

FCC Test Report (WLAN)

Report No.: RF200814E08-1

FCC ID: RAS-MT7921K

Test Model: MT7921K

Received Date: Aug. 14, 2020

Test Date: Sep. 05 to 28, 2020

Issued Date: Oct. 16, 2020

Applicant: MediaTek Inc.

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RF200814E08-1	Original release.	Oct. 16, 2020

1 Certificate of Conformity

Product: 2TX 11ax (WiFi6E) + BT/BLE Combo Card

Brand: MediaTek

Test Model: MT7921K

Sample Status: ENGINEERING SAMPLE

Applicant: MediaTek Inc.

Test Date: Sep. 05 to 28, 2020

Standard: 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 EMC characteristics under the conditions specified in this report.

Prepared by : Vivian Huang , **Date:** Oct. 16, 2020
Vivian Huang / Specialist

Approved by : Clark Lin , **Date:** Oct. 16, 2020
Clark Lin / Technical Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -9.11dB at 21.16807 MHz.
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 -0.1 dB at 5350.00 MHz.
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 R-SMA or i-pex(MHF) not a standard connector.

Note:

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

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) ($\pm$)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.9 dB
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.4 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	2TX 11ax (WiFi6E) + BT/BLE Combo Card
Brand	MediaTek
Test Model	MT7921K
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT20/40 in 2.4GHz 1024QAM for OFDMA in 11ax HE mode
Modulation Technology	DSSS, OFDM, OFDMA
Transfer Rate	802.11b: up to 11 Mbps 802.11a/g: up to 54 Mbps 802.11n: up to 300 Mbps 802.11ac: up to 866.7 Mbps 802.11ax: up to 1201.0 Mbps
Operating Frequency	2.4GHz: 2.412 ~ 2.472GHz 5GHz: 5.18~5.32GHz, 5.50~5.72GHz, 5.745 ~ 5.825GHz 6GHz: 5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz
Number of Channel	2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20, 802.11ax (HE20): 13 802.11n (HT40), VHT40, 802.11ax (HE40): 9 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 6GHz: 802.11ax (HE20): 59 802.11ax (HE40): 29 802.11ax (HE80): 14
Output Power	2.412 ~ 2.472 GHz: 815.903 mW 5.18 ~ 5.24 GHz: 143.816 mW 5.26 ~ 5.32GHz: 147.866 mW 5.5 ~ 5.72GHz: 156.514 mW 5.745 ~ 5.825 GHz: 193.138 mW 5.955 ~ 6.415GHz: 15.491 mW (EIRP: 15.21 dBm / 33.19 mW) 6.435 ~ 6.525GHz: 15.333 mW (EIRP: 15.17 dBm / 32.885 mW) 6.525 ~ 6.875GHz: 14.896 mW (EIRP: 15.04 dBm / 31.915 mW) 6.875 ~ 7.115GHz: 14.749 mW (EIRP: 15.00 dBm / 31.623 mW)
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	Bluetooth
2	WLAN (5GHz / 6GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

2. The antennas provided to the EUT, please refer to the following table:

Ant. Set	RF Chain No.	Brand	Model	Ant. Net Gain (dBi)	Freq. Range (GHz)	Ant. Type	Connector Type	Cable Length (mm)	Cable Loss (dB)	Excluding Cable Loss Ant. Gain (dBi)
1	Chain0	Cortec	AN2450-4902B RS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
	Chain1	Cortec	AN2450-4902B RS	2.42 3.87	2.4~2.4835 5.15~5.85	Dipole	R-SMA	150	2.4~2.4835GHz : 0.5 5.15~5.85GHz : 0.8	2.92 4.67
2	Chain0	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
	Chain1	PSA	RFMTA340718 EMLB302	3.18 4.92	2.4~2.4835 5.15~5.85	PIFA	i-pex(MHF)	200	included cable loss	-
3	Chain0	PSA	RFMTA311020 EMMB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-
	Chain1	PSA	RFMTA311020 EMMB301	1.71 4.82 3.31	2.4~2.4835 5.15~5.85 5.92~7.125	PIFA	i-pex(MHF)	200	-	-

Note:

1. Max. gain was selected for the final test, except for the radiated emissions test.

3. The EUT incorporates a MIMO function:

2.4GHZ BAND		
MODULATION MODE	TX & RX CONFIGURATION	
802.11b	2TX	2RX
802.11g	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
VHT20	2TX	2RX
VHT40	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
5GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	2TX	2RX
802.11n (HT20)	2TX	2RX
802.11n (HT40)	2TX	2RX
802.11ac (VHT20)	2TX	2RX
802.11ac (VHT40)	2TX	2RX
802.11ac (VHT80)	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
6GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX

Note: The EUT doesn't support beamforming function.

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

5. The above Antenna information is declared by manufacturer, the laboratory shall not be held responsible.

3.2 Description of Test Modes

FOR 5180 ~ 5320MHz

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

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

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

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

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

Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz

FOR 5500 ~ 5720MHz

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

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

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

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

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

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

FOR 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

Channel	Frequency
155	5775 MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
1	√	√	√	√	With PIFA antenna (Ant. Set 2)
2	√	√	-	-	With Dipole antenna (Ant. Set 1)

Where **RE≥1G**: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Note: The EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6Mb/s
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6Mb/s
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	BPSK	MCS0
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6Mb/s
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Radiated Emission Test (Below 1GHz):

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

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

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320 5500-5720 5745-5825	36 to 64 100 to 144 149 to 165	165	OFDM	BPSK	6Mb/s

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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320 5500-5720 5745-5825	36 to 64 100 to 144 149 to 165	165	OFDM	BPSK	6Mb/s

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.

Mode	FREQ. Band (MHz)	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate Parameter
802.11a	5180-5320	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		38 to 62	38, 46, 54, 62	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		42, 58	42, 58	OFDM	BPSK	MCS0
802.11ax (HE20)		36 to 64	36, 40, 48, 52, 60, 64	OFDMA	BPSK	MCS0
802.11ax (HE40)		38 to 62	38, 46, 54, 62	OFDMA	BPSK	MCS0
802.11ax (HE80)		42, 58	42, 58	OFDMA	BPSK	MCS0
802.11a	5500-5720	100 to 144	100, 116, 140, 144	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		100 to 144	100, 116, 140, 144	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		102 to 142	102, 110, 134, 142	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		106 to 138	106, 122, 138	OFDM	BPSK	MCS0
802.11ax (HE20)		100 to 144	100, 116, 140, 144	OFDMA	BPSK	MCS0
802.11ax (HE40)		102 to 142	102, 110, 134, 142	OFDMA	BPSK	MCS0
802.11ax (HE80)		106 to 138	106, 122, 138	OFDMA	BPSK	MCS0
802.11a	5745-5825	149 to 165	149, 157, 165	OFDM	BPSK	6Mb/s
802.11ac (VHT20) (Output power only)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
802.11ac (VHT40) (Output power only)		151 to 159	151, 159	OFDM	BPSK	MCS0
802.11ac (VHT80) (Output power only)		155	155	OFDM	BPSK	MCS0
802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0
802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power (System)	Tested By
RE $\geq$ 1G	23deg. C, 67%RH	120Vac, 60Hz	Eric Peng
RE<1G	24deg. C, 68%RH	120Vac, 60Hz	Tom Yang
PLC	25deg. C, 68%RH	120Vac, 60Hz	Tom Yang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Kevin Ko

3.3 Duty Cycle of Test Signal

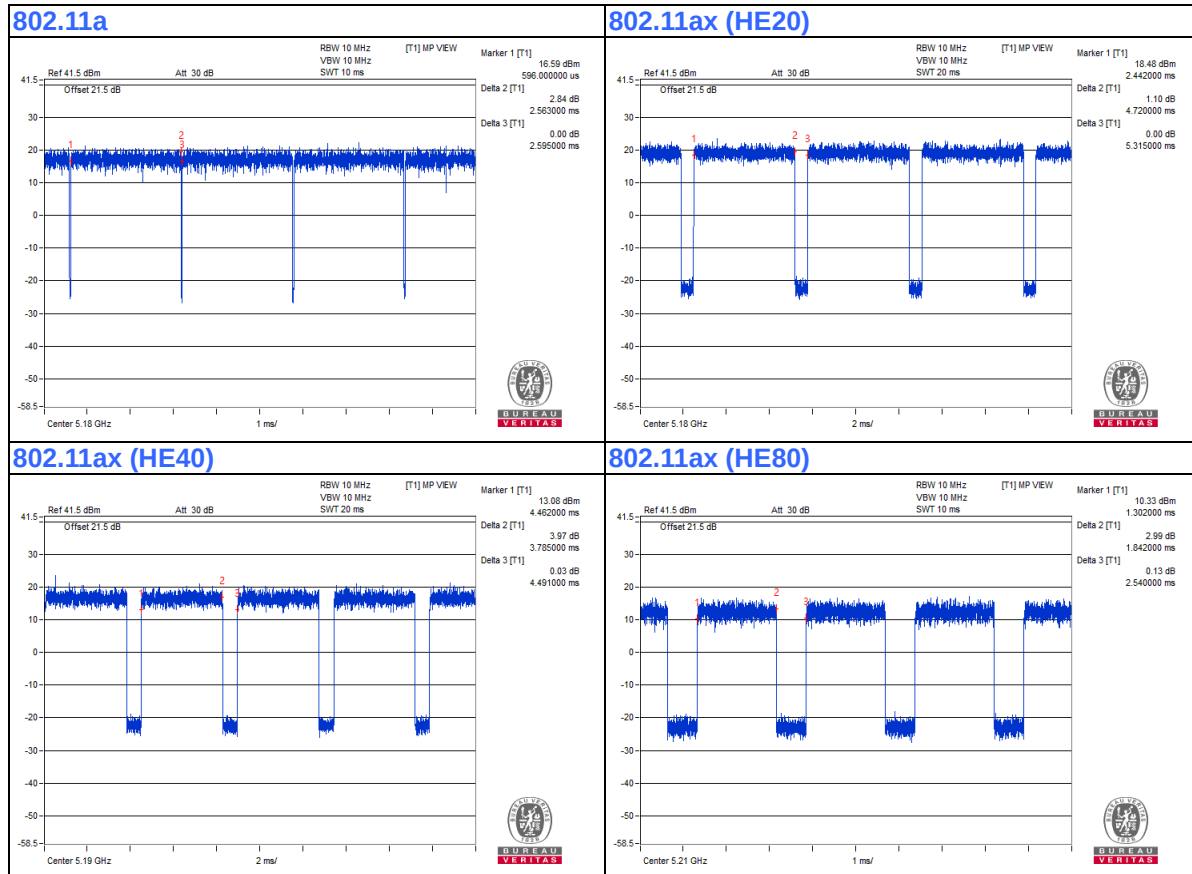
If duty cycle of test signal is $\geq 98\%$, duty factor is not required.
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = 2.563 ms / 2.595 ms = 0.988

802.11ax (HE20): Duty cycle = 4.72 ms / 5.315 ms = 0.888, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.52 \text{ dB}$

802.11ax (HE40): Duty cycle = 3.785 ms / 4.491 ms = 0.843, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 0.74 \text{ dB}$

802.11ax (HE80): Duty cycle = 1.842 ms / 2.54 ms = 0.725, Duty factor = $10 \cdot \log(1/\text{Duty cycle}) = 1.40 \text{ dB}$



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.

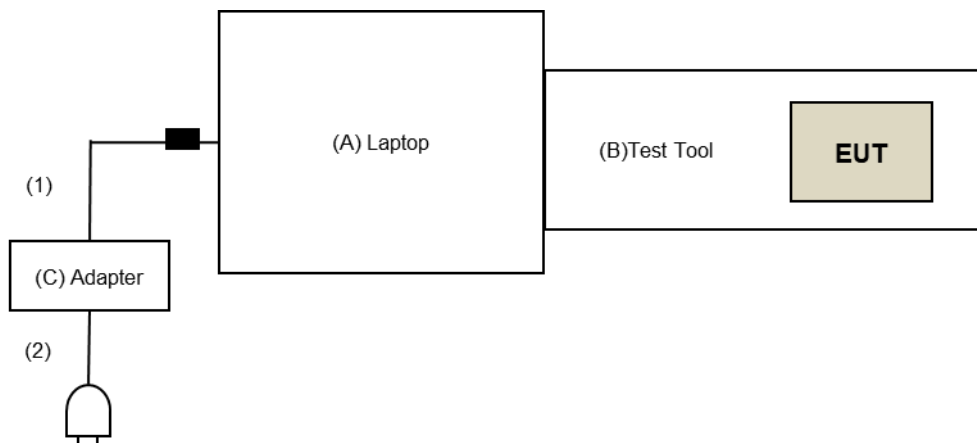
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E6440	H7LYQ32	FCC DoC	Provided by Lab
B.	Test Tool	MTK	NA	NA	NA	Supplied by client
C.	Adapter	Dell	FA65NE0-00	NA	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.6	No	1	Provided by Lab
2.	AC Cable	1	1	No	0	Provided by Lab

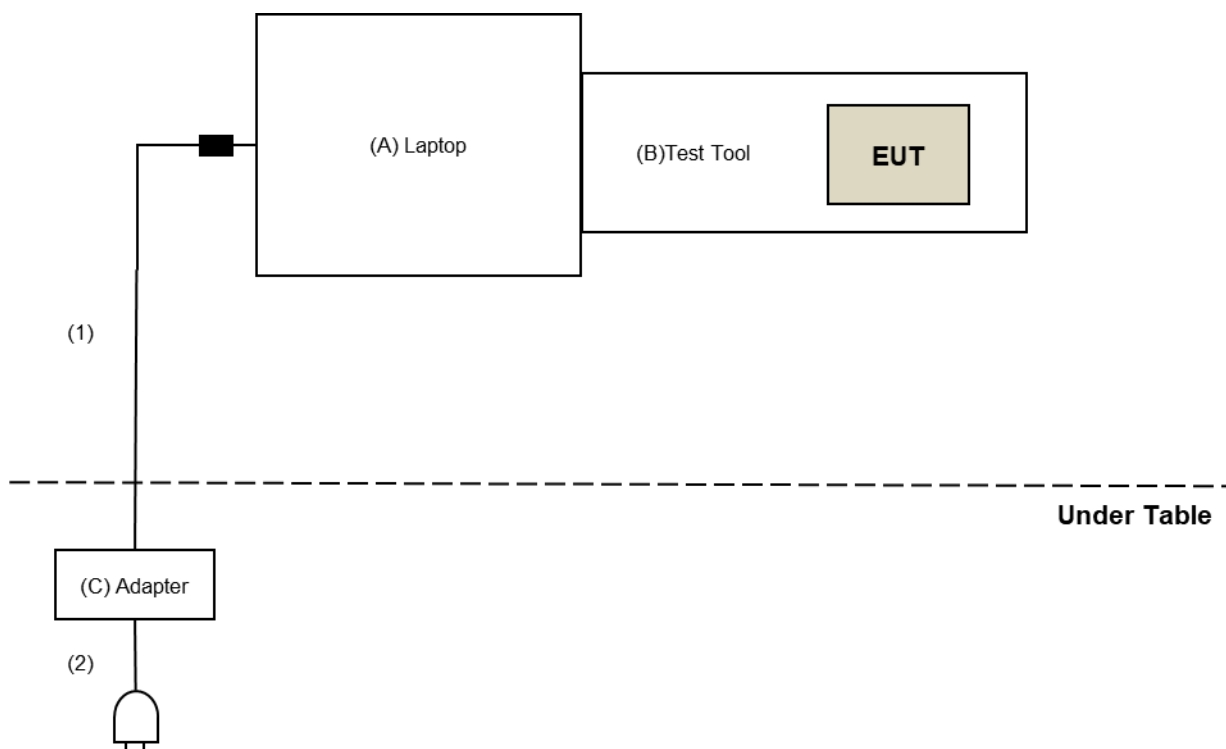
Note: The core is originally attached to the cable.

3.4.1 Configuration of System under Test

For Conducted Emissions test:



For Radiated Emissions test:



3.5 General Description of Applied Standard and References

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

Test Standard:

FCC Part 15, Subpart E (15.407)

ANSI C63.10-2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

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

Limits of unwanted emission out of the restricted bands

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

Note:

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

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

4.1.2 Test Instruments

For Radiated emission & Bandedge & OOB test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMC	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	NA	LOOPCAB-001	Jan. 08, 2020	Jan. 07, 2021
RF Cable	NA	LOOPCAB-002	Jan. 08, 2020	Jan. 07, 2021
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 28, 2020	Apr. 27, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 11, 2019	Nov. 10, 2020
RF Cable	8D	966-3-1	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-2	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-3	Mar. 17, 2020	Mar. 16, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 26, 2019	Sep. 25, 2020
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 24, 2019	Nov. 23, 2020
Pre-Amplifier EMC	EMC12630SE	980384	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC104-SM-SM-1500	180504	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMC	EMC184045SE	980387	Jan. 15, 2020	Jan. 14, 2021
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 24, 2019	Nov. 23, 2020
RF Cable	EMC102-KM-KM-1200	160924	Jan. 15, 2020	Jan. 14, 2021
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	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 966 Chamber No. 3.
3. Tested Date: Sep. 05 to 20, 2020

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
DC Power Supply Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 16, 2020	Jan. 15, 2021
True RMS Clamp Meter FLUKE	325	31130711WS	June 06, 2020	June 05, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- NOTE:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Sep. 28, 2020

4.1.3 Test Procedure

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 detects 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:

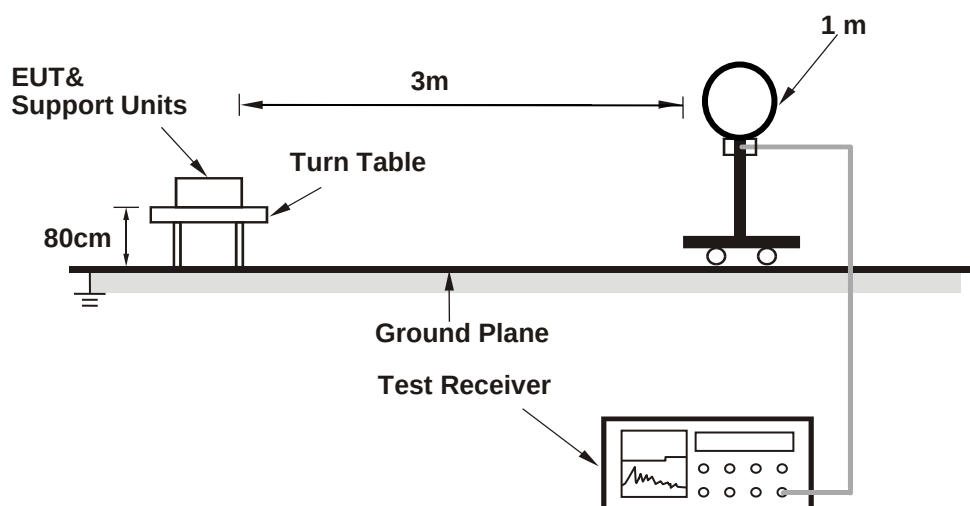
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
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.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

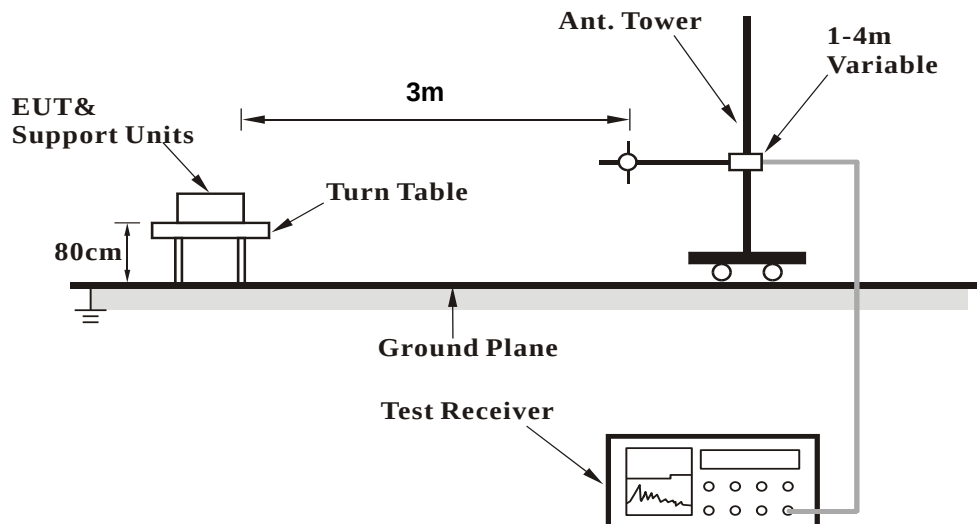
No deviation.

4.1.5 Test Setup

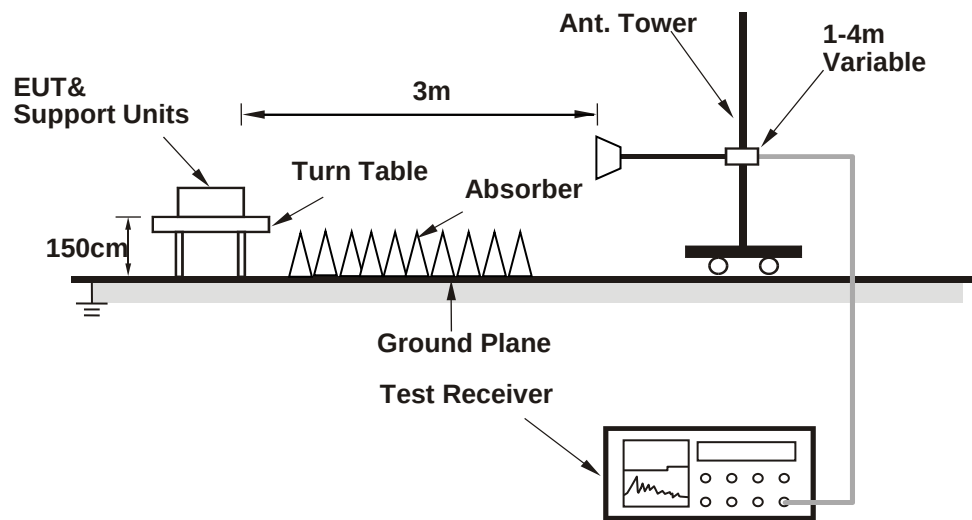
For Radiated emission below 30MHz



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 Condition

- Connected the EUT with the Laptop which is placed on the testing table.
- Controlling software (MT7961 QA0.0.2.33) has been activated to set the EUT under transmission condition continuously.

4.1.7 Test Results (Mode 1)

Above 1GHz Data:

802.11a

Channel	TX Channel 36	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	1.01 H	356	57.4	3.7
2	5150.00	51.9 AV	54.0	-2.1	1.01 H	356	48.2	3.7
3	*5180.00	111.5 PK			1.01 H	356	107.9	3.6
4	*5180.00	103.7 AV			1.01 H	356	100.1	3.6
5	#10360.00	61.1 PK	68.2	-7.1	1.09 H	123	48.4	12.7
6	15540.00	46.3 PK	74.0	-27.7	1.47 H	282	33.1	13.2
7	15540.00	35.1 AV	54.0	-18.9	1.47 H	282	21.9	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.2 PK	74.0	-16.8	1.03 V	52	53.5	3.7
2	5150.00	47.8 AV	54.0	-6.2	1.03 V	52	44.1	3.7
3	*5180.00	106.7 PK			1.03 V	52	103.1	3.6
4	*5180.00	99.4 AV			1.03 V	52	95.8	3.6
5	#10360.00	62.7 PK	68.2	-5.5	3.71 V	260	50.0	12.7
6	15540.00	45.1 PK	74.0	-28.9	1.74 V	109	31.9	13.2
7	15540.00	34.9 AV	54.0	-19.1	1.74 V	109	21.7	13.2

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	62.6 PK	74.0	-11.4	1.09 H	354	58.9	3.7
2	5150.00	53.0 AV	54.0	-1.0	1.09 H	354	49.3	3.7
3	*5200.00	112.3 PK			1.09 H	354	108.8	3.5
4	*5200.00	105.4 AV			1.09 H	354	101.9	3.5
5	#10400.00	63.6 PK	68.2	-4.6	1.06 H	108	50.8	12.8
6	15600.00	46.3 PK	74.0	-27.7	1.53 H	271	32.8	13.5
7	15600.00	36.7 AV	54.0	-17.3	1.53 H	271	23.2	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.5 PK	74.0	-16.5	1.18 V	76	53.8	3.7
2	5150.00	48.1 AV	54.0	-5.9	1.18 V	76	44.4	3.7
3	*5200.00	109.8 PK			1.18 V	76	106.3	3.5
4	*5200.00	101.8 AV			1.18 V	76	98.3	3.5
5	#10400.00	65.2 PK	68.2	-3.0	3.70 V	259	52.4	12.8
6	15600.00	46.0 PK	74.0	-28.0	1.69 V	93	32.5	13.5
7	15600.00	36.6 AV	54.0	-17.4	1.69 V	93	23.1	13.5

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 48	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.9 PK	74.0	-13.1	1.00 H	355	57.2	3.7
2	5150.00	51.6 AV	54.0	-2.4	1.00 H	355	47.9	3.7
3	*5240.00	113.7 PK			1.00 H	355	110.2	3.5
4	*5240.00	106.4 AV			1.00 H	355	102.9	3.5
5	5350.00	60.2 PK	74.0	-13.8	1.00 H	355	56.8	3.4
6	5350.00	50.3 AV	54.0	-3.7	1.00 H	355	46.9	3.4
7	#10480.00	64.3 PK	68.2	-3.9	1.00 H	117	51.2	13.1
8	15720.00	45.8 PK	74.0	-28.2	1.54 H	263	32.0	13.8
9	15720.00	36.4 AV	54.0	-17.6	1.54 H	263	22.6	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	1.08 V	68	53.1	3.7
2	5150.00	47.7 AV	54.0	-6.3	1.08 V	68	44.0	3.7
3	*5240.00	109.8 PK			1.08 V	68	106.3	3.5
4	*5240.00	102.6 AV			1.08 V	68	99.1	3.5
5	5350.00	57.4 PK	74.0	-16.6	1.08 V	68	54.0	3.4
6	5350.00	46.8 AV	54.0	-7.2	1.08 V	68	43.4	3.4
7	#10480.00	66.5 PK	68.2	-1.7	3.70 V	267	53.4	13.1
8	15720.00	46.2 PK	74.0	-27.8	1.63 V	106	32.4	13.8
9	15720.00	36.6 AV	54.0	-17.4	1.63 V	106	22.8	13.8

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 52	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.1 PK	74.0	-14.9	1.02 H	354	55.4	3.7
2	5150.00	49.9 AV	54.0	-4.1	1.02 H	354	46.2	3.7
3	*5260.00	115.6 PK			1.02 H	354	112.2	3.4
4	*5260.00	107.9 AV			1.02 H	354	104.5	3.4
5	5350.00	63.1 PK	74.0	-10.9	1.02 H	354	59.7	3.4
6	5350.00	52.9 AV	54.0	-1.1	1.02 H	354	49.5	3.4
7	#10520.00	60.6 PK	68.2	-7.6	1.19 H	132	47.5	13.1
8	15780.00	46.0 PK	74.0	-28.0	1.45 H	12	32.5	13.5
9	15780.00	36.7 AV	54.0	-17.3	1.45 H	12	23.2	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	55.7 PK	74.0	-18.3	1.04 V	56	52.0	3.7
2	5150.00	45.0 AV	54.0	-9.0	1.04 V	56	41.3	3.7
3	*5260.00	110.8 PK			1.04 V	56	107.4	3.4
4	*5260.00	103.3 AV			1.04 V	56	99.9	3.4
5	5350.00	57.5 PK	74.0	-16.5	1.04 V	56	54.1	3.4
6	5350.00	48.3 AV	54.0	-5.7	1.04 V	56	44.9	3.4
7	#10520.00	57.5 PK	68.2	-10.7	3.34 V	317	44.4	13.1
8	15780.00	46.3 PK	74.0	-27.7	1.67 V	105	32.8	13.5
9	15780.00	36.5 AV	54.0	-17.5	1.67 V	105	23.0	13.5

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 60	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.3 PK			1.03 H	354	112.0	3.3
2	*5300.00	107.3 AV			1.03 H	354	104.0	3.3
3	5350.00	63.8 PK	74.0	-10.2	1.03 H	354	60.4	3.4
4	5350.00	53.9 AV	54.0	-0.1	1.03 H	354	50.5	3.4
5	10600.00	61.3 PK	74.0	-12.7	1.00 H	119	48.4	12.9
6	10600.00	50.0 AV	54.0	-4.0	1.00 H	119	37.1	12.9
7	15900.00	45.7 PK	74.0	-28.3	1.45 H	12	32.9	12.8
8	15900.00	36.7 AV	54.0	-17.3	1.45 H	12	23.9	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.1 PK			1.04 V	41	107.8	3.3
2	*5300.00	103.3 AV			1.04 V	41	100.0	3.3
3	5350.00	60.7 PK	74.0	-13.3	1.04 V	41	57.3	3.4
4	5350.00	49.5 AV	54.0	-4.5	1.04 V	41	46.1	3.4
5	10600.00	61.7 PK	74.0	-12.3	3.76 V	291	48.8	12.9
6	10600.00	51.6 AV	54.0	-2.4	3.76 V	291	38.7	12.9
7	15900.00	45.7 PK	74.0	-28.3	1.65 V	109	32.9	12.8
8	15900.00	36.4 AV	54.0	-17.6	1.65 V	109	23.6	12.8

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 64	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.3 PK			1.00 H	357	107.9	3.4
2	*5320.00	105.3 AV			1.00 H	357	101.9	3.4
3	5350.00	60.6 PK	74.0	-13.4	1.00 H	357	57.2	3.4
4	5350.00	51.5 AV	54.0	-2.5	1.00 H	357	48.1	3.4
5	10640.00	57.0 PK	74.0	-17.0	1.03 H	114	44.1	12.9
6	10640.00	46.5 AV	54.0	-7.5	1.03 H	114	33.6	12.9
7	15960.00	45.9 PK	74.0	-28.1	1.49 H	23	33.1	12.8
8	15960.00	34.4 AV	54.0	-19.6	1.49 H	23	21.6	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	106.7 PK			1.06 V	50	103.3	3.4
2	*5320.00	99.7 AV			1.06 V	50	96.3	3.4
3	5350.00	55.9 PK	74.0	-18.1	1.06 V	50	52.5	3.4
4	5350.00	46.7 AV	54.0	-7.3	1.06 V	50	43.3	3.4
5	10640.00	57.8 PK	74.0	-16.2	3.76 V	303	44.9	12.9
6	10640.00	47.2 AV	54.0	-6.8	3.76 V	303	34.3	12.9
7	15960.00	45.8 PK	74.0	-28.2	1.61 V	107	33.0	12.8
8	15960.00	34.6 AV	54.0	-19.4	1.61 V	107	21.8	12.8

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 100	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.7 PK	74.0	-12.3	1.04 H	356	57.9	3.8
2	5460.00	51.0 AV	54.0	-3.0	1.04 H	356	47.2	3.8
3	#5464.00	61.1 PK	68.2	-7.1	1.00 H	0	57.3	3.8
4	*5500.00	112.4 PK			1.04 H	356	108.5	3.9
5	*5500.00	105.3 AV			1.04 H	356	101.4	3.9
6	11000.00	58.6 PK	74.0	-15.4	1.00 H	109	45.6	13.0
7	11000.00	47.5 AV	54.0	-6.5	1.00 H	109	34.5	13.0
8	#16500.00	45.4 PK	68.2	-22.8	1.46 H	13	30.8	14.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.7 PK	74.0	-15.3	1.00 V	48	54.9	3.8
2	5460.00	49.2 AV	54.0	-4.8	1.00 V	48	45.4	3.8
3	#5467.90	59.5 PK	68.2	-8.7	1.00 V	48	55.6	3.9
4	*5500.00	110.1 PK			1.00 V	48	106.2	3.9
5	*5500.00	102.8 AV			1.00 V	48	98.9	3.9
6	11000.00	59.1 PK	74.0	-14.9	3.71 V	317	46.1	13.0
7	11000.00	49.3 AV	54.0	-4.7	3.71 V	317	36.3	13.0
8	#16500.00	45.6 PK	68.2	-22.6	1.66 V	93	31.0	14.6

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 116	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	115.3 PK			1.08 H	338	111.5	3.8
2	*5580.00	107.8 AV			1.08 H	338	104.0	3.8
3	11160.00	61.6 PK	74.0	-12.4	1.08 H	99	48.5	13.1
4	11160.00	50.9 AV	54.0	-3.1	1.08 H	99	37.8	13.1
5	#16740.00	46.1 PK	68.2	-22.1	1.55 H	33	29.9	16.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.0 PK			1.10 V	36	107.2	3.8
2	*5580.00	104.3 AV			1.10 V	36	100.5	3.8
3	11160.00	62.9 PK	74.0	-11.1	3.71 V	300	49.8	13.1
4	11160.00	52.3 AV	54.0	-1.7	3.71 V	300	39.2	13.1
5	#16740.00	45.7 PK	68.2	-22.5	1.70 V	118	29.5	16.2

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 140	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	113.0 PK			1.00 H	6	109.0	4.0
2	*5700.00	105.9 AV			1.00 H	6	101.9	4.0
3	#5725.00	63.8 PK	68.2	-4.4	1.00 H	6	59.8	4.0
4	11400.00	58.7 PK	74.0	-15.3	1.06 H	106	45.5	13.2
5	11400.00	47.5 AV	54.0	-6.5	1.06 H	106	34.3	13.2
6	#17100.00	45.3 PK	68.2	-22.9	1.47 H	20	28.1	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.3 PK			1.05 V	49	106.3	4.0
2	*5700.00	102.8 AV			1.05 V	49	98.8	4.0
3	#5725.00	61.4 PK	68.2	-6.8	1.05 V	49	57.4	4.0
4	11400.00	59.0 PK	74.0	-15.0	3.76 V	318	45.8	13.2
5	11400.00	49.4 AV	54.0	-4.6	3.76 V	318	36.2	13.2
6	#17100.00	45.8 PK	68.2	-22.4	1.71 V	102	28.6	17.2

Remarks:

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

Channel	TX Channel 144	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.3 PK	74.0	-23.7	1.04 H	3	46.5	3.8
2	5460.00	40.6 AV	54.0	-13.4	1.04 H	3	36.8	3.8
3	#5470.00	51.9 PK	68.2	-16.3	1.04 H	3	48.0	3.9
4	*5720.00	114.6 PK			1.04 H	3	110.7	3.9
5	*5720.00	106.9 AV			1.04 H	3	103.0	3.9
6	#5850.00	60.9 PK	68.2	-7.3	1.04 H	3	56.5	4.4
7	11440.00	61.1 PK	74.0	-12.9	1.00 H	113	47.8	13.3
8	11440.00	49.8 AV	54.0	-4.2	1.00 H	113	36.5	13.3
9	#17160.00	45.5 PK	68.2	-22.7	1.43 H	20	28.1	17.4

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.9 PK	74.0	-23.1	1.05 V	28	47.1	3.8
2	5460.00	40.7 AV	54.0	-13.3	1.05 V	28	36.9	3.8
3	#5470.00	52.2 PK	68.2	-16.0	1.05 V	28	48.3	3.9
4	*5720.00	111.4 PK			1.05 V	28	107.5	3.9
5	*5720.00	103.6 AV			1.05 V	28	99.7	3.9
6	#5850.00	60.7 PK	68.2	-7.5	1.05 V	28	56.3	4.4
7	11440.00	61.6 PK	74.0	-12.4	3.77 V	275	48.3	13.3
8	11440.00	51.6 AV	54.0	-2.4	3.77 V	275	38.3	13.3
9	#17160.00	45.8 PK	68.2	-22.4	1.61 V	106	28.4	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 149	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.50	62.7 PK	68.2	-5.5	3.32 H	357	58.4	4.3
2	*5745.00	114.9 PK			3.32 H	357	110.9	4.0
3	*5745.00	107.2 AV			3.32 H	357	103.2	4.0
4	#5942.98	57.4 PK	68.2	-10.8	3.32 H	357	52.5	4.9
5	11490.00	53.6 PK	74.0	-20.4	2.75 H	303	40.3	13.3
6	11490.00	43.0 AV	54.0	-11.0	2.75 H	303	29.7	13.3
7	#17235.00	54.7 PK	68.2	-13.5	1.60 H	306	37.1	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.91	59.9 PK	68.2	-8.3	1.06 V	45	55.6	4.3
2	*5745.00	112.1 PK			1.06 V	45	108.1	4.0
3	*5745.00	105.2 AV			1.06 V	45	101.2	4.0
4	#5948.74	56.5 PK	68.2	-11.7	1.06 V	45	51.6	4.9
5	11490.00	52.6 PK	74.0	-21.4	2.16 V	189	39.3	13.3
6	11490.00	41.9 AV	54.0	-12.1	2.16 V	189	28.6	13.3
7	#17235.00	56.1 PK	68.2	-12.1	1.99 V	179	38.5	17.6

Remarks:

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

Channel	TX Channel 157	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.07	59.3 PK	68.2	-8.9	2.91 H	358	54.9	4.4
2	*5785.00	116.1 PK			2.91 H	358	112.0	4.1
3	*5785.00	107.9 AV			2.91 H	358	103.8	4.1
4	#5925.75	61.4 PK	68.2	-6.8	2.91 H	358	56.5	4.9
5	11570.00	54.4 PK	74.0	-19.6	2.71 H	289	41.2	13.2
6	11570.00	43.5 AV	54.0	-10.5	2.71 H	289	30.3	13.2
7	#17355.00	54.6 PK	68.2	-13.6	1.58 H	294	37.0	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.68	58.3 PK	68.2	-9.9	1.00 V	47	54.0	4.3
2	*5785.00	112.1 PK			1.00 V	47	108.0	4.1
3	*5785.00	105.0 AV			1.00 V	47	100.9	4.1
4	#5932.45	57.9 PK	68.2	-10.3	1.00 V	47	53.0	4.9
5	11570.00	52.1 PK	74.0	-21.9	2.12 V	190	38.9	13.2
6	11570.00	41.4 AV	54.0	-12.6	2.12 V	190	28.2	13.2
7	#17355.00	56.2 PK	68.2	-12.0	2.00 V	175	38.6	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 165	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5639.51	56.7 PK	68.2	-11.5	3.19 H	357	52.4	4.3
2	*5825.00	114.6 PK			3.19 H	357	110.3	4.3
3	*5825.00	107.0 AV			3.19 H	357	102.7	4.3
4	#5927.09	61.3 PK	68.2	-6.9	3.19 H	357	56.4	4.9
5	11650.00	53.9 PK	74.0	-20.1	2.72 H	295	40.6	13.3
6	11650.00	43.0 AV	54.0	-11.0	2.72 H	295	29.7	13.3
7	#17475.00	54.5 PK	68.2	-13.7	1.57 H	318	36.6	17.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5638.35	54.9 PK	68.2	-13.3	1.09 V	46	50.6	4.3
2	*5825.00	112.3 PK			1.09 V	46	108.0	4.3
3	*5825.00	105.3 AV			1.09 V	46	101.0	4.3
4	#5929.83	60.1 PK	68.2	-8.1	1.09 V	46	55.2	4.9
5	11650.00	53.1 PK	74.0	-20.9	2.15 V	203	39.8	13.3
6	11650.00	42.3 AV	54.0	-11.7	2.15 V	203	29.0	13.3
7	#17475.00	56.2 PK	68.2	-12.0	2.00 V	191	38.3	17.9

Remarks:

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

802.11ax (HE20)

Channel	TX Channel 36	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	1.76 H	358	55.9	3.7
2	5150.00	50.7 AV	54.0	-3.3	1.76 H	358	47.0	3.7
3	*5180.00	112.1 PK			1.76 H	358	108.5	3.6
4	*5180.00	102.0 AV			1.76 H	358	98.4	3.6
5	#10360.00	57.4 PK	68.2	-10.8	1.05 H	121	44.7	12.7
6	15540.00	45.6 PK	74.0	-28.4	1.45 H	275	32.4	13.2
7	15540.00	34.2 AV	54.0	-19.8	1.45 H	275	21.0	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.7 PK	74.0	-17.3	1.02 V	52	53.0	3.7
2	5150.00	47.5 AV	54.0	-6.5	1.02 V	52	43.8	3.7
3	*5180.00	106.6 PK			1.02 V	52	103.0	3.6
4	*5180.00	97.5 AV			1.02 V	52	93.9	3.6
5	#10360.00	58.7 PK	68.2	-9.5	3.75 V	263	46.0	12.7
6	15540.00	45.4 PK	74.0	-28.6	1.69 V	121	32.2	13.2
7	15540.00	34.0 AV	54.0	-20.0	1.69 V	121	20.8	13.2

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	112.6 PK			1.12 H	357	109.1	3.5
2	*5200.00	103.3 AV			1.12 H	357	99.8	3.5
3	#10400.00	58.1 PK	68.2	-10.1	1.03 H	98	45.3	12.8
4	15600.00	45.1 PK	74.0	-28.9	1.39 H	265	31.6	13.5
5	15600.00	33.8 AV	54.0	-20.2	1.39 H	265	20.3	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	106.7 PK			1.02 V	53	103.2	3.5
2	*5200.00	98.2 AV			1.02 V	53	94.7	3.5
3	#10400.00	59.3 PK	68.2	-8.9	3.76 V	250	46.5	12.8
4	15600.00	45.7 PK	74.0	-28.3	1.74 V	127	32.2	13.5
5	15600.00	33.7 AV	54.0	-20.3	1.74 V	127	20.2	13.5

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 48	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	113.8 PK			1.07 H	357	110.3	3.5
2	*5240.00	103.2 AV			1.07 H	357	99.7	3.5
3	5350.00	56.8 PK	74.0	-17.2	1.07 H	357	53.4	3.4
4	5350.00	48.0 AV	54.0	-6.0	1.07 H	357	44.6	3.4
5	#10480.00	59.0 PK	68.2	-9.2	1.01 H	110	45.9	13.1
6	15720.00	45.2 PK	74.0	-28.8	1.39 H	269	31.4	13.8
7	15720.00	34.1 AV	54.0	-19.9	1.39 H	269	20.3	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	106.7 PK			1.03 V	61	103.2	3.5
2	*5240.00	98.8 AV			1.03 V	61	95.3	3.5
3	5350.00	56.5 PK	74.0	-17.5	1.03 V	61	53.1	3.4
4	5350.00	45.2 AV	54.0	-8.8	1.03 V	61	41.8	3.4
5	#10480.00	60.0 PK	68.2	-8.2	3.72 V	259	46.9	13.1
6	15720.00	45.4 PK	74.0	-28.6	1.66 V	127	31.6	13.8
7	15720.00	34.2 AV	54.0	-19.8	1.66 V	127	20.4	13.8

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 52	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.1 PK	74.0	-15.9	1.09 H	356	54.4	3.7
2	5150.00	48.2 AV	54.0	-5.8	1.09 H	356	44.5	3.7
3	*5260.00	113.8 PK			1.09 H	356	110.4	3.4
4	*5260.00	104.9 AV			1.09 H	356	101.5	3.4
5	#10520.00	57.3 PK	68.2	-10.9	1.07 H	98	44.2	13.1
6	15780.00	46.3 PK	74.0	-27.7	1.44 H	26	32.8	13.5
7	15780.00	34.9 AV	54.0	-19.1	1.44 H	26	21.4	13.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.4 PK	74.0	-17.6	1.09 V	77	52.7	3.7
2	5150.00	44.8 AV	54.0	-9.2	1.09 V	77	41.1	3.7
3	*5260.00	106.3 PK			1.09 V	77	102.9	3.4
4	*5260.00	99.3 AV			1.09 V	77	95.9	3.4
5	#10520.00	58.5 PK	68.2	-9.7	3.75 V	321	45.4	13.1
6	15780.00	45.8 PK	74.0	-28.2	1.65 V	120	32.3	13.5
7	15780.00	34.4 AV	54.0	-19.6	1.65 V	120	20.9	13.5

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 60	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	115.1 PK			1.06 H	357	111.8	3.3
2	*5300.00	103.9 AV			1.06 H	357	100.6	3.3
3	5350.00	63.2 PK	74.0	-10.8	1.06 H	357	59.8	3.4
4	5350.00	52.2 AV	54.0	-1.8	1.06 H	357	48.8	3.4
5	10600.00	56.9 PK	74.0	-17.1	1.00 H	103	44.0	12.9
6	10600.00	46.2 AV	54.0	-7.8	1.00 H	103	33.3	12.9
7	15900.00	46.2 PK	74.0	-27.8	1.46 H	18	33.4	12.8
8	15900.00	34.9 AV	54.0	-19.1	1.46 H	18	22.1	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	106.2 PK			1.13 V	67	102.9	3.3
2	*5300.00	99.2 AV			1.13 V	67	95.9	3.3
3	5350.00	59.6 PK	74.0	-14.4	1.13 V	67	56.2	3.4
4	5350.00	50.7 AV	54.0	-3.3	1.13 V	67	47.3	3.4
5	10600.00	58.4 PK	74.0	-15.6	3.75 V	315	45.5	12.9
6	10600.00	47.5 AV	54.0	-6.5	3.75 V	315	34.6	12.9
7	15900.00	45.9 PK	74.0	-28.1	1.62 V	107	33.1	12.8
8	15900.00	34.5 AV	54.0	-19.5	1.62 V	107	21.7	12.8

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 64	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	108.9 PK			1.62 H	356	105.5	3.4
2	*5320.00	102.2 AV			1.62 H	356	98.8	3.4
3	5350.00	57.0 PK	74.0	-17.0	1.62 H	356	53.6	3.4
4	5350.00	48.5 AV	54.0	-5.5	1.62 H	356	45.1	3.4
5	10640.00	53.6 PK	74.0	-20.4	1.07 H	108	40.7	12.9
6	10640.00	42.5 AV	54.0	-11.5	1.07 H	108	29.6	12.9
7	15960.00	44.2 PK	74.0	-29.8	1.47 H	9	31.4	12.8
8	15960.00	33.3 AV	54.0	-20.7	1.47 H	9	20.5	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	108.5 PK			1.08 V	51	105.1	3.4
2	*5320.00	98.6 AV			1.08 V	51	95.2	3.4
3	5350.00	56.3 PK	74.0	-17.7	1.08 V	51	52.9	3.4
4	5350.00	46.7 AV	54.0	-7.3	1.08 V	51	43.3	3.4
5	10640.00	54.1 PK	74.0	-19.9	3.77 V	327	41.2	12.9
6	10640.00	43.6 AV	54.0	-10.4	3.77 V	327	30.7	12.9
7	15960.00	44.5 PK	74.0	-29.5	1.67 V	115	31.7	12.8
8	15960.00	33.5 AV	54.0	-20.5	1.67 V	115	20.7	12.8

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 100	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.4 PK	74.0	-15.6	1.57 H	355	54.6	3.8
2	5460.00	50.0 AV	54.0	-4.0	1.57 H	355	46.2	3.8
3	#5466.29	59.8 PK	68.2	-8.4	1.57 H	355	55.9	3.9
4	*5500.00	112.5 PK			1.57 H	355	108.6	3.9
5	*5500.00	103.8 AV			1.57 H	355	99.9	3.9
6	11000.00	55.9 PK	74.0	-18.1	1.03 H	103	42.9	13.0
7	11000.00	45.6 AV	54.0	-8.4	1.03 H	103	32.6	13.0
8	#16500.00	45.7 PK	68.2	-22.5	1.45 H	22	31.1	14.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.7 PK	74.0	-16.3	1.00 V	47	53.9	3.8
2	5460.00	47.5 AV	54.0	-6.5	1.00 V	47	43.7	3.8
3	#5465.95	56.4 PK	68.2	-11.8	1.00 V	47	52.5	3.9
4	*5500.00	108.8 PK			1.00 V	47	104.9	3.9
5	*5500.00	100.2 AV			1.00 V	47	96.3	3.9
6	11000.00	56.3 PK	74.0	-17.7	3.76 V	319	43.3	13.0
7	11000.00	46.2 AV	54.0	-7.8	3.76 V	319	33.2	13.0
8	#16500.00	45.9 PK	68.2	-22.3	1.64 V	100	31.3	14.6

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 116	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	113.8 PK			1.15 H	360	110.0	3.8
2	*5580.00	104.6 AV			1.15 H	360	100.8	3.8
3	11160.00	57.6 PK	74.0	-16.4	1.18 H	100	44.5	13.1
4	11160.00	46.6 AV	54.0	-7.4	1.18 H	100	33.5	13.1
5	#16740.00	46.3 PK	68.2	-21.9	1.51 H	24	30.1	16.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.6 PK			1.17 V	54	102.8	3.8
2	*5580.00	99.7 AV			1.17 V	54	95.9	3.8
3	11160.00	58.1 PK	74.0	-15.9	3.80 V	323	45.0	13.1
4	11160.00	47.3 AV	54.0	-6.7	3.80 V	323	34.2	13.1
5	#16740.00	46.2 PK	68.2	-22.0	1.57 V	94	30.0	16.2

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 140	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	114.2 PK			1.02 H	5	110.2	4.0
2	*5700.00	103.4 AV			1.02 H	5	99.4	4.0
3	#5725.00	63.3 PK	68.2	-4.9	1.02 H	5	59.3	4.0
4	11400.00	55.6 PK	74.0	-18.4	1.09 H	112	42.4	13.2
5	11400.00	45.3 AV	54.0	-8.7	1.09 H	112	32.1	13.2
6	#17100.00	45.6 PK	68.2	-22.6	1.50 H	20	28.4	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	106.0 PK			1.01 V	53	102.0	4.0
2	*5700.00	98.7 AV			1.01 V	53	94.7	4.0
3	#5725.00	59.6 PK	68.2	-8.6	1.01 V	53	55.6	4.0
4	11400.00	56.4 PK	74.0	-17.6	3.81 V	318	43.2	13.2
5	11400.00	46.0 AV	54.0	-8.0	3.81 V	318	32.8	13.2
6	#17100.00	45.6 PK	68.2	-22.6	1.62 V	114	28.4	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 144	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.2 PK	74.0	-23.8	1.03 H	355	46.4	3.8
2	5460.00	40.6 AV	54.0	-13.4	1.03 H	355	36.8	3.8
3	#5470.00	52.1 PK	68.2	-16.1	1.03 H	355	48.2	3.9
4	*5720.00	113.4 PK			1.03 H	355	109.5	3.9
5	*5720.00	104.5 AV			1.03 H	355	100.6	3.9
6	#5850.00	60.9 PK	68.2	-7.3	1.03 H	355	56.5	4.4
7	11440.00	56.7 PK	74.0	-17.3	1.03 H	99	43.4	13.3
8	11440.00	46.0 AV	54.0	-8.0	1.03 H	99	32.7	13.3
9	#17160.00	46.2 PK	68.2	-22.0	1.42 H	9	28.8	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.7 PK	74.0	-23.3	1.16 V	44	46.9	3.8
2	5460.00	40.7 AV	54.0	-13.3	1.16 V	44	36.9	3.8
3	#5470.00	52.6 PK	68.2	-15.6	1.16 V	44	48.7	3.9
4	*5720.00	106.0 PK			1.16 V	44	102.1	3.9
5	*5720.00	99.2 AV			1.16 V	44	95.3	3.9
6	#5850.00	61.0 PK	68.2	-7.2	1.16 V	44	56.6	4.4
7	11440.00	58.9 PK	74.0	-15.1	3.70 V	311	45.6	13.3
8	11440.00	48.0 AV	54.0	-6.0	3.70 V	311	34.7	13.3
9	#17160.00	46.1 PK	68.2	-22.1	1.64 V	116	28.7	17.4

Remarks:

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

Channel	TX Channel 149	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5634.61	59.9 PK	68.2	-8.3	2.92 H	360	55.6	4.3
2	*5745.00	114.3 PK			2.92 H	360	110.3	4.0
3	*5745.00	105.0 AV			2.92 H	360	101.0	4.0
4	#5929.24	55.8 PK	68.2	-12.4	2.92 H	360	50.9	4.9
5	11490.00	52.7 PK	74.0	-21.3	2.71 H	308	39.4	13.3
6	11490.00	41.0 AV	54.0	-13.0	2.71 H	308	27.7	13.3
7	#17235.00	53.6 PK	68.2	-14.6	1.57 H	305	36.0	17.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.16	58.1 PK	68.2	-10.1	1.02 V	47	53.8	4.3
2	*5745.00	111.8 PK			1.02 V	47	107.8	4.0
3	*5745.00	102.0 AV			1.02 V	47	98.0	4.0
4	#5935.50	54.0 PK	68.2	-14.2	1.02 V	47	49.1	4.9
5	11490.00	51.2 PK	74.0	-22.8	2.19 V	185	37.9	13.3
6	11490.00	40.7 AV	54.0	-13.3	2.19 V	185	27.4	13.3
7	#17235.00	54.0 PK	68.2	-14.2	1.96 V	184	36.4	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 157	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.77	59.4 PK	68.2	-8.8	3.45 H	359	55.1	4.3
2	*5785.00	116.3 PK			3.45 H	359	112.2	4.1
3	*5785.00	106.1 AV			3.45 H	359	102.0	4.1
4	#5925.83	57.8 PK	68.2	-10.4	3.45 H	359	52.9	4.9
5	11570.00	53.2 PK	74.0	-20.8	2.75 H	298	40.0	13.2
6	11570.00	41.5 AV	54.0	-12.5	2.75 H	298	28.3	13.2
7	#17355.00	53.4 PK	68.2	-14.8	1.52 H	310	35.8	17.6

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.71	56.8 PK	68.2	-11.4	1.05 V	46	52.5	4.3
2	*5785.00	113.2 PK			1.05 V	46	109.1	4.1
3	*5785.00	102.4 AV			1.05 V	46	98.3	4.1
4	#5926.38	57.3 PK	68.2	-10.9	1.05 V	46	52.4	4.9
5	11570.00	51.2 PK	74.0	-22.8	2.20 V	199	38.0	13.2
6	11570.00	40.8 AV	54.0	-13.2	2.20 V	199	27.6	13.2
7	#17355.00	54.2 PK	68.2	-14.0	1.95 V	175	36.6	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 165	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.95	54.7 PK	68.2	-13.5	3.00 H	358	50.4	4.3
2	*5825.00	114.2 PK			3.00 H	358	109.9	4.3
3	*5825.00	105.4 AV			3.00 H	358	101.1	4.3
4	#5939.23	61.5 PK	68.2	-6.7	3.00 H	358	56.5	5.0
5	11650.00	52.8 PK	74.0	-21.2	2.73 H	307	39.5	13.3
6	11650.00	41.2 AV	54.0	-12.8	2.73 H	307	27.9	13.3
7	#17475.00	53.3 PK	68.2	-14.9	1.55 H	312	35.4	17.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.30	52.4 PK	68.2	-15.8	1.07 V	47	48.1	4.3
2	*5825.00	114.1 PK			1.07 V	47	109.8	4.3
3	*5825.00	102.9 AV			1.07 V	47	98.6	4.3
4	#5925.76	55.0 PK	68.2	-13.2	1.07 V	47	50.1	4.9
5	11650.00	50.8 PK	74.0	-23.2	2.21 V	195	37.5	13.3
6	11650.00	40.5 AV	54.0	-13.5	2.21 V	195	27.2	13.3
7	#17475.00	53.5 PK	68.2	-14.7	1.92 V	177	35.6	17.9

Remarks:

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

802.11ax (HE40)

Channel	TX Channel 38	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	57.9 PK	74.0	-16.1	1.73 H	0	54.2	3.7
2	5150.00	50.9 AV	54.0	-3.1	1.73 H	0	47.2	3.7
3	*5190.00	110.3 PK			1.73 H	0	106.7	3.6
4	*5190.00	99.1 AV			1.73 H	0	95.5	3.6
5	#10380.00	52.5 PK	68.2	-15.7	1.20 H	109	39.8	12.7
6	15570.00	45.8 PK	74.0	-28.2	1.59 H	24	32.4	13.4
7	15570.00	34.7 AV	54.0	-19.3	1.59 H	24	21.3	13.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.0 PK	74.0	-16.0	1.05 V	53	54.3	3.7
2	5150.00	47.4 AV	54.0	-6.6	1.05 V	53	43.7	3.7
3	*5190.00	104.5 PK			1.05 V	53	100.9	3.6
4	*5190.00	95.2 AV			1.05 V	53	91.6	3.6
5	#10380.00	51.9 PK	68.2	-16.3	3.67 V	309	39.2	12.7
6	15570.00	45.2 PK	74.0	-28.8	1.62 V	111	31.8	13.4
7	15570.00	34.7 AV	54.0	-19.3	1.62 V	111	21.3	13.4

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	110.6 PK			1.00 H	352	107.1	3.5
2	*5230.00	101.1 AV			1.00 H	352	97.6	3.5
3	5350.00	55.9 PK	74.0	-18.1	1.00 H	352	52.5	3.4
4	5350.00	46.4 AV	54.0	-7.6	1.00 H	352	43.0	3.4
5	#10460.00	53.6 PK	68.2	-14.6	1.17 H	113	40.6	13.0
6	15690.00	46.4 PK	74.0	-27.6	1.56 H	9	32.5	13.9
7	15690.00	35.3 AV	54.0	-18.7	1.56 H	9	21.4	13.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	105.5 PK			1.10 V	56	102.0	3.5
2	*5230.00	98.9 AV			1.10 V	56	95.4	3.5
3	5350.00	54.6 PK	74.0	-19.4	1.10 V	56	51.2	3.4
4	5350.00	44.2 AV	54.0	-9.8	1.10 V	56	40.8	3.4
5	#10460.00	54.8 PK	68.2	-13.4	3.69 V	312	41.8	13.0
6	15690.00	46.5 PK	74.0	-27.5	1.62 V	113	32.6	13.9
7	15690.00	34.8 AV	54.0	-19.2	1.62 V	113	20.9	13.9

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 54	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	56.8 PK	74.0	-17.2	1.06 H	356	53.1	3.7
2	5150.00	46.9 AV	54.0	-7.1	1.06 H	356	43.2	3.7
3	*5270.00	112.0 PK			1.06 H	356	108.6	3.4
4	*5270.00	102.5 AV			1.06 H	356	99.1	3.4
5	5350.00	60.4 PK	74.0	-13.6	1.06 H	356	57.0	3.4
6	5350.00	51.0 AV	54.0	-3.0	1.06 H	356	47.6	3.4
7	#10540.00	53.7 PK	68.2	-14.5	1.19 H	113	40.7	13.0
8	15810.00	45.8 PK	74.0	-28.2	1.51 H	14	32.6	13.2
9	15810.00	34.8 AV	54.0	-19.2	1.51 H	14	21.6	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.8 PK	74.0	-19.2	1.13 V	60	51.1	3.7
2	5150.00	44.2 AV	54.0	-9.8	1.13 V	60	40.5	3.7
3	*5270.00	105.9 PK			1.13 V	60	102.5	3.4
4	*5270.00	99.2 AV			1.13 V	60	95.8	3.4
5	5350.00	58.4 PK	74.0	-15.6	1.13 V	60	55.0	3.4
6	5350.00	47.6 AV	54.0	-6.4	1.13 V	60	44.2	3.4
7	#10540.00	54.8 PK	68.2	-13.4	3.63 V	308	41.8	13.0
8	15810.00	46.9 PK	74.0	-27.1	1.60 V	97	33.7	13.2
9	15810.00	35.2 AV	54.0	-18.8	1.60 V	97	22.0	13.2

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 62	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	107.7 PK			1.68 H	353	104.4	3.3
2	*5310.00	99.5 AV			1.68 H	353	96.2	3.3
3	5350.00	58.9 PK	74.0	-15.1	1.68 H	353	55.5	3.4
4	5350.00	50.3 AV	54.0	-3.7	1.68 H	353	46.9	3.4
5	10620.00	52.0 PK	74.0	-22.0	1.24 H	97	39.1	12.9
6	10620.00	41.1 AV	54.0	-12.9	1.24 H	97	28.2	12.9
7	15930.00	46.0 PK	74.0	-28.0	1.55 H	13	33.2	12.8
8	15930.00	35.2 AV	54.0	-18.8	1.55 H	13	22.4	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	105.9 PK			1.02 V	51	102.6	3.3
2	*5310.00	95.6 AV			1.02 V	51	92.3	3.3
3	5350.00	57.7 PK	74.0	-16.3	1.02 V	51	54.3	3.4
4	5350.00	47.6 AV	54.0	-6.4	1.02 V	51	44.2	3.4
5	10620.00	51.8 PK	74.0	-22.2	3.62 V	314	38.9	12.9
6	10620.00	40.7 AV	54.0	-13.3	3.62 V	314	27.8	12.9
7	15930.00	45.4 PK	74.0	-28.6	1.66 V	103	32.6	12.8
8	15930.00	34.9 AV	54.0	-19.1	1.66 V	103	22.1	12.8

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	59.4 PK	74.0	-14.6	1.62 H	5	55.6	3.8
2	5460.00	50.4 AV	54.0	-3.6	1.62 H	5	46.6	3.8
3	#5470.00	59.6 PK	68.2	-8.6	1.62 H	5	55.7	3.9
4	*5510.00	108.5 PK			1.62 H	5	104.6	3.9
5	*5510.00	100.0 AV			1.62 H	5	96.1	3.9
6	11020.00	52.9 PK	74.0	-21.1	1.24 H	127	39.9	13.0
7	11020.00	42.5 AV	54.0	-11.5	1.24 H	127	29.5	13.0
8	#16530.00	46.6 PK	68.2	-21.6	1.58 H	14	31.9	14.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.8 PK	74.0	-15.2	1.05 V	50	55.0	3.8
2	5460.00	47.9 AV	54.0	-6.1	1.05 V	50	44.1	3.8
3	#5465.74	58.6 PK	68.2	-9.6	1.05 V	50	54.7	3.9
4	*5510.00	107.1 PK			1.05 V	50	103.2	3.9
5	*5510.00	97.7 AV			1.05 V	50	93.8	3.9
6	11020.00	53.2 PK	74.0	-20.8	3.78 V	295	40.2	13.0
7	11020.00	43.0 AV	54.0	-11.0	3.78 V	295	30.0	13.0
8	#16530.00	46.1 PK	68.2	-22.1	1.55 V	109	31.4	14.7

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 110	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.7 PK			1.06 H	343	107.9	3.8
2	*5550.00	102.3 AV			1.06 H	343	98.5	3.8
3	11100.00	53.2 PK	74.0	-20.8	1.18 H	117	40.2	13.0
4	11100.00	42.4 AV	54.0	-11.6	1.18 H	117	29.4	13.0
5	#16650.00	46.8 PK	68.2	-21.4	1.57 H	16	31.1	15.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	106.2 PK			1.09 V	71	102.4	3.8
2	*5550.00	99.3 AV			1.09 V	71	95.5	3.8
3	11100.00	55.0 PK	74.0	-19.0	3.74 V	306	42.0	13.0
4	11100.00	42.9 AV	54.0	-11.1	3.74 V	306	29.9	13.0
5	#16650.00	46.2 PK	68.2	-22.0	1.61 V	97	30.5	15.7

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 134	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	109.1 PK			1.00 H	355	105.1	4.0
2	*5670.00	100.6 AV			1.00 H	355	96.6	4.0
3	#5725.00	58.3 PK	68.2	-9.9	1.00 H	355	54.3	4.0
4	11340.00	53.5 PK	74.0	-20.5	1.18 H	128	40.3	13.2
5	11340.00	42.5 AV	54.0	-11.5	1.18 H	128	29.3	13.2
6	#17010.00	46.9 PK	68.2	-21.3	1.54 H	0	29.9	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	106.8 PK			1.11 V	73	102.8	4.0
2	*5670.00	99.7 AV			1.11 V	73	95.7	4.0
3	#5725.00	55.4 PK	68.2	-12.8	1.11 V	73	51.4	4.0
4	11340.00	55.0 PK	74.0	-19.0	3.65 V	305	41.8	13.2
5	11340.00	43.4 AV	54.0	-10.6	3.65 V	305	30.2	13.2
6	#17010.00	46.7 PK	68.2	-21.5	1.55 V	101	29.7	17.0

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 142	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.4 PK	74.0	-23.6	1.00 H	3	46.6	3.8
2	5460.00	39.9 AV	54.0	-14.1	1.00 H	3	36.1	3.8
3	#5470.00	51.6 PK	68.2	-16.6	1.00 H	3	47.7	3.9
4	*5710.00	112.4 PK			1.00 H	3	108.4	4.0
5	*5710.00	101.7 AV			1.00 H	3	97.7	4.0
6	#5850.00	56.9 PK	68.2	-11.3	1.00 H	3	52.5	4.4
7	11420.00	52.7 PK	74.0	-21.3	1.13 H	123	39.5	13.2
8	11420.00	42.1 AV	54.0	-11.9	1.13 H	123	28.9	13.2
9	#17130.00	46.6 PK	68.2	-21.6	1.57 H	13	29.4	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.4 PK	74.0	-23.6	1.08 V	69	46.6	3.8
2	5460.00	39.7 AV	54.0	-14.3	1.08 V	69	35.9	3.8
3	#5470.00	51.8 PK	68.2	-16.4	1.08 V	69	47.9	3.9
4	*5710.00	106.9 PK			1.08 V	69	102.9	4.0
5	*5710.00	99.8 AV			1.08 V	69	95.8	4.0
6	#5850.00	56.5 PK	68.2	-11.7	1.08 V	69	52.1	4.4
7	11420.00	54.4 PK	74.0	-19.6	3.68 V	297	41.2	13.2
8	11420.00	43.0 AV	54.0	-11.0	3.68 V	297	29.8	13.2
9	#17130.00	47.0 PK	68.2	-21.2	1.51 V	113	29.8	17.2

Remarks:

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

Channel	TX Channel 151	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5637.06	56.5 PK	68.2	-11.7	3.44 H	360	52.2	4.3
2	*5755.00	110.7 PK			3.44 H	360	106.7	4.0
3	*5755.00	100.9 AV			3.44 H	360	96.9	4.0
4	#5928.67	51.8 PK	68.2	-16.4	3.44 H	360	46.9	4.9
5	11510.00	49.7 PK	74.0	-24.3	2.79 H	311	36.4	13.3
6	11510.00	39.0 AV	54.0	-15.0	2.79 H	311	25.7	13.3
7	#17265.00	49.6 PK	68.2	-18.6	1.59 H	302	32.1	17.5

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5632.64	57.0 PK	68.2	-11.2	1.00 V	45	52.7	4.3
2	*5755.00	109.0 PK			1.00 V	45	105.0	4.0
3	*5755.00	99.1 AV			1.00 V	45	95.1	4.0
4	#5925.27	55.7 PK	68.2	-12.5	1.00 V	45	50.8	4.9
5	11510.00	49.2 PK	74.0	-24.8	2.15 V	209	35.9	13.3
6	11510.00	38.6 AV	54.0	-15.4	2.15 V	209	25.3	13.3
7	#17265.00	50.3 PK	68.2	-17.9	1.97 V	189	32.8	17.5

Remarks:

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

Channel	TX Channel 159	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5628.90	56.6 PK	68.2	-11.6	1.00 H	356	52.3	4.3
2	*5795.00	111.3 PK			1.00 H	356	107.1	4.2
3	*5795.00	101.6 AV			1.00 H	356	97.4	4.2
4	#5945.26	58.7 PK	68.2	-9.5	1.00 H	356	53.8	4.9
5	11590.00	50.2 PK	74.0	-23.8	2.82 H	325	36.9	13.3
6	11590.00	39.3 AV	54.0	-14.7	2.82 H	325	26.0	13.3
7	#17385.00	49.3 PK	68.2	-18.9	1.56 H	304	31.6	17.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5640.10	55.4 PK	68.2	-12.8	1.03 V	48	51.1	4.3
2	*5795.00	107.9 PK			1.03 V	48	103.7	4.2
3	*5795.00	98.7 AV			1.03 V	48	94.5	4.2
4	#5947.47	55.5 PK	68.2	-12.7	1.03 V	48	50.6	4.9
5	11590.00	49.4 PK	74.0	-24.6	2.16 V	217	36.1	13.3
6	11590.00	38.8 AV	54.0	-15.2	2.16 V	217	25.5	13.3
7	#17385.00	50.8 PK	68.2	-17.4	1.92 V	198	33.1	17.7

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.

802.11ax (HE80)

Channel	TX Channel 42	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.81 H	359	55.3	3.7
2	5150.00	50.4 AV	54.0	-3.6	1.81 H	359	46.7	3.7
3	*5210.00	101.7 PK			1.81 H	359	98.1	3.6
4	*5210.00	94.4 AV			1.81 H	359	90.8	3.6
5	5350.00	49.3 PK	74.0	-24.7	1.81 H	359	45.9	3.4
6	5350.00	40.2 AV	54.0	-13.8	1.81 H	359	36.8	3.4
7	#10420.00	47.1 PK	68.2	-21.1	1.51 H	75	34.3	12.8
8	15630.00	44.8 PK	74.0	-29.2	1.54 H	3	31.1	13.7
9	15630.00	33.5 AV	54.0	-20.5	1.54 H	3	19.8	13.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	1.02 V	48	54.5	3.7
2	5150.00	48.4 AV	54.0	-5.6	1.02 V	48	44.7	3.7
3	*5210.00	98.1 PK			1.02 V	48	94.5	3.6
4	*5210.00	90.5 AV			1.02 V	48	86.9	3.6
5	5350.00	50.7 PK	74.0	-23.3	1.02 V	48	47.3	3.4
6	5350.00	40.1 AV	54.0	-13.9	1.02 V	48	36.7	3.4
7	#10420.00	48.5 PK	68.2	-19.7	1.34 V	68	35.7	12.8
8	15630.00	44.8 PK	74.0	-29.2	1.23 V	51	31.1	13.7
9	15630.00	33.7 AV	54.0	-20.3	1.23 V	51	20.0	13.7

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 58	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	52.3 PK	74.0	-21.7	1.59 H	357	48.6	3.7
2	5150.00	42.0 AV	54.0	-12.0	1.59 H	357	38.3	3.7
3	*5290.00	102.0 PK			1.59 H	357	98.7	3.3
4	*5290.00	94.8 AV			1.59 H	357	91.5	3.3
5	5350.00	57.7 PK	74.0	-16.3	1.59 H	357	54.3	3.4
6	5350.00	48.3 AV	54.0	-5.7	1.59 H	357	44.9	3.4
7	#10580.00	47.4 PK	68.2	-20.8	1.49 H	68	34.5	12.9
8	15870.00	45.0 PK	74.0	-29.0	1.58 H	351	32.1	12.9
9	15870.00	33.6 AV	54.0	-20.4	1.58 H	351	20.7	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.5 PK	74.0	-23.5	1.03 V	53	46.8	3.7
2	5150.00	41.5 AV	54.0	-12.5	1.03 V	53	37.8	3.7
3	*5290.00	101.3 PK			1.03 V	53	98.0	3.3
4	*5290.00	92.2 AV			1.03 V	53	88.9	3.3
5	5350.00	54.0 PK	74.0	-20.0	1.03 V	53	50.6	3.4
6	5350.00	46.2 AV	54.0	-7.8	1.03 V	53	42.8	3.4
7	#10580.00	48.9 PK	68.2	-19.3	1.39 V	74	36.0	12.9
8	15870.00	45.5 PK	74.0	-28.5	1.27 V	48	32.6	12.9
9	15870.00	34.1 AV	54.0	-19.9	1.27 V	48	21.2	12.9

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 106	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.0 PK	74.0	-17.0	1.23 H	360	53.2	3.8
2	5460.00	48.5 AV	54.0	-5.5	1.23 H	360	44.7	3.8
3	#5469.04	59.4 PK	68.2	-8.8	1.23 H	360	55.5	3.9
4	*5530.00	103.5 PK			1.23 H	360	99.7	3.8
5	*5530.00	95.7 AV			1.23 H	360	91.9	3.8
6	#5747.11	51.0 PK	68.2	-17.2	1.23 H	360	47.0	4.0
7	11060.00	47.6 PK	74.0	-26.4	1.54 H	62	34.7	12.9
8	11060.00	38.8 AV	54.0	-15.2	1.54 H	62	25.9	12.9
9	#16590.00	44.4 PK	68.2	-23.8	1.61 H	360	29.5	14.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	57.5 PK	74.0	-16.5	1.02 V	51	53.7	3.8
2	5460.00	48.5 AV	54.0	-5.5	1.02 V	51	44.7	3.8
3	#5470.00	54.1 PK	68.2	-14.1	1.02 V	51	50.2	3.9
4	*5530.00	102.7 PK			1.02 V	51	98.9	3.8
5	*5530.00	93.1 AV			1.02 V	51	89.3	3.8
6	#5831.26	50.8 PK	68.2	-17.4	1.02 V	51	46.5	4.3
7	11060.00	48.7 PK	74.0	-25.3	1.47 V	81	35.8	12.9
8	11060.00	39.3 AV	54.0	-14.7	1.47 V	81	26.4	12.9
9	#16590.00	44.7 PK	68.2	-23.5	1.29 V	54	29.8	14.9

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	107.2 PK			1.50 H	2	103.5	3.7
2	*5610.00	98.1 AV			1.50 H	2	94.4	3.7
3	#5725.00	55.5 PK	68.2	-12.7	1.50 H	2	51.5	4.0
4	11220.00	47.0 PK	74.0	-27.0	1.47 H	68	33.8	13.2
5	11220.00	38.3 AV	54.0	-15.7	1.47 H	68	25.1	13.2
6	#16830.00	45.5 PK	68.2	-22.7	1.56 H	4	29.4	16.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	104.8 PK			1.05 V	51	101.1	3.7
2	*5610.00	94.2 AV			1.05 V	51	90.5	3.7
3	#5725.00	52.4 PK	68.2	-15.8	1.05 V	51	48.4	4.0
4	11220.00	48.8 PK	74.0	-25.2	1.46 V	77	35.6	13.2
5	11220.00	39.4 AV	54.0	-14.6	1.46 V	77	26.2	13.2
6	#16830.00	45.1 PK	68.2	-23.1	1.30 V	49	29.0	16.1

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 138	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.6 PK	74.0	-23.4	1.53 H	16	46.8	3.8
2	5460.00	40.1 AV	54.0	-13.9	1.53 H	16	36.3	3.8
3	#5470.00	51.3 PK	68.2	-16.9	1.53 H	16	47.4	3.9
4	*5690.00	107.1 PK			1.53 H	16	103.1	4.0
5	*5690.00	97.8 AV			1.53 H	16	93.8	4.0
6	#5850.00	56.6 PK	68.2	-11.6	1.53 H	16	52.2	4.4
7	11380.00	47.3 PK	74.0	-26.7	1.47 H	71	34.1	13.2
8	11380.00	38.2 AV	54.0	-15.8	1.47 H	71	25.0	13.2
9	#17070.00	45.1 PK	68.2	-23.1	1.58 H	353	28.1	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.9 PK	74.0	-23.1	1.10 V	63	47.1	3.8
2	5460.00	40.2 AV	54.0	-13.8	1.10 V	63	36.4	3.8
3	#5470.00	50.8 PK	68.2	-17.4	1.10 V	63	46.9	3.9
4	*5690.00	105.1 PK			1.10 V	63	101.1	4.0
5	*5690.00	94.3 AV			1.10 V	63	90.3	4.0
6	#5850.00	56.9 PK	68.2	-11.3	1.10 V	63	52.5	4.4
7	11380.00	48.8 PK	74.0	-25.2	1.41 V	67	35.6	13.2
8	11380.00	39.5 AV	54.0	-14.5	1.41 V	67	26.3	13.2
9	#17070.00	44.6 PK	68.2	-23.6	1.33 V	63	27.6	17.0

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 155	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.43	57.1 PK	68.2	-11.1	1.00 H	359	52.8	4.3
2	*5775.00	107.3 PK			1.00 H	359	103.2	4.1
3	*5775.00	97.7 AV			1.00 H	359	93.6	4.1
4	#5951.90	53.6 PK	68.2	-14.6	1.00 H	359	48.7	4.9
5	11550.00	49.6 PK	74.0	-24.4	2.83 H	322	36.4	13.2
6	11550.00	38.9 AV	54.0	-15.1	2.83 H	322	25.7	13.2
7	#17325.00	49.2 PK	68.2	-19.0	1.57 H	310	31.6	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5641.39	55.0 PK	68.2	-13.2	1.07 V	47	50.7	4.3
2	*5775.00	104.2 PK			1.07 V	47	100.1	4.1
3	*5775.00	94.8 AV			1.07 V	47	90.7	4.1
4	#5929.37	53.8 PK	68.2	-14.4	1.07 V	47	48.9	4.9
5	11550.00	49.6 PK	74.0	-24.4	2.18 V	212	36.4	13.2
6	11550.00	38.9 AV	54.0	-15.1	2.18 V	212	25.7	13.2
7	#17325.00	50.0 PK	68.2	-18.2	1.98 V	180	32.4	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.

Below 1GHz Data:

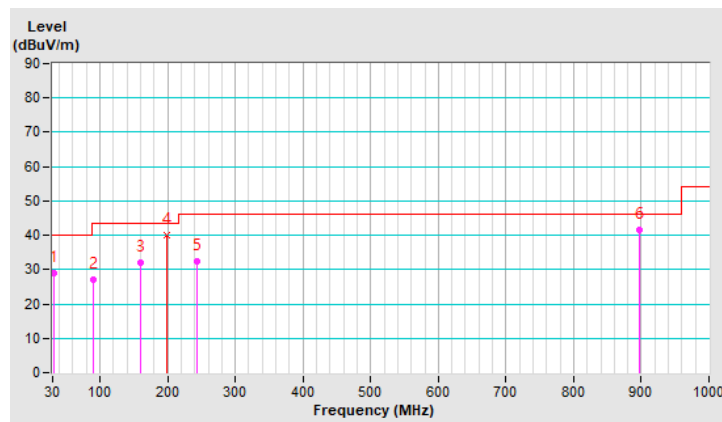
802.11a

CHANNEL	TX Channel 165	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	31.43	28.8 QP	40.0	-11.2	3.00 H	166	37.7	-8.9
2	90.00	27.2 QP	43.5	-16.3	1.00 H	155	40.4	-13.2
3	160.26	32.1 QP	43.5	-11.4	2.00 H	199	38.9	-6.8
4	199.11	40.0 QP	43.5	-3.5	1.00 H	307	50.1	-10.1
5	243.85	32.5 QP	46.0	-13.5	1.50 H	180	40.6	-8.1
6	897.83	41.6 QP	46.0	-4.4	1.50 H	238	34.3	7.3

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

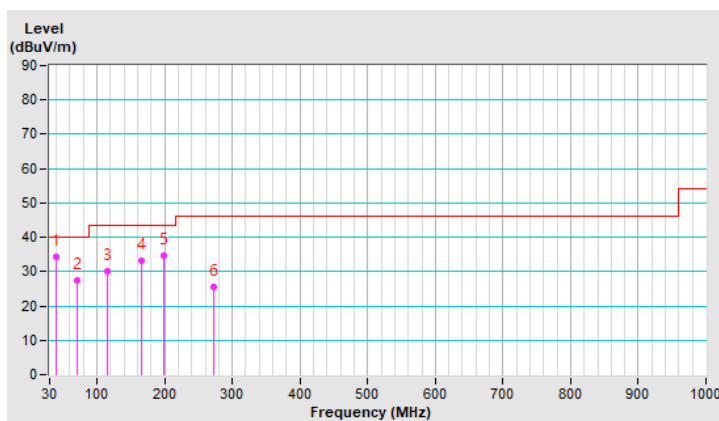


Channel	TX Channel 165	Detector Function	Quasi-Peak (QP)
Frequency Range	9kHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.00	34.4 QP	40.0	-5.6	1.00 V	26	42.6	-8.2
2	69.90	27.4 QP	40.0	-12.6	1.00 V	165	37.4	-10.0
3	115.22	30.1 QP	43.5	-13.4	1.00 V	224	39.6	-9.5
4	166.00	33.1 QP	43.5	-10.4	1.00 V	251	40.1	-7.0
5	199.23	34.8 QP	43.5	-8.7	1.50 V	297	44.9	-10.1
6	271.65	25.4 QP	46.0	-20.6	1.00 V	239	32.4	-7.0

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



4.1.8 Test Results (Mode 2)

Above 1GHz Data:

802.11a

Channel	TX Channel 36	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.8 PK	74.0	-20.2	3.75 H	198	50.1	3.7
2	5150.00	44.0 AV	54.0	-10.0	3.75 H	198	40.3	3.7
3	*5180.00	101.3 PK			3.75 H	198	97.7	3.6
4	*5180.00	93.9 AV			3.75 H	198	90.3	3.6
5	#10360.00	58.6 PK	68.2	-9.6	1.28 H	96	45.9	12.7
6	15540.00	45.3 PK	74.0	-28.7	1.38 H	119	32.1	13.2
7	15540.00	34.0 AV	54.0	-20.0	1.38 H	119	20.8	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.5 PK	74.0	-15.5	1.16 V	176	54.8	3.7
2	5150.00	50.1 AV	54.0	-3.9	1.16 V	176	46.4	3.7
3	*5180.00	109.6 PK			1.16 V	176	106.0	3.6
4	*5180.00	102.5 AV			1.16 V	176	98.9	3.6
5	#10360.00	64.2 PK	68.2	-4.0	3.76 V	151	51.5	12.7
6	15540.00	46.6 PK	74.0	-27.4	1.75 V	74	33.4	13.2
7	15540.00	34.8 AV	54.0	-19.2	1.75 V	74	21.6	13.2

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	104.4 PK			3.70 H	207	100.9	3.5
2	*5200.00	95.3 AV			3.70 H	207	91.8	3.5
3	#10400.00	60.3 PK	68.2	-7.9	1.24 H	103	47.5	12.8
4	15600.00	45.1 PK	74.0	-28.9	1.42 H	112	31.6	13.5
5	15600.00	35.7 AV	54.0	-18.3	1.42 H	112	22.2	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	110.4 PK			1.16 V	178	106.9	3.5
2	*5200.00	103.1 AV			1.16 V	178	99.6	3.5
3	#10400.00	65.1 PK	68.2	-3.1	3.75 V	141	52.3	12.8
4	15600.00	46.6 PK	74.0	-27.4	1.75 V	70	33.1	13.5
5	15600.00	35.9 AV	54.0	-18.1	1.75 V	70	22.4	13.5

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 48	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	104.5 PK			3.80 H	183	101.0	3.5
2	*5240.00	96.4 AV			3.80 H	183	92.9	3.5
3	5350.00	53.8 PK	74.0	-20.2	3.80 H	183	50.4	3.4
4	5350.00	44.2 AV	54.0	-9.8	3.80 H	183	40.8	3.4
5	#10480.00	61.5 PK	68.2	-6.7	1.26 H	109	48.4	13.1
6	15720.00	45.5 PK	74.0	-28.5	1.37 H	113	31.7	13.8
7	15720.00	36.2 AV	54.0	-17.8	1.37 H	113	22.4	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	110.9 PK			1.14 V	170	107.4	3.5
2	*5240.00	104.0 AV			1.14 V	170	100.5	3.5
3	5350.00	58.0 PK	74.0	-16.0	1.14 V	170	54.6	3.4
4	5350.00	49.8 AV	54.0	-4.2	1.14 V	170	46.4	3.4
5	#10480.00	66.6 PK	68.2	-1.6	3.69 V	139	53.5	13.1
6	15720.00	46.5 PK	74.0	-27.5	1.74 V	56	32.7	13.8
7	15720.00	37.0 AV	54.0	-17.0	1.74 V	56	23.2	13.8

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 52	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.3 PK	74.0	-20.7	1.05 H	125	49.6	3.7
2	5150.00	43.8 AV	54.0	-10.2	1.05 H	125	40.1	3.7
3	*5260.00	105.3 PK			1.05 H	125	101.9	3.4
4	*5260.00	97.3 AV			1.05 H	125	93.9	3.4
5	#10520.00	62.3 PK	68.2	-5.9	1.05 H	106	49.2	13.1
6	15780.00	44.9 PK	74.0	-29.1	1.37 H	124	31.4	13.5
7	15780.00	35.7 AV	54.0	-18.3	1.37 H	124	22.2	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	150.00	55.8 PK	74.0	-18.2	1.12 V	138	55.8	0.0
2	150.00	47.9 AV	54.0	-6.1	1.12 V	138	47.9	0.0
3	*5260.00	111.1 PK			1.12 V	138	107.7	3.4
4	*5260.00	104.5 AV			1.12 V	138	101.1	3.4
5	#10520.00	63.2 PK	68.2	-5.0	3.98 V	99	50.1	13.1
6	15780.00	47.0 PK	74.0	-27.0	1.71 V	38	33.5	13.5
7	15780.00	37.5 AV	54.0	-16.5	1.71 V	38	24.0	13.5

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 60	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	105.6 PK			1.11 H	122	102.3	3.3
2	*5300.00	97.8 AV			1.11 H	122	94.5	3.3
3	10600.00	62.6 PK	74.0	-11.4	1.00 H	122	49.7	12.9
4	10600.00	52.7 AV	54.0	-1.3	1.00 H	122	39.8	12.9
5	15900.00	44.9 PK	74.0	-29.1	1.38 H	115	32.1	12.8
6	15900.00	35.8 AV	54.0	-18.2	1.38 H	115	23.0	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.5 PK			1.08 V	132	108.2	3.3
2	*5300.00	104.8 AV			1.08 V	132	101.5	3.3
3	10600.00	63.6 PK	74.0	-10.4	4.00 V	113	50.7	12.9
4	10600.00	52.8 AV	54.0	-1.2	4.00 V	113	39.9	12.9
5	15900.00	47.5 PK	74.0	-26.5	1.71 V	45	34.7	12.8
6	15900.00	38.0 AV	54.0	-16.0	1.71 V	45	25.2	12.8

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 64	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	102.3 PK			3.62 H	202	98.9	3.4
2	*5320.00	94.2 AV			3.62 H	202	90.8	3.4
3	5350.00	51.0 PK	74.0	-23.0	3.62 H	202	47.6	3.4
4	5350.00	43.0 AV	54.0	-11.0	3.62 H	202	39.6	3.4
5	10640.00	62.7 PK	74.0	-11.3	1.03 H	119	49.8	12.9
6	10640.00	52.8 AV	54.0	-1.2	1.03 H	119	39.9	12.9
7	15960.00	44.8 PK	74.0	-29.2	1.37 H	118	32.0	12.8
8	15960.00	35.6 AV	54.0	-18.4	1.37 H	118	22.8	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.2 PK			1.09 V	96	107.8	3.4
2	*5320.00	102.8 AV			1.09 V	96	99.4	3.4
3	5350.00	59.4 PK	74.0	-14.6	1.09 V	96	56.0	3.4
4	5350.00	49.3 AV	54.0	-4.7	1.09 V	96	45.9	3.4
5	10640.00	63.8 PK	74.0	-10.2	4.00 V	115	50.9	12.9
6	10640.00	53.0 AV	54.0	-1.0	4.00 V	115	40.1	12.9
7	15960.00	47.5 PK	74.0	-26.5	1.68 V	51	34.7	12.8
8	15960.00	38.0 AV	54.0	-16.0	1.68 V	51	25.2	12.8

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 100	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.9 PK	74.0	-20.1	1.00 H	134	50.1	3.8
2	5460.00	44.7 AV	54.0	-9.3	1.00 H	134	40.9	3.8
3	#5468.48	53.7 PK	68.2	-14.5	1.00 H	134	49.8	3.9
4	*5500.00	103.3 PK			1.00 H	134	99.4	3.9
5	*5500.00	96.3 AV			1.00 H	134	92.4	3.9
6	11000.00	62.0 PK	74.0	-12.0	1.05 H	148	49.0	13.0
7	11000.00	52.5 AV	54.0	-1.5	1.05 H	148	39.5	13.0
8	#16500.00	44.9 PK	68.2	-23.3	1.32 H	94	30.3	14.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	61.0 PK	74.0	-13.0	1.15 V	129	57.2	3.8
2	5460.00	50.0 AV	54.0	-4.0	1.15 V	129	46.2	3.8
3	#5470.00	66.3 PK	68.2	-1.9	1.15 V	129	62.4	3.9
4	*5500.00	109.1 PK			1.15 V	129	105.2	3.9
5	*5500.00	102.1 AV			1.15 V	129	98.2	3.9
6	11000.00	63.3 PK	74.0	-10.7	4.00 V	122	50.3	13.0
7	11000.00	52.4 AV	54.0	-1.6	4.00 V	122	39.4	13.0
8	#16500.00	47.4 PK	68.2	-20.8	1.71 V	40	32.8	14.6

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 116	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.3 PK			1.08 H	124	102.5	3.8
2	*5580.00	98.6 AV			1.08 H	124	94.8	3.8
3	11160.00	62.9 PK	74.0	-11.1	1.00 H	118	49.8	13.1
4	11160.00	53.1 AV	54.0	-0.9	1.00 H	118	40.0	13.1
5	#16740.00	45.2 PK	68.2	-23.0	1.36 H	129	29.0	16.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	111.7 PK			1.16 V	148	107.9	3.8
2	*5580.00	105.4 AV			1.16 V	148	101.6	3.8
3	11160.00	64.0 PK	74.0	-10.0	3.99 V	103	50.9	13.1
4	11160.00	53.3 AV	54.0	-0.7	3.99 V	103	40.2	13.1
5	#16740.00	47.4 PK	68.2	-20.8	1.72 V	53	31.2	16.2

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 140	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	105.8 PK			1.07 H	110	101.8	4.0
2	*5700.00	97.4 AV			1.07 H	110	93.4	4.0
3	#5725.00	55.4 PK	68.2	-12.8	1.07 H	110	51.4	4.0
4	11400.00	62.9 PK	74.0	-11.1	1.00 H	114	49.7	13.2
5	11400.00	52.9 AV	54.0	-1.1	1.00 H	114	39.7	13.2
6	#17100.00	44.9 PK	68.2	-23.3	1.38 H	127	27.7	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	111.4 PK			1.11 V	110	107.4	4.0
2	*5700.00	104.1 AV			1.11 V	110	100.1	4.0
3	#5725.00	65.3 PK	68.2	-2.9	1.11 V	110	61.3	4.0
4	11400.00	62.7 PK	74.0	-11.3	3.98 V	133	49.5	13.2
5	11400.00	51.9 AV	54.0	-2.1	3.98 V	133	38.7	13.2
6	#17100.00	47.2 PK	68.2	-21.0	1.65 V	53	30.0	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 144	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	50.5 PK	74.0	-23.5	1.05 H	129	46.7	3.8
2	5460.00	40.8 AV	54.0	-13.2	1.05 H	129	37.0	3.8
3	#5470.00	51.3 PK	68.2	-16.9	1.05 H	129	47.4	3.9
4	*5720.00	105.6 PK			1.05 H	129	101.7	3.9
5	*5720.00	97.8 AV			1.05 H	129	93.9	3.9
6	#5850.00	61.0 PK	68.2	-7.2	1.05 H	129	56.6	4.4
7	11440.00	62.2 PK	74.0	-11.8	1.06 H	148	48.9	13.3
8	11440.00	52.6 AV	54.0	-1.4	1.06 H	148	39.3	13.3
9	#17160.00	45.5 PK	68.2	-22.7	1.36 H	107	28.1	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.1 PK	74.0	-22.9	1.13 V	140	47.3	3.8
2	5460.00	41.0 AV	54.0	-13.0	1.13 V	140	37.2	3.8
3	#5470.00	52.0 PK	68.2	-16.2	1.13 V	140	48.1	3.9
4	*5720.00	111.9 PK			1.13 V	140	108.0	3.9
5	*5720.00	104.9 AV			1.13 V	140	101.0	3.9
6	#5850.00	61.4 PK	68.2	-6.8	1.13 V	140	57.0	4.4
7	11440.00	63.7 PK	74.0	-10.3	4.00 V	100	50.4	13.3
8	11440.00	52.9 AV	54.0	-1.1	4.00 V	100	39.6	13.3
9	#17160.00	48.1 PK	68.2	-20.1	1.77 V	61	30.7	17.4

Remarks:

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

Channel	TX Channel 149	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5594.63	55.3 PK	68.2	-12.9	1.00 H	175	51.5	3.8
2	*5745.00	103.5 PK			1.00 H	175	99.5	4.0
3	*5745.00	96.3 AV			1.00 H	175	92.3	4.0
4	#5958.05	55.1 PK	68.2	-13.1	1.00 H	175	50.5	4.6
5	11490.00	58.8 PK	74.0	-15.2	1.14 H	76	45.5	13.3
6	11490.00	47.5 AV	54.0	-6.5	1.14 H	76	34.2	13.3
7	#17235.00	46.0 PK	68.2	-22.2	1.38 H	122	28.4	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5624.71	59.9 PK	68.2	-8.3	1.08 V	107	56.1	3.8
2	*5745.00	113.7 PK			1.08 V	107	109.7	4.0
3	*5745.00	106.6 AV			1.08 V	107	102.6	4.0
4	#5946.73	56.3 PK	68.2	-11.9	1.08 V	107	51.7	4.6
5	11490.00	53.6 PK	74.0	-20.4	1.16 V	124	40.3	13.3
6	11490.00	43.8 AV	54.0	-10.2	1.16 V	124	30.5	13.3
7	#17235.00	48.0 PK	68.2	-20.2	1.80 V	55	30.4	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 157	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5582.18	54.8 PK	68.2	-13.4	1.05 H	186	51.0	3.8
2	*5785.00	103.9 PK			1.05 H	186	99.8	4.1
3	*5785.00	96.4 AV			1.05 H	186	92.3	4.1
4	#5988.88	55.3 PK	68.2	-12.9	1.05 H	186	50.5	4.8
5	11570.00	58.8 PK	74.0	-15.2	1.14 H	76	45.6	13.2
6	11570.00	47.5 AV	54.0	-6.5	1.14 H	76	34.3	13.2
7	#17355.00	46.0 PK	68.2	-22.2	1.38 H	122	28.4	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5647.66	58.8 PK	68.2	-9.4	1.10 V	98	54.8	4.0
2	*5785.00	114.0 PK			1.10 V	98	109.9	4.1
3	*5785.00	106.8 AV			1.10 V	98	102.7	4.1
4	#5940.07	59.3 PK	68.2	-8.9	1.10 V	98	54.6	4.7
5	11570.00	53.3 PK	74.0	-20.7	1.11 V	123	40.1	13.2
6	11570.00	43.6 AV	54.0	-10.4	1.11 V	123	30.4	13.2
7	#17355.00	47.4 PK	68.2	-20.8	1.84 V	62	29.8	17.6

Remarks:

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

Channel	TX Channel 165	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.16	54.7 PK	68.2	-13.5	1.01 H	180	50.9	3.8
2	*5825.00	103.0 PK			1.01 H	180	98.7	4.3
3	*5825.00	95.9 AV			1.01 H	180	91.6	4.3
4	#6002.20	55.6 PK	68.2	-12.6	1.01 H	180	50.7	4.9
5	11650.00	58.8 PK	74.0	-15.2	1.14 H	76	45.5	13.3
6	11650.00	47.5 AV	54.0	-6.5	1.14 H	76	34.2	13.3
7	#17475.00	46.0 PK	68.2	-22.2	1.38 H	122	28.1	17.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5649.09	56.9 PK	68.2	-11.3	1.04 V	96	52.9	4.0
2	*5825.00	114.1 PK			1.04 V	96	109.8	4.3
3	*5825.00	106.8 AV			1.04 V	96	102.5	4.3
4	#5933.54	58.3 PK	68.2	-9.9	1.04 V	96	53.8	4.5
5	11650.00	53.3 PK	74.0	-20.7	1.22 V	115	40.0	13.3
6	11650.00	43.5 AV	54.0	-10.5	1.22 V	115	30.2	13.3
7	#17475.00	47.6 PK	68.2	-20.6	1.76 V	64	29.7	17.9

Remarks:

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

802.11ax (HE20)

Channel	TX Channel 36	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5109.94	53.0 PK	74.0	-21.0	3.75 H	199	49.3	3.7
2	5109.94	43.5 AV	54.0	-10.5	3.75 H	199	39.8	3.7
3	*5180.00	103.9 PK			3.75 H	199	100.3	3.6
4	*5180.00	94.0 AV			3.75 H	199	90.4	3.6
5	#10360.00	53.7 PK	68.2	-14.5	1.26 H	93	41.0	12.7
6	15540.00	44.7 PK	74.0	-29.3	1.46 H	112	31.5	13.2
7	15540.00	35.3 AV	54.0	-18.7	1.46 H	112	22.1	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.08 V	176	56.0	3.7
2	5150.00	50.6 AV	54.0	-3.4	1.08 V	176	46.9	3.7
3	*5180.00	110.4 PK			1.08 V	176	106.8	3.6
4	*5180.00	101.3 AV			1.08 V	176	97.7	3.6
5	#10360.00	58.6 PK	68.2	-9.6	3.82 V	121	45.9	12.7
6	15540.00	46.9 PK	74.0	-27.1	1.76 V	55	33.7	13.2
7	15540.00	37.5 AV	54.0	-16.5	1.76 V	55	24.3	13.2

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	105.0 PK			1.10 H	95	101.5	3.5
2	*5200.00	95.2 AV			1.10 H	95	91.7	3.5
3	#10400.00	53.6 PK	68.2	-14.6	1.28 H	82	40.8	12.8
4	15600.00	44.7 PK	74.0	-29.3	1.47 H	104	31.2	13.5
5	15600.00	35.2 AV	54.0	-18.8	1.47 H	104	21.7	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5200.00	111.6 PK			1.15 V	199	108.1	3.5
2	*5200.00	102.1 AV			1.15 V	199	98.6	3.5
3	#10400.00	60.2 PK	68.2	-8.0	3.78 V	116	47.4	12.8
4	15600.00	46.3 PK	74.0	-27.7	1.74 V	66	32.8	13.5
5	15600.00	37.1 AV	54.0	-16.9	1.74 V	66	23.6	13.5

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 48	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	106.6 PK			1.08 H	83	103.1	3.5
2	*5240.00	96.3 AV			1.08 H	83	92.8	3.5
3	5350.00	53.3 PK	74.0	-20.7	1.08 H	83	49.9	3.4
4	5350.00	44.5 AV	54.0	-9.5	1.08 H	83	41.1	3.4
5	#10480.00	54.9 PK	68.2	-13.3	1.32 H	69	41.8	13.1
6	15720.00	44.9 PK	74.0	-29.1	1.47 H	103	31.1	13.8
7	15720.00	35.2 AV	54.0	-18.8	1.47 H	103	21.4	13.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5240.00	112.2 PK			1.10 V	191	108.7	3.5
2	*5240.00	103.2 AV			1.10 V	191	99.7	3.5
3	5350.00	60.6 PK	74.0	-13.4	1.10 V	191	57.2	3.4
4	5350.00	48.7 AV	54.0	-5.3	1.10 V	191	45.3	3.4
5	#10480.00	61.3 PK	68.2	-6.9	3.75 V	129	48.2	13.1
6	15720.00	46.5 PK	74.0	-27.5	1.69 V	58	32.7	13.8
7	15720.00	37.2 AV	54.0	-16.8	1.69 V	58	23.4	13.8

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 52	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.1 PK	74.0	-20.9	1.05 H	95	49.4	3.7
2	5150.00	43.4 AV	54.0	-10.6	1.05 H	95	39.7	3.7
3	*5260.00	106.9 PK			1.05 H	95	103.5	3.4
4	*5260.00	96.8 AV			1.05 H	95	93.4	3.4
5	#10520.00	58.0 PK	68.2	-10.2	1.07 H	136	44.9	13.1
6	15780.00	47.0 PK	74.0	-27.0	1.39 H	100	33.5	13.5
7	15780.00	37.7 AV	54.0	-16.3	1.39 H	100	24.2	13.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.9 PK	74.0	-13.1	1.16 V	211	57.2	3.7
2	5150.00	49.2 AV	54.0	-4.8	1.16 V	211	45.5	3.7
3	*5260.00	112.5 PK			1.16 V	211	109.1	3.4
4	*5260.00	103.6 AV			1.16 V	211	100.2	3.4
5	#10520.00	58.9 PK	68.2	-9.3	3.96 V	107	45.8	13.1
6	15780.00	47.8 PK	74.0	-26.2	1.74 V	61	34.3	13.5
7	15780.00	38.2 AV	54.0	-15.8	1.74 V	61	24.7	13.5

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 60	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	105.9 PK			1.09 H	89	102.6	3.3
2	*5300.00	95.9 AV			1.09 H	89	92.6	3.3
3	10600.00	58.4 PK	74.0	-15.6	1.05 H	131	45.5	12.9
4	10600.00	48.0 AV	54.0	-6.0	1.05 H	131	35.1	12.9
5	15900.00	47.5 PK	74.0	-26.5	1.41 H	103	34.7	12.8
6	15900.00	38.2 AV	54.0	-15.8	1.41 H	103	25.4	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5300.00	111.6 PK			1.20 V	224	108.3	3.3
2	*5300.00	102.9 AV			1.20 V	224	99.6	3.3
3	10600.00	58.9 PK	74.0	-15.1	4.00 V	92	46.0	12.9
4	10600.00	48.4 AV	54.0	-5.6	4.00 V	92	35.5	12.9
5	15900.00	48.0 PK	74.0	-26.0	1.72 V	76	35.2	12.8
6	15900.00	38.4 AV	54.0	-15.6	1.72 V	76	25.6	12.8

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 64	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	103.7 PK			3.39 H	234	100.3	3.4
2	*5320.00	93.5 AV			3.39 H	234	90.1	3.4
3	5350.00	52.6 PK	74.0	-21.4	3.39 H	234	49.2	3.4
4	5350.00	43.5 AV	54.0	-10.5	3.39 H	234	40.1	3.4
5	10640.00	53.4 PK	74.0	-20.6	1.25 H	85	40.5	12.9
6	10640.00	47.0 AV	54.0	-7.0	1.25 H	85	34.1	12.9
7	15960.00	44.2 PK	74.0	-29.8	1.46 H	99	31.4	12.8
8	15960.00	35.0 AV	54.0	-19.0	1.46 H	99	22.2	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5320.00	111.6 PK			1.07 V	66	108.2	3.4
2	*5320.00	101.1 AV			1.07 V	66	97.7	3.4
3	5350.00	60.6 PK	74.0	-13.4	1.07 V	66	57.2	3.4
4	5350.00	48.8 AV	54.0	-5.2	1.07 V	66	45.4	3.4
5	10640.00	57.5 PK	74.0	-16.5	3.92 V	96	44.6	12.9
6	10640.00	47.3 AV	54.0	-6.7	3.92 V	96	34.4	12.9
7	15960.00	48.1 PK	74.0	-25.9	1.72 V	80	35.3	12.8
8	15960.00	37.8 AV	54.0	-16.2	1.72 V	80	25.0	12.8

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 100	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.8 PK	74.0	-22.2	1.04 H	134	48.0	3.8
2	5460.00	43.5 AV	54.0	-10.5	1.04 H	134	39.7	3.8
3	#5470.00	52.3 PK	68.2	-15.9	1.04 H	134	48.4	3.9
4	*5500.00	104.6 PK			1.04 H	134	100.7	3.9
5	*5500.00	94.0 AV			1.04 H	134	90.1	3.9
6	11000.00	57.4 PK	74.0	-16.6	1.08 H	141	44.4	13.0
7	11000.00	46.9 AV	54.0	-7.1	1.08 H	141	33.9	13.0
8	#16500.00	47.6 PK	68.2	-20.6	1.38 H	110	33.0	14.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	58.6 PK	74.0	-15.4	1.07 V	139	54.8	3.8
2	5460.00	48.7 AV	54.0	-5.3	1.07 V	139	44.9	3.8
3	#5470.00	60.2 PK	68.2	-8.0	1.07 V	139	56.3	3.9
4	*5500.00	109.8 PK			1.07 V	139	105.9	3.9
5	*5500.00	100.0 AV			1.07 V	139	96.1	3.9
6	11000.00	57.8 PK	74.0	-16.2	4.00 V	95	44.8	13.0
7	11000.00	47.3 AV	54.0	-6.7	4.00 V	95	34.3	13.0
8	#16500.00	47.6 PK	68.2	-20.6	1.75 V	71	33.0	14.6

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 116	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	106.0 PK			1.11 H	99	102.2	3.8
2	*5580.00	96.0 AV			1.11 H	99	92.2	3.8
3	11160.00	58.3 PK	74.0	-15.7	1.09 H	140	45.2	13.1
4	11160.00	47.7 AV	54.0	-6.3	1.09 H	140	34.6	13.1
5	#16740.00	48.1 PK	68.2	-20.1	1.39 H	116	31.9	16.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5580.00	112.4 PK			1.15 V	226	108.6	3.8
2	*5580.00	103.3 AV			1.15 V	226	99.5	3.8
3	11160.00	59.5 PK	74.0	-14.5	3.91 V	109	46.4	13.1
4	11160.00	48.8 AV	54.0	-5.2	3.91 V	109	35.7	13.1
5	#16740.00	48.6 PK	68.2	-19.6	1.78 V	55	32.4	16.2

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 140	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	104.8 PK			1.15 H	110	100.8	4.0
2	*5700.00	95.1 AV			1.15 H	110	91.1	4.0
3	#5725.00	60.3 PK	68.2	-7.9	1.15 H	110	56.3	4.0
4	11400.00	57.2 PK	74.0	-16.8	1.04 H	130	44.0	13.2
5	11400.00	46.9 AV	54.0	-7.1	1.04 H	130	33.7	13.2
6	#17100.00	47.3 PK	68.2	-20.9	1.41 H	110	30.1	17.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5700.00	110.7 PK			1.07 V	140	106.7	4.0
2	*5700.00	101.8 AV			1.07 V	140	97.8	4.0
3	#5725.00	65.5 PK	68.2	-2.7	1.07 V	140	61.5	4.0
4	11400.00	57.2 PK	74.0	-16.8	3.99 V	88	44.0	13.2
5	11400.00	47.1 AV	54.0	-6.9	3.99 V	88	33.9	13.2
6	#17100.00	47.9 PK	68.2	-20.3	1.70 V	75	30.7	17.2

Remarks:

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

Channel	TX Channel 144	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.10 H	98	47.6	3.8
2	5460.00	41.7 AV	54.0	-12.3	1.10 H	98	37.9	3.8
3	#5470.00	51.7 PK	68.2	-16.5	1.10 H	98	47.8	3.9
4	*5720.00	105.4 PK			1.10 H	98	101.5	3.9
5	*5720.00	95.5 AV			1.10 H	98	91.6	3.9
6	#5850.00	57.3 PK	68.2	-10.9	1.10 H	98	52.9	4.4
7	11440.00	58.9 PK	74.0	-15.1	1.08 H	141	45.6	13.3
8	11440.00	48.2 AV	54.0	-5.8	1.08 H	141	34.9	13.3
9	#17160.00	48.5 PK	68.2	-19.7	1.39 H	128	31.1	17.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.4 PK	74.0	-22.6	1.10 V	143	47.6	3.8
2	5460.00	41.5 AV	54.0	-12.5	1.10 V	143	37.7	3.8
3	#5470.00	52.0 PK	68.2	-16.2	1.10 V	143	48.1	3.9
4	*5720.00	112.1 PK			1.10 V	143	108.2	3.9
5	*5720.00	102.9 AV			1.10 V	143	99.0	3.9
6	#5850.00	58.3 PK	68.2	-9.9	1.10 V	143	53.9	4.4
7	11440.00	57.2 PK	74.0	-16.8	3.86 V	98	43.9	13.3
8	11440.00	47.1 AV	54.0	-6.9	3.86 V	98	33.8	13.3
9	#17160.00	47.9 PK	68.2	-20.3	1.66 V	78	30.5	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 149	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5643.58	55.0 PK	68.2	-13.2	1.03 H	174	51.1	3.9
2	*5745.00	102.8 PK			1.03 H	174	98.8	4.0
3	*5745.00	95.9 AV			1.03 H	174	91.9	4.0
4	#5988.01	55.5 PK	68.2	-12.7	1.03 H	174	50.7	4.8
5	11490.00	57.6 PK	74.0	-16.4	1.15 H	75	44.3	13.3
6	11490.00	46.3 AV	54.0	-7.7	1.15 H	75	33.0	13.3
7	#17235.00	48.6 PK	68.2	-19.6	1.35 H	122	31.0	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5644.96	57.3 PK	68.2	-10.9	1.23 V	106	56.2	1.1
2	*5745.00	113.2 PK			1.23 V	106	109.2	4.0
3	*5745.00	104.2 AV			1.23 V	106	100.2	4.0
4	#5961.36	57.0 PK	68.2	-11.2	1.23 V	106	55.3	1.7
5	11490.00	54.9 PK	74.0	-19.1	3.36 V	68	41.6	13.3
6	11490.00	43.6 AV	54.0	-10.4	3.36 V	68	30.3	13.3
7	#17235.00	50.2 PK	68.2	-18.0	3.35 V	195	32.6	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 157	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5617.93	55.7 PK	68.2	-12.5	1.03 H	181	51.9	3.8
2	*5785.00	102.9 PK			1.03 H	181	98.8	4.1
3	*5785.00	95.7 AV			1.03 H	181	91.6	4.1
4	#5978.39	55.8 PK	68.2	-12.4	1.03 H	181	51.1	4.7
5	11570.00	57.8 PK	74.0	-16.2	1.19 H	89	44.6	13.2
6	11570.00	46.8 AV	54.0	-7.2	1.19 H	89	33.6	13.2
7	#17355.00	48.5 PK	68.2	-19.7	1.36 H	123	30.9	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5635.23	55.8 PK	68.2	-12.4	1.26 V	111	52.0	3.8
2	*5785.00	113.4 PK			1.26 V	111	109.3	4.1
3	*5785.00	104.5 AV			1.26 V	111	100.4	4.1
4	#5947.93	57.3 PK	68.2	-10.9	1.26 V	111	52.7	4.6
5	11570.00	55.6 PK	74.0	-18.4	3.36 V	73	42.4	13.2
6	11570.00	44.0 AV	54.0	-10.0	3.36 V	73	30.8	13.2
7	#17355.00	49.3 PK	68.2	-18.9	3.31 V	197	31.7	17.6

Remarks:

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

Channel	TX Channel 165	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5599.80	55.4 PK	68.2	-12.8	1.05 H	161	51.6	3.8
2	*5825.00	103.0 PK			1.05 H	161	98.7	4.3
3	*5825.00	95.9 AV			1.05 H	161	91.6	4.3
4	#6016.66	55.8 PK	68.2	-12.4	1.05 H	161	51.0	4.8
5	11650.00	57.4 PK	74.0	-16.6	1.20 H	77	44.1	13.3
6	11650.00	46.2 AV	54.0	-7.8	1.20 H	77	32.9	13.3
7	#17475.00	49.1 PK	68.2	-19.1	1.32 H	137	31.2	17.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5646.92	55.3 PK	68.2	-12.9	1.19 V	114	54.2	1.1
2	*5825.00	113.6 PK			1.19 V	114	109.3	4.3
3	*5825.00	104.4 AV			1.19 V	114	100.1	4.3
4	#5927.72	58.4 PK	68.2	-9.8	1.19 V	114	56.9	1.5
5	11650.00	54.7 PK	74.0	-19.3	3.37 V	76	41.4	13.3
6	11650.00	43.3 AV	54.0	-10.7	3.37 V	76	30.0	13.3
7	#17475.00	48.9 PK	68.2	-19.3	3.35 V	216	31.0	17.9

Remarks:

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

802.11ax (HE40)

Channel	TX Channel 38	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5100.00	53.3 PK	74.0	-20.7	3.73 H	200	49.6	3.7
2	5100.00	42.4 AV	54.0	-11.6	3.73 H	200	38.7	3.7
3	*5190.00	101.4 PK			3.73 H	200	97.8	3.6
4	*5190.00	91.7 AV			3.73 H	200	88.1	3.6
5	#10380.00	52.6 PK	68.2	-15.6	1.16 H	135	39.9	12.7
6	15570.00	50.3 PK	74.0	-23.7	1.41 H	106	36.9	13.4
7	15570.00	39.1 AV	54.0	-14.9	1.41 H	106	25.7	13.4
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	60.4 PK	74.0	-13.6	1.18 V	161	56.7	3.7
2	5150.00	50.4 AV	54.0	-3.6	1.18 V	161	46.7	3.7
3	*5190.00	108.0 PK			1.18 V	161	104.4	3.6
4	*5190.00	99.4 AV			1.18 V	161	95.8	3.6
5	#10380.00	52.5 PK	68.2	-15.7	3.29 V	64	39.8	12.7
6	15570.00	49.3 PK	74.0	-24.7	3.18 V	174	35.9	13.4
7	15570.00	38.2 AV	54.0	-15.8	3.18 V	174	24.8	13.4

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	104.6 PK			3.72 H	193	101.1	3.5
2	*5230.00	95.0 AV			3.72 H	193	91.5	3.5
3	5350.00	53.2 PK	74.0	-20.8	3.72 H	193	49.8	3.4
4	5350.00	42.0 AV	54.0	-12.0	3.72 H	193	38.6	3.4
5	#10460.00	52.6 PK	68.2	-15.6	1.13 H	137	39.6	13.0
6	15690.00	50.0 PK	74.0	-24.0	1.35 H	104	36.1	13.9
7	15690.00	38.8 AV	54.0	-15.2	1.35 H	104	24.9	13.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5230.00	110.9 PK			1.19 V	154	107.4	3.5
2	*5230.00	102.6 AV			1.19 V	154	99.1	3.5
3	5350.00	59.6 PK	74.0	-14.4	1.19 V	154	56.2	3.4
4	5350.00	47.3 AV	54.0	-6.7	1.19 V	154	43.9	3.4
5	#10460.00	52.4 PK	68.2	-15.8	3.37 V	66	39.4	13.0
6	15690.00	49.3 PK	74.0	-24.7	3.16 V	198	35.4	13.9
7	15690.00	38.3 AV	54.0	-15.7	3.16 V	198	24.4	13.9

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 54	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	53.8 PK	74.0	-20.2	3.71 H	198	50.1	3.7
2	5150.00	42.4 AV	54.0	-11.6	3.71 H	198	38.7	3.7
3	*5270.00	104.3 PK			3.71 H	198	100.9	3.4
4	*5270.00	94.6 AV			3.71 H	198	91.2	3.4
5	#10540.00	52.0 PK	68.2	-16.2	1.10 H	130	39.0	13.0
6	15810.00	48.6 PK	74.0	-25.4	1.31 H	108	35.4	13.2
7	15810.00	37.9 AV	54.0	-16.1	1.31 H	108	24.7	13.2
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.20 V	142	55.7	3.7
2	5150.00	48.2 AV	54.0	-5.8	1.20 V	142	44.5	3.7
3	*5270.00	111.4 PK			1.20 V	142	108.0	3.4
4	*5270.00	102.1 AV			1.20 V	142	98.7	3.4
5	#10540.00	52.1 PK	68.2	-16.1	3.39 V	50	39.1	13.0
6	15810.00	50.0 PK	74.0	-24.0	3.14 V	180	36.8	13.2
7	15810.00	38.9 AV	54.0	-15.1	3.14 V	180	25.7	13.2

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 62	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	100.2 PK			3.60 H	234	96.9	3.3
2	*5310.00	91.2 AV			3.60 H	234	87.9	3.3
3	5350.00	51.4 PK	74.0	-22.6	3.60 H	234	48.0	3.4
4	5350.00	42.5 AV	54.0	-11.5	3.60 H	234	39.1	3.4
5	10620.00	51.5 PK	74.0	-22.5	1.09 H	137	38.6	12.9
6	10620.00	42.5 AV	54.0	-11.5	1.09 H	137	29.6	12.9
7	15930.00	49.9 PK	74.0	-24.1	1.40 H	94	37.1	12.8
8	15930.00	39.3 AV	54.0	-14.7	1.40 H	94	26.5	12.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5310.00	108.1 PK			1.13 V	101	104.8	3.3
2	*5310.00	99.1 AV			1.13 V	101	95.8	3.3
3	5350.00	58.6 PK	74.0	-15.4	1.13 V	101	55.2	3.4
4	5350.00	48.8 AV	54.0	-5.2	1.13 V	101	45.4	3.4
5	10620.00	52.0 PK	74.0	-22.0	3.30 V	53	39.1	12.9
6	10620.00	42.8 AV	54.0	-11.2	3.30 V	53	29.9	12.9
7	15930.00	49.6 PK	74.0	-24.4	3.18 V	196	36.8	12.8
8	15930.00	38.9 AV	54.0	-15.1	3.18 V	196	26.1	12.8

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	53.5 PK	74.0	-20.5	1.08 H	135	49.7	3.8
2	5460.00	44.0 AV	54.0	-10.0	1.08 H	135	40.2	3.8
3	#5470.00	54.8 PK	68.2	-13.4	1.08 H	135	50.9	3.9
4	*5510.00	101.1 PK			1.08 H	135	97.2	3.9
5	*5510.00	92.0 AV			1.08 H	135	88.1	3.9
6	11020.00	51.1 PK	74.0	-22.9	1.07 H	152	38.1	13.0
7	11020.00	42.1 AV	54.0	-11.9	1.07 H	152	29.1	13.0
8	#16530.00	50.0 PK	68.2	-18.2	1.35 H	82	35.3	14.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	62.3 PK	74.0	-11.7	1.04 V	97	58.5	3.8
2	5460.00	50.3 AV	54.0	-3.7	1.04 V	97	46.5	3.8
3	#5470.00	65.5 PK	68.2	-2.7	1.04 V	97	61.6	3.9
4	*5510.00	106.6 PK			1.04 V	97	102.7	3.9
5	*5510.00	97.5 AV			1.04 V	97	93.6	3.9
6	11020.00	52.1 PK	74.0	-21.9	3.32 V	54	39.1	13.0
7	11020.00	43.1 AV	54.0	-10.9	3.32 V	54	30.1	13.0
8	#16530.00	49.2 PK	68.2	-19.0	3.09 V	177	34.5	14.7

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 110	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	104.6 PK			1.05 H	150	100.8	3.8
2	*5550.00	93.9 AV			1.05 H	150	90.1	3.8
3	11100.00	51.1 PK	74.0	-22.9	1.16 H	119	38.1	13.0
4	11100.00	42.1 AV	54.0	-11.9	1.16 H	119	29.1	13.0
5	#16650.00	49.5 PK	68.2	-18.7	1.28 H	117	33.8	15.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5550.00	111.0 PK			1.15 V	163	107.2	3.8
2	*5550.00	102.7 AV			1.15 V	163	98.9	3.8
3	11100.00	51.8 PK	74.0	-22.2	3.31 V	53	38.8	13.0
4	11100.00	44.2 AV	54.0	-9.8	3.31 V	53	31.2	13.0
5	#16650.00	49.0 PK	68.2	-19.2	3.17 V	196	33.3	15.7

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 134	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	104.7 PK			1.02 H	142	100.7	4.0
2	*5670.00	93.9 AV			1.02 H	142	89.9	4.0
3	#5725.00	53.5 PK	68.2	-14.7	1.02 H	142	49.5	4.0
4	11340.00	51.4 PK	74.0	-22.6	1.04 H	163	38.2	13.2
5	11340.00	42.1 AV	54.0	-11.9	1.04 H	163	28.9	13.2
6	#17010.00	50.4 PK	68.2	-17.8	1.35 H	76	33.4	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5670.00	111.3 PK			1.23 V	149	107.3	4.0
2	*5670.00	102.0 AV			1.23 V	149	98.0	4.0
3	#5725.00	61.3 PK	68.2	-6.9	1.23 V	149	57.3	4.0
4	11340.00	52.0 PK	74.0	-22.0	3.34 V	67	38.8	13.2
5	11340.00	43.2 AV	54.0	-10.8	3.34 V	67	30.0	13.2
6	#17010.00	49.0 PK	68.2	-19.2	3.18 V	173	32.0	17.0

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 142	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.2 PK	74.0	-21.8	1.17 H	140	48.4	3.8
2	5460.00	42.7 AV	54.0	-11.3	1.17 H	140	38.9	3.8
3	#5470.00	52.7 PK	68.2	-15.5	1.17 H	140	48.8	3.9
4	*5710.00	105.3 PK			1.17 H	140	101.3	4.0
5	*5710.00	94.3 AV			1.17 H	140	90.3	4.0
6	#5850.00	61.3 PK	68.2	-6.9	1.17 H	140	56.9	4.4
7	11420.00	51.2 PK	74.0	-22.8	1.22 H	128	38.0	13.2
8	11420.00	42.2 AV	54.0	-11.8	1.22 H	128	29.0	13.2
9	#17130.00	49.0 PK	68.2	-19.2	1.29 H	129	31.8	17.2

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.3 PK	74.0	-21.7	1.28 V	147	48.5	3.8
2	5460.00	42.5 AV	54.0	-11.5	1.28 V	147	38.7	3.8
3	#5470.00	52.4 PK	68.2	-15.8	1.28 V	147	48.5	3.9
4	*5710.00	110.8 PK			1.28 V	147	106.8	4.0
5	*5710.00	101.5 AV			1.28 V	147	97.5	4.0
6	#5850.00	56.7 PK	68.2	-11.5	1.28 V	147	52.3	4.4
7	11420.00	51.8 PK	74.0	-22.2	3.35 V	62	38.6	13.2
8	11420.00	42.4 AV	54.0	-11.6	3.35 V	62	29.2	13.2
9	#17130.00	49.3 PK	68.2	-18.9	3.14 V	186	32.1	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 151	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5603.44	55.0 PK	68.2	-13.2	1.03 H	149	51.3	3.7
2	*5755.00	99.8 PK			1.03 H	149	95.8	4.0
3	*5755.00	90.9 AV			1.03 H	149	86.9	4.0
4	#6002.72	55.4 PK	68.2	-12.8	1.03 H	149	50.5	4.9
5	11510.00	54.4 PK	74.0	-19.6	1.15 H	104	41.1	13.3
6	11510.00	42.4 AV	54.0	-11.6	1.15 H	104	29.1	13.3
7	#17265.00	48.3 PK	68.2	-19.9	1.32 H	105	30.8	17.5
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5645.80	56.8 PK	68.2	-11.4	1.13 V	137	55.7	1.1
2	*5755.00	109.8 PK			1.13 V	137	105.8	4.0
3	*5755.00	100.4 AV			1.13 V	137	96.4	4.0
4	#5928.73	56.3 PK	68.2	-11.9	1.13 V	137	54.7	1.6
5	11510.00	52.2 PK	74.0	-21.8	3.31 V	58	38.9	13.3
6	11510.00	39.9 AV	54.0	-14.1	3.31 V	58	26.6	13.3
7	#17265.00	49.6 PK	68.2	-18.6	3.18 V	178	32.1	17.5

Remarks:

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

Channel	TX Channel 159	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5565.21	54.8 PK	68.2	-13.4	1.05 H	146	51.0	3.8
2	*5795.00	99.5 PK			1.05 H	146	95.3	4.2
3	*5795.00	90.7 AV			1.05 H	146	86.5	4.2
4	#5973.00	55.4 PK	68.2	-12.8	1.05 H	146	50.7	4.7
5	11590.00	54.4 PK	74.0	-19.6	1.16 H	97	41.1	13.3
6	11590.00	42.6 AV	54.0	-11.4	1.16 H	97	29.3	13.3
7	#17385.00	48.4 PK	68.2	-19.8	1.38 H	107	30.7	17.7

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.21	56.1 PK	68.2	-12.1	1.09 V	139	52.4	3.7
2	*5795.00	109.9 PK			1.09 V	139	105.7	4.2
3	*5795.00	100.7 AV			1.09 V	139	96.5	4.2
4	#5972.71	57.3 PK	68.2	-10.9	1.09 V	139	52.6	4.7
5	11590.00	52.1 PK	74.0	-21.9	3.32 V	41	38.8	13.3
6	11590.00	39.7 AV	54.0	-14.3	3.32 V	41	26.4	13.3
7	#17385.00	49.3 PK	68.2	-18.9	3.15 V	171	31.6	17.7

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.

802.11ax (HE80)

Channel	TX Channel 42	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	54.9 PK	74.0	-19.1	3.97 H	213	51.2	3.7
2	5150.00	45.0 AV	54.0	-9.0	3.97 H	213	41.3	3.7
3	*5210.00	97.1 PK			3.97 H	213	93.5	3.6
4	*5210.00	86.8 AV			3.97 H	213	83.2	3.6
5	5350.00	50.7 PK	74.0	-23.3	3.97 H	213	47.3	3.4
6	5350.00	39.5 AV	54.0	-14.5	3.97 H	213	36.1	3.4
7	#10420.00	51.0 PK	68.2	-17.2	1.12 H	153	38.2	12.8
8	15630.00	49.4 PK	74.0	-24.6	1.32 H	66	35.7	13.7
9	15630.00	38.9 AV	54.0	-15.1	1.32 H	66	25.2	13.7
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	1.13 V	125	54.5	3.7
2	5150.00	50.1 AV	54.0	-3.9	1.13 V	125	46.4	3.7
3	*5210.00	103.0 PK			1.13 V	125	99.4	3.6
4	*5210.00	93.9 AV			1.13 V	125	90.3	3.6
5	5350.00	51.1 PK	74.0	-22.9	1.13 V	125	47.7	3.4
6	5350.00	41.0 AV	54.0	-13.0	1.13 V	125	37.6	3.4
7	#10420.00	52.2 PK	68.2	-16.0	3.29 V	51	39.4	12.8
8	15630.00	49.0 PK	74.0	-25.0	3.19 V	176	35.3	13.7
9	15630.00	38.2 AV	54.0	-15.8	3.19 V	176	24.5	13.7

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 58	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	51.3 PK	74.0	-22.7	3.89 H	214	47.6	3.7
2	5150.00	41.1 AV	54.0	-12.9	3.89 H	214	37.4	3.7
3	*5290.00	97.1 PK			3.89 H	214	93.8	3.3
4	*5290.00	87.8 AV			3.89 H	214	84.5	3.3
5	5350.00	53.0 PK	74.0	-21.0	3.89 H	214	49.6	3.4
6	5350.00	43.5 AV	54.0	-10.5	3.89 H	214	40.1	3.4
7	#10580.00	52.4 PK	68.2	-15.8	1.17 H	152	39.5	12.9
8	15870.00	49.4 PK	74.0	-24.6	1.34 H	66	36.5	12.9
9	15870.00	38.5 AV	54.0	-15.5	1.34 H	66	25.6	12.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5150.00	50.5 PK	74.0	-23.5	1.21 V	162	46.8	3.7
2	5150.00	42.0 AV	54.0	-12.0	1.21 V	162	38.3	3.7
3	*5290.00	104.2 PK			1.21 V	162	100.9	3.3
4	*5290.00	95.1 AV			1.21 V	162	91.8	3.3
5	5350.00	60.5 PK	74.0	-13.5	1.21 V	162	57.1	3.4
6	5350.00	50.6 AV	54.0	-3.4	1.21 V	162	47.2	3.4
7	#10580.00	52.2 PK	68.2	-16.0	3.29 V	64	39.3	12.9
8	15870.00	49.3 PK	74.0	-24.7	3.18 V	189	36.4	12.9
9	15870.00	38.5 AV	54.0	-15.5	3.18 V	189	25.6	12.9

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 106	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.6 PK	74.0	-22.4	1.00 H	138	47.8	3.8
2	5460.00	43.5 AV	54.0	-10.5	1.00 H	138	39.7	3.8
3	#5470.00	55.0 PK	68.2	-13.2	1.00 H	138	51.1	3.9
4	*5530.00	96.9 PK			1.00 H	138	93.1	3.8
5	*5530.00	87.7 AV			1.00 H	138	83.9	3.8
6	#5823.25	49.9 PK	68.2	-18.3	1.00 H	138	45.6	4.3
7	11060.00	50.7 PK	74.0	-23.3	1.22 H	149	37.8	12.9
8	11060.00	41.7 AV	54.0	-12.3	1.22 H	149	28.8	12.9
9	#16590.00	49.2 PK	68.2	-19.0	1.38 H	59	34.3	14.9
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5457.59	58.0 PK	74.0	-16.0	1.21 V	164	54.2	3.8
2	5457.59	48.4 AV	54.0	-5.6	1.21 V	164	44.6	3.8
3	#5470.00	60.1 PK	68.2	-8.1	1.21 V	164	56.2	3.9
4	*5530.00	104.2 PK			1.21 V	164	100.4	3.8
5	*5530.00	93.4 AV			1.21 V	164	89.6	3.8
6	#5725.00	48.8 PK	68.2	-19.4	1.21 V	164	44.8	4.0
7	11060.00	51.6 PK	74.0	-22.4	3.32 V	43	38.7	12.9
8	11060.00	40.8 AV	54.0	-13.2	3.32 V	43	27.9	12.9
9	#16590.00	49.4 PK	68.2	-18.8	3.17 V	191	34.5	14.9

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)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	97.8 PK			1.05 H	153	94.1	3.7
2	*5610.00	88.2 AV			1.05 H	153	84.5	3.7
3	#5725.00	52.8 PK	68.2	-15.4	1.05 H	153	48.8	4.0
4	11220.00	50.7 PK	74.0	-23.3	1.16 H	161	37.5	13.2
5	11220.00	41.5 AV	54.0	-12.5	1.16 H	161	28.3	13.2
6	#16830.00	49.0 PK	68.2	-19.2	1.30 H	70	32.9	16.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*5610.00	106.2 PK			1.21 V	153	102.5	3.7
2	*5610.00	95.4 AV			1.21 V	153	91.7	3.7
3	#5725.00	60.6 PK	68.2	-7.6	1.21 V	153	56.6	4.0
4	11220.00	50.9 PK	74.0	-23.1	3.29 V	46	37.7	13.2
5	11220.00	41.7 AV	54.0	-12.3	3.29 V	46	28.5	13.2
6	#16830.00	48.3 PK	68.2	-19.9	3.16 V	174	32.2	16.1

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 138	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	51.5 PK	74.0	-22.5	1.10 H	167	47.7	3.8
2	5460.00	41.9 AV	54.0	-12.1	1.10 H	167	38.1	3.8
3	#5470.00	52.7 PK	68.2	-15.5	1.10 H	167	48.8	3.9
4	*5690.00	98.3 PK			1.10 H	167	94.3	4.0
5	*5690.00	88.7 AV			1.10 H	167	84.7	4.0
6	#5850.00	56.5 PK	68.2	-11.7	1.10 H	167	52.1	4.4
7	11380.00	50.9 PK	74.0	-23.1	1.17 H	158	37.7	13.2
8	11380.00	41.8 AV	54.0	-12.2	1.17 H	158	28.6	13.2
9	#17070.00	49.4 PK	68.2	-18.8	1.29 H	78	32.4	17.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5460.00	52.1 PK	74.0	-21.9	1.22 V	56	48.3	3.8
2	5460.00	42.3 AV	54.0	-11.7	1.22 V	56	38.5	3.8
3	#5470.00	52.5 PK	68.2	-15.7	1.22 V	56	48.6	3.9
4	*5690.00	107.9 PK			1.22 V	56	103.9	4.0
5	*5690.00	97.2 AV			1.22 V	56	93.2	4.0
6	#5850.00	57.2 PK	68.2	-11.0	1.22 V	56	52.8	4.4
7	11380.00	52.4 PK	74.0	-21.6	3.40 V	54	39.2	13.2
8	11380.00	39.8 AV	54.0	-14.2	3.40 V	54	26.6	13.2
9	#17070.00	49.6 PK	68.2	-18.6	3.14 V	195	32.6	17.0

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 155	Detector Function	Peak (PK)
Frequency Range	1GHz ~ 40GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5602.25	54.1 PK	68.2	-14.1	1.02 H	145	50.4	3.7
2	*5775.00	95.8 PK			1.02 H	145	91.7	4.1
3	*5775.00	86.7 AV			1.02 H	145	82.6	4.1
4	#6005.16	54.6 PK	68.2	-13.6	1.02 H	145	49.8	4.8
5	11550.00	54.9 PK	74.0	-19.1	1.19 H	101	41.7	13.2
6	11550.00	42.8 AV	54.0	-11.2	1.19 H	101	29.6	13.2
7	#17325.00	47.6 PK	68.2	-20.6	1.29 H	91	30.0	17.6
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5627.14	57.0 PK	68.2	-11.2	1.25 V	40	53.2	3.8
2	*5775.00	107.8 PK			1.25 V	40	103.7	4.1
3	*5775.00	97.3 AV			1.25 V	40	93.2	4.1
4	#5949.01	55.9 PK	68.2	-12.3	1.25 V	40	51.3	4.6
5	11550.00	51.7 PK	74.0	-22.3	3.37 V	45	38.5	13.2
6	11550.00	39.4 AV	54.0	-14.6	3.37 V	45	26.2	13.2
7	#17325.00	49.5 PK	68.2	-18.7	3.16 V	186	31.9	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.

Below 1GHz Data:

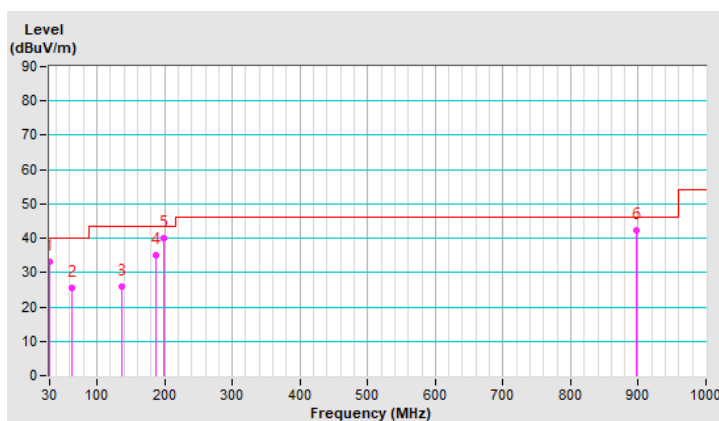
802.11a

CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.61	33.0 QP	40.0	-7.0	3.00 H	128	41.9	-8.9
2	62.96	25.5 QP	40.0	-14.5	1.00 H	137	34.1	-8.6
3	136.80	25.9 QP	43.5	-17.6	1.50 H	175	33.5	-7.6
4	186.17	34.9 QP	43.5	-8.6	1.50 H	180	43.9	-9.0
5	199.56	40.0 QP	43.5	-3.5	1.00 H	191	50.1	-10.1
6	897.98	42.2 QP	46.0	-3.8	1.50 H	271	34.9	7.3

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

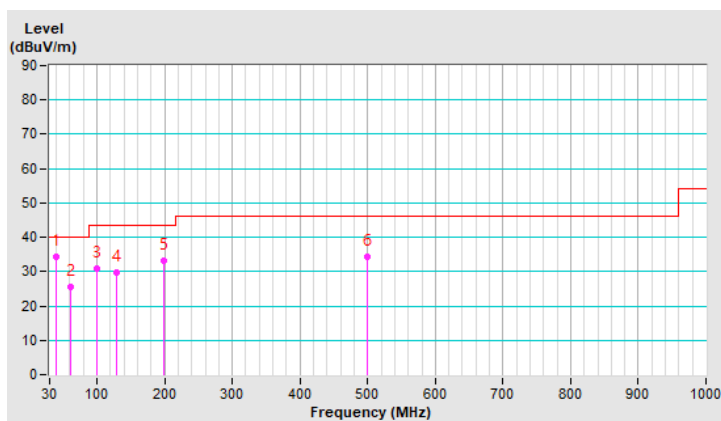


CHANNEL	TX Channel 165	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9kHz ~ 1GHz		

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	39.99	34.3 QP	40.0	-5.7	1.00 V	300	42.5	-8.2
2	60.80	25.5 QP	40.0	-14.5	1.50 V	215	33.8	-8.3
3	99.60	30.7 QP	43.5	-12.8	1.00 V	195	42.5	-11.8
4	129.33	29.6 QP	43.5	-13.9	1.00 V	143	37.8	-8.2
5	199.58	33.1 QP	43.5	-10.4	2.00 V	250	43.2	-10.1
6	498.92	34.4 QP	46.0	-11.6	1.00 V	269	34.8	-0.4

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



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 23, 2019	Oct. 22, 2020
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 19, 2020	Mar. 18, 2021
50 ohms Terminator	50	3	Oct. 23, 2019	Oct. 22, 2020
RF Cable	5D-FB	COCCAB-001	Sep. 27, 2019	Sep. 26, 2020
Fixed attenuator EMCI	STI02-2200-10	005	Aug. 29, 2020	Aug. 28, 2021
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
- 3 Tested Date: Sep. 18, 2020

4.2.3 Test Procedure

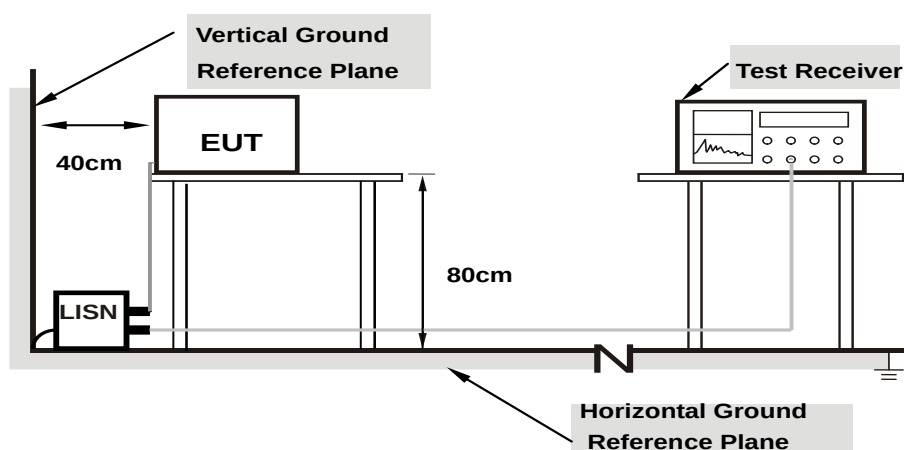
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

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 Condition

Same as 4.1.6.

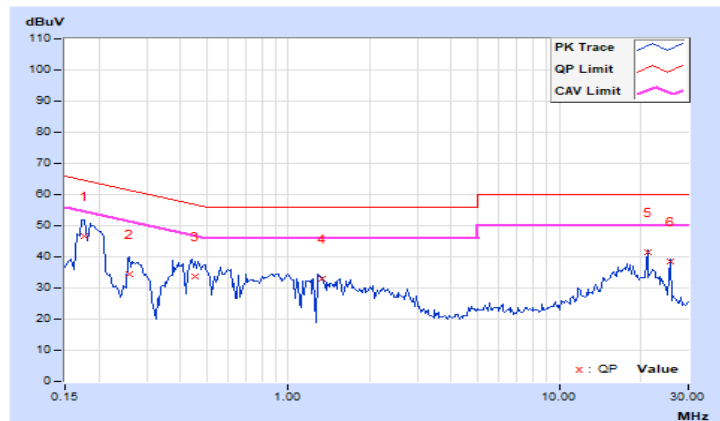
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17759	9.92	36.71	12.33	46.63	22.25	64.60	54.60	-17.97	-32.35
2	0.26001	9.94	24.39	1.18	34.33	11.12	61.43	51.43	-27.10	-40.31
3	0.45315	9.95	23.82	5.11	33.77	15.06	56.82	46.82	-23.05	-31.76
4	1.33894	10.00	23.14	6.66	33.14	16.66	56.00	46.00	-22.86	-29.34
5	21.16807	11.05	30.27	29.42	41.32	40.47	60.00	50.00	-18.68	-9.53
6	25.87266	11.18	27.26	27.11	38.44	38.29	60.00	50.00	-21.56	-11.71

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

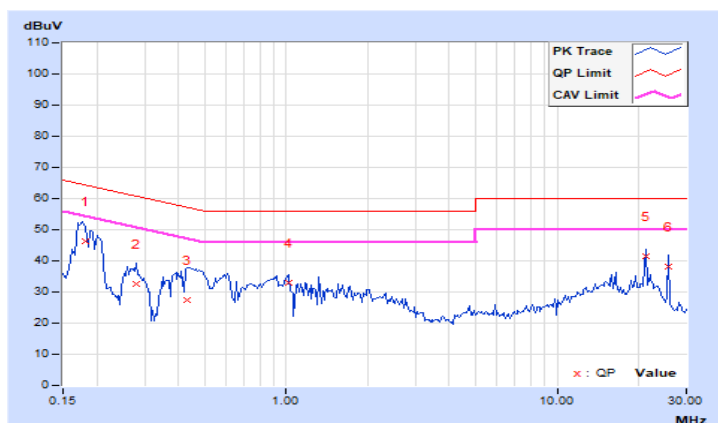


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBUV)		Emission Level (dBUV)		Limit (dBUV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18219	9.92	36.33	12.76	46.25	22.68	64.39	54.39	-18.14	-31.71
2	0.27913	9.94	22.65	2.91	32.59	12.85	60.84	50.84	-28.25	-37.99
3	0.43154	9.95	17.52	-1.05	27.47	8.90	57.22	47.22	-29.75	-38.32
4	1.02364	9.99	23.15	9.86	33.14	19.85	56.00	46.00	-22.86	-26.15
5	21.16807	10.78	30.66	30.11	41.44	40.89	60.00	50.00	-18.56	-9.11
6	25.87124	10.86	27.33	27.26	38.19	38.12	60.00	50.00	-21.81	-11.88

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

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

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

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

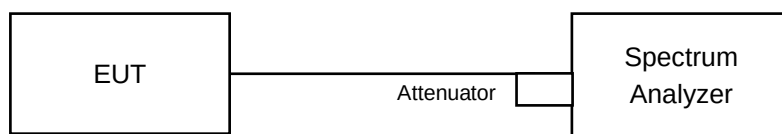
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

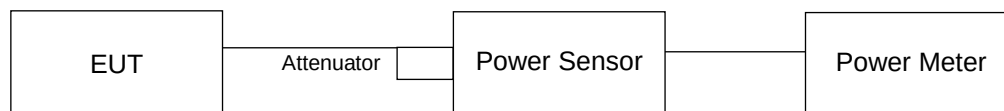
4.3.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

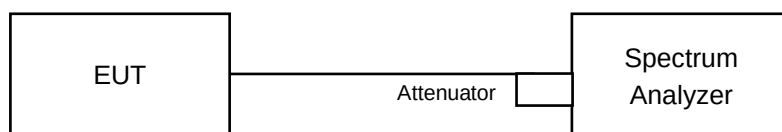
For channel straddling 5725MHz:



For other channels:



FOR 26dB OCCUPIED BANDWIDTH



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

FOR POWER OUTPUT MEASUREMENT

For channel straddling 5725MHz:

Follow FCC KDB 789033 UNII test procedure:

For 802.11a

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

For 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80)

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

For other channels:

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. Duty factor is not added to measured value.

FOR 26dB OCCUPIED BANDWIDTH

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

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

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 Results

POWER OUTPUT

CDD Mode

802.11a

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.13	15.32	66.624	18.24	24.00	Pass
40	5200	17.21	16.84	100.908	20.04	24.00	Pass
48	5240	18.72	18.41	143.816	21.58	24.00	Pass
52	5260	18.91	18.42	147.306	21.68	24.00	Pass
60	5300	18.27	19.07	147.866	21.70	24.00	Pass
64	5320	15.54	16.13	76.83	18.86	24.00	Pass
100	5500	17.44	16.29	98.022	19.91	24.00	Pass
116	5580	18.98	18.89	156.514	21.95	24.00	Pass
140	5700	18.04	17.47	119.527	20.77	24.00	Pass
*144 (U-NII-2C Band)	5720	16.35	16.33	86.106	19.35	23.43	Pass
*144 (U-NII-3 Band)	5720	9.25	9.19	16.712	12.23	30.00	Pass
149	5745	20.02	19.43	188.162	22.75	30.00	Pass
157	5785	19.99	19.59	190.761	22.80	30.00	Pass
165	5825	20.11	19.57	193.138	22.86	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-1 and use spectrum analyzer test.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	25.1	24.99 > 24
60	5300	25	24.97 > 24
64	5320	26.56	25.24 > 24
100	5500	26.48	25.22 > 24
116	5580	24.42	24.87 > 24
140	5700	25.95	25.14 > 24
144 (U-NII-2C Band)	5720	17.5	23.43 < 24

802.11ac (VHT20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.71	15.96	76.685	18.85	24.00	Pass
40	5200	17.01	16.79	97.987	19.91	24.00	Pass
48	5240	18.04	17.82	124.214	20.94	24.00	Pass
52	5260	18.58	18.21	138.332	21.41	24.00	Pass
60	5300	17.91	17.42	117.009	20.68	24.00	Pass
64	5320	15.66	15.39	71.407	18.54	24.00	Pass
100	5500	17.14	16.24	93.833	19.72	24.00	Pass
116	5580	18.69	18.45	143.945	21.58	24.00	Pass
140	5700	17.71	17.06	109.836	20.41	24.00	Pass
*144 (U-NII-2C Band)	5720	15.44	15.44	78.812	18.97	23.11	Pass
*144 (U-NII-3 Band)	5720	9.36	9.32	19.346	12.87	30.00	Pass
149	5745	18.69	18.22	140.335	21.47	30.00	Pass
157	5785	18.66	18.18	139.217	21.44	30.00	Pass
165	5825	18.71	18.41	143.644	21.57	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	22.55	24.53 > 24
60	5300	22.16	24.45 > 24
64	5320	22.98	24.61 > 24
100	5500	22.57	24.53 > 24
116	5580	22.67	24.55 > 24
140	5700	23.15	24.64 > 24
144 (U-NII-2C Band)	5720	16.26	23.11 < 24

802.11ac (VHT40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	14.88	15.13	63.345	18.02	24.00	Pass
46	5230	17.59	17.28	110.868	20.45	24.00	Pass
54	5270	18.06	17.17	116.093	20.65	24.00	Pass
62	5310	15.05	15.28	65.718	18.18	24.00	Pass
102	5510	16.93	16.29	91.877	19.63	24.00	Pass
110	5550	17.91	17.31	115.629	20.63	24.00	Pass
134	5670	17.63	17.15	109.823	20.41	24.00	Pass
*142 (U-NII-2C Band)	5710	15.31	15.34	80.874	19.08	24.00	Pass
*142 (U-NII-3 Band)	5710	3.56	3.53	5.368	7.30	30.00	Pass
151	5755	17.68	17.24	111.58	20.48	30.00	Pass
159	5795	17.75	17.42	114.774	20.60	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	40.97	27.12 > 24
62	5310	41.12	27.14 > 24
102	5510	41.1	27.13 > 24
110	5550	41.14	27.14 > 24
134	5670	41.18	27.14 > 24
142 (U-NII-2C Band)	5710	35.66	26.52 > 24

802.11ac (VHT80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	13.48	13.69	45.673	16.60	24.00	Pass
58	5290	14.43	14.25	54.34	17.35	24.00	Pass
106	5530	15.19	14.59	61.811	17.91	24.00	Pass
122	5610	15.26	16.98	83.462	19.21	24.00	Pass
*138 (U-NII-2C Band)	5690	14.10	14.42	73.598	18.67	24.00	Pass
*138 (U-NII-3 Band)	5690	-1.16	-1.01	2.1485	3.32	30.00	Pass
155	5775	16.61	16.33	88.768	19.48	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	81.33	30.1 > 24
106	5530	81.43	30.1 > 24
122	5610	81.48	30.11 > 24
138 (U-NII-2C Band)	5690	75.99	29.8 > 24

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	15.92	16.19	80.675	19.07	24.00	Pass
40	5200	17.23	16.98	102.733	20.12	24.00	Pass
48	5240	18.26	17.95	129.362	21.12	24.00	Pass
52	5260	18.79	18.54	147.133	21.68	24.00	Pass
60	5300	18.07	17.63	122.064	20.87	24.00	Pass
64	5320	15.88	15.63	75.285	18.77	24.00	Pass
100	5500	17.35	16.47	98.686	19.94	24.00	Pass
116	5580	18.92	18.68	151.773	21.81	24.00	Pass
140	5700	17.95	17.31	116.2	20.65	24.00	Pass
*144 (U-NII-2C Band)	5720	16.36	15.91	92.613	19.67	23.11	Pass
*144 (U-NII-3 Band)	5720	10.28	9.78	22.715	13.56	30.00	Pass
149	5745	18.92	18.52	149.104	21.73	30.00	Pass
157	5785	18.89	18.43	147.109	21.68	30.00	Pass
165	5825	18.94	18.64	151.457	21.80	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
52	5260	22.55	24.53 > 24
60	5300	22.16	24.45 > 24
64	5320	22.98	24.61 > 24
100	5500	22.57	24.53 > 24
116	5580	22.67	24.55 > 24
140	5700	23.15	24.64 > 24
144 (U-NII-2C Band)	5720	16.26	23.11 < 24

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	15.05	15.31	65.951	18.19	24.00	Pass
46	5230	17.78	17.52	116.473	20.66	24.00	Pass
54	5270	18.29	17.38	122.154	20.87	24.00	Pass
62	5310	15.23	15.49	68.742	18.37	24.00	Pass
102	5510	17.12	16.54	96.605	19.85	24.00	Pass
110	5550	18.09	17.53	121.041	20.83	24.00	Pass
134	5670	17.82	17.33	114.61	20.59	24.00	Pass
*142 (U-NII-2C Band)	5710	15.87	15.80	90.954	19.59	24.00	Pass
*142 (U-NII-3 Band)	5710	4.04	3.99	5.982	7.77	30.00	Pass
151	5755	17.89	17.53	118.142	20.72	30.00	Pass
159	5795	17.93	17.61	119.764	20.78	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
54	5270	40.97	27.12 > 24
62	5310	41.12	27.14 > 24
102	5510	41.1	27.13 > 24
110	5550	41.14	27.14 > 24
134	5670	41.18	27.14 > 24
142 (U-NII-2C Band)	5710	35.66	26.52 > 24

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	13.70	13.91	48.046	16.82	24.00	Pass
58	5290	14.65	14.47	57.164	17.57	24.00	Pass
106	5530	15.41	14.76	64.676	18.11	24.00	Pass
122	5610	16.50	17.16	96.668	19.85	24.00	Pass
*138 (U-NII-2C Band)	5690	15.20	14.95	88.767	19.48	24.00	Pass
*138 (U-NII-3 Band)	5690	-0.20	-0.40	2.5745	4.11	30.00	Pass
155	5775	16.83	16.57	93.589	19.71	30.00	Pass

Note: * Test was performed in accordance with Measurement follow FCC KDB 789033 UNII test procedure Method SA-2 and use spectrum analyzer test. The duty factor was included in the total power.

Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth

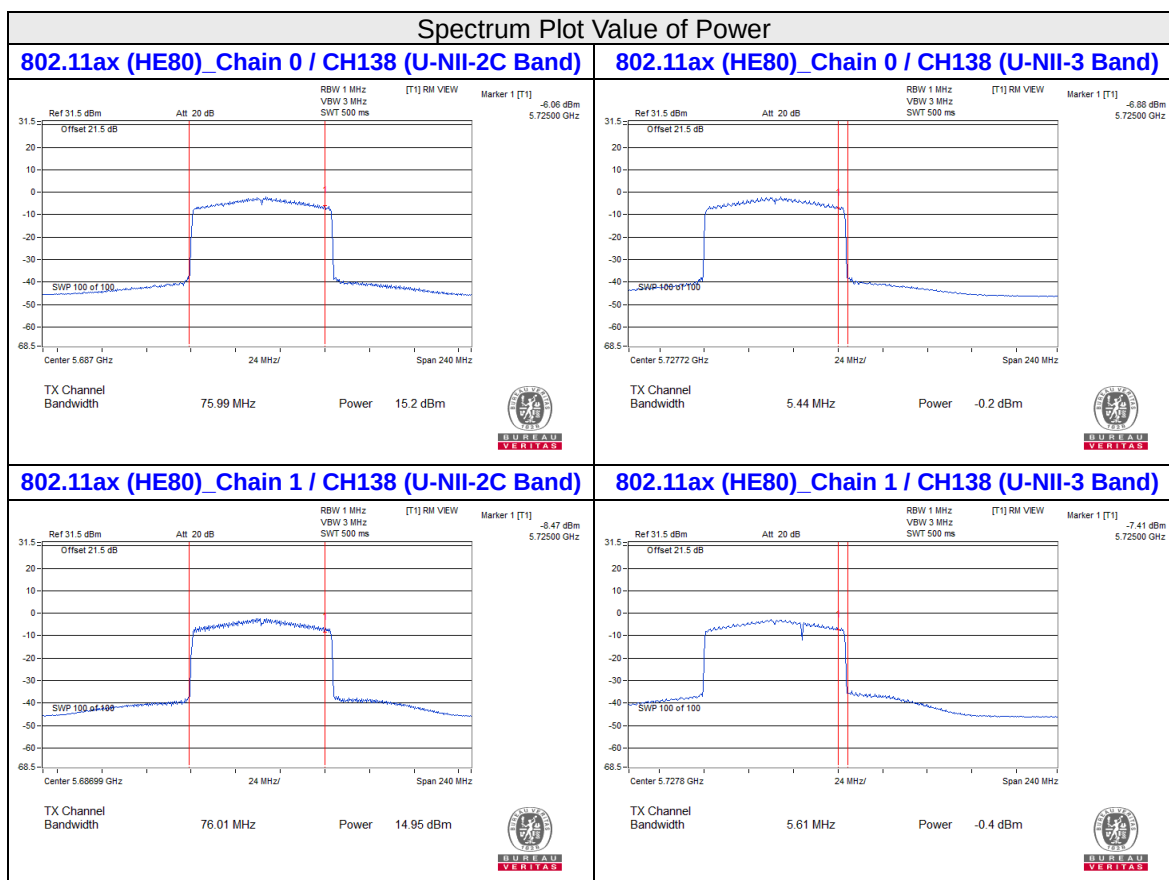
Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C >			
Channel Number	Freq.(MHz)	Min. B(MHz)	Determined Conducted Limit (dBm)
58	5290	81.33	30.1 > 24
106	5530	81.43	30.1 > 24
122	5610	81.48	30.11 > 24
138 (U-NII-2C Band)	5690	75.99	29.8 > 24

For channel straddling 5725MHz of Power









26dB OCCUPIED BANDWIDTH

802.11a

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
36	5180	27.72	24.49
40	5200	36.7	33.98
48	5240	24.34	20.83
52	5260	26.97	25.1
60	5300	26.74	25
64	5320	26.56	26.62
100	5500	28.44	26.48
116	5580	27.15	24.42
140	5700	26.82	25.95
144 (U-NII-2C Band)	5720	18.67	17.5
144 (U-NII-3 Band)	5720	8.72	8.21
149	5745	28.56	25.47
157	5785	26.48	26.13
165	5825	29.05	26.52

802.11ax (HE20)

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
36	5180	22.53	22.59
40	5200	22.52	22.43
48	5240	21.51	20.32
52	5260	22.55	23.12
60	5300	22.29	22.16
64	5320	22.98	22.98
100	5500	22.57	23.1
116	5580	26.49	22.67
140	5700	24.28	23.15
144 (U-NII-2C Band)	5720	16.64	16.26
144 (U-NII-3 Band)	5720	5.95	6.18
149	5745	24.47	22.46
157	5785	22.63	22.7
165	5825	27.02	35.74

802.11ax (HE40)

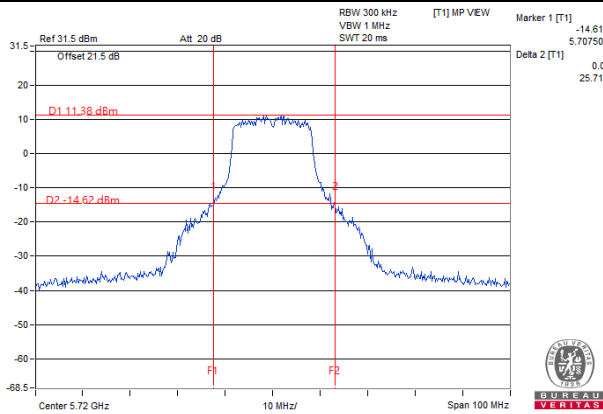
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
38	5190	41.06	40.99
46	5230	41.2	41.57
54	5270	41.48	40.97
62	5310	41.12	41.19
102	5510	41.1	41.36
110	5550	41.14	41.22
134	5670	41.18	41.29
142 (U-NII-2C Band)	5710	35.71	35.66
142 (U-NII-3 Band)	5710	5.35	5.41
151	5755	41.13	41.33
159	5795	41.2	42.55

802.11ax (HE80)

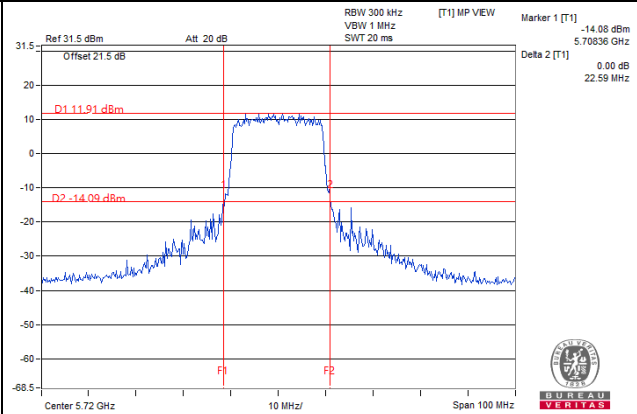
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	
		Chain0	Chain1
42	5210	81.32	81.32
58	5290	81.33	81.42
106	5530	81.43	81.7
122	5610	81.48	81.59
138 (U-NII-2C Band)	5690	75.99	76.01
138 (U-NII-3 Band)	5690	5.44	5.61
155	5775	81.77	82

Spectrum Plot of Worst Value

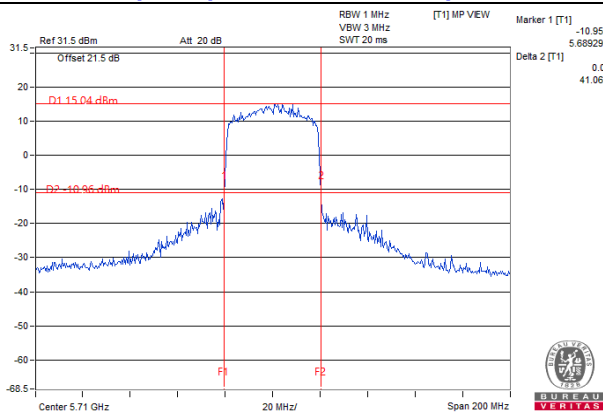
802.11a_Chain 1 / CH144 (U-NII-3 Band)



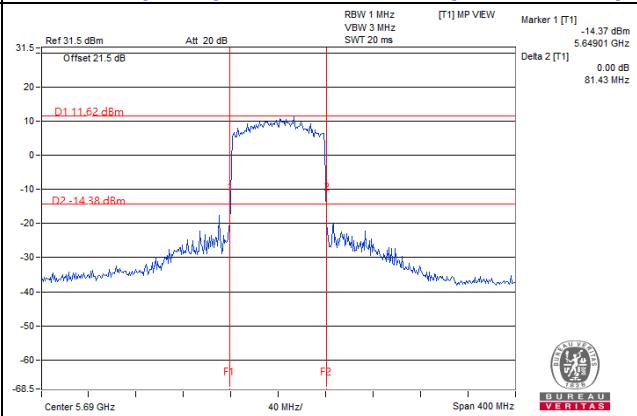
802.11ax (HE20)_Chain 0 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)

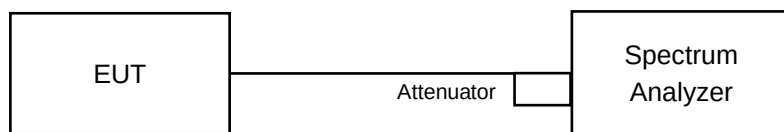


Note:

- For CH144 (U-NII-3) = Delta 2 - (5725MHz - Marker 1)
- For CH142 (U-NII-3) = Delta 2 - (5725MHz - Marker 1)
- For CH138 (U-NII-3) = Delta 2 - (5725MHz - Marker 1)

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Results

802.11a

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.04	17.04
40	5200	17.04	17.04
48	5240	16.68	16.56
52	5260	17.16	16.92
60	5300	17.04	17.16
64	5320	17.16	17.04
100	5500	17.16	16.92
116	5580	17.04	17.16
140	5700	17.28	17.16
144 (U-NII-2C Band)	5720	13.88	13.64
144 (U-NII-3 Band)	5720	3.28	3.28
149	5745	17.04	16.92
157	5785	17.16	16.92
165	5825	17.16	17.04

802.11ax (HE20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	18.96	18.96
40	5200	18.96	19.08
48	5240	18.96	18.96
52	5260	19.08	18.96
60	5300	18.96	18.96
64	5320	18.96	19.08
100	5500	18.96	19.08
116	5580	19.2	19.08
140	5700	18.96	18.96
144 (U-NII-2C Band)	5720	14.84	14.6
144 (U-NII-3 Band)	5720	4.24	4.36
149	5745	19.08	19.08
157	5785	18.96	18.96
165	5825	19.08	19.08

802.11ax (HE40)

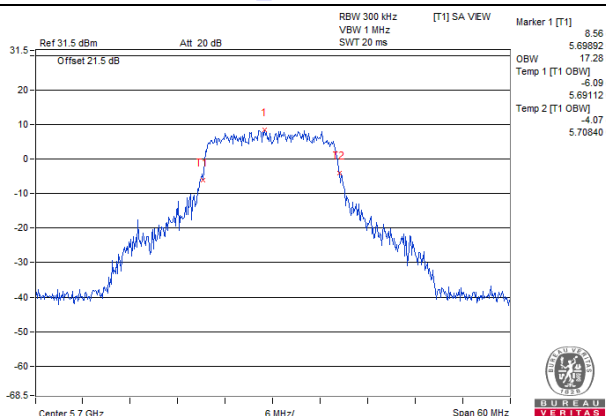
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	37.68	37.68
46	5230	37.92	37.68
54	5270	37.92	37.92
62	5310	37.92	37.68
102	5510	37.68	37.68
110	5550	37.92	37.68
134	5670	37.68	37.68
142 (U-NII-2C Band)	5710	34.2	33.96
142 (U-NII-3 Band)	5710	3.72	3.72
151	5755	37.68	37.92
159	5795	37.68	37.92

802.11ax (HE80)

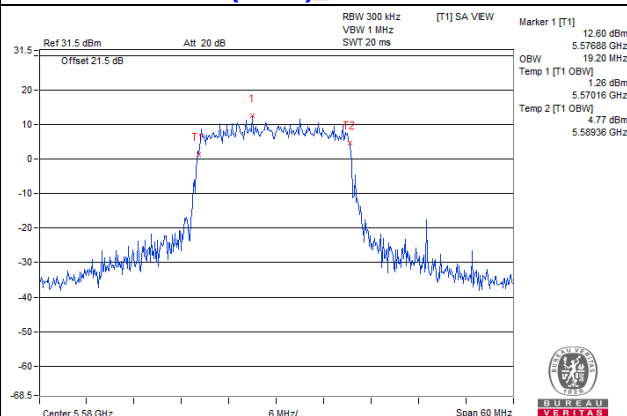
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	77.28	77.28
58	5290	77.28	76.32
106	5530	76.8	77.28
122	5610	76.8	76.8
138 (U-NII-2C Band)	5690	73.88	73.88
138 (U-NII-3 Band)	5690	2.92	3.4
155	5775	76.8	76.8

Spectrum Plot of Max. Value

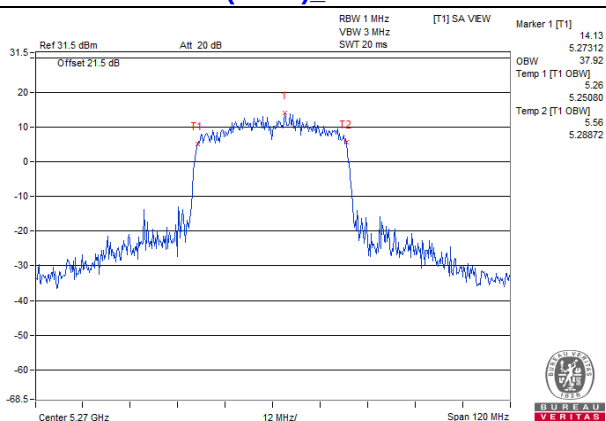
802.11a_Chain 0 / CH140



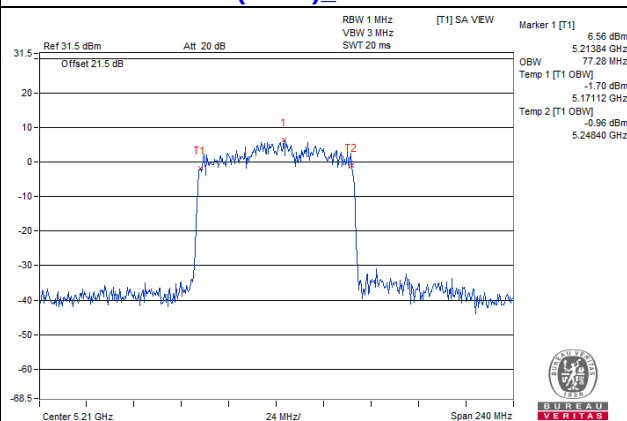
802.11ax (HE20)_Chain 0 / CH116



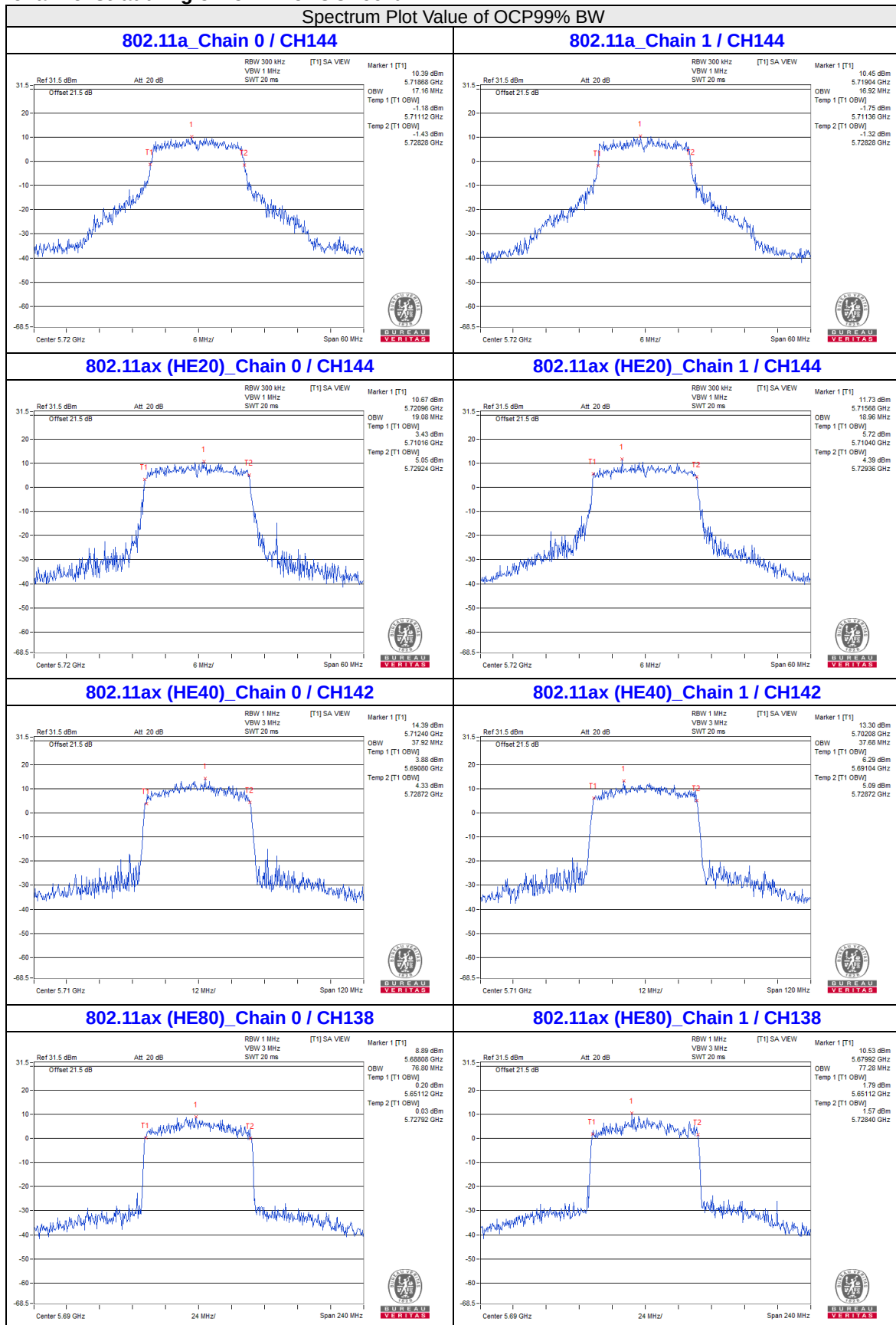
802.11ax (HE40)_Chain 0 / CH110



802.11ax (HE80)_Chain 0 / CH42

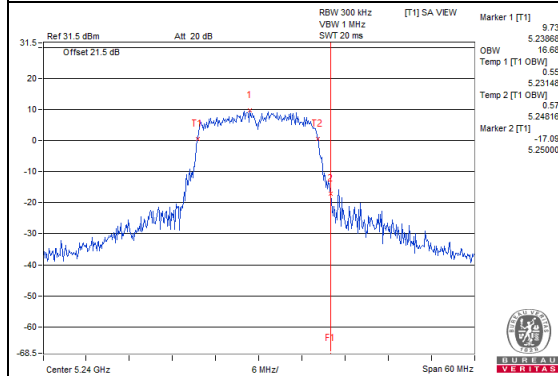


For channel straddling 5725MHz of OCP99% BW

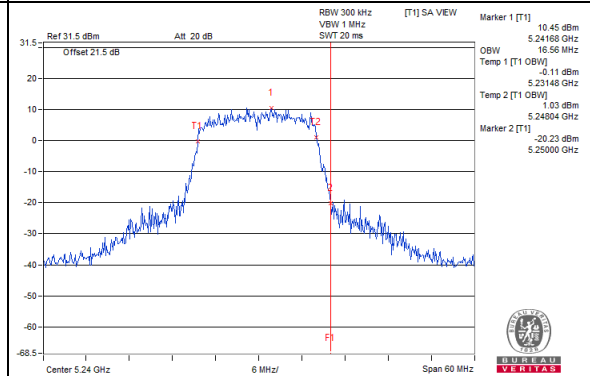


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

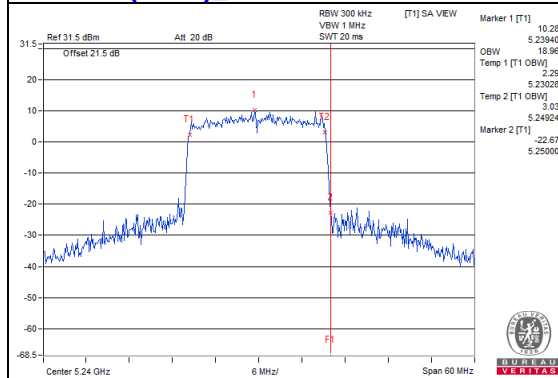
802.11a_Chain 0 / CH48



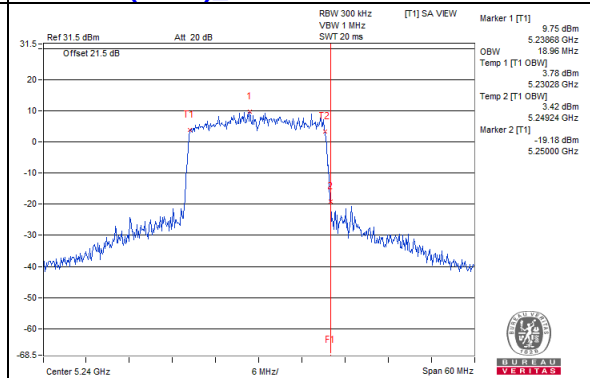
802.11a_Chain 1 / CH48



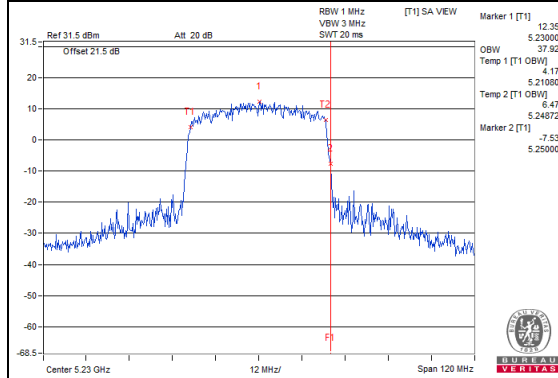
802.11ax (HE20)_Chain 0 / CH48



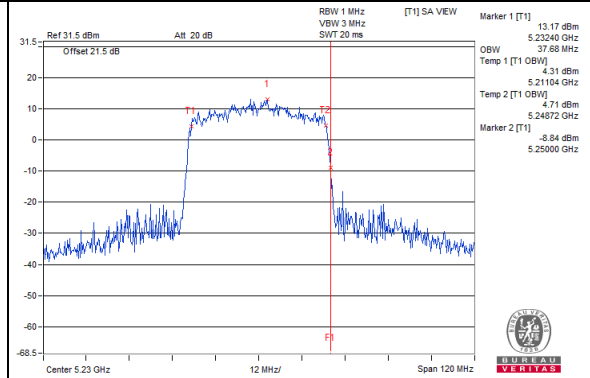
802.11ax (HE20)_Chain 1 / CH48



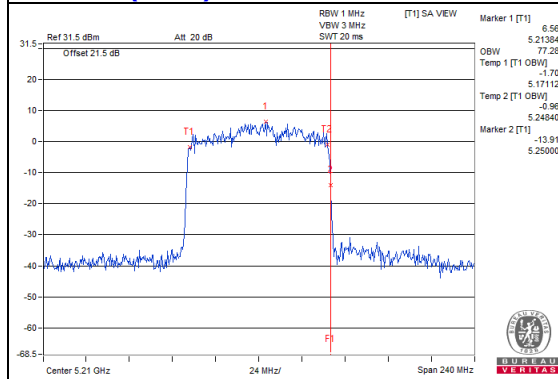
802.11ax (HE40)_Chain 0 / CH46



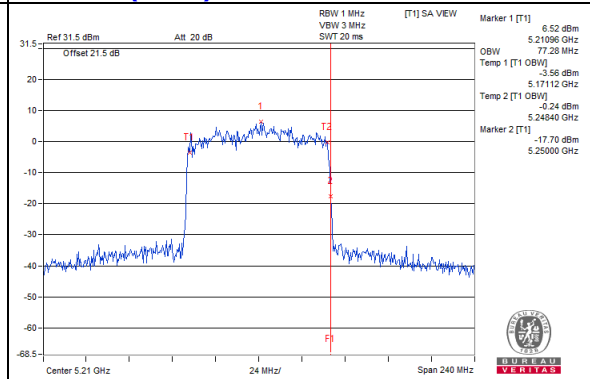
802.11ax (HE40)_Chain 1 / CH46



802.11ax (HE80)_Chain 0 / CH42

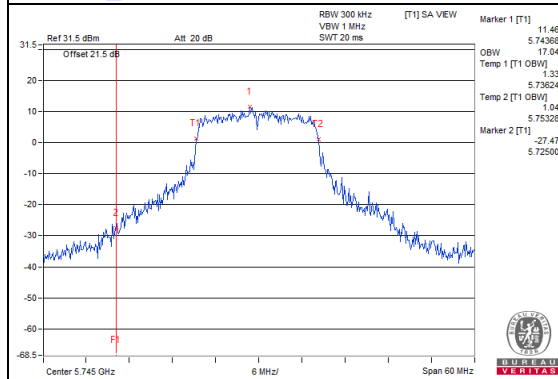


802.11ax (HE80)_Chain 1 / CH42

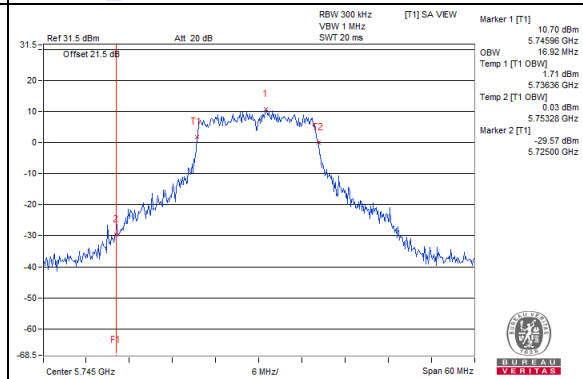


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

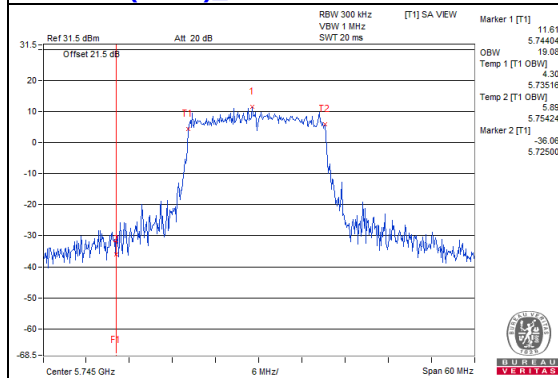
802.11a Chain 0 / CH149



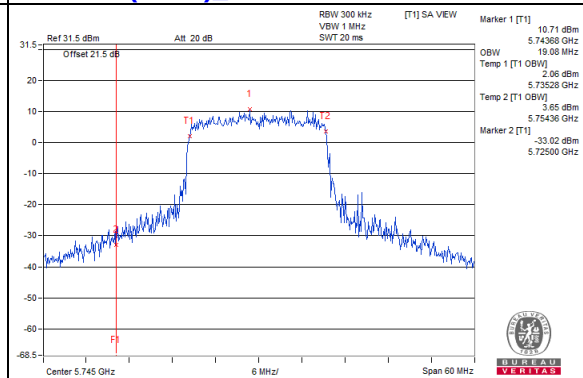
802.11a Chain 1 / CH149



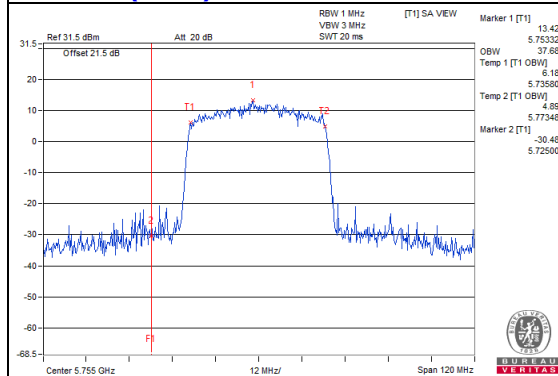
802.11ax (HE20)_Chain 0 / CH149



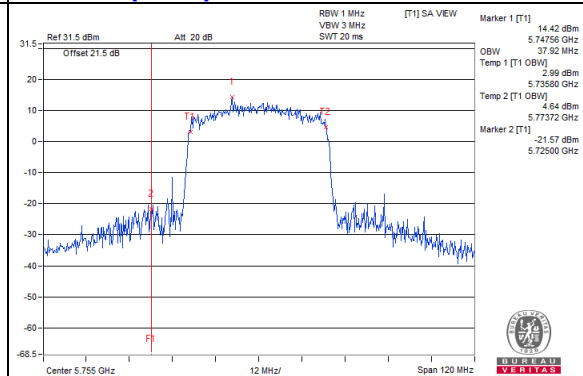
802.11ax (HE20)_Chain 1 / CH149



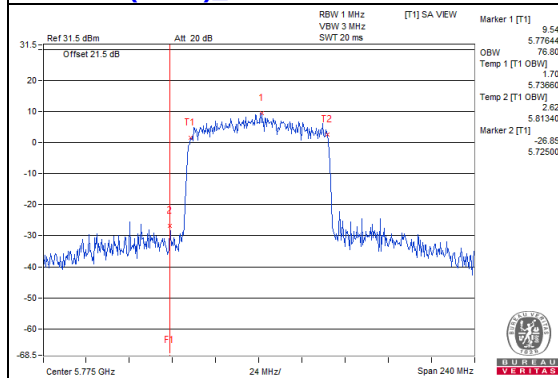
802.11ax (HE40)_Chain 0 / CH151



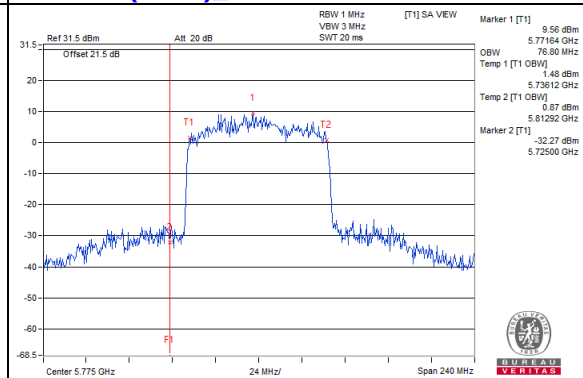
802.11ax (HE40)_Chain 1 / CH151



802.11ax (HE80)_Chain 0 / CH155



802.11ax (HE80)_Chain 1 / CH155

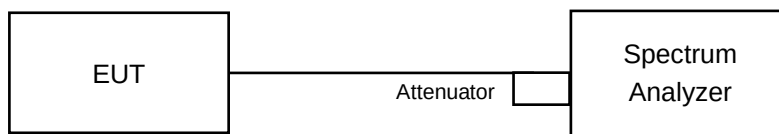


4.5 Peak Power Spectral Density Measurement

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	
	√	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 Procedure

For 802.11a

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

Using method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1 MHz, Set VBW $\geq$ 3 MHz, Detector = RMS
3. Sweep time = auto, trigger set to "free run".
4. Trace average at least 100 traces in power averaging mode.
5. Record the max value

For U-NII-3 band:

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

For 802.11ax (HE20), 802.11ax (HE40), 802.11ax (HE80)

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

Using method SA-2

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

For U-NII-3 band:

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results

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

CDD Mode

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/MHz)		Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	2.24	2.66	5.47	9.07	Pass
40	5200	4.85	4.15	7.52	9.07	Pass
48	5240	5.96	5.88	8.93	9.07	Pass
52	5260	6.03	5.97	9.01	9.07	Pass
60	5300	5.64	6.17	8.92	9.07	Pass
64	5320	2.99	3.20	6.11	9.07	Pass
100	5500	4.97	3.24	7.20	9.07	Pass
116	5580	6.12	5.94	9.04	9.07	Pass
140	5700	5.16	4.53	7.87	9.07	Pass
144 (U-NII-2C Band)	5720	6.16	5.83	9.01	9.07	Pass

- Note: 1. Method 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. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(7.93-6)=9.07\text{dBm}$.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	0.12	0.39	0.52	3.78	9.07	Pass
40	5200	2.36	-3.08	0.52	3.97	9.07	Pass
48	5240	2.75	2.54	0.52	6.17	9.07	Pass
52	5260	4.16	4.71	0.52	7.97	9.07	Pass
60	5300	2.31	1.71	0.52	5.55	9.07	Pass
64	5320	-1.33	-1.39	0.52	2.17	9.07	Pass
100	5500	1.80	0.39	0.52	4.68	9.07	Pass
116	5580	4.10	2.22	0.52	6.79	9.07	Pass
140	5700	2.77	2.46	0.52	6.14	9.07	Pass
144 (U-NII-2C Band)	5720	2.20	0.14	0.52	4.82	9.07	Pass

- Note: 1. Method 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. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(7.93-6)=9.07\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	-2.13	-7.94	0.74	-0.38	9.07	Pass
46	5230	0.62	0.43	0.74	4.28	9.07	Pass
54	5270	-1.07	-2.79	0.74	1.91	9.07	Pass
62	5310	-1.28	-0.35	0.74	2.96	9.07	Pass
102	5510	-3.02	-3.29	0.74	0.60	9.07	Pass
110	5550	-2.76	-3.22	0.74	0.77	9.07	Pass
134	5670	-0.34	-4.52	0.74	1.81	9.07	Pass
142 (U-NII-2C Band)	5710	-1.61	-0.51	0.74	2.73	9.07	Pass

- Note: 1. Method 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. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(7.93-6)=9.07\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

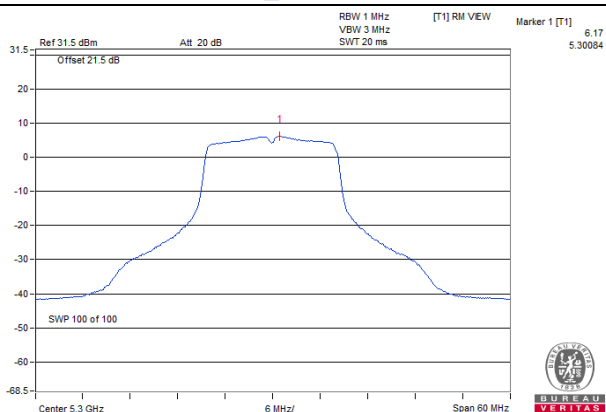
802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD (dBm/MHz)	Max. PSD Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-10.67	-12.73	1.40	-7.17	9.07	Pass
58	5290	-10.27	-10.44	1.40	-5.95	9.07	Pass
106	5530	-9.00	-11.20	1.40	-5.56	9.07	Pass
122	5610	-8.90	-6.13	1.40	-2.89	9.07	Pass
138 (U-NII-2C Band)	5690	-8.97	-9.92	1.40	-5.01	9.07	Pass

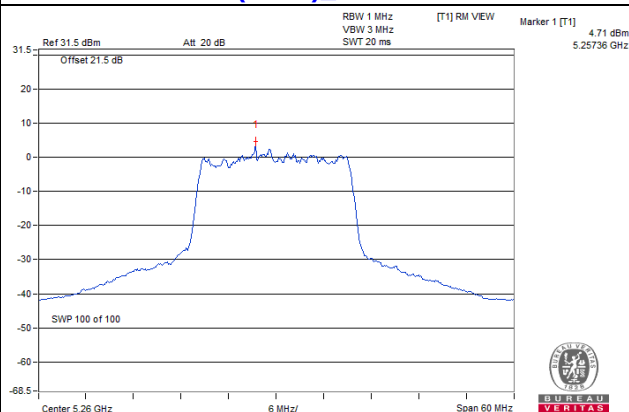
- Note: 1. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $11-(7.93-6)=9.07\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

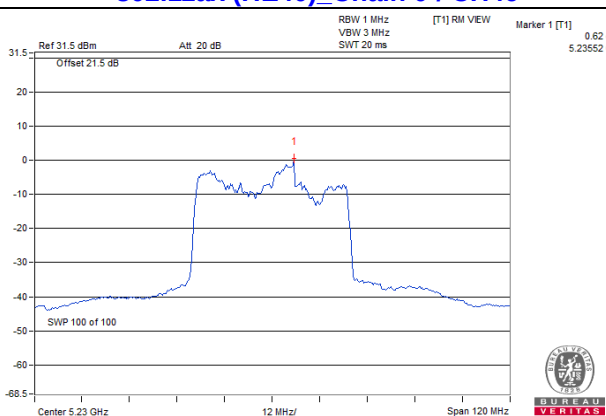
802.11a_Chain 1 / CH60



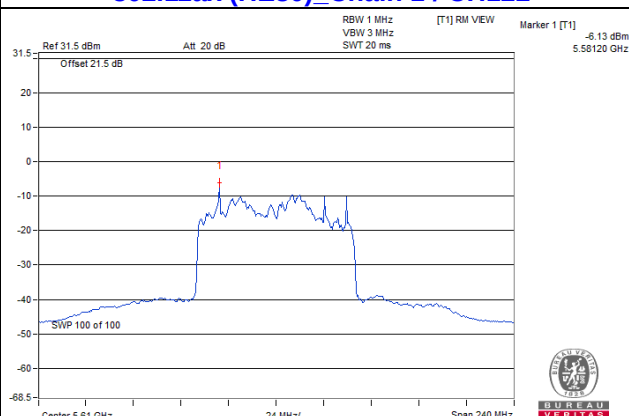
802.11ax (HE20)_Chain 1 / CH52



802.11ax (HE40)_Chain 0 / CH46



802.11ax (HE80)_Chain 1 / CH122



For U-NII-3 band:

802.11a

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1				
144 (U-NII-3 Band)	5720	-3.51	-3.48	-0.48	1.74	28.07	Pass
149	5745	-0.48	-1.49	2.05	4.27	28.07	Pass
157	5785	-0.84	-1.48	1.86	4.08	28.07	Pass
165	5825	-0.50	-1.18	2.18	4.40	28.07	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6)=28.07\text{dBm}$.

802.11ax (HE20)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1					
144 (U-NII-3 Band)	5720	-8.38	-8.00	0.52	-4.66	-2.44	28.07	Pass
149	5745	-6.50	-6.88	0.52	-3.16	-0.94	28.07	Pass
157	5785	-6.75	-6.24	0.52	-2.96	-0.74	28.07	Pass
165	5825	-4.96	-4.86	0.52	-1.38	0.84	28.07	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6)=28.07\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE40)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1					
142 (U-NII-3 Band)	5710	-11.02	-12.39	0.74	-7.90	-5.68	28.07	Pass
151	5755	-7.77	-7.62	0.74	-3.94	-1.72	28.07	Pass
159	5795	-6.89	-7.43	0.74	-3.40	-1.18	28.07	Pass

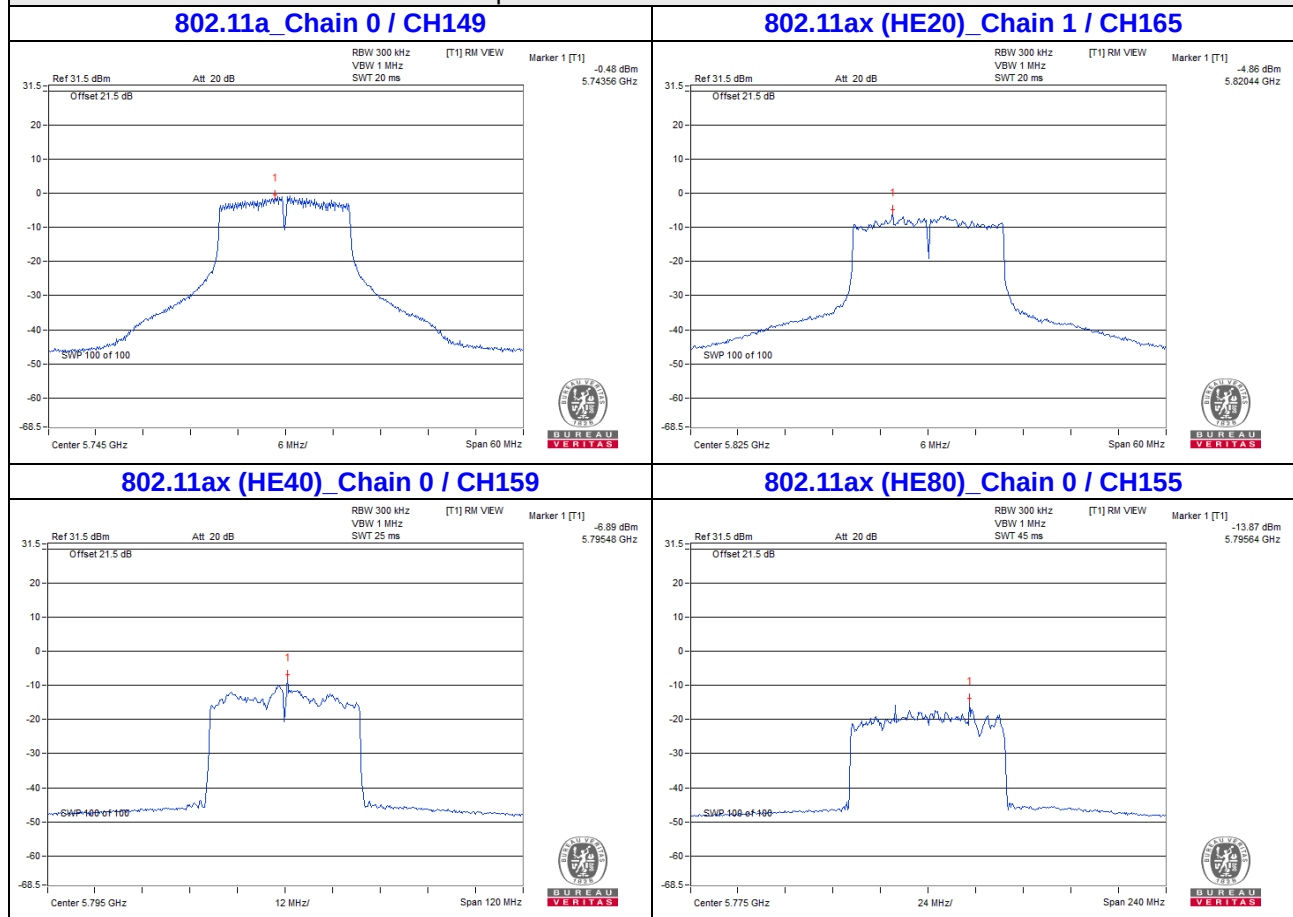
- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
 2. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6)=28.07\text{dBm}$.
 3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ax (HE80)

Chan.	Chan. Freq. (MHz)	PSD (dBm/300kHz)		Duty Factor (dB)	Total PSD (dBm/300kHz)	Total PSD (dBm/500kHz)	PSD Limit (dBm/500kHz)	Pass / Fail
		Chain 0	Chain 1					
138 (U-NII-3 Band)	5710	-18.77	-20.56	1.40	-15.17	-12.95	28.07	Pass
155	5755	-13.87	-15.04	1.40	-10.01	-7.79	28.07	Pass

- Note: 1. Method b) Measure and sum spectral maxima across the outputs of KDB 662911 is using for calculating total power density.
2. The directional gain = $4.92\text{dBi} + 10\log(2) = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30 - (7.93 - 6) = 28.07\text{dBm}$.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

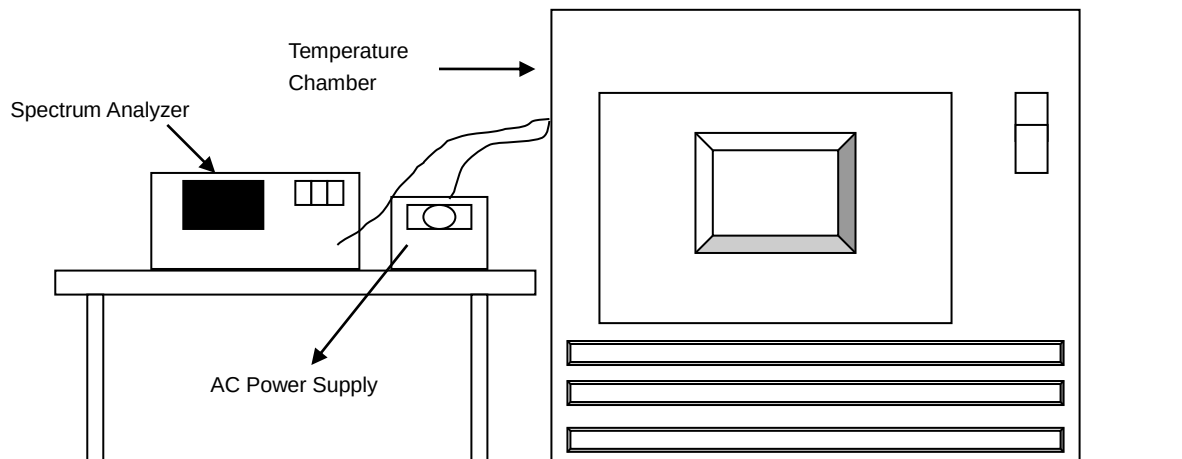


4.6 Frequency Stability Measurement

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

Refer to section 4.1.2 to get information of above instrument.

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: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
70	3.3	5179.9792	Pass	5179.9777	Pass	5179.9781	Pass	5179.9824	Pass
60	3.3	5179.9932	Pass	5179.9922	Pass	5179.9911	Pass	5179.9914	Pass
50	3.3	5179.9781	Pass	5179.9766	Pass	5179.9794	Pass	5179.9773	Pass
40	3.3	5179.9937	Pass	5179.9937	Pass	5179.9956	Pass	5179.9974	Pass
30	3.3	5179.9799	Pass	5179.9777	Pass	5179.978	Pass	5179.9792	Pass
20	3.3	5180.0036	Pass	5180.0014	Pass	5180.0006	Pass	5180.004	Pass
10	3.3	5179.9964	Pass	5179.9964	Pass	5179.9917	Pass	5179.9954	Pass
0	3.3	5179.9766	Pass	5179.978	Pass	5179.9792	Pass	5179.9779	Pass
-10	3.3	5180.0063	Pass	5180.0046	Pass	5180.0083	Pass	5180.0047	Pass

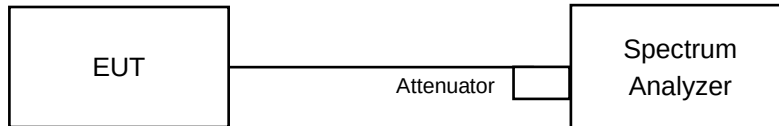
Frequency Stability Versus Voltage									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vdc)	0 Minute		2 Minutes		5 Minutes		10 Minutes	
		Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail	Measured Frequency (MHz)	Pass/Fail
20	3.795	5180.0043	Pass	5180.0008	Pass	5180.0009	Pass	5180.0033	Pass
	3.3	5180.0036	Pass	5180.0014	Pass	5180.0006	Pass	5180.004	Pass
	2.805	5180.003	Pass	5180.002	Pass	5180.0005	Pass	5180.0032	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

MEASUREMENT PROCEDURE REF

- 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)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (U-NII-3 Band)	5720	2.97	2.99	0.5	Pass
149	5745	16.31	16.35	0.5	Pass
157	5785	16.32	16.36	0.5	Pass
165	5825	16.32	16.39	0.5	Pass

802.11ax (HE20)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (U-NII-3 Band)	5720	4.26	4.4	0.5	Pass
149	5745	19.03	18.98	0.5	Pass
157	5785	18.9	18.72	0.5	Pass
165	5825	18.72	18.63	0.5	Pass

802.11ax (HE40)

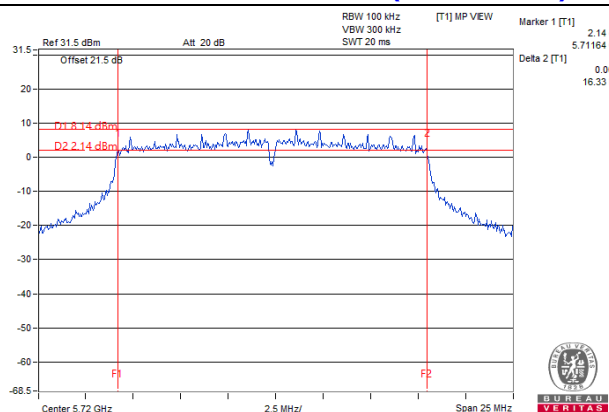
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142 (U-NII-3 Band)	5710	1.01	2.56	0.5	Pass
151	5755	35.21	32.73	0.5	Pass
159	5795	34.44	35.2	0.5	Pass

802.11ax (HE80)

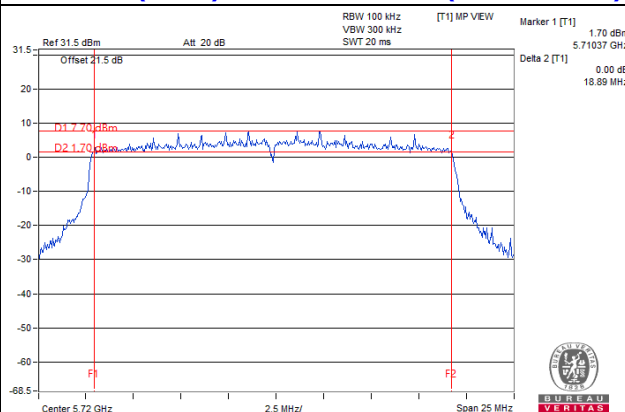
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138 (U-NII-3 Band)	5690	2.48	2.7	0.5	Pass
155	5775	75.16	72.98	0.5	Pass

Spectrum Plot of Worst Value

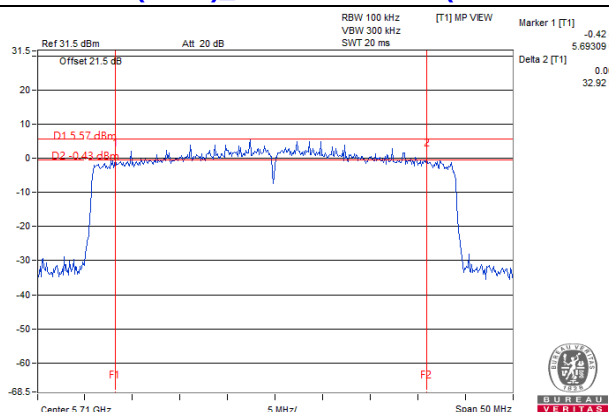
802.11a_Chain 0 / CH144 (U-NII-3 Band)



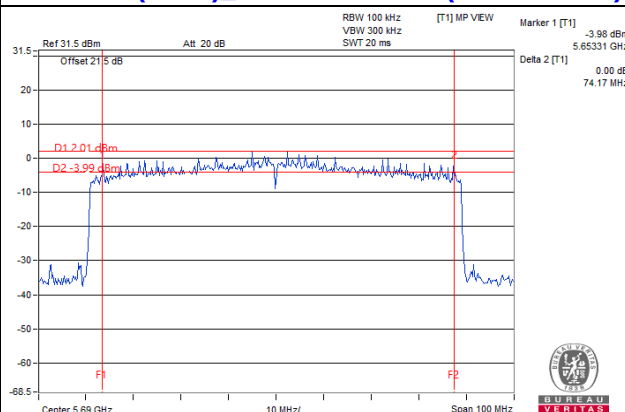
802.11ax (HE20)_Chain 0 / CH144 (U-NII-3 Band)



802.11ax (HE40)_Chain 0 / CH142 (U-NII-3 Band)



802.11ax (HE80)_Chain 0 / CH138 (U-NII-3 Band)



Note: The 6dB bandwidth above 5725MHz = Marker 1 + Delta 2 - 5725MHz

5 Pictures of Test Arrangements

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

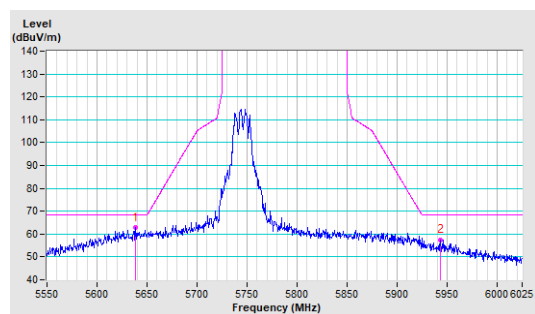
Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

Annex A.1 – Test Results (Mode 1)

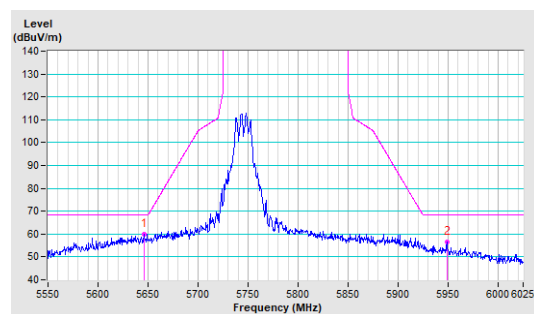
802.11a

CH 149 5745 MHz

Horizontal

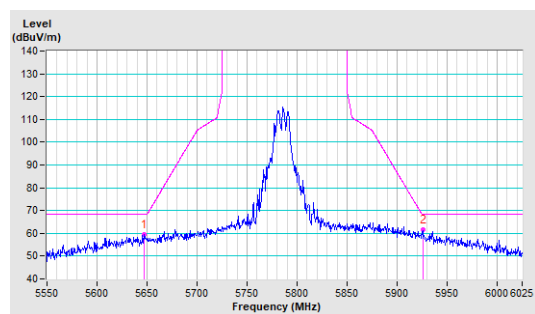


Vertical

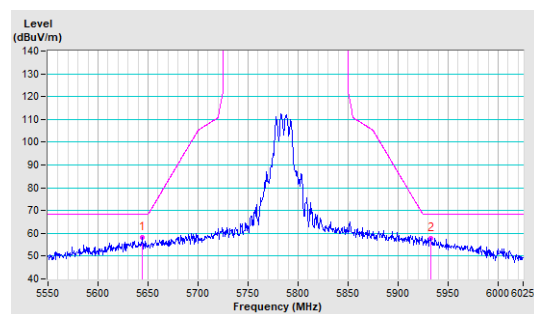


CH 157 5785 MHz

Horizontal

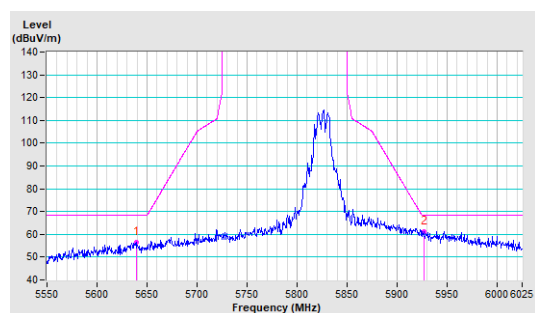


Vertical

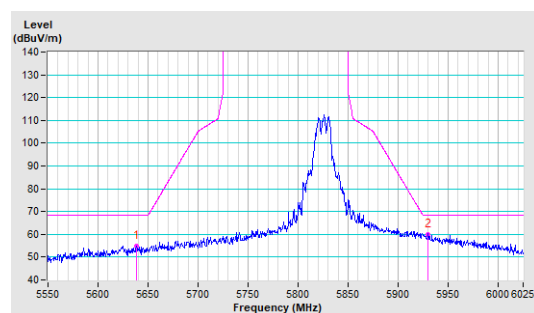


CH 165 5825 MHz

Horizontal



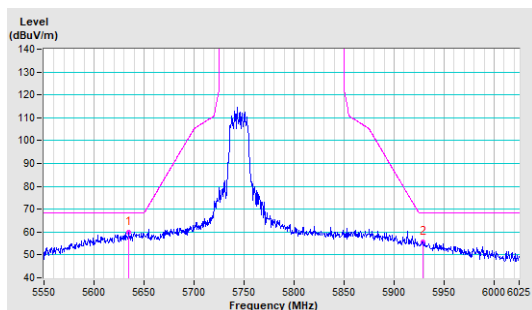
Vertical



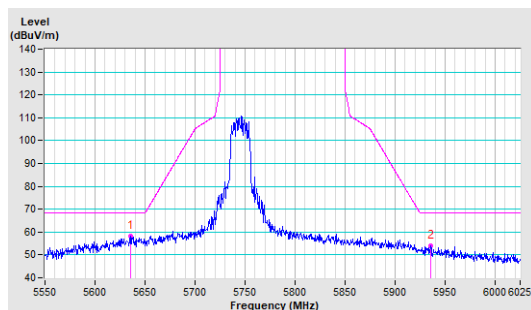
802.11ax (HE20)

CH 149 5745 MHz

Horizontal

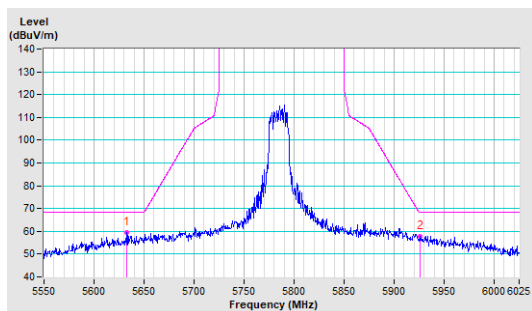


Vertical

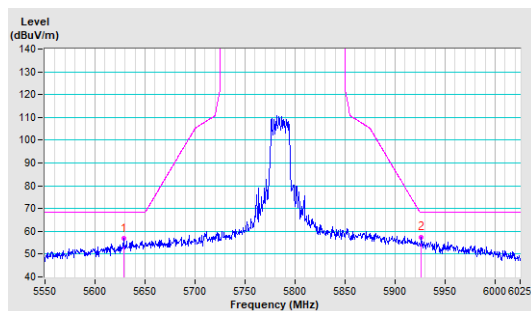


CH 157 5785 MHz

Horizontal

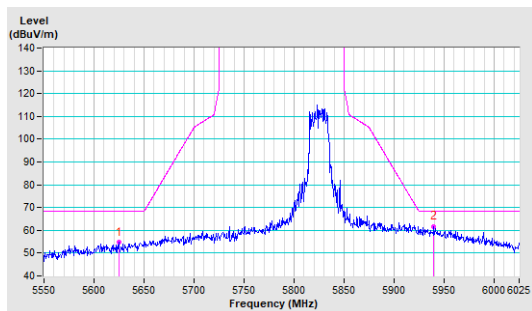


Vertical

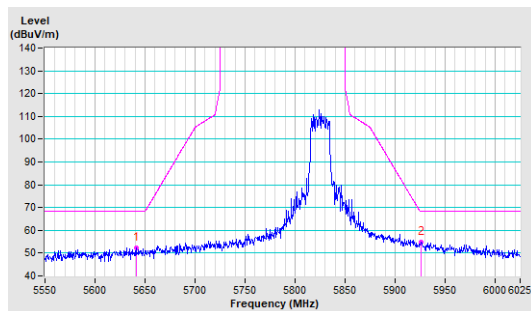


CH 165 5825 MHz

Horizontal



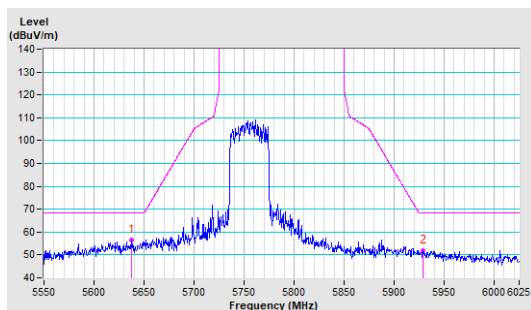
Vertical



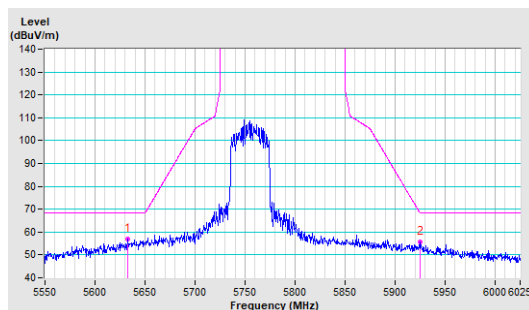
802.11ax (HE40)

CH 151 5755 MHz

Horizontal

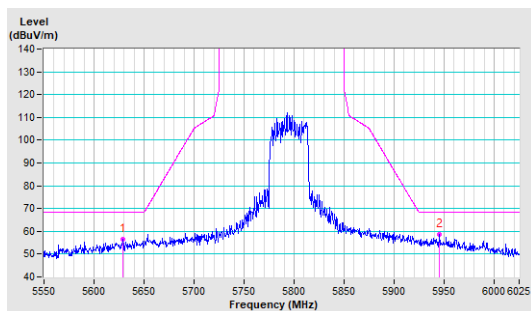


Vertical

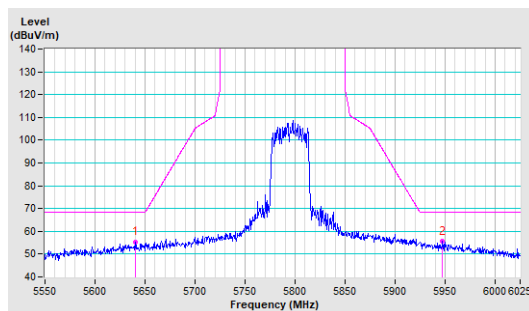


CH 159 5795 MHz

Horizontal



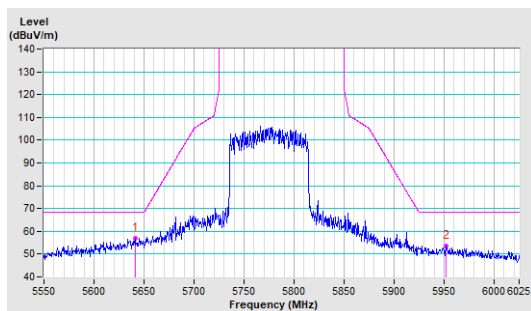
Vertical



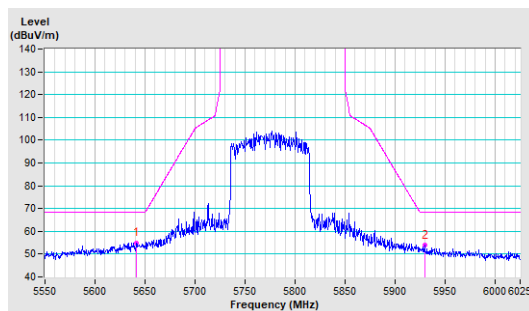
802.11ax (HE80)

CH 155 5775 MHz

Horizontal



Vertical

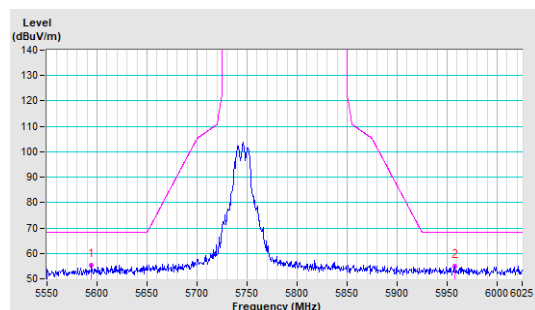


Annex A.2 – Test Results (Mode 2)

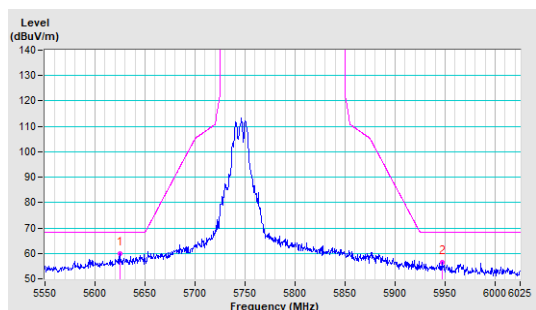
802.11a

CH 149 5745 MHz

Horizontal

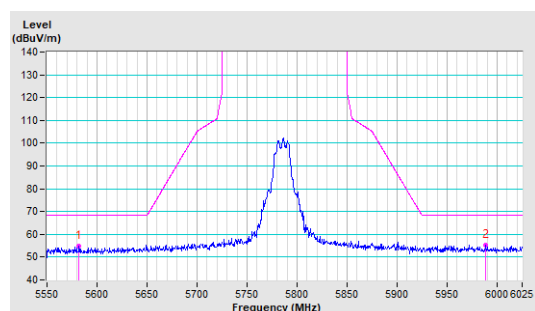


Vertical

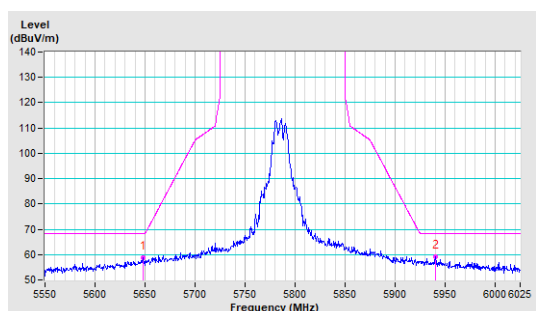


CH 157 5785 MHz

Horizontal

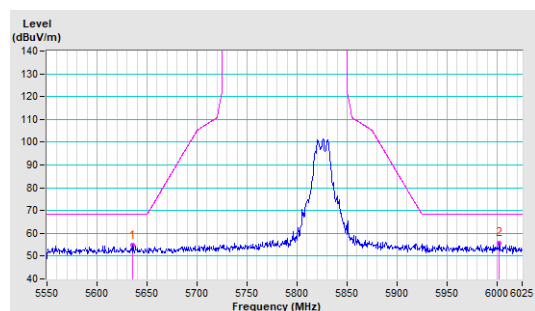


Vertical

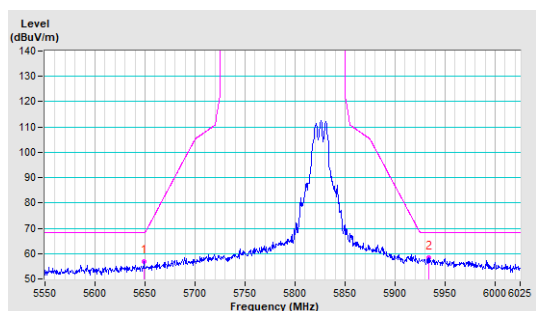


CH 165 5825 MHz

Horizontal



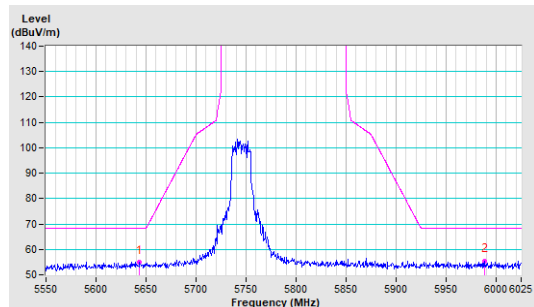
Vertical



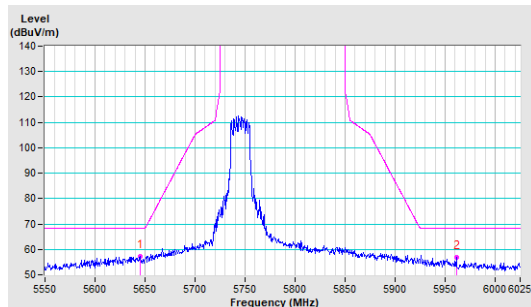
802.11ax (HE20)

CH 149 5745 MHz

Horizontal

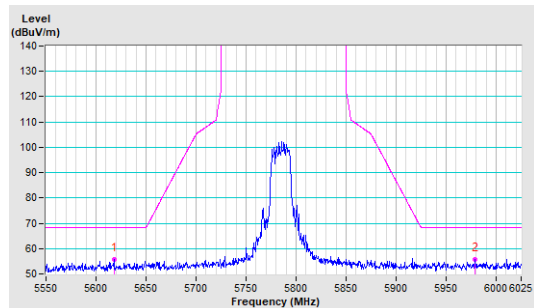


Vertical

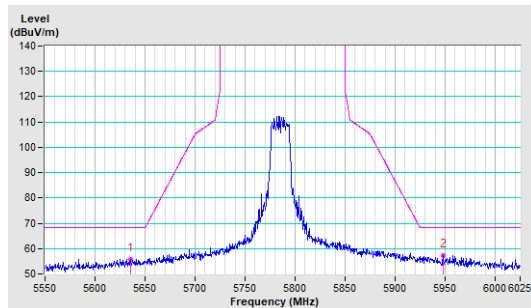


CH 157 5785 MHz

Horizontal

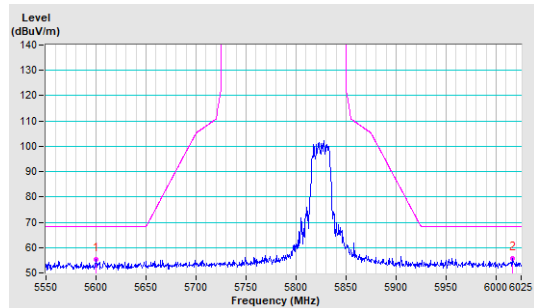


Vertical

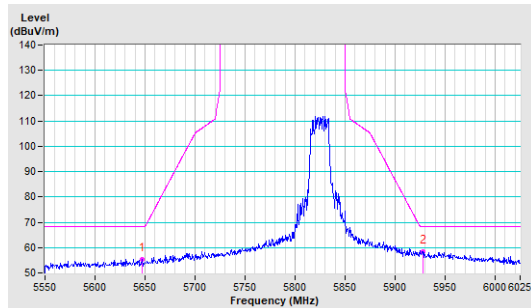


CH 165 5825 MHz

Horizontal



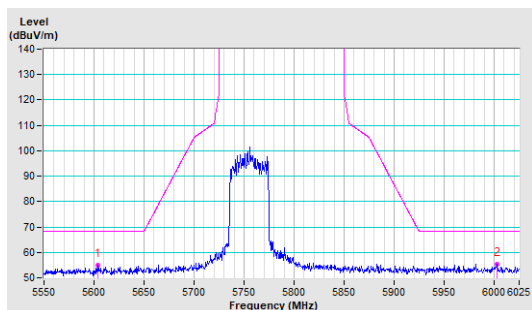
Vertical



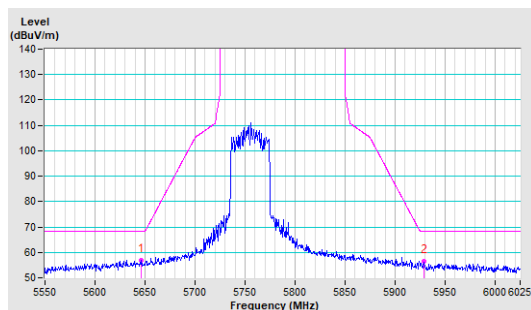
802.11ax (HE40)

CH 151 5755 MHz

Horizontal

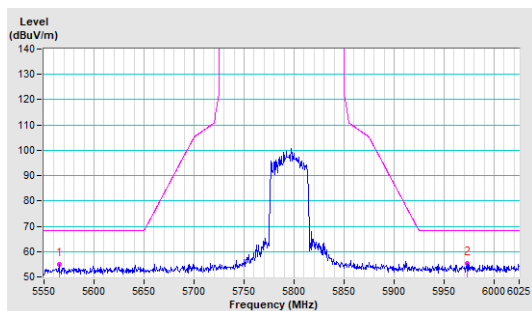


Vertical

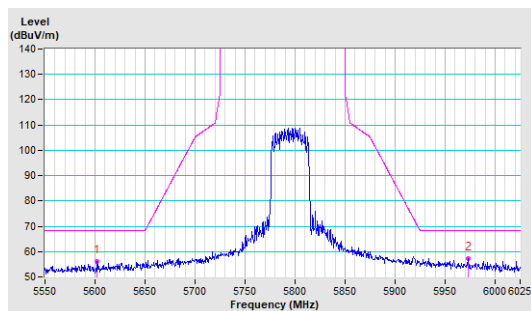


CH 159 5795 MHz

Horizontal



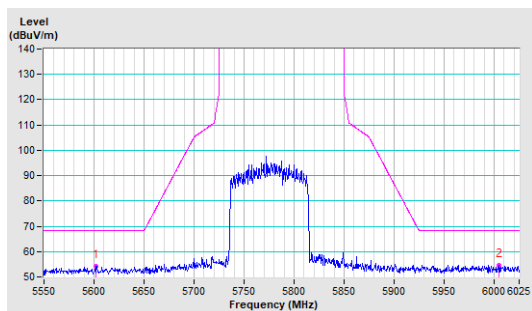
Vertical



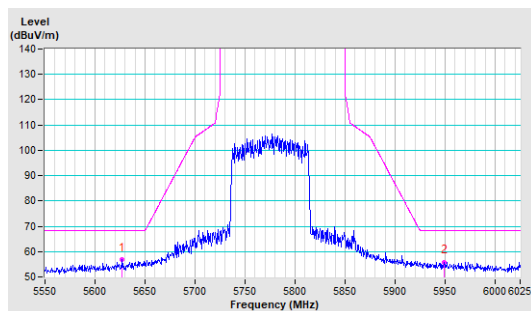
802.11ax (HE80)

CH 155 5775 MHz

Horizontal



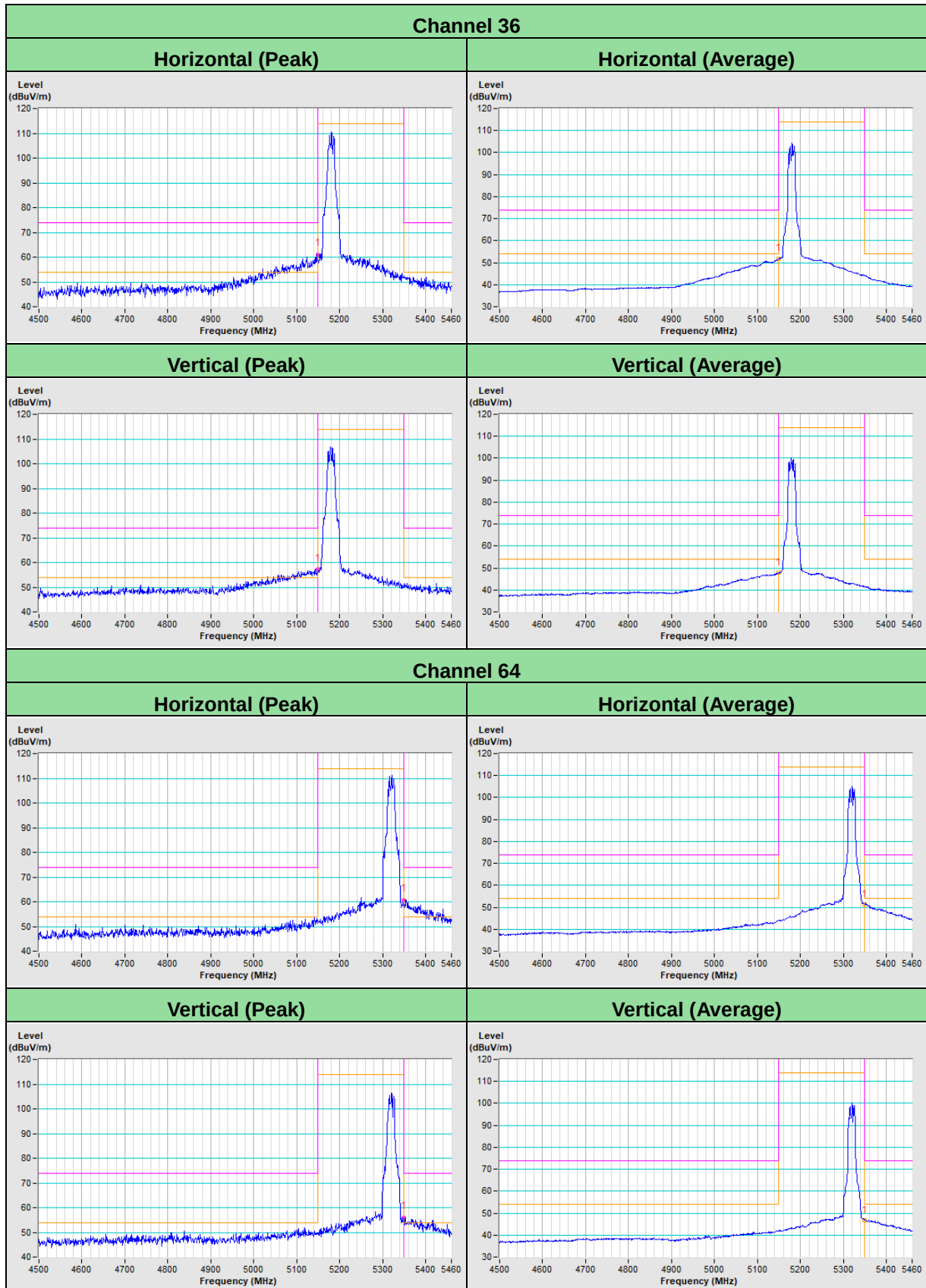
Vertical

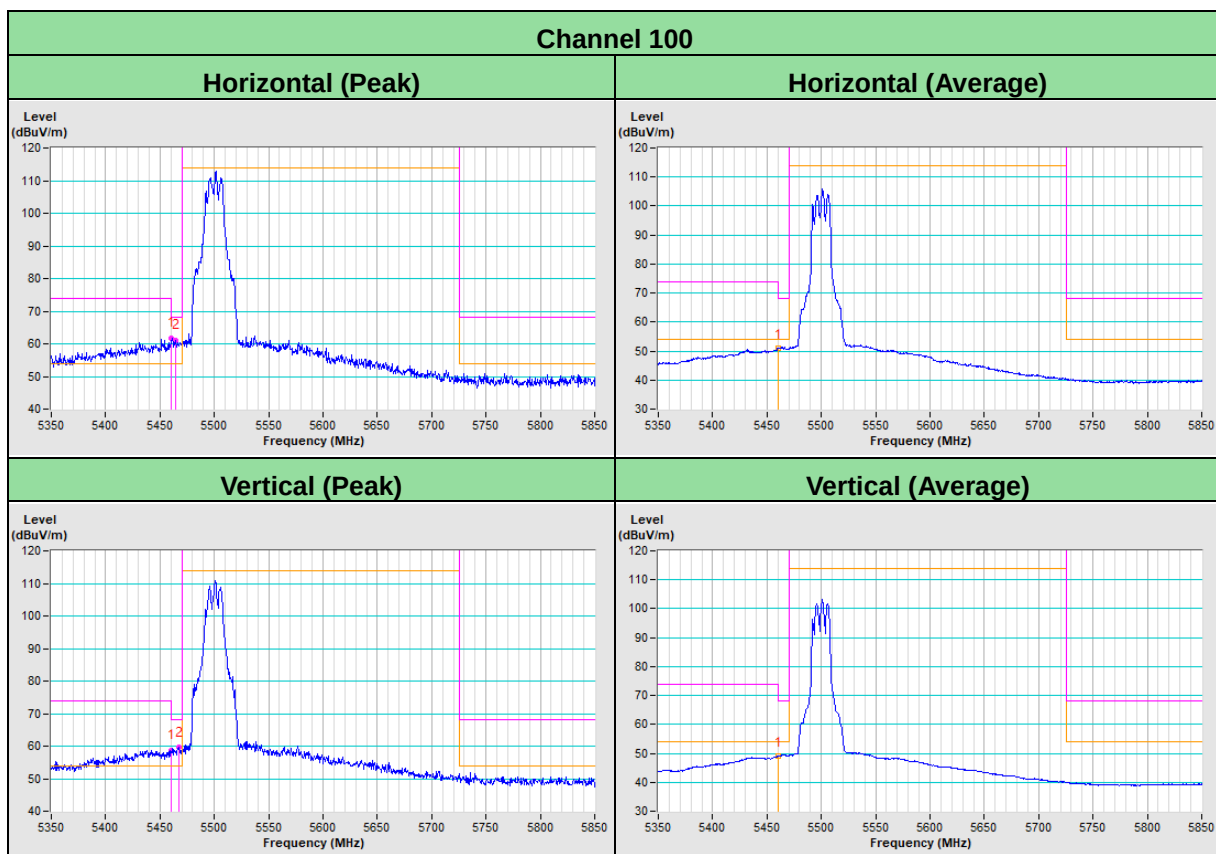


Annex B - Band-Edge Measurement (For U-NII-1, U-NII-2A, U-NII-2C band)

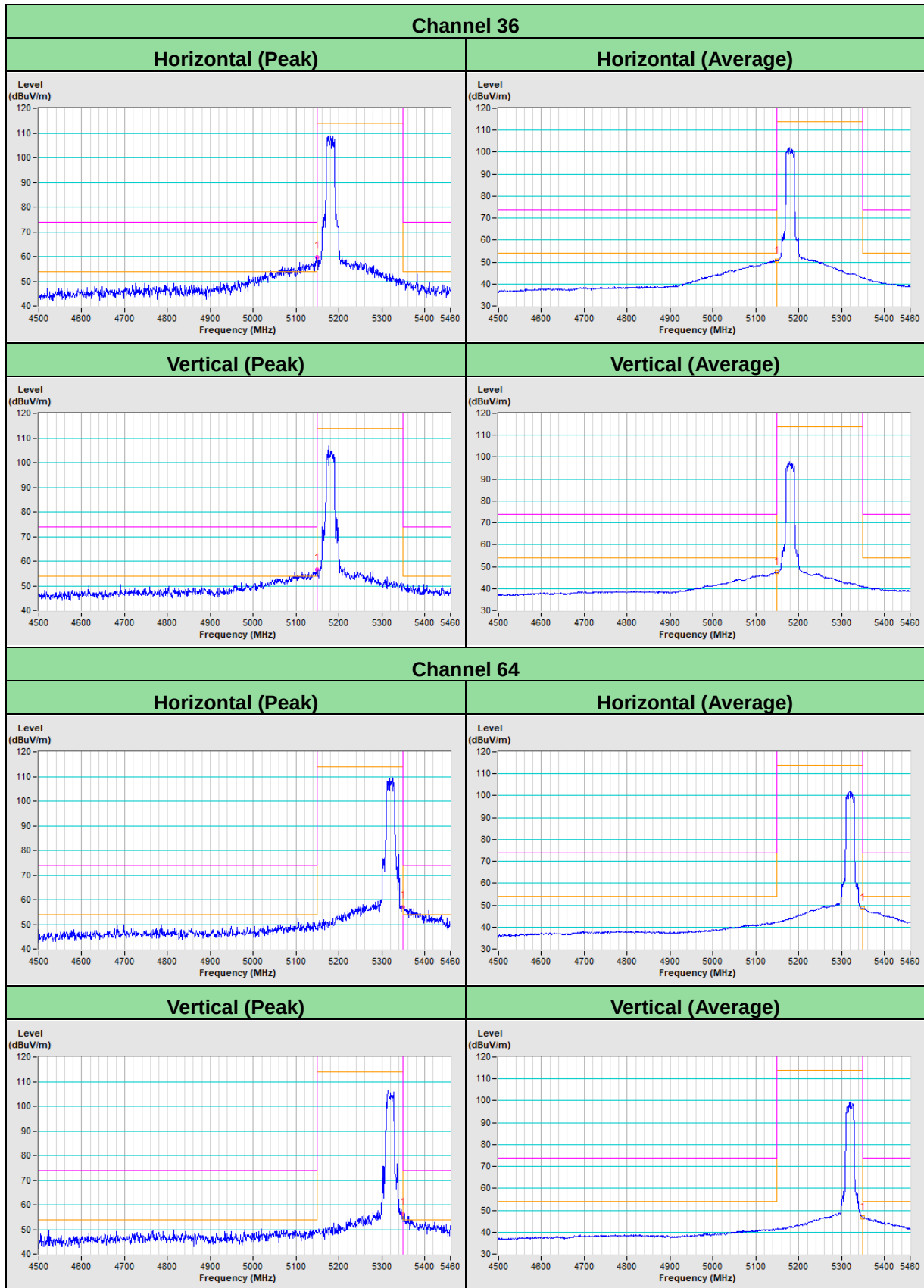
Annex B.1 – Test Results (Mode 1)

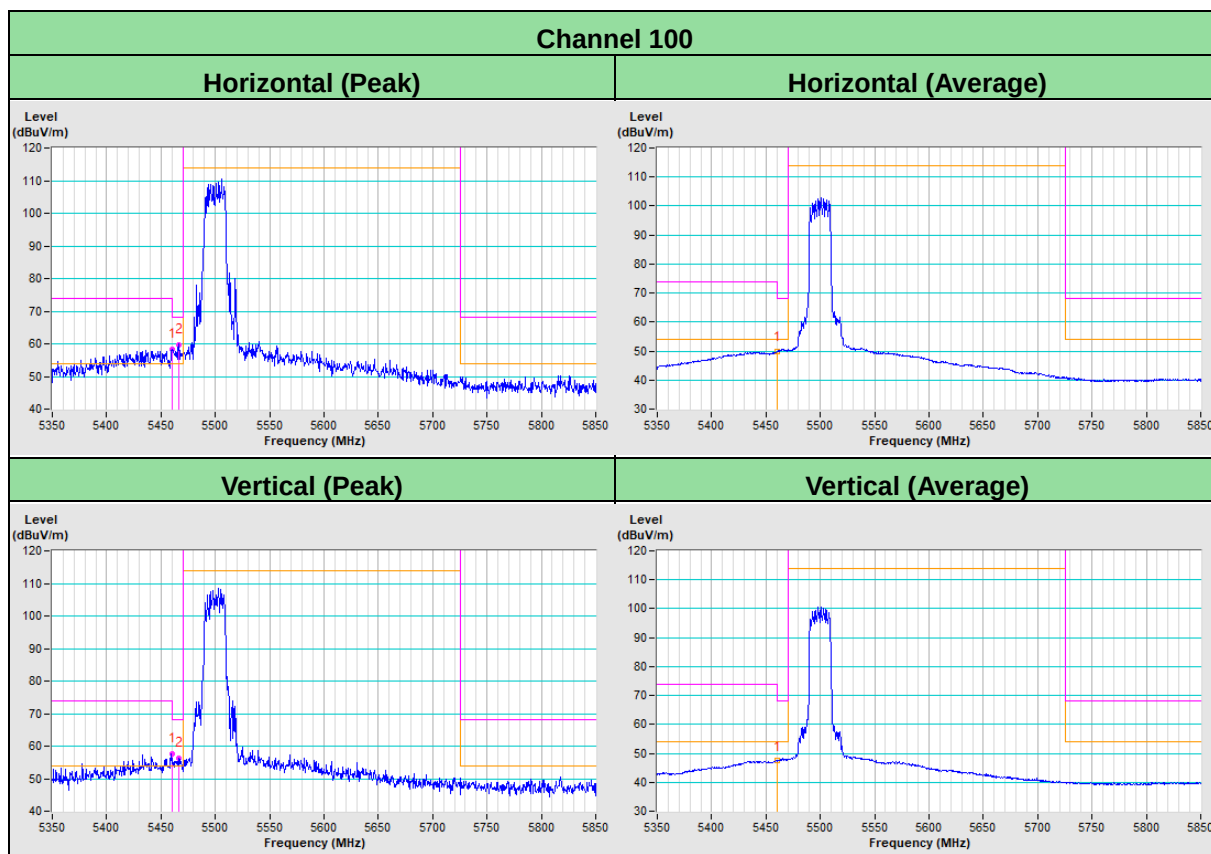
802.11a



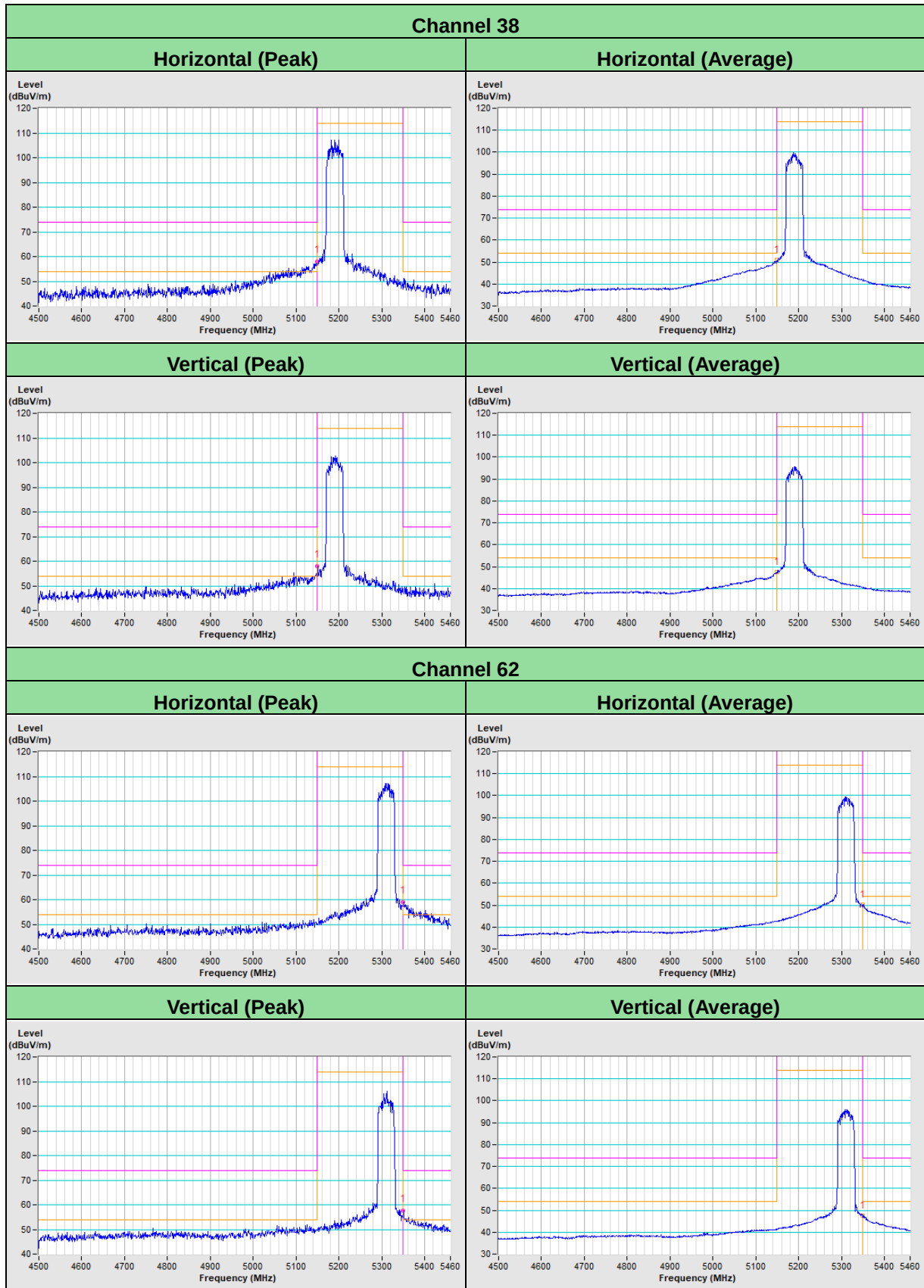


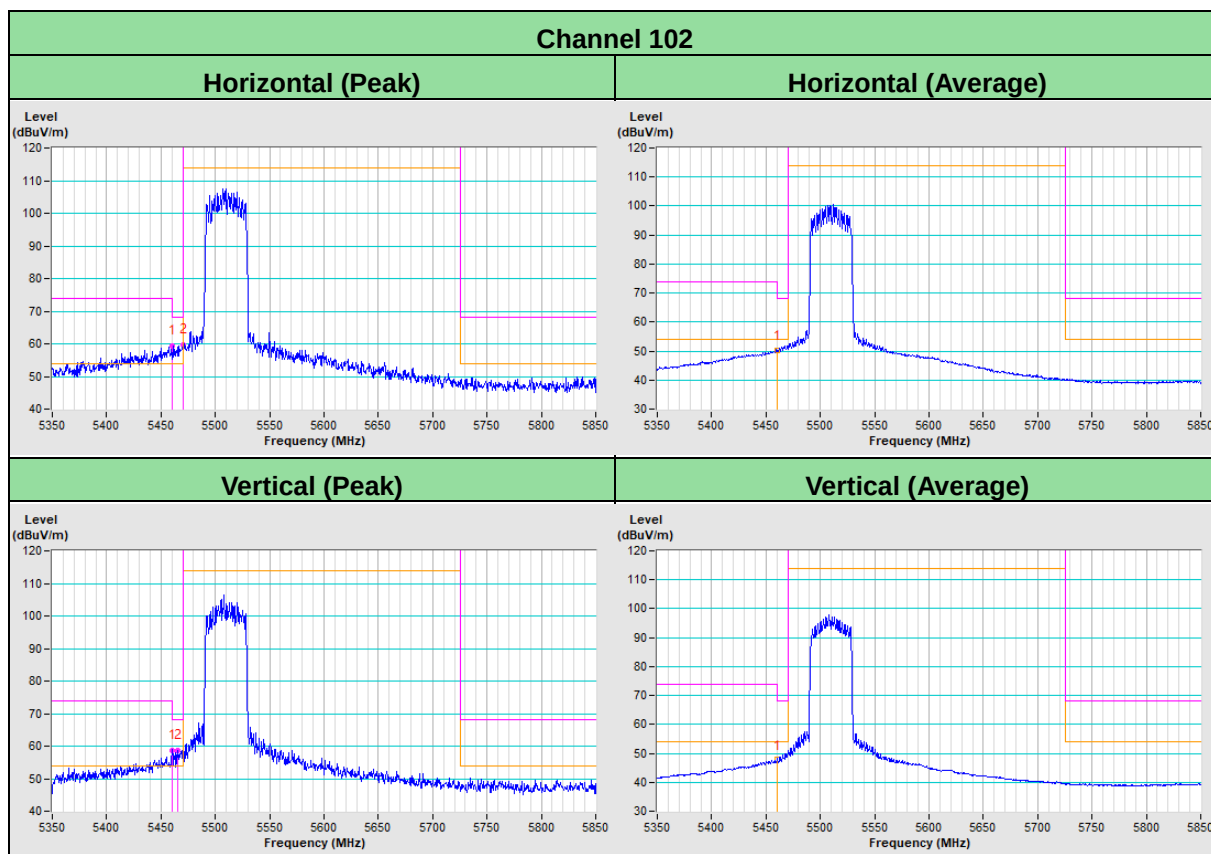
802.11ax (HE20)



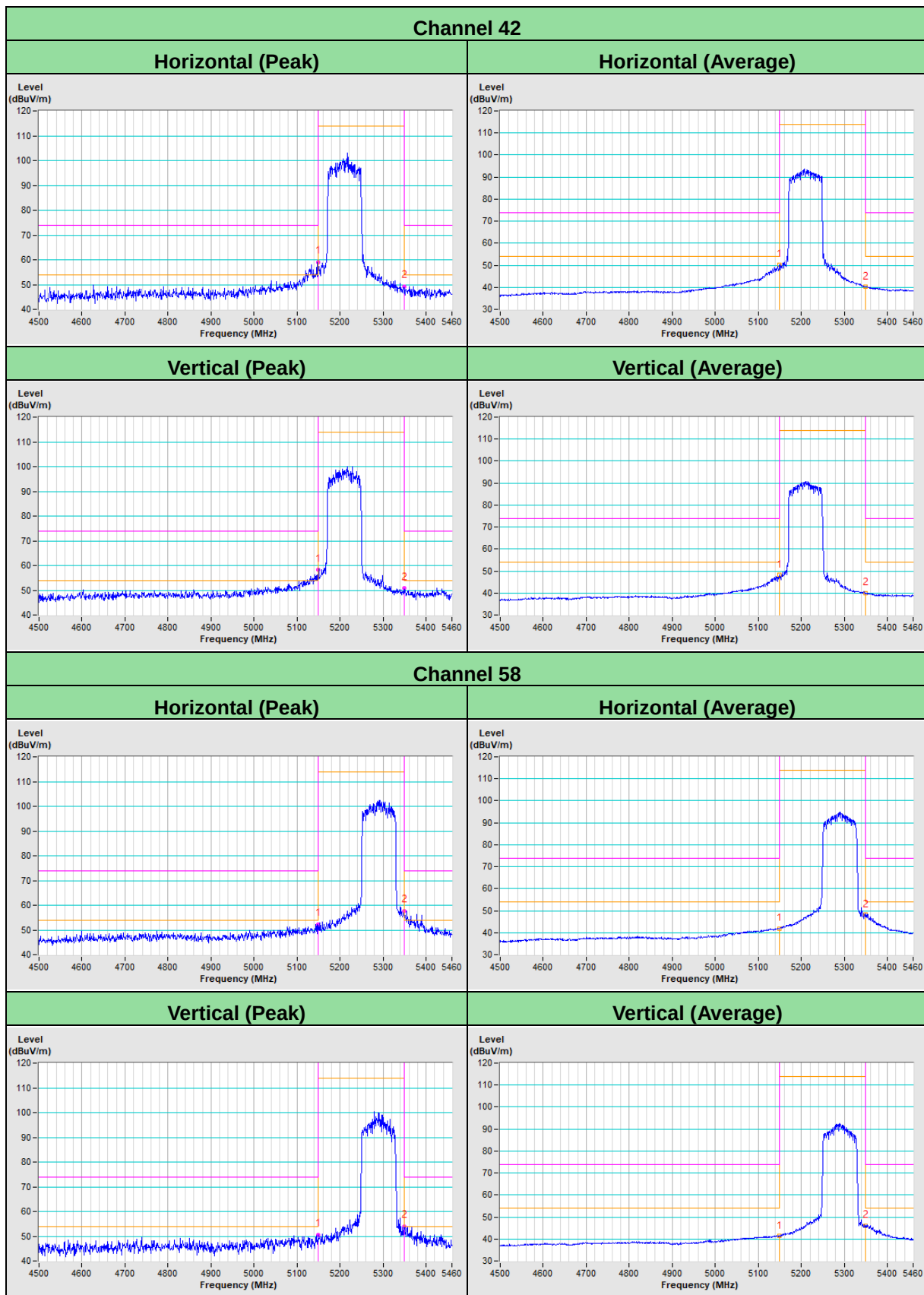


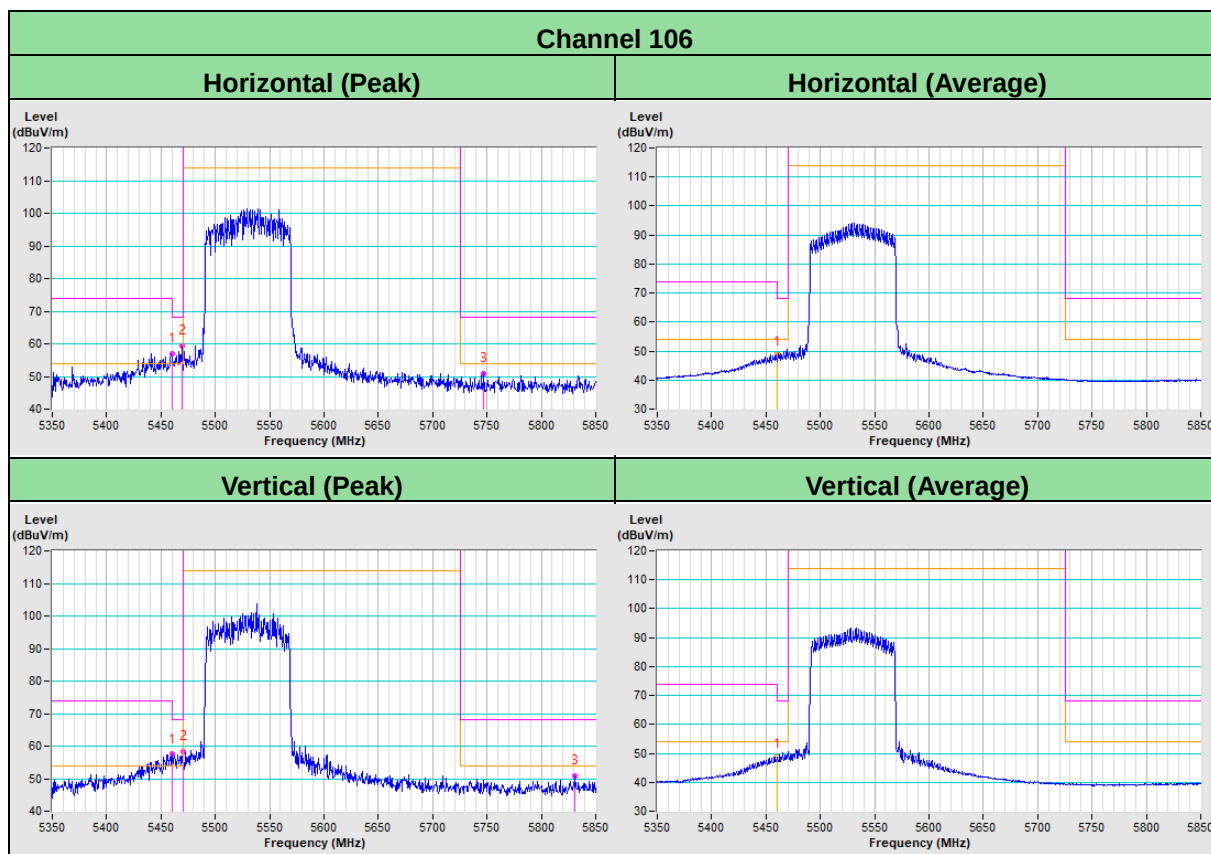
802.11ax (HE40)





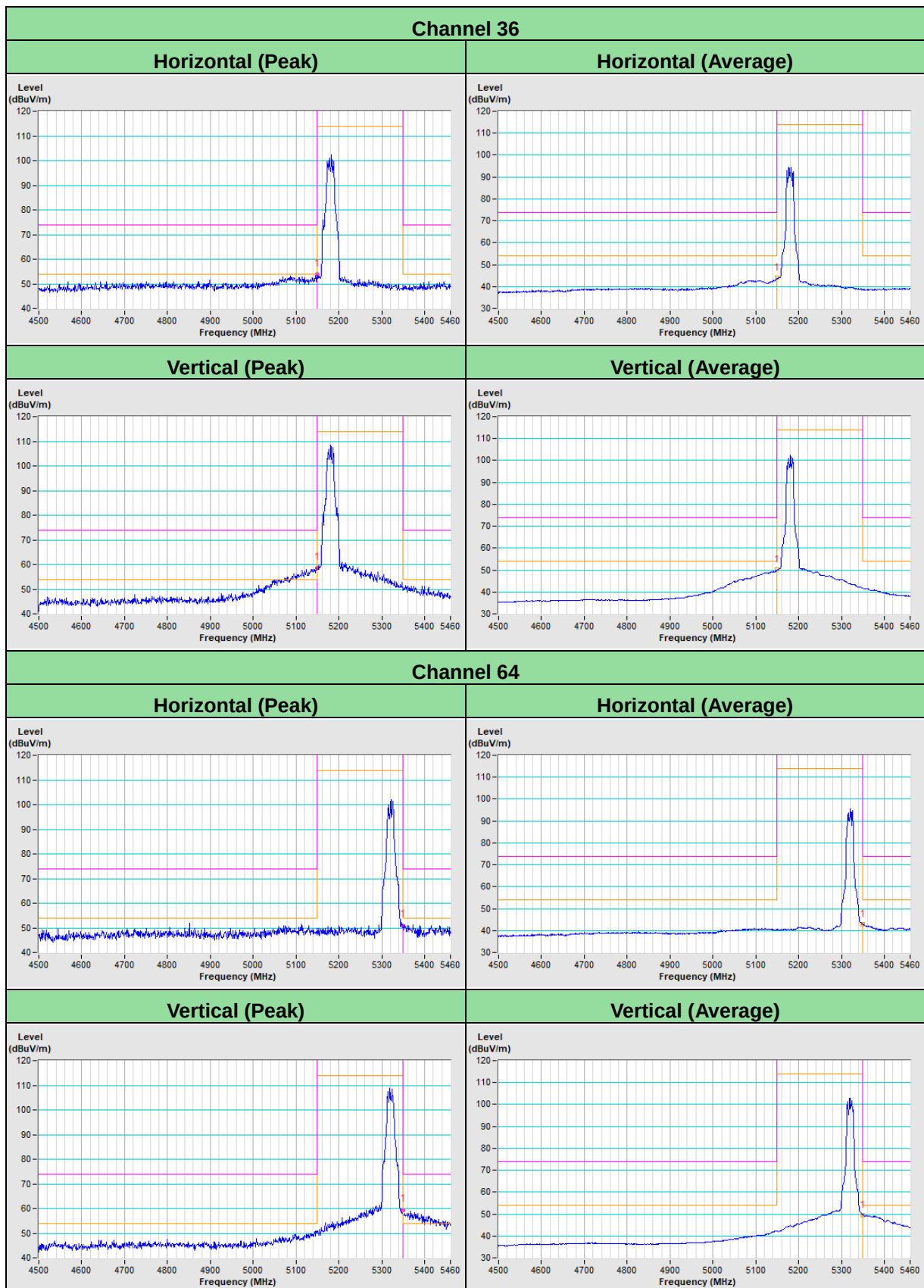
802.11ax (HE80)

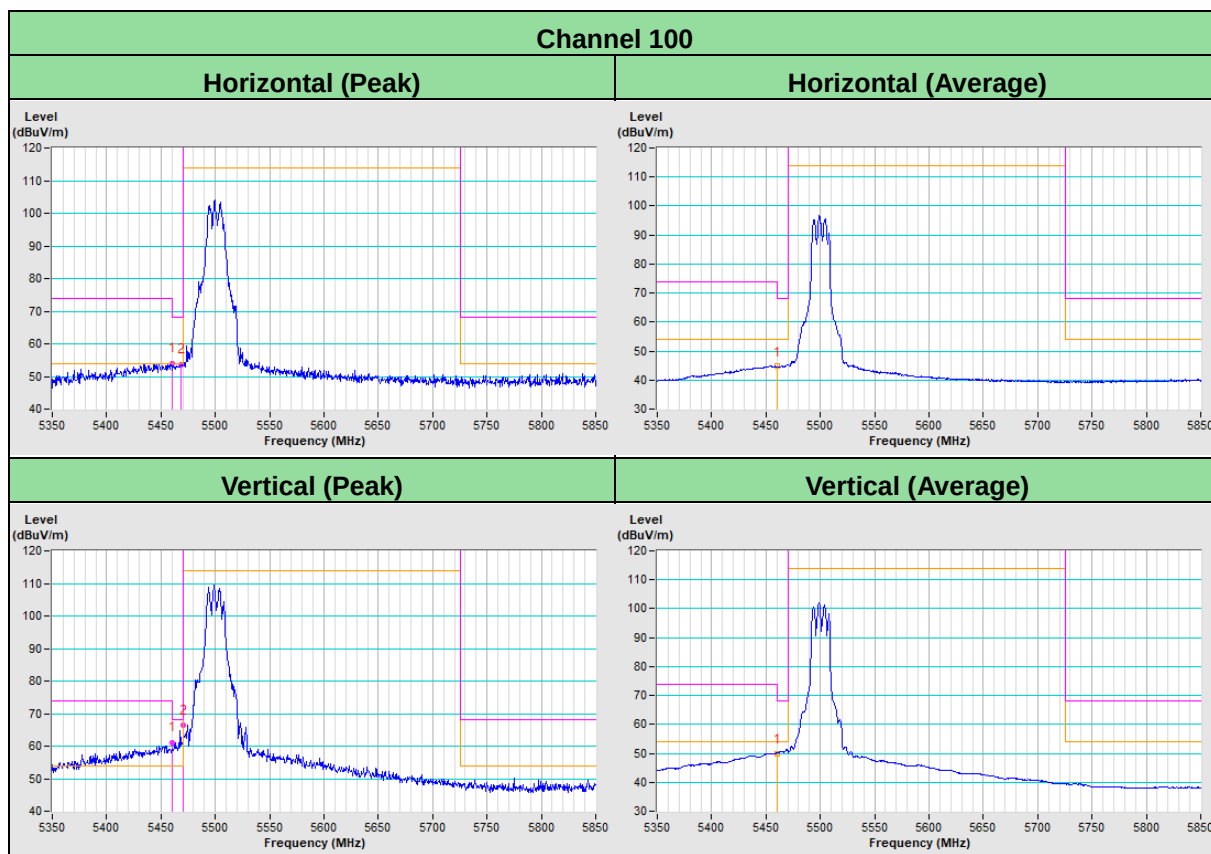




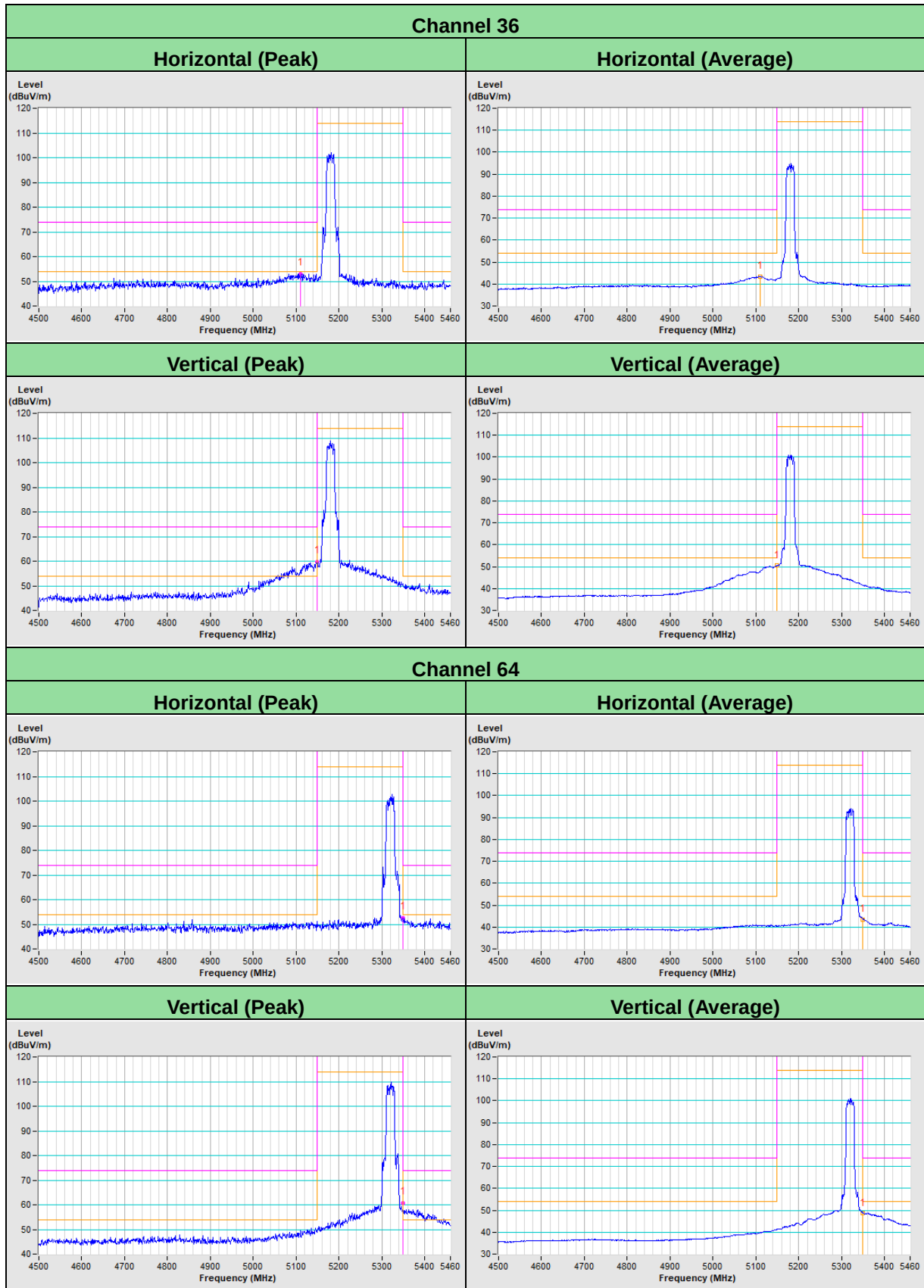
Annex B.2 – Test Results (Mode 2)

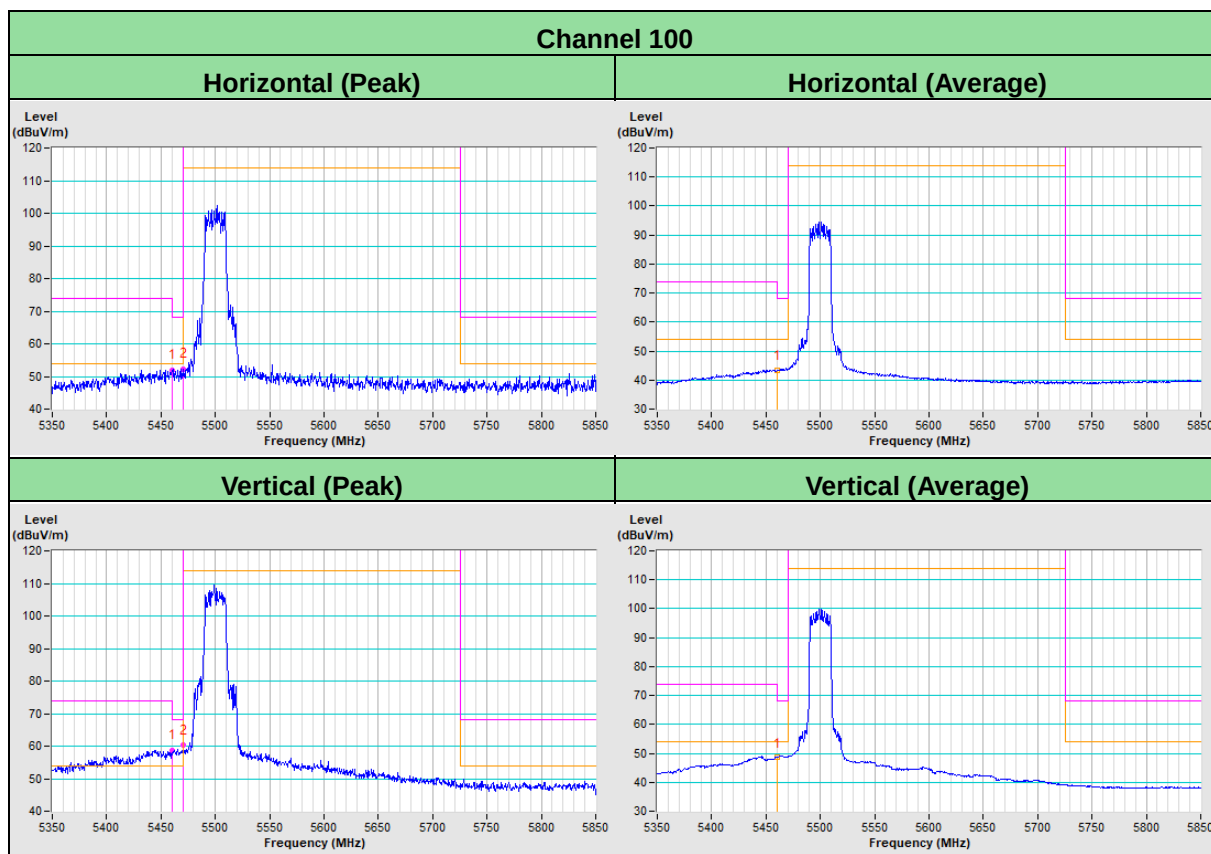
802.11a



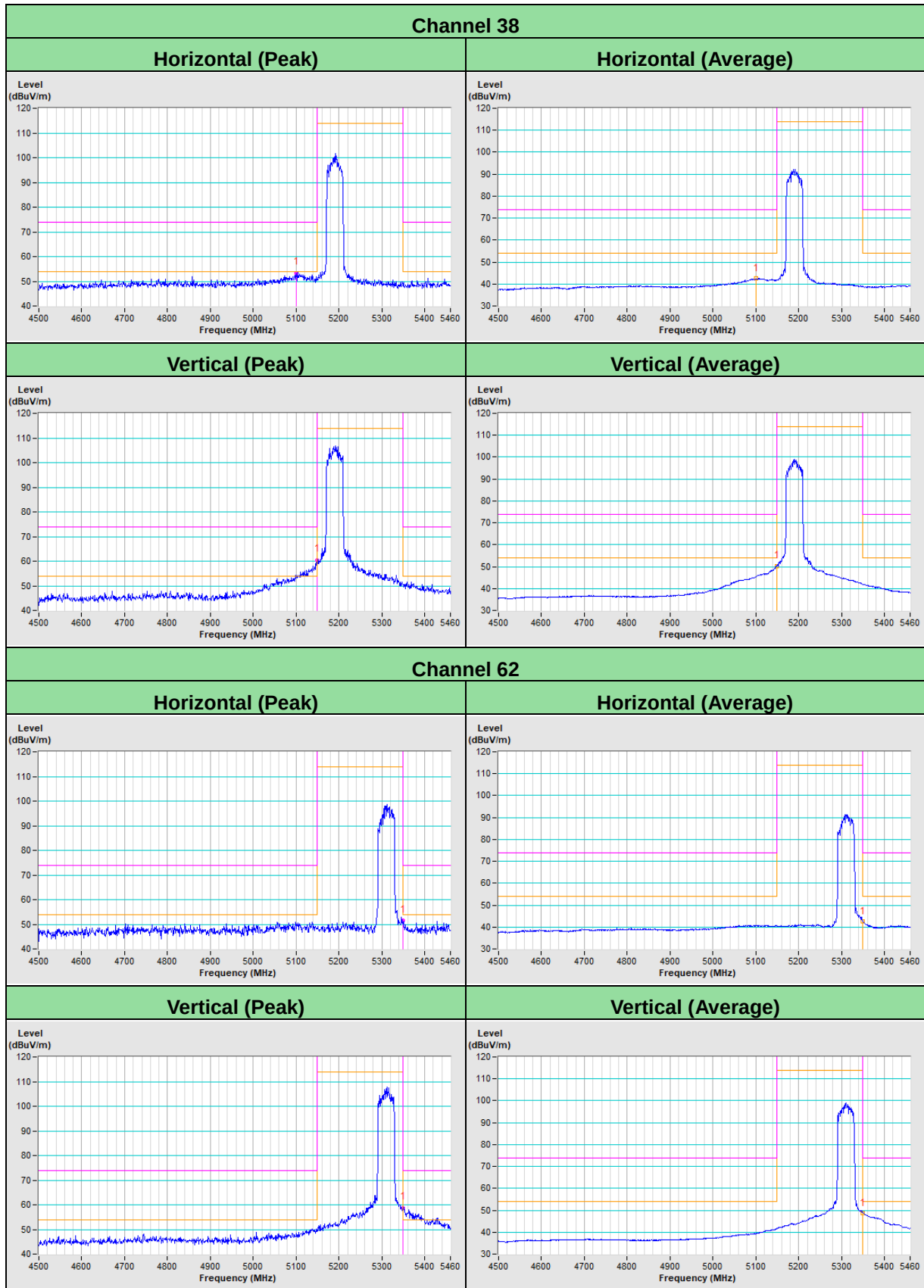


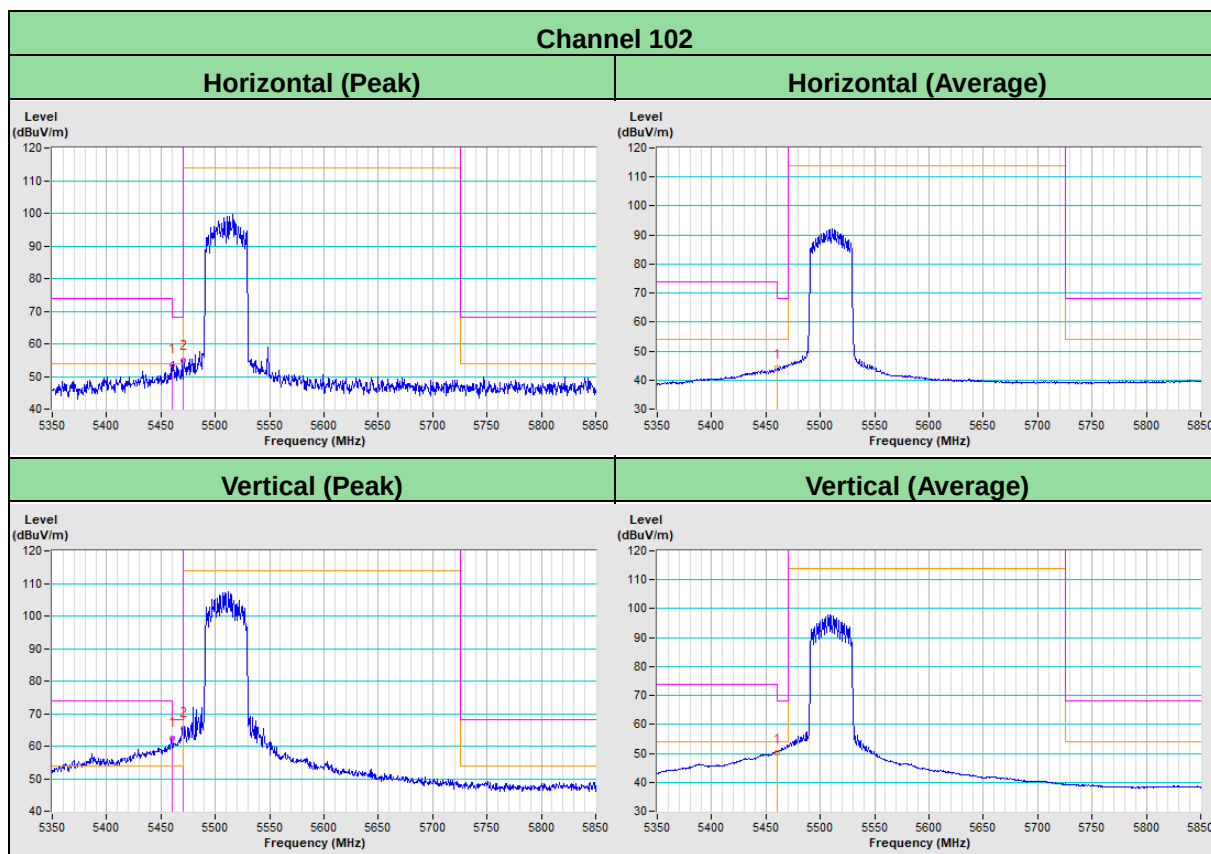
802.11ax (HE20)



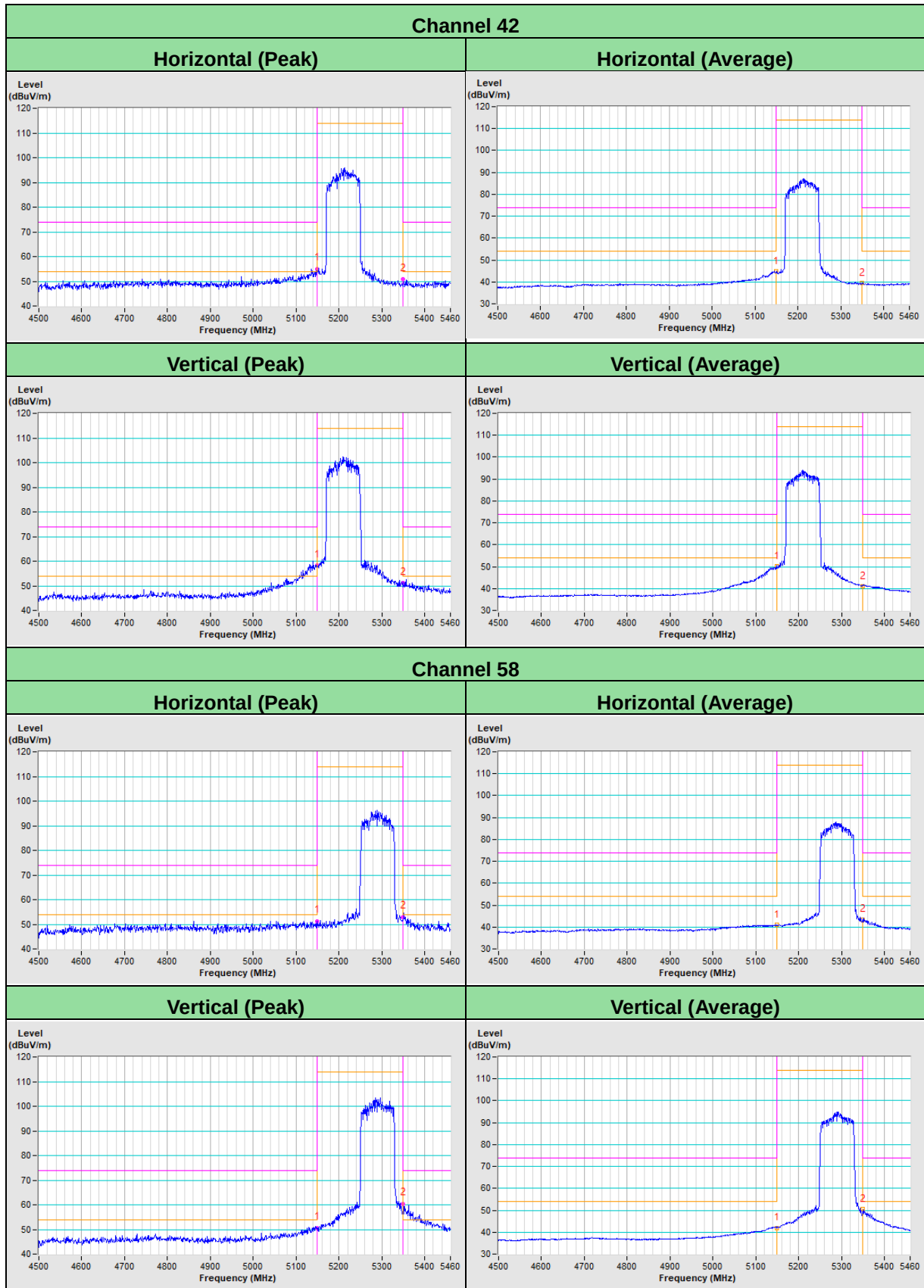


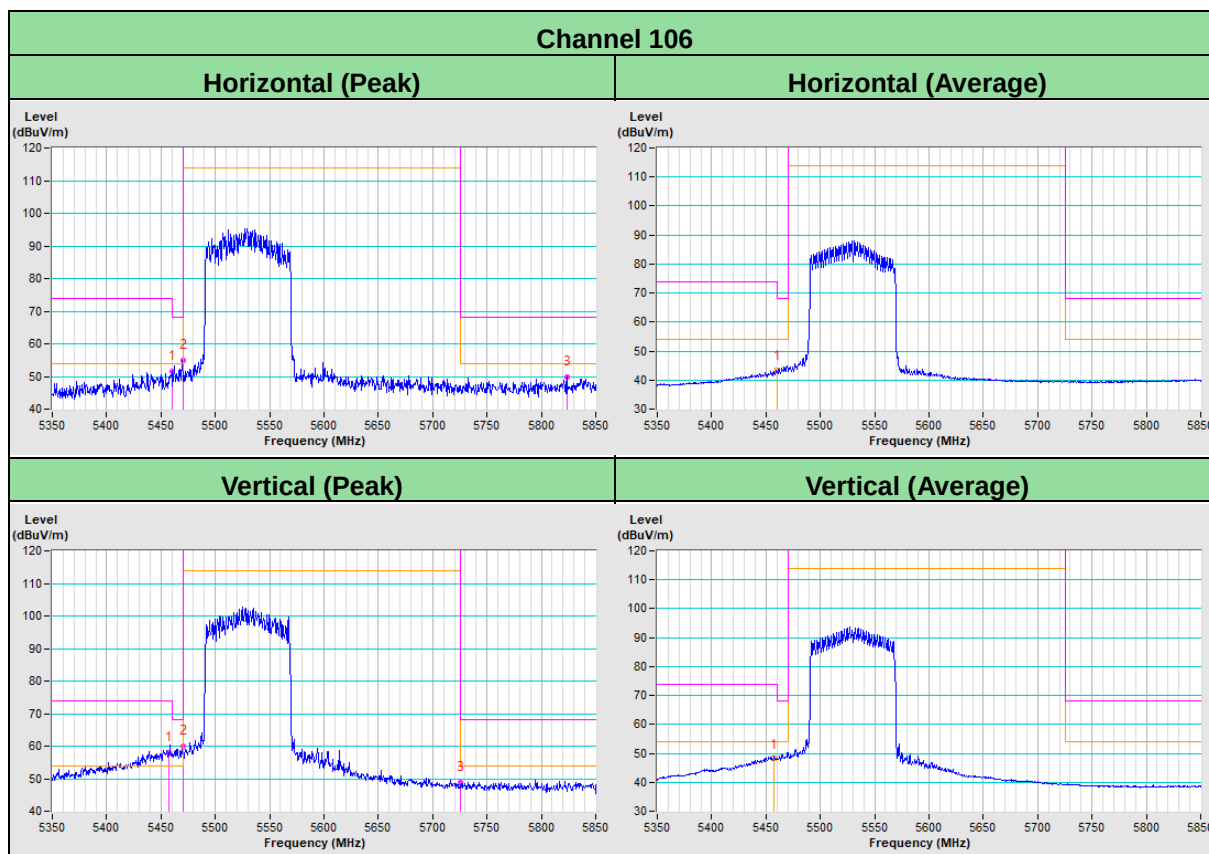
802.11ax (HE40)





802.11ax (HE80)





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 according to ISO/IEC 17025.

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Web Site: www.bureauveritas-adt.com

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

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