

TEST REPORT

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Address	Hästholsvägen 32, 5 th floor, 131 30 Nacka, SWEDEN

Manufacturer or Supplier	sms evoko group AB
Address	Hästholsvägen 32, 5 th floor, 131 30 Nacka, SWEDEN
Product Name	Kleeco desk manager
Brand Name	Evoko
Model	EDM1001
Additional Model & Model Difference	N/A
Date of tests	Dec. 12, 2021 ~ Feb. 14, 2022

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart E, Section 15.407**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Andy Zhu Supervisor / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
	 Date: May 07, 2022

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TABLE OF CONTENTS

RELEASE CONTROL RECORD	4
1. SUMMARY OF TEST RESULTS.....	5
1.1 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT.....	6
2.2 DESCRIPTION OF TEST MODES.....	6
2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL	9
2.3 DUTY CYCLE OF TEST SIGNAL	12
2.4 DESCRIPTION OF SUPPORT UNITS.....	13
2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS.....	13
3. TEST TYPES AND RESULTS.....	14
3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT	14
3.1.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT.....	14
3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS	15
3.1.3 TEST INSTRUMENTS.....	16
3.1.4 TEST PROCEDURES	17
3.1.5 DEVIATION FROM TEST STANDARD	17
3.1.6 TEST SETUP.....	18
3.1.7 EUT OPERATING CONDITION	19
3.1.8 TEST RESULTS	20
3.2 CONDUCTED EMISSION MEASUREMENT	83
3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT	85
3.2.2 TEST INSTRUMENTS.....	85
3.2.3 TEST PROCEDURES	86
3.2.4 DEVIATION FROM TEST STANDARD	86
3.2.5 TEST SETUP.....	86
3.2.6 EUT OPERATING CONDITIONS	86
3.2.7 TEST RESULTS	87
3.3 TRANSMIT POWER MEASUREMENT	89

3.3.1	LIMITS OF TRANSMIT POWER MEASUREMENT	89
3.3.2	TEST SETUP	89
3.3.3	TEST INSTRUMENTS.....	90
3.3.4	TEST PROCEDURE.....	90
3.3.5	DEVIATION FROM TEST STANDARD	91
3.3.6	EUT OPERATING CONDITIONS	91
3.3.7	TEST RESULTS	92
3.4	PEAK POWER SPECTRAL DENSITY MEASUREMENT.....	105
3.4.1	LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT	105
3.4.2	TEST SETUP	105
3.4.3	TEST INSTRUMENTS.....	105
3.4.4	TEST PROCEDURES	105
3.4.5	DEVIATION FROM TEST STANDARD	106
3.4.6	EUT OPERATING CONDITIONS	106
3.4.7	TEST RESULTS	107
3.5	FREQUENCY STABILITY	124
3.5.1	LIMITS OF FREQUENCY STABILITY MEASUREMENT	124
3.5.2	TEST SETUP	124
3.5.3	TEST INSTRUMENTS.....	124
3.5.4	TEST PROCEDURE.....	125
3.5.5	DEVIATION FROM TEST STANDARD	125
3.5.6	EUT OPERATING CONDITION	125
3.5.7	TEST RESULTS	126
4.	PHOTOGRAPHS OF THE TEST CONFIGURATION.....	127
5.	APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB	128



Test Report No.: RF2112WDG3089-3

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2112WDG3089-3	Original release.	May 07, 2022

1. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407 UNDER NEW RULE)			
STANDARD SECTION	TEST TYPE	RESULT	REMARK
15.407(b)(6)	AC Power Conducted Emissions	PASS	Meet the requirement of limit.
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Max Average Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	Antenna connector is i-pex not a standard connector.

1.1 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	UNCERTAINTY
Conducted emissions	9kHz~30MHz	3.05dB
Radiated emissions	9KHz ~ 30MHz	2.16dB
	30MHz ~ 1GMHz	3.63dB
	1GHz ~ 18GHz	4.96dB
	18GHz ~ 40GHz	4.37dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Kleeco desk manager
BRAND	Evoko
MODEL NO.	EDM1001
ADDITIONAL MODEL	N/A
FCC ID	2AH64-EDM1001
POWER SUPPLY	DC 5V by USB Type-C Port
MODULATION TECHNOLOGY	OFDM
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM
TRANSFER RATE	Refer to user's manual
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	See section 3.2
CONDUCTED OUTPUT POWER	85.507mW for 5150 ~ 5250MHz (Maximum AVG Power) 81.096mW for 5250 ~ 5350MHz (Maximum AVG Power) 30.409mW for 5470 ~ 5725MHz (Maximum AVG Power) 23.014mW for 5725 ~ 5850MHz (Maximum AVG Power)
ANTENNA TYPE	5180 ~ 5240MHz: PCB antenna with 1.61dBi gain 5260 ~ 5320MHz: PCB antenna with 1.18dBi gain 5500 ~ 5700MHz: PCB antenna with 1.30dBi gain 5745 ~ 5825MHz: PCB antenna with -0.27dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	Refer to user's manual

NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2112WDG3089) for detailed product photo.
- The EUT incorporates a SISO function. Physically, the EUT provides 1 completed transmitter and 1 receiver.

MODULATION MODE	TX/RX FUNCTION
802.11a	1TX/1RX
802.11n (HT20), 802.11ac (VHT20)	1TX/1RX
802.11n (HT40), 802.11ac (VHT40)	1TX/1RX
802.11ac (VHT80)	1TX/1RX

* The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40, therefore investigated worst case to representative mode in test report.

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

FOR 5250 ~ 5350MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290MHz	--	--

FOR 5470 ~ 5725MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	104	5520 MHz
108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz
124	5620 MHz	128	5640 MHz
132	5660 MHz	136	5680 MHz
140	5700 MHz	--	--

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5590 MHz		

2 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	122	5610MHz

FOR 5725 ~ 5850MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745MHz	153	5765MHz
157	5785MHz	161	5805MHz
165	5825MHz	--	--

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775MHz	--	--

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE $\geq$ 1G	RE<1G	PLC	APCM	
A	√	√	√	√	Powered by Adapter with Wi-Fi(5G) Function

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.

NOTE: "-" means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

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

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250	36 to 48	36, 40, 48	OFDM	BPSK	6.0
	802.11n(HT20)		36 to 48	36, 40, 48	OFDM	BPSK	MCS0
	802.11n(HT40)		38 to 46	38, 46	OFDM	BPSK	MCS0
	802.11ac(VHT80)		42	42	OFDM	BPSK	MCS0
	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n(HT20)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
	802.11n(HT40)		54 to 62	54, 62	OFDM	BPSK	MCS0
	802.11ac(VHT80)		58	58	OFDM	BPSK	MCS0
	802.11a	5470-5725	100 to 140	100, 112, 140	OFDM	BPSK	6.0
	802.11n(HT20)		100 to 140	100, 112, 140	OFDM	BPSK	MCS0
	802.11n(HT40)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11ac(VHT80)		106, 122	106, 122	OFDM	BPSK	MCS0
	802.11a	5725-5850	149 to 165	149, 157, 165	OFDM	BPSK	6.0
	802.11n(HT20)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
	802.11n(HT40)		151 to 159	151, 159	OFDM	BPSK	MCS0
	802.11ac(VHT80)		155	155	OFDM	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.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250 5470-5725 5725-5850	36 to 48 100 to 140 149 to 165	36	OFDM	BPSK	6.0

For the test results, only the worst case was shown in test report.

POWER LINE CONDUCTED EMISSION TEST:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250 5470-5725 5725-5850	36 to 48 100 to 140 149 to 165	36	OFDM	BPSK	6.0

ANTENNA PORT CONDUCTED MEASUREMENT:

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

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5250	36 to 48	36, 40, 48	OFDM	BPSK	6.0
	802.11n(HT20)		36 to 48	36, 40, 48	OFDM	BPSK	MCS0
	802.11n(HT40)		38 to 46	38, 46	OFDM	BPSK	MCS0
	802.11ac(VHT80)		42	42	OFDM	BPSK	MCS0
	802.11a	5250-5350	52 to 64	52, 60, 64	OFDM	BPSK	6.0
	802.11n(HT20)		52 to 64	52, 60, 64	OFDM	BPSK	MCS0
	802.11n(HT40)		54 to 62	54, 62	OFDM	BPSK	MCS0
	802.11ac(VHT80)		58	58	OFDM	BPSK	MCS0
	802.11a	5470-5725	100 to 140	100, 112, 140	OFDM	BPSK	6.0
	802.11n(HT20)		100 to 140	100, 112, 140	OFDM	BPSK	MCS0
	802.11n(HT40)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11ac(VHT80)		106, 122	106, 122	OFDM	BPSK	MCS0
	802.11a	5725-5850	149 to 165	149, 157, 165	OFDM	BPSK	6.0
	802.11n(HT20)		149 to 165	149, 157, 165	OFDM	BPSK	MCS0
	802.11n(HT40)		151 to 159	151, 159	OFDM	BPSK	MCS0
	802.11ac(VHT80)		155	155	OFDM	BPSK	MCS0

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER(ADAPTER)	TESTED BY
RE<1G	24deg. C, 55%RH	DC 5V by Adapter	Jelly
RE≥1G	24deg. C, 55%RH	DC 5V by Adapter	Jelly
PLC	20deg. C, 56%RH	DC 5V by Adapter	Alex
APCM	20deg. C, 55%RH	DC 5V by Adapter	Vincent

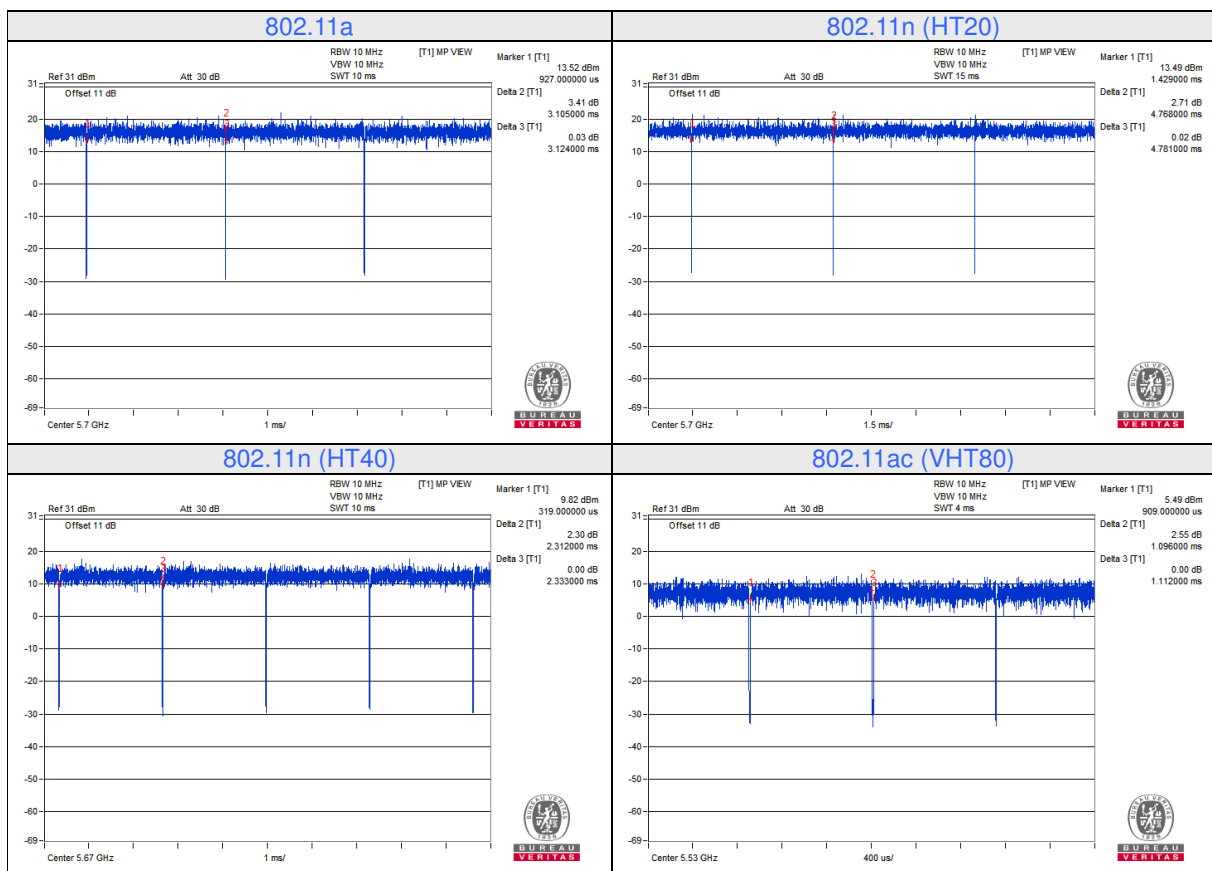


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2.3 DUTY CYCLE OF TEST SIGNAL

MODE	ON Time (ms)	ON+OFF Time (ms)	Duty cycle	Duty factor
802.11a	3.105	3.124	0.994	0
802.11n (HT20)	4.768	4.781	0.997	0
802.11n (HT40)	2.312	2.333	0.991	0
802.11ac (VHT80)	1.096	1.112	0.986	0



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2.4 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Adapter	HUAWEI	HW-100225E00	N/A	N/A

NO.	DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	USB Cable: Shielded, detachable, 6m

2.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specification of the EUT declared by the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v02r01

ANSI C63.10-2013

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

3. TEST TYPES AND RESULTS

3.1 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.1.1 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

NOTES:

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 30dB under any condition of modulation.

3.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

APPLICABLE TO	LIMIT	
789033 D02 General UNII Test Procedures New Rules v02r01	FIELD STRENGTH AT 3m	
	PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
APPLICABLE TO	EIRP LIMIT	EQUIVALENT FIELD STRENGTH AT 3m
15.407(b)(1)	PK: -27 (dBm/MHz)	PK: 68.2 (dBμV/m)
15.407(b)(2)		
15.407(b)(3)		
15.407(b)(4)	Note	Note

NOTE: For transmitters operating in the 5.725-5.85 GHz band:

Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the alternative limit.

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Mar. 07, 22
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 09, 22
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 20, 22
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Mar. 13, 22
Bilog Antenna (20MHz -2GHz)	Teseq	CBL 6111D	30643	May 21, 22
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 21, 22
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 14, 22
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 22, 22
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	May 12, 22
Pre-Amplifier (18GHz-40GHz)	EMCI	EMC 184045	980102	Jan. 10, 23
Test Software	ADT	ADT_Radiated_V7.6.15.9.2	N/A	N/A

NOTES:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The horn antenna is used only for the measurement of emission frequency above 1GHz if tested.
3. The FCC Site Registration No. is 749762.

3.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters(above 1GHz) and 0.8 meters(below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTES:

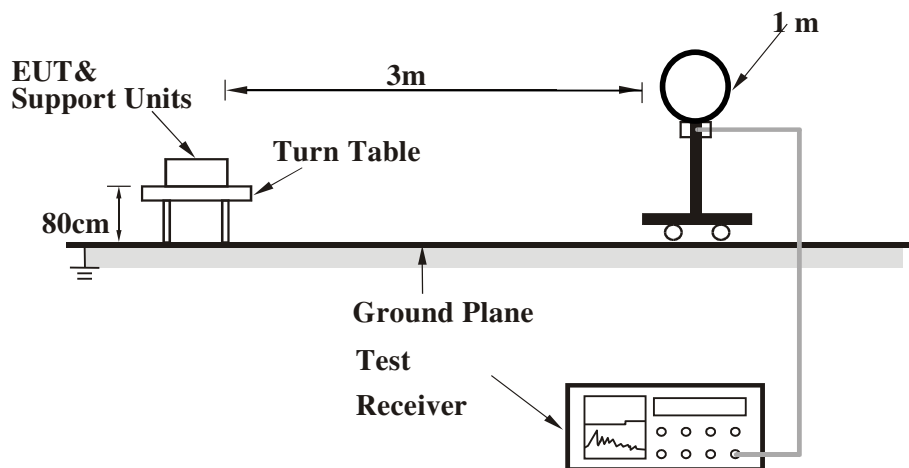
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz(Duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

3.1.5 DEVIATION FROM TEST STANDARD

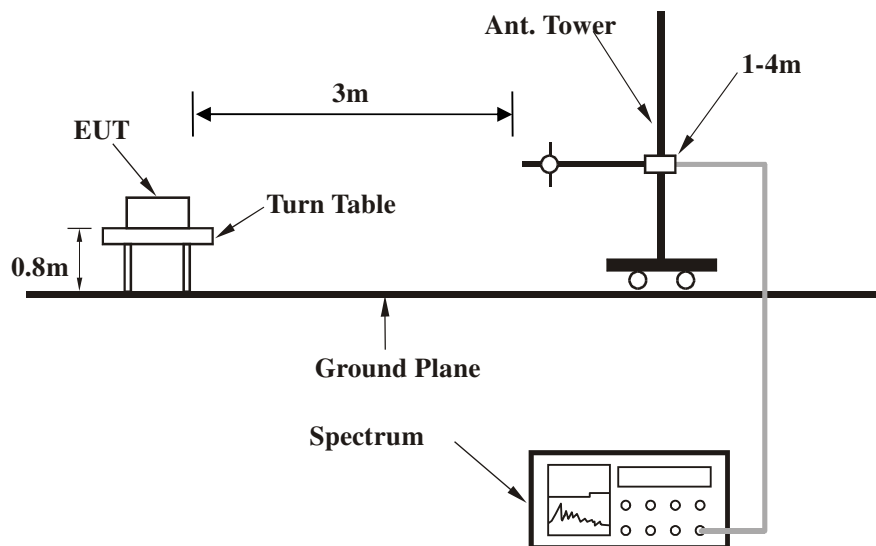
No deviation.

3.1.6 TEST SETUP

Below 30MHz test setup

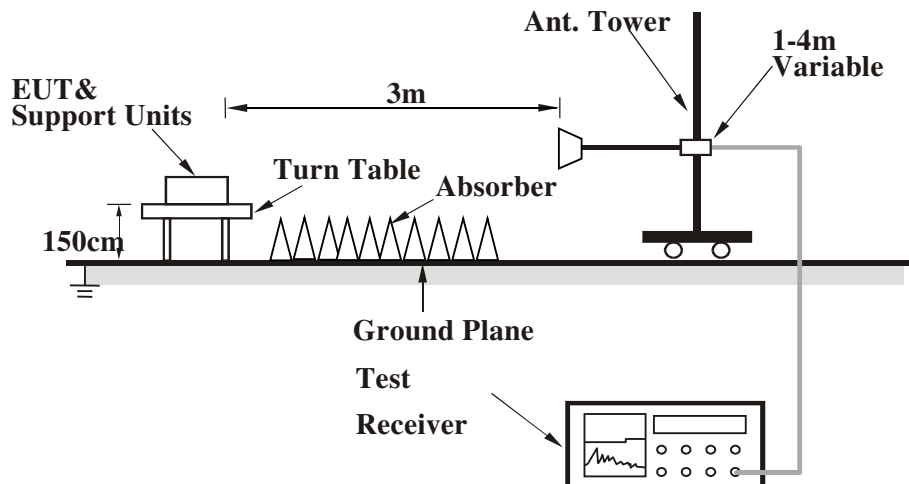


Below 1GHz test setup



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

Above 1GHz test setup



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

3.1.7 EUT OPERATING CONDITION

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.

3.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

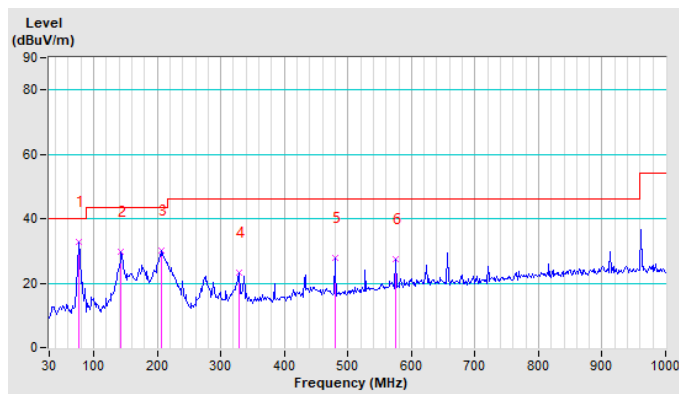
802.11a

CHANNEL	TX Channel 36	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	76.63	32.71 QP	40.00	-7.29	3.08 H	221	49.31	-16.60
2	143.48	29.64 QP	43.50	-13.86	2.20 H	234	43.47	-13.83
3	207.21	30.05 QP	43.50	-13.45	2.64 H	197	46.12	-16.07
4	328.46	23.36 QP	46.00	-22.64	2.07 H	245	35.29	-11.93
5	479.25	27.88 QP	46.00	-18.12	2.63 H	208	37.33	-9.45
6	575.62	27.30 QP	46.00	-18.70	2.12 H	262	34.53	-7.23

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.

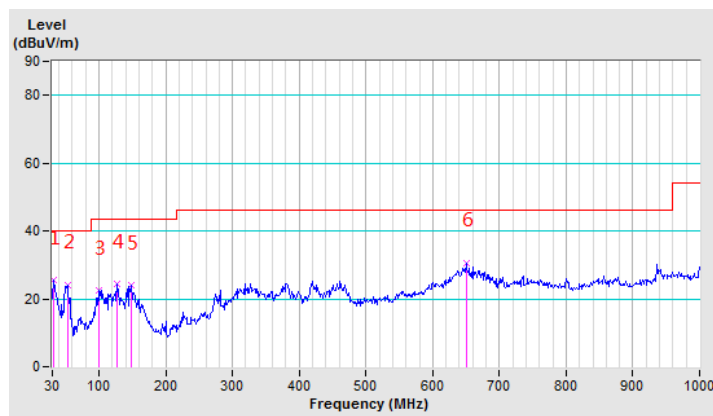


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	9KHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	76.63	34.06 QP	40.00	-5.94	1.78 V	82	50.66	-16.60
2	277.16	28.42 QP	46.00	-17.58	1.61 V	94	41.43	-13.01
3	328.46	30.64 QP	46.00	-15.36	2.18 V	71	42.57	-11.93
4	479.25	33.28 QP	46.00	-12.72	2.26 V	108	42.73	-9.45
5	527.44	29.86 QP	46.00	-16.14	1.69 V	118	38.36	-8.50
6	575.62	29.62 QP	46.00	-16.38	1.94 V	58	36.85	-7.23

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. 9KHz~30MHz have been test and test data more than 20dB margin.
5. Margin value = Emission level – Limit value.





**BUREAU
VERITAS**

Test Report No.: RF2112WDG3089-3

ABOVE 1GHz DATA

Band 1 (5150-5250MHz):

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.	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	5147.11	67.61 PK	74.00	-6.39	1.05 H	69	61.81	5.80
2	5147.11	45.28 AV	54.00	-8.72	1.05 H	69	39.48	5.80
3	5150.00	67.42 PK	74.00	-6.58	1.05 H	69	61.62	5.80
4	5150.00	46.50 AV	54.00	-7.50	1.05 H	69	40.70	5.80
5	*5180.00	106.33 PK			1.05 H	69	100.47	5.86
6	*5180.00	96.43 AV			1.05 H	69	90.57	5.86
7	#10360.00	56.28 PK	68.20	-11.92	2.00 H	157	42.88	13.40
8	15540.00	58.42 PK	74.00	-15.58	1.05 H	26	39.55	18.87
9	15540.00	49.36 AV	54.00	-4.64	1.05 H	26	30.49	18.87
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.84	70.81 PK	74.00	-3.19	1.00 V	206	65.01	5.80
2	5148.84	50.16 AV	54.00	-3.84	1.00 V	206	44.36	5.80
3	5150.00	70.36 PK	74.00	-3.64	1.00 V	206	64.56	5.80
4	5150.00	50.69 AV	54.00	-3.31	1.00 V	206	44.89	5.80
5	*5180.00	109.11 PK			1.00 V	206	103.25	5.86
6	*5180.00	98.09 AV			1.00 V	206	92.23	5.86
7	#10360.00	57.25 PK	68.20	-10.95	1.07 V	202	43.85	13.40
8	15540.00	59.60 PK	74.00	-14.40	1.33 V	29	40.73	18.87
9	15540.00	50.17 AV	54.00	-3.83	1.33 V	29	31.30	18.87

REMARKS:

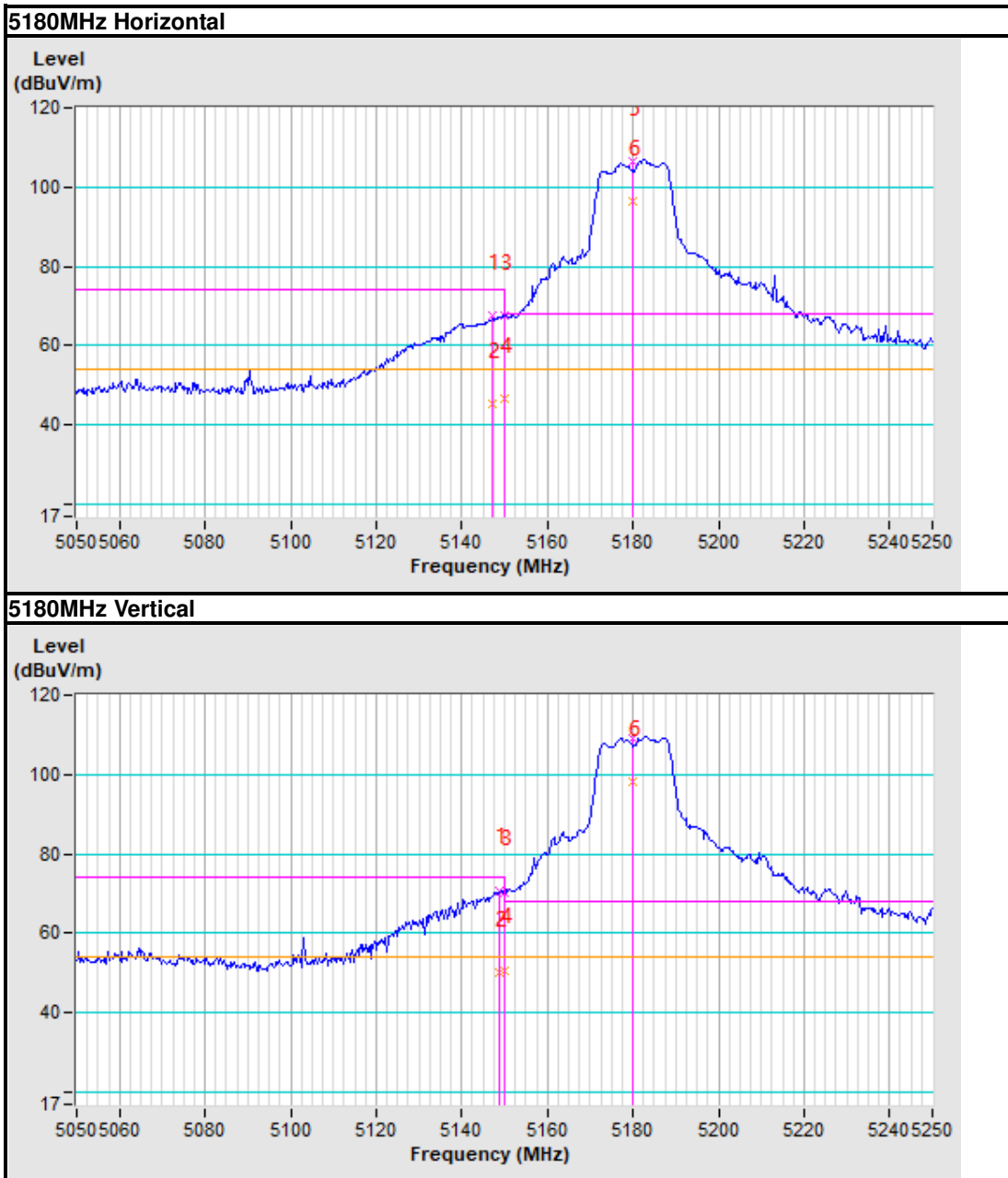
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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Band edge Plot



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

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	5143.21	59.37 PK	74.00	-14.63	1.54 H	306	53.58	5.79
2	5143.21	40.55 AV	54.00	-13.45	1.54 H	306	34.76	5.79
3	5150.00	60.14 PK	74.00	-13.86	1.54 H	306	54.34	5.80
4	5150.00	43.22 AV	54.00	-10.78	1.54 H	306	37.42	5.80
5	*5200.00	105.27 PK			1.54 H	306	99.38	5.89
6	*5200.00	95.18 AV			1.54 H	306	89.29	5.89
7	#10400.00	56.39 PK	68.20	-11.81	1.05 H	215	42.88	13.51
8	15600.00	56.14 PK	74.00	-17.86	1.00 H	158	37.18	18.96
9	15600.00	47.21 AV	54.00	-6.79	1.00 H	158	28.25	18.96
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.80	62.20 PK	74.00	-11.80	1.03 V	203	56.41	5.79
2	5145.80	41.58 AV	54.00	-12.42	1.03 V	203	35.79	5.79
3	5150.00	63.42 PK	74.00	-10.58	1.03 V	203	57.62	5.80
4	5150.00	45.86 AV	54.00	-8.14	1.03 V	203	40.06	5.80
5	*5200.00	109.94 PK			1.03 V	203	104.05	5.89
6	*5200.00	100.68 AV			1.03 V	203	94.79	5.89
7	#10400.00	58.27 PK	68.20	-9.93	1.18 V	122	44.76	13.51
8	15600.00	58.52 PK	74.00	-15.48	1.00 V	207	39.56	18.96
9	15600.00	49.25 AV	54.00	-4.75	1.00 V	207	30.29	18.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
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.	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	5141.26	53.19 PK	74.00	-20.81	1.46 H	299	47.40	5.79
2	5141.26	40.86 AV	54.00	-13.14	1.46 H	299	35.07	5.79
3	5150.00	51.25 PK	74.00	-22.75	1.46 H	299	45.45	5.80
4	5150.00	39.86 AV	54.00	-14.14	1.46 H	299	34.06	5.80
5	*5240.00	106.29 PK			1.46 H	299	100.32	5.97
6	*5240.00	96.87 AV			1.46 H	299	90.90	5.97
7	5350.00	52.19 PK	74.00	-21.81	1.46 H	299	46.02	6.17
8	5350.00	40.71 AV	54.00	-13.29	1.46 H	299	34.54	6.17
9	5358.19	54.16 PK	74.00	-19.84	1.46 H	299	47.98	6.18
10	5358.19	40.18 AV	54.00	-13.82	1.46 H	299	34.00	6.18
11	#10480.00	59.35 PK	68.20	-8.85	1.05 H	318	45.60	13.75
12	15720.00	57.34 PK	74.00	-16.66	1.50 H	36	38.19	19.15
13	15720.00	46.59 AV	54.00	-7.41	1.50 H	36	27.44	19.15
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5137.50	54.40 PK	74.00	-19.60	1.00 V	202	48.61	5.79
2	5137.50	42.04 AV	54.00	-11.96	1.00 V	202	36.25	5.79
3	5150.00	53.35 PK	74.00	-20.65	1.00 V	202	47.55	5.80
4	5150.00	41.82 AV	54.00	-12.18	1.00 V	202	36.02	5.80
5	*5240.00	110.42 PK			1.00 V	202	104.45	5.97
6	*5240.00	102.35 AV			1.00 V	202	96.38	5.97
7	5350.00	54.40 PK	74.00	-19.60	1.00 V	202	48.23	6.17
8	5350.00	42.33 AV	54.00	-11.67	1.00 V	202	36.16	6.17
9	5361.10	56.40 PK	74.00	-17.60	1.00 V	202	50.22	6.18
10	5361.10	42.21 AV	54.00	-11.79	1.00 V	202	36.03	6.18
11	#10480.00	61.05 PK	68.20	-7.15	1.08 V	217	47.30	13.75
12	15720.00	59.12 PK	74.00	-14.88	1.00 V	225	39.97	19.15
13	15720.00	48.11 AV	54.00	-5.89	1.00 V	225	28.96	19.15

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n(HT20)

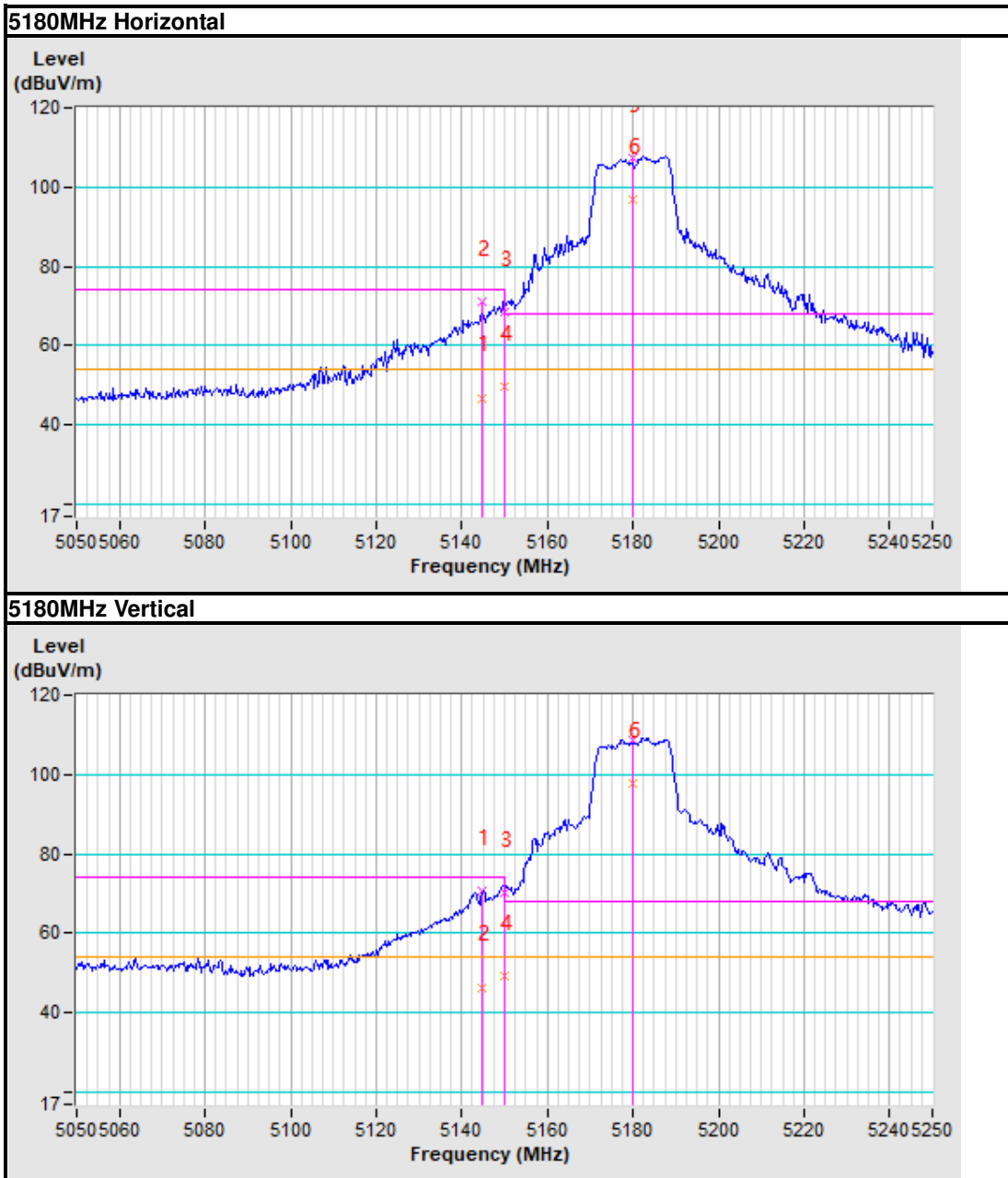
CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5144.79	70.92 PK	74.00	-3.08	1.00 H	65	65.13	5.79
2	5144.79	46.82 AV	54.00	-7.18	1.00 H	65	41.03	5.79
3	5150.00	68.34 PK	74.00	-5.66	1.00 H	65	62.54	5.80
4	5150.00	49.74 AV	54.00	-4.26	1.00 H	65	43.94	5.80
5	*5180.00	107.33 PK			1.00 H	65	101.47	5.86
6	*5180.00	96.87 AV			1.00 H	65	91.01	5.86
7	#10360.00	60.34 PK	68.20	-7.86	1.49 H	315	46.94	13.40
8	15540.00	56.05 PK	74.00	-17.95	1.00 H	204	37.18	18.87
9	15540.00	49.37 AV	54.00	-4.63	1.00 H	204	30.50	18.87
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5144.79	70.69 PK	74.00	-3.31	1.00 V	201	64.90	5.79
2	5144.79	46.29 AV	54.00	-7.71	1.00 V	201	40.50	5.79
3	5150.00	70.25 PK	74.00	-3.75	1.00 V	201	64.45	5.80
4	5150.00	49.15 AV	54.00	-4.85	1.00 V	201	43.35	5.80
5	*5180.00	108.73 PK			1.00 V	201	102.87	5.86
6	*5180.00	97.73 AV			1.00 V	201	91.87	5.86
7	#10360.00	62.68 PK	68.20	-5.52	1.35 V	218	49.28	13.40
8	15540.00	58.61 PK	74.00	-15.39	1.93 V	113	39.74	18.87
9	15540.00	50.22 AV	54.00	-3.78	1.93 V	113	31.35	18.87

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



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

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	5143.28	58.21 PK	74.00	-15.79	1.13 H	258	52.42	5.79
2	5143.28	33.96 AV	54.00	-20.04	1.13 H	258	28.17	5.79
3	5150.00	60.15 PK	74.00	-13.85	1.13 H	258	54.35	5.80
4	5150.00	40.23 AV	54.00	-13.77	1.13 H	258	34.43	5.80
5	*5200.00	105.71 PK			1.13 H	258	99.82	5.89
6	*5200.00	96.28 AV			1.13 H	258	90.39	5.89
7	#10400.00	57.36 PK	68.20	-10.84	1.58 H	211	43.85	13.51
8	15600.00	58.05 PK	74.00	-15.95	2.00 H	29	39.09	18.96
9	15600.00	48.71 AV	54.00	-5.29	2.00 H	29	29.75	18.96
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.70	60.94 PK	74.00	-13.06	1.00 V	46	55.15	5.79
2	5145.70	35.94 AV	54.00	-18.06	1.00 V	46	30.15	5.79
3	5150.00	62.47 PK	74.00	-11.53	1.00 V	46	56.67	5.80
4	5150.00	42.68 AV	54.00	-11.32	1.00 V	46	36.88	5.80
5	*5200.00	110.09 PK			1.00 V	46	104.20	5.89
6	*5200.00	98.43 AV			1.00 V	46	92.54	5.89
7	#10400.00	59.51 PK	68.20	-8.69	1.71 V	241	46.00	13.51
8	15600.00	59.74 PK	74.00	-14.26	1.00 V	215	40.78	18.96
9	15600.00	50.26 AV	54.00	-3.74	1.00 V	215	31.30	18.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
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.	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	5134.26	54.25 PK	74.00	-19.75	1.25 H	36	48.48	5.77
2	5134.26	41.27 AV	54.00	-12.73	1.25 H	36	35.50	5.77
3	5150.00	52.31 PK	74.00	-21.69	1.25 H	36	46.51	5.80
4	5150.00	40.24 AV	54.00	-13.76	1.25 H	36	34.44	5.80
5	*5240.00	106.21 PK			1.25 H	36	100.24	5.97
6	*5240.00	96.34 AV			1.25 H	36	90.37	5.97
7	5350.00	54.25 PK	74.00	-19.75	1.25 H	36	48.08	6.17
8	5350.00	41.25 AV	54.00	-12.75	1.25 H	36	35.08	6.17
9	5361.28	56.31 PK	74.00	-17.69	1.25 H	36	50.13	6.18
10	5361.28	42.35 AV	54.00	-11.65	1.25 H	36	36.17	6.18
11	#10480.00	60.37 PK	68.20	-7.83	1.03 H	29	46.62	13.75
12	15720.00	59.35 PK	74.00	-14.65	2.00 H	36	40.20	19.15
13	15720.00	48.25 AV	54.00	-5.75	2.00 H	36	29.10	19.15
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5143.25	55.71 PK	74.00	-18.29	1.33 V	56	49.92	5.79
2	5143.25	44.19 AV	54.00	-9.81	1.33 V	56	38.40	5.79
3	5150.00	54.29 PK	74.00	-19.71	1.33 V	56	48.49	5.80
4	5150.00	42.33 AV	54.00	-11.67	1.33 V	56	36.53	5.80
5	*5240.00	109.35 PK			1.33 V	56	103.38	5.97
6	*5240.00	101.24 AV			1.33 V	56	95.27	5.97
7	5350.00	55.21 PK	74.00	-18.79	1.33 V	56	49.04	6.17
8	5350.00	43.64 AV	54.00	-10.36	1.33 V	56	37.47	6.17
9	5371.24	57.29 PK	74.00	-16.71	1.33 V	56	51.08	6.21
10	5371.24	43.55 AV	54.00	-10.45	1.33 V	56	37.34	6.21
11	#10480.00	62.11 PK	68.20	-6.09	1.83 V	241	48.36	13.75
12	15720.00	60.24 PK	74.00	-13.76	1.25 V	208	41.09	19.15
13	15720.00	50.13 AV	54.00	-3.87	1.25 V	208	30.98	19.15

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11n(HT40)

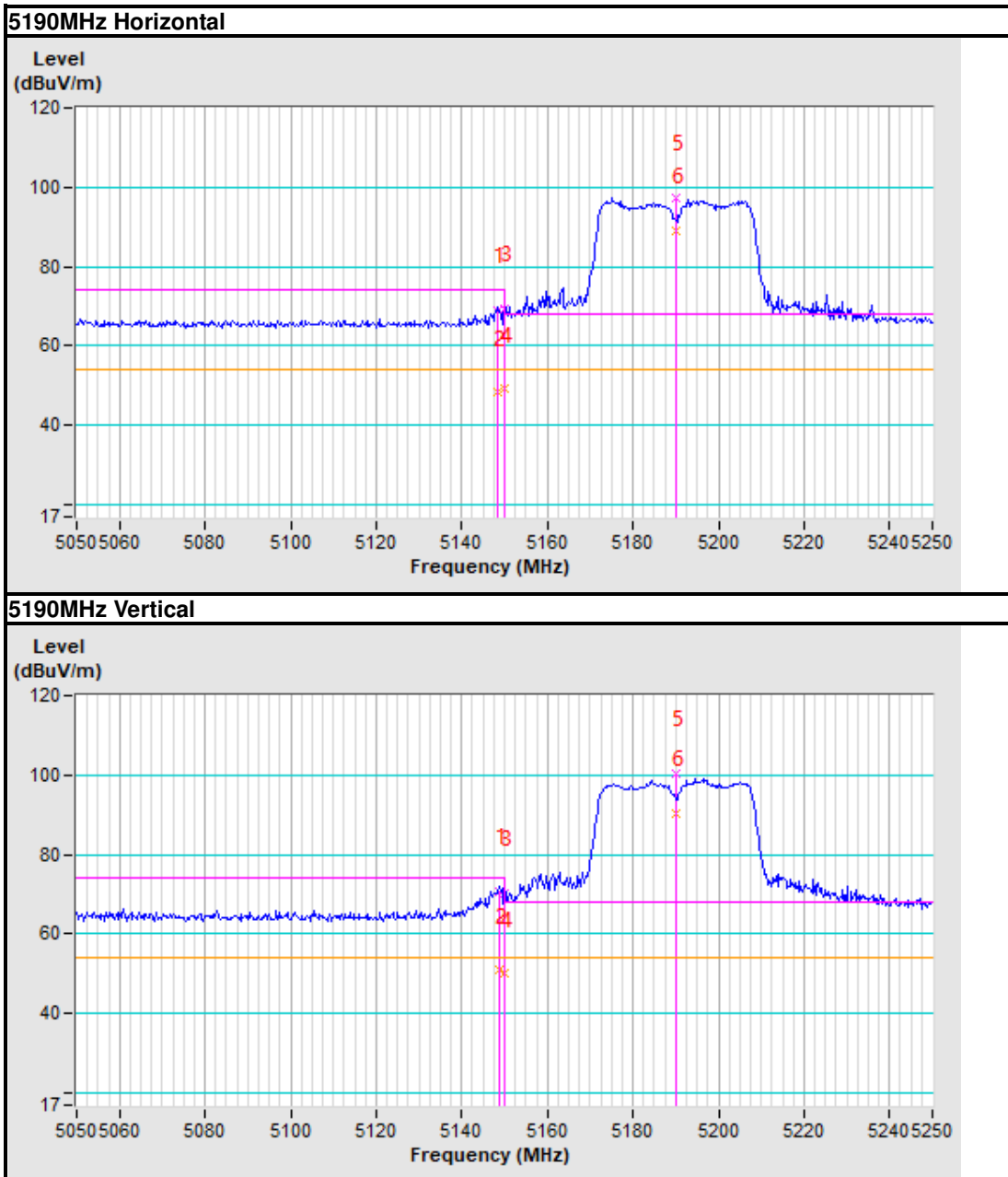
CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5148.55	68.97 PK	74.00	-5.03	1.34 H	255	63.17	5.80
2	5148.55	48.26 AV	54.00	-5.74	1.34 H	255	42.46	5.80
3	5150.00	69.43 PK	74.00	-4.57	1.34 H	255	63.63	5.80
4	5150.00	49.26 AV	54.00	-4.74	1.34 H	255	43.46	5.80
5	*5190.00	97.44 PK			1.34 H	255	91.56	5.88
6	*5190.00	89.21 AV			1.34 H	255	83.33	5.88
7	#10380.00	58.72 PK	68.20	-9.48	1.56 H	320	45.26	13.46
8	15570.00	57.14 PK	74.00	-16.86	1.05 H	208	38.22	18.92
9	15570.00	46.89 AV	54.00	-7.11	1.05 H	208	27.97	18.92
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5148.84	70.86 PK	74.00	-3.14	1.00 V	64	65.06	5.80
2	5148.84	50.91 AV	54.00	-3.09	1.00 V	64	45.11	5.80
3	5150.00	70.35 PK	74.00	-3.65	1.00 V	64	64.55	5.80
4	5150.00	50.15 AV	54.00	-3.85	1.00 V	64	44.35	5.80
5	*5190.00	100.49 PK			1.00 V	64	94.61	5.88
6	*5190.00	90.35 AV			1.00 V	64	84.47	5.88
7	#10380.00	59.84 PK	68.20	-8.36	1.36 V	281	46.38	13.46
8	15570.00	58.12 PK	74.00	-15.88	1.05 V	311	39.20	18.92
9	15570.00	48.25 AV	54.00	-5.75	1.05 V	311	29.33	18.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



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

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	5143.80	64.35 PK	74.00	-9.65	1.91 H	205	58.56	5.79
2	5143.80	48.97 AV	54.00	-5.03	1.91 H	205	43.18	5.79
3	5150.00	62.71 PK	74.00	-11.29	1.91 H	205	56.91	5.80
4	5150.00	49.36 AV	54.00	-4.64	1.91 H	205	43.56	5.80
5	*5230.00	98.26 PK			1.91 H	205	92.31	5.95
6	*5230.00	88.41 AV			1.91 H	205	82.46	5.95
7	#10460.00	58.28 PK	68.20	-9.92	1.00 H	47	44.60	13.68
8	15690.00	58.43 PK	74.00	-15.57	1.42 H	183	39.33	19.10
9	15690.00	49.36 AV	54.00	-4.64	1.42 H	183	30.26	19.10
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5136.50	66.35 PK	74.00	-7.65	1.05 V	50	60.58	5.77
2	5136.50	50.61 AV	54.00	-3.39	1.05 V	50	44.84	5.77
3	5150.00	64.50 PK	74.00	-9.50	1.05 V	50	58.70	5.80
4	5150.00	51.00 AV	54.00	-3.00	1.05 V	50	45.20	5.80
5	*5230.00	100.08 PK			1.05 V	50	94.13	5.95
6	*5230.00	90.01 AV			1.05 V	50	84.06	5.95
7	#10460.00	59.71 PK	68.20	-8.49	1.53 V	271	46.03	13.68
8	15690.00	60.71 PK	74.00	-13.29	1.00 V	339	41.61	19.10
9	15690.00	50.25 AV	54.00	-3.75	1.00 V	339	31.15	19.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ac (80MHz)

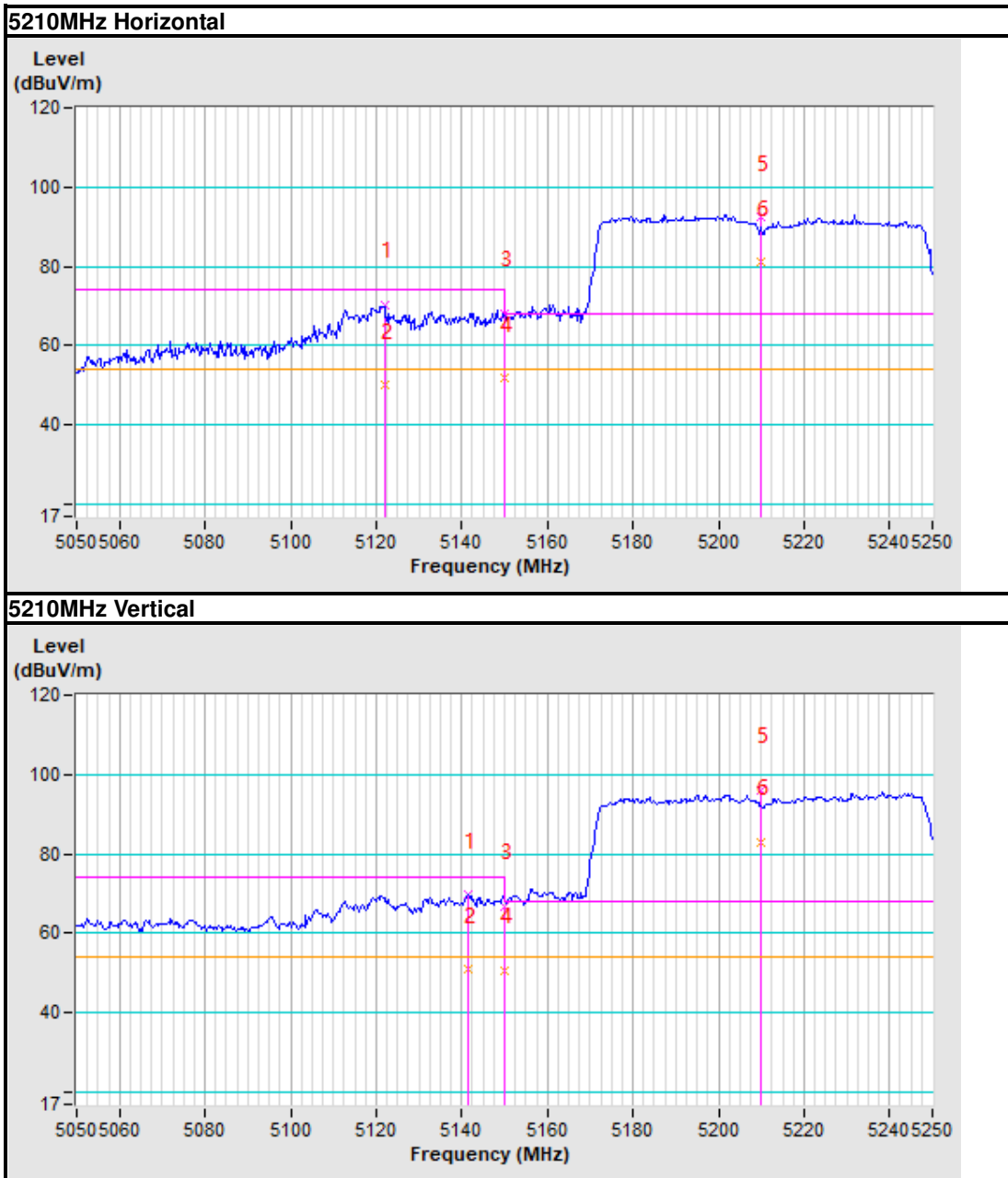
CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	5121.90	70.33 PK	74.00	-3.67	1.55 H	65	64.57	5.76
2	5121.90	50.13 AV	54.00	-3.87	1.55 H	65	44.37	5.76
3	5150.00	68.25 PK	74.00	-5.75	1.53 H	65	62.45	5.80
4	5150.00	51.72 AV	54.00	-2.28	1.53 H	65	45.92	5.80
5	*5210.00	92.52 PK			1.53 H	65	86.61	5.91
6	*5210.00	81.03 AV			1.53 H	65	75.12	5.91
7	#10420.00	57.21 PK	68.20	-10.99	1.56 H	33	43.63	13.58
8	15630.00	59.37 PK	74.00	-14.63	1.44 H	308	40.36	19.01
9	15630.00	48.92 AV	54.00	-5.08	1.44 H	308	29.91	19.01
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5141.32	69.62 PK	74.00	-4.38	1.00 V	190	63.83	5.79
2	5141.32	50.93 AV	54.00	-3.07	1.00 V	190	45.14	5.79
3	5150.00	66.89 PK	74.00	-7.11	1.00 V	190	61.09	5.80
4	5150.00	50.65 AV	54.00	-3.35	1.00 V	190	44.85	5.80
5	*5210.00	96.11 PK			1.00 V	190	90.20	5.91
6	*5210.00	83.03 AV			1.00 V	190	77.12	5.91
7	#10420.00	58.69 PK	68.20	-9.51	1.04 V	136	45.11	13.58
8	15630.00	61.71 PK	74.00	-12.29	1.00 V	257	42.70	19.01
9	15630.00	50.26 AV	54.00	-3.74	1.00 V	257	31.25	19.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

Band edge Plot





**BUREAU
VERITAS**

Test Report No.: RF2112WDG3089-3

Band 2 (5250-5350MHz): 802.11a

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

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	5123.44	48.16 PK	74.00	-25.84	1.00 H	39	42.40	5.76
2	5123.44	33.47 AV	54.00	-20.53	1.00 H	39	27.71	5.76
3	5150.00	46.35 PK	74.00	-27.65	1.00 H	39	40.55	5.80
4	5150.00	32.05 AV	54.00	-21.95	1.00 H	39	26.25	5.80
5	*5260.00	100.34 PK			1.00 H	39	94.34	6.00
6	*5260.00	90.15 AV			1.00 H	39	84.15	6.00
7	5350.00	47.25 PK	74.00	-26.75	1.00 H	39	41.08	6.17
8	5350.00	33.16 AV	54.00	-20.84	1.00 H	39	26.99	6.17
9	5371.20	47.92 PK	74.00	-26.08	1.00 H	39	41.71	6.21
10	5371.20	32.44 AV	54.00	-21.56	1.00 H	39	26.23	6.21
11	#10520.00	57.43 PK	68.20	-10.77	1.55 H	304	43.61	13.82
12	15780.00	59.21 PK	74.00	-14.79	1.35 H	214	39.98	19.23
13	15780.00	47.34 AV	54.00	-6.66	1.35 H	214	28.11	19.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5101.90	49.54 PK	74.00	-24.46	1.55 V	187	43.83	5.71
2	5101.90	34.21 AV	54.00	-19.79	1.55 V	187	28.50	5.71
3	5150.00	47.24 PK	74.00	-26.76	1.55 V	187	41.44	5.80
4	5150.00	33.64 AV	54.00	-20.36	1.55 V	187	27.84	5.80
5	*5260.00	103.16 PK			1.55 V	187	97.16	6.00
6	*5260.00	92.28 AV			1.55 V	187	86.28	6.00
7	5350.00	48.74 PK	74.00	-25.26	1.55 V	187	42.57	6.17
8	5350.00	34.52 AV	54.00	-19.48	1.55 V	187	28.35	6.17
9	5356.90	49.35 PK	74.00	-24.65	1.55 V	187	43.17	6.18
10	5356.90	33.27 AV	54.00	-20.73	1.55 V	187	27.09	6.18
11	#10520.00	58.35 PK	68.20	-9.85	1.37 V	208	44.53	13.82
12	15780.00	60.35 PK	74.00	-13.65	2.00 V	143	41.12	19.23
13	15780.00	48.47 AV	54.00	-5.53	2.00 V	143	29.24	19.23

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	99.89 PK			1.27 H	108	93.81	6.08
2	*5300.00	90.21 AV			1.27 H	108	84.13	6.08
3	5350.00	61.57 PK	74.00	-12.43	1.27 H	108	55.40	6.17
4	5350.00	39.68 AV	54.00	-14.32	1.27 H	108	33.51	6.17
5	5362.11	60.28 PK	74.00	-13.72	1.27 H	108	54.10	6.18
6	5362.11	39.48 AV	54.00	-14.52	1.27 H	108	33.30	6.18
7	10600.00	56.29 PK	74.00	-17.71	1.00 H	14	42.38	13.91
8	10600.00	45.34 AV	54.00	-8.66	1.00 H	14	31.43	13.91
9	15900.00	58.71 PK	74.00	-15.29	1.66 H	48	39.29	19.42
10	15900.00	47.22 AV	54.00	-6.78	1.66 H	48	27.80	19.42
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	103.37 PK			1.08 V	194	97.29	6.08
2	*5300.00	92.70 AV			1.08 V	194	86.62	6.08
3	5350.00	63.54 PK	74.00	-10.46	1.08 V	194	57.37	6.17
4	5350.00	41.49 AV	54.00	-12.51	1.08 V	194	35.32	6.17
5	5354.30	61.20 PK	74.00	-12.80	1.08 V	194	55.02	6.18
6	5354.30	40.16 AV	54.00	-13.84	1.08 V	194	33.98	6.18
7	10600.00	58.36 PK	74.00	-15.64	1.04 V	211	44.45	13.91
8	10600.00	47.29 AV	54.00	-6.71	1.04 V	211	33.38	13.91
9	15900.00	60.21 PK	74.00	-13.79	1.00 V	285	40.79	19.42
10	15900.00	49.73 AV	54.00	-4.27	1.00 V	285	30.31	19.42

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

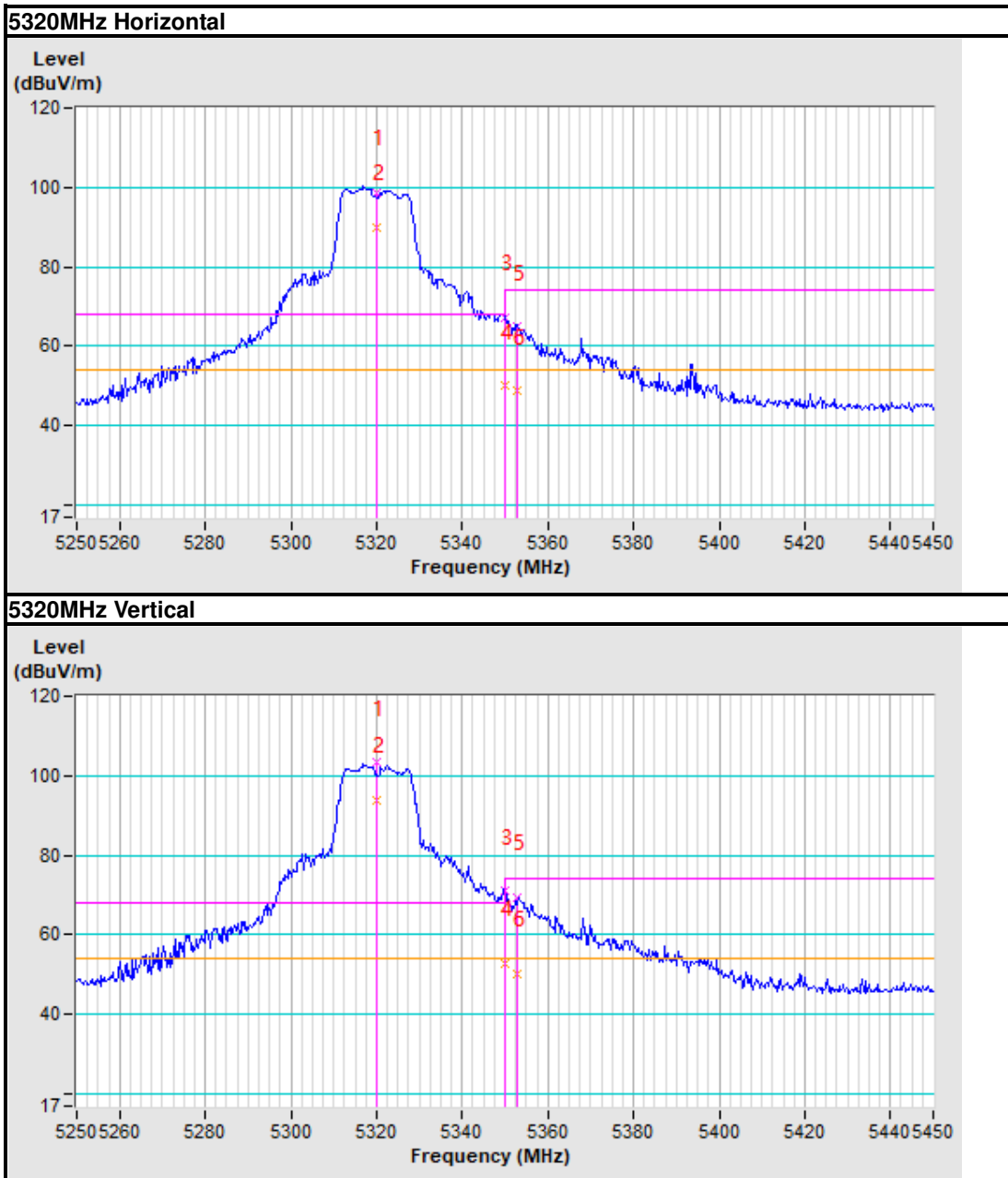
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	98.71 PK			1.39 H	74	92.60	6.11
2	*5320.00	90.06 AV			1.39 H	74	83.95	6.11
3	5350.00	67.33 PK	74.00	-6.67	1.39 H	74	61.16	6.17
4	5350.00	50.09 AV	54.00	-3.91	1.39 H	74	43.92	6.17
5	5352.89	64.93 PK	74.00	-9.07	1.39 H	74	58.76	6.17
6	5352.89	48.74 AV	54.00	-5.26	1.39 H	74	42.57	6.17
7	10640.00	59.36 PK	74.00	-14.64	1.51 H	68	45.41	13.95
8	10640.00	47.25 AV	54.00	-6.75	1.51 H	68	33.30	13.95
9	15960.00	58.71 PK	74.00	-15.29	1.00 H	319	39.20	19.51
10	15960.00	48.58 AV	54.00	-5.42	1.00 H	319	29.07	19.51
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	103.24 PK			1.08 V	46	97.13	6.11
2	*5320.00	93.99 AV			1.08 V	46	87.88	6.11
3	5350.00	70.94 PK	74.00	-3.06	1.08 V	46	64.77	6.17
4	5350.00	52.94 AV	54.00	-1.06	1.08 V	46	46.77	6.17
5	5352.89	69.58 PK	74.00	-4.42	1.08 V	46	63.41	6.17
6	5352.89	50.24 AV	54.00	-3.76	1.08 V	46	44.07	6.17
7	10640.00	60.71 PK	74.00	-13.29	1.21 V	311	46.76	13.95
8	10640.00	48.57 AV	54.00	-5.43	1.21 V	311	34.62	13.95
9	15960.00	59.49 PK	74.00	-14.51	1.02 V	48	39.98	19.51
10	15960.00	49.54 AV	54.00	-4.46	1.02 V	48	30.03	19.51

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

Band edge Plot





**BUREAU
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Test Report No.: RF2112WDG3089-3

802.11n(HT20)

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

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	5118.57	49.23 PK	74.00	-24.77	2.00 H	49	43.49	5.74
2	5118.57	36.55 AV	54.00	-17.45	2.00 H	49	30.81	5.74
3	5150.00	45.23 PK	74.00	-28.77	2.00 H	49	39.43	5.80
4	5150.00	35.41 AV	54.00	-18.59	2.00 H	49	29.61	5.80
5	*5260.00	100.25 PK			2.00 H	49	94.25	6.00
6	*5260.00	92.05 AV			2.00 H	49	86.05	6.00
7	5350.00	49.31 PK	74.00	-24.69	2.00 H	49	43.14	6.17
8	5350.00	35.71 AV	54.00	-18.29	2.00 H	49	29.54	6.17
9	5359.16	50.33 PK	74.00	-23.67	2.00 H	49	44.15	6.18
10	5359.16	36.90 AV	54.00	-17.10	2.00 H	49	30.72	6.18
11	#10520.00	56.34 PK	68.20	-11.86	1.29 H	305	42.52	13.82
12	15780.00	59.82 PK	74.00	-14.18	1.00 H	127	40.59	19.23
13	15780.00	47.05 AV	54.00	-6.95	1.00 H	127	27.82	19.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5122.20	50.53 PK	74.00	-23.47	1.08 V	202	44.77	5.76
2	5122.20	37.14 AV	54.00	-16.86	1.08 V	202	31.38	5.76
3	5150.00	46.08 PK	74.00	-27.92	1.08 V	202	40.28	5.80
4	5150.00	36.02 AV	54.00	-17.98	1.08 V	202	30.22	5.80
5	*5260.00	102.11 PK			1.08 V	202	96.11	6.00
6	*5260.00	94.24 AV			1.08 V	202	88.24	6.00
7	5350.00	50.26 PK	74.00	-23.74	1.08 V	202	44.09	6.17
8	5350.00	37.22 AV	54.00	-16.78	1.08 V	202	31.05	6.17
9	5355.60	51.84 PK	74.00	-22.16	1.08 V	202	45.66	6.18
10	5355.60	38.21 AV	54.00	-15.79	1.08 V	202	32.03	6.18
11	#10520.00	58.41 PK	68.20	-9.79	1.54 V	288	44.59	13.82
12	15780.00	61.23 PK	74.00	-12.77	1.00 V	53	42.00	19.23
13	15780.00	48.56 AV	54.00	-5.44	1.00 V	53	29.33	19.23

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	98.53 PK			1.00 H	253	92.45	6.08
2	*5300.00	89.44 AV			1.00 H	253	83.36	6.08
3	5350.00	57.34 PK	74.00	-16.66	1.00 H	253	51.17	6.17
4	5350.00	40.22 AV	54.00	-13.78	1.00 H	253	34.05	6.17
5	5362.71	58.44 PK	74.00	-15.56	1.00 H	253	52.25	6.19
6	5362.71	39.21 AV	54.00	-14.79	1.00 H	253	33.02	6.19
7	10600.00	58.24 PK	74.00	-15.76	1.44 H	293	44.33	13.91
8	10600.00	47.16 AV	54.00	-6.84	1.44 H	293	33.25	13.91
9	15900.00	58.31 PK	74.00	-15.69	2.00 H	315	38.89	19.42
10	15900.00	47.44 AV	54.00	-6.56	2.00 H	315	28.02	19.42
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	102.39 PK			1.94 V	58	96.31	6.08
2	*5300.00	92.63 AV			1.94 V	58	86.55	6.08
3	5350.00	58.90 PK	74.00	-15.10	1.94 V	58	52.73	6.17
4	5350.00	41.01 AV	54.00	-12.99	1.94 V	58	34.84	6.17
5	5351.74	59.39 PK	74.00	-14.61	1.94 V	58	53.22	6.17
6	5351.74	40.66 AV	54.00	-13.34	1.94 V	58	34.49	6.17
7	10600.00	59.31 PK	74.00	-14.69	1.53 V	25	45.40	13.91
8	10600.00	48.55 AV	54.00	-5.45	1.53 V	25	34.64	13.91
9	15900.00	60.38 PK	74.00	-13.62	1.00 V	309	40.96	19.42
10	15900.00	48.25 AV	54.00	-5.75	1.00 V	309	28.83	19.42

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

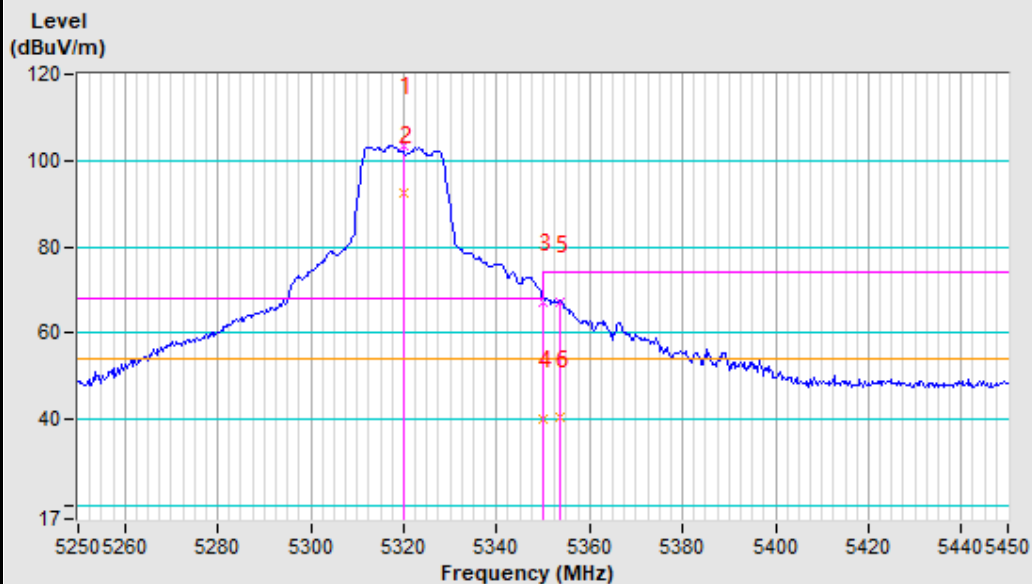
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	103.61 PK			1.14 H	60	97.50	6.11
2	*5320.00	92.30 AV			1.14 H	60	86.19	6.11
3	5350.00	67.23 PK	74.00	-6.77	1.14 H	60	61.06	6.17
4	5350.00	40.22 AV	54.00	-13.78	1.14 H	60	34.05	6.17
5	5353.47	67.18 PK	74.00	-6.82	1.14 H	60	61.01	6.17
6	5353.47	40.36 AV	54.00	-13.64	1.14 H	60	34.19	6.17
7	10640.00	55.79 PK	74.00	-18.21	1.92 H	308	41.84	13.95
8	10640.00	46.05 AV	54.00	-7.95	1.92 H	308	32.10	13.95
9	15960.00	58.25 PK	74.00	-15.75	1.00 H	207	38.74	19.51
10	15960.00	46.41 AV	54.00	-7.59	1.00 H	207	26.90	19.51
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	106.99 PK			1.09 V	199	100.88	6.11
2	*5320.00	96.31 AV			1.09 V	199	90.20	6.11
3	5350.00	72.26 PK	74.00	-1.74	1.09 V	199	66.09	6.17
4	5350.00	43.60 AV	54.00	-10.40	1.09 V	199	37.43	6.17
5	5353.18	71.74 PK	74.00	-2.26	1.09 V	199	65.57	6.17
6	5353.18	42.48 AV	54.00	-11.52	1.09 V	199	36.31	6.17
7	10640.00	57.88 PK	74.00	-16.12	1.00 V	192	43.93	13.95
8	10640.00	47.47 AV	54.00	-6.53	1.00 V	192	33.52	13.95
9	15960.00	59.39 PK	74.00	-14.61	1.32 V	52	39.88	19.51
10	15960.00	47.88 AV	54.00	-6.12	1.32 V	52	28.37	19.51

REMARKS:

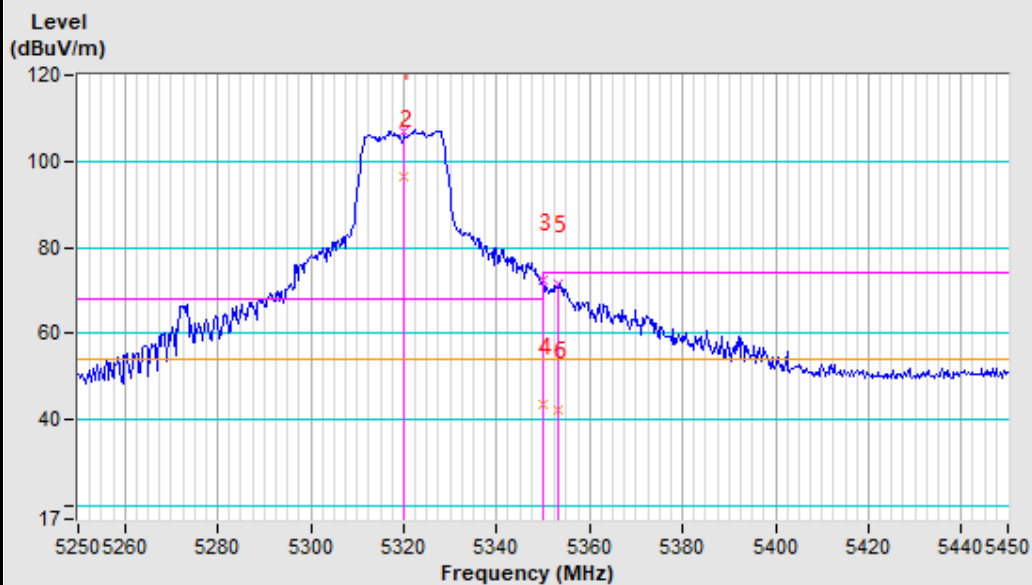
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

Band edge Plot

5320MHz Horizontal



5320MHz Vertical



802.11n(HT40)

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

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	*5270.00	102.52 PK			1.63 H	157	96.50	6.02
2	*5270.00	94.33 AV			1.63 H	157	88.31	6.02
3	5350.00	62.49 PK	74.00	-11.51	1.63 H	157	56.32	6.17
4	5350.00	44.36 AV	54.00	-9.64	1.63 H	157	38.19	6.17
5	5355.60	66.25 PK	74.00	-7.75	1.63 H	157	60.07	6.18
6	5355.60	45.84 AV	54.00	-8.16	1.63 H	157	39.66	6.18
7	#10540.00	59.32 PK	68.20	-8.88	1.05 H	33	45.48	13.84
8	15810.00	59.38 PK	74.00	-14.62	1.00 H	357	40.10	19.28
9	15810.00	48.22 AV	54.00	-5.78	1.00 H	357	28.94	19.28
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	106.05 PK			1.00 V	199	100.03	6.02
2	*5270.00	95.96 AV			1.00 V	199	89.94	6.02
3	5350.00	64.99 PK	74.00	-9.01	1.00 V	199	58.82	6.17
4	5350.00	45.58 AV	54.00	-8.42	1.00 V	199	39.41	6.17
5	5354.20	67.17 PK	74.00	-6.83	1.00 V	199	60.99	6.18
6	5354.20	48.36 AV	54.00	-5.64	1.00 V	199	42.18	6.18
7	#10540.00	60.35 PK	68.20	-7.85	1.35 V	48	46.51	13.84
8	15810.00	60.28 PK	74.00	-13.72	2.00 V	215	41.00	19.28
9	15810.00	49.63 AV	54.00	-4.37	2.00 V	215	30.35	19.28

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
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)

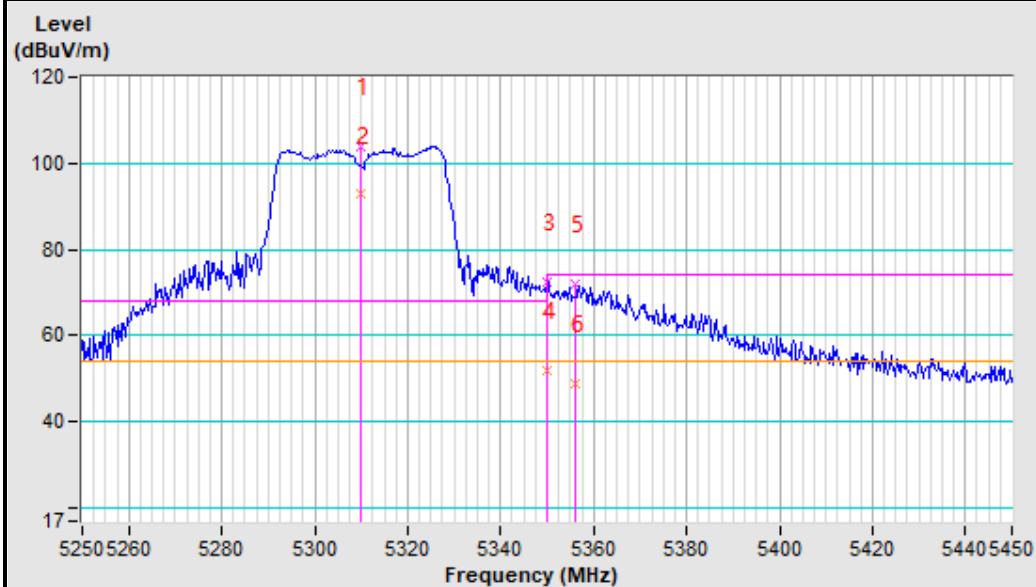
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	101.94 PK			1.71 H	354	95.85	6.09
2	*5310.00	90.27 AV			1.71 H	354	84.18	6.09
3	5350.00	67.45 PK	74.00	-6.55	1.71 H	354	61.28	6.17
4	5350.00	48.39 AV	54.00	-5.61	1.71 H	354	42.22	6.17
5	5356.66	67.11 PK	74.00	-6.89	1.71 H	354	60.93	6.18
6	5356.66	47.92 AV	54.00	-6.08	1.71 H	354	41.74	6.18
7	10620.00	57.43 PK	74.00	-16.57	1.56 H	37	43.50	13.93
8	10620.00	46.24 AV	54.00	-7.76	1.56 H	37	32.31	13.93
9	15930.00	58.71 PK	74.00	-15.29	1.50 H	30	39.25	19.46
10	15930.00	46.27 AV	54.00	-7.73	1.50 H	30	26.81	19.46
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.94 PK			1.05 V	205	97.85	6.09
2	*5310.00	92.94 AV			1.05 V	205	86.85	6.09
3	5350.00	72.58 PK	74.00	-1.42	1.05 V	205	66.41	6.17
4	5350.00	52.06 AV	54.00	-1.94	1.05 V	205	45.89	6.17
5	5356.08	72.14 PK	74.00	-1.86	1.05 V	205	65.96	6.18
6	5356.08	48.98 AV	54.00	-5.02	1.05 V	205	42.80	6.18
7	10620.00	58.12 PK	74.00	-15.88	1.01 V	210	44.19	13.93
8	10620.00	47.03 AV	54.00	-6.97	1.01 V	210	33.10	13.93
9	15930.00	59.15 PK	74.00	-14.85	1.00 V	314	39.69	19.46
10	15930.00	47.70 AV	54.00	-6.30	1.00 V	314	28.24	19.46

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.



5310MHz Horizontal



802.11ac 80MHz

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

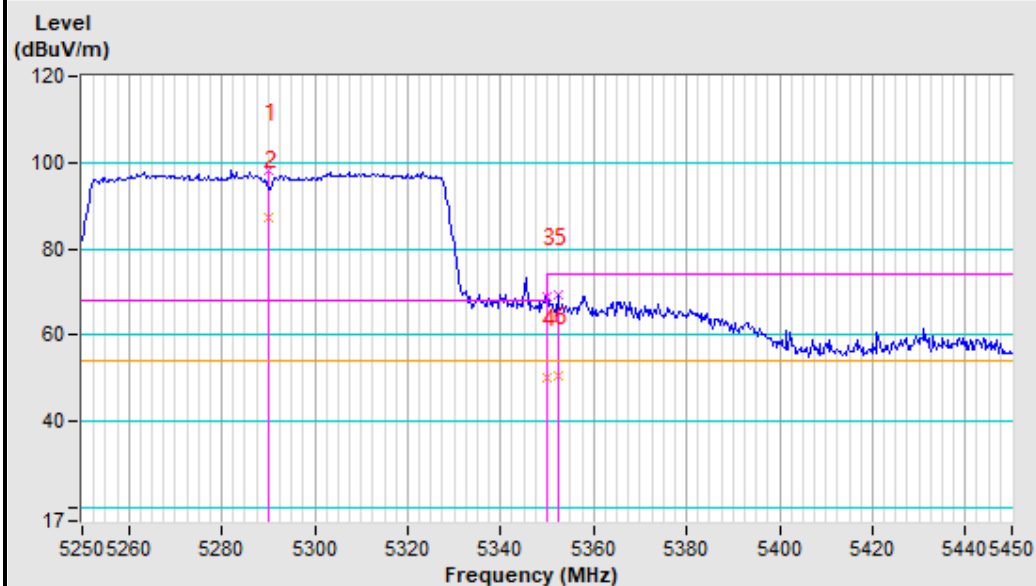
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	98.08 PK			1.05 H	358	92.02	6.06
2	*5290.00	87.14 AV			1.05 H	358	81.08	6.06
3	5350.00	69.12 PK	74.00	-4.88	1.05 H	358	62.95	6.17
4	5350.00	50.36 AV	54.00	-3.64	1.05 H	358	44.19	6.17
5	5352.30	69.17 PK	74.00	-4.83	1.05 H	358	63.00	6.17
6	5352.30	50.72 AV	54.00	-3.28	1.05 H	358	44.55	6.17
7	#10580.00	58.16 PK	68.20	-10.04	1.54 H	309	44.27	13.89
8	15870.00	58.29 PK	74.00	-15.71	1.06 H	33	38.92	19.37
9	15870.00	47.44 AV	54.00	-6.56	1.06 H	33	28.07	19.37
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	101.27 PK			1.00 V	200	95.21	6.06
2	*5290.00	88.86 AV			1.00 V	200	82.80	6.06
3	5350.00	71.92 PK	74.00	-2.08	1.00 V	200	65.75	6.17
4	5350.00	52.95 AV	54.00	-1.05	1.00 V	200	46.78	6.17
5	5374.02	72.32 PK	74.00	-1.68	1.00 V	200	66.11	6.21
6	5374.02	52.62 AV	54.00	-1.38	1.00 V	200	46.41	6.21
7	#10580.00	59.35 PK	68.20	-8.85	1.08 V	122	45.46	13.89
8	15870.00	59.77 PK	74.00	-14.23	1.00 V	52	40.40	19.37
9	15870.00	48.26 AV	54.00	-5.74	1.00 V	52	28.89	19.37

REMARKS:

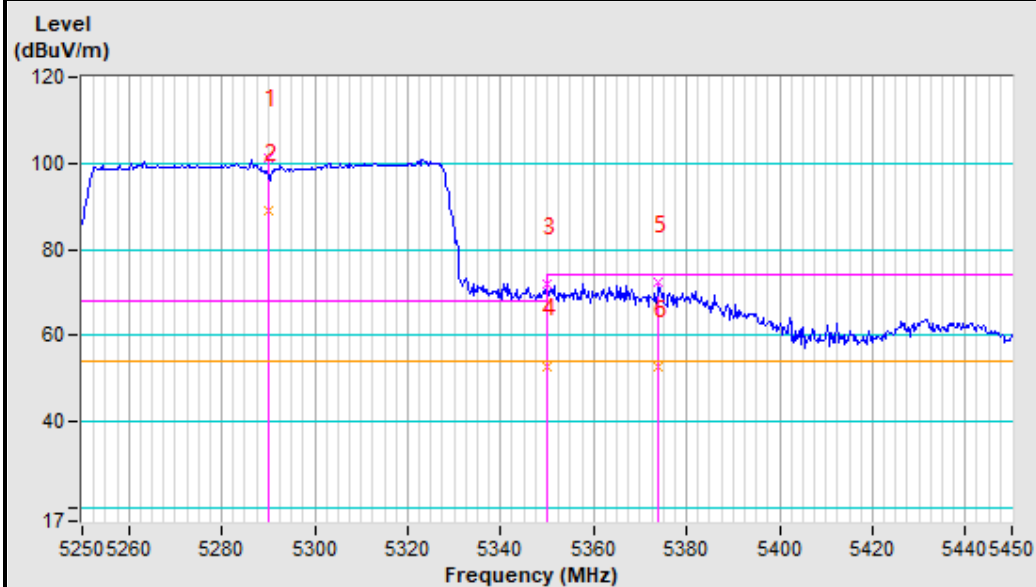
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5290MHz Horizontal



5290MHz Vertical





**BUREAU
VERITAS**

Test Report No.: RF2112WDG3089-3

**Band 3 (5470-5725MHz):
802.11a**

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

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	#5467.40	62.68 PK	68.20	-5.52	1.00 H	64	56.30	6.38
2	#5470.00	61.97 PK	68.20	-6.23	1.00 H	64	55.59	6.38
3	*5500.00	102.71 PK			1.00 H	64	96.27	6.44
4	*5500.00	91.37 AV			1.00 H	64	84.93	6.44
5	11000.00	59.36 PK	74.00	-14.64	1.05 H	86	45.00	14.36
6	11000.00	48.72 AV	54.00	-5.28	1.05 H	86	34.36	14.36
7	#16500.00	59.71 PK	68.20	-8.49	1.54 H	215	39.60	20.11
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5468.26	66.33 PK	68.20	-1.87	1.00 V	205	59.95	6.38
2	#5470.00	66.54 PK	68.20	-1.66	1.00 V	205	60.16	6.38
3	*5500.00	106.45 PK			1.00 V	205	100.01	6.44
4	*5500.00	96.58 AV			1.00 V	205	90.14	6.44
5	11000.00	60.35 PK	74.00	-13.65	1.00 V	233	45.99	14.36
6	11000.00	50.21 AV	54.00	-3.79	1.00 V	233	35.85	14.36
7	#16500.00	60.19 PK	68.20	-8.01	2.00 V	45	40.08	20.11

REMARKS:

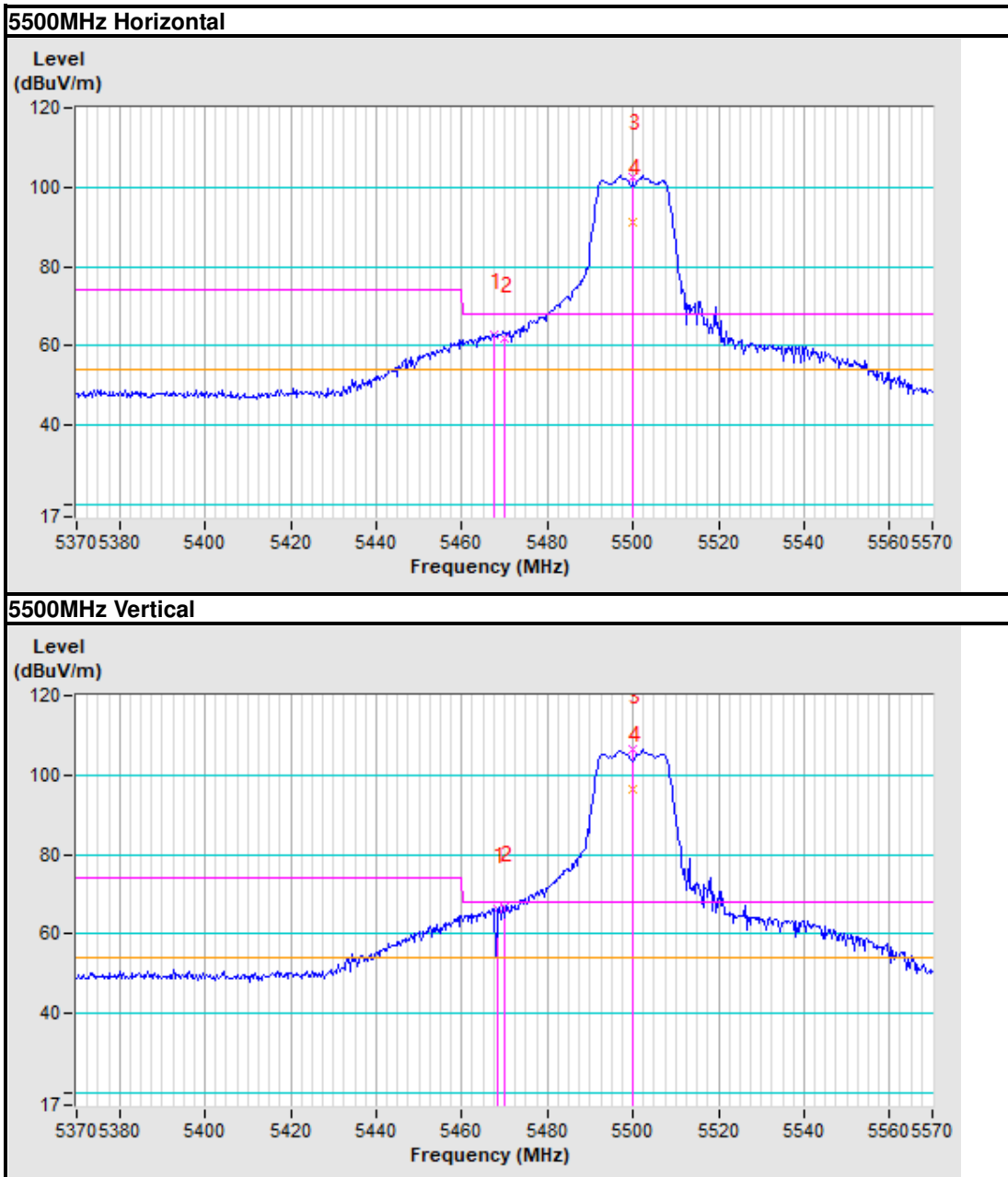
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

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Band edge Plot



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

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	#5470.00	52.15 PK	68.20	-16.05	1.00 H	71	45.77	6.38
2	*5580.00	106.25 PK			1.00 H	71	99.57	6.68
3	*5580.00	95.41 AV			1.00 H	71	88.73	6.68
4	11160.00	57.39 PK	74.00	-16.61	1.19 H	25	42.71	14.68
5	11160.00	45.96 AV	54.00	-8.04	1.19 H	25	31.28	14.68
6	#16740.00	58.33 PK	68.20	-9.87	1.00 H	319	37.77	20.56
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	53.54 PK	68.20	-14.66	1.07 V	199	47.16	6.38
2	*5580.00	111.51 PK			1.07 V	199	104.83	6.68
3	*5580.00	99.39 AV			1.07 V	199	92.71	6.68
4	11160.00	59.36 PK	74.00	-14.64	1.03 V	245	44.68	14.68
5	11160.00	47.05 AV	54.00	-6.95	1.03 V	245	32.37	14.68
6	#16740.00	59.71 PK	68.20	-8.49	1.00 V	244	39.15	20.56

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

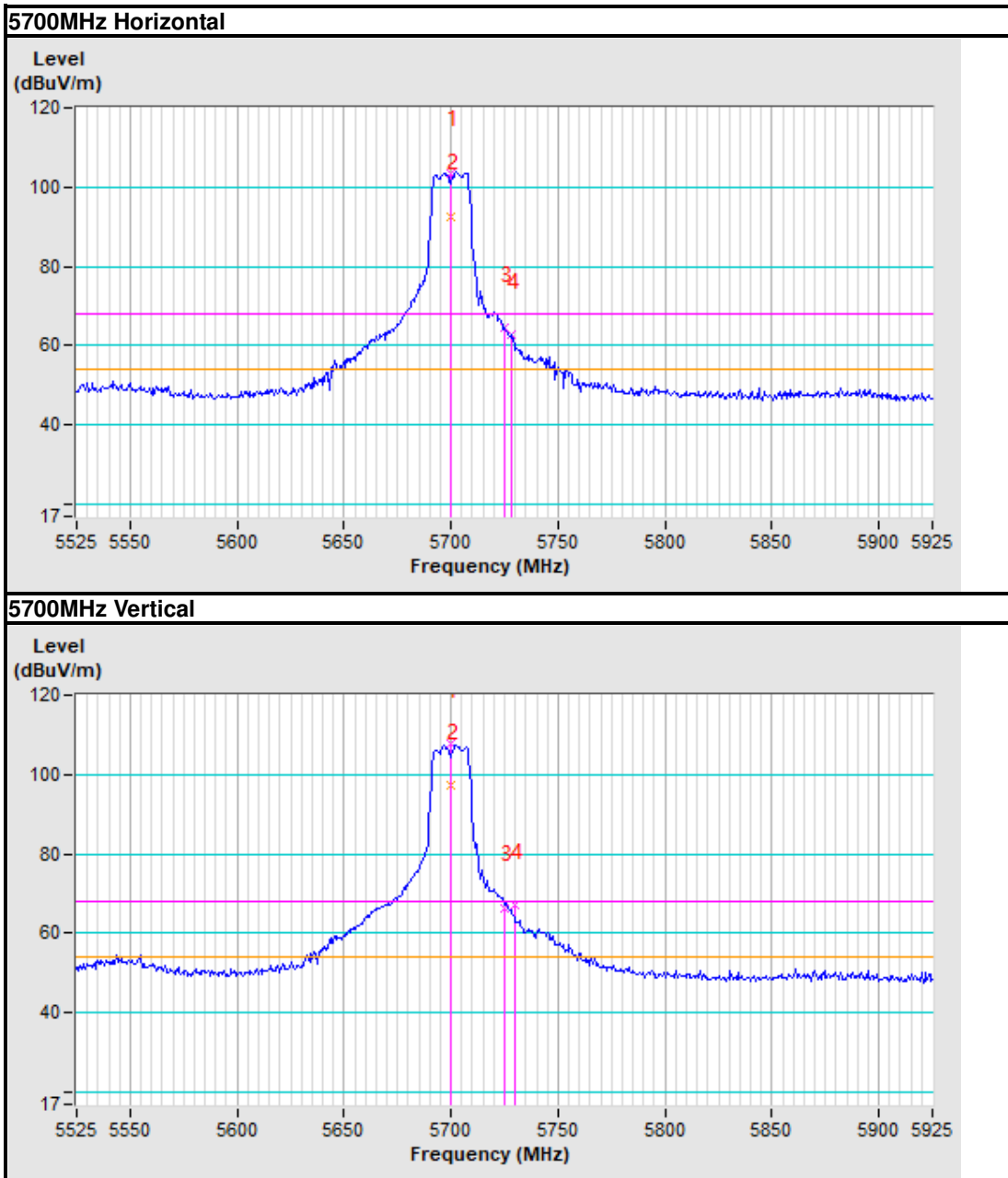
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.48 PK			1.05 H	77	96.45	7.03
2	*5700.00	92.59 AV			1.05 H	77	85.56	7.03
3	#5725.00	64.40 PK	68.20	-3.80	1.05 H	77	57.30	7.10
4	#5728.47	62.74 PK	68.20	-5.46	1.05 H	77	55.63	7.11
5	11400.00	58.63 PK	74.00	-15.37	1.43 H	318	43.48	15.15
6	11400.00	47.25 AV	54.00	-6.75	1.43 H	318	32.10	15.15
7	#17100.00	59.05 PK	68.20	-9.15	1.00 H	247	38.00	21.05
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.70 PK			1.00 V	197	100.67	7.03
2	*5700.00	97.25 AV			1.00 V	197	90.22	7.03
3	#5725.00	66.39 PK	68.20	-1.81	1.00 V	197	59.29	7.10
4	#5729.50	67.06 PK	68.20	-1.14	1.00 V	197	59.95	7.11
5	11400.00	59.76 PK	74.00	-14.24	1.63 V	219	44.61	15.15
6	11400.00	48.57 AV	54.00	-5.43	1.63 V	219	33.42	15.15
7	#17100.00	60.34 PK	68.20	-7.86	1.08 V	331	39.29	21.05

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



802.11n(HT20)

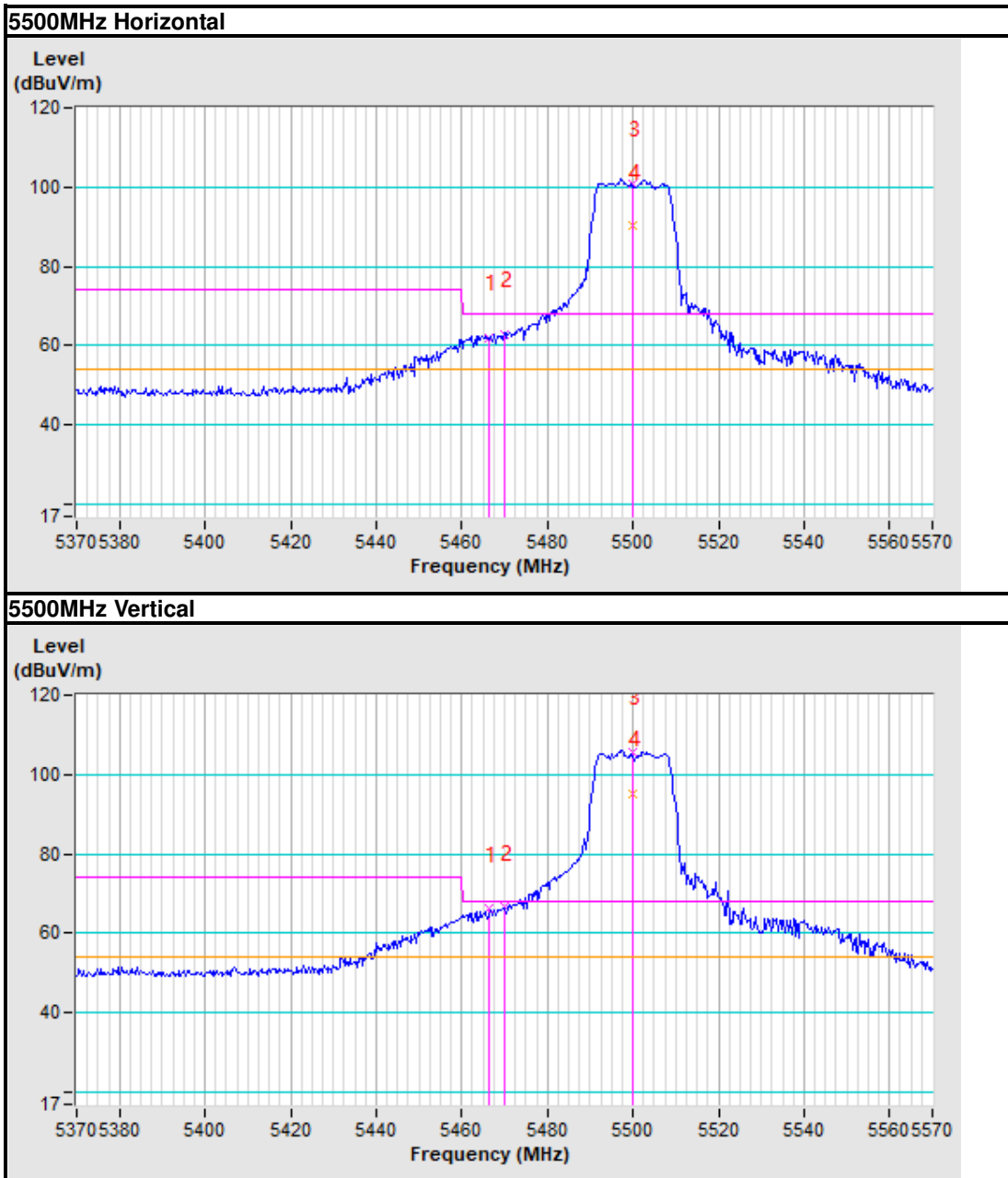
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5466.53	62.09 PK	68.20	-6.11	1.06 H	67	55.71	6.38
2	#5470.00	63.02 PK	68.20	-5.18	1.06 H	67	56.64	6.38
3	*5500.00	100.92 PK			1.06 H	67	94.48	6.44
4	*5500.00	90.34 AV			1.06 H	67	83.90	6.44
5	11000.00	58.25 PK	74.00	-15.75	1.24 H	219	43.89	14.36
6	11000.00	47.33 AV	54.00	-6.67	1.24 H	219	32.97	14.36
7	#16500.00	59.06 PK	68.20	-9.14	1.00 H	34	38.95	20.11
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5466.53	66.15 PK	68.20	-2.05	1.00 V	195	59.77	6.38
2	#5470.00	66.61 PK	68.20	-1.59	1.00 V	195	60.23	6.38
3	*5500.00	105.81 PK			1.00 V	195	99.37	6.44
4	*5500.00	95.29 AV			1.00 V	195	88.85	6.44
5	11000.00	59.34 PK	74.00	-14.66	1.00 V	36	44.98	14.36
6	11000.00	48.22 AV	54.00	-5.78	1.24 V	36	33.86	14.36
7	#16500.00	59.06 PK	68.20	-9.14	1.58 V	337	38.95	20.11

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



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

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	#5470.00	50.34 PK	68.20	-17.86	1.00 H	158	43.96	6.38
2	*5580.00	106.30 PK			1.00 H	158	99.62	6.68
3	*5580.00	95.84 AV			1.00 H	158	89.16	6.68
4	11160.00	57.25 PK	74.00	-16.75	1.05 H	48	42.57	14.68
5	11160.00	45.19 AV	54.00	-8.81	1.05 H	48	30.51	14.68
6	#16740.00	58.17 PK	68.20	-10.03	1.52 H	318	37.61	20.56
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	52.86 PK	68.20	-15.34	1.06 V	195	46.48	6.38
2	*5580.00	111.88 PK			1.06 V	195	105.20	6.68
3	*5580.00	99.39 AV			1.06 V	195	92.71	6.68
4	11160.00	59.72 PK	74.00	-14.28	1.04 V	31	45.04	14.68
5	11160.00	46.98 AV	54.00	-7.02	1.04 V	31	32.30	14.68
6	#16740.00	59.84 PK	68.20	-8.36	1.00 V	25	39.28	20.56

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

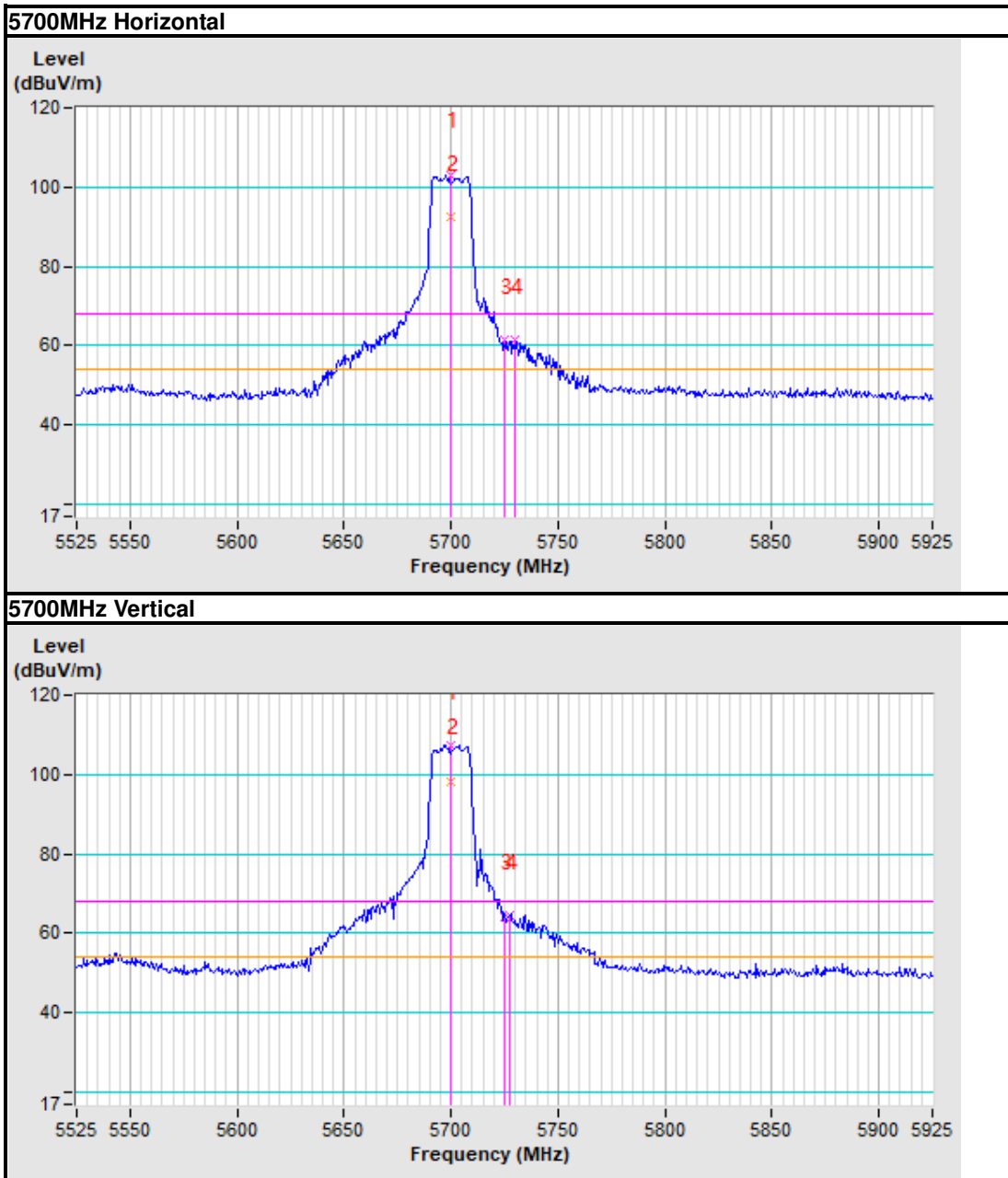
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.07 PK			1.08 H	65	96.04	7.03
2	*5700.00	92.39 AV			1.08 H	65	85.36	7.03
3	#5725.00	61.50 PK	68.20	-6.70	1.08 H	65	54.40	7.10
4	#5729.63	61.39 PK	68.20	-6.81	1.08 H	65	54.28	7.11
5	11400.00	58.95 PK	74.00	-15.05	1.05 H	38	43.80	15.15
6	11400.00	47.29 AV	54.00	-6.71	1.05 H	38	32.14	15.15
7	#17100.00	59.11 PK	68.20	-9.09	1.00 H	21	38.06	21.05
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.26 PK			1.00 V	195	100.23	7.03
2	*5700.00	98.26 AV			1.00 V	195	91.23	7.03
3	#5725.00	64.29 PK	68.20	-3.91	1.00 V	195	57.19	7.10
4	#5727.32	64.55 PK	68.20	-3.65	1.00 V	195	57.45	7.10
5	11400.00	59.37 PK	74.00	-14.63	1.33 V	28	44.22	15.15
6	11400.00	48.96 AV	54.00	-5.04	1.33 V	28	33.81	15.15
7	#17100.00	60.01 PK	68.20	-8.19	1.14 V	305	38.96	21.05

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



802.11n(HT40)

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

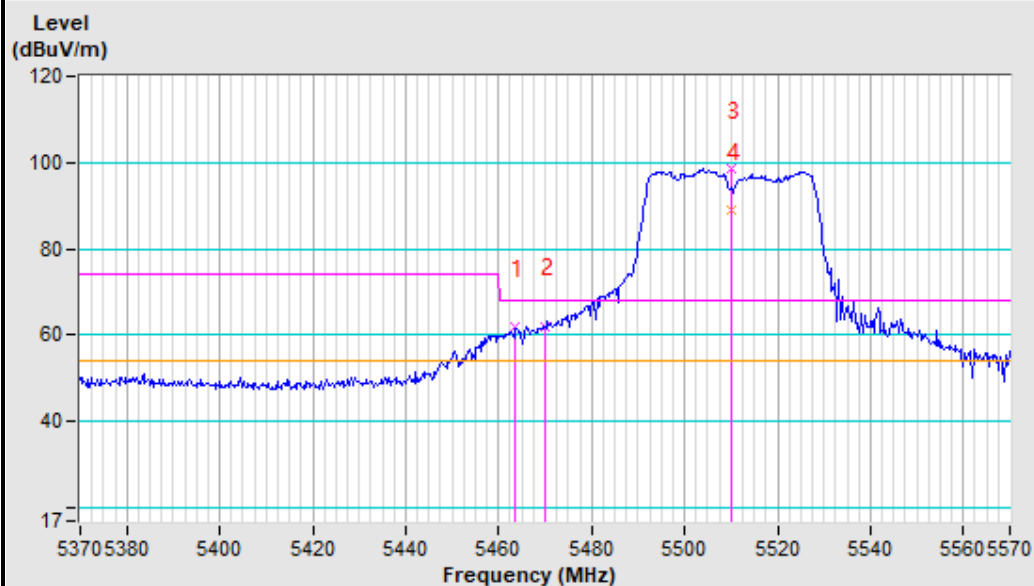
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5463.34	61.79 PK	68.20	-6.41	1.00 H	80	55.41	6.38
2	#5470.00	61.98 PK	68.20	-6.22	1.00 H	80	55.60	6.38
3	*5510.00	98.57 PK			1.00 H	80	92.10	6.47
4	*5510.00	89.00 AV			1.00 H	80	82.53	6.47
5	11020.00	58.36 PK	74.00	-15.64	1.05 H	144	43.97	14.39
6	11020.00	48.22 AV	54.00	-5.78	1.05 H	144	33.83	14.39
7	#16530.00	59.24 PK	68.20	-8.96	1.00 H	208	39.08	20.16
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5467.68	65.89 PK	68.20	-2.31	1.24 V	196	59.51	6.38
2	#5470.00	66.72 PK	68.20	-1.48	1.24 V	196	60.34	6.38
3	*5510.00	104.32 PK			1.24 V	196	97.85	6.47
4	*5510.00	93.58 AV			1.24 V	196	87.11	6.47
5	11020.00	60.25 PK	74.00	-13.75	1.62 V	15	45.86	14.39
6	11020.00	49.73 AV	54.00	-4.27	1.62 V	15	35.34	14.39
7	#16530.00	60.22 PK	68.20	-7.98	1.52 V	306	40.06	20.16

REMARKS:

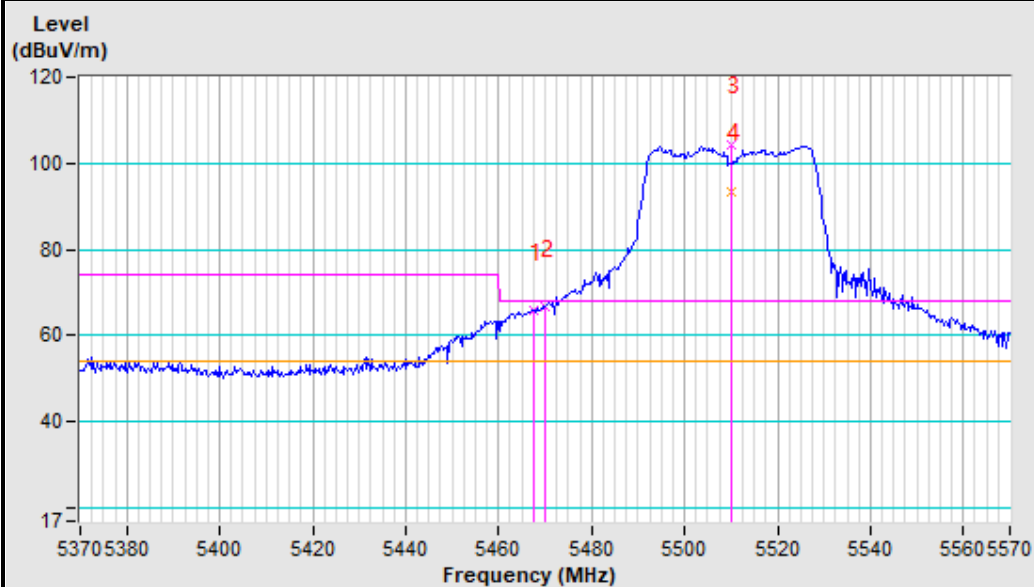
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5510MHz Horizontal



5510MHz Vertical



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

ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	104.26 PK			1.02 H	271	97.68	6.58
2	*5550.00	94.56 AV			1.02 H	271	87.98	6.58
3	#5725.00	54.29 PK	68.20	-13.91	1.02 H	271	47.19	7.10
4	11100.00	57.05 PK	74.00	-16.95	1.28 H	291	42.50	14.55
5	11100.00	45.39 AV	54.00	-8.61	1.28 H	291	30.84	14.55
6	#16650.00	57.69 PK	68.20	-10.51	1.00 H	20	37.30	20.39
7	#16650.00	43.19 AV	54.00	-10.81	1.00 H	20	22.80	20.39
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	109.03 PK			1.00 V	201	102.45	6.58
2	*5550.00	99.28 AV			1.00 V	201	92.70	6.58
3	#5725.00	56.41 PK	68.20	-11.79	1.00 V	201	49.31	7.10
4	11100.00	58.63 PK	74.00	-15.37	1.05 V	36	44.08	14.55
5	11100.00	47.25 AV	54.00	-6.75	1.05 V	36	32.70	14.55
6	#16650.00	59.34 PK	68.20	-8.86	1.04 V	52	38.95	20.39
7	#16650.00	45.38 AV	54.00	-8.62	1.04 V	52	24.99	20.39

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
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)

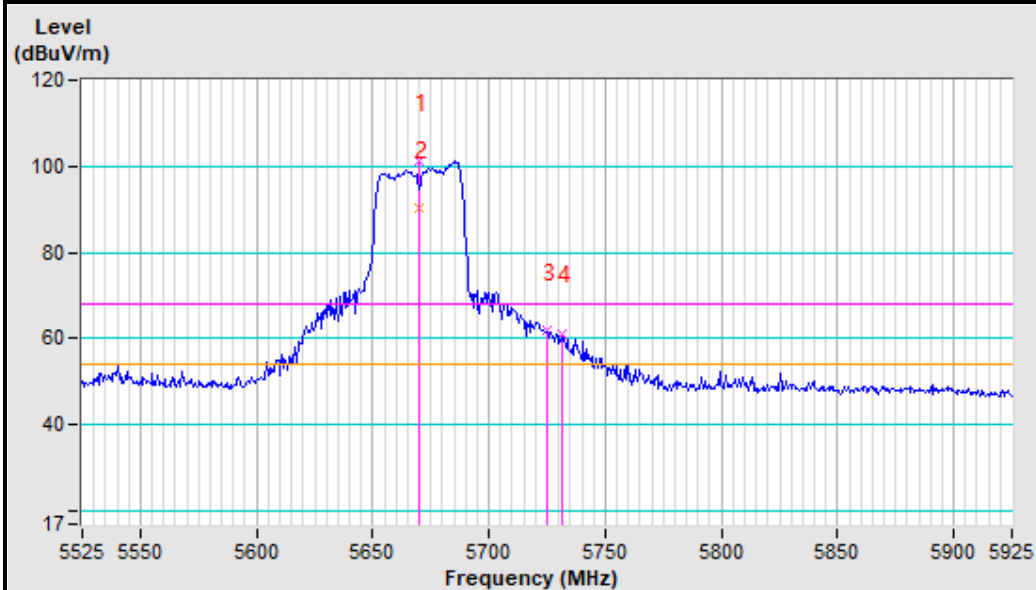
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	101.07 PK			1.15 H	64	94.14	6.93
2	*5670.00	90.22 AV			1.15 H	64	83.29	6.93
3	#5725.00	61.81 PK	68.20	-6.39	1.15 H	64	54.71	7.10
4	#5731.37	61.29 PK	68.20	-6.91	1.15 H	64	54.18	7.11
5	11340.00	59.38 PK	74.00	-14.62	1.02 H	54	44.36	15.02
6	11340.00	48.22 AV	54.00	-5.78	1.02 H	54	33.20	15.02
7	#17010.00	59.69 PK	68.20	-8.51	1.00 H	308	38.66	21.03
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	105.30 PK			1.00 V	169	98.37	6.93
2	*5670.00	95.14 AV			1.00 V	169	88.21	6.93
3	#5725.00	65.79 PK	68.20	-2.41	1.00 V	169	58.69	7.10
4	#5734.26	63.94 PK	68.20	-4.26	1.00 V	169	56.81	7.13
5	11340.00	60.38 PK	74.00	-13.62	1.00 V	114	45.36	15.02
6	11340.00	49.63 AV	54.00	-4.37	1.00 V	114	34.61	15.02
7	#17010.00	60.44 PK	68.20	-7.76	1.03 V	38	39.41	21.03

REMARKS:

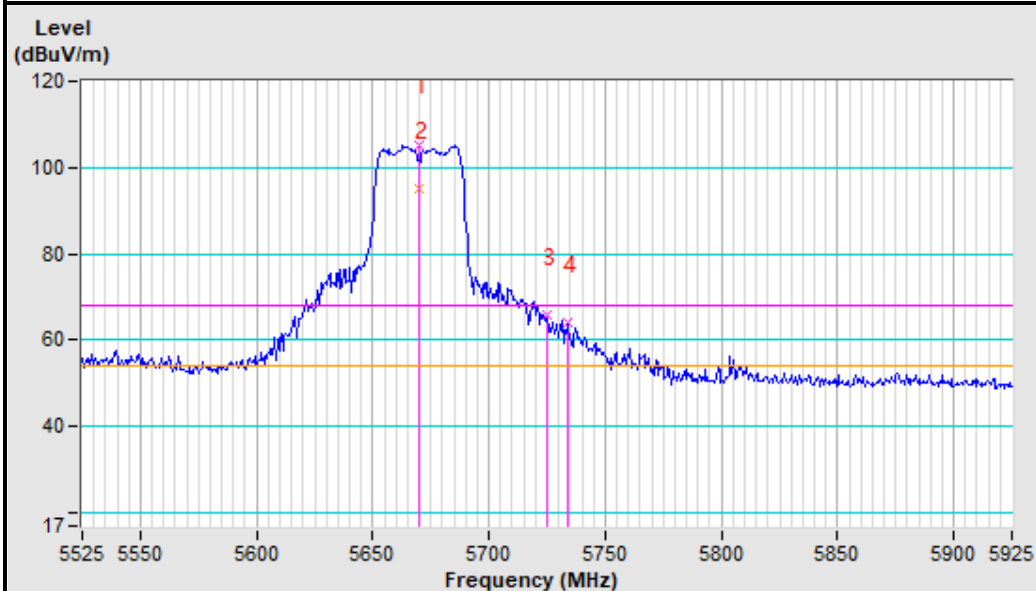
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5670MHz Horizontal



5670MHz Vertical



802.11ac 80MHz

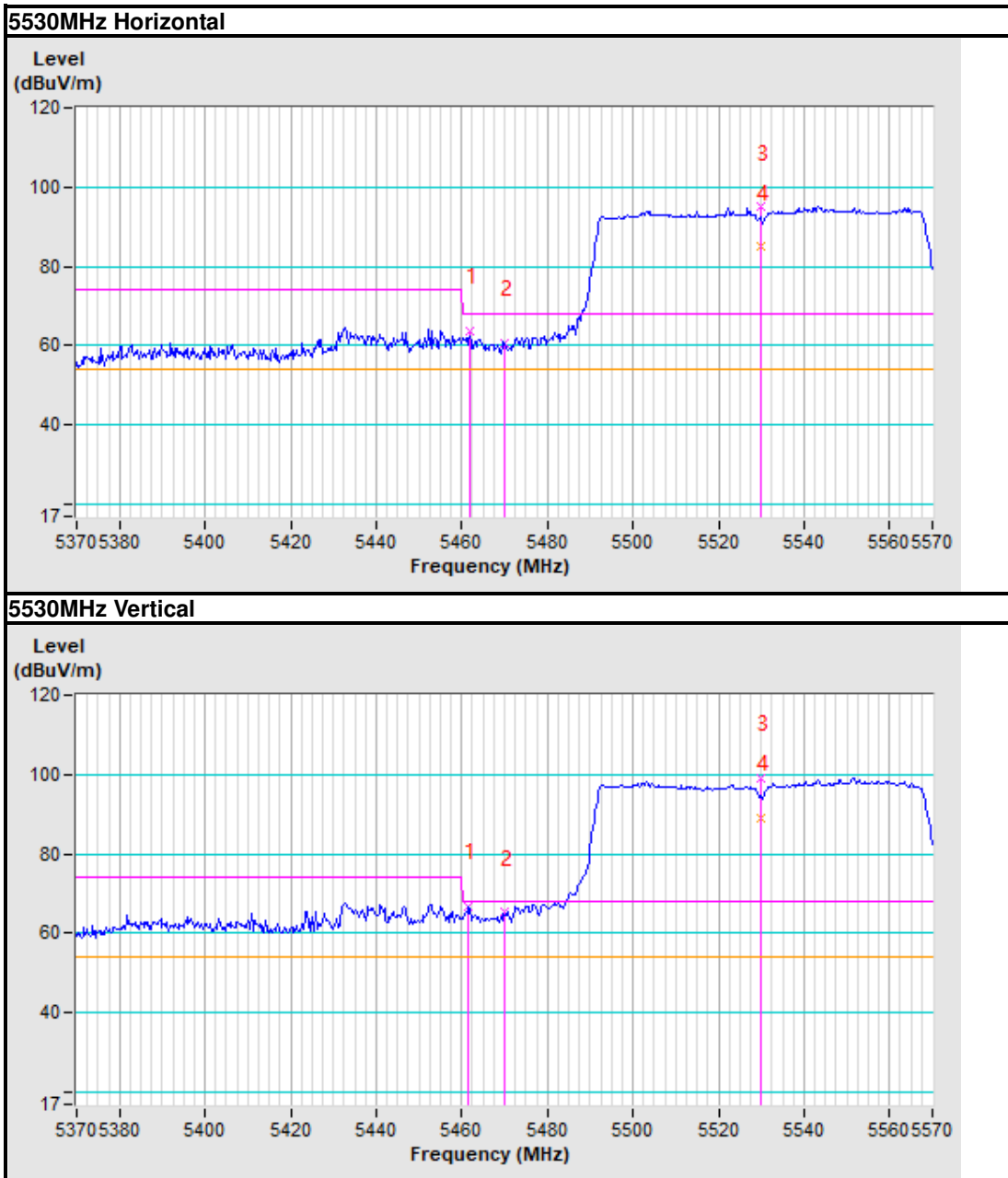
CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5461.90	63.79 PK	68.20	-4.41	1.00 H	68	57.42	6.37
2	#5470.00	60.72 PK	68.20	-7.48	1.00 H	68	54.34	6.38
3	*5530.00	95.01 PK			1.00 H	68	88.48	6.53
4	*5530.00	84.93 AV			1.00 H	68	78.40	6.53
5	11060.00	57.16 PK	74.00	-16.84	1.05 H	316	42.69	14.47
6	11060.00	45.40 AV	54.00	-8.60	1.05 H	316	30.93	14.47
7	#16590.00	57.49 PK	68.20	-10.71	1.00 H	205	37.21	20.28
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5461.32	66.89 PK	68.20	-1.31	1.00 V	201	60.52	6.37
2	#5470.00	65.46 PK	68.20	-2.74	1.00 V	201	59.08	6.38
3	*5530.00	99.26 PK			1.00 V	201	92.73	6.53
4	*5530.00	89.13 AV			1.00 V	201	82.60	6.53
5	11060.00	59.02 PK	74.00	-14.98	1.36 V	24	44.55	14.47
6	11060.00	47.36 AV	54.00	-6.64	1.36 V	24	32.89	14.47
7	#16590.00	59.11 PK	68.20	-9.09	1.00 V	304	38.83	20.28

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



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

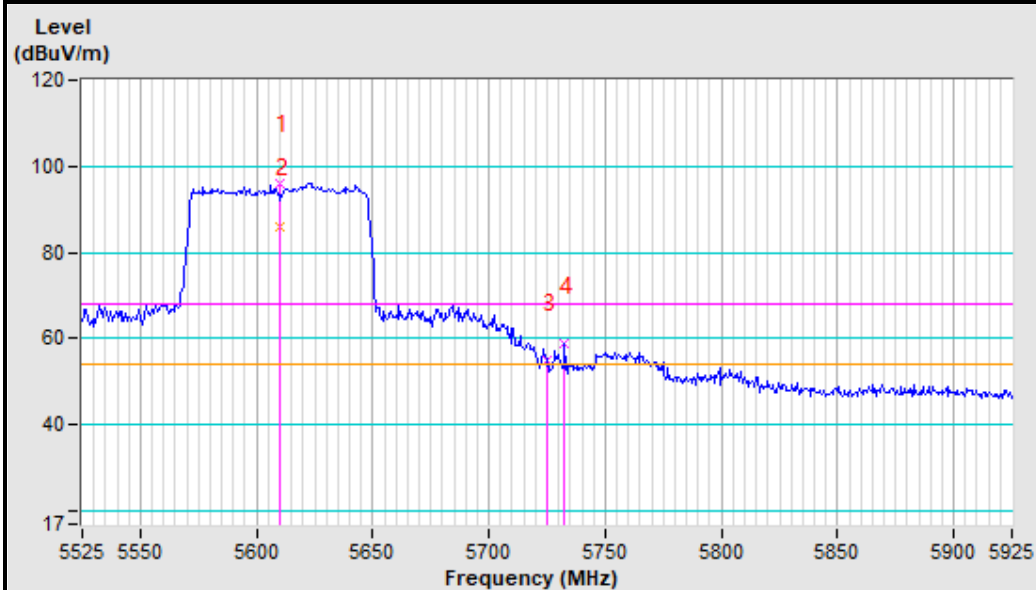
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	96.14 PK			1.08 H	68	89.38	6.76
2	*5610.00	86.05 AV			1.08 H	68	79.29	6.76
3	#5725.00	54.82 PK	68.20	-13.38	1.08 H	68	47.72	7.10
4	#5732.53	58.73 PK	68.20	-9.47	1.08 H	68	51.61	7.12
5	11220.00	57.36 PK	74.00	-16.64	1.07 H	218	42.57	14.79
6	11220.00	45.92 AV	54.00	-8.08	1.07 H	218	31.13	14.79
7	#16830.00	58.44 PK	68.20	-9.76	1.00 H	300	37.72	20.72
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	101.40 PK			1.00 V	195	94.64	6.76
2	*5610.00	91.15 AV			1.00 V	195	84.39	6.76
3	#5725.00	58.84 PK	68.20	-9.36	1.00 V	195	51.74	7.10
4	#5761.47	63.62 PK	68.20	-4.58	1.00 V	195	56.42	7.20
5	11220.00	59.47 PK	74.00	-14.53	1.00 V	356	44.68	14.79
6	11220.00	47.06 AV	54.00	-6.94	1.00 V	356	32.27	14.79
7	#16830.00	59.70 PK	68.20	-8.50	1.05 V	204	38.98	20.72

REMARKS:

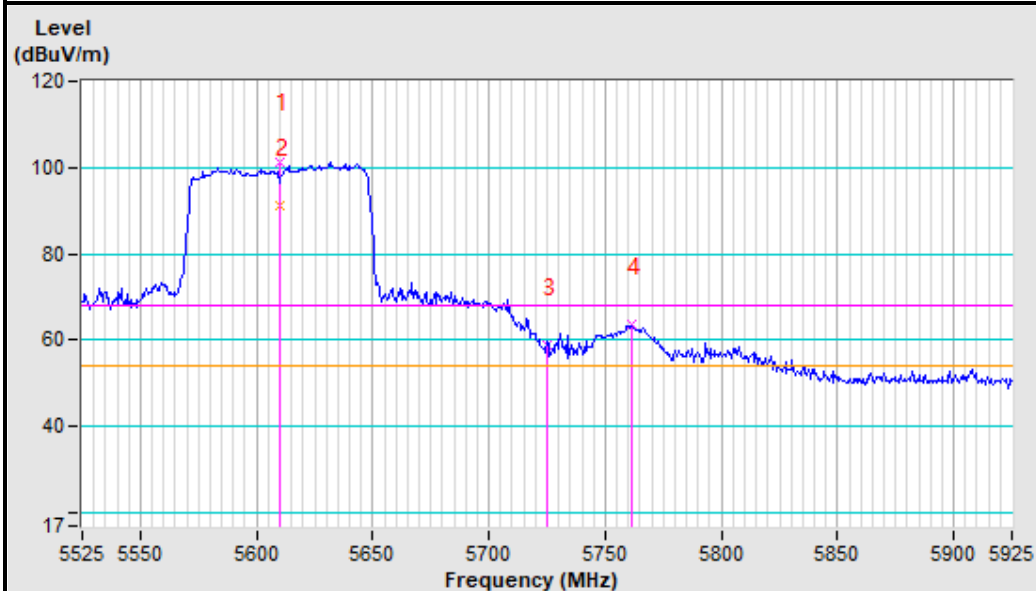
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot

5610MHz Horizontal



5610MHz Vertical



Band 4 (5725-5850MHz):

802.11a

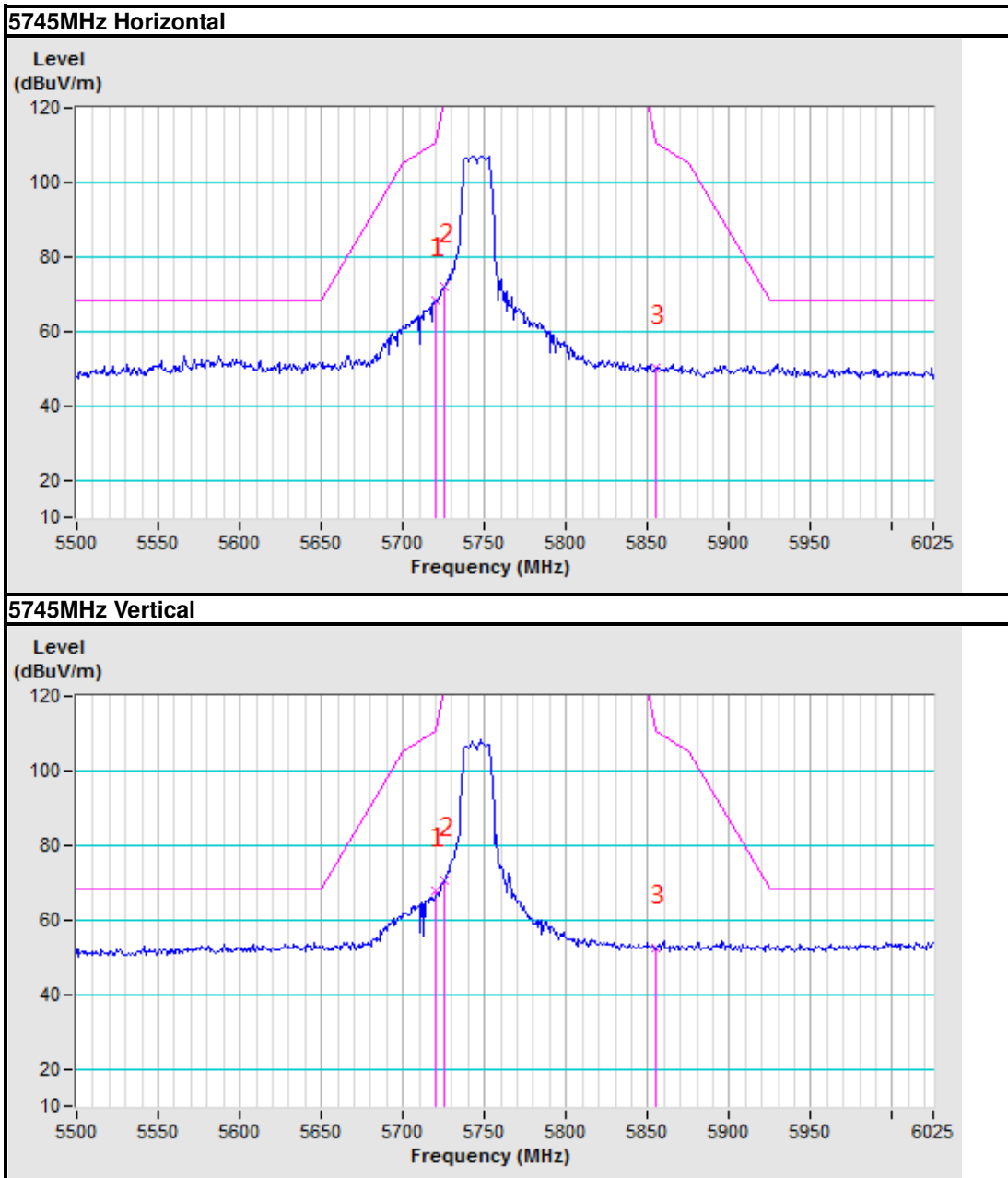
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	68.17 PK	110.80	-42.63	1.00 H	331	61.42	6.75
2	#5725.00	72.00 PK	122.20	-50.20	1.00 H	331	65.23	6.77
3	*5745.00	108.10 PK			1.00 H	125	101.25	6.85
4	*5745.00	98.11 AV			1.00 H	125	91.26	6.85
5	#5855.00	50.02 PK	110.80	-60.78	1.00 H	331	42.72	7.30
6	11490.00	54.05 PK	74.00	-19.95	1.00 H	231	38.08	15.97
7	11490.00	40.86 AV	54.00	-13.14	1.00 H	231	24.89	15.97
8	#17235.00	55.23 PK	68.20	-12.97	1.00 H	135	33.28	21.95
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5720.00	67.86 PK	110.80	-42.94	1.00 V	189	61.11	6.75
2	#5725.00	70.60 PK	122.20	-51.60	1.00 V	189	63.83	6.77
3	*5745.00	108.25 PK			1.00 V	125	101.40	6.85
4	*5745.00	97.36 AV			1.00 V	125	90.51	6.85
5	#5855.00	52.58 PK	110.80	-58.22	1.00 V	189	45.28	7.30
6	11490.00	54.25 PK	74.00	-19.75	1.00 V	231	38.28	15.97
7	11490.00	40.12 AV	54.00	-13.88	1.00 V	231	24.15	15.97
8	#17235.00	54.89 PK	68.20	-13.31	1.00 V	135	32.94	21.95

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



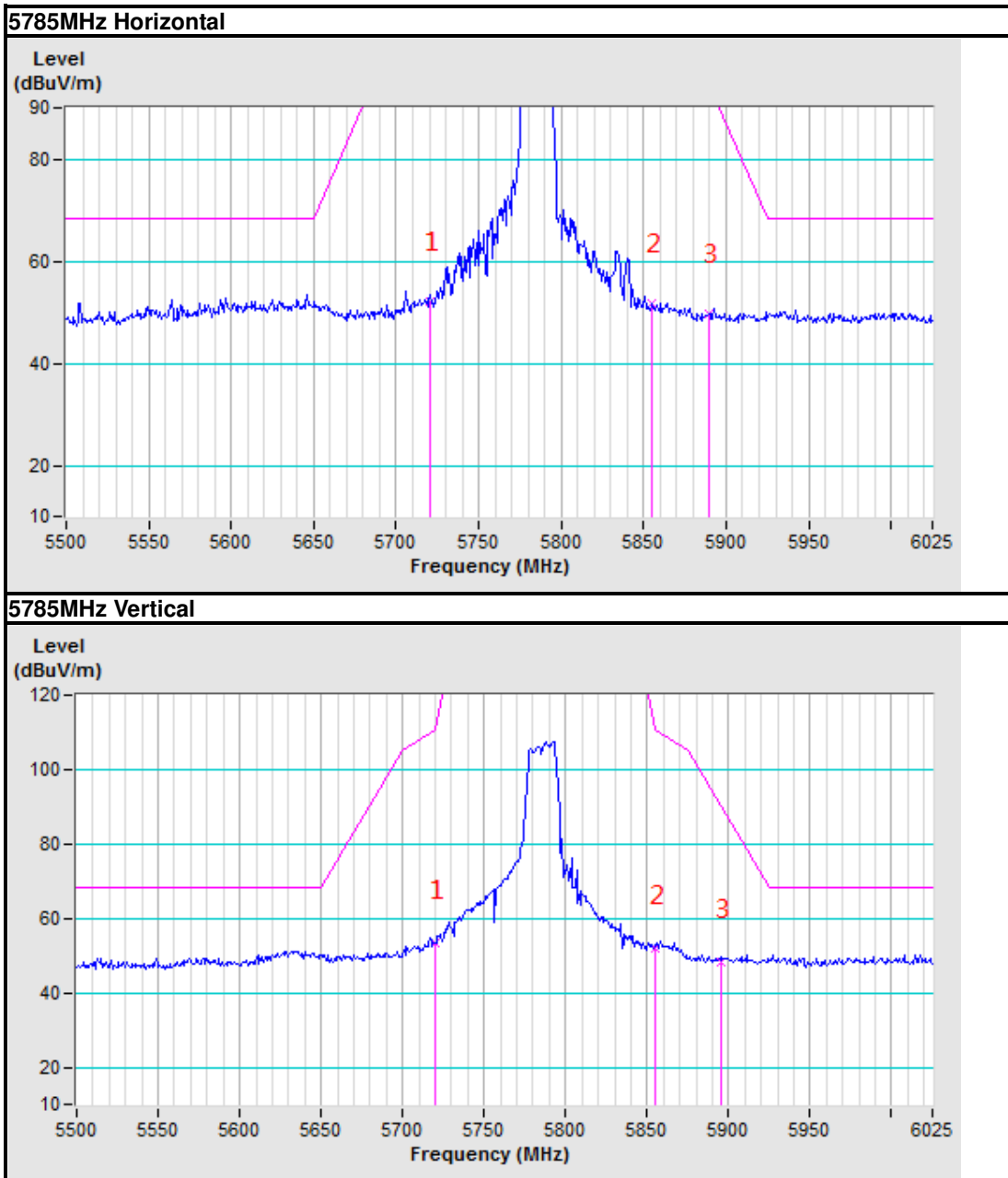
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	52.13 PK	110.80	-58.67	1.00 H	0	45.38	6.75
2	*5785.00	107.92 PK			1.00 H	125	100.90	7.02
3	*5785.00	96.38 AV			1.00 H	125	89.36	7.02
4	#5855.00	51.85 PK	110.80	-58.95	1.00 H	0	44.55	7.30
5	#5890.00	49.63 PK	94.07	-44.44	1.00 H	0	42.18	7.45
6	11570.00	54.08 PK	74.00	-19.92	1.00 H	158	38.03	16.05
7	11570.00	42.33 AV	54.00	-11.67	1.00 H	158	26.28	16.05
8	#17355.00	56.21 PK	68.20	-11.99	1.00 H	147	34.16	22.05
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5720.00	53.38 PK	110.80	-57.42	1.00 V	110	46.63	6.75
2	*5785.00	108.56 PK			1.00 V	125	101.54	7.02
3	*5785.00	95.96 AV			1.00 V	125	88.94	7.02
4	#5855.00	52.16 PK	110.80	-58.64	1.00 V	110	44.86	7.30
5	#5895.00	48.35 PK	90.36	-42.01	1.00 V	110	40.88	7.47
6	11570.00	54.37 PK	74.00	-19.63	1.00 V	158	38.32	16.05
7	11570.00	42.54 AV	54.00	-11.46	1.00 V	158	26.49	16.05
8	#17355.00	56.70 PK	68.20	-11.50	1.00 V	147	34.65	22.05

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



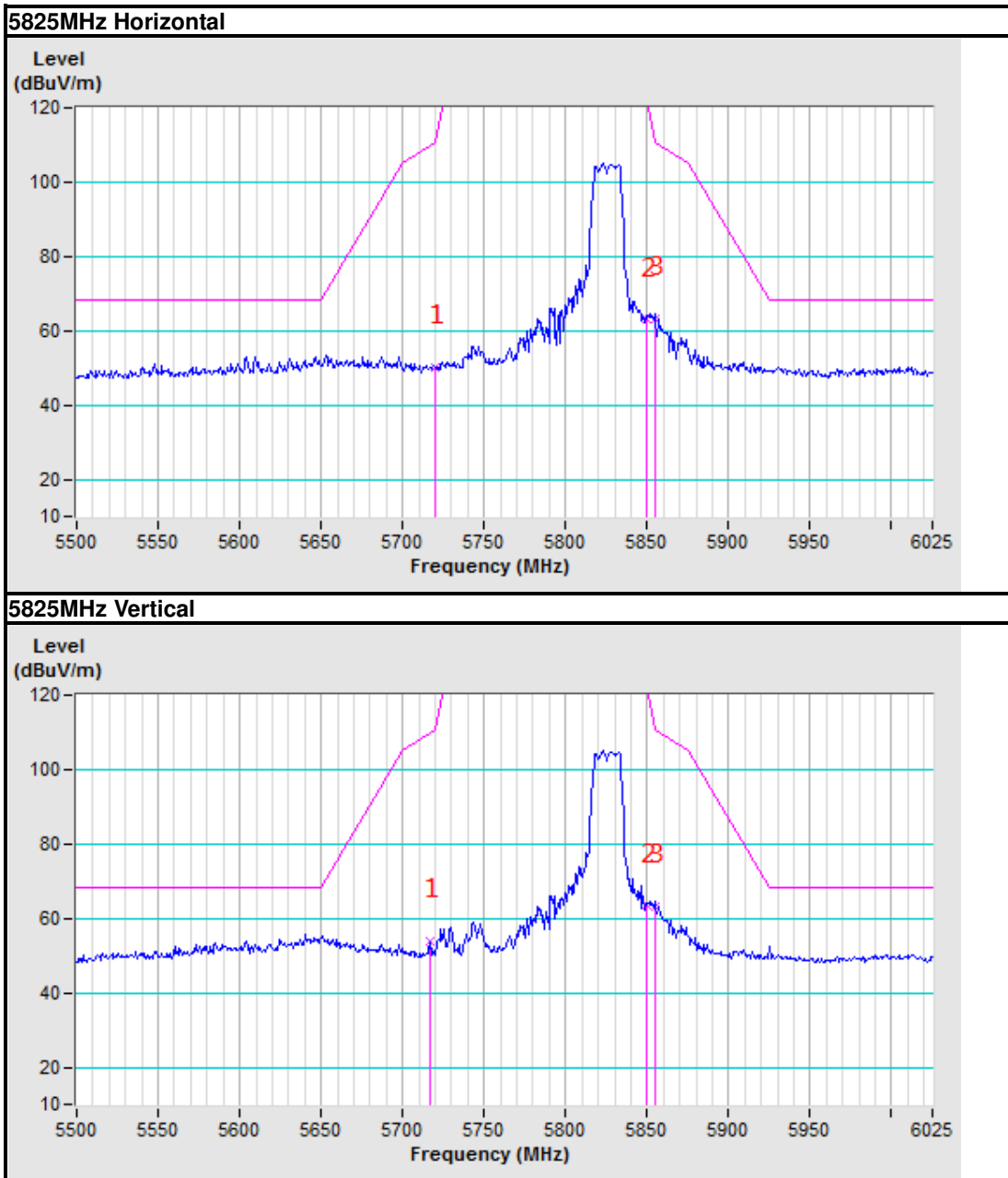
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	50.08 PK	110.80	-60.72	1.00 H	34	43.33	6.75
2	*5825.00	108.15 PK			1.00 H	144	100.97	7.18
3	*5825.00	97.77 AV			1.00 H	144	90.59	7.18
4	#5850.00	62.96 PK	122.20	-59.24	1.00 H	113	55.68	7.28
5	#5855.00	63.35 PK	110.80	-47.45	1.00 H	78	56.05	7.30
6	11650.00	54.35 PK	74.00	-19.65	1.00 H	127	38.24	16.11
7	11650.00	42.08 AV	54.00	-11.92	1.00 H	127	25.97	16.11
8	#17475.00	56.71 PK	68.20	-11.49	1.00 H	178	34.56	22.15
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5716.96	53.86 PK	109.95	-56.09	1.00 V	0	47.12	6.74
2	*5825.00	108.57 PK			1.00 V	144	101.39	7.18
3	*5825.00	98.21 AV			1.00 V	144	91.03	7.18
4	#5850.00	63.44 PK	122.20	-58.76	1.00 V	0	56.16	7.28
5	#5855.00	63.35 PK	110.80	-47.45	1.00 V	0	56.05	7.30
6	11650.00	54.15 PK	74.00	-19.85	1.00 V	127	38.04	16.11
7	11650.00	42.52 AV	54.00	-11.48	1.00 V	127	26.41	16.11
8	#17475.00	55.68 PK	68.20	-12.52	1.00 V	178	33.53	22.15

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



802.11n(HT20)

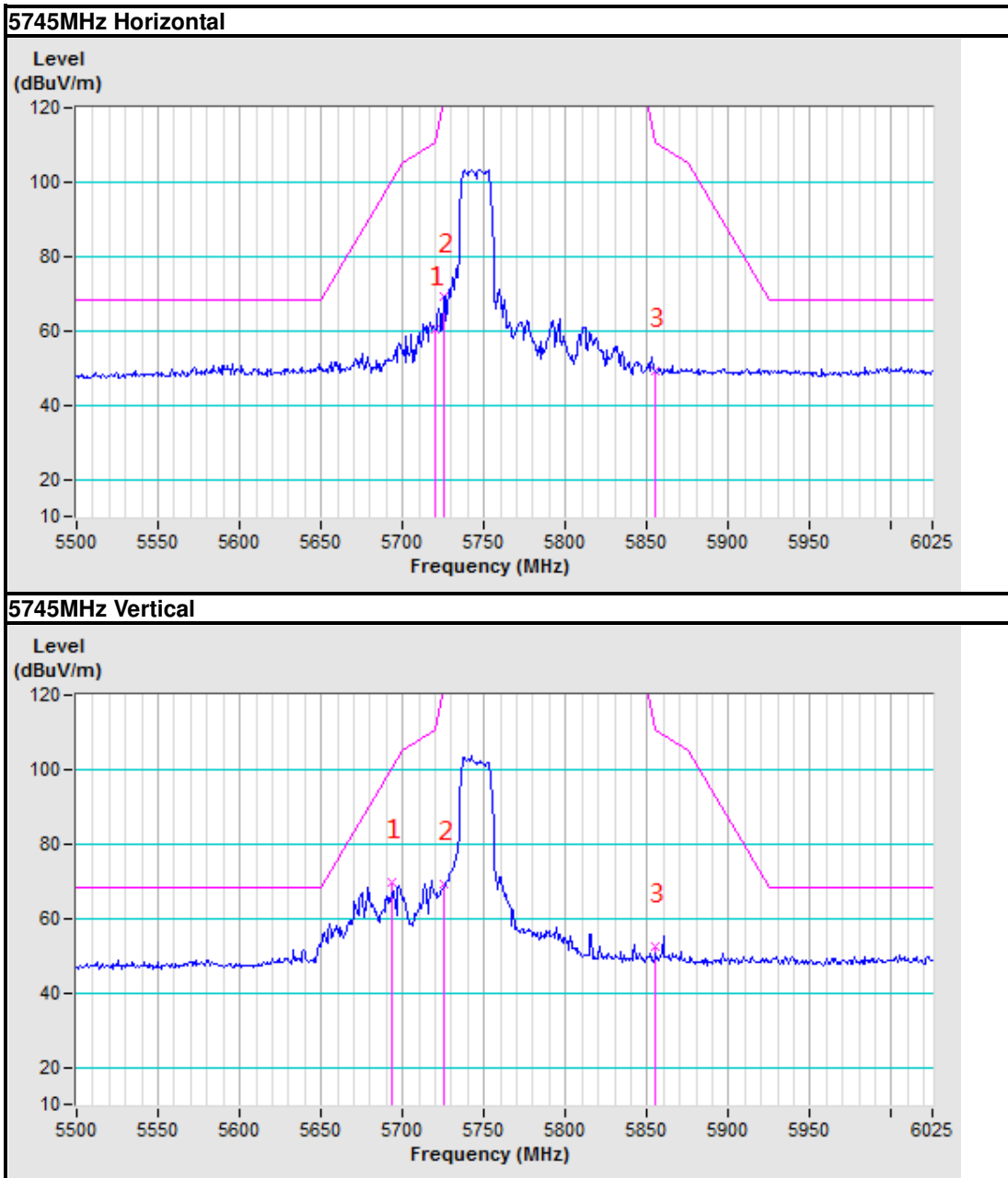
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	60.30 PK	110.80	-50.50	1.00 H	0	53.55	6.75
2	#5725.00	69.18 PK	122.20	-53.02	1.00 H	0	62.41	6.77
3	*5745.00	107.96 PK			1.00 H	147	101.11	6.85
4	*5745.00	97.45 AV			1.00 H	147	90.60	6.85
5	#5855.00	49.29 PK	110.80	-61.51	1.00 H	0	41.99	7.30
6	11490.00	53.20 PK	74.00	-20.80	1.00 H	139	37.23	15.97
7	11490.00	42.17 AV	54.00	-11.83	1.00 H	139	26.20	15.97
8	#17235.00	55.28 PK	68.20	-12.92	1.00 H	110	33.33	21.95
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5693.85	69.71 PK	100.67	-30.96	1.00 V	112	63.07	6.64
2	#5725.00	69.27 PK	122.20	-52.93	1.00 V	112	62.50	6.77
3	*5745.00	108.33 PK			1.00 V	147	101.48	6.85
4	*5745.00	98.20 AV			1.00 V	147	91.35	6.85
5	#5855.00	52.39 PK	110.80	-58.41	1.00 V	112	45.09	7.30
6	11490.00	53.64 PK	74.00	-20.36	1.00 V	139	37.67	15.97
7	11490.00	42.69 AV	54.00	-11.31	1.00 V	139	26.72	15.97
8	#17235.00	55.47 PK	68.20	-12.73	1.00 V	110	33.52	21.95

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



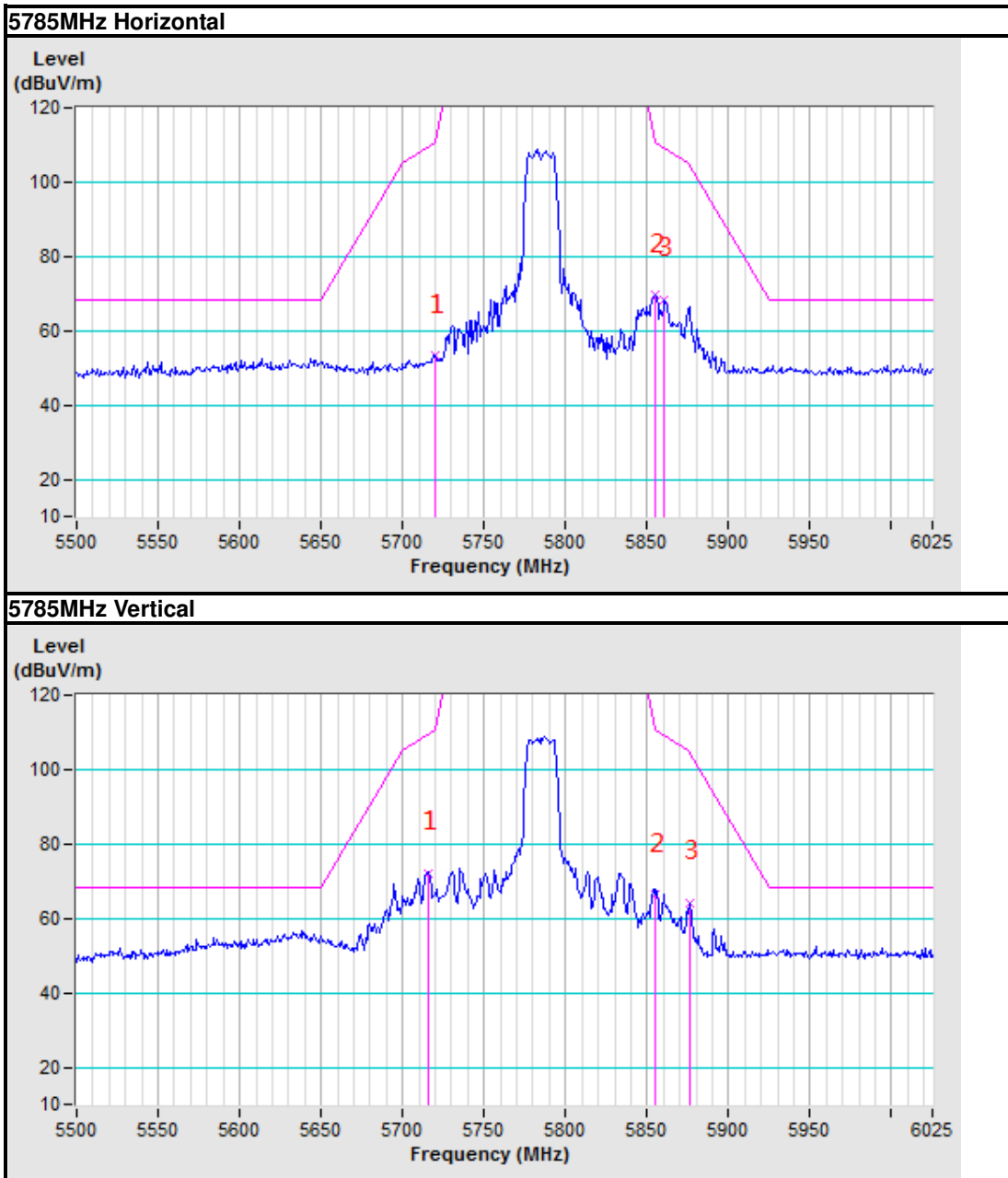
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	53.17 PK	110.80	-57.63	1.00 H	0	46.42	6.75
2	*5785.00	108.32 PK			1.00 H	158	101.30	7.02
3	*5785.00	98.77 AV			1.00 H	158	91.75	7.02
4	#5855.00	69.46 PK	110.80	-41.34	1.00 H	0	62.16	7.30
5	#5860.56	68.21 PK	109.24	-41.03	1.00 H	0	60.89	7.32
6	11570.00	53.67 PK	74.00	-20.33	1.00 H	0	37.62	16.05
7	11570.00	42.97 AV	54.00	-11.03	1.00 H	0	26.92	16.05
8	#17355.00	54.36 PK	68.20	-13.84	1.00 H	147	32.31	22.05
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5715.44	72.17 PK	109.52	-37.35	1.00 V	0	65.45	6.72
2	*5785.00	108.96 PK			1.00 V	158	101.94	7.02
3	*5785.00	98.97 AV			1.00 V	158	91.95	7.02
4	#5855.00	66.25 PK	110.80	-44.55	1.00 V	0	58.95	7.30
5	#5875.87	64.22 PK	104.55	-40.33	1.00 V	0	56.83	7.39
6	11570.00	53.25 PK	74.00	-20.75	1.00 V	0	37.20	16.05
7	11570.00	42.81 AV	54.00	-11.19	1.00 V	0	26.76	16.05
8	#17355.00	55.93 PK	68.20	-12.27	1.00 V	147	33.88	22.05

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



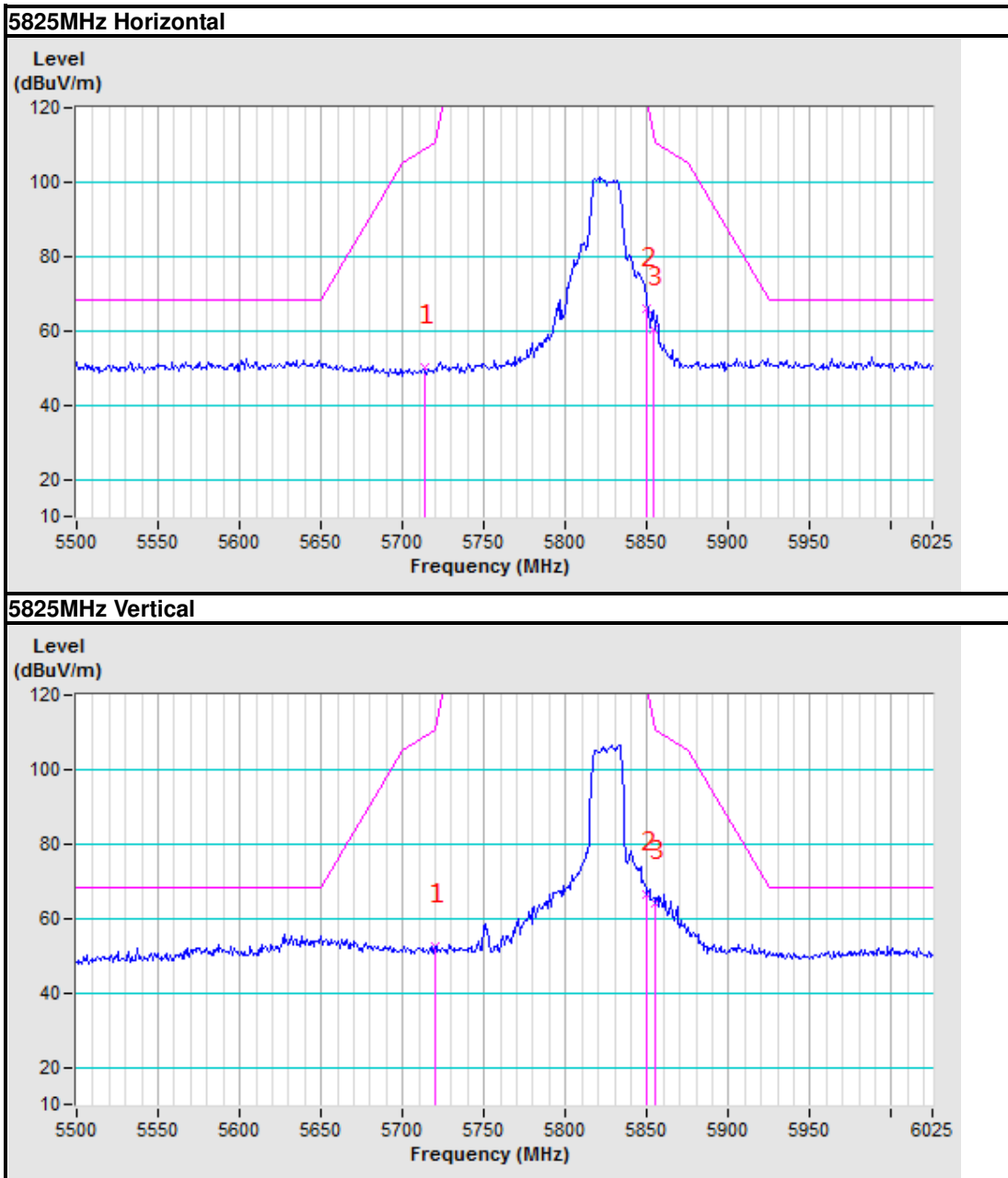
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5714.06	50.12 PK	109.14	-59.02	2.00 H	268	43.40	6.72
2	*5825.00	107.76 PK			1.00 H	136	100.58	7.18
3	*5825.00	97.41 AV			1.00 H	136	90.23	7.18
4	#5850.00	65.76 PK	122.20	-56.44	2.00 H	268	58.48	7.28
5	#5854.26	60.35 PK	112.49	-52.14	2.00 H	268	53.05	7.30
6	11650.00	54.83 PK	74.00	-19.17	1.00 H	47	38.72	16.11
7	11650.00	42.28 AV	54.00	-11.72	1.00 H	47	26.17	16.11
8	#17475.00	56.08 PK	68.20	-12.12	1.00 H	115	33.93	22.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5720.00	52.35 PK	110.80	-58.45	1.00 V	0	45.60	6.75
2	*5825.00	108.46 PK			1.00 V	136	101.28	7.18
3	*5825.00	98.15 AV			1.00 V	136	90.97	7.18
4	#5850.00	66.31 PK	122.20	-55.89	1.00 V	0	59.03	7.28
5	#5855.00	64.12 PK	110.80	-46.68	1.00 V	0	56.82	7.30
6	11650.00	55.47 PK	74.00	-18.53	1.00 V	47	39.36	16.11
7	11650.00	42.39 AV	54.00	-11.61	1.00 V	47	26.28	16.11
8	#17475.00	56.23 PK	68.20	-11.97	1.00 V	115	34.08	22.15

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



802.11n(HT40)

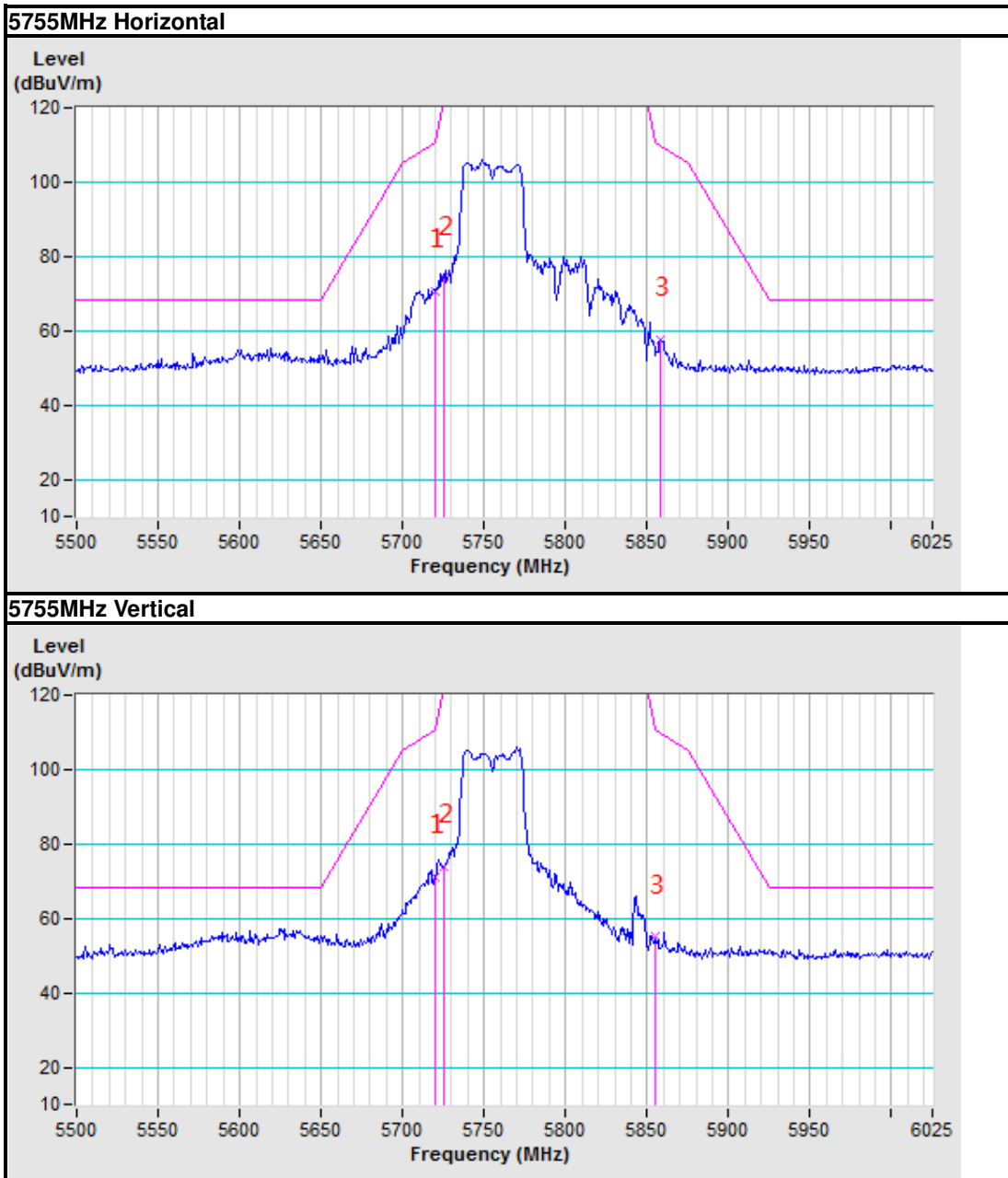
CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	70.66 PK	110.80	-40.14	1.00 H	0	63.91	6.75
2	#5725.00	74.17 PK	122.20	-48.03	1.00 H	0	67.40	6.77
3	*5755.00	105.32 PK			1.00 H	125	98.43	6.89
4	*5755.00	95.37 AV			1.00 H	125	88.48	6.89
5	#5858.04	57.72 PK	109.95	-52.23	1.00 H	0	50.40	7.32
6	11510.00	54.00 PK	74.00	-20.00	1.00 H	178	38.01	15.99
7	11510.00	42.00 AV	54.00	-12.00	1.00 H	178	26.01	15.99
8	#17265.00	55.71 PK	68.20	-12.49	1.00 H	147	33.73	21.98
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5720.00	71.01 PK	110.80	-39.79	1.00 V	0	64.26	6.75
2	#5725.00	73.76 PK	122.20	-48.44	1.00 V	0	66.99	6.77
3	*5755.00	105.73 PK			1.00 V	125	98.84	6.89
4	*5755.00	95.88 AV			1.00 V	125	88.99	6.89
5	#5855.00	55.00 PK	110.80	-55.80	1.00 V	0	47.70	7.30
6	11510.00	54.42 PK	74.00	-19.58	1.00 V	178	38.43	15.99
7	11510.00	42.20 AV	54.00	-11.80	1.00 V	178	26.21	15.99
8	#17265.00	55.53 PK	68.20	-12.67	1.00 V	147	33.55	21.98

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



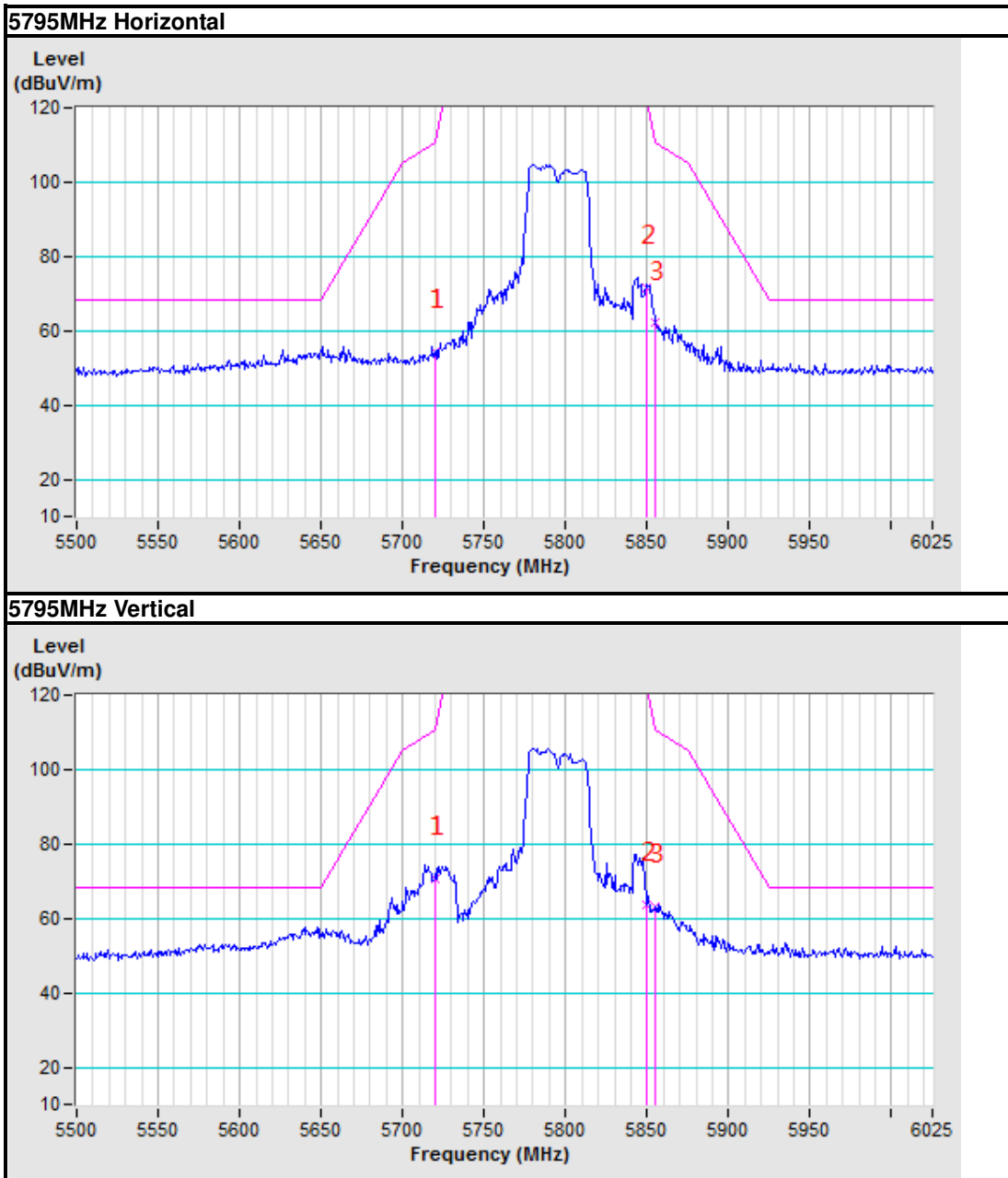
CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 40GHz		Average (AV)

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	#5720.00	54.31 PK	110.80	-56.49	1.00 H	0	47.56	6.75
2	*5795.00	105.08 PK			1.00 H	114	98.03	7.05
3	*5795.00	95.11 AV			1.00 H	114	88.06	7.05
4	#5850.00	71.67 PK	122.20	-50.53	1.00 H	0	64.39	7.28
5	#5855.00	62.06 PK	110.80	-48.74	1.00 H	0	54.76	7.30
6	11590.00	55.82 PK	74.00	-18.18	1.00 H	145	39.76	16.06
7	11590.00	42.57 AV	54.00	-11.43	1.00 H	145	26.51	16.06
8	#17385.00	56.20 PK	68.20	-12.00	1.00 H	146	34.13	22.07
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5720.00	70.65 PK	110.80	-40.15	1.00 V	2	63.90	6.75
2	*5795.00	105.47 PK			1.00 V	114	98.42	7.05
3	*5795.00	95.21 AV			1.00 V	114	88.16	7.05
4	#5850.00	63.59 PK	122.20	-58.61	1.00 V	93	56.31	7.28
5	#5855.00	63.28 PK	110.80	-47.52	1.00 V	47	55.98	7.30
6	11590.00	55.67 PK	74.00	-18.33	1.00 V	145	39.61	16.06
7	11590.00	42.37 AV	54.00	-11.63	1.00 V	145	26.31	16.06
8	#17385.00	56.00 PK	68.20	-12.20	1.00 V	146	33.93	22.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

Band edge Plot



802.11ac 80MHz

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

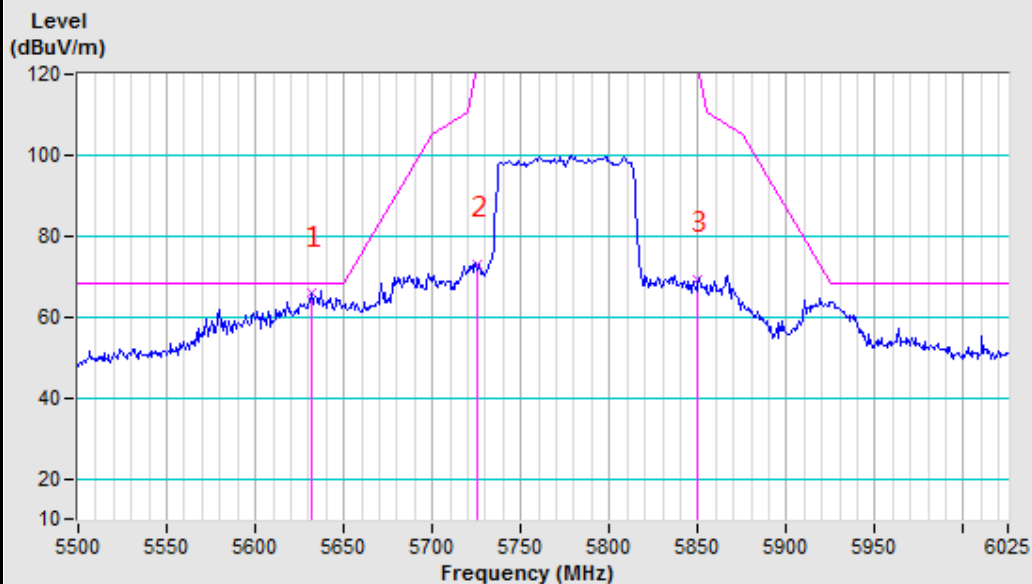
ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5631.63	65.75 PK	68.20	-2.45	1.13 H	331	59.36	6.39
2	#5725.00	72.89 PK	122.20	-49.31	1.13 H	331	66.12	6.77
3	*5775.00	100.57 PK			1.00 H	125	93.60	6.97
4	*5775.00	82.54 AV			1.00 H	125	75.57	6.97
5	#5850.00	69.10 PK	122.20	-53.10	1.13 H	331	61.82	7.28
6	11550.00	54.32 PK	74.00	-19.68	1.00 H	125	38.30	16.02
7	11550.00	41.25 AV	54.00	-12.75	1.00 H	125	25.23	16.02
8	#17325.00	55.57 PK	68.20	-12.63	1.00 H	136	33.54	22.03
ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5636.96	70.50 PK			1.00 V	0	64.10	6.40
2	#5725.00	73.31 PK	122.20	-48.89	1.00 V	0	66.54	6.77
3	*5775.00	102.45 PK			1.00 V	125	95.48	6.97
4	*5775.00	85.14 AV			1.00 V	125	78.17	6.97
5	#5850.00	66.85 PK	122.20	-55.35	1.00 V	0	59.57	7.28
6	11550.00	53.32 PK	74.00	-20.68	1.00 V	125	37.30	16.02
7	11550.00	41.06 AV	54.00	-12.94	1.00 V	125	25.04	16.02
8	#17325.00	55.82 PK	68.20	-12.38	1.00 V	136	33.79	22.03

REMARKS:

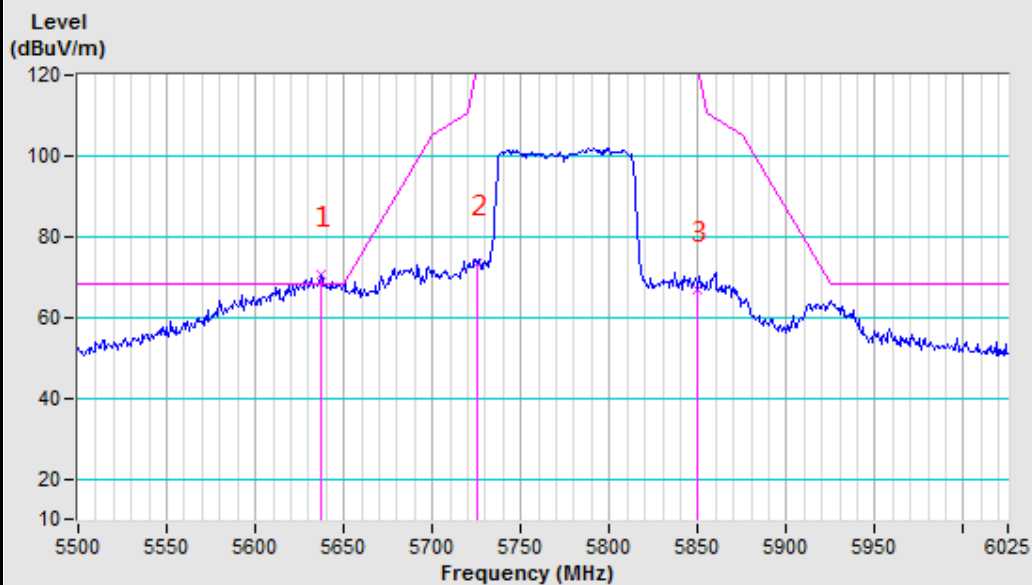
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were greater than 20dB margin.
4. Margin value = Emission level – Limit value.
5. " * " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

Band edge Plot

5775MHz Horizontal



5775MHz Vertical



3.2 CONDUCTED EMISSION MEASUREMENT

3.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTES:**
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.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR7	101494	Mar. 07,22
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Mar. 07,22
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Mar. 07,22
Voltage probe	SCHWARZBECK	TK 9421	TK 9421-176	Aug. 05,22
Coaxial RF Cable	/	CE CABLE	C2310066DG	Jul. 27,22
Test software	ADT	ADT_Cond_V7.3 .7	N/A	N/A

- NOTES:**
1. The test was performed in shielded room 553.
 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.2.3 TEST PROCEDURES

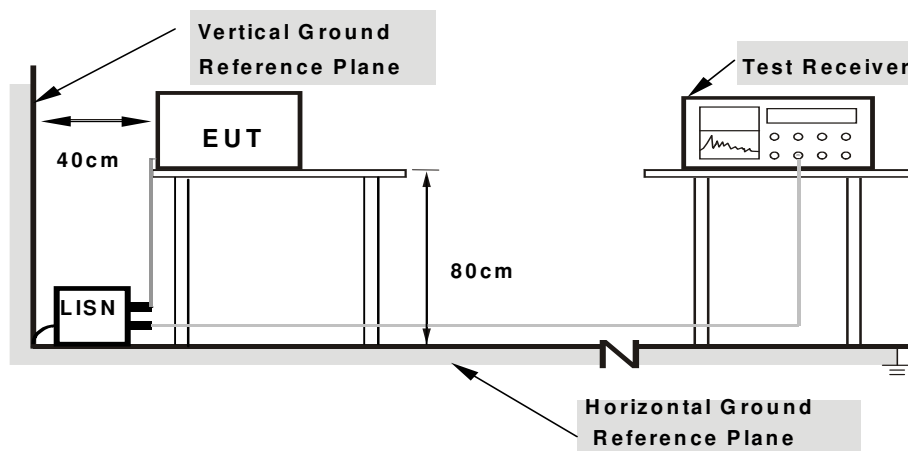
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance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

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation.

3.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

3.2.6 EUT OPERATING CONDITIONS

Same as 3.1.7

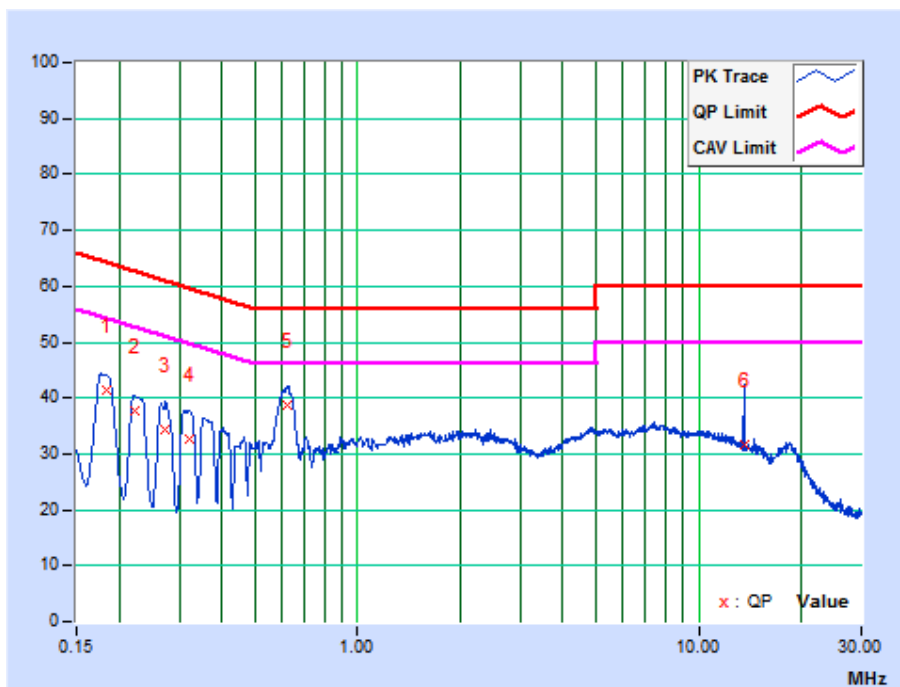
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a CH36

PHASE	Line	6dB BANDWIDTH	9kHz
-------	------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18267	10.12	31.25	15.90	41.37	26.02	64.36	54.36	-23.00	-28.35
2	0.22151	10.11	27.53	10.49	37.64	20.60	62.76	52.76	-25.13	-32.17
3	0.27375	10.09	24.24	9.49	34.33	19.58	61.00	51.00	-26.68	-31.43
4	0.32100	10.07	22.71	8.75	32.78	18.82	59.68	49.68	-26.90	-30.86
5	0.62029	10.03	28.53	13.31	38.56	23.34	56.00	46.00	-17.44	-22.66
6	13.56000	10.29	21.49	5.18	31.78	15.47	60.00	50.00	-28.22	-34.53

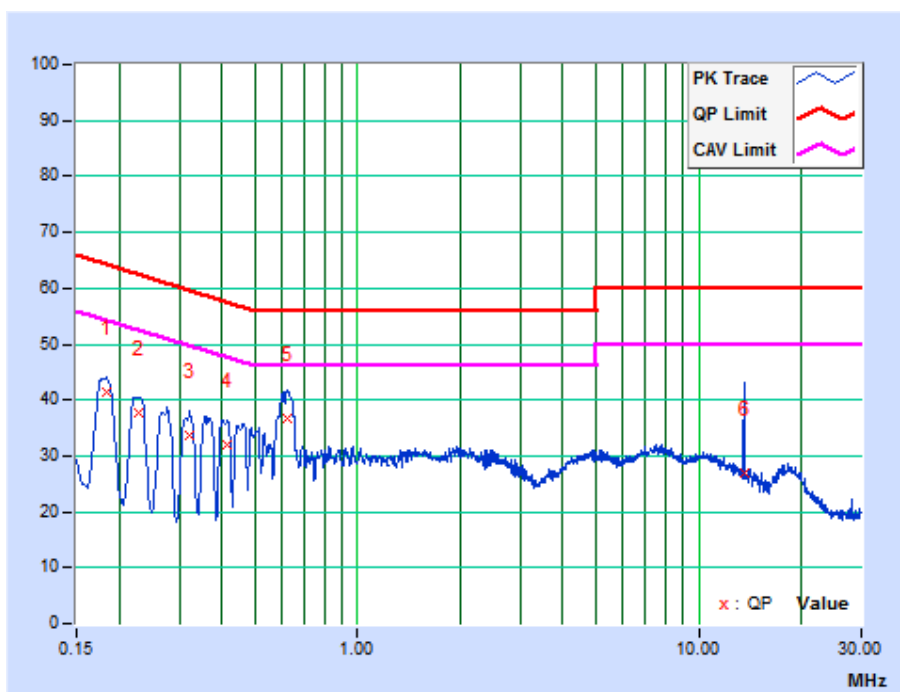
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. The emission levels of other frequencies were very low against the limit.
 3. Margin value = Emission level - Limit value
 4. Correction factor = Insertion loss + Cable loss
 5. Emission Level = Correction Factor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



PHASE	Neutral	6dB BANDWIDTH	9kHz
-------	---------	---------------	------

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18316	10.00	31.53	15.25	41.53	25.25	64.34	54.34	-22.81	-29.09
2	0.22875	10.00	27.60	11.24	37.60	21.24	62.49	52.49	-24.89	-31.25
3	0.32142	9.99	23.55	7.92	33.54	17.91	59.67	49.67	-26.13	-31.76
4	0.41305	10.00	21.94	6.06	31.94	16.06	57.59	47.59	-25.65	-31.53
5	0.62029	9.94	26.80	11.34	36.74	21.28	56.00	46.00	-19.26	-24.72
6	13.56000	10.09	16.70	2.36	26.79	12.45	60.00	50.00	-33.21	-37.55

- 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.



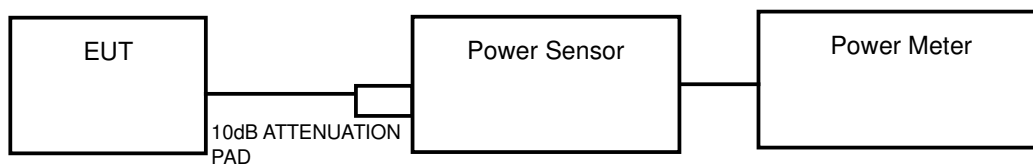
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

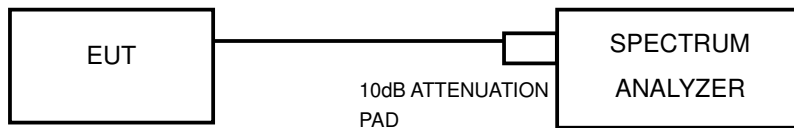
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client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

NOTE: 1. Where B is the 26dB emission bandwidth in MHz.

3.3.2 TEST SETUP



FOR 6/26dB BANDWIDTH



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Power Sensor	Keysight	U2021XA	MY55060016	May 09, 22
Power Sensor	Keysight	U2021XA	MY55060018	May 09, 22
Power Meter	Anritsu	ML2495A	1139001	Feb. 24, 22
Power Sensor	Anritsu	MA2411B	1531155	Feb. 24, 22
Digital Multimeter	FLUKE	15B	A1220010DG	N/A
Humid & Temp Programmable Tester	Haida	HD-225T	110807201	Nov. 03, 22
Oscilloscope	Agilent	DSO9254A	MY51260160	Aug. 11, 22
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV40	101094	Feb. 24, 22
Signal Generator	Agilent	N5183A	MY50140980	Mar 23, 22
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY56200288	Sep. 14, 22
Attenuator	MINI	BW-S10W2+	S130129FGE2	N/A
DC Source	Keysight	E3642A	MY56146098	N/A
Test software	ADT	ADT_RF Test Software V6.6.5.3	N/A	N/A

NOTES:

1. The test was performed in RF Oven room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

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

FOR 26dB BANDWIDTH

- 1) Set RBW = approximately 1% of the emission bandwidth.
- 2) Set the VBW > RBW.
- 3) Detector = RMS.
- 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%.

FOR 6dB BANDWIDTH

- 1) Set RBW = 100 kHz.
- 2) Set the video bandwidth (VBW) ≥ 3 RBW.
- 3) Detector = Peak.
- 4) Trace mode = max hold.
- 5) Sweep = auto couple.
- 6) Allow the trace to stabilize.
- 7) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



3.3.7 TEST RESULTS

OUTPUT POWER:

802.11a

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	19.12	81.658	24.00	PASS
40	5200	18.71	74.302	24.00	PASS
48	5240	18.23	66.527	24.00	PASS
52	5260	19.09	81.096	24.00	PASS
60	5300	18.12	64.863	24.00	PASS
64	5320	18.11	64.714	24.00	PASS
100	5500	9.79	9.528	24.00	PASS
116	5580	12.85	19.275	24.00	PASS
140	5700	14.51	28.249	24.00	PASS
149	5745	12.91	19.543	30.00	PASS
157	5785	12.89	19.454	30.00	PASS
165	5825	12.85	19.275	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

1. $11\text{dBm} + 10\log(20.68) = 24.16\text{ dBm} > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.27) = 24.07\text{ dBm} > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.22) = 24.06\text{ dBm} > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.71) = 24.37\text{ dBm} > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.50) = 24.32\text{dBm} > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.52) = 24.33\text{ dBm} > 24\text{dBm}$

802.11n(HT20)

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
36	5180	19.32	85.507	24.00	PASS
40	5200	18.87	77.09	24.00	PASS
48	5240	18.39	69.024	24.00	PASS
52	5260	18.34	68.234	24.00	PASS
60	5300	17.23	52.845	24.00	PASS
64	5320	17.26	53.211	24.00	PASS
100	5500	0.06	1.014	24.00	PASS
116	5580	13.15	20.654	24.00	PASS
140	5700	14.77	29.992	24.00	PASS
149	5745	13.19	20.845	30.00	PASS
157	5785	13.03	20.091	30.00	PASS
165	5825	13.05	20.184	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

$11\text{dBm} + 10\log(21.03) = 24.23\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(22.12) = 24.45\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(21.09) = 24.24\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(21.58) = 24.34\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(21.06) = 24.23\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(21.16) = 24.26\text{ dBm} > 24\text{dBm}$

802.11n(HT40)

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
38	5190	18.25	66.834	24.00	PASS
46	5230	17.76	59.704	24.00	PASS
54	5270	17.18	52.24	24.00	PASS
62	5310	16.07	40.458	24.00	PASS
102	5510	11.13	12.972	24.00	PASS
110	5550	13.27	21.232	24.00	PASS
134	5670	14.83	30.409	24.00	PASS
151	5755	12.97	19.815	30.00	PASS
159	5795	12.99	19.907	30.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

11dBm + 10log (49.50) = 27.95 dBm > 24dBm

11dBm + 10log (49.01) = 27.90 dBm > 24dBm

11dBm + 10log (45.51) = 27.58 dBm > 24dBm

11dBm + 10log (46.53) = 27.68 dBm > 24dBm

11dBm + 10log (45.82) = 27.61 dBm > 24dBm

802.11ac(VHT80)

CHANNEL NUMBER	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)	AVG. CONDUCTED POWER (mW)	LIMIT (dBm)	PASS /FAIL
42	5210	17.95	62.373	24.00	PASS
58	5290	14.78	30.061	24.00	PASS
106	5530	11.23	13.274	24.00	PASS
122	5610	14.09	25.645	24.00	PASS
155	5775	13.62	23.014	24.00	PASS

Note:

For 5260 ~ 5320MHz, 5500 ~ 5700MHz

$11\text{dBm} + 10\log(84.37) = 30.26\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(84.20) = 30.25\text{ dBm} > 24\text{dBm}$

$11\text{dBm} + 10\log(84.03) = 30.24\text{ dBm} > 24\text{dBm}$

26dB BANDWIDTH:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	20.37	PASS
40	5200	20.21	PASS
48	5240	20.95	PASS
52	5260	20.68	PASS
60	5300	20.27	PASS
64	5320	20.22	PASS
100	5500	21.71	PASS
116	5580	21.50	PASS
140	5700	21.52	PASS

802.11n(HT20)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
36	5180	21.22	PASS
40	5200	21.20	PASS
48	5240	21.12	PASS
52	5260	21.03	PASS
60	5300	22.12	PASS
64	5320	21.09	PASS
100	5500	21.58	PASS
116	5580	21.06	PASS
140	5700	21.16	PASS

802.11n(HT40)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
38	5190	50.17	PASS
46	5230	49.10	PASS
54	5270	49.50	PASS
62	5310	49.01	PASS
102	5510	45.51	PASS
110	5550	46.53	PASS
134	5670	45.82	PASS

802.11ac(VHT80)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)	PASS /FAIL
42	5210	96.39	PASS
58	5290	84.37	PASS
106	5530	84.20	PASS
122	5610	84.03	PASS

6dB BANDWIDTH For 5725-5850MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	16.45	PASS
157	5785	16.44	PASS
165	5825	16.43	PASS

802.11n (HT20)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
149	5745	17.63	PASS
157	5785	17.63	PASS
165	5825	17.63	PASS

802.11n (HT40)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
151	5755	35.95	PASS
159	5795	35.95	PASS

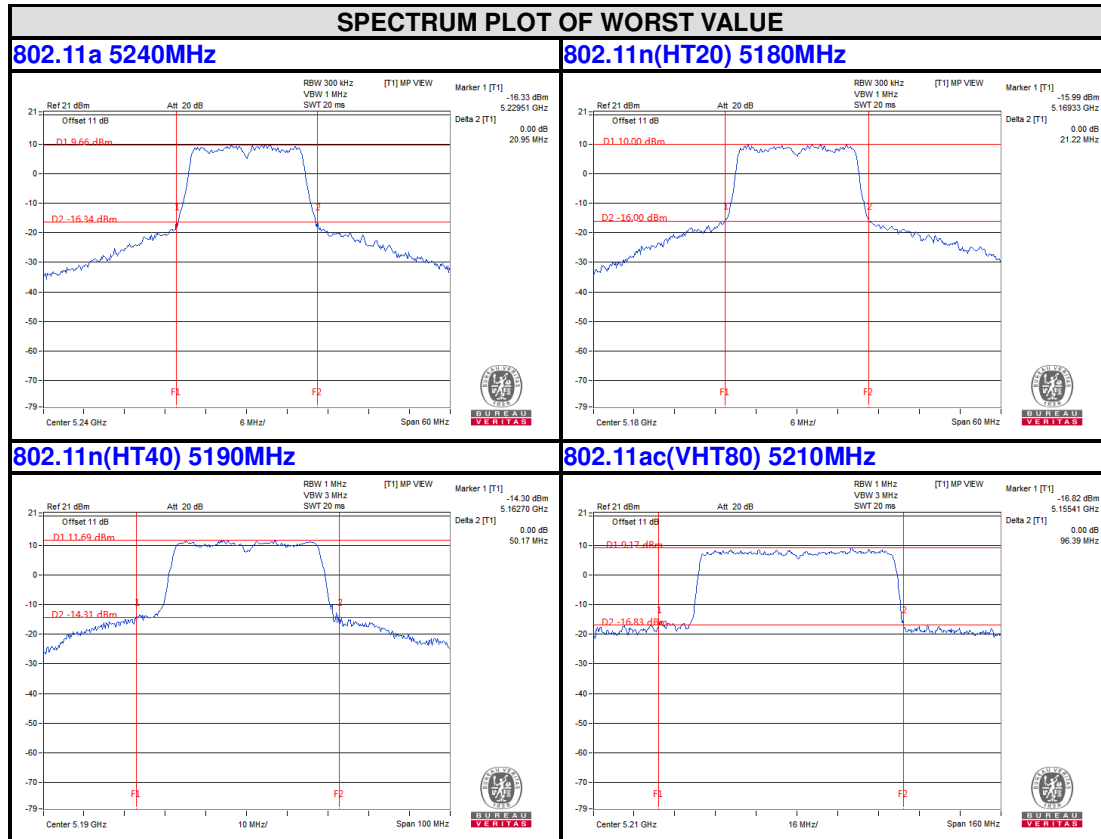
802.11ac(VHT80)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)	PASS /FAIL
155	5775	76.45	PASS



Test Report No.: RF2112WDG3089-3

26dB bandwidth Test Plot For 5150-5250MHz

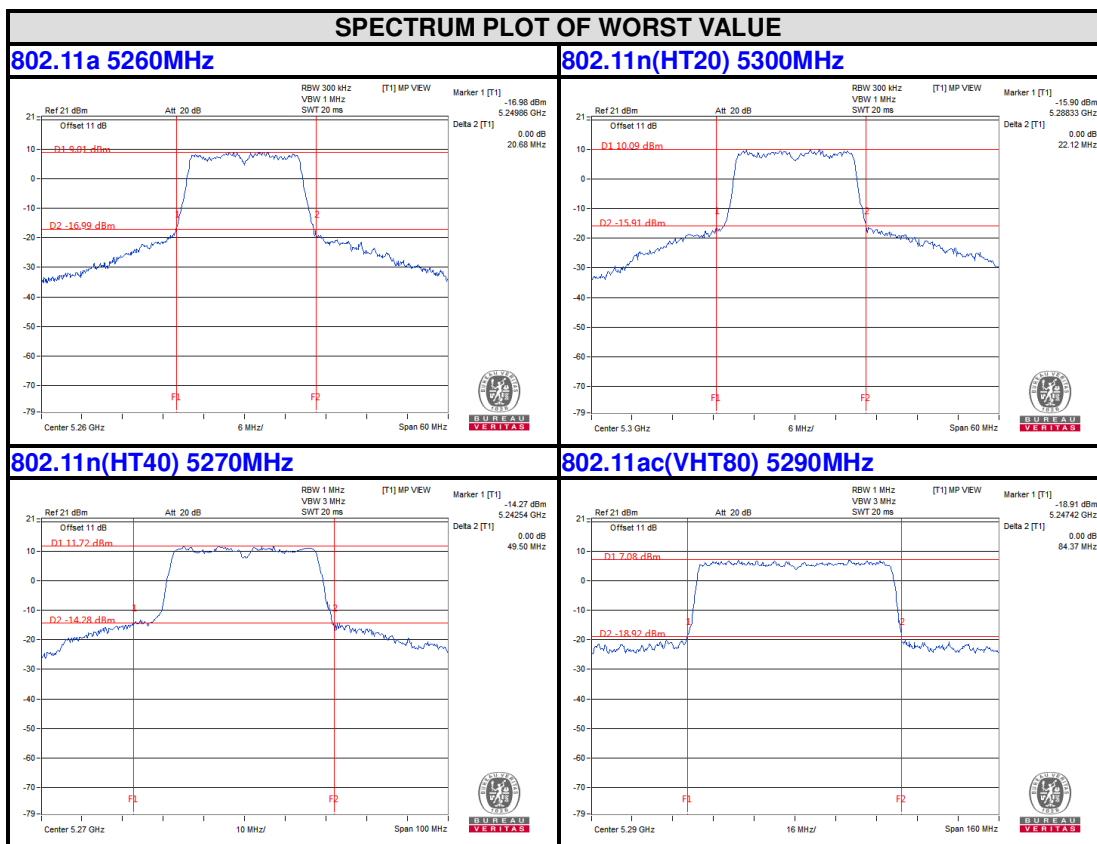


Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

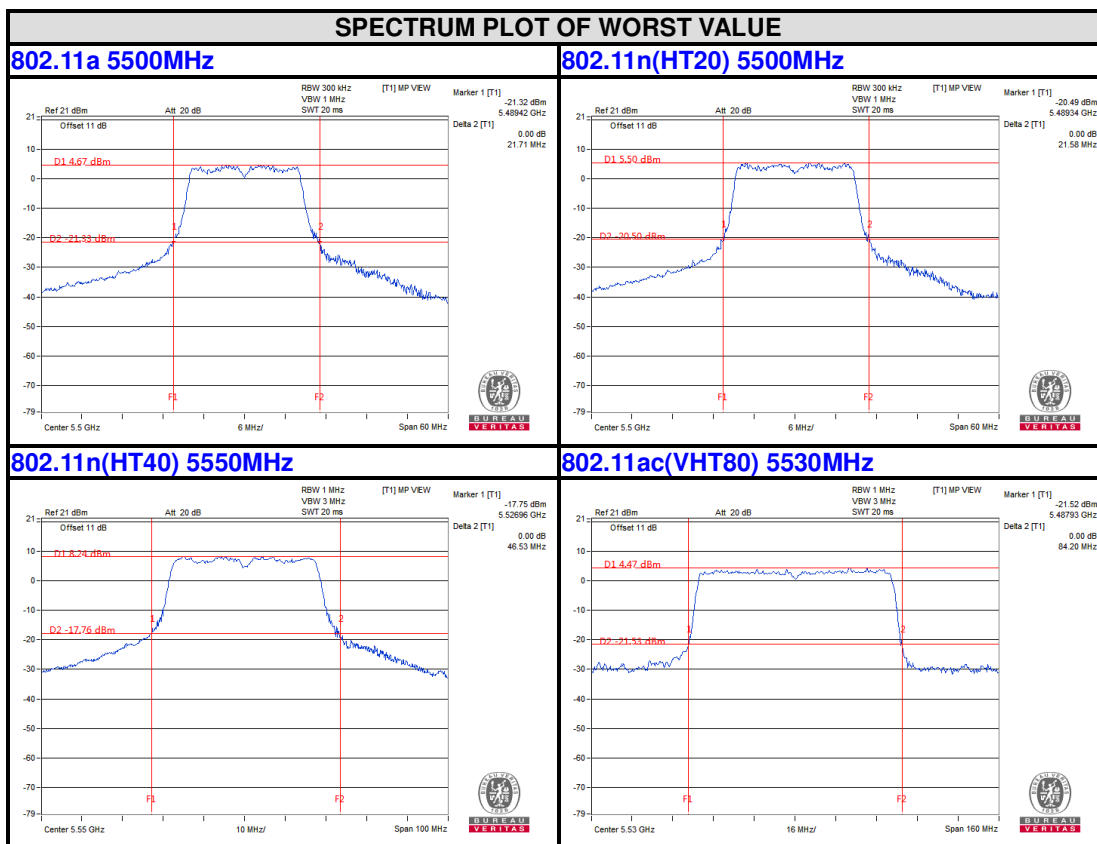
No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@bureauveritas.com

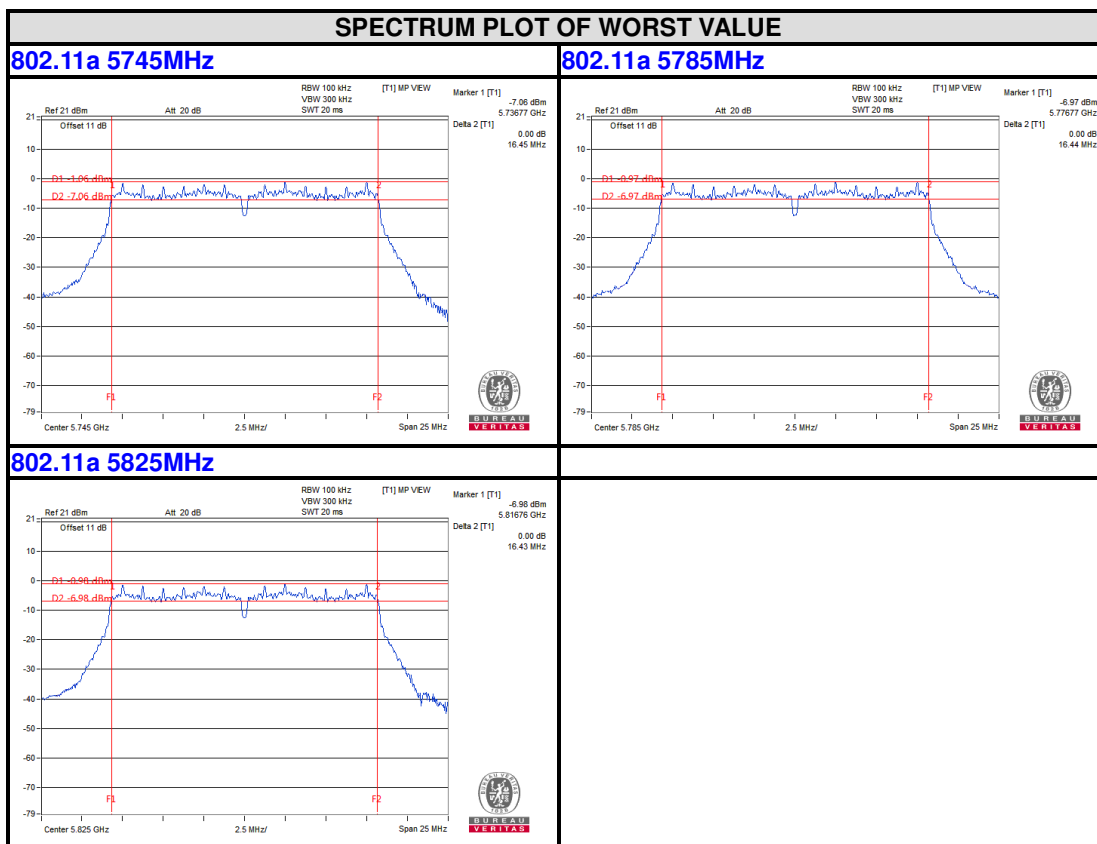
For 5250-5350MHz

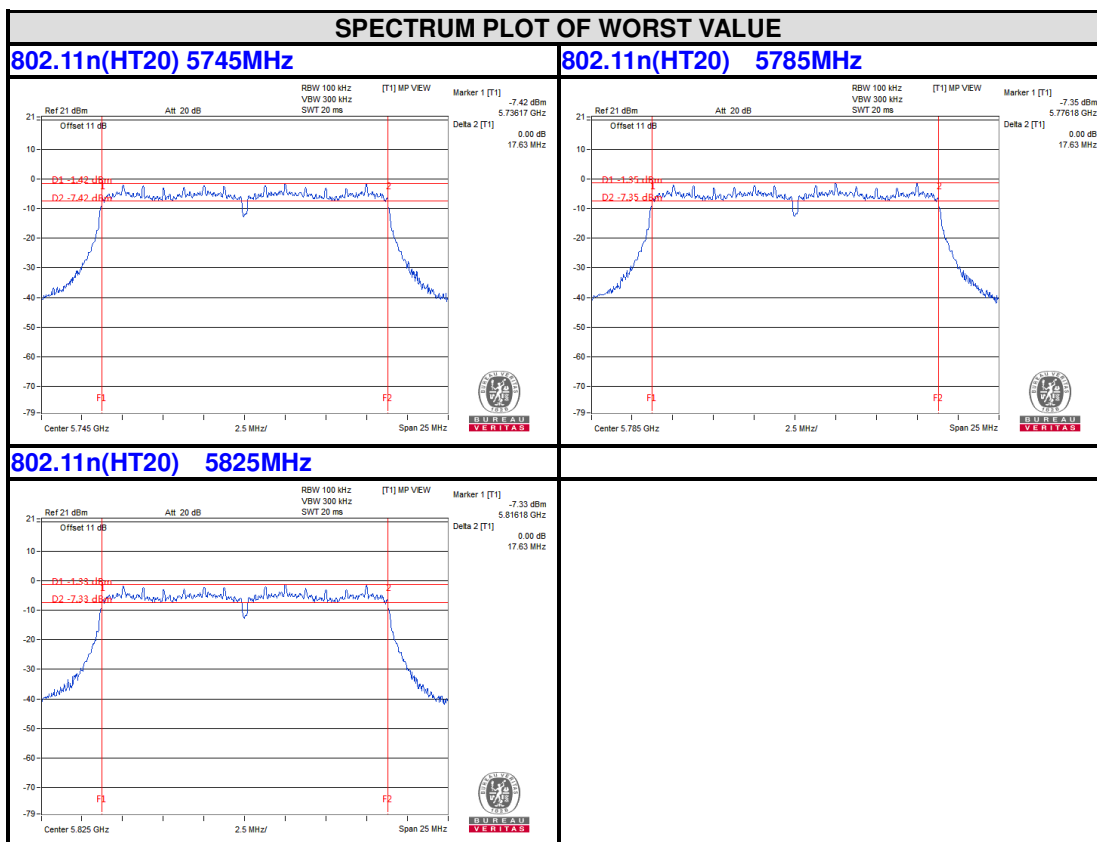


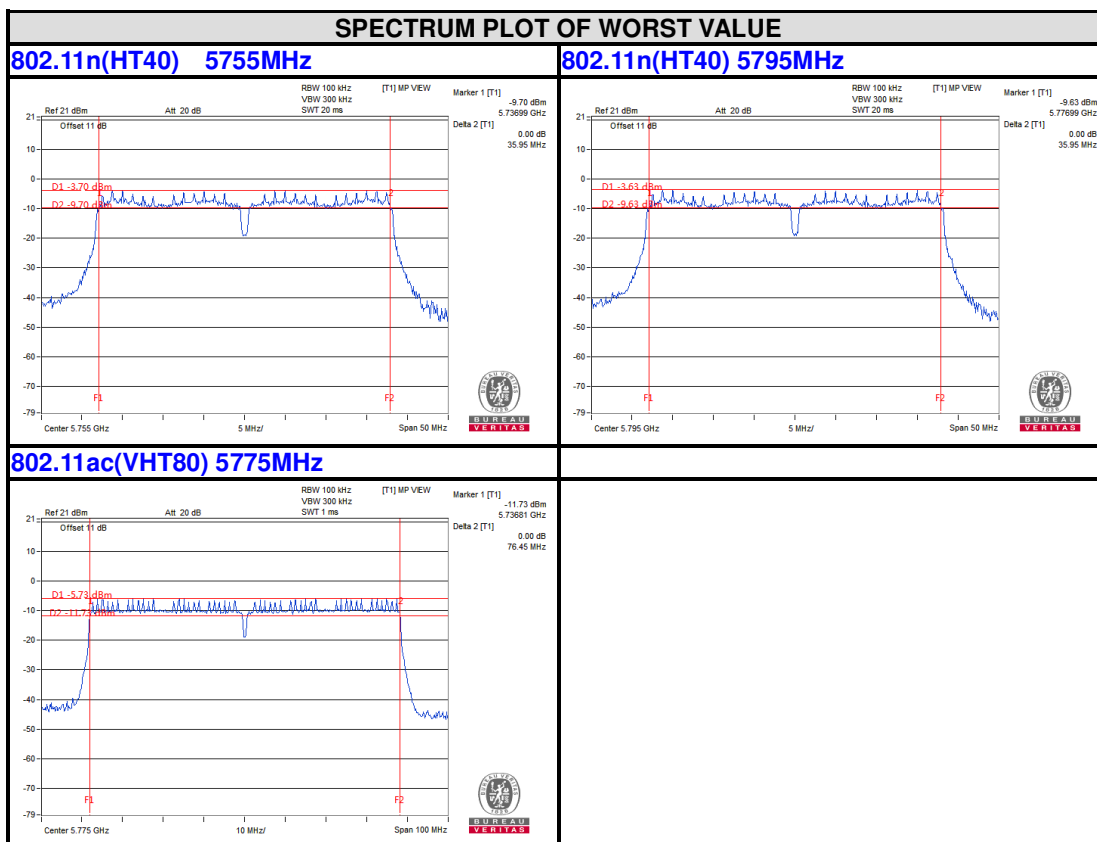
For 5470-5725MHz



6dB BANDWIDTH For 5725-5850MHz





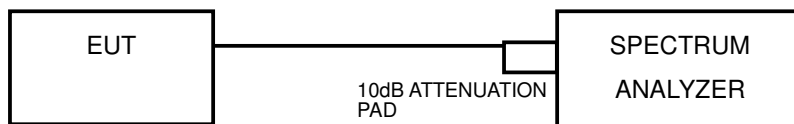


3.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

3.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

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

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

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

For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 300 kHz, Set VBW = 1 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 EUT OPERATING CONDITIONS

Same as 3.3.6

3.4.7 TEST RESULTS

For U-NII-1, U-NII-2A & U-NII-2C, For U-NII-3:
802.11a

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
36	5180	5.31	0	5.31	11.00	PASS
40	5200	5.33	0	5.33	11.00	PASS
48	5240	5.31	0	5.31	11.00	PASS
52	5260	6.26	0	6.26	11.00	PASS
60	5300	6.21	0	6.21	11.00	PASS
64	5320	6.18	0	6.18	11.00	PASS
100	5500	0.79	0	0.79	11.00	PASS
116	5580	0.70	0	0.70	11.00	PASS
140	5700	0.39	0	0.39	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/500kHz)	MAX. Limit (dBm/500kHz)	PASS / FAIL
149	5745	-4.22	0	-4.22	30.00	PASS
157	5785	-4.21	0	-4.21	30.00	PASS
165	5825	-4.13	0	-4.13	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

802.11n(HT20)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
36	5180	5.22	0	5.22	11.00	PASS
40	5200	5.22	0	5.22	11.00	PASS
48	5240	5.22	0	5.22	11.00	PASS
52	5260	5.18	0	5.18	11.00	PASS
60	5300	5.13	0	5.13	11.00	PASS
64	5320	5.16	0	5.16	11.00	PASS
100	5500	0.76	0	0.76	11.00	PASS
116	5580	0.64	0	0.64	11.00	PASS
140	5700	0.36	0	0.36	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/500kHz)	MAX. Limit (dBm/500kHz)	PASS / FAIL
149	5745	-4.33	0	-4.33	30.00	PASS
157	5785	-4.26	0	-4.26	30.00	PASS
165	5825	-4.27	0	-4.27	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

802.11n(HT40)

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
38	5190	1.37	0	1.37	11.00	PASS
46	5230	1.34	0	1.34	11.00	PASS
54	5270	1.26	0	1.26	11.00	PASS
62	5310	1.27	0	1.27	11.00	PASS
102	5510	-2.23	0	-2.23	11.00	PASS
118	5590	-2.78	0	-2.78	11.00	PASS
134	5670	-2.97	0	-2.97	11.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/500kHz)	MAX. Limit (dBm/500kHz)	PASS / FAIL
151	5755	-7.21	0	-7.21	30.00	PASS
159	5795	-6.95	0	-6.95	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

802.11ac(VHT80)

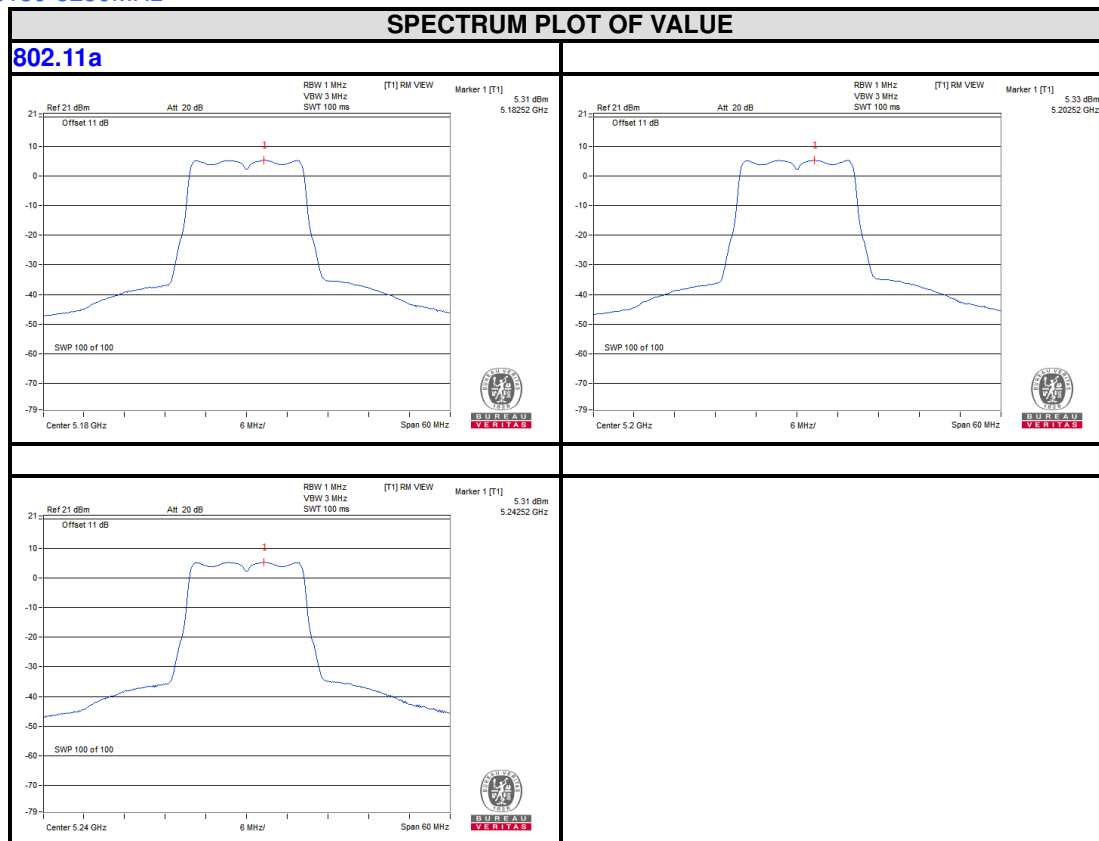
Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/MHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/MHz)	MAX. Limit (dBm)	PASS / FAIL
42	5210	-2.35	0	-2.35	11.00	PASS
58	5290	-4.58	0	-4.58	11.00	PASS
106	5530	-6.90	0	-6.90	11.00	PASS
122	5610	-6.86	0	-6.86	11.00	PASS

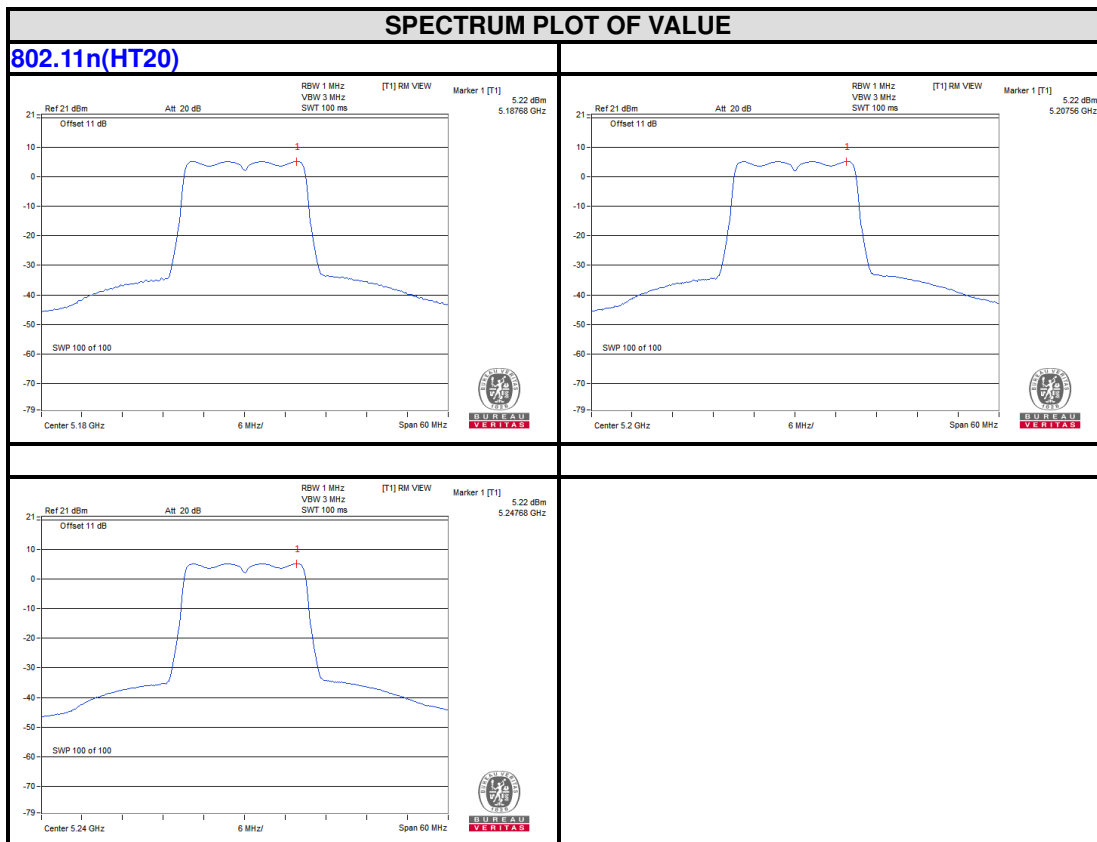
Note: Refer to section 2.3 for duty cycle spectrum plot.

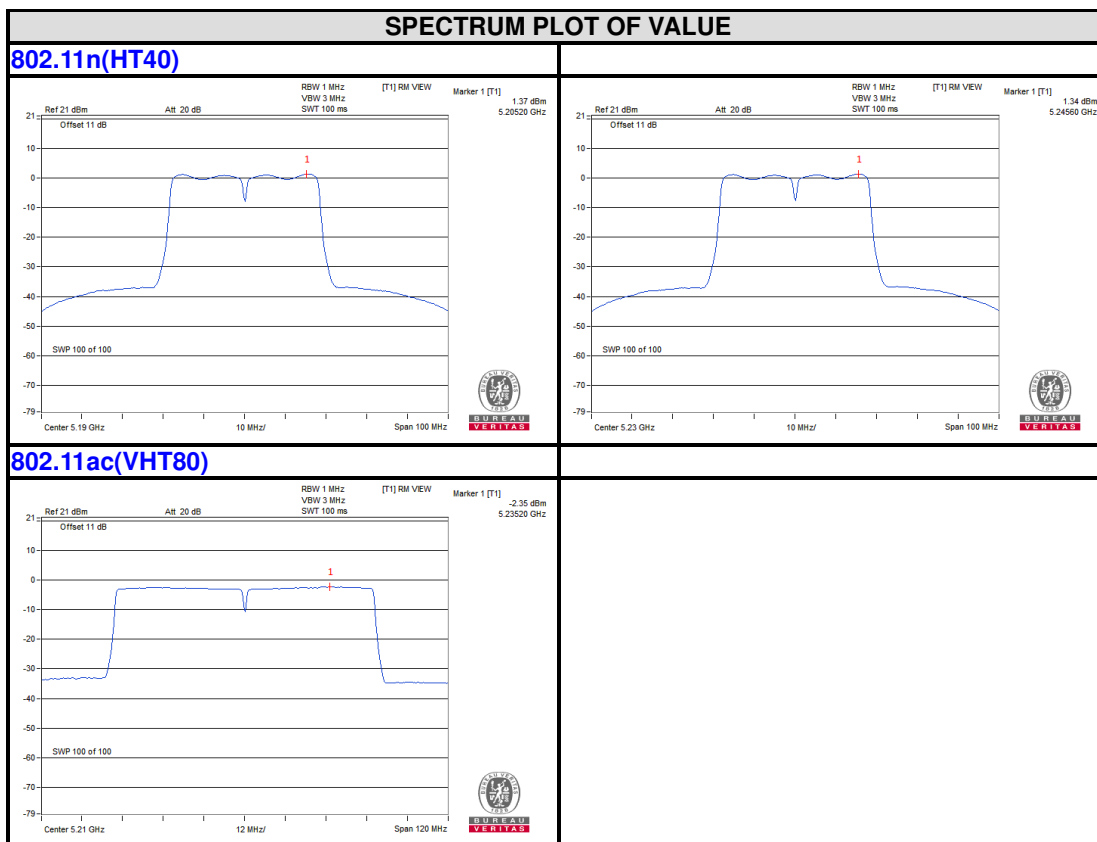
Channel	Frequency (MHz)	PSD W/O Duty Factor (dBm/500kHz)	Duty Factor (dB)	PSD with Duty Factor (dBm/500kHz)	MAX. Limit (dBm/500kHz)	PASS / FAIL
155	5775	-10.17	0	-10.17	30.00	PASS

Note: Refer to section 2.3 for duty cycle spectrum plot.

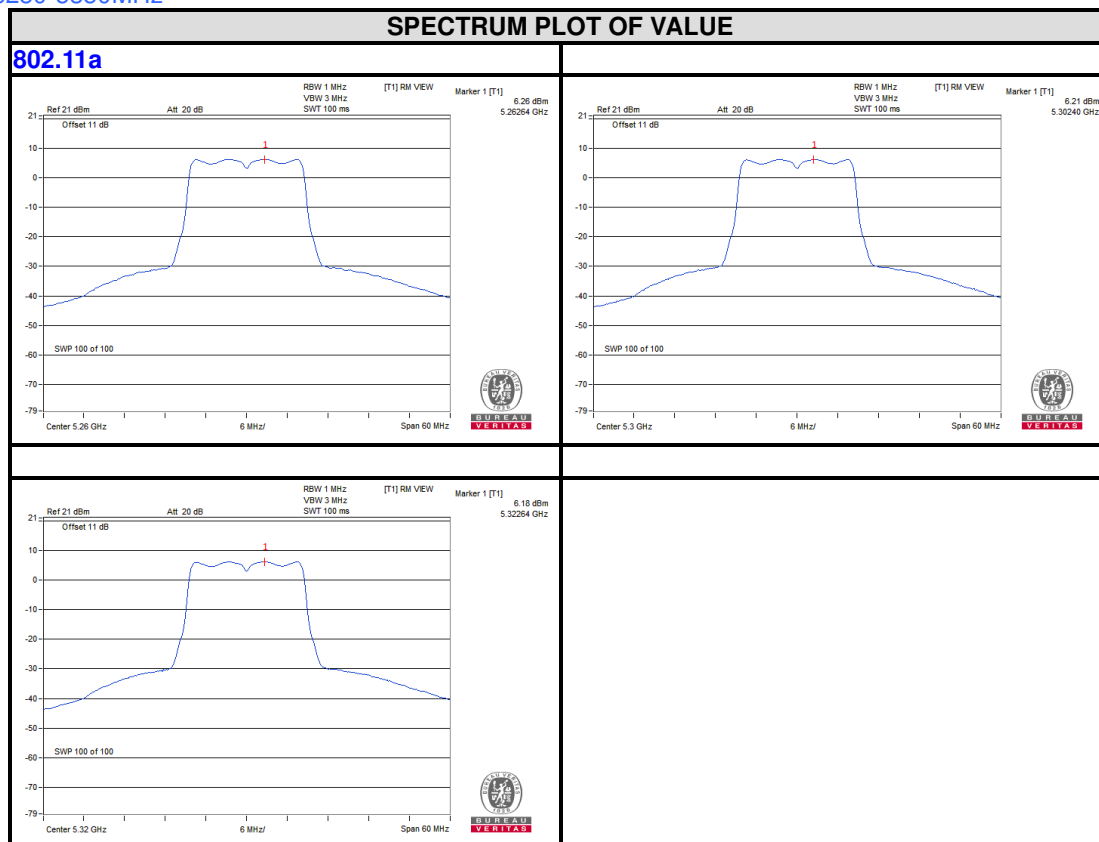
PSD Test Plot
BAND 1
5150-5250MHz

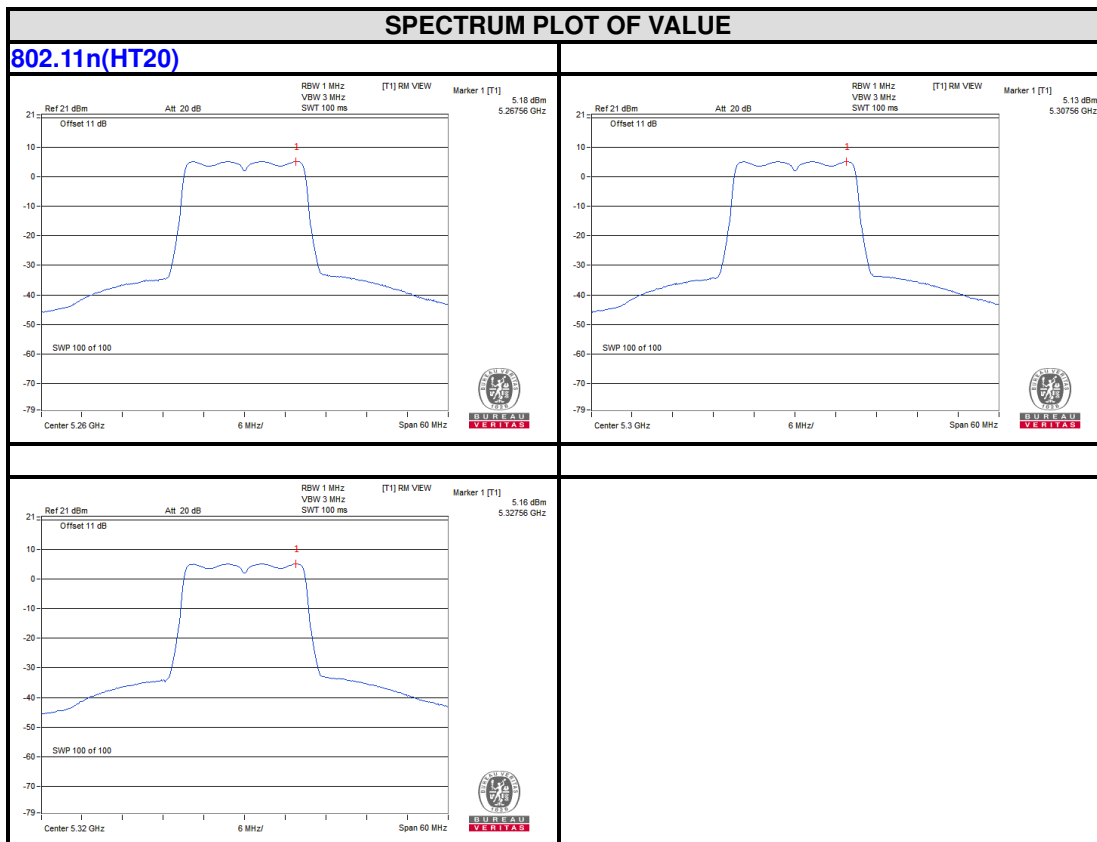






BAND 2
5250-5350MHz

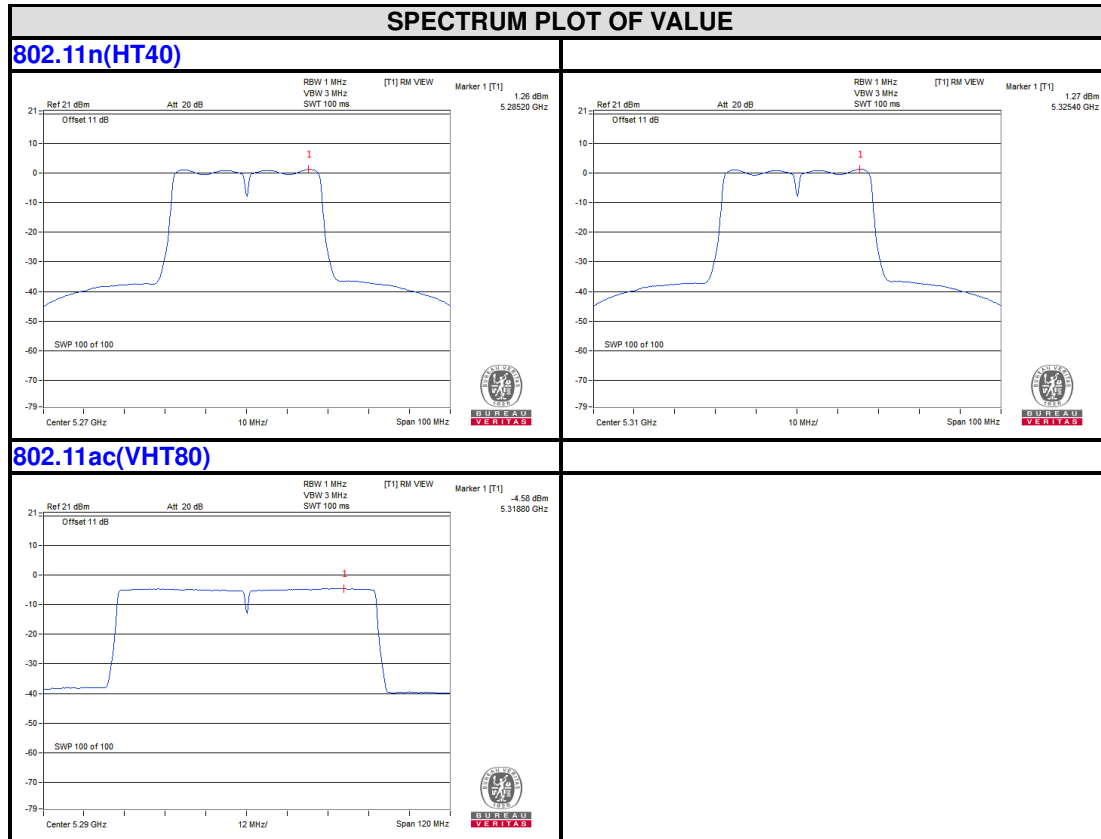






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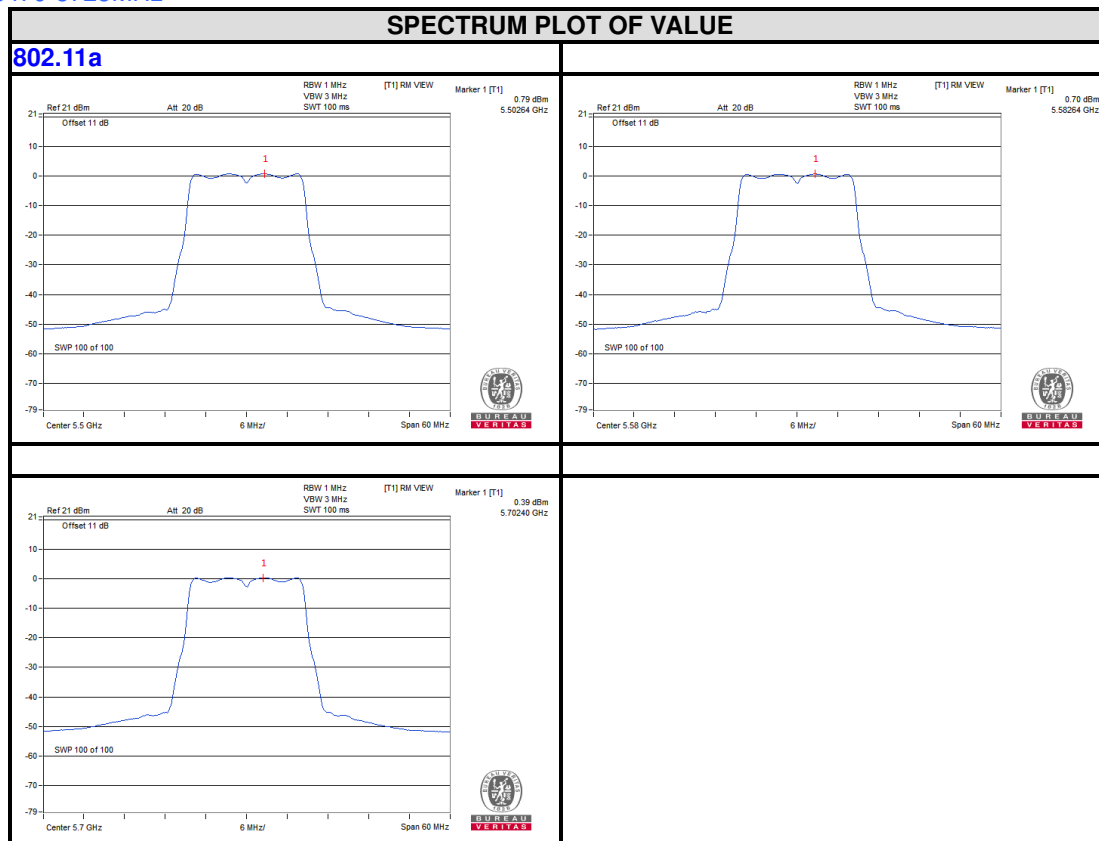


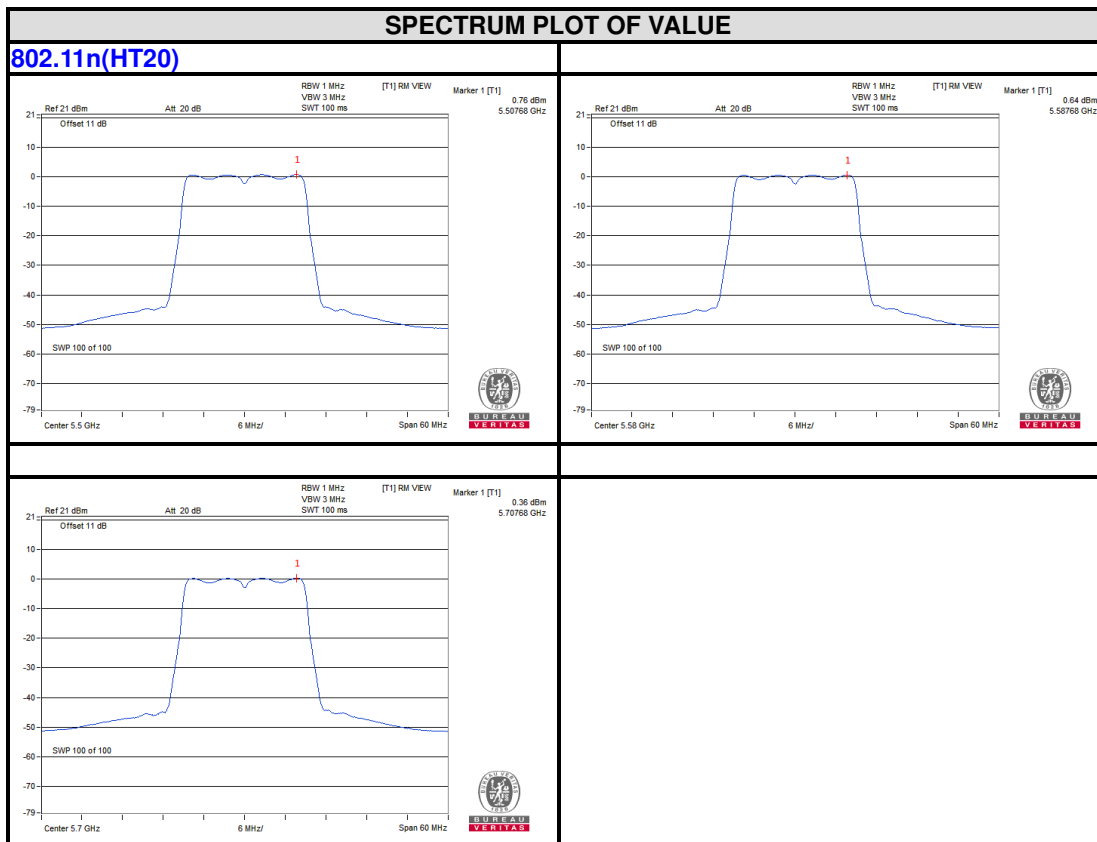
Bureau Veritas Shenzhen Co., Ltd.
Dongguan Branch

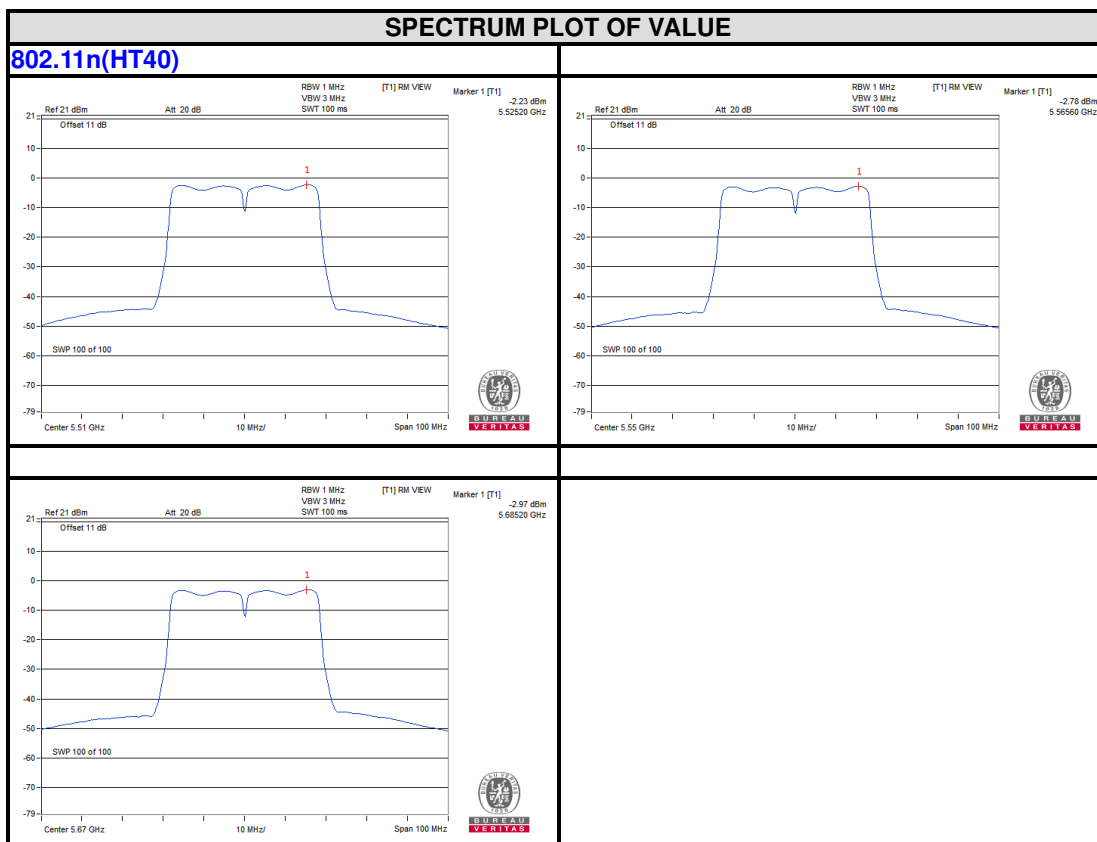
No. 96, Guantai Road (Houjie Section), Houjie
Town, Dongguan City, Guangdong Province.
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Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@bureauveritas.com

BAND 3
5470-5725MHz



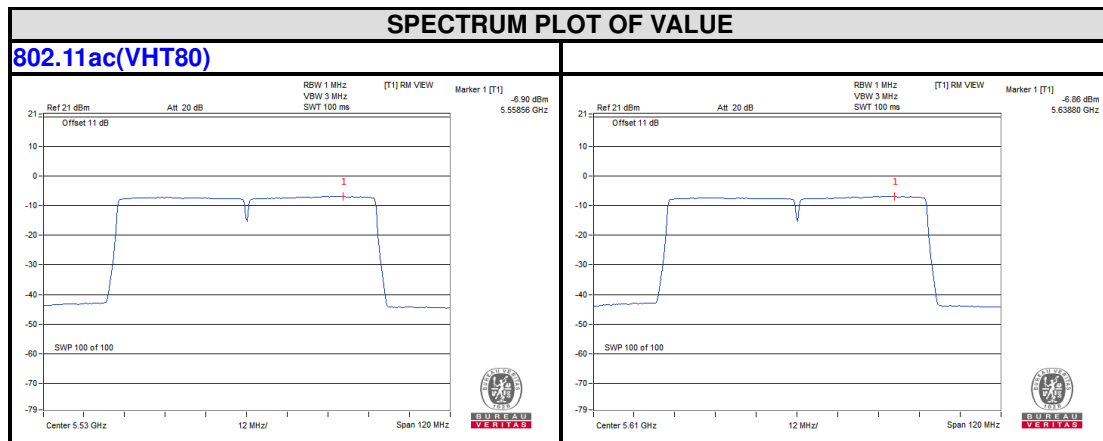






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Dongguan Branch

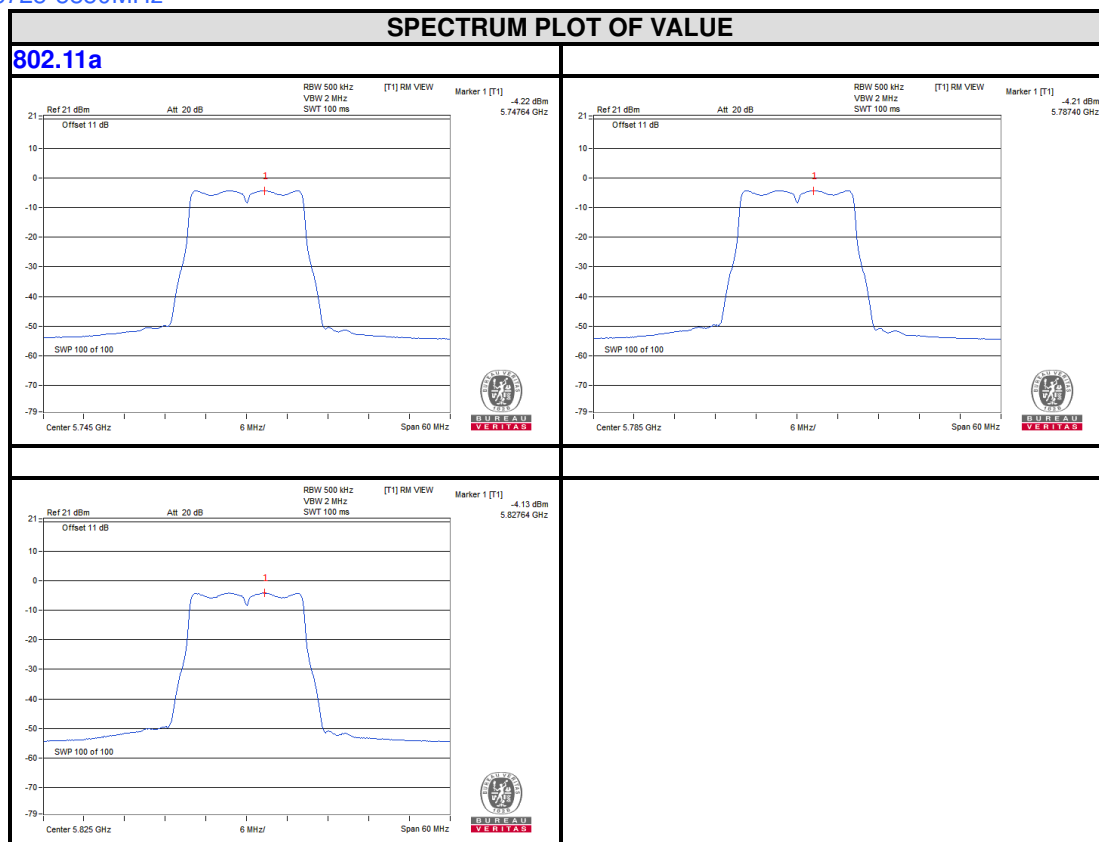
No. 96, Guantai Road (Houjie Section), Houjie
Town, Dongguan City, Guangdong Province.
523942. People's Republic of China.

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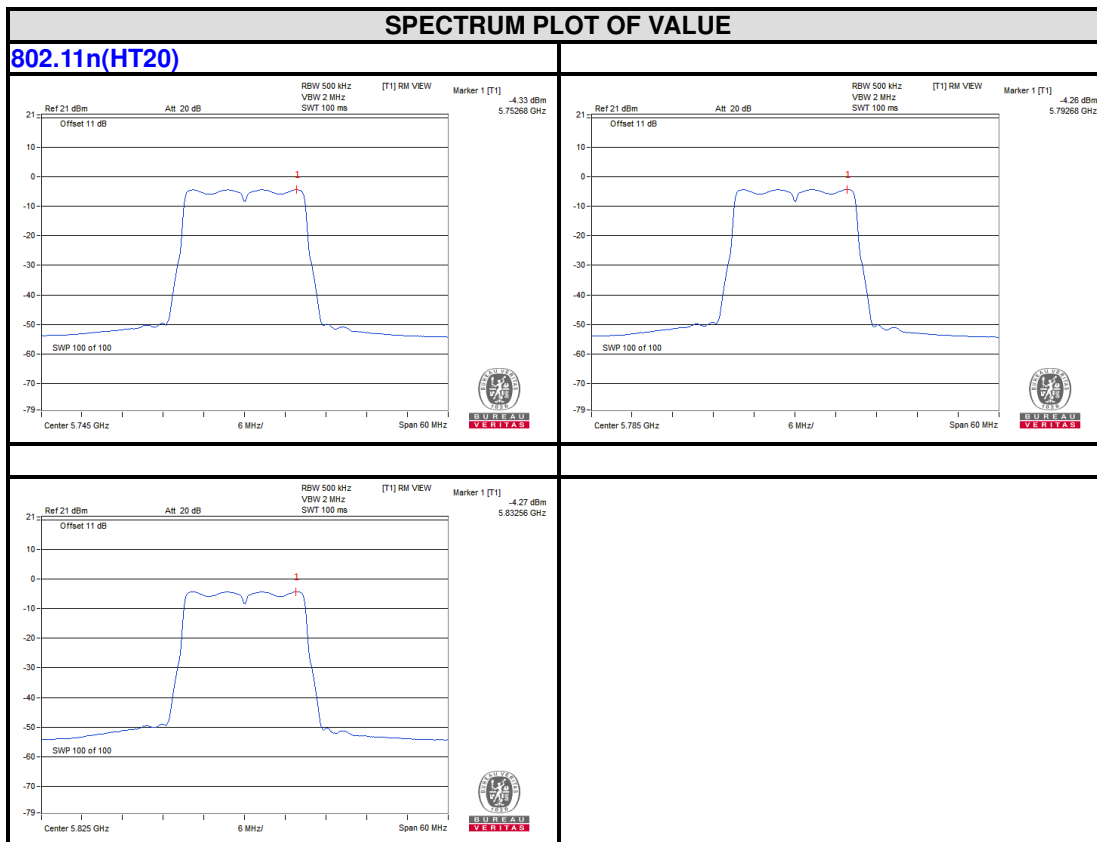
BAND4
5725-5850MHz



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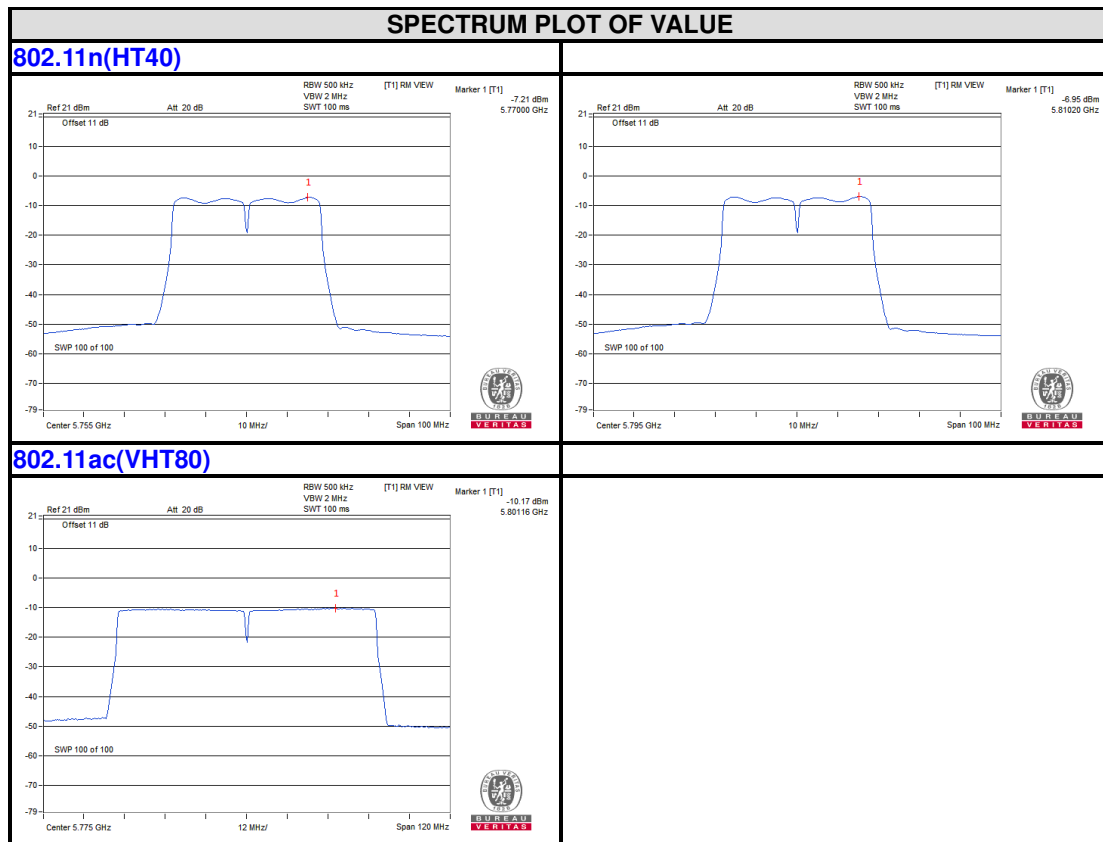
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523942. People's Republic of China.

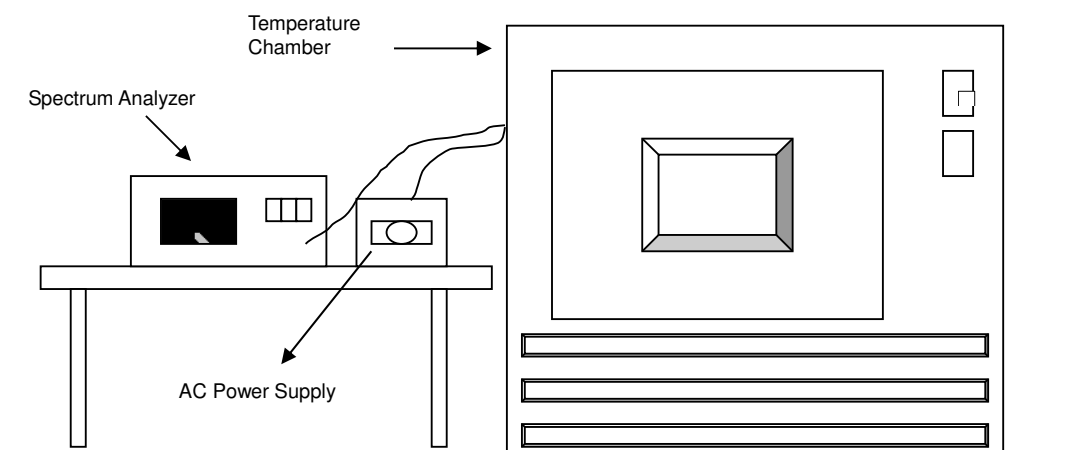
Tel: +86 769 8998 2098
Fax: +86 769 8593 1080
Email: customerservice.dg@bureauveritas.com

3.5 FREQUENCY STABILITY

3.5.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

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

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.

3.5.6 EUT OPERATING CONDITION

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

3.5.7 TEST RESULTS

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
50	120	5179.9922	-0.00015	5179.9902	-0.00019	5179.9902	-0.00019	5179.991	-0.00017
40	120	5180.0009	0.00002	5179.9966	-0.00007	5180.0008	0.00002	5179.9988	-0.00002
30	120	5180.0087	0.00017	5180.0078	0.00015	5180.0066	0.00013	5180.0068	0.00013
20	120	5179.9973	-0.00005	5179.9981	-0.00004	5179.9979	-0.00004	5179.999	-0.00002
10	120	5180.0018	0.00003	5180.0017	0.00003	5179.9989	-0.00002	5179.9995	-0.00001
0	120	5179.9963	-0.00007	5179.9966	-0.00007	5179.9992	-0.00002	5179.9959	-0.00008
-10	120	5180.003	0.00006	5180.0044	0.00008	5180.0038	0.00007	5180.0012	0.00002
-20	120	5180.0232	0.00045	5180.0226	0.00044	5180.025	0.00048	5180.0235	0.00045
-30	120	5180.0222	0.00043	5180.0196	0.00038	5180.0242	0.00047	5180.0239	0.00046

FREQUENCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
20	138	5179.9968	-0.00006	5179.9972	-0.00005	5179.9974	-0.00005	5179.9989	-0.00002
	120	5179.9973	-0.00005	5179.9981	-0.00004	5179.9979	-0.00004	5179.999	-0.00002
	102	5179.9977	-0.00004	5179.9982	-0.00003	5179.9981	-0.00004	5179.998	-0.00004



Test Report No.: RF2112WDG3089-3

4. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



Test Report No.: RF2112WDG3089-3

5. APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

---END---