54.0	-11.2	1.05 H	315	38.3	4.5
3	#5470.00	57.2 PK	68.2	-11.0	1.07 H	320	52.7	4.5
4	*5500.00	106.0 PK			1.00 H	317	66.3	39.7
5	*5500.00	96.7 AV			1.00 H	317	57.0	39.7
6	11000.00	62.0 PK	74.0	-12.0	1.69 H	208	42.7	19.3
7	11000.00	48.2 AV	54.0	-5.8	1.69 H	208	28.9	19.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	1.59 V	328	51.5	4.5
2	5460.00	42.3 AV	54.0	-11.7	1.59 V	328	37.8	4.5
3	#5470.00	56.3 PK	68.2	-11.9	1.60 V	330	51.8	4.5
4	*5500.00	104.2 PK			1.56 V	326	64.5	39.7
5	*5500.00	93.9 AV			1.56 V	326	54.2	39.7
6	11000.00	61.8 PK	74.0	-12.2	1.98 V	310	42.5	19.3
7	11000.00	48.1 AV	54.0	-5.9	1.98 V	310	28.8	19.3

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.4 PK			1.02 H	318	65.7	39.7
2	*5580.00	96.3 AV			1.02 H	318	56.6	39.7
3	11160.00	61.5 PK	74.0	-12.5	1.74 H	201	42.9	18.6
4	11160.00	47.4 AV	54.0	-6.6	1.74 H	201	28.8	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	103.5 PK			1.60 V	322	63.8	39.7
2	*5580.00	93.7 AV			1.60 V	322	54.0	39.7
3	11160.00	61.1 PK	74.0	-12.9	2.05 V	331	42.5	18.6
4	11160.00	46.9 AV	54.0	-7.1	2.05 V	331	28.3	18.6

Remarks:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	105.4 PK			1.05 H	318	65.6	39.8
2	*5700.00	96.0 AV			1.05 H	318	56.2	39.8
3	#5725.00	57.3 PK	68.2	-10.9	1.10 H	320	52.6	4.7
4	11400.00	61.1 PK	74.0	-12.9	1.78 H	212	42.6	18.5
5	11400.00	47.5 AV	54.0	-6.5	1.78 H	212	29.0	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.3 PK			1.55 V	318	63.5	39.8
2	*5700.00	93.8 AV			1.55 V	318	54.0	39.8
3	#5725.00	56.7 PK	68.2	-11.5	1.63 V	323	52.0	4.7
4	11400.00	60.8 PK	74.0	-13.2	2.01 V	299	42.3	18.5
5	11400.00	47.2 AV	54.0	-6.8	2.01 V	299	28.7	18.5

Remarks:

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

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.5 PK	74.0	-18.5	1.11 H	312	51.0	4.5
2	5460.00	42.3 AV	54.0	-11.7	1.11 H	312	37.8	4.5
3	#5470.00	55.5 PK	68.2	-12.7	1.10 H	320	51.0	4.5
4	*5720.00	105.3 PK			1.06 H	318	65.3	40.0
5	*5720.00	96.2 AV			1.06 H	318	56.2	40.0
6	#5825.00	56.8 PK	68.2	-11.4	1.15 H	323	51.6	5.2
7	11440.00	61.1 PK	74.0	-12.9	1.84 H	220	42.5	18.6
8	11440.00	47.7 AV	54.0	-6.3	1.84 H	220	29.1	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.3 PK	74.0	-18.7	1.31 V	290	50.8	4.5
2	5460.00	42.2 AV	54.0	-11.8	1.31 V	290	37.7	4.5
3	#5470.00	55.4 PK	68.2	-12.8	1.23 V	292	50.9	4.5
4	*5720.00	104.0 PK			1.19 V	288	64.0	40.0
5	*5720.00	94.2 AV			1.19 V	288	54.2	40.0
6	#5825.00	56.5 PK	68.2	-11.7	1.25 V	282	51.3	5.2
7	11440.00	60.8 PK	74.0	-13.2	1.88 V	309	42.2	18.6
8	11440.00	47.4 AV	54.0	-6.6	1.88 V	309	28.8	18.6

Remarks:

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5642.31	55.3 PK	68.2	-12.9	1.00 H	318	50.8	4.5
2	*5745.00	105.4 PK			1.00 H	318	65.4	40.0
3	*5745.00	96.2 AV			1.00 H	318	56.2	40.0
4	#5987.18	56.1 PK	68.2	-12.1	1.00 H	318	50.7	5.4
5	11490.00	60.4 PK	74.0	-13.6	1.65 H	205	41.6	18.8
6	11490.00	47.3 AV	54.0	-6.7	1.65 H	205	28.5	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.08	55.2 PK	68.2	-13.0	1.37 V	287	50.7	4.5
2	*5745.00	104.7 PK			1.37 V	287	64.7	40.0
3	*5745.00	95.2 AV			1.37 V	287	55.2	40.0
4	#5974.36	56.2 PK	68.2	-12.0	1.37 V	287	50.9	5.3
5	11490.00	60.8 PK	74.0	-13.2	1.82 V	263	42.0	18.8
6	11490.00	47.6 AV	54.0	-6.4	1.82 V	263	28.8	18.8

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5617.31	54.4 PK	68.2	-13.8	1.04 H	318	49.9	4.5
2	*5785.00	105.5 PK			1.04 H	318	65.3	40.2
3	*5785.00	96.1 AV			1.04 H	318	55.9	40.2
4	#5982.05	56.2 PK	68.2	-12.0	1.04 H	318	50.8	5.4
5	11570.00	62.0 PK	74.0	-12.0	1.73 H	219	43.5	18.5
6	11570.00	47.2 AV	54.0	-6.8	1.73 H	219	28.7	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5638.46	55.3 PK	68.2	-12.9	1.21 V	289	50.8	4.5
2	*5785.00	104.0 PK			1.21 V	289	63.8	40.2
3	*5785.00	94.2 AV			1.21 V	289	54.0	40.2
4	#5926.92	56.8 PK	68.2	-11.4	1.21 V	289	51.5	5.3
5	11570.00	60.5 PK	74.0	-13.5	1.86 V	274	42.0	18.5
6	11570.00	47.3 AV	54.0	-6.7	1.86 V	274	28.8	18.5

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5619.87	55.0 PK	68.2	-13.2	1.00 H	318	50.5	4.5
2	*5825.00	105.3 PK			1.00 H	318	64.9	40.4
3	*5825.00	95.9 AV			1.00 H	318	55.5	40.4
4	#5993.59	57.1 PK	68.2	-11.1	1.00 H	318	51.7	5.4
5	11650.00	61.4 PK	74.0	-12.6	1.77 H	223	42.9	18.5
6	11650.00	48.0 AV	54.0	-6.0	1.77 H	223	29.5	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.74	56.1 PK	68.2	-12.1	1.09 V	288	51.6	4.5
2	*5825.00	104.3 PK			1.09 V	288	63.9	40.4
3	*5825.00	94.6 AV			1.09 V	288	54.2	40.4
4	#5981.41	55.9 PK	68.2	-12.3	1.09 V	288	50.5	5.4
5	11650.00	61.2 PK	74.0	-12.8	1.77 V	249	42.7	18.5
6	11650.00	47.8 AV	54.0	-6.2	1.77 V	249	29.3	18.5

Remarks:

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

802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.1 PK	74.0	-16.9	1.11 H	302	53.0	4.1
2	5150.00	43.3 AV	54.0	-10.7	1.11 H	302	39.2	4.1
3	*5180.00	105.3 PK			1.05 H	313	66.0	39.3
4	*5180.00	95.6 AV			1.05 H	313	56.3	39.3
5	#10360.00	59.8 PK	68.2	-8.4	1.88 H	209	42.6	17.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	57.0 PK	74.0	-17.0	1.14 V	290	52.9	4.1
2	5150.00	43.4 AV	54.0	-10.6	1.14 V	290	39.3	4.1
3	*5180.00	105.7 PK			1.09 V	286	66.4	39.3
4	*5180.00	95.2 AV			1.09 V	286	55.9	39.3
5	#10360.00	59.7 PK	68.2	-8.5	1.78 V	309	42.5	17.2

Remarks:

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

CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	105.5 PK			1.11 H	313	66.2	39.3
2	*5200.00	95.3 AV			1.11 H	313	56.0	39.3
3	#10400.00	60.3 PK	68.2	-7.9	1.77 H	205	42.9	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	106.3 PK			1.17 V	286	67.0	39.3
2	*5200.00	95.7 AV			1.17 V	286	56.4	39.3
3	#10400.00	60.5 PK	68.2	-7.7	1.74 V	300	43.1	17.4

Remarks:

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

CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	105.6 PK			1.11 H	315	66.5	39.1
2	*5240.00	96.1 AV			1.11 H	315	57.0	39.1
3	5350.00	56.1 PK	74.0	-17.9	1.17 H	320	52.0	4.1
4	5350.00	42.7 AV	54.0	-11.3	1.17 H	320	38.6	4.1
5	#10480.00	60.7 PK	68.2	-7.5	1.91 H	205	42.7	18.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	106.3 PK			1.18 V	285	67.2	39.1
2	*5240.00	95.6 AV			1.18 V	285	56.5	39.1
3	5350.00	56.0 PK	74.0	-18.0	1.20 V	290	51.9	4.1
4	5350.00	42.4 AV	54.0	-11.6	1.20 V	290	38.3	4.1
5	#10480.00	60.8 PK	68.2	-7.4	1.70 V	305	42.8	18.0

Remarks:

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

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.4 PK	74.0	-18.6	1.08 H	9	51.3	4.1
2	5150.00	42.4 AV	54.0	-11.6	1.08 H	9	38.3	4.1
3	*5260.00	104.7 PK			1.14 H	12	65.7	39.0
4	*5260.00	94.3 AV			1.14 H	12	55.3	39.0
5	#10520.00	60.9 PK	68.2	-7.3	1.78 H	217	42.6	18.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.9 PK	74.0	-18.1	1.20 V	284	51.8	4.1
2	5150.00	42.7 AV	54.0	-11.3	1.20 V	284	38.6	4.1
3	*5260.00	105.5 PK			1.17 V	284	66.5	39.0
4	*5260.00	95.0 AV			1.17 V	284	56.0	39.0
5	#10520.00	61.3 PK	68.2	-6.9	1.85 V	305	43.0	18.3

Remarks:

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

CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	105.6 PK			1.10 H	5	66.5	39.1
2	*5300.00	94.8 AV			1.10 H	5	55.7	39.1
3	10600.00	61.0 PK	74.0	-13.0	1.81 H	223	42.1	18.9
4	10600.00	47.4 AV	54.0	-6.6	1.81 H	223	28.5	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	106.4 PK			1.17 V	286	67.3	39.1
2	*5300.00	95.6 AV			1.17 V	286	56.5	39.1
3	10600.00	61.6 PK	74.0	-12.4	1.89 V	311	42.7	18.9
4	10600.00	47.8 AV	54.0	-6.2	1.89 V	311	28.9	18.9

Remarks:

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

CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	105.5 PK			1.15 H	10	66.3	39.2
2	*5320.00	94.7 AV			1.15 H	10	55.5	39.2
3	5350.00	56.0 PK	74.0	-18.0	1.10 H	7	51.9	4.1
4	5350.00	42.6 AV	54.0	-11.4	1.10 H	7	38.5	4.1
5	10640.00	61.2 PK	74.0	-12.8	1.73 H	220	42.6	18.6
6	10640.00	47.1 AV	54.0	-6.9	1.73 H	220	28.5	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.2 PK			1.20 V	285	67.0	39.2
2	*5320.00	95.4 AV			1.20 V	285	56.2	39.2
3	5350.00	56.2 PK	74.0	-17.8	1.28 V	293	52.1	4.1
4	5350.00	43.0 AV	54.0	-11.0	1.28 V	293	38.9	4.1
5	10640.00	61.6 PK	74.0	-12.4	1.81 V	301	43.0	18.6
6	10640.00	47.6 AV	54.0	-6.4	1.81 V	301	29.0	18.6

Remarks:

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

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.3 PK	74.0	-17.7	1.03 H	314	51.8	4.5
2	5460.00	42.7 AV	54.0	-11.3	1.03 H	314	38.2	4.5
3	#5470.00	57.2 PK	68.2	-11.0	1.08 H	320	52.7	4.5
4	*5500.00	105.6 PK			1.05 H	317	65.9	39.7
5	*5500.00	95.8 AV			1.05 H	317	56.1	39.7
6	11000.00	61.8 PK	74.0	-12.2	1.81 H	267	42.5	19.3
7	11000.00	48.5 AV	54.0	-5.5	1.81 H	267	29.2	19.3
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	1.43 V	288	51.5	4.5
2	5460.00	42.5 AV	54.0	-11.5	1.43 V	288	38.0	4.5
3	#5470.00	57.0 PK	68.2	-11.2	1.44 V	299	52.5	4.5
4	*5500.00	103.7 PK			1.35 V	293	64.0	39.7
5	*5500.00	93.7 AV			1.35 V	293	54.0	39.7
6	11000.00	61.5 PK	74.0	-12.5	1.98 V	293	42.2	19.3
7	11000.00	48.3 AV	54.0	-5.7	1.98 V	293	29.0	19.3

Remarks:

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

CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	105.3 PK			1.01 H	316	65.6	39.7
2	*5580.00	95.4 AV			1.01 H	316	55.7	39.7
3	11160.00	61.2 PK	74.0	-12.8	1.82 H	243	42.6	18.6
4	11160.00	47.8 AV	54.0	-6.2	1.82 H	243	29.2	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	103.9 PK			1.59 V	321	64.2	39.7
2	*5580.00	93.4 AV			1.59 V	321	53.7	39.7
3	11160.00	60.9 PK	74.0	-13.1	1.93 V	293	42.3	18.6
4	11160.00	47.4 AV	54.0	-6.6	1.93 V	293	28.8	18.6

Remarks:

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

CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	104.8 PK			1.05 H	318	65.0	39.8
2	*5700.00	95.2 AV			1.05 H	318	55.4	39.8
3	#5725.00	57.2 PK	68.2	-11.0	1.07 H	320	52.5	4.7
4	11400.00	61.3 PK	74.0	-12.7	1.82 H	243	42.8	18.5
5	11400.00	47.4 AV	54.0	-6.6	1.82 H	243	28.9	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.3 PK			1.63 V	323	63.5	39.8
2	*5700.00	92.9 AV			1.63 V	323	53.1	39.8
3	#5725.00	56.8 PK	68.2	-11.4	1.55 V	320	52.1	4.7
4	11400.00	60.7 PK	74.0	-13.3	2.05 V	309	42.2	18.5
5	11400.00	46.8 AV	54.0	-7.2	2.05 V	309	28.3	18.5

Remarks:

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

CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.4 PK	74.0	-18.6	1.10 H	311	50.9	4.5
2	5460.00	42.3 AV	54.0	-11.7	1.10 H	311	37.8	4.5
3	#5470.00	55.6 PK	68.2	-12.6	1.05 H	320	51.1	4.5
4	*5720.00	104.8 PK			1.11 H	316	64.8	40.0
5	*5720.00	95.0 AV			1.11 H	316	55.0	40.0
6	#5825.00	56.7 PK	68.2	-11.5	1.02 H	319	51.5	5.2
7	11440.00	61.2 PK	74.0	-12.8	1.77 H	263	42.6	18.6
8	11440.00	47.6 AV	54.0	-6.4	1.77 H	263	29.0	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.0 PK	74.0	-19.0	1.47 V	319	50.5	4.5
2	5460.00	42.2 AV	54.0	-11.8	1.47 V	319	37.7	4.5
3	#5470.00	55.4 PK	68.2	-12.8	1.55 V	323	50.9	4.5
4	*5720.00	103.1 PK			1.62 V	318	63.1	40.0
5	*5720.00	92.9 AV			1.62 V	318	52.9	40.0
6	#5825.00	56.5 PK	68.2	-11.7	1.60 V	320	51.3	5.2
7	11440.00	60.8 PK	74.0	-13.2	1.93 V	301	42.2	18.6
8	11440.00	47.1 AV	54.0	-6.9	1.93 V	301	28.5	18.6

Remarks:

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

CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5616.67	54.8 PK	68.2	-13.4	1.01 H	319	50.3	4.5
2	*5745.00	106.8 PK			1.01 H	319	66.8	40.0
3	*5745.00	95.7 AV			1.01 H	319	55.7	40.0
4	#5980.77	56.0 PK	68.2	-12.2	1.01 H	319	50.6	5.4
5	11490.00	61.1 PK	74.0	-12.9	1.74 H	208	42.3	18.8
6	11490.00	47.4 AV	54.0	-6.6	1.74 H	208	28.6	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5603.85	54.8 PK	68.2	-13.4	1.20 V	291	50.3	4.5
2	*5745.00	104.0 PK			1.20 V	291	64.0	40.0
3	*5745.00	93.5 AV			1.20 V	291	53.5	40.0
4	#5996.79	56.8 PK	68.2	-11.4	1.20 V	291	51.4	5.4
5	11490.00	61.1 PK	74.0	-12.9	1.88 V	265	42.3	18.8
6	11490.00	47.3 AV	54.0	-6.7	1.88 V	265	28.5	18.8

Remarks:

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

CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5650.00	55.4 PK	68.2	-12.8	1.03 H	318	51.0	4.4
2	*5785.00	105.4 PK			1.03 H	318	65.2	40.2
3	*5785.00	95.4 AV			1.03 H	318	55.2	40.2
4	#5975.64	55.9 PK	68.2	-12.3	1.03 H	318	50.6	5.3
5	11570.00	61.6 PK	74.0	-12.4	1.61 H	231	43.1	18.5
6	11570.00	47.3 AV	54.0	-6.7	1.61 H	231	28.8	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5602.56	56.5 PK	68.2	-11.7	1.23 V	288	52.0	4.5
2	*5785.00	103.9 PK			1.23 V	288	63.7	40.2
3	*5785.00	93.4 AV			1.23 V	288	53.2	40.2
4	#5935.90	57.2 PK	68.2	-11.0	1.23 V	288	51.9	5.3
5	11570.00	61.4 PK	74.0	-12.6	1.85 V	259	42.9	18.5
6	11570.00	47.5 AV	54.0	-6.5	1.85 V	259	29.0	18.5

Remarks:

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

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5645.51	55.3 PK	68.2	-12.9	1.01 H	317	50.8	4.5
2	*5825.00	105.0 PK			1.01 H	317	64.6	40.4
3	*5825.00	95.2 AV			1.01 H	317	54.8	40.4
4	#5926.92	56.3 PK	68.2	-11.9	1.01 H	317	51.0	5.3
5	11650.00	61.6 PK	74.0	-12.4	1.74 H	222	43.1	18.5
6	11650.00	47.9 AV	54.0	-6.1	1.74 H	222	29.4	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5633.33	55.4 PK	68.2	-12.8	1.20 V	288	50.9	4.5
2	*5825.00	103.9 PK			1.20 V	288	63.5	40.4
3	*5825.00	93.6 AV			1.20 V	288	53.2	40.4
4	#5941.03	57.4 PK	68.2	-10.8	1.20 V	288	52.1	5.3
5	11650.00	61.7 PK	74.0	-12.3	1.91 V	269	43.2	18.5
6	11650.00	47.7 AV	54.0	-6.3	1.91 V	269	29.2	18.5

Remarks:

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

802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.8 PK	74.0	-10.2	1.19 H	2	59.7	4.1
2	5150.00	50.0 AV	54.0	-4.0	1.19 H	2	45.9	4.1
3	*5190.00	102.5 PK			1.23 H	357	63.2	39.3
4	*5190.00	92.8 AV			1.23 H	357	53.5	39.3
5	#10380.00	60.5 PK	68.2	-7.7	1.77 H	205	43.1	17.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	64.1 PK	74.0	-9.9	1.25 V	285	60.0	4.1
2	5150.00	50.5 AV	54.0	-3.5	1.25 V	285	46.4	4.1
3	*5190.00	103.6 PK			1.15 V	285	64.3	39.3
4	*5190.00	94.0 AV			1.15 V	285	54.7	39.3
5	#10380.00	60.9 PK	68.2	-7.3	1.81 V	297	43.5	17.4

Remarks:

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

CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	102.7 PK			1.10 H	2	63.6	39.1
2	*5230.00	93.1 AV			1.10 H	2	54.0	39.1
3	5350.00	56.1 PK	74.0	-17.9	1.23 H	1	52.0	4.1
4	5350.00	42.9 AV	54.0	-11.1	1.23 H	1	38.8	4.1
5	#10460.00	60.8 PK	68.2	-7.4	1.81 H	205	43.0	17.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	103.6 PK			1.25 V	283	64.5	39.1
2	*5230.00	94.1 AV			1.25 V	283	55.0	39.1
3	5350.00	56.4 PK	74.0	-17.6	1.21 V	289	52.3	4.1
4	5350.00	43.1 AV	54.0	-10.9	1.21 V	289	39.0	4.1
5	#10460.00	61.0 PK	68.2	-7.2	1.81 V	297	43.2	17.8

Remarks:

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

CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	55.1 PK	74.0	-18.9	1.11 H	7	51.0	4.1
2	5150.00	42.7 AV	54.0	-11.3	1.11 H	7	38.6	4.1
3	*5270.00	102.1 PK			1.09 H	6	63.0	39.1
4	*5270.00	92.4 AV			1.09 H	6	53.3	39.1
5	#10540.00	60.6 PK	68.2	-7.6	1.79 H	231	42.1	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.3 PK	74.0	-17.7	1.25 V	288	52.2	4.1
2	5150.00	43.2 AV	54.0	-10.8	1.25 V	288	39.1	4.1
3	*5270.00	102.9 PK			1.21 V	285	63.8	39.1
4	*5270.00	93.1 AV			1.21 V	285	54.0	39.1
5	#10540.00	61.1 PK	68.2	-7.1	1.93 V	320	42.6	18.5

Remarks:

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

CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.0 PK			1.13 H	5	63.8	39.2
2	*5310.00	92.7 AV			1.13 H	5	53.5	39.2
3	5350.00	58.2 PK	74.0	-15.8	1.20 H	10	54.1	4.1
4	5350.00	46.8 AV	54.0	-7.2	1.20 H	10	42.7	4.1
5	10620.00	60.8 PK	74.0	-13.2	1.70 H	209	42.0	18.8
6	10620.00	47.9 AV	54.0	-6.1	1.70 H	209	29.1	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.8 PK			1.22 V	284	64.6	39.2
2	*5310.00	93.5 AV			1.22 V	284	54.3	39.2
3	5350.00	60.1 PK	74.0	-13.9	1.24 V	284	56.0	4.1
4	5350.00	47.2 AV	54.0	-6.8	1.24 V	284	43.1	4.1
5	10620.00	61.3 PK	74.0	-12.7	1.82 V	310	42.5	18.8
6	10620.00	48.3 AV	54.0	-5.7	1.82 V	310	29.5	18.8

Remarks:

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

CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.5 PK	74.0	-14.5	1.05 H	316	55.0	4.5
2	5460.00	45.3 AV	54.0	-8.7	1.05 H	316	40.8	4.5
3	#5470.00	62.7 PK	68.2	-5.5	1.03 H	316	58.2	4.5
4	*5510.00	103.7 PK			1.00 H	318	64.0	39.7
5	*5510.00	93.5 AV			1.00 H	318	53.8	39.7
6	11020.00	61.8 PK	74.0	-12.2	1.91 H	263	42.7	19.1
7	11020.00	48.4 AV	54.0	-5.6	1.91 H	263	29.3	19.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.0 PK	74.0	-15.0	1.60 V	320	54.5	4.5
2	5460.00	44.5 AV	54.0	-9.5	1.60 V	320	40.0	4.5
3	#5470.00	61.6 PK	68.2	-6.6	1.61 V	323	57.1	4.5
4	*5510.00	102.1 PK			1.55 V	327	62.4	39.7
5	*5510.00	91.7 AV			1.55 V	327	52.0	39.7
6	11020.00	61.3 PK	74.0	-12.7	1.97 V	323	42.2	19.1
7	11020.00	47.9 AV	54.0	-6.1	1.97 V	323	28.8	19.1

Remarks:

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

CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	102.9 PK			1.02 H	316	63.2	39.7
2	*5550.00	93.4 AV			1.02 H	316	53.7	39.7
3	11100.00	61.8 PK	74.0	-12.2	1.74 H	253	43.2	18.6
4	11100.00	48.5 AV	54.0	-5.5	1.74 H	253	29.9	18.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	101.1 PK			1.55 V	323	61.4	39.7
2	*5550.00	91.7 AV			1.55 V	323	52.0	39.7
3	11100.00	61.4 PK	74.0	-12.6	2.00 V	331	42.8	18.6
4	11100.00	48.1 AV	54.0	-5.9	2.00 V	331	29.5	18.6

Remarks:

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

CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.3 PK			1.03 H	319	63.5	39.8
2	*5670.00	93.3 AV			1.03 H	319	53.5	39.8
3	#5725.00	56.6 PK	68.2	-11.6	1.11 H	323	51.9	4.7
4	11340.00	61.3 PK	74.0	-12.7	1.79 H	263	42.6	18.7
5	11340.00	48.2 AV	54.0	-5.8	1.79 H	263	29.5	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	101.4 PK			1.61 V	321	61.6	39.8
2	*5670.00	91.3 AV			1.61 V	321	51.5	39.8
3	#5725.00	55.7 PK	68.2	-12.5	1.52 V	319	51.0	4.7
4	11340.00	60.8 PK	74.0	-13.2	1.89 V	293	42.1	18.7
5	11340.00	47.7 AV	54.0	-6.3	1.89 V	293	29.0	18.7

Remarks:

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

CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.5 PK	74.0	-18.5	1.09 H	315	51.0	4.5
2	5460.00	42.5 AV	54.0	-11.5	1.09 H	315	38.0	4.5
3	#5470.00	55.6 PK	68.2	-12.6	1.05 H	313	51.1	4.5
4	*5710.00	103.3 PK			1.00 H	319	63.3	40.0
5	*5710.00	93.0 AV			1.00 H	319	53.0	40.0
6	#5825.00	56.6 PK	68.2	-11.6	1.13 H	323	51.4	5.2
7	11420.00	61.1 PK	74.0	-12.9	1.86 H	259	42.6	18.5
8	11420.00	48.1 AV	54.0	-5.9	1.86 H	259	29.6	18.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.3 PK	74.0	-18.7	1.51 V	320	50.8	4.5
2	5460.00	42.5 AV	54.0	-11.5	1.51 V	320	38.0	4.5
3	#5470.00	55.4 PK	68.2	-12.8	1.63 V	325	50.9	4.5
4	*5710.00	101.5 PK			1.59 V	328	61.5	40.0
5	*5710.00	91.2 AV			1.59 V	328	51.2	40.0
6	#5825.00	56.4 PK	68.2	-11.8	1.55 V	327	51.2	5.2
7	11420.00	60.5 PK	74.0	-13.5	1.91 V	293	42.0	18.5
8	11420.00	47.7 AV	54.0	-6.3	1.91 V	293	29.2	18.5

Remarks:

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

CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5647.44	55.3 PK	68.2	-12.9	1.00 H	321	50.8	4.5
2	*5755.00	103.3 PK			1.00 H	321	63.3	40.0
3	*5755.00	93.4 AV			1.00 H	321	53.4	40.0
4	#5994.23	57.1 PK	68.2	-11.1	1.00 H	321	51.7	5.4
5	11510.00	60.9 PK	74.0	-13.1	1.79 H	260	42.0	18.9
6	11510.00	48.7 AV	54.0	-5.3	1.79 H	260	29.8	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5610.90	55.6 PK	68.2	-12.6	1.23 V	292	51.1	4.5
2	*5755.00	101.0 PK			1.23 V	292	61.0	40.0
3	*5755.00	91.7 AV			1.23 V	292	51.7	40.0
4	#5948.08	56.7 PK	68.2	-11.5	1.23 V	292	51.4	5.3
5	11510.00	62.4 PK	74.0	-11.6	1.87 V	269	43.5	18.9
6	11510.00	48.4 AV	54.0	-5.6	1.87 V	269	29.5	18.9

Remarks:

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

CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.72	54.8 PK	68.2	-13.4	1.03 H	319	50.3	4.5
2	*5795.00	102.8 PK			1.03 H	319	62.5	40.3
3	*5795.00	92.7 AV			1.03 H	319	52.4	40.3
4	#5946.79	56.8 PK	68.2	-11.4	1.03 H	319	51.5	5.3
5	11590.00	60.9 PK	74.0	-13.1	1.85 H	255	42.5	18.4
6	11590.00	47.8 AV	54.0	-6.2	1.85 H	255	29.4	18.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5622.44	55.7 PK	68.2	-12.5	1.22 V	290	51.2	4.5
2	*5795.00	101.1 PK			1.22 V	290	60.8	40.3
3	*5795.00	91.6 AV			1.22 V	290	51.3	40.3
4	#5935.90	56.4 PK	68.2	-11.8	1.22 V	290	51.1	5.3
5	11590.00	61.1 PK	74.0	-12.9	1.77 V	265	42.7	18.4
6	11590.00	47.8 AV	54.0	-6.2	1.77 V	265	29.4	18.4

Remarks:

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

802.11ac (VHT80)

CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.0 PK	74.0	-14.0	1.29 H	357	55.9	4.1
2	5150.00	48.6 AV	54.0	-5.4	1.29 H	357	44.5	4.1
3	*5210.00	98.2 PK			1.22 H	2	59.0	39.2
4	*5210.00	88.7 AV			1.22 H	2	49.5	39.2
5	5350.00	56.1 PK	74.0	-17.9	1.20 H	1	52.0	4.1
6	5350.00	43.7 AV	54.0	-10.3	1.20 H	1	39.6	4.1
7	#10420.00	60.1 PK	68.2	-8.1	1.87 H	212	42.5	17.6
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.4 PK	74.0	-12.6	1.25 V	291	57.3	4.1
2	5150.00	49.7 AV	54.0	-4.3	1.25 V	291	45.6	4.1
3	*5210.00	99.5 PK			1.25 V	282	60.3	39.2
4	*5210.00	90.0 AV			1.25 V	282	50.8	39.2
5	5350.00	56.3 PK	74.0	-17.7	1.30 V	301	52.2	4.1
6	5350.00	43.8 AV	54.0	-10.2	1.30 V	301	39.7	4.1
7	#10420.00	60.2 PK	68.2	-8.0	1.57 V	302	42.6	17.6

Remarks:

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

CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.1 PK	74.0	-17.9	1.10 H	5	52.0	4.1
2	5150.00	44.1 AV	54.0	-9.9	1.10 H	5	40.0	4.1
3	*5290.00	98.6 PK			1.04 H	4	59.5	39.1
4	*5290.00	88.7 AV			1.04 H	4	49.6	39.1
5	5350.00	57.1 PK	74.0	-16.9	1.05 H	7	53.0	4.1
6	5350.00	45.8 AV	54.0	-8.2	1.05 H	7	41.7	4.1
7	#10580.00	61.7 PK	68.2	-6.5	1.72 H	203	42.9	18.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	56.2 PK	74.0	-17.8	1.23 V	285	52.1	4.1
2	5150.00	44.4 AV	54.0	-9.6	1.23 V	285	40.3	4.1
3	*5290.00	99.1 PK			1.15 V	286	60.0	39.1
4	*5290.00	89.7 AV			1.15 V	286	50.6	39.1
5	5350.00	57.9 PK	74.0	-16.1	1.14 V	288	53.8	4.1
6	5350.00	46.3 AV	54.0	-7.7	1.14 V	288	42.2	4.1
7	#10580.00	62.1 PK	68.2	-6.1	1.79 V	299	43.3	18.8

Remarks:

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

CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.0 PK	74.0	-15.0	1.11 H	320	54.5	4.5
2	5460.00	47.6 AV	54.0	-6.4	1.11 H	320	43.1	4.5
3	#5470.00	59.7 PK	68.2	-8.5	1.05 H	316	55.2	4.5
4	*5530.00	97.7 PK			1.02 H	318	58.0	39.7
5	*5530.00	89.1 AV			1.02 H	318	49.4	39.7
6	#5725.00	55.9 PK	68.2	-12.3	1.06 H	313	51.2	4.7
7	11060.00	61.9 PK	74.0	-12.1	1.71 H	249	43.0	18.9
8	11060.00	49.8 AV	54.0	-4.2	1.71 H	249	30.9	18.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.3 PK	74.0	-16.7	1.59 V	320	52.8	4.5
2	5460.00	45.6 AV	54.0	-8.4	1.59 V	320	41.1	4.5
3	#5470.00	58.1 PK	68.2	-10.1	1.53 V	323	53.6	4.5
4	*5530.00	95.7 PK			1.55 V	326	56.0	39.7
5	*5530.00	87.0 AV			1.55 V	326	47.3	39.7
6	#5725.00	55.7 PK	68.2	-12.5	1.50 V	320	51.0	4.7
7	11060.00	61.5 PK	74.0	-12.5	2.03 V	293	42.6	18.9
8	11060.00	49.1 AV	54.0	-4.9	2.03 V	293	30.2	18.9

Remarks:

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

CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.0 PK	74.0	-18.0	1.08 H	315	51.5	4.5
2	5460.00	43.4 AV	54.0	-10.6	1.08 H	315	38.9	4.5
3	#5470.00	56.1 PK	68.2	-12.1	1.10 H	320	51.6	4.5
4	*5610.00	97.8 PK			1.15 H	317	58.0	39.8
5	*5610.00	88.8 AV			1.15 H	317	49.0	39.8
6	#5725.00	56.5 PK	68.2	-11.7	1.03 H	319	51.8	4.7
7	11220.00	60.9 PK	74.0	-13.1	1.92 H	263	42.2	18.7
8	11220.00	49.0 AV	54.0	-5.0	1.92 H	263	30.3	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.6 PK	74.0	-18.4	1.63 V	330	51.1	4.5
2	5460.00	42.7 AV	54.0	-11.3	1.63 V	330	38.2	4.5
3	#5470.00	56.0 PK	68.2	-12.2	1.59 V	333	51.5	4.5
4	*5610.00	95.7 PK			1.58 V	323	55.9	39.8
5	*5610.00	86.6 AV			1.58 V	323	46.8	39.8
6	#5725.00	56.2 PK	68.2	-12.0	1.50 V	320	51.5	4.7
7	11220.00	60.6 PK	74.0	-13.4	2.05 V	295	41.9	18.7
8	11220.00	48.6 AV	54.0	-5.4	2.05 V	295	29.9	18.7

Remarks:

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

CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.9 PK	74.0	-18.1	1.10 H	320	51.4	4.5
2	5460.00	43.3 AV	54.0	-10.7	1.10 H	320	38.8	4.5
3	#5470.00	56.0 PK	68.2	-12.2	1.08 H	313	51.5	4.5
4	*5690.00	97.6 PK			1.11 H	320	57.8	39.8
5	*5690.00	88.6 AV			1.11 H	320	48.8	39.8
6	#5725.00	56.5 PK	68.2	-11.7	1.03 H	313	51.8	4.7
7	11380.00	60.5 PK	74.0	-13.5	1.77 H	253	42.0	18.5
8	11380.00	48.6 AV	54.0	-5.4	1.77 H	253	30.1	18.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.6 PK	74.0	-18.4	1.49 V	318	51.1	4.5
2	5460.00	43.0 AV	54.0	-11.0	1.49 V	318	38.5	4.5
3	#5470.00	55.8 PK	68.2	-12.4	1.60 V	321	51.3	4.5
4	*5690.00	95.7 PK			1.59 V	329	55.9	39.8
5	*5690.00	86.5 AV			1.59 V	329	46.7	39.8
6	#5725.00	56.0 PK	68.2	-12.2	1.55 V	325	51.3	4.7
7	11380.00	60.2 PK	74.0	-13.8	1.91 V	291	41.7	18.5
8	11380.00	48.2 AV	54.0	-5.8	1.91 V	291	29.7	18.5

Remarks:

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

CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5633.97	55.5 PK	68.2	-12.7	1.16 H	319	51.0	4.5
2	#5650.00	55.3 PK	68.2	-12.9	1.11 H	323	50.9	4.4
3	*5775.00	98.4 PK			1.16 H	319	58.3	40.1
4	*5775.00	89.0 AV			1.16 H	319	48.9	40.1
5	#5925.00	57.2 PK	68.2	-11.0	1.15 H	315	51.9	5.3
6	#5937.82	56.0 PK	68.2	-12.2	1.16 H	319	50.7	5.3
7	11550.00	60.9 PK	74.0	-13.1	1.91 H	239	42.2	18.7
8	11550.00	49.3 AV	54.0	-4.7	1.91 H	239	30.6	18.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5637.82	55.7 PK	68.2	-12.5	1.34 V	290	51.2	4.5
2	#5650.00	55.0 PK	68.2	-13.2	1.27 V	301	50.6	4.4
3	*5775.00	96.5 PK			1.34 V	290	56.4	40.1
4	*5775.00	87.6 AV			1.34 V	290	47.5	40.1
5	#5925.00	57.6 PK	68.2	-10.6	1.31 V	293	52.3	5.3
6	#5982.05	56.7 PK	68.2	-11.5	1.34 V	290	51.3	5.4
7	11550.00	61.1 PK	74.0	-12.9	1.77 V	259	42.4	18.7
8	11550.00	49.5 AV	54.0	-4.5	1.77 V	259	30.8	18.7

Remarks:

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

Below 1GHz Worst-Case Data:

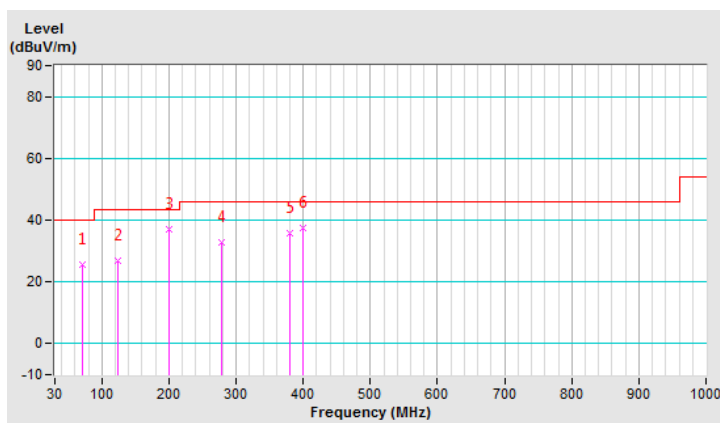
802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	70.77	25.7 QP	40.0	-14.3	1.50 H	283	36.6	-10.9
2	124.19	26.7 QP	43.5	-16.8	1.00 H	257	37.3	-10.6
3	200.10	37.0 QP	43.5	-6.5	2.00 H	51	48.7	-11.7
4	277.42	32.8 QP	46.0	-13.2	1.50 H	258	40.9	-8.1
5	380.04	35.7 QP	46.0	-10.3	1.00 H	72	40.7	-5.0
6	399.72	37.4 QP	46.0	-8.6	1.00 H	212	41.9	-4.5

Remarks:

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

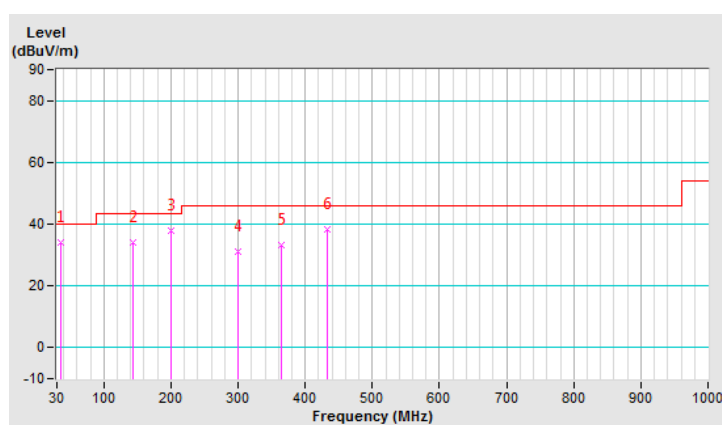


CHANNEL	TX Channel 38	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	35.62	34.1 QP	40.0	-5.9	1.50 V	36	44.2	-10.1
2	143.87	34.1 QP	43.5	-9.4	1.00 V	326	42.9	-8.8
3	200.10	37.9 QP	43.5	-5.6	1.00 V	31	49.6	-11.7
4	299.91	31.3 QP	46.0	-14.7	1.50 V	143	38.6	-7.3
5	364.58	33.2 QP	46.0	-12.8	1.00 V	267	38.7	-5.5
6	432.06	38.3 QP	46.0	-7.7	1.00 V	279	41.4	-3.1

Remarks:

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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 11, 2019	Dec. 10, 2020
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_Conc_ V7.3.7.4	NA	NA	NA

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

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-12040.

4.2.3 Test Procedures

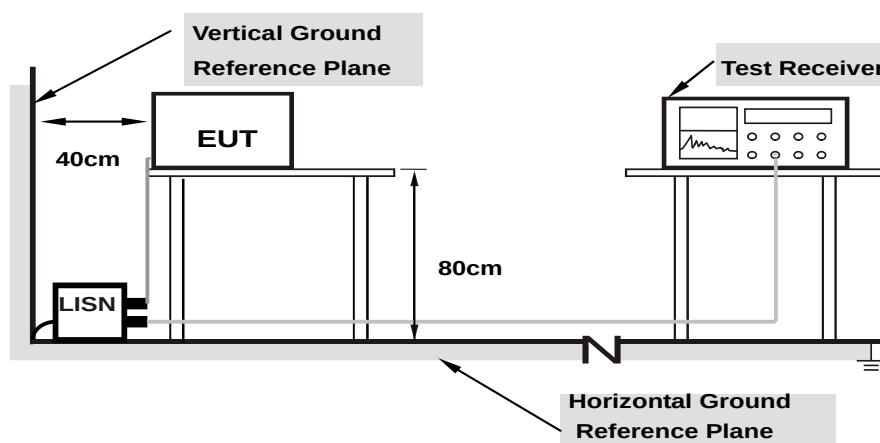
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Worst-case data:

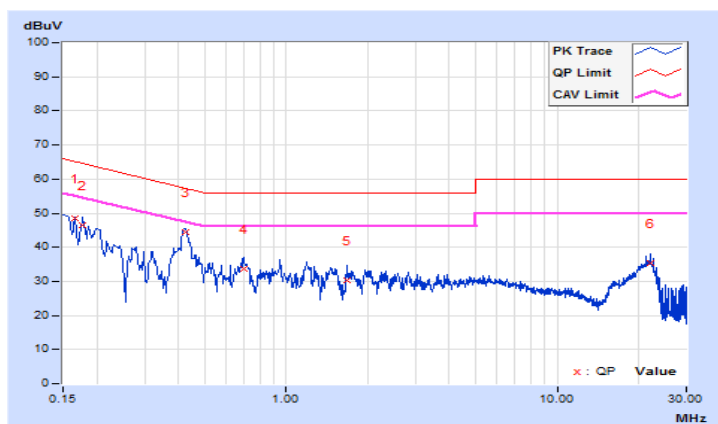
802.11n (HT40)

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	9.67	38.65	25.34	48.32	35.01	65.16	55.16	-16.84	-20.15
2	0.17708	9.66	36.87	22.75	46.53	32.41	64.62	54.62	-18.09	-22.21
3	0.42600	9.69	34.61	28.68	44.30	38.37	57.33	47.33	-13.03	-8.96
4	0.69400	9.71	24.01	18.28	33.72	27.99	56.00	46.00	-22.28	-18.01
5	1.68600	9.76	20.43	14.49	30.19	24.25	56.00	46.00	-25.81	-21.75
6	22.14200	9.99	25.49	20.89	35.48	30.88	60.00	50.00	-24.52	-19.12

Remarks:

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

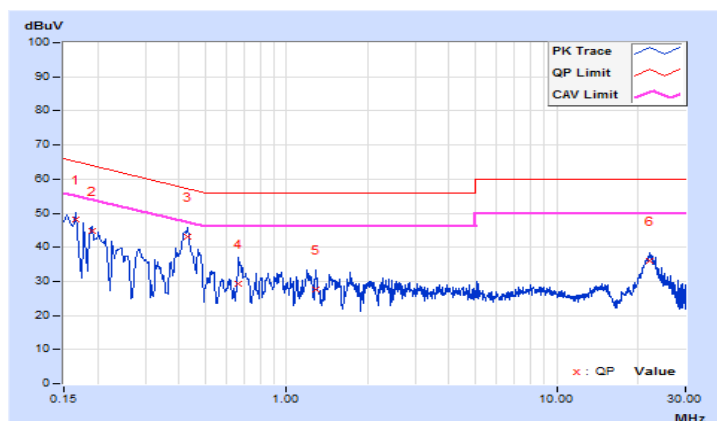


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16600	9.64	38.62	24.56	48.26	34.20	65.16	55.16	-16.90	-20.96
2	0.19000	9.64	35.10	21.29	44.74	30.93	64.04	54.04	-19.30	-23.11
3	0.43000	9.66	33.54	27.52	43.20	37.18	57.25	47.25	-14.05	-10.07
4	0.66200	9.68	19.60	12.25	29.28	21.93	56.00	46.00	-26.72	-24.07
5	1.29000	9.71	17.99	11.55	27.70	21.26	56.00	46.00	-28.30	-24.74
6	22.13800	10.07	25.80	20.83	35.87	30.90	60.00	50.00	-24.13	-19.10

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

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

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

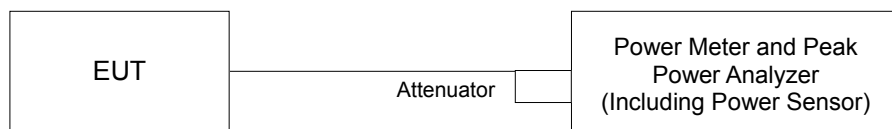
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

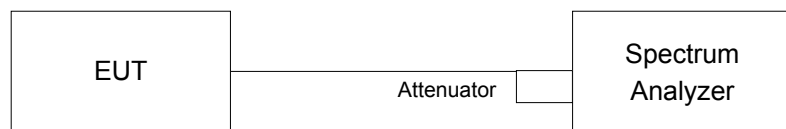
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



For 26dB Bandwidth



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 26dB Bandwidth

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- f. For channel aggregation (channel 138, 142, 144) measurement refer to KDB 789033 D02 Section III. CHANNEL AGGREGATION.

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				
36	5180	10.96	10.52	23.746	13.76	24.00	Pass
40	5200	10.80	10.35	22.862	13.59	24.00	Pass
48	5240	10.83	10.50	23.326	13.68	24.00	Pass
52	5260	10.62	10.35	22.374	13.50	23.76	Pass
60	5300	10.57	10.16	21.778	13.38	24.00	Pass
64	5320	10.34	10.23	21.358	13.30	24.00	Pass
100	5500	8.95	8.98	15.759	11.98	24.00	Pass
116	5580	9.22	8.93	16.172	12.09	23.75	Pass
140	5700	9.28	9.06	16.526	12.18	24.00	Pass
144	5720 (For U-NII-2C)	5.21	5.39	6.778	8.31	23.00	Pass
144	5720 (For U-NII-3)	-0.89	-0.80	1.647	2.17	30.00	Pass
149	5745	9.48	9.44	17.662	12.47	30.00	Pass
157	5785	9.42	9.33	17.320	12.39	30.00	Pass
165	5825	9.48	9.00	16.815	12.26	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(18.97) = 23.78 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.92) = 24.40 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.87) = 24.39 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.87) = 24.39 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(18.89) = 23.76 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.90) = 24.40 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.00) = 23.04 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(18.90) = 23.76 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.73) = 24.37 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.73) = 24.37 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.68) = 24.36 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(18.85) = 23.75 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.80) = 24.38 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.15) = 23.00 < 24\text{dBm}$

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	10.70	10.36	22.613	13.54	24.00	Pass
40	5200	10.84	10.61	23.642	13.74	24.00	Pass
48	5240	10.61	10.16	21.883	13.40	24.00	Pass
52	5260	10.40	10.02	21.011	13.22	23.84	Pass
60	5300	10.28	9.78	20.172	13.05	24.00	Pass
64	5320	9.91	9.98	19.749	12.96	24.00	Pass
100	5500	8.76	8.72	14.964	11.75	24.00	Pass
116	5580	9.09	8.81	15.713	11.96	23.84	Pass
140	5700	9.24	8.93	16.211	12.10	24.00	Pass
144	5720 (For U-NII-2C)	4.99	5.09	6.383	8.05	23.03	Pass
144	5720 (For U-NII-3)	-0.65	-0.59	1.734	2.39	30.00	Pass
149	5745	9.07	9.34	16.662	12.22	30.00	Pass
157	5785	9.26	9.11	16.580	12.20	30.00	Pass
165	5825	9.32	8.98	16.457	12.16	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(19.35) = 23.86 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(22.25) = 24.47 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(22.07) = 24.43 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(22.15) = 24.45 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(19.34) = 23.86 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(22.15) = 24.45 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5708.90) = 23.06 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(19.25) = 23.84 < 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.97) = 24.41 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.85) = 24.39 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.97) = 24.41 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(19.26) = 23.84 < 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.88) = 24.40 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.03) = 23.03 < 24\text{dBm}$

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	11.51	10.91	26.489	14.23	24.00	Pass
46	5230	11.45	10.71	25.740	14.11	24.00	Pass
54	5270	10.83	10.52	23.378	13.69	24.00	Pass
62	5310	10.71	10.35	22.615	13.54	24.00	Pass
102	5510	9.38	9.15	16.892	12.28	24.00	Pass
110	5550	9.36	9.49	17.522	12.44	24.00	Pass
134	5670	9.85	9.42	18.410	12.65	24.00	Pass
142	5710 (For U-NII-2C)	6.11	6.23	8.281	9.18	24.00	Pass
142	5710 (For U-NII-3)	-4.17	-4.02	0.779	-1.08	30.00	Pass
151	5755	9.63	9.49	18.080	12.57	30.00	Pass
159	5795	9.71	9.49	18.246	12.61	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(41.64) = 27.19 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.67) = 27.19 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.70) = 27.20 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.71) = 27.20 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.74) = 27.20 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.07) = 26.55 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.31) = 27.16 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(41.39) = 27.16 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(41.73) = 27.20 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.43) = 27.17 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.09) = 26.55 > 24\text{dBm}$

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	9.63	9.53	18.158	12.59	24.00	Pass
58	5290	9.39	9.21	17.026	12.31	24.00	Pass
106	5530	7.94	7.97	12.489	10.97	24.00	Pass
122	5610	8.27	8.00	13.024	11.15	24.00	Pass
138	5690 (For U-NII-2C)	5.46	5.81	7.326	8.65	24.00	Pass
138	5690 (For U-NII-3)	-8.82	-8.68	0.2667	-5.74	30.00	Pass
155	5775	8.31	7.99	13.071	11.16	30.00	Pass

Note:

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

Chain 0

1. $11\text{dBm} + 10\log(82.94) = 30.18 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(83.01) = 30.19 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(82.70) = 30.17 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5648.23) = 29.85 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(82.33) = 30.15 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.36) = 30.15 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(82.32) = 30.15 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5648.37) = 29.84 > 24\text{dBm}$

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.97	18.90
60	5300	21.92	21.73
64	5320	21.87	21.73
100	5500	21.87	21.68
116	5580	18.89	18.85
140	5700	21.90	21.80
144	5720 (For U-NII-2C)	16.00	15.85
144	5720 (For U-NII-3)	5.87	5.82

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	19.35	19.25
60	5300	22.25	21.97
64	5320	22.07	21.85
100	5500	22.15	21.97
116	5580	19.34	19.26
140	5700	22.15	21.88
144	5720 (For U-NII-2C)	16.10	15.97
144	5720 (For U-NII-3)	6.07	5.97

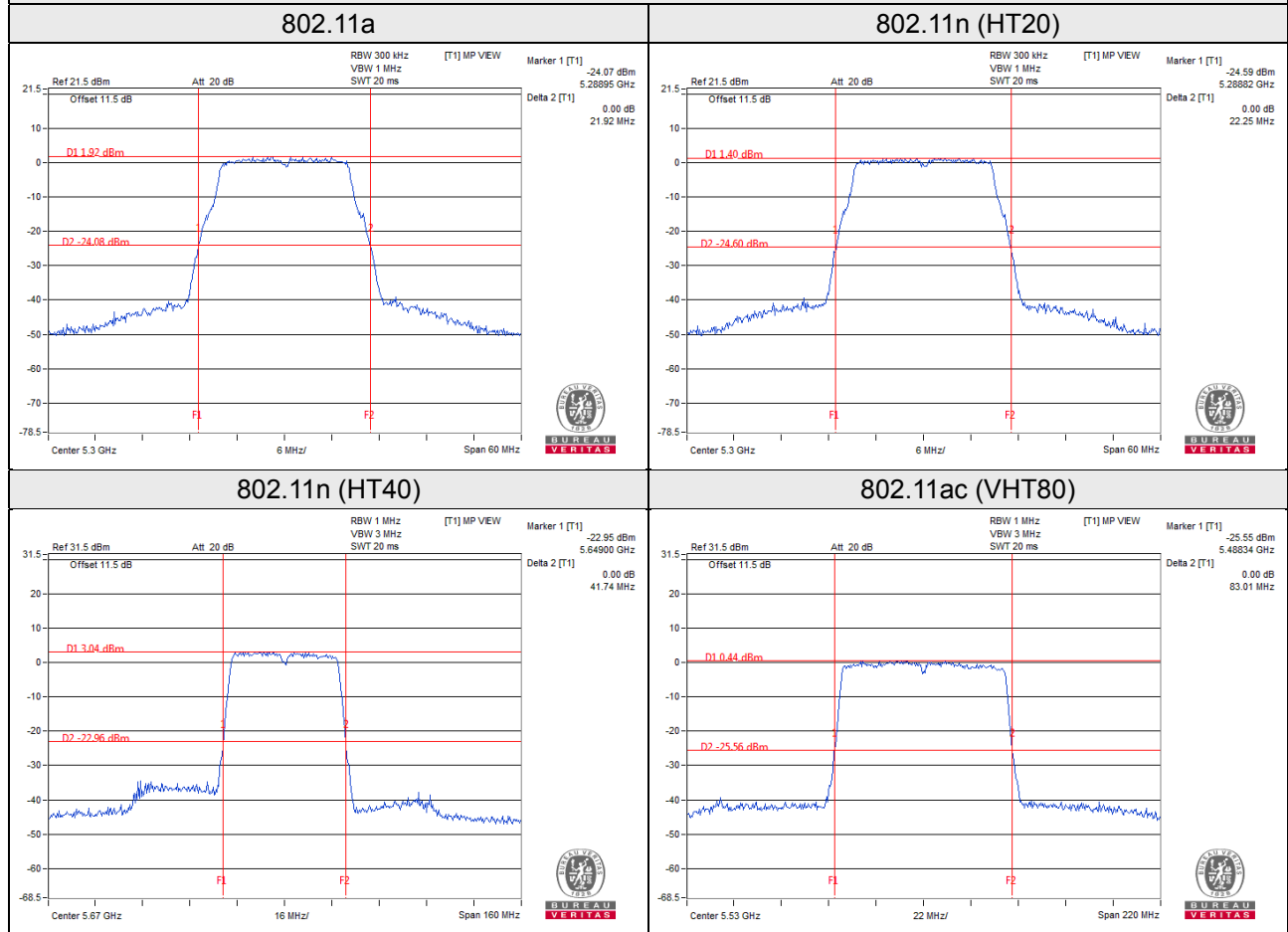
802.11n (HT40)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	41.64	41.31
62	5310	41.67	41.39
102	5510	41.70	41.73
110	5550	41.71	41.69
134	5670	41.74	41.43
142	5710 (For U-NII-2C)	35.93	35.91
142	5710 (For U-NII-3)	5.85	5.54

802.11ac (VHT80)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	82.94	82.33
106	5530	83.01	82.36
122	5610	82.70	82.32
138	5690 (For U-NII-2C)	76.77	76.63
138	5690 (For U-NII-3)	6.50	6.22

Spectrum Plot of Worst Value



EUT Maximum Conducted Power

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	13.50	22.374
5470~5725	12.18	16.526

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	13.22	21.011
5470~5725	12.10	16.211

802.11n (HT40)

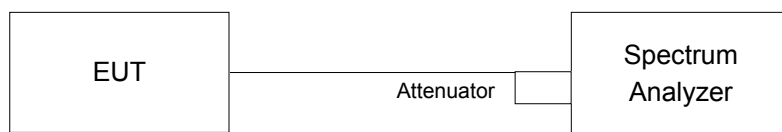
Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	13.69	23.378
5470~5725	12.65	18.410

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (dBm)	Output Power (mW)
5250~5350	12.31	17.026
5470~5725	11.15	13.024

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Result

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.04	16.92
40	5200	17.04	16.92
48	5240	16.56	16.56
52	5260	16.56	16.56
60	5300	16.92	16.92
64	5320	17.04	16.92
100	5500	17.04	17.04
116	5580	16.68	16.56
140	5700	17.04	16.92
144	5720 (For U-NII-2C)	13.40	13.40
144	5720 (For U-NII-3)	3.16	3.16
149	5745	16.56	16.56
157	5785	17.16	16.92
165	5825	16.92	17.04

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.12	18.00
40	5200	18.00	18.00
48	5240	17.52	17.52
52	5260	17.40	17.52
60	5300	18.24	18.12
64	5320	18.12	18.00
100	5500	18.12	18.12
116	5580	17.52	17.52
140	5700	18.00	18.12
144	5720 (For U-NII-2C)	14.00	14.00
144	5720 (For U-NII-3)	3.76	3.76
149	5745	17.40	17.52
157	5785	18.12	18.00
165	5825	18.00	18.00

802.11n (HT40)

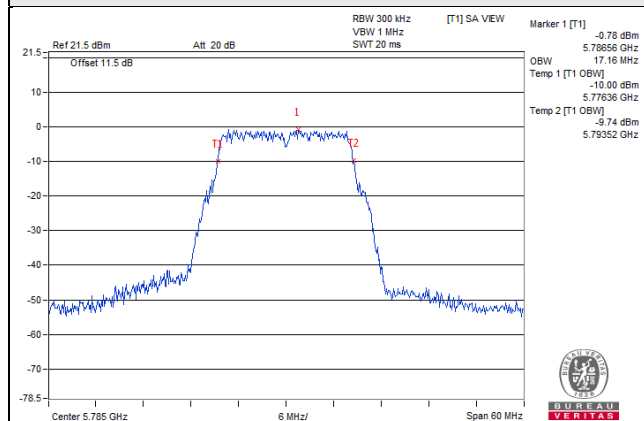
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.72	36.60
46	5230	36.60	36.72
54	5270	36.72	36.72
62	5310	36.72	36.72
102	5510	36.60	36.60
110	5550	36.60	36.72
134	5670	36.60	36.60
142	5710 (For U-NII-2C)	33.48	33.48
142	5710 (For U-NII-3)	3.24	3.24
151	5755	36.72	36.72
159	5795	36.60	36.60

802.11ac (VHT80)

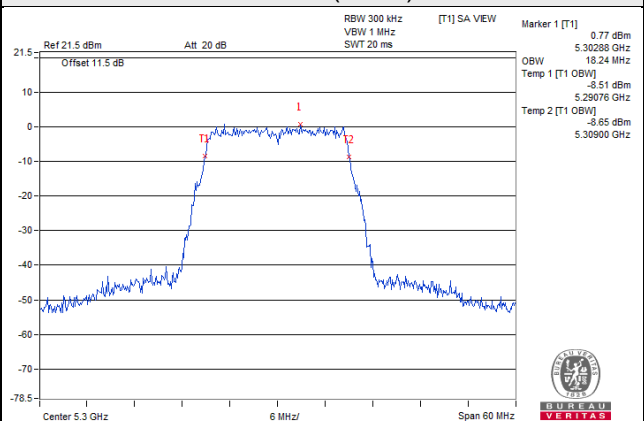
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	76.08
58	5290	76.08	76.08
106	5530	75.84	75.84
122	5610	76.08	76.08
138	5690 (For U-NII-2C)	73.16	73.40
138	5690 (For U-NII-3)	2.68	2.68
155	5775	75.84	75.84

Spectrum Plot of Worst Value

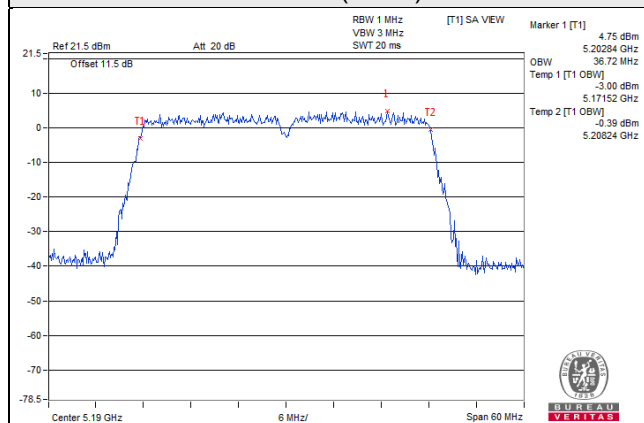
802.11a



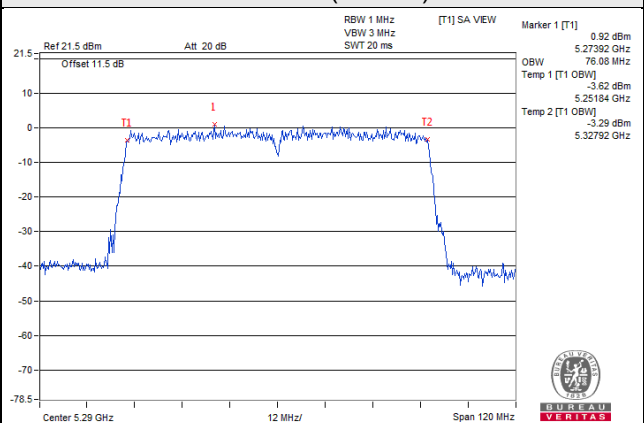
802.11n (HT20)



802.11n (HT40)

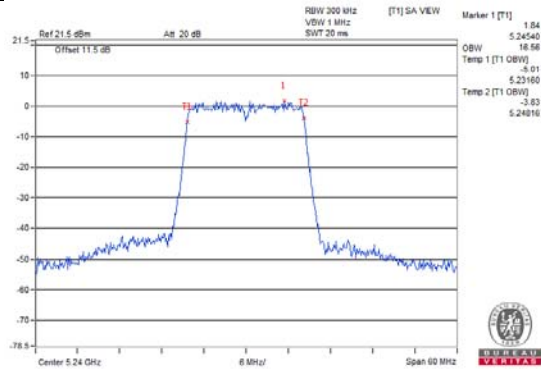


802.11ac (VHT80)

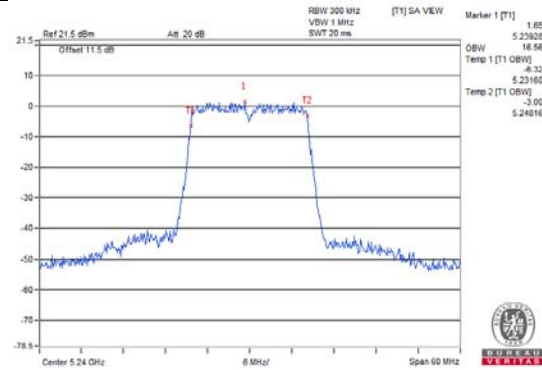


Spectrum Plot for near By DFS Band

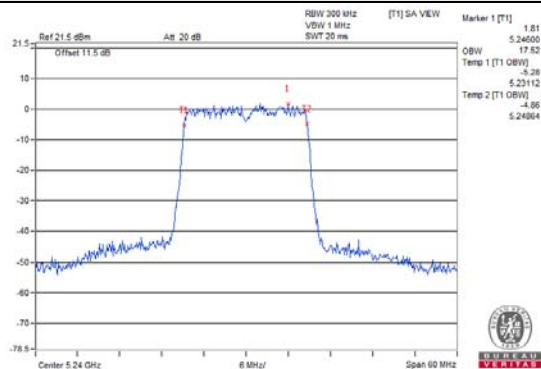
802.11a / Chain 0 / CH 48



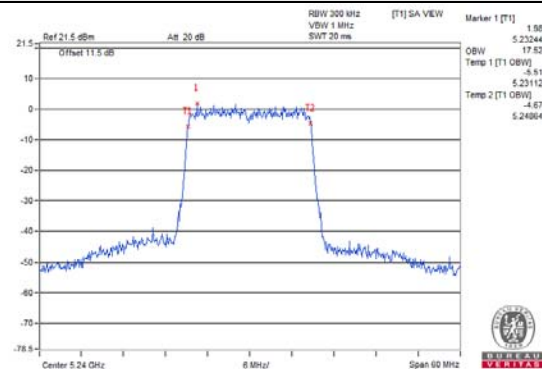
802.11a / Chain 1 / CH 48



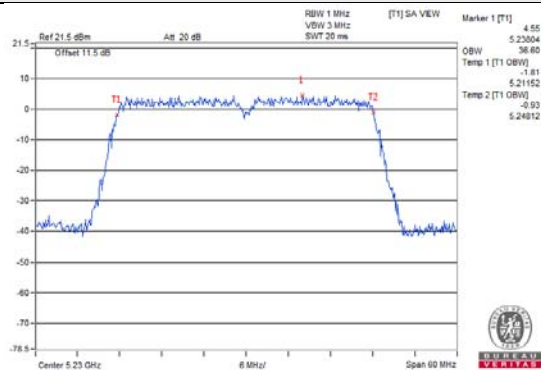
802.11n (HT20) / Chain 0 / CH 48



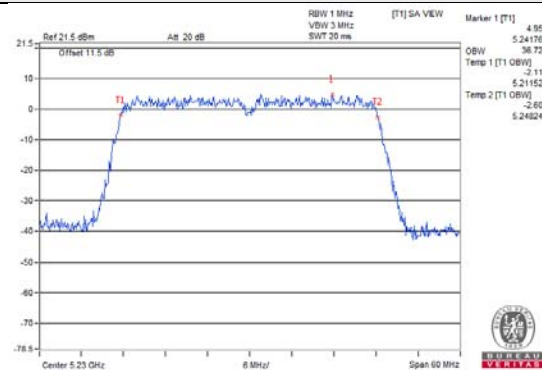
802.11n (HT20) / Chain 1 / CH 48



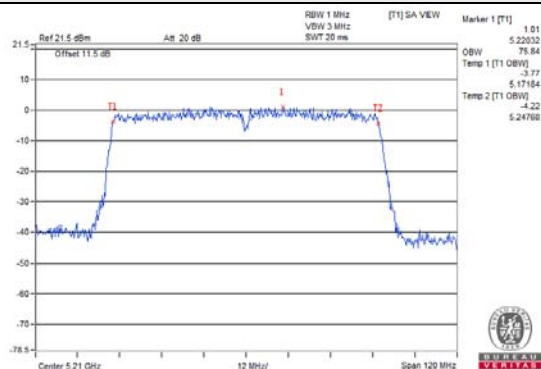
802.11n (HT40) / Chain 0 / CH 46



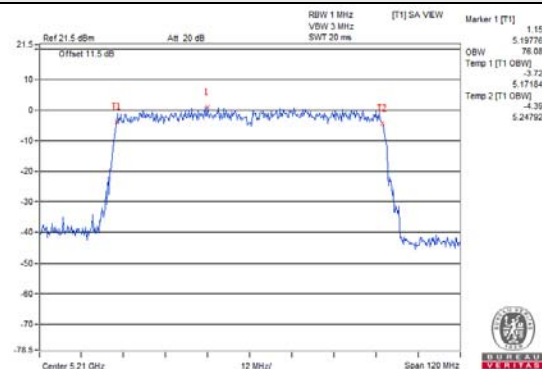
802.11n (HT40) / Chain 1 / CH 46



802.11ac (VHT80) / Chain 0 / CH 42

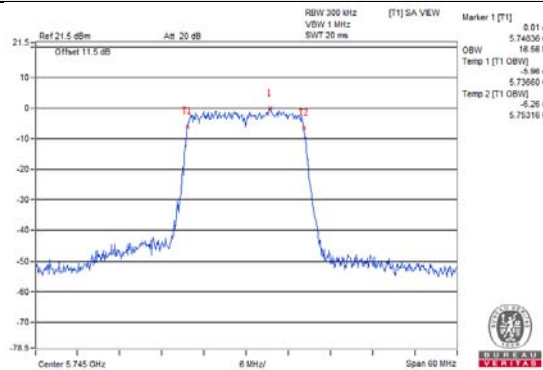


802.11ac (VHT80) / Chain 1 / CH 42

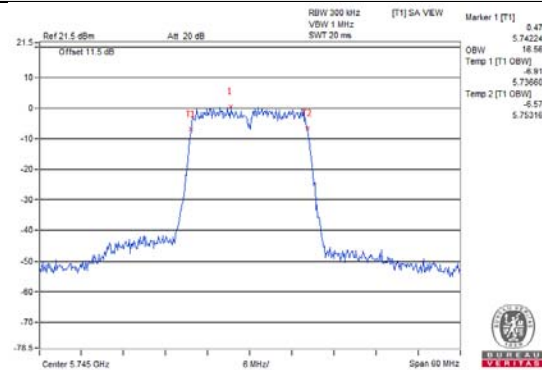


Spectrum Plot for near By DFS Band

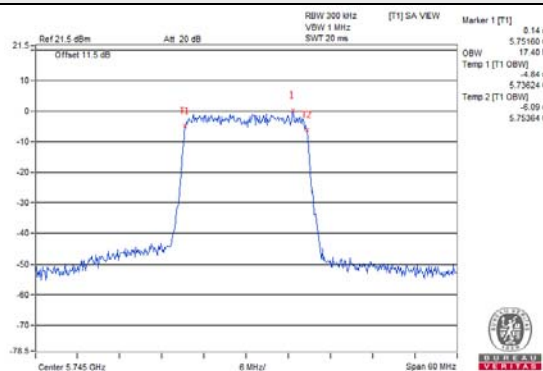
802.11a / Chain 0 / CH 149



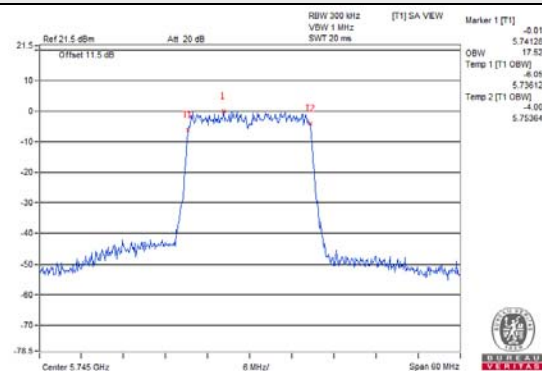
802.11a / Chain 1 / CH 149



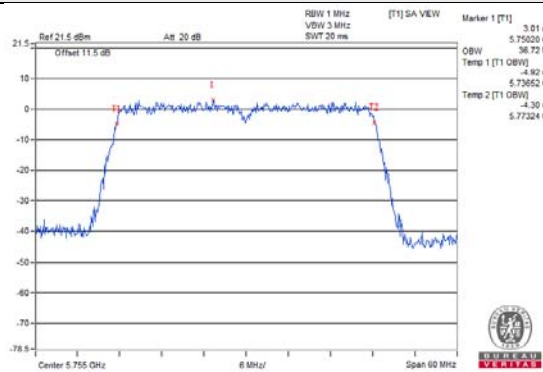
802.11n (HT20) / Chain 0 / CH 149



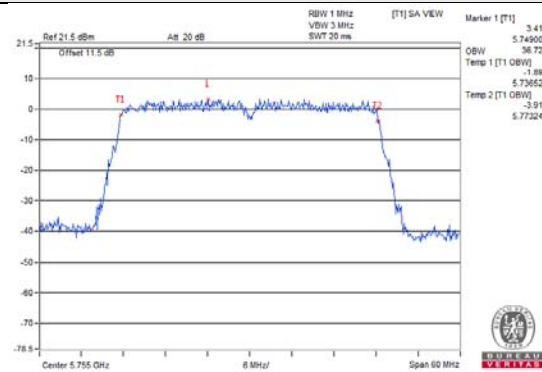
802.11n (HT20) / Chain 1 / CH 149



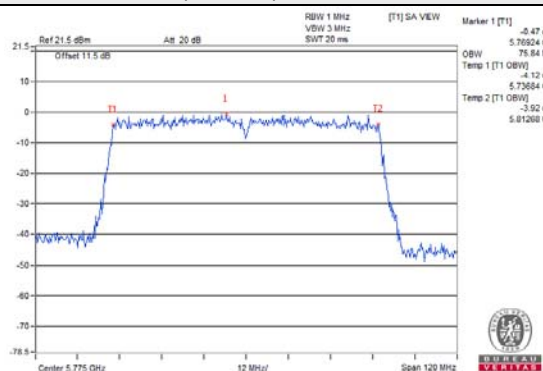
802.11n (HT40) / Chain 0 / CH 151



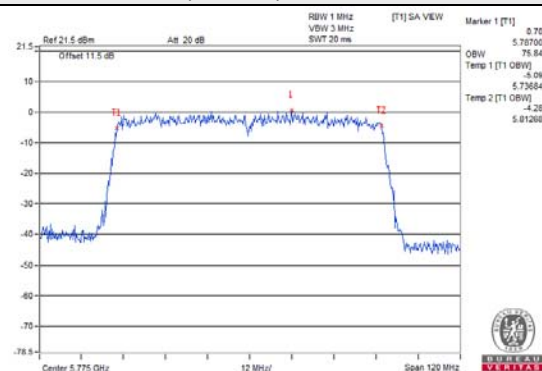
802.11n (HT40) / Chain 1 / CH 151



802.11ac (VHT80) / Chain 0 / CH 155



802.11ac (VHT80) / Chain 1 / CH 155

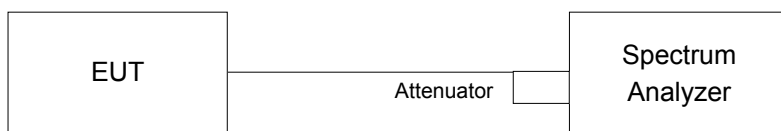


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedures

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

Duty cycle of test signal is > 98%

Using method SA-1

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

Duty cycle of test signal is < 98%

Using method SA-2

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

For U-NII-3 band:

Duty cycle of test signal is > 98%

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

Duty cycle of test signal is < 98%

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

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

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	-2.81	-3.33	0.09	-0.05	11.00	Pass
40	5200	-2.78	-3.15	0.09	0.05	11.00	Pass
48	5240	-2.58	-2.91	0.09	0.27	11.00	Pass
52	5260	-3.24	-2.95	0.09	-0.08	11.00	Pass
60	5300	-3.43	-3.46	0.09	-0.43	11.00	Pass
64	5320	-3.60	-3.37	0.09	-0.47	11.00	Pass
100	5500	-4.09	-3.63	0.09	-0.84	11.00	Pass
116	5580	-3.82	-3.05	0.09	-0.41	11.00	Pass
140	5700	-4.98	-4.61	0.09	-1.78	11.00	Pass
144	5720	-4.85	-4.62	0.09	-1.72	11.00	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. Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	-3.16	-3.63	-0.38	11.00	Pass
40	5200	-3.08	-3.56	-0.30	11.00	Pass
48	5240	-2.94	-3.17	-0.04	11.00	Pass
52	5260	-3.43	-3.45	-0.43	11.00	Pass
60	5300	-3.77	-3.59	-0.67	11.00	Pass
64	5320	-3.79	-3.74	-0.75	11.00	Pass
100	5500	-4.57	-4.04	-1.29	11.00	Pass
116	5580	-4.32	-3.73	-1.00	11.00	Pass
140	5700	-5.29	-5.23	-2.25	11.00	Pass
144	5720	-5.11	-5.05	-2.07	11.00	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. Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-5.56	-5.92	0.10	-2.73	11.00	Pass
46	5230	-5.43	-5.86	0.10	-2.63	11.00	Pass
54	5270	-6.03	-5.91	0.10	-2.96	11.00	Pass
62	5310	-6.22	-6.09	0.10	-3.14	11.00	Pass
102	5510	-6.99	-6.39	0.10	-3.67	11.00	Pass
110	5550	-6.84	-6.30	0.10	-3.55	11.00	Pass
134	5670	-7.83	-7.35	0.10	-4.57	11.00	Pass
142	5710	-7.63	-7.53	0.10	-4.57	11.00	Pass

Note:

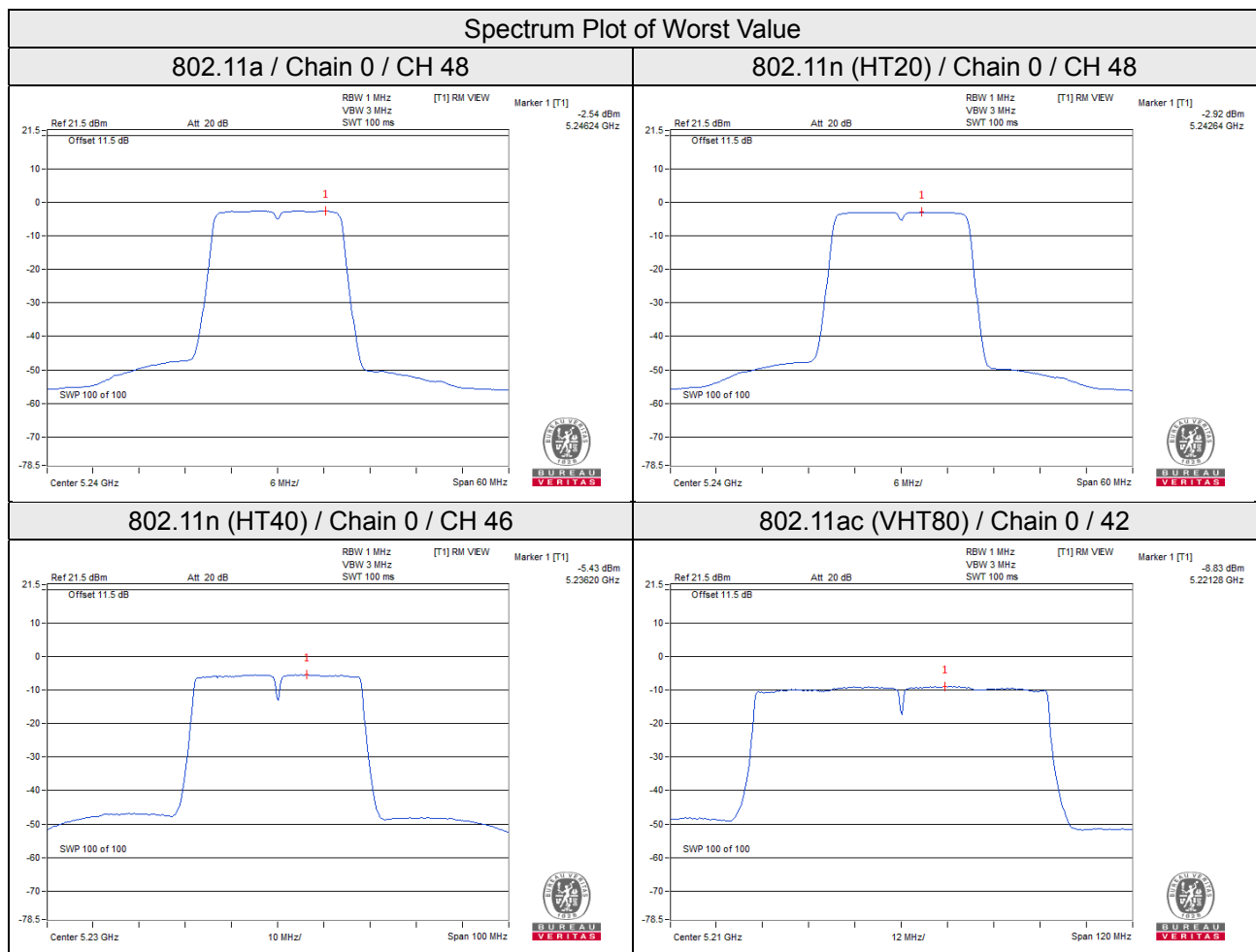
1. Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-8.83	-9.19	0.48	-6.00	11.00	Pass
58	5290	-9.51	-9.44	0.48	-6.46	11.00	Pass
106	5530	-10.40	-9.73	0.48	-7.04	11.00	Pass
122	5610	-10.25	-9.90	0.48	-7.06	11.00	Pass
138	5690	-11.19	-10.92	0.48	-8.04	11.00	Pass

Note:

- Method E) 2) a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
- Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720	-11.95	-9.73	3.01	0.09	-6.63	30.00	Pass
	149	5745	-11.34	-9.12	3.01	0.09	-6.02	30.00	Pass
	157	5785	-11.3	-9.08	3.01	0.09	-5.98	30.00	Pass
	165	5825	-11.02	-8.8	3.01	0.09	-5.70	30.00	Pass
1	144	5720	-12.01	-9.79	3.01	0.09	-6.69	30.00	Pass
	149	5745	-10.86	-8.64	3.01	0.09	-5.54	30.00	Pass
	157	5785	-10.83	-8.61	3.01	0.09	-5.51	30.00	Pass
	165	5825	-10.79	-8.57	3.01	0.09	-5.47	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 2.23dBi + 10log(2) = 5.24dBi < 6dBi, so the power spectral density limit is not reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	144	5720	-12.48	-10.26	3.01	-7.25	30.00	Pass
	149	5745	-12.03	-9.81	3.01	-6.80	30.00	Pass
	157	5785	-11.83	-9.61	3.01	-6.60	30.00	Pass
	165	5825	-11.81	-9.59	3.01	-6.58	30.00	Pass
1	144	5720	-12.53	-10.31	3.01	-7.30	30.00	Pass
	149	5745	-11.68	-9.46	3.01	-6.45	30.00	Pass
	157	5785	-11.63	-9.41	3.01	-6.40	30.00	Pass
	165	5825	-11.49	-9.27	3.01	-6.26	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add 10 log (N_{ANT}) dB.
2. Directional gain = 2.23dBi + 10log(2) = 5.24dBi < 6dBi, so the power spectral density limit is not reduced.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710	-15.42	-13.2	3.01	0.10	-10.09	30.00	Pass
	151	5755	-14.87	-12.65	3.01	0.10	-9.54	30.00	Pass
	159	5795	-14.68	-12.46	3.01	0.10	-9.35	30.00	Pass
1	142	5710	-15.53	-13.31	3.01	0.10	-10.20	30.00	Pass
	151	5755	-14.37	-12.15	3.01	0.10	-9.04	30.00	Pass
	159	5795	-14.39	-12.17	3.01	0.10	-9.06	30.00	Pass

Note:

1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

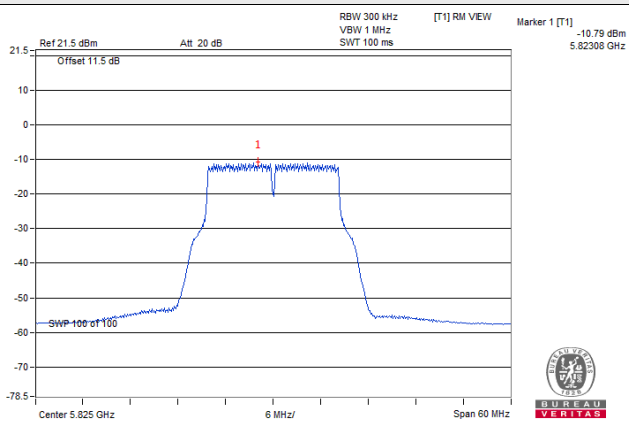
TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690	-20.41	-18.19	3.01	0.48	-14.70	30.00	Pass
	155	5775	-18.16	-15.94	3.01	0.48	-12.45	30.00	Pass
1	138	5690	-20.17	-17.95	3.01	0.48	-14.46	30.00	Pass
	155	5775	-17.89	-15.67	3.01	0.48	-12.18	30.00	Pass

Note:

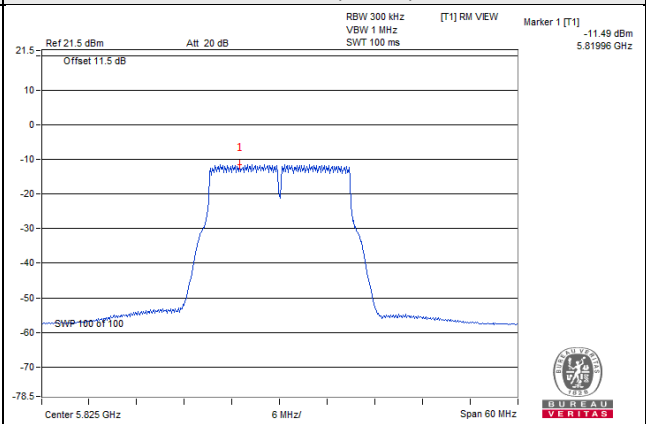
1. Method E) 2) c) of power density measurement of KDB 662911 is using for calculating total power density, Measure and add $10 \log (N_{ANT})$ dB.
2. Directional gain = $2.23\text{dBi} + 10\log(2) = 5.24\text{dBi} < 6\text{dBi}$, so the power spectral density limit is not reduced.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

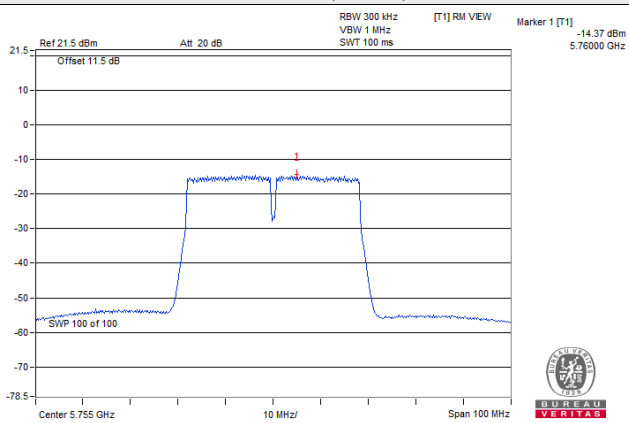
802.11a



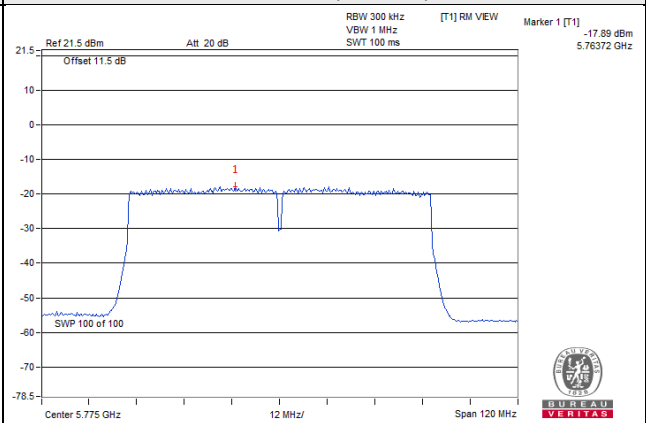
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

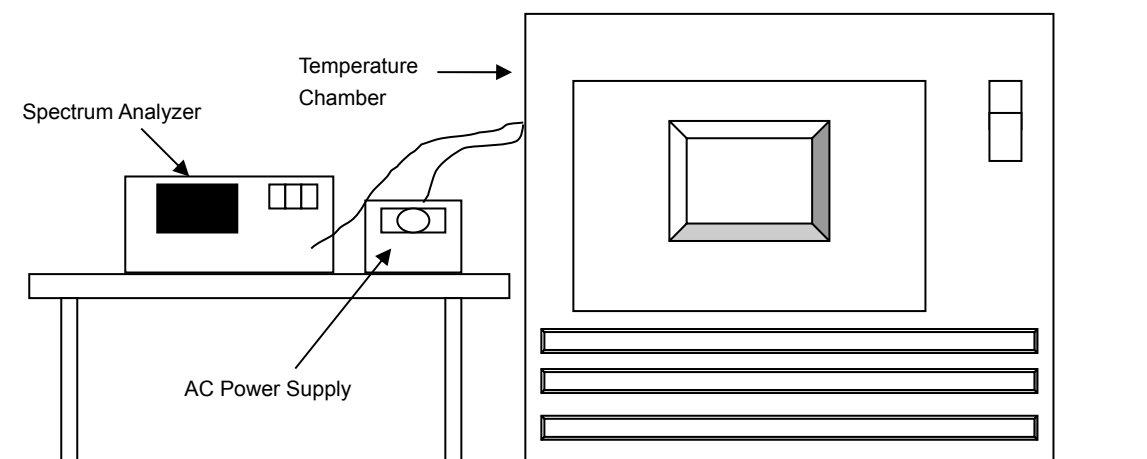


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100040	Sep. 23, 2019	Sep. 22, 2020
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 03, 2019	Jun. 02, 2020
Digital Multimeter Fluke	87-III	70360742	Jun. 28, 2019	Jun. 27, 2020
AC Power Supply Extech	CFW-105	E000603	NA	NA

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

4.6.4 Test Procedure

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

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. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
50	120	5180.0167	Pass	5180.0181	Pass	5180.0216	Pass	5180.0175	Pass
40	120	5180.0109	Pass	5180.0071	Pass	5180.0101	Pass	5180.0098	Pass
30	120	5179.9754	Pass	5179.9791	Pass	5179.9779	Pass	5179.979	Pass
20	120	5179.9798	Pass	5179.9803	Pass	5179.9767	Pass	5179.9757	Pass
10	120	5179.9831	Pass	5179.9838	Pass	5179.9869	Pass	5179.9858	Pass
0	120	5179.9965	Pass	5179.9981	Pass	5179.9975	Pass	5179.9966	Pass
-10	120	5179.9976	Pass	5179.9992	Pass	5180.0013	Pass	5180.0015	Pass
-20	120	5179.9918	Pass	5179.9931	Pass	5179.9954	Pass	5179.9923	Pass
-30	120	5180.0028	Pass	5180.0032	Pass	5180.0021	Pass	5180.0038	Pass

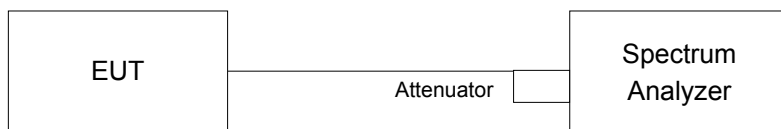
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	138	5179.9802	Pass	5179.9802	Pass	5179.9777	Pass	5179.9754	Pass
	120	5179.9798	Pass	5179.9803	Pass	5179.9767	Pass	5179.9757	Pass
	102	5179.9807	Pass	5179.9806	Pass	5179.9768	Pass	5179.9752	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (For U-NII-3)	5720	3.14	3.14	0.5	Pass
149	5745	16.42	16.42	0.5	Pass
157	5785	16.42	16.43	0.5	Pass
165	5825	16.42	16.42	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (For U-NII-3)	5720	3.77	3.77	0.5	Pass
149	5745	17.12	17.12	0.5	Pass
157	5785	17.66	17.65	0.5	Pass
165	5825	17.66	17.66	0.5	Pass

802.11n (HT40)

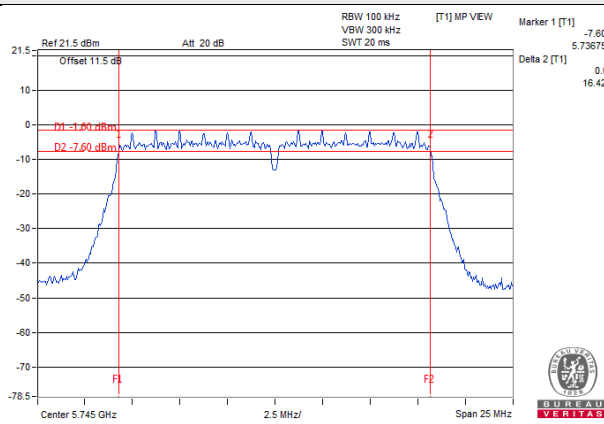
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142 (For U-NII-3)	5710	3.19	3.18	0.5	Pass
151	5755	36.47	36.48	0.5	Pass
159	5795	36.44	36.45	0.5	Pass

802.11ac (VHT80)

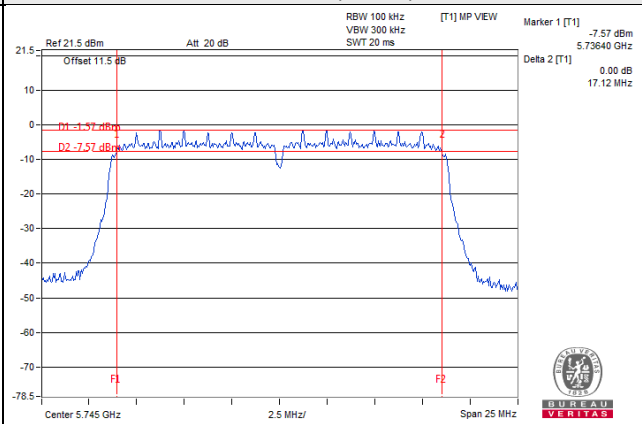
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138 (For U-NII-3)	5690	3.02	3.19	0.5	Pass
155	5775	76.08	76.44	0.5	Pass

Spectrum Plot of Worst Value

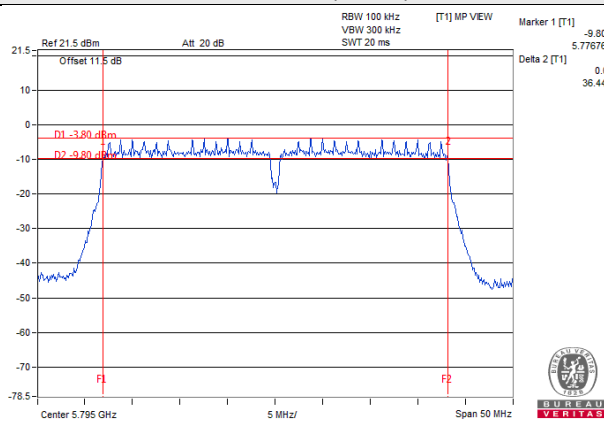
802.11a



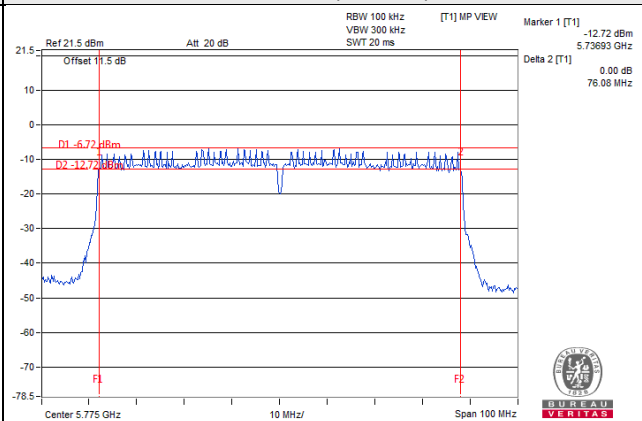
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



Note:

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

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

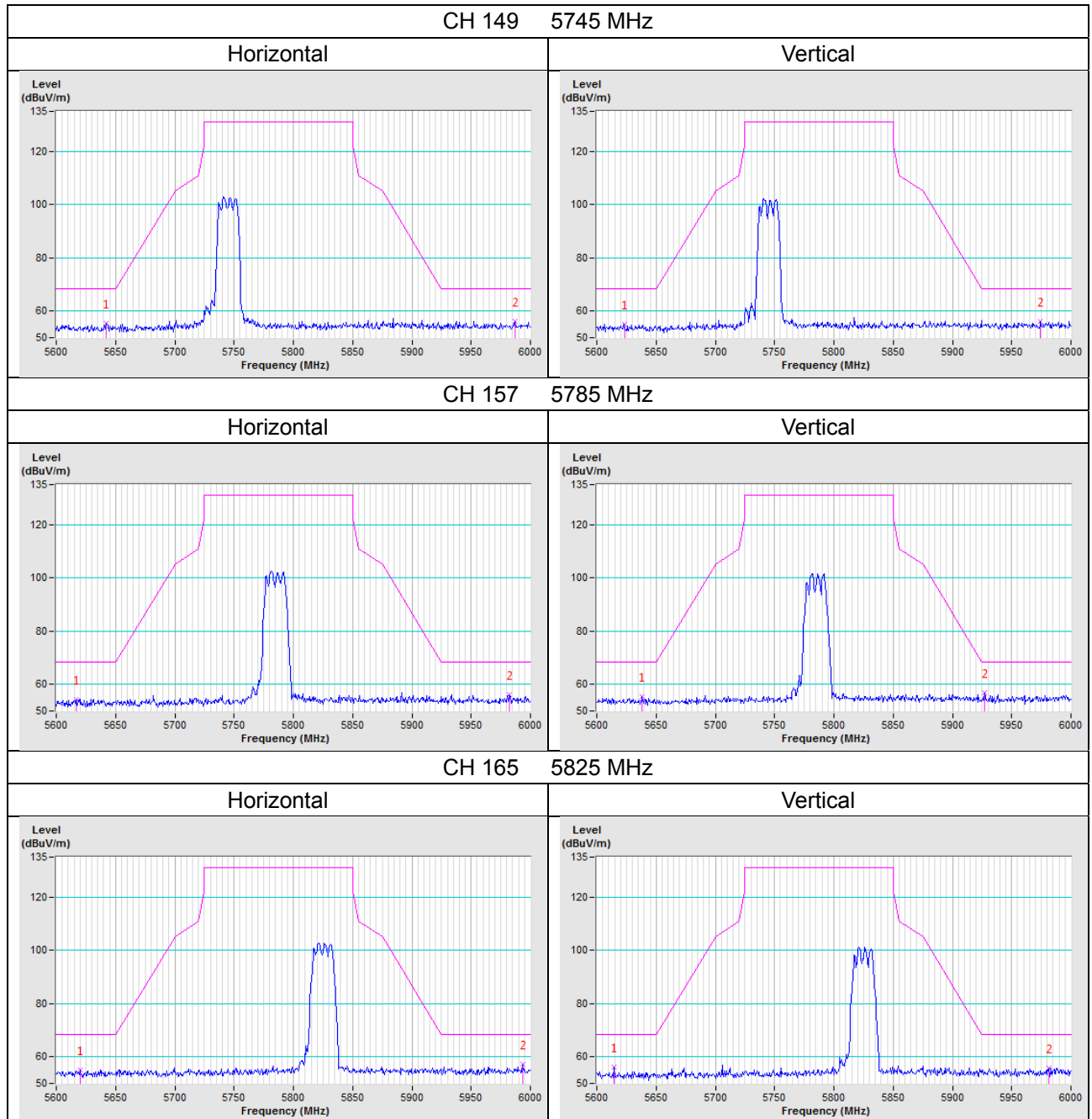
For CH138 (UNII-3 Band): The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5 Pictures of Test Arrangements

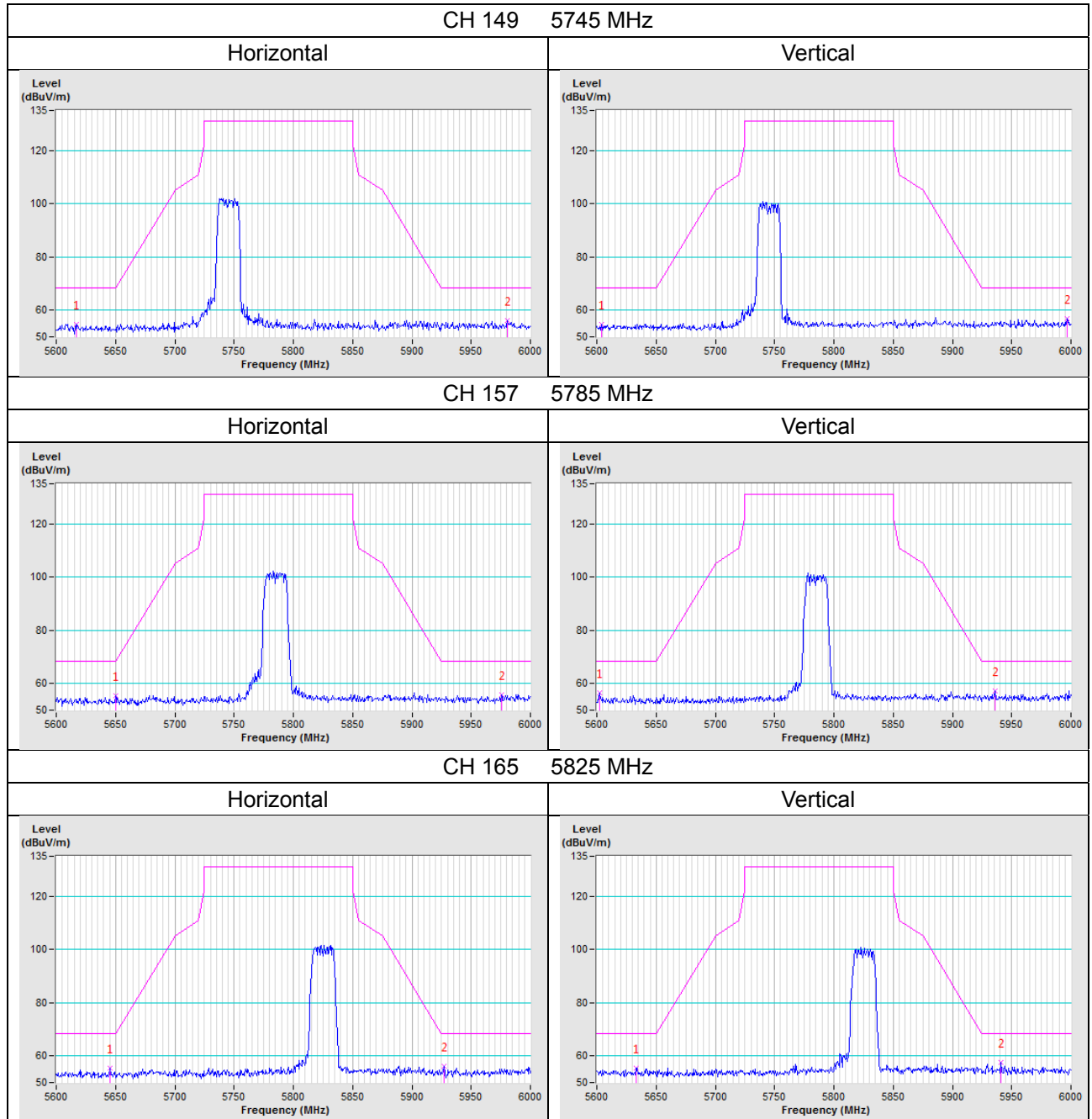
Please refer to the attached file (Test Setup Photo).

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

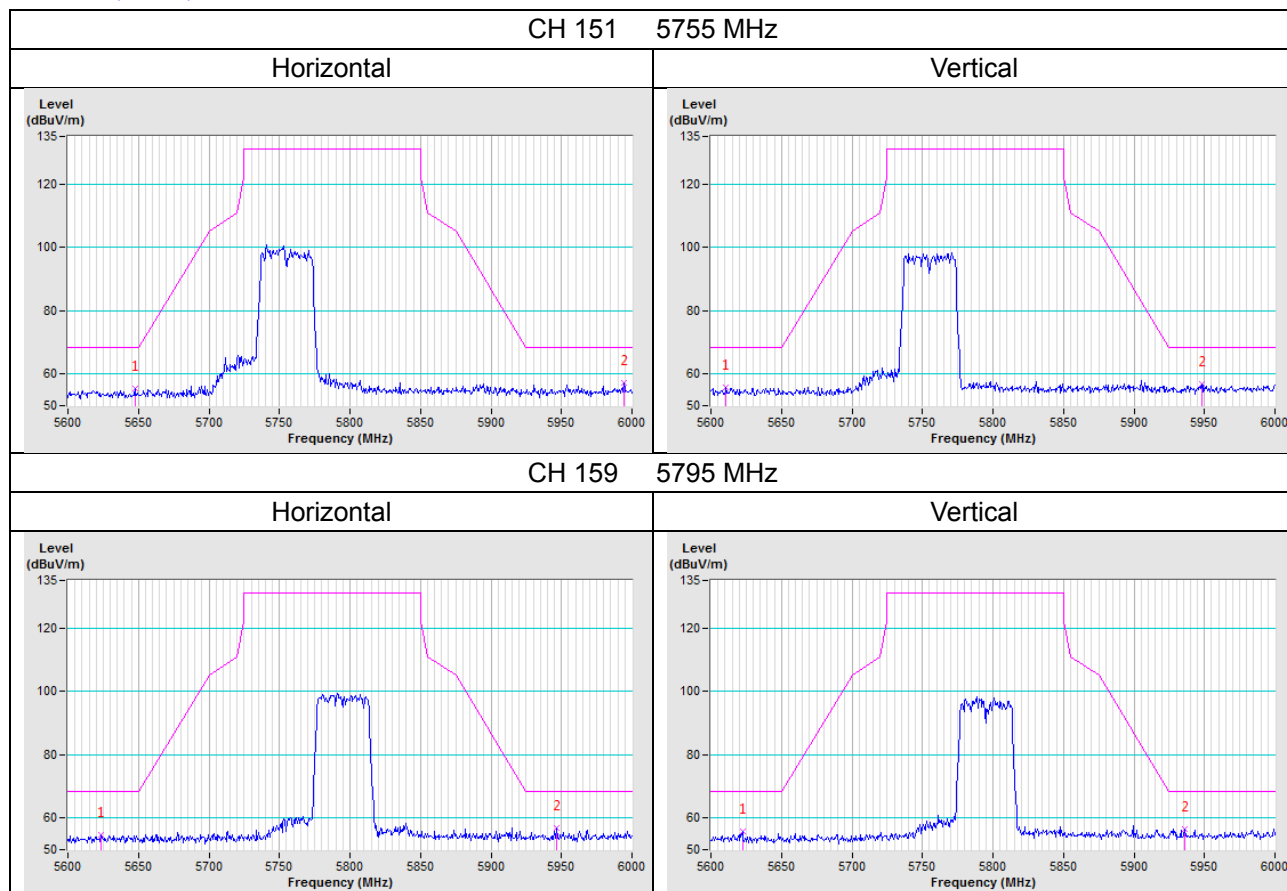
802.11a



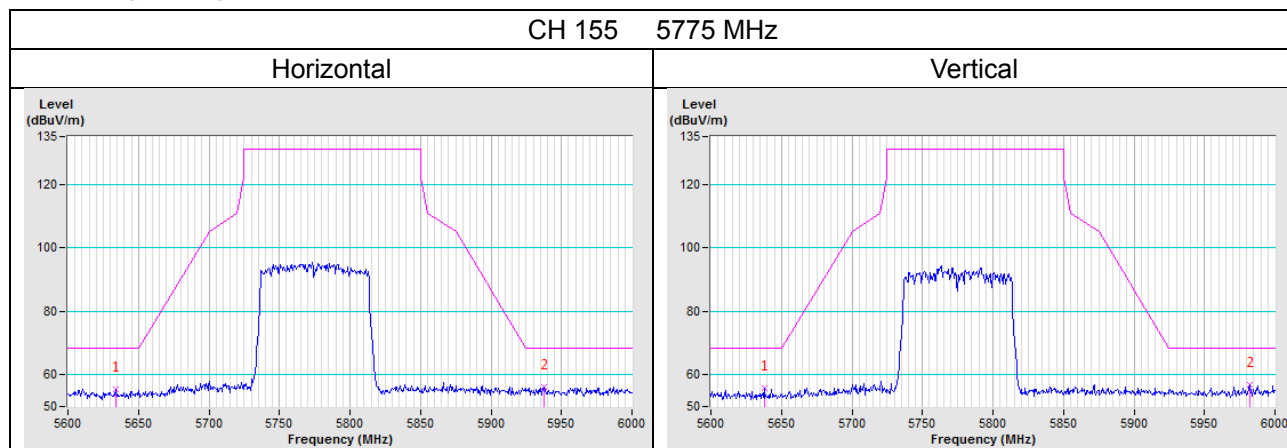
802.11n (HT20)



802.11n (HT40)

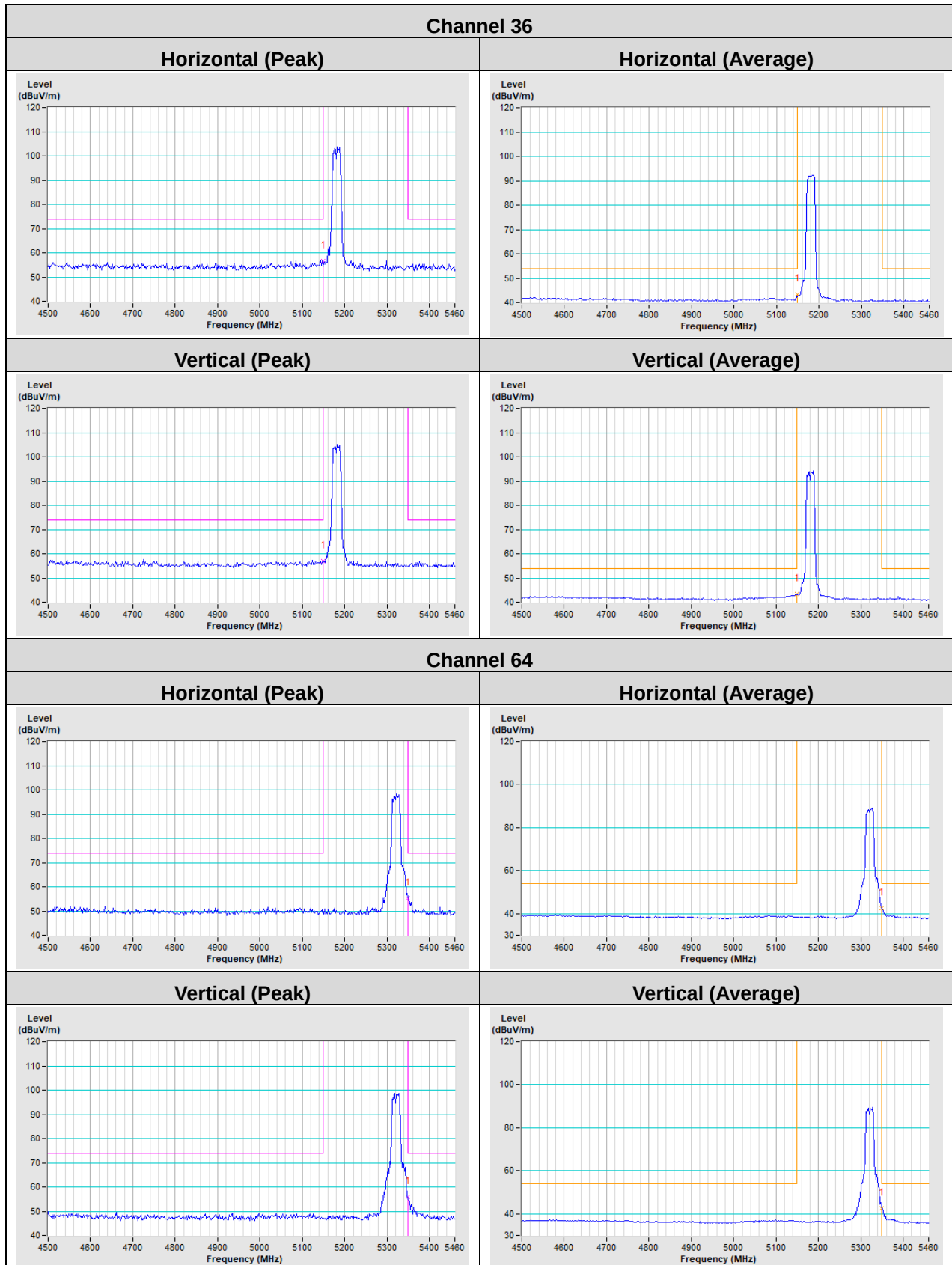


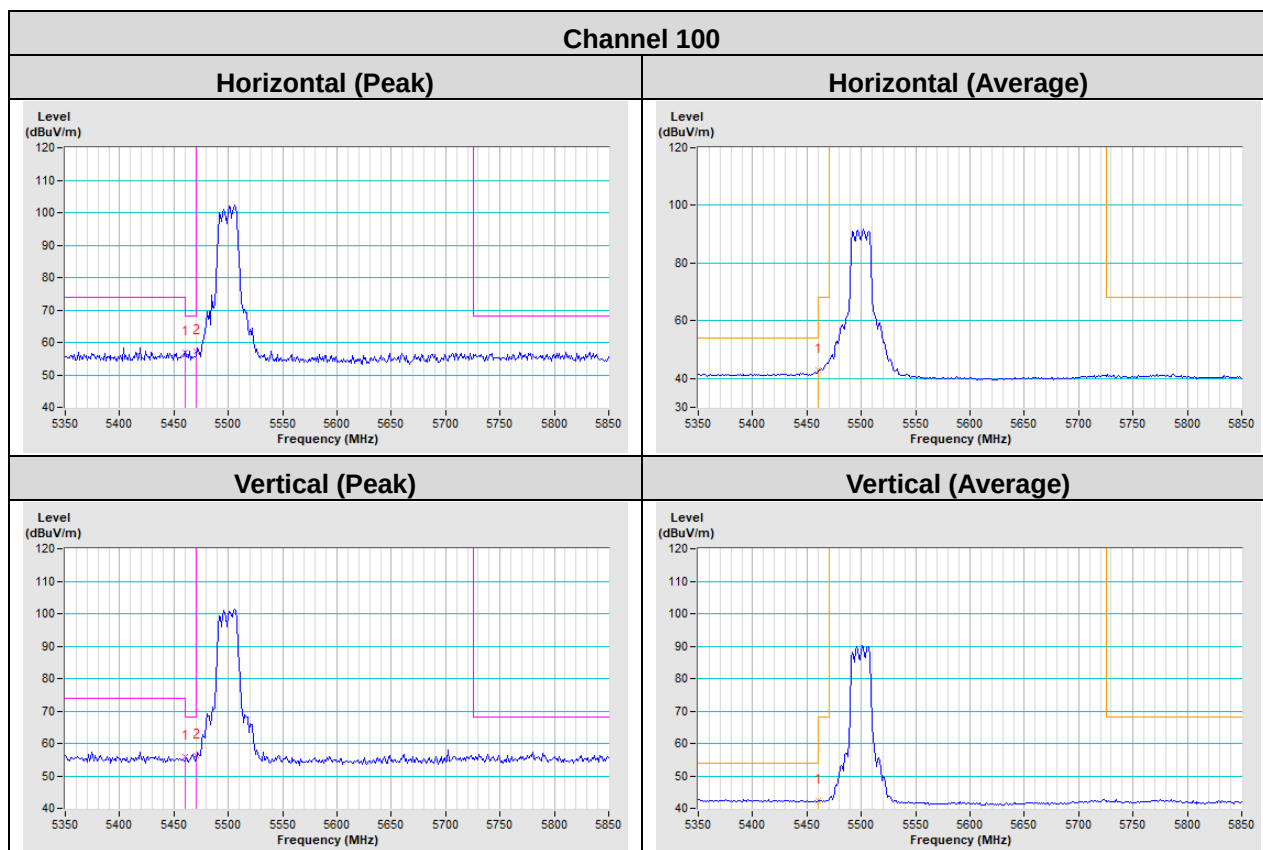
802.11ac (VHT80)



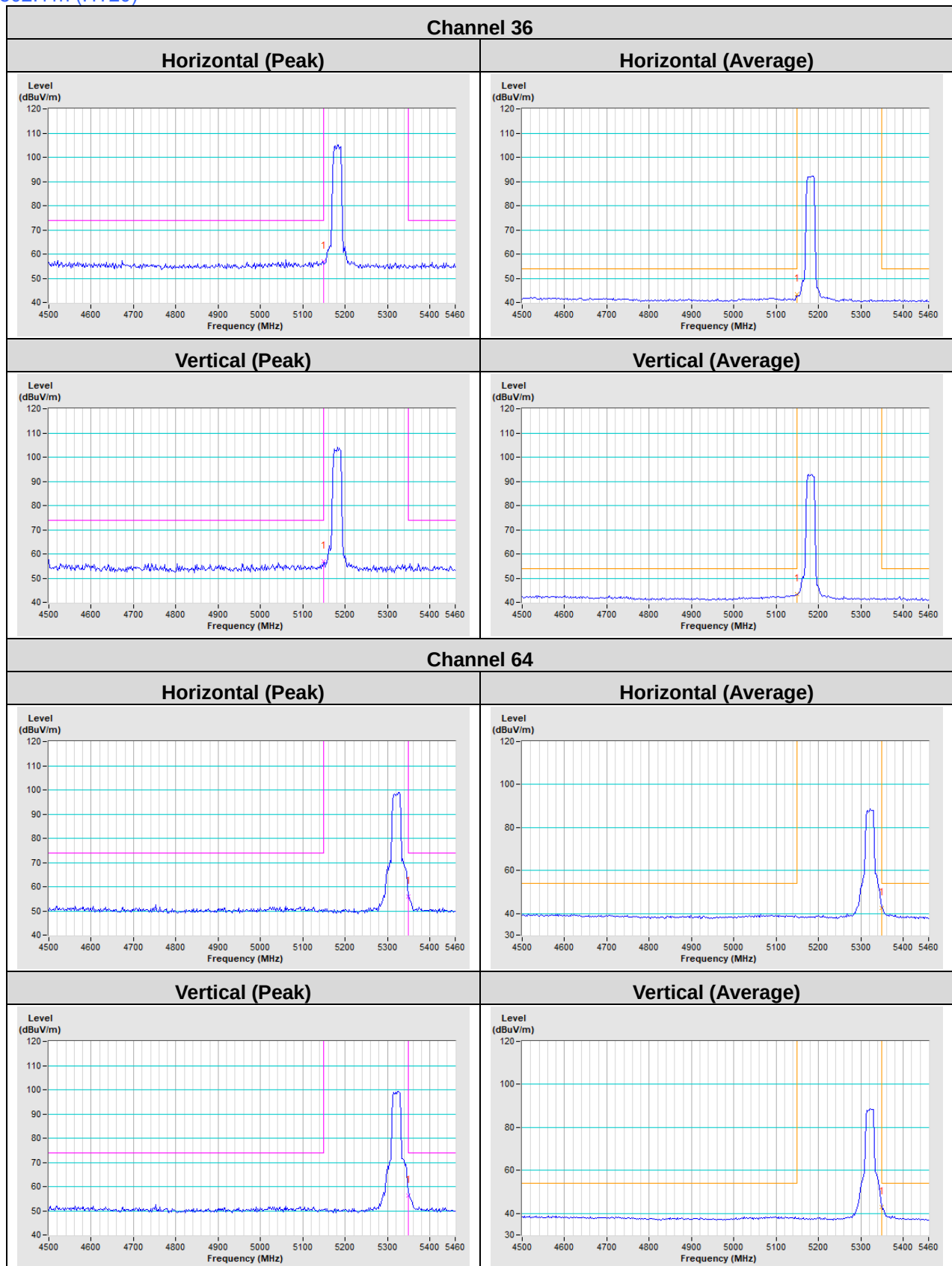
Annex B- Band Edge Measurement

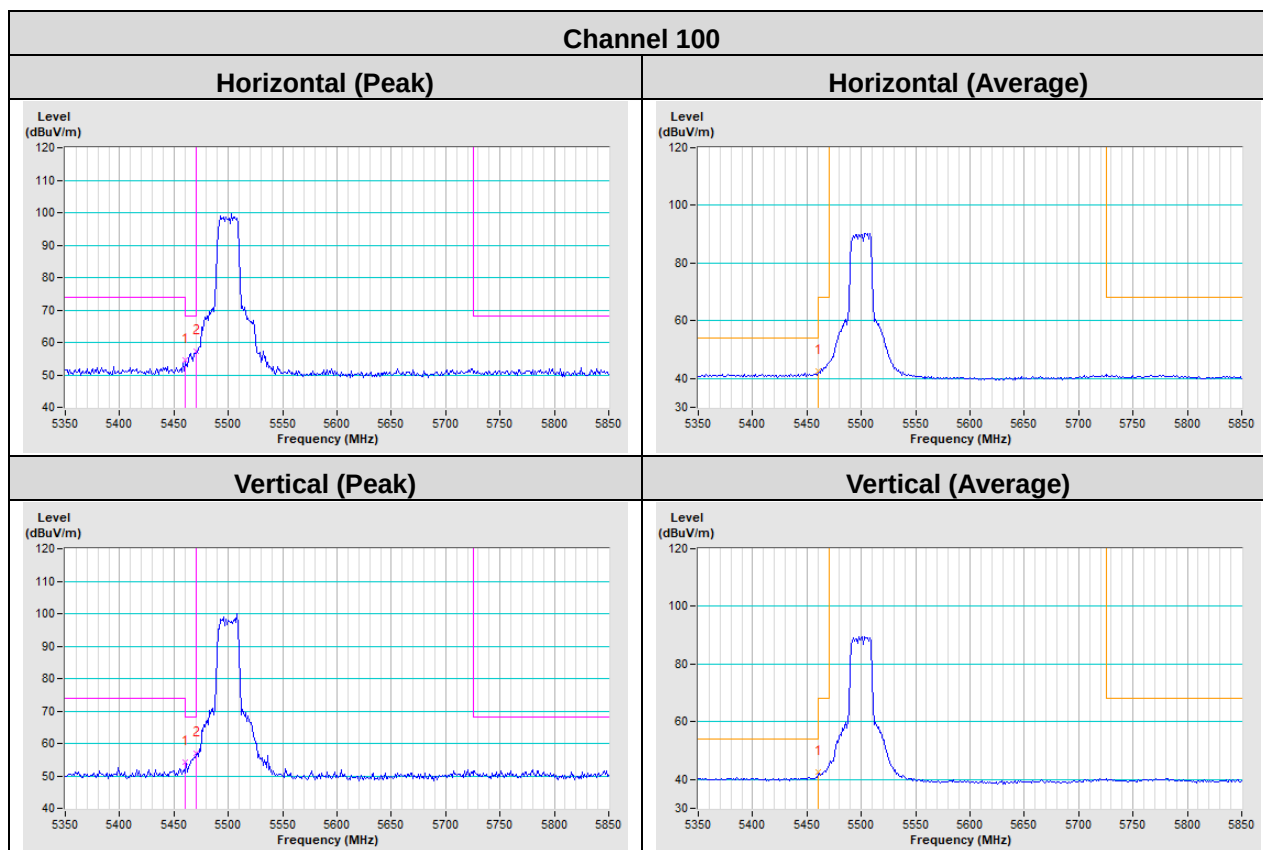
802.11a



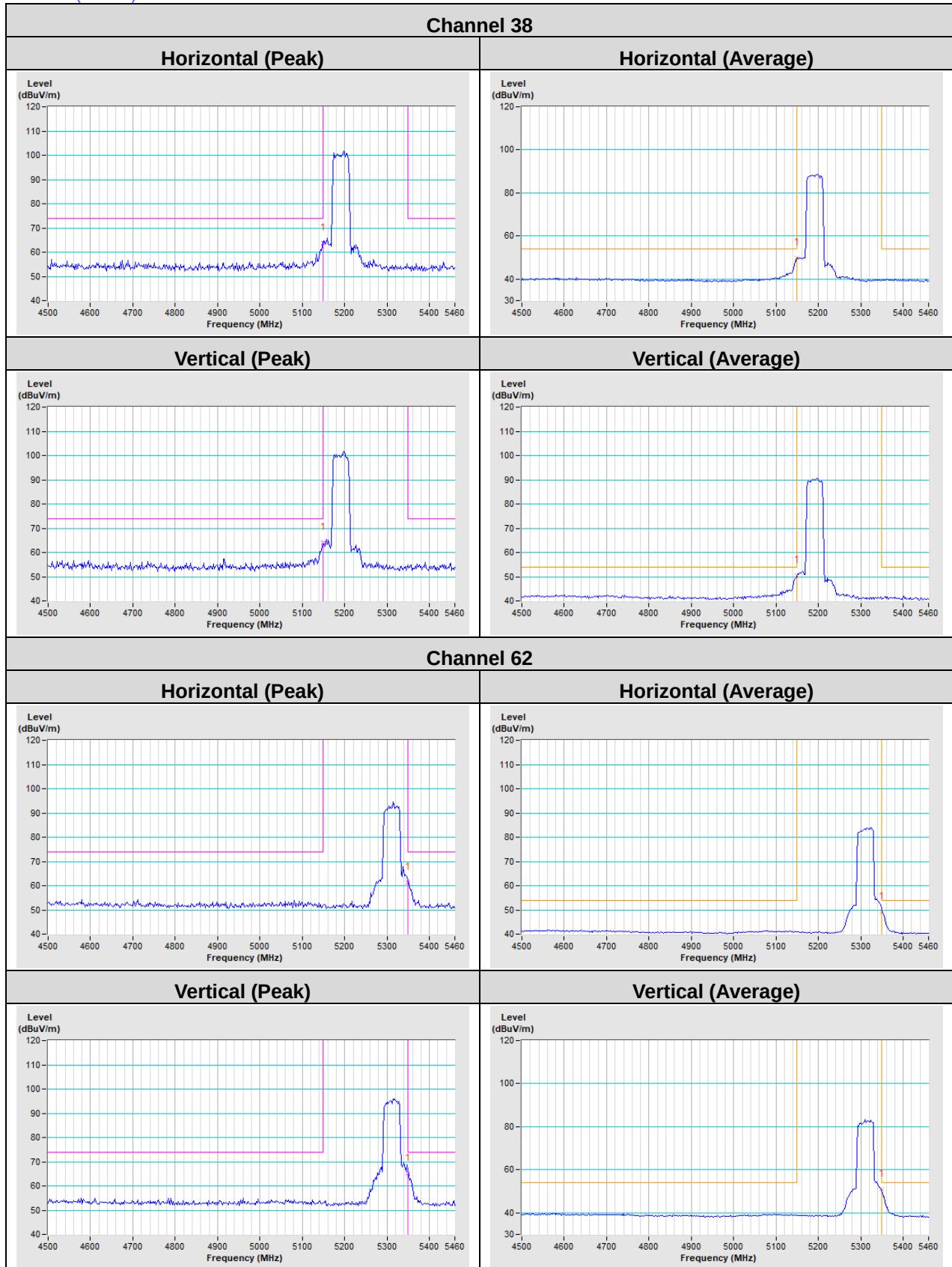


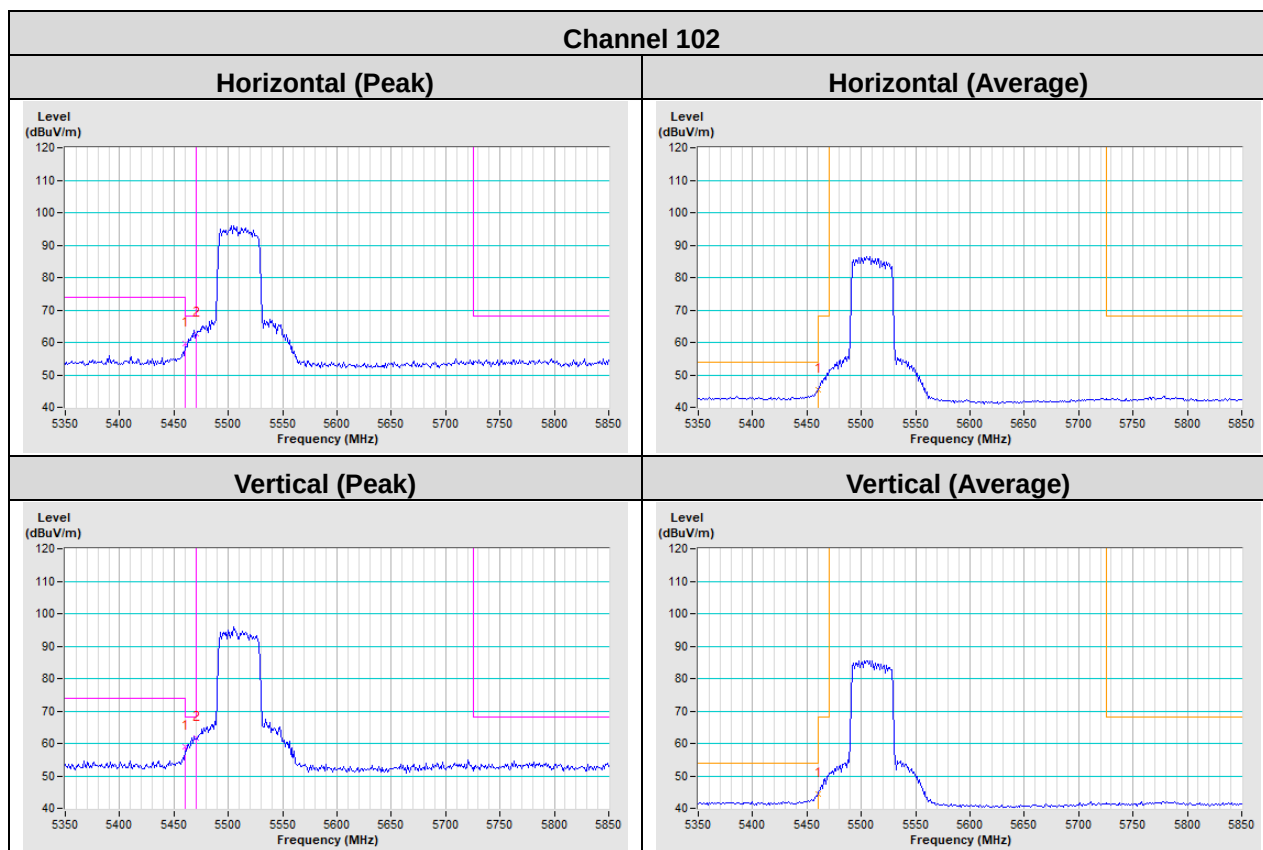
802.11n (HT20)



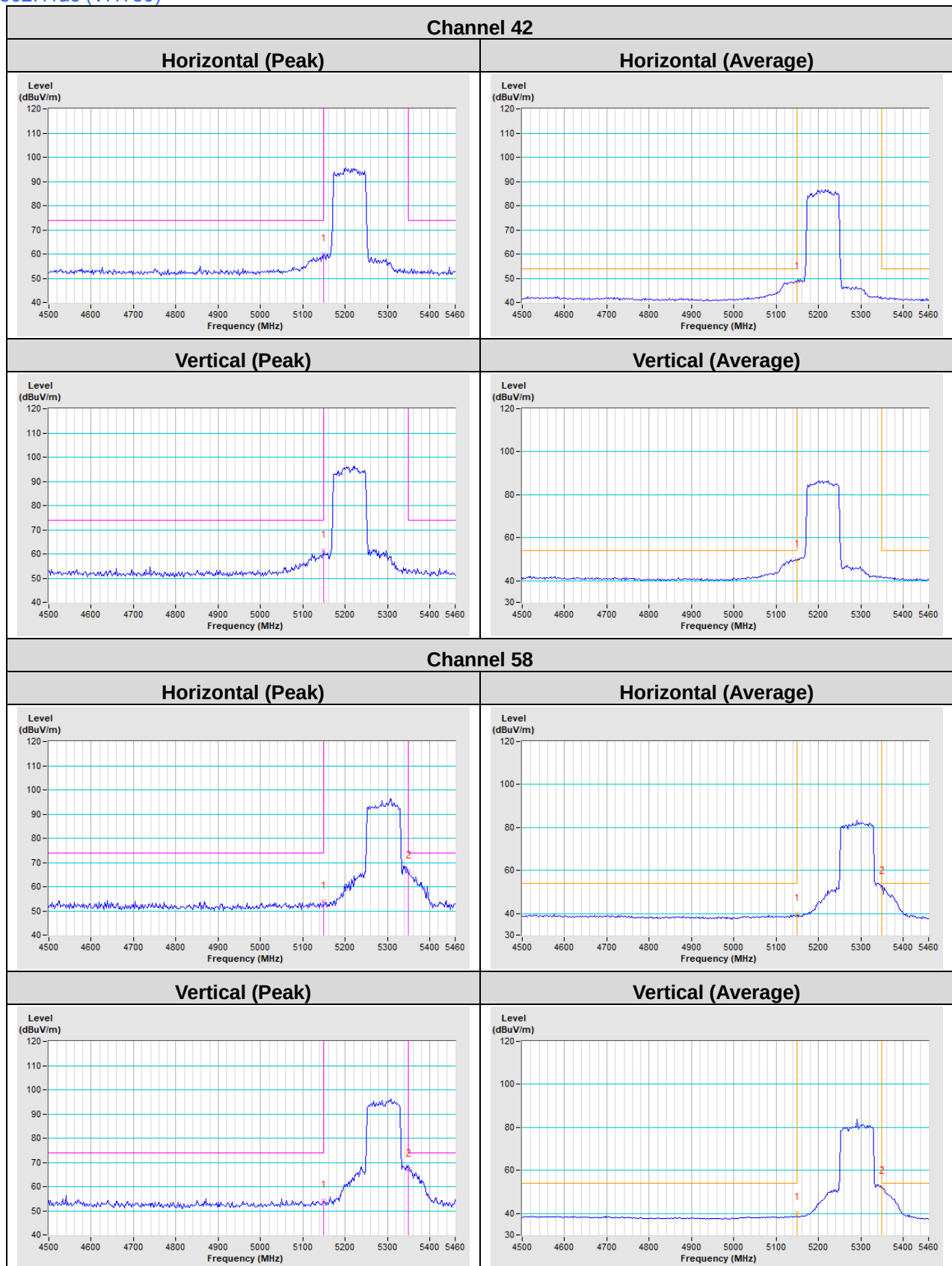


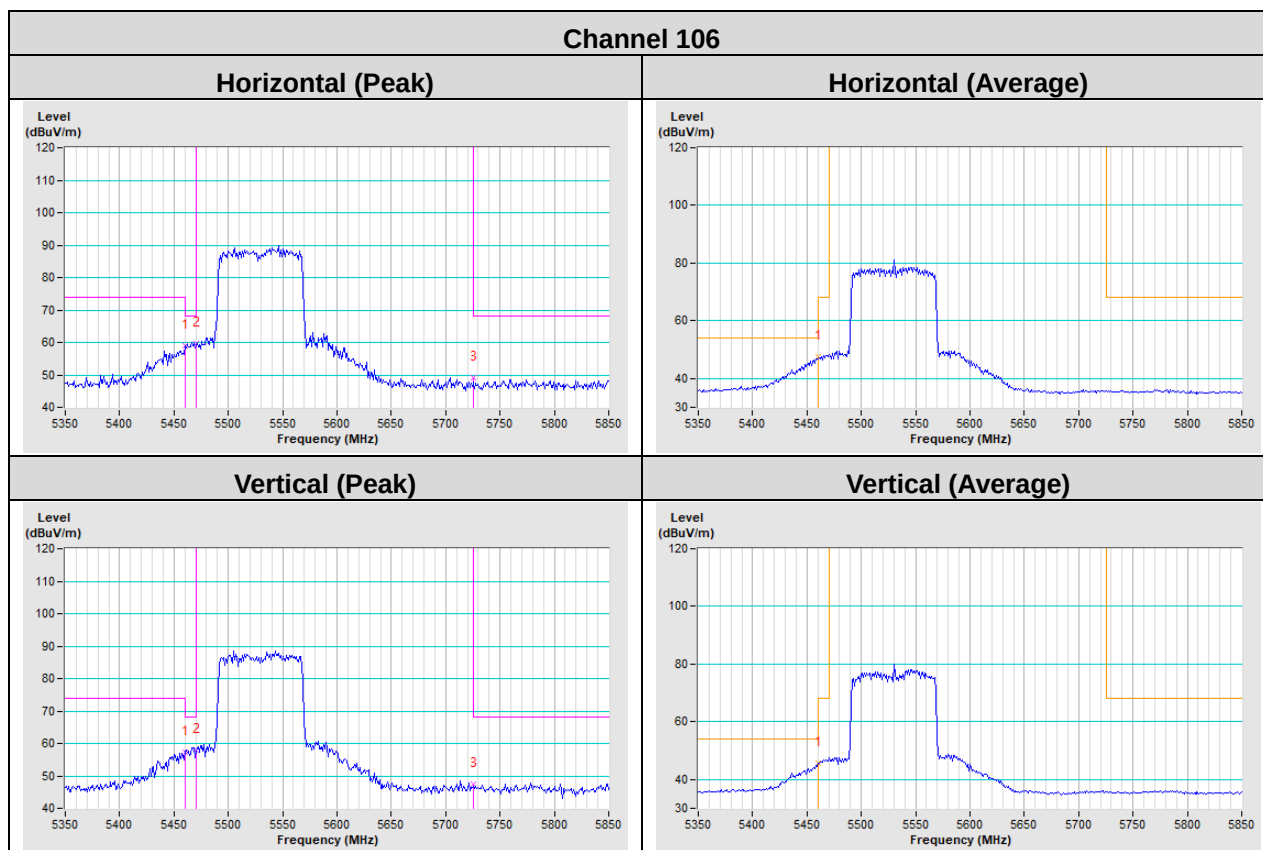
802.11n (HT40)





802.11ac (VHT80)





Appendix – Information of the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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