Certificate # 2951.01

TEST REPORT

Applicant	BenQ Corporation
Address	16 Jihu Road, Neihu, Taipei 114, Taiwan

Manufacturer or Supplier	BenQ Corporation
Address	16 Jihu Road, Neihu, Taipei 114, Taiwan
Product Name	Wireless USB Adapter
Brand Name	BenQ
Model	WD02AT
Additional Model & Model Difference	N/A
Date of tests	Jun. 13, 2022 ~ Jul. 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: Sep. 16, 2022

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF2206WDG0112-3	Original release.	Sep. 16, 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(e)	6dB bandwidth	PASS	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.
15.203	Antenna Requirement	PASS	No antenna connector is used

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	3.82dB
	1GHz ~ 18GHz	4.94dB
	18GHz ~ 40GHz	5.07dB

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 NAME	Wireless USB Adapter
MODEL NO.	WD02AT
FCC ID	JVPWD02AT
POWER SUPPLY	DC 5V From USB host unit
MODULATION TECHNOLOGY	OFDM, OFDMA
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
TRANSFER RATE	Refer to user's manual
OPERATING FREQUENCY	5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, 5745 ~ 5825MHz
NUMBER OF CHANNEL	See section 2.2
CONDUCTED OUTPUT POWER	22.646 mW for 5150 ~ 5250MHz (Maximum AVG Power) 22.856 mW for 5250 ~ 5350MHz (Maximum AVG Power) 24.491 mW for 5470 ~ 5725MHz (Maximum AVG Power) 16.293 mW for 5725 ~ 5850MHz (Maximum AVG Power)
ANTENNA TYPE	5180 ~ 5240MHz: Sheet metal Antenna with 2.22dBi gain 5260 ~ 5320MHz: Sheet metal Antenna with 2.22dBi gain 5500 ~ 5700MHz: Sheet metal Antenna with 2.12dBi gain 5745 ~ 5825MHz: Sheet metal Antenna with 2.12dBi gain
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	N/A

NOTES:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.
3. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitter and 2 receiver.

MODULATION MODE	TX FUNCTION
802.11a	2TX
802.11n(HT20)/ac(VHT20)/ax(HE20)	2TX
802.11n(HT40)/ac(VHT40)/ax(HE40)	2TX
802.11ac(VHT80)/ax(HE80)	2TX

** 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. (Final test mode refer section 2.2.1)*

4. Please refer to the EUT photo document (Reference No.: 2206WDG0112) for detailed product photo.

5. ANTENNA LIST

Ant. No.	Antenna Type	Connector Type	Peak Gain(dBi)			
			U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
Chain 0	Sheet metal	Internal	2.22	2.22	2.12	2.12
Chain 1	Sheet metal	Internal	2.22	2.22	2.12	2.12
Directional Gain for PSD			5.23	5.23	5.13	5.13
Directional Gain for power			2.22	2.22	2.12	2.12

The directional gain calculation is following F)2)f)i) of KDB 662911 D01 Multiple Transmitter Output v02r01

All Wi-Fi antennas have the same gain, Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices, Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices, Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4

2.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	46	5230 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
42	5210MHz	--	--

FOR 5250 ~ 5350MHz

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

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), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
54	5270 MHz	62	5310 MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
58	5290MHz	--	--

FOR 5470 ~ 5725MHz

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

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), 802.11ax (HE40):

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

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
106	5530MHz	122	5610MHz

FOR 5725 ~ 5850MHz

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

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), 802.11ax (HE40):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
151	5755MHz	159	5795MHz

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

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
155	5775MHz	--	--

2.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	**Powered by Notebook with Wi-Fi(5G) Function**

Where **RE≥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
	802.11n(VHT80)		42	42	OFDM	BPSK	MCS0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	BPSK	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	BPSK	MCS0
	802.11ax (HE80)		42	42	OFDMA	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
	802.11n(VHT80)		58	58	OFDM	BPSK	MCS0
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	BPSK	MCS0
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	BPSK	MCS0
	802.11ax (HE80)		58	58	OFDMA	BPSK	MCS0
	802.11a	5470-5725	100 to 140	100, 116, 140	OFDM	BPSK	6.0
	802.11n(HT20)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
	802.11n(HT40)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11n(VHT80)		106, 122	106, 122	OFDM	BPSK	MCS0
	802.11ax (HE20)		100 to 140	100, 116, 140	OFDMA	BPSK	MCS0
	802.11ax (HE40)		102 to 134	102, 110, 134	OFDMA	BPSK	MCS0
	802.11ax (HE80)		106, 122	106, 122	OFDMA	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
	802.11n(VHT80)		155	155	OFDM	BPSK	MCS0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0

	802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

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 5250-5350 5470-5725 5725-5850	36 to 48 52 to 64 100 to 140 149 to 165	36	OFDM	BPSK	6.0

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 5250-5350 5470-5725 5725-5850	36 to 48 52 to 64 100 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
	802.11n(VHT80)		42	42	OFDM	BPSK	MCS0
	802.11ax (HE20)		36 to 48	36, 40, 48	OFDMA	BPSK	MCS0
	802.11ax (HE40)		38 to 46	38, 46	OFDMA	BPSK	MCS0
	802.11ax (HE80)		42	42	OFDMA	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
	802.11n(VHT80)		58	58	OFDM	BPSK	MCS0
	802.11ax (HE20)		52 to 64	52, 60, 64	OFDMA	BPSK	MCS0
	802.11ax (HE40)		54 to 62	54, 62	OFDMA	BPSK	MCS0
	802.11ax (HE80)		58	58	OFDMA	BPSK	MCS0
	802.11a	5470-5725	100 to 140	100, 116, 140	OFDM	BPSK	6.0
	802.11n(HT20)		100 to 140	100, 116, 140	OFDM	BPSK	MCS0
	802.11n(HT40)		102 to 134	102, 110, 134	OFDM	BPSK	MCS0
	802.11n(VHT80)		106, 122	106, 122	OFDM	BPSK	MCS0
	802.11ax (HE20)		100 to 140	100, 116, 140	OFDMA	BPSK	MCS0
	802.11ax (HE40)		102 to 134	102, 110, 134	OFDMA	BPSK	MCS0
	802.11ax (HE80)		106, 122	106, 122	OFDMA	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
	802.11n(VHT80)		155	155	OFDM	BPSK	MCS0
	802.11ax (HE20)		149 to 165	149, 157, 165	OFDMA	BPSK	MCS0
	802.11ax (HE40)		151 to 159	151, 159	OFDMA	BPSK	MCS0
	802.11ax (HE80)		155	155	OFDMA	BPSK	MCS0

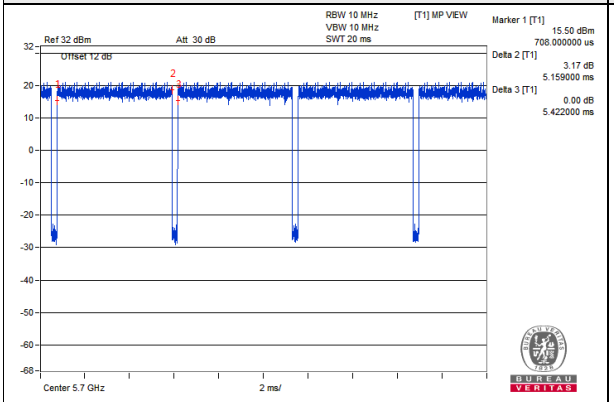
TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE<1G	24deg. C, 55%RH	DC 5V from Notebook	Jelly
RE≥1G	24deg. C, 55%RH	DC 5V from Notebook	Jelly
PLC	20deg. C, 56%RH	DC 5V from Notebook	Ming Bai
APCM	20deg. C, 55%RH	DC 5V from Notebook	Vincent

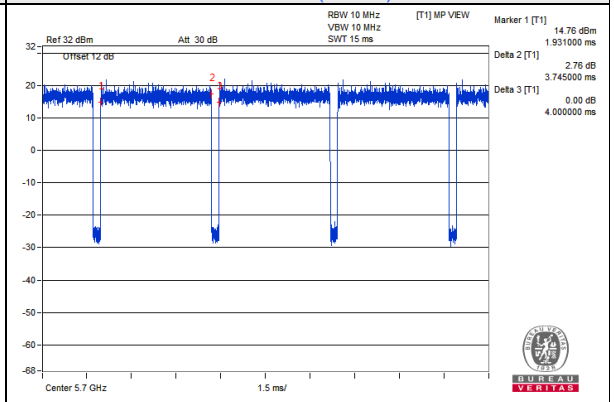
2.3 DUTY CYCLE OF TEST SIGNAL

MODE	ON Time (ms)	ON+OFF Time (ms)	Duty cycle	Duty factor
802.11a	5.159	5.422	0.951	0.216
802.11n (HT20)	3.745	4.000	0.936	0.286
802.11n (HT40)	5.362	5.632	0.952	0.213
802.11ac (VHT80)	2.500	2.755	0.907	0.422
802.11ax (HE20)	3.777	4.054	0.932	0.307
802.11ax (HE40)	4.706	4.971	0.947	0.238
802.11ax (HE80)	2.278	2.533	0.899	0.461

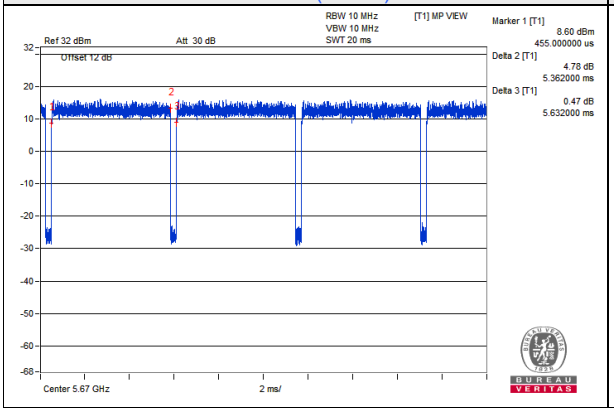
802.11a



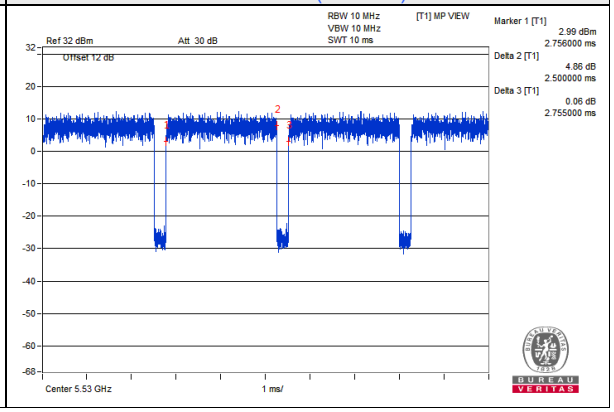
802.11n (HT20)



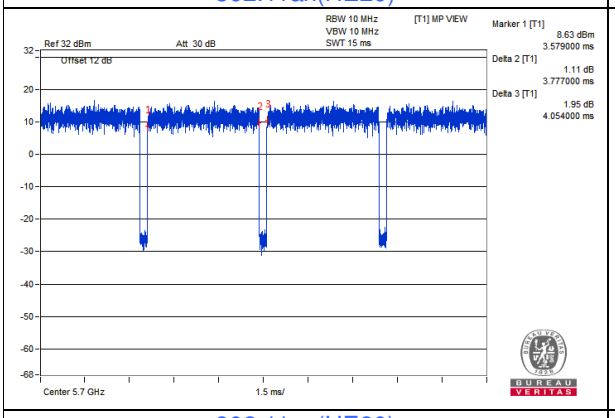
802.11n (HT40)



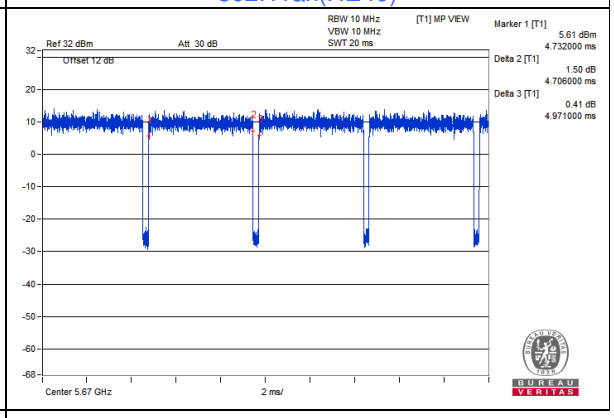
802.11ac (VHT80)



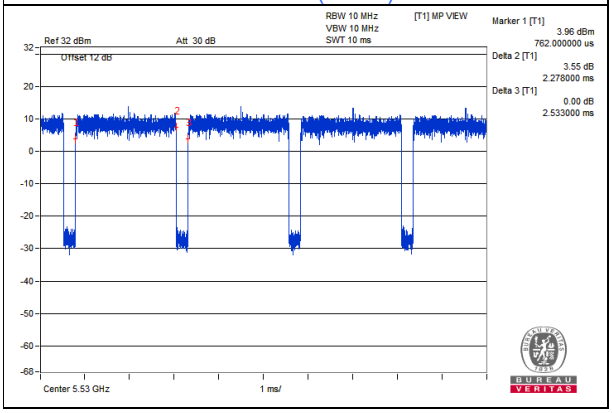
802.11ax(HE20)



802.11ax(HE40)



802.11ax(HE80)



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	Notebook	HP	4431s	CNU238944Z	N/A
2	Notebook	ALIENWARE	ALIENWARE 13 R2	2015AP3711	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1, 2	AC Line: Unshielded, Detachable 0.8m, DC Line: Unshielded, Detachable 1.8m

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)
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output 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

NOTE:
1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 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 v01r03	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:

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

3.1.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESU40	100449	Feb. 22, 23
Signal and Spectrum Analyzer	Rohde&Schwarz	FSV7	102331	May 09, 23
Active Loop Antenna (9KHz -30MHz)	SCHWARZBECK	FMZB 1519B	1519B-045	May 20, 23
Amplifier (9KHz -1GHz)	Burgeon	BPA-530	100210	Mar. 08, 23
Trilog-Broadband Antenna(20M-2G)	SCHWARZBECK	VULB 9168	01263	Sep. 30, 22
Horn Antenna (1GHz -18GHz)	ETS -Lindgren	3117	00062558	May 21, 23
Horn Antenna (18GHz -40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170147	May 14, 23
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	NSEMC003	May 22, 23
Broadband Preamplifier (1GHz~18GHz)	SCHWARZBECK	BBV9718	305	May 12, 23
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, 24 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 above1GHz 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:

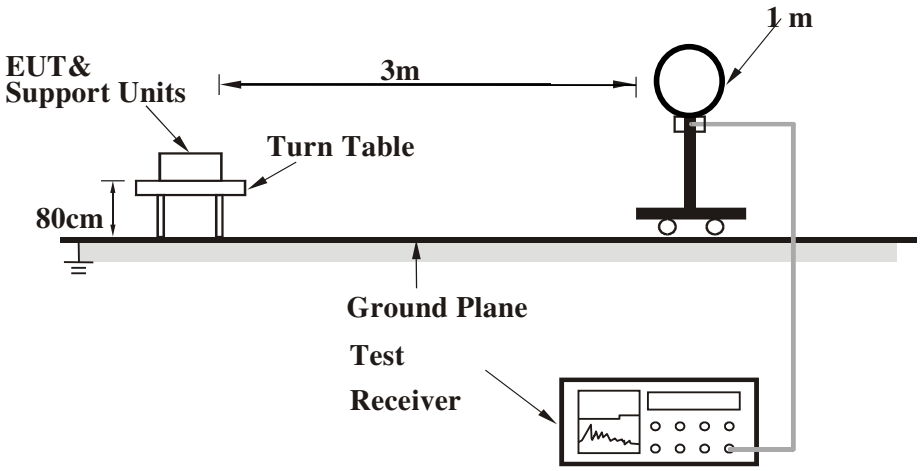
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 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

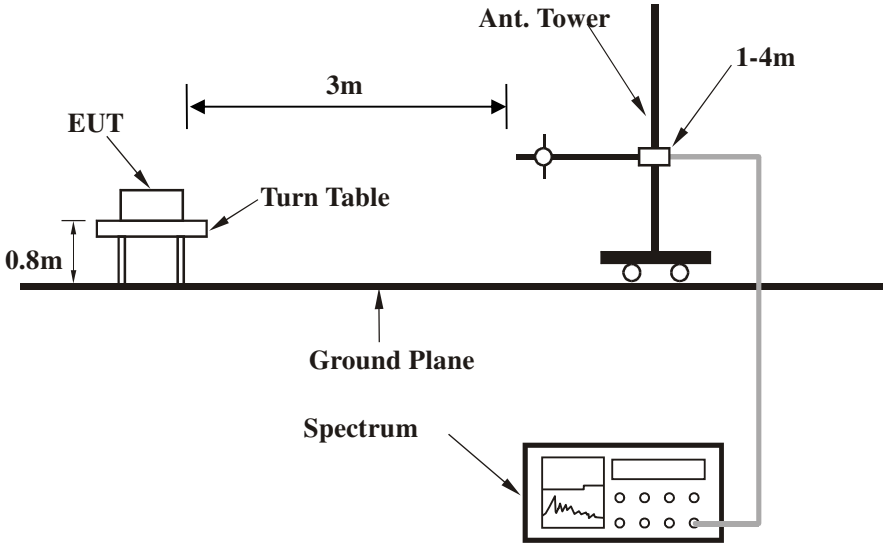
No deviation.

3.1.6 TEST SETUP

Below 30MHz test setup

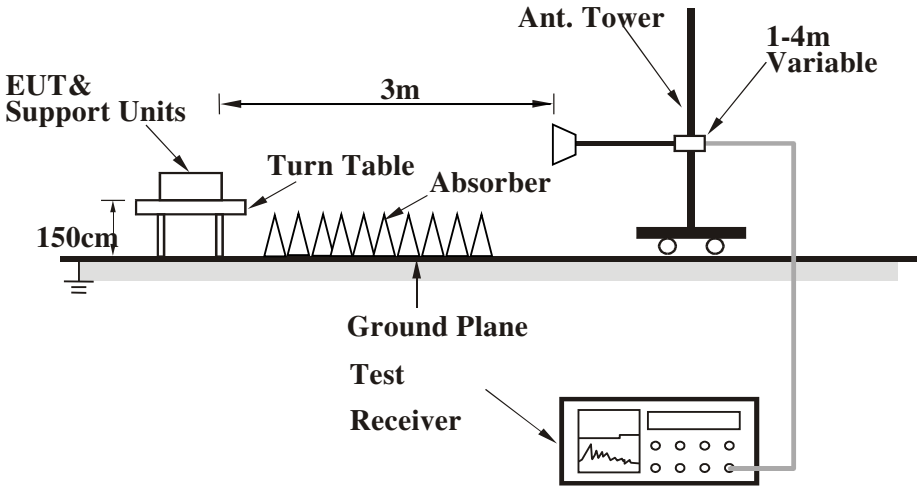


Below 1GHz test setup



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

a. Set the EUT under full load condition and placed them on a testing table.

b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.

c. The necessary accessories enable the EUT in full functions.

3.1.8 FTEST RESULTS

BELOW 1GHz WORST-CASE DATA

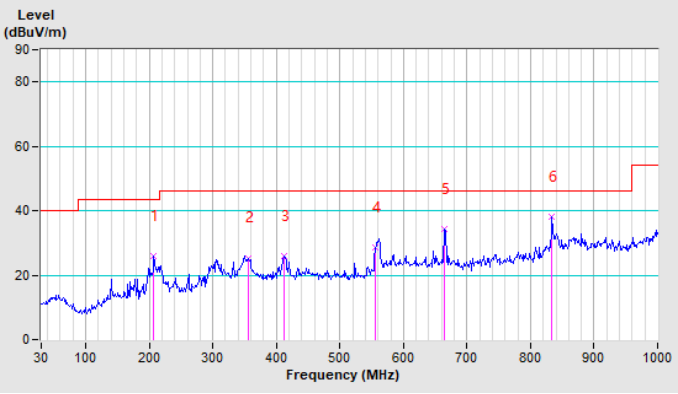
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 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	207.13	25.95 QP	43.50	-17.55	1.00 H	152	42.03	-16.08
2	356.14	25.32 QP	46.00	-20.68	1.00 H	303	36.71	-11.39
3	412.38	25.89 QP	46.00	-20.11	1.00 H	179	36.39	-10.50
4	555.77	28.74 QP	46.00	-17.26	1.00 H	204	36.55	-7.81
5	664.01	34.24 QP	46.00	-11.76	1.00 H	82	40.05	-5.81
6	**834.12**	**38.16 QP**	**46.00**	**-7.84**	**1.00 H**	**77**	**41.01**	**-2.85**

REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.

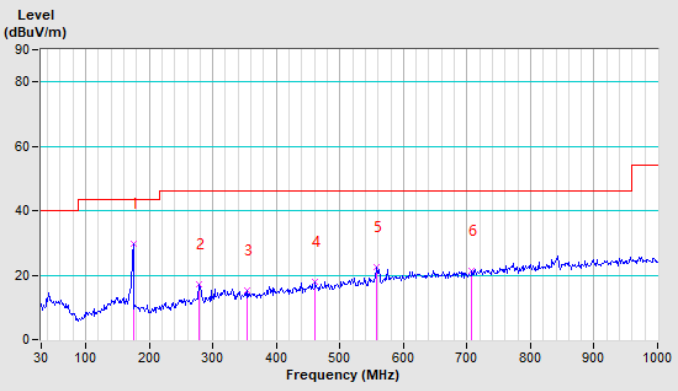


CHANNEL	TX Channel 36	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	174.80	29.76 QP	43.50	-13.74	1.00 V	192	44.26	-14.50
2	277.42	17.10 QP	46.00	-28.90	1.00 V	47	30.09	-12.99
3	354.74	15.14 QP	46.00	-30.86	1.00 V	122	26.54	-11.40
4	461.58	17.82 QP	46.00	-28.18	1.00 V	208	27.53	-9.71
5	558.58	22.46 QP	46.00	-23.54	1.00 V	242	30.19	-7.73
6	707.59	21.31 QP	46.00	-24.69	1.00 V	301	26.53	-5.22

REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.



Band 1 (5150-5250MHz):

ABOVE 1GHz DATA

802.11a

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

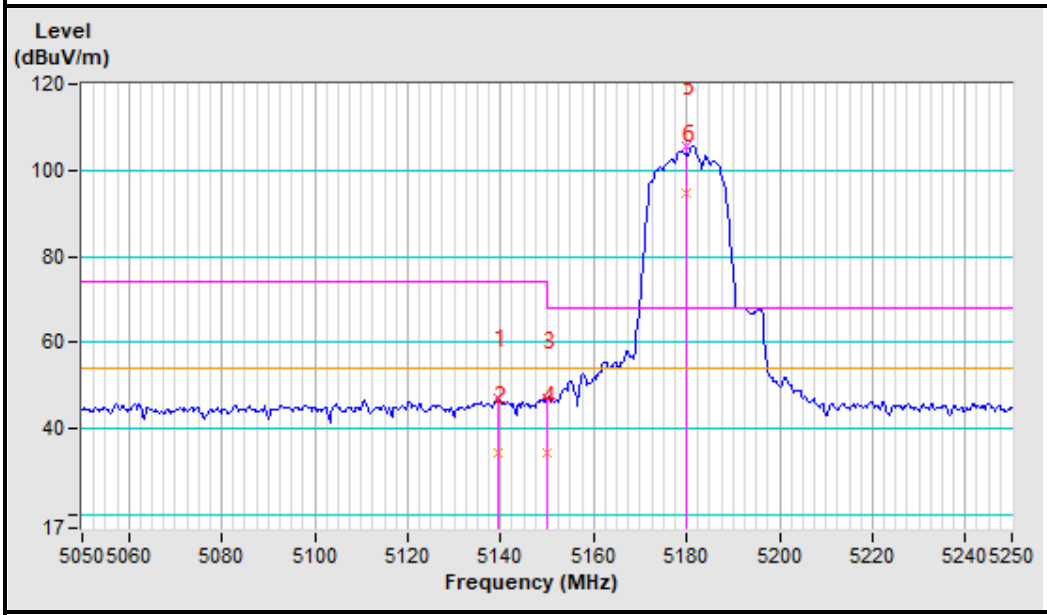
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	5139.29	47.15 PK	74.00	-26.85	1.02 H	216	41.57	5.58
2	5139.29	34.29 AV	54.00	-19.71	1.02 H	216	28.71	5.58
3	5150.00	47.04 PK	74.00	-26.96	1.02 H	216	41.46	5.58
4	5150.00	34.38 AV	54.00	-19.62	1.02 H	216	28.80	5.58
5	*5180.00	105.66 PK			1.02 H	216	100.07	5.59
6	*5180.00	94.75 AV			1.02 H	216	89.16	5.59
7	#10360.00	55.26 PK	68.20	-12.94	1.00 H	266	41.79	13.47
8	15540.00	60.52 PK	74.00	-13.48	1.03 H	102	25.96	34.56
9	15540.00	46.71 AV	54.00	-7.29	1.03 H	102	12.15	34.56
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	5141.90	45.00 PK	74.00	-29.00	1.01 V	147	39.42	5.58
2	5141.90	32.18 AV	54.00	-21.82	1.01 V	147	26.60	5.58
3	5150.00	45.84 PK	74.00	-28.16	1.04 V	147	40.26	5.58
4	5150.00	32.68 AV	54.00	-21.32	1.04 V	147	27.10	5.58
5	*5180.00	103.15 PK			1.04 V	147	97.56	5.59
6	*5180.00	92.84 AV			1.04 V	147	87.25	5.59
7	#10360.00	54.62 PK	68.20	-13.58	1.00 V	215	41.15	13.47
8	15540.00	59.36 PK	74.00	-14.64	1.50 V	278	24.80	34.56
9	15540.00	45.26 AV	54.00	-8.74	1.50 V	278	10.70	34.56

REMARKS:

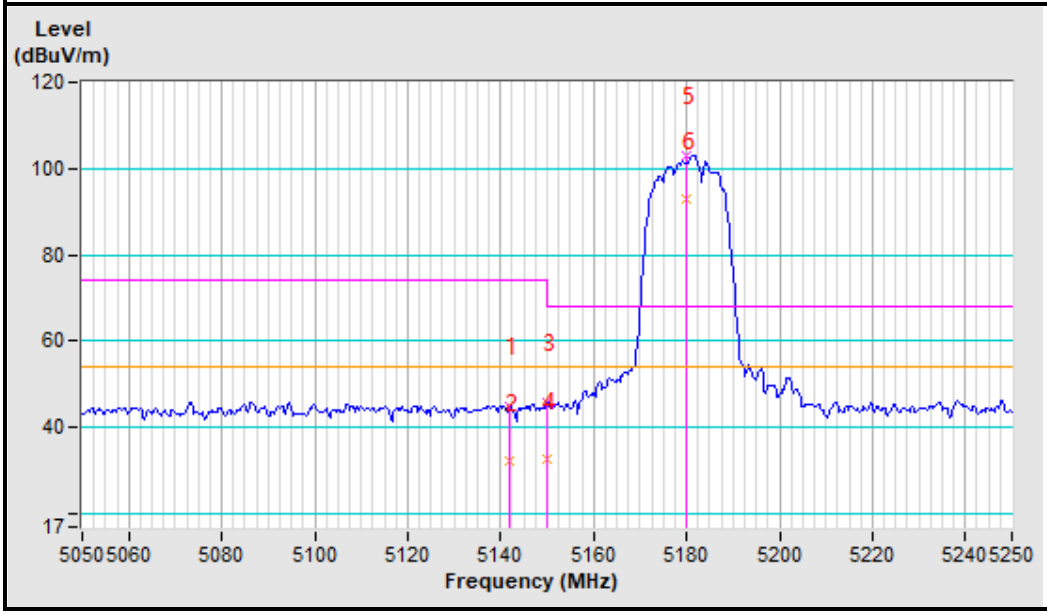
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5180MHz Horizontal



5180MHz Vertical



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	5146.00	47.25 PK	74.00	-26.75	1.05 H	258	41.67	5.58
2	5146.00	34.69 AV	54.00	-19.31	1.05 H	258	29.11	5.58
3	5150.00	46.36 PK	74.00	-27.64	1.05 H	258	40.78	5.58
4	5150.00	33.89 AV	54.00	-20.11	1.05 H	258	28.31	5.58
5	*5200.00	104.69 PK			1.05 H	258	99.10	5.59
6	*5200.00	93.84 AV			1.05 H	258	88.25	5.59
7	#10400.00	53.36 PK	68.20	-14.84	1.00 H	213	39.78	13.58
8	15600.00	60.25 PK	74.00	-13.75	1.06 H	326	23.95	36.30
9	15600.00	46.75 AV	54.00	-7.25	1.06 H	326	10.45	36.30
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	5146.00	46.99 PK	74.00	-27.01	1.02 V	59	41.41	5.58
2	5146.00	33.59 AV	54.00	-20.41	1.02 V	59	28.01	5.58
3	5150.00	46.10 PK	74.00	-27.90	1.02 V	59	40.52	5.58
4	5150.00	32.69 AV	54.00	-21.31	1.02 V	59	27.11	5.58
5	*5200.00	103.54 PK			1.02 V	59	97.95	5.59
6	*5200.00	92.87 AV			1.02 V	59	87.28	5.59
7	#10400.00	52.84 PK	68.20	-15.36	1.00 V	103	39.26	13.58
8	15600.00	59.69 PK	74.00	-14.31	1.05 V	59	23.39	36.30
9	15600.00	46.27 AV	54.00	-7.73	1.05 V	59	9.97	36.30

REMARKS:

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 less than 20dB margin against the limit.
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	5147.00	47.36 PK	74.00	-26.64	1.20 H	216	41.78	5.58
2	5147.00	34.69 AV	54.00	-19.31	1.20 H	216	29.11	5.58
3	5150.00	48.36 PK	74.00	-25.64	1.20 H	216	42.78	5.58
4	5150.00	35.48 AV	54.00	-18.52	1.20 H	216	29.90	5.58
5	*5240.00	105.63 PK			1.20 H	216	100.03	5.60
6	*5240.00	94.22 AV			1.20 H	216	88.62	5.60
7	5350.00	47.63 PK	74.00	-26.37	1.20 H	216	42.01	5.62
8	5350.00	34.39 AV	54.00	-19.61	1.20 H	216	28.77	5.62
9	5354.70	46.35 PK	74.00	-27.65	1.20 H	216	40.72	5.63
10	5354.70	34.01 AV	54.00	-19.99	1.20 H	216	28.38	5.63
11	#10480.00	55.26 PK	68.20	-12.94	1.00 H	269	41.47	13.79
12	15720.00	60.24 PK	74.00	-13.76	1.06 H	67	20.46	39.78
13	15720.00	46.35 AV	54.00	-7.65	1.06 H	67	6.57	39.78
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	5147.36	48.36 PK	74.00	-25.64	1.00 V	277	42.78	5.58
2	5147.36	35.26 AV	54.00	-18.74	1.00 V	277	29.68	5.58
3	5150.00	47.36 PK	74.00	-26.64	1.00 V	277	41.78	5.58
4	5150.00	34.62 AV	54.00	-19.38	1.00 V	277	29.04	5.58
5	*5240.00	103.69 PK			1.00 V	227	98.09	5.60
6	*5240.00	92.14 AV			1.00 V	227	86.54	5.60
7	5350.00	47.66 PK	74.00	-26.34	1.00 V	277	42.04	5.62
8	5350.00	35.02 AV	54.00	-18.98	1.00 V	277	29.40	5.62
9	5356.25	46.36 PK	74.00	-27.64	1.00 V	277	40.74	5.62
10	5356.25	33.78 AV	54.00	-20.22	1.00 V	277	28.16	5.62
11	#10480.00	53.74 PK	68.20	-14.46	1.06 V	321	39.95	13.79
12	15720.00	58.36 PK	74.00	-15.64	1.27 V	58	18.58	39.78
13	15720.00	44.70 AV	54.00	-9.30	1.27 V	58	4.92	39.78

REMARKS:

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

802.11n (20MHz)

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

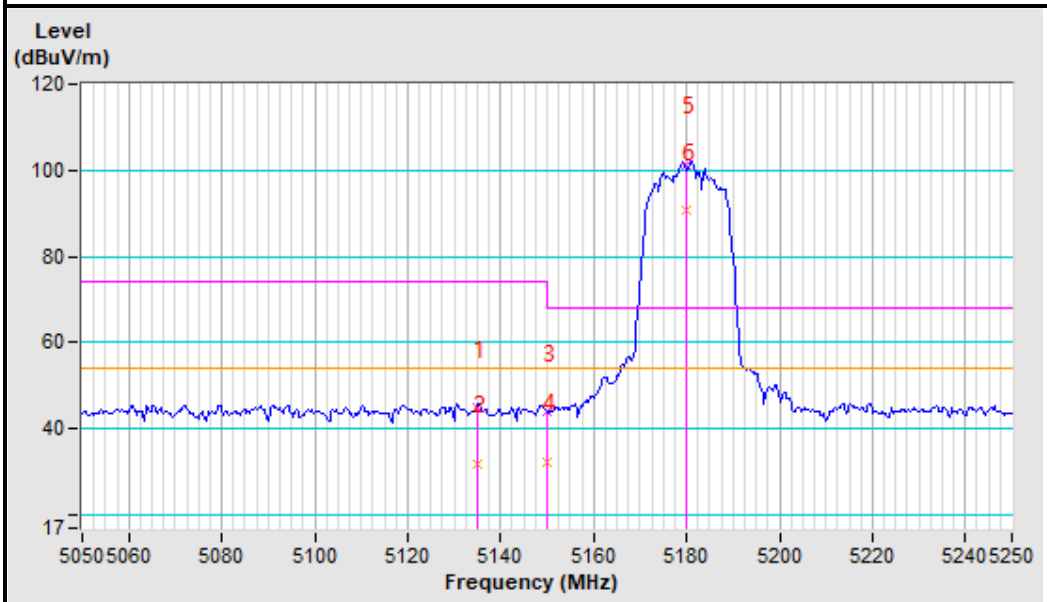
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5134.95	44.94 PK	74.00	-29.06	1.05 H	25	39.36	5.58
2	5134.95	31.95 AV	54.00	-22.05	1.05 H	25	26.37	5.58
3	5150.00	44.06 PK	74.00	-29.94	1.05 H	25	38.48	5.58
4	5150.00	32.37 AV	54.00	-21.63	1.05 H	25	26.79	5.58
5	*5180.00	101.41 PK			1.05 H	25	95.82	5.59
6	*5180.00	90.68 AV			1.05 H	25	85.09	5.59
7	#10360.00	55.26 PK	68.20	-12.94	1.00 H	214	41.79	13.47
8	15540.00	58.40 PK	74.00	-15.60	1.02 H	214	23.84	34.56
9	15540.00	46.21 AV	54.00	-7.79	1.02 H	214	11.65	34.56
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	5131.16	45.98 PK	74.00	-28.02	1.00 V	279	40.40	5.58
2	5131.16	32.59 AV	54.00	-21.41	1.00 V	279	27.01	5.58
3	5150.00	43.88 PK	74.00	-30.12	1.00 V	279	38.30	5.58
4	5150.00	31.05 AV	54.00	-22.95	1.00 V	279	25.47	5.58
5	*5180.00	105.51 PK			1.00 V	279	99.92	5.59
6	*5180.00	94.68 AV			1.00 V	279	89.09	5.59
7	#10360.00	56.30 PK	68.20	-11.90	1.00 V	51	42.83	13.47
8	15540.00	59.10 PK	74.00	-14.90	1.30 V	106	24.54	34.56
9	15540.00	47.25 AV	54.00	-6.75	1.30 V	106	12.69	34.56

REMARKS:

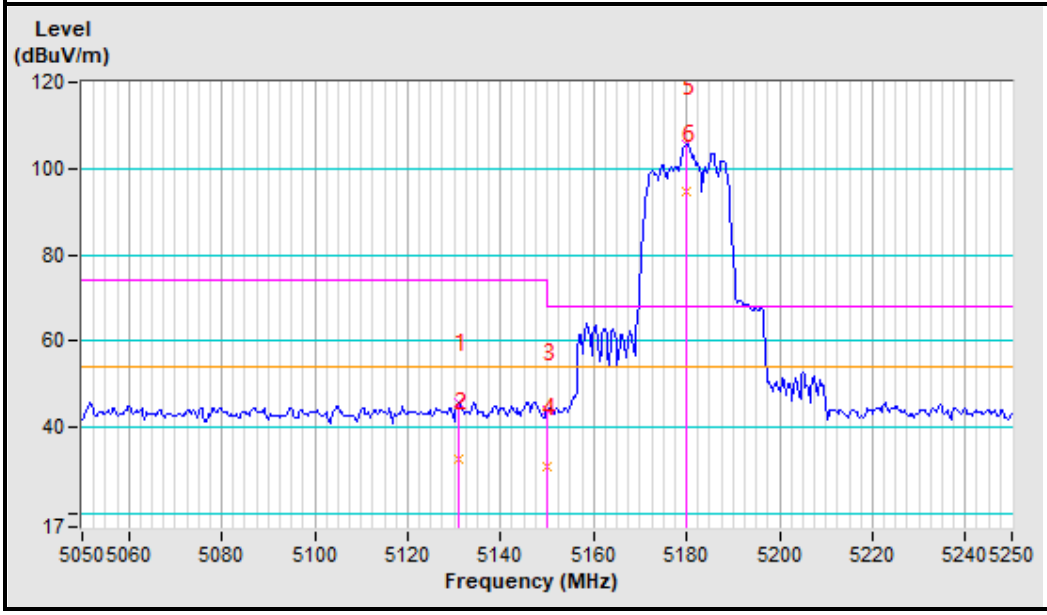
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5180MHz Horizontal



5180MHz Vertical



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	5148.20	46.68 PK	74.00	-27.32	1.05 H	58	41.10	5.58
2	5148.20	32.69 AV	54.00	-21.31	1.05 H	58	27.11	5.58
3	5150.00	48.36 PK	74.00	-25.64	1.05 H	58	42.78	5.58
4	5150.00	35.95 AV	54.00	-18.05	1.05 H	58	30.37	5.58
5	*5200.00	102.36 PK			1.05 H	58	96.77	5.59
6	*5200.00	91.69 AV			1.05 H	58	86.10	5.59
7	#10400.00	52.03 PK	68.20	-16.17	1.00 H	69	38.45	13.58
8	15600.00	58.41 PK	74.00	-15.59	1.05 H	127	22.11	36.30
9	15600.00	44.20 AV	54.00	-9.80	1.05 H	127	7.90	36.30
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	5146.00	47.62 PK	74.00	-26.38	1.00 V	213	42.04	5.58
2	5146.00	34.82 AV	54.00	-19.18	1.00 V	213	29.24	5.58
3	5150.00	45.36 PK	74.00	-28.64	1.00 V	213	39.78	5.58
4	5150.00	33.10 AV	54.00	-20.90	1.00 V	213	27.52	5.58
5	*5200.00	104.69 PK			1.00 V	213	99.10	5.59
6	*5200.00	93.51 AV			1.00 V	213	87.92	5.59
7	#10400.00	53.36 PK	68.20	-14.84	1.05 V	210	39.78	13.58
8	15600.00	61.52 PK	74.00	-12.48	1.00 V	104	25.22	36.30
9	15600.00	47.59 AV	54.00	-6.41	1.00 V	104	11.29	36.30

REMARKS:

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 less than 20dB margin against the limit.
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	5147.52	48.52 PK	74.00	-25.48	1.00 H	310	42.94	5.58
2	5147.52	35.69 AV	54.00	-18.31	1.00 H	310	30.11	5.58
3	5150.00	49.32 PK	74.00	-24.68	1.00 H	310	43.74	5.58
4	5150.00	36.55 AV	54.00	-17.45	1.00 H	310	30.97	5.58
5	*5240.00	101.63 PK			1.00 H	310	96.03	5.60
6	*5240.00	90.84 AV			1.00 H	310	85.24	5.60
7	5350.00	47.84 PK	74.00	-26.16	1.00 H	310	42.22	5.62
8	5350.00	34.52 AV	54.00	-19.48	1.00 H	310	28.90	5.62
9	5358.21	48.20 PK	74.00	-25.80	1.00 H	310	42.58	5.62
10	5358.21	35.68 AV	54.00	-18.32	1.00 H	310	30.06	5.62
11	#10480.00	53.41 PK	68.20	-14.79	1.02 H	215	39.62	13.79
12	15720.00	60.36 PK	74.00	-13.64	1.00 H	257	20.58	39.78
13	15720.00	46.10 AV	54.00	-7.90	1.00 H	257	6.32	39.78
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	5145.00	48.25 PK	74.00	-25.75	1.04 V	21	42.67	5.58
2	5145.00	35.66 AV	54.00	-18.34	1.04 V	21	30.08	5.58
3	5150.00	47.41 PK	74.00	-26.59	1.04 V	21	41.83	5.58
4	5150.00	34.69 AV	54.00	-19.31	1.04 V	21	29.11	5.58
5	*5240.00	105.03 PK			1.04 V	21	99.43	5.60
6	*5240.00	94.26 AV			1.04 V	21	88.66	5.60
7	5350.00	49.36 PK	74.00	-24.64	1.00 V	21	43.74	5.62
8	5350.00	36.47 AV	54.00	-17.53	1.00 V	21	30.85	5.62
9	5359.00	47.36 PK	74.00	-26.64	1.04 V	21	41.74	5.62
10	5359.00	34.20 AV	54.00	-19.80	1.04 V	21	28.58	5.62
11	#10480.00	53.40 PK	68.20	-14.80	1.00 V	218	39.61	13.79
12	15720.00	62.36 PK	74.00	-11.64	1.02 V	20	22.58	39.78
13	15720.00	47.12 AV	54.00	-6.88	1.02 V	20	7.34	39.78

REMARKS:

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

802.11n (40MHz)

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

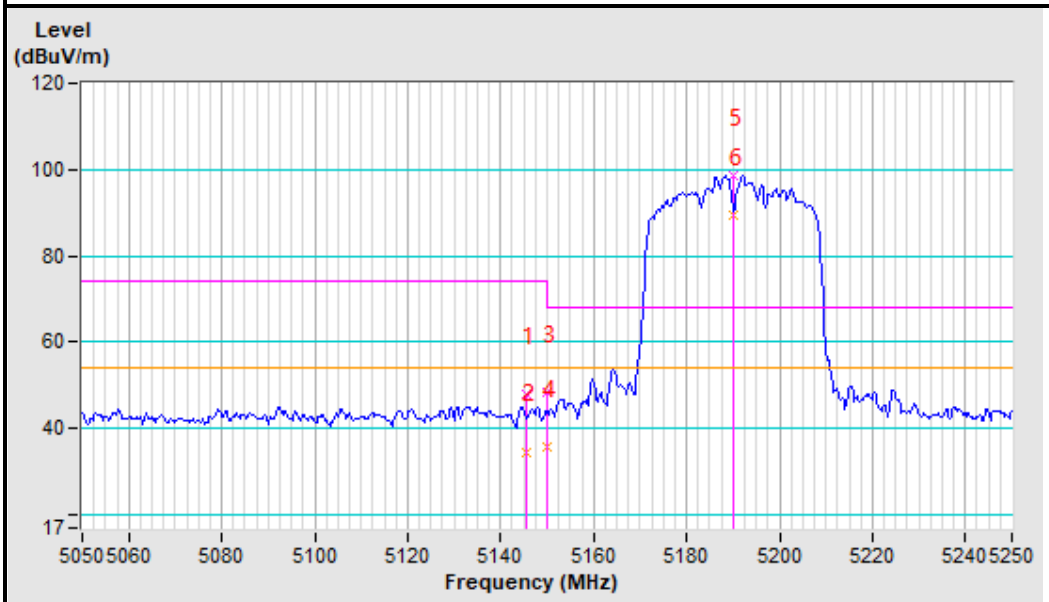
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5145.66	47.93 PK	74.00	-26.07	1.05 H	52	42.36	5.57
2	5145.66	34.52 AV	54.00	-19.48	1.05 H	52	28.95	5.57
3	5150.00	48.26 PK	74.00	-25.74	1.05 H	52	42.68	5.58
4	5150.00	35.69 AV	54.00	-18.31	1.05 H	52	30.11	5.58
5	*5190.00	98.48 PK			1.05 H	52	92.89	5.59
6	*5190.00	89.24 AV			1.05 H	52	83.65	5.59
7	#10380.00	54.01 PK	68.20	-14.19	1.00 H	102	40.48	13.53
8	15570.00	63.30 PK	74.00	-10.70	1.05 H	69	27.86	35.44
9	15570.00	48.10 AV	54.00	-5.90	1.05 H	69	12.66	35.44
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	5133.21	45.09 PK	74.00	-28.91	1.00 V	266	39.51	5.58
2	5133.21	32.96 AV	54.00	-21.04	1.00 V	266	27.38	5.58
3	5150.00	45.52 PK	74.00	-28.48	1.00 V	266	39.94	5.58
4	5150.00	32.69 AV	54.00	-21.31	1.00 V	266	27.11	5.58
5	*5190.00	97.06 PK			1.00 V	266	91.47	5.59
6	*5190.00	88.57 AV			1.00 V	266	82.98	5.59
7	#10380.00	53.40 PK	68.20	-14.80	1.20 V	213	39.87	13.53
8	15570.00	62.36 PK	74.00	-11.64	1.00 V	205	26.92	35.44
9	15570.00	47.82 AV	54.00	-6.18	1.00 V	205	12.38	35.44

REMARKS:

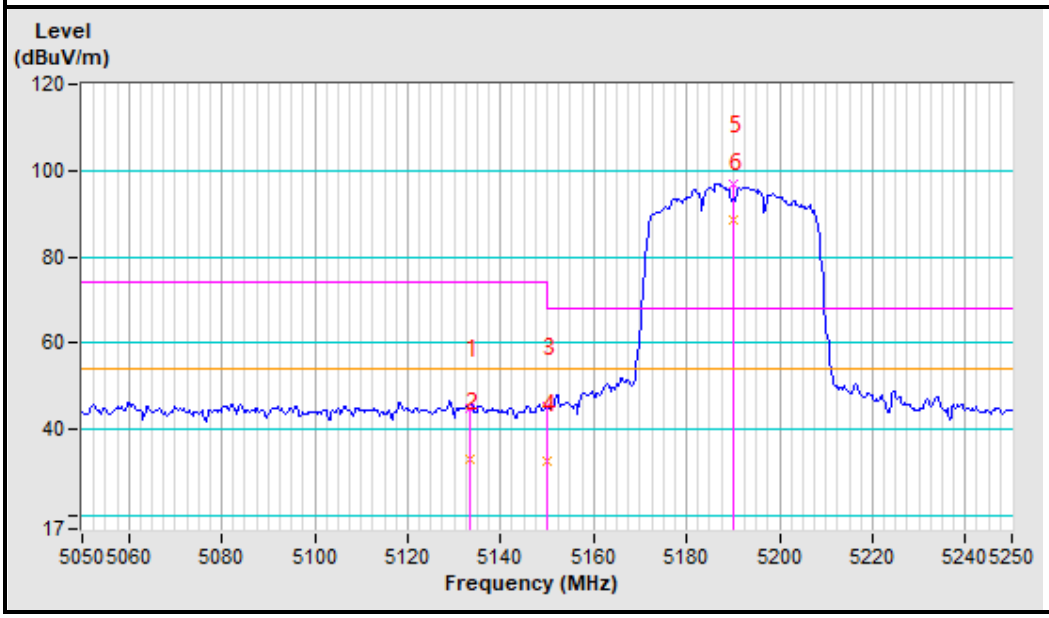
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5190MHz Horizontal



5190MHz Vertical



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	5147.36	47.36 PK	74.00	-26.64	1.01 H	134	41.78	5.58
2	5147.36	34.20 AV	54.00	-19.80	1.01 H	134	28.62	5.58
3	5150.00	48.26 PK	74.00	-25.74	1.01 H	134	42.68	5.58
4	5150.00	35.88 AV	54.00	-18.12	1.01 H	134	30.30	5.58
5	*5230.00	97.58 PK			1.01 H	134	91.98	5.60
6	*5230.00	86.81 AV			1.01 H	134	81.21	5.60
7	#10460.00	53.62 PK	68.20	-14.58	1.00 H	214	39.89	13.73
8	15690.00	59.81 PK	74.00	-14.19	1.05 H	257	20.91	38.90
9	15690.00	45.71 AV	54.00	-8.29	1.05 H	257	6.81	38.90
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	5146.00	48.25 PK	74.00	-25.75	1.05 V	51	42.67	5.58
2	5146.00	35.10 AV	54.00	-18.90	1.05 V	51	29.52	5.58
3	5150.00	46.36 PK	74.00	-27.64	1.05 V	51	40.78	5.58
4	5150.00	33.27 AV	54.00	-20.73	1.05 V	51	27.69	5.58
5	*5230.00	96.81 PK			1.05 V	51	91.21	5.60
6	*5230.00	85.70 AV			1.05 V	51	80.10	5.60
7	#10460.00	53.37 PK	68.20	-14.83	1.00 V	96	39.64	13.73
8	15690.00	60.25 PK	74.00	-13.75	1.06 V	67	21.35	38.90
9	15690.00	46.18 AV	54.00	-7.82	1.06 V	67	7.28	38.90

REMARKS:

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 less than 20dB margin against the limit.
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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

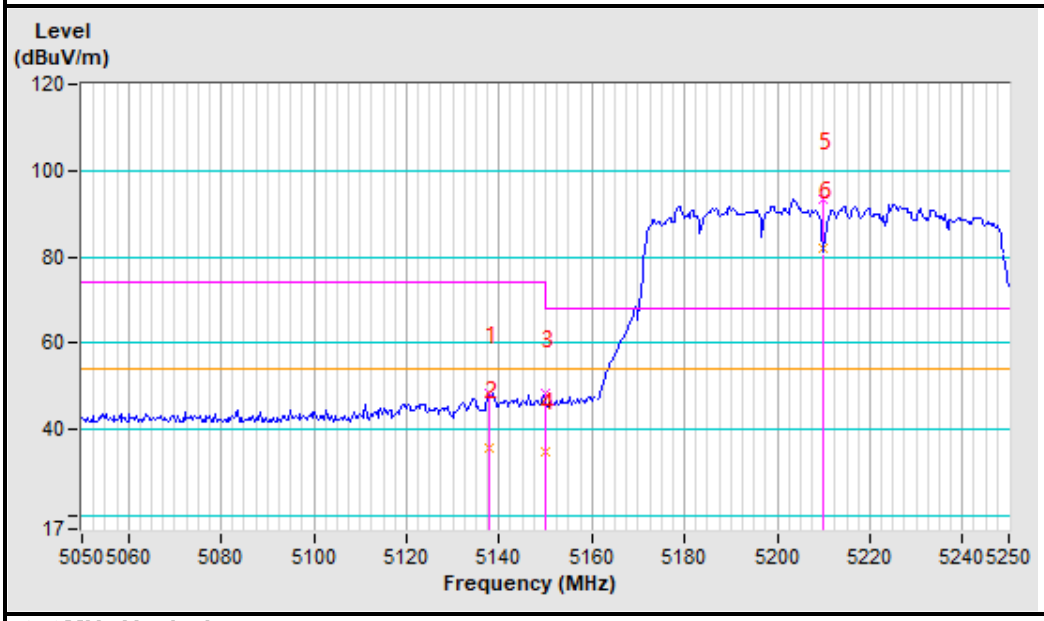
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5137.84	48.85 PK	74.00	-25.15	1.23 H	136	43.27	5.58
2	5137.84	37.25 AV	54.00	-16.75	1.23 H	136	31.67	5.58
3	5150.00	47.91 PK	74.00	-26.09	1.35 H	136	42.33	5.58
4	5150.00	35.76 AV	54.00	-18.24	1.35 H	136	30.18	5.58
5	*5210.00	94.04 PK			1.18 H	136	88.45	5.59
6	*5210.00	81.65 AV			1.18 H	136	76.06	5.59
7	#10420.00	-55.03 PK	68.20	-123.23	1.00 H	123	-68.67	13.64
8	#10420.00	55.03 PK	68.20	-13.17	1.00 H	123	41.39	13.64
9	15630.00	62.44 PK	74.00	-11.56	1.30 H	80	25.27	37.17
10	15630.00	47.20 AV	54.00	-6.80	1.30 H	80	10.03	37.17
11	15630.00	62.44 PK	74.00	-11.56	1.30 H	80	25.27	37.17
12	15630.00	47.20 AV	54.00	-6.80	1.30 H	80	10.03	37.17
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	5137.84	48.30 PK	74.00	-25.70	1.20 V	247	42.72	5.58
2	5137.84	35.69 AV	54.00	-18.31	1.20 V	247	30.11	5.58
3	5150.00	47.31 PK	74.00	-26.69	1.20 V	247	41.73	5.58
4	5150.00	34.85 AV	54.00	-19.15	1.20 V	247	29.27	5.58
5	*5210.00	92.79 PK			1.20 V	247	87.20	5.59
6	*5210.00	81.40 AV			1.20 V	247	75.81	5.59
7	#10420.00	54.10 PK	68.20	-14.10	1.20 V	316	40.46	13.64
8	15630.00	61.28 PK	74.00	-12.72	1.00 V	21	24.11	37.17
9	15630.00	46.58 AV	54.00	-7.42	1.00 V	21	9.41	37.17

REMARKS:

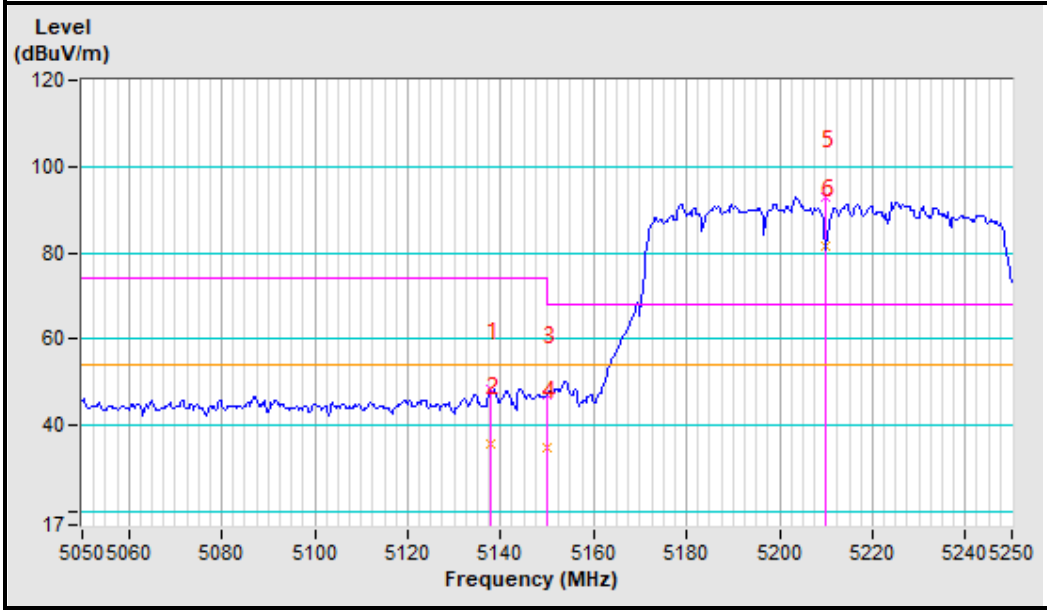
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5210MHz Horizontal



5210MHz Vertical



802.11ax (20MHz)

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

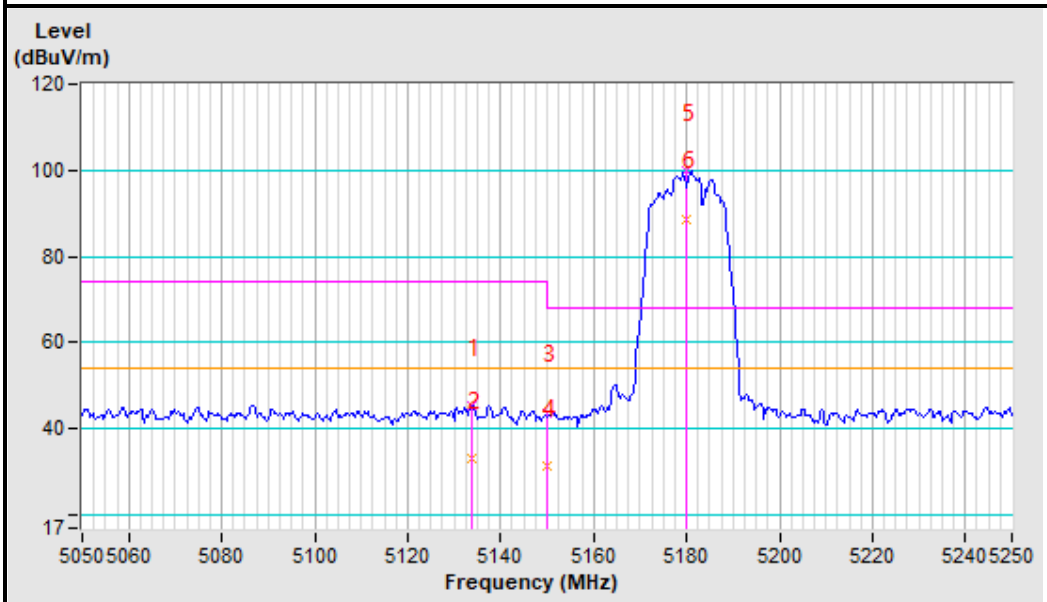
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5133.79	45.16 PK	74.00	-28.84	1.00 H	108	39.58	5.58
2	5133.79	32.96 AV	54.00	-21.04	1.00 H	108	27.38	5.58
3	5150.00	43.72 PK	74.00	-30.28	1.00 H	108	38.14	5.58
4	5150.00	31.26 AV	54.00	-22.74	1.00 H	108	25.68	5.58
5	*5180.00	99.86 PK			1.00 H	108	94.27	5.59
6	*5180.00	88.70 AV			1.00 H	108	83.11	5.59
7	#10360.00	52.81 PK	68.20	-15.39	1.00 H	210	39.34	13.47
8	15540.00	59.57 PK	74.00	-14.43	1.06 H	68	25.01	34.56
9	15540.00	45.25 AV	54.00	-8.75	1.06 H	68	10.69	34.56
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	5131.40	44.81 PK	74.00	-29.19	1.20 V	102	39.23	5.58
2	5131.40	32.06 AV	54.00	-21.94	1.20 V	102	26.48	5.58
3	5150.00	43.36 PK	74.00	-30.64	1.20 V	102	37.78	5.58
4	5150.00	31.69 AV	54.00	-22.31	1.20 V	102	26.11	5.58
5	*5180.00	94.76 PK			1.20 V	102	89.17	5.59
6	*5180.00	83.20 AV			1.20 V	102	77.61	5.59
7	#10360.00	51.81 PK	68.20	-16.39	1.06 V	20	38.34	13.47
8	15540.00	58.77 PK	74.00	-15.23	1.00 V	301	24.21	34.56
9	15540.00	44.69 AV	54.00	-9.31	1.00 V	301	10.13	34.56

REMARKS:

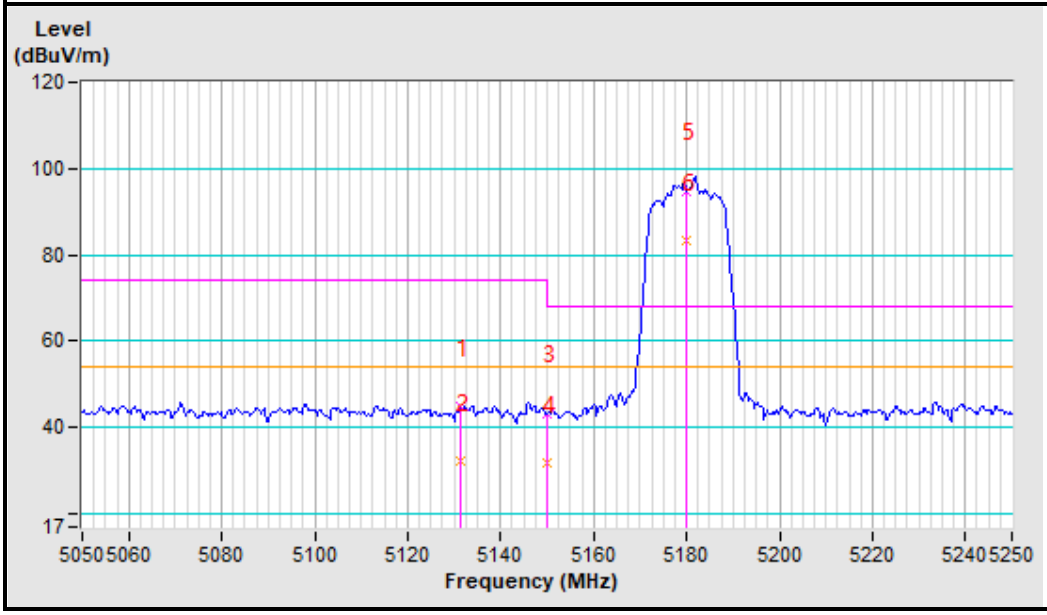
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5180MHz Horizontal



5180MHz Vertical



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	5146.00	47.52 PK	74.00	-26.48	1.03 H	21	41.94	5.58
2	5146.00	34.15 AV	54.00	-19.85	1.03 H	21	28.57	5.58
3	5150.00	48.25 PK	74.00	-25.75	1.03 H	21	42.67	5.58
4	5150.00	35.69 AV	54.00	-18.31	1.03 H	21	30.11	5.58
5	*5200.00	97.25 PK			1.03 H	21	91.66	5.59
6	*5200.00	86.58 AV			1.03 H	21	80.99	5.59
7	#10400.00	53.20 PK	68.20	-15.00	1.00 H	210	39.62	13.58
8	15600.00	60.25 PK	74.00	-13.75	1.02 H	257	23.95	36.30
9	15600.00	45.10 AV	54.00	-8.90	1.02 H	257	8.80	36.30
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	5143.00	48.25 PK	74.00	-25.75	1.02 V	16	42.67	5.58
2	5143.00	36.00 AV	54.00	-18.00	1.02 V	16	30.42	5.58
3	5150.00	46.36 PK	74.00	-27.64	1.02 V	16	40.78	5.58
4	5150.00	33.85 AV	54.00	-20.15	1.02 V	16	28.27	5.58
5	*5200.00	92.52 PK			1.02 V	16	86.93	5.59
6	*5200.00	81.14 AV			1.02 V	16	75.55	5.59
7	#10400.00	52.58 PK	68.20	-15.62	1.00 V	140	39.00	13.58
8	15600.00	60.36 PK	74.00	-13.64	1.05 V	51	24.06	36.30
9	15600.00	46.24 AV	54.00	-7.76	1.05 V	51	9.94	36.30

REMARKS:

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 less than 20dB margin against the limit.
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	5145.36	48.36 PK	74.00	-25.64	1.00 H	36	42.79	5.57
2	5145.36	35.85 AV	54.00	-18.15	1.00 H	36	30.28	5.57
3	5150.00	47.25 PK	74.00	-26.75	1.00 H	36	41.67	5.58
4	5150.00	34.71 AV	54.00	-19.29	1.00 H	36	29.13	5.58
5	*5240.00	98.26 PK			1.00 H	36	92.66	5.60
6	*5240.00	87.69 AV			1.00 H	36	82.09	5.60
7	5350.00	47.54 PK	74.00	-26.46	1.00 H	36	41.92	5.62
8	5350.00	34.56 AV	54.00	-19.44	1.00 H	36	28.94	5.62
9	5359.00	49.36 PK	74.00	-24.64	1.00 H	36	43.74	5.62
10	5359.00	36.71 AV	54.00	-17.29	1.00 H	36	31.09	5.62
11	#10480.00	54.62 PK	68.20	-13.58	1.20 H	257	40.83	13.79
12	15720.00	60.36 PK	74.00	-13.64	1.01 H	21	20.58	39.78
13	15720.00	46.21 AV	54.00	-7.79	1.01 H	21	6.43	39.78
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	5145.82	47.36 PK	74.00	-26.64	1.02 V	216	41.79	5.57
2	5145.82	34.69 AV	54.00	-19.31	1.02 V	216	29.12	5.57
3	5150.00	46.36 PK	74.00	-27.64	1.02 V	216	40.78	5.58
4	5150.00	33.85 AV	54.00	-20.15	1.02 V	216	28.27	5.58
5	*5240.00	93.14 PK			1.02 V	216	87.54	5.60
6	*5240.00	82.71 AV			1.02 V	216	77.11	5.60
7	5350.00	48.20 PK	74.00	-25.80	1.02 V	216	42.58	5.62
8	5350.00	35.84 AV	54.00	-18.16	1.02 V	216	30.22	5.62
9	5358.00	47.57 PK	74.00	-26.43	1.02 V	216	41.95	5.62
10	5358.00	34.56 AV	54.00	-19.44	1.02 V	216	28.94	5.62
11	#10480.00	53.20 PK	68.20	-15.00	1.01 V	258	39.41	13.79
12	15720.00	58.41 PK	74.00	-15.59	1.00 V	69	18.63	39.78
13	15720.00	44.10 AV	54.00	-9.90	1.00 V	69	4.32	39.78

REMARKS:

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

802.11ax (40MHz)

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

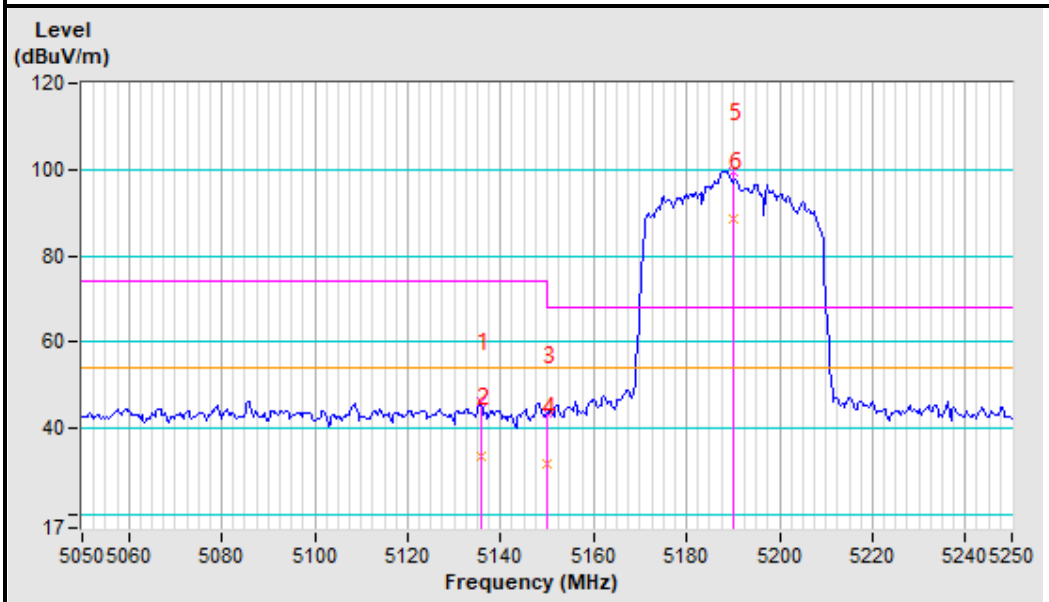
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5135.82	46.37 PK	74.00	-27.63	1.00 H	215	40.80	5.57
2	5135.82	33.69 AV	54.00	-20.31	1.00 H	215	28.12	5.57
3	5150.00	43.64 PK	74.00	-30.36	1.00 H	215	38.06	5.58
4	5150.00	31.69 AV	54.00	-22.31	1.00 H	215	26.11	5.58
5	*5190.00	99.69 PK			1.00 H	215	94.10	5.59
6	*5190.00	88.57 AV			1.00 H	215	82.98	5.59
7	#10380.00	51.02 PK	68.20	-17.18	1.00 H	110	37.49	13.53
8	15570.00	64.03 PK	74.00	-9.97	1.00 H	69	28.59	35.44
9	**15570.00**	**48.50 AV**	**54.00**	**-5.50**	**1.00 H**	**69**	**13.06**	**35.44**
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	5128.00	46.38 PK	74.00	-27.62	1.00 V	211	40.81	5.57
2	5128.00	34.02 AV	54.00	-19.98	1.00 V	211	28.45	5.57
3	5150.00	45.65 PK	74.00	-28.35	1.00 V	211	40.07	5.58
4	5150.00	33.80 AV	54.00	-20.20	1.00 V	211	28.22	5.58
5	*5190.00	96.10 PK			1.00 V	211	90.51	5.59
6	*5190.00	85.36 AV			1.00 V	211	79.77	5.59
7	#10380.00	51.36 PK	68.20	-16.84	1.00 V	215	37.83	13.53
8	15570.00	63.36 PK	74.00	-10.64	1.00 V	51	27.92	35.44
9	15570.00	48.20 AV	54.00	-5.80	1.00 V	51	12.76	35.44

REMARKS:

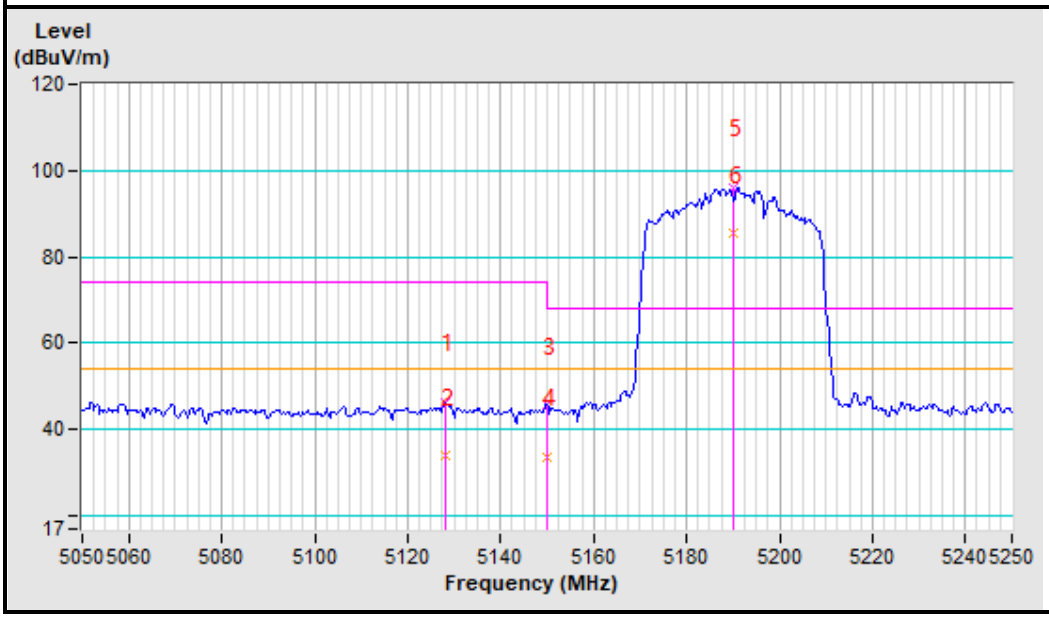
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5190MHz Horizontal



5190MHz Vertical



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	5148.00	47.36 PK	74.00	-26.64	1.00 H	41	41.78	5.58
2	5148.00	34.26 AV	54.00	-19.74	1.00 H	41	28.68	5.58
3	5150.00	48.36 PK	74.00	-25.64	1.00 H	41	42.78	5.58
4	5150.00	35.59 AV	54.00	-18.41	1.00 H	41	30.01	5.58
5	*5230.00	97.58 PK			1.00 H	41	91.98	5.60
6	*5230.00	86.74 AV			1.00 H	41	81.14	5.60
7	#10460.00	50.36 PK	68.20	-17.84	1.05 H	25	36.63	13.73
8	15690.00	60.81 PK	74.00	-13.19	1.00 H	216	21.91	38.90
9	15690.00	46.59 AV	54.00	-7.41	1.00 H	216	7.69	38.90
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	5144.25	48.25 PK	74.00	-25.75	1.00 V	240	42.67	5.58
2	5144.25	36.51 AV	54.00	-17.49	1.00 V	240	30.93	5.58
3	5150.00	46.36 PK	74.00	-27.64	1.00 V	240	40.78	5.58
4	5150.00	33.74 AV	54.00	-20.26	1.00 V	240	28.16	5.58
5	*5230.00	94.50 PK			1.00 V	240	88.90	5.60
6	*5230.00	83.69 AV			1.00 V	240	78.09	5.60
7	#10460.00	49.68 PK	68.20	-18.52	1.20 V	32	35.95	13.73
8	15690.00	59.68 PK	74.00	-14.32	1.40 V	54	20.78	38.90
9	15690.00	45.22 AV	54.00	-8.78	1.40 V	54	6.32	38.90

REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

802.11ax (80MHz)

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

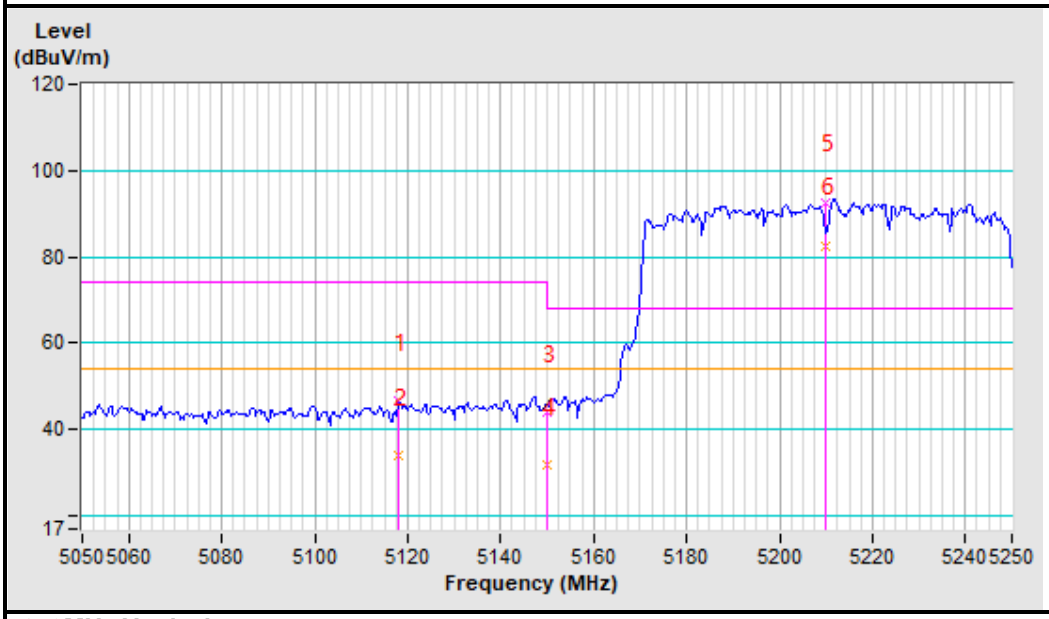
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5118.16	46.46 PK	74.00	-27.54	1.02 H	23	40.89	5.57
2	5118.16	33.85 AV	54.00	-20.15	1.02 H	23	28.28	5.57
3	5150.00	44.01 PK	74.00	-29.99	1.02 H	23	38.43	5.58
4	5150.00	31.69 AV	54.00	-22.31	1.02 H	23	26.11	5.58
5	*5210.00	92.69 PK			1.02 H	23	87.10	5.59
6	*5210.00	82.54 AV			1.02 H	23	76.95	5.59
7	#10420.00	53.30 PK	68.20	-14.90	1.02 H	258	39.66	13.64
8	15630.00	61.36 PK	74.00	-12.64	1.50 H	24	24.19	37.17
9	15630.00	47.20 AV	54.00	-6.80	1.50 H	24	10.03	37.17
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	5136.40	45.21 PK	74.00	-28.79	1.00 V	210	39.64	5.57
2	5136.40	32.65 AV	54.00	-21.35	1.00 V	210	27.08	5.57
3	5150.00	43.57 PK	74.00	-30.43	1.00 V	210	37.99	5.58
4	5150.00	31.05 AV	54.00	-22.95	1.00 V	210	25.47	5.58
5	*5210.00	94.55 PK			1.00 V	210	88.96	5.59
6	*5210.00	83.74 AV			1.00 V	210	78.15	5.59
7	#10420.00	52.74 PK	68.20	-15.46	1.02 V	50	39.10	13.64
8	15630.00	60.50 PK	74.00	-13.50	1.01 V	136	23.33	37.17
9	15630.00	46.68 AV	54.00	-7.32	1.01 V	136	9.51	37.17

REMARKS:

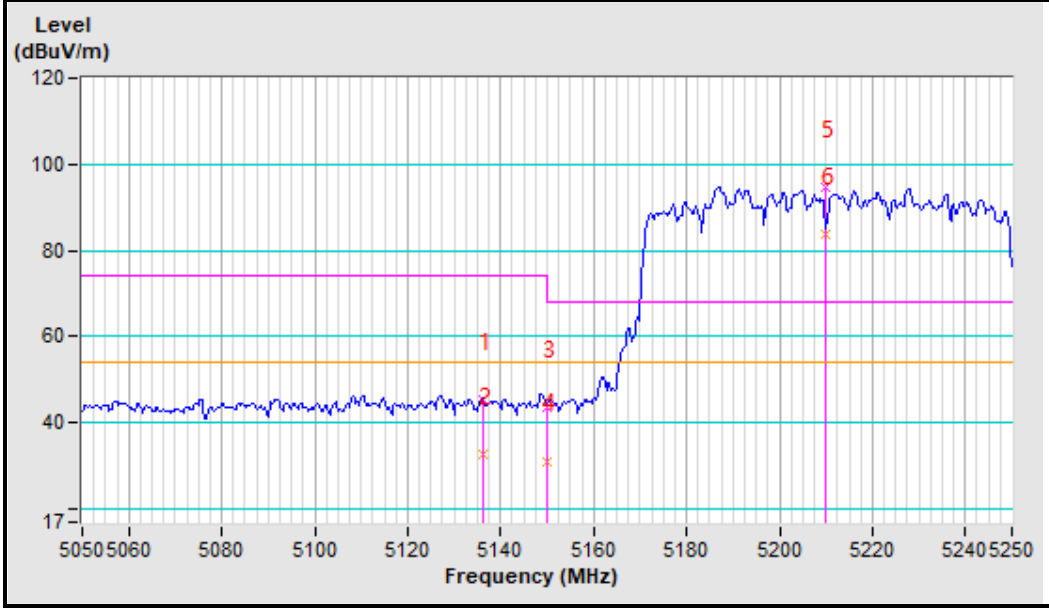
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5210MHz Horizontal



5210MHz Vertical



Band 2 (5250-5350MHz):

ABOVE 1GHz DATA

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	5146.00	38.26 PK	74.00	-35.74	1.00 H	26	32.68	5.58
2	5146.00	29.66 AV	54.00	-24.34	1.00 H	26	24.08	5.58
3	5150.00	35.26 PK	74.00	-38.74	1.00 H	26	29.68	5.58
4	5150.00	26.36 AV	54.00	-27.64	1.00 H	26	20.78	5.58
5	*5260.00	98.59 PK			1.00 H	26	92.99	5.60
6	*5260.00	84.27 AV			1.00 H	26	78.67	5.60
7	5350.00	37.41 PK	74.00	-36.59	1.00 H	26	31.79	5.62
8	5350.00	28.57 AV	54.00	-25.43	1.00 H	26	22.95	5.62
9	5358.00	40.10 PK	74.00	-33.90	1.00 H	26	34.48	5.62
10	5358.00	31.26 AV	54.00	-22.74	1.00 H	26	25.64	5.62
11	#10520.00	54.20 PK	68.20	-14.00	1.05 H	58	40.31	13.89
12	15780.00	60.25 PK	74.00	-13.75	1.20 H	213	18.75	41.50
13	15780.00	46.69 AV	54.00	-7.31	1.20 H	213	5.19	41.50
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	5143.00	38.51 PK	74.00	-35.49	1.01 V	230	32.93	5.58
2	5143.00	29.60 AV	54.00	-24.40	1.01 V	230	24.02	5.58
3	5150.00	35.85 PK	74.00	-38.15	1.01 V	230	30.27	5.58
4	5150.00	26.96 AV	54.00	-27.04	1.01 V	230	21.38	5.58
5	*5260.00	101.36 PK			1.01 V	230	95.76	5.60
6	*5260.00	88.57 AV			1.01 V	230	82.97	5.60
7	5350.00	36.36 PK	74.00	-37.64	1.01 V	230	30.74	5.62
8	5350.00	27.40 AV	54.00	-26.60	1.01 V	230	21.78	5.62
9	5359.00	36.41 PK	74.00	-37.59	1.01 V	230	30.79	5.62
10	5359.00	27.81 AV	54.00	-26.19	1.01 V	230	22.19	5.62
11	#10520.00	53.36 PK	68.20	-14.84	1.00 V	216	39.47	13.89
12	15780.00	58.36 PK	74.00	-15.64	1.06 V	69	16.86	41.50
13	15780.00	44.20 AV	54.00	-9.80	1.06 V	69	2.70	41.50

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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	99.25 PK			1.03 H	31	93.64	5.61
2	*5300.00	85.74 AV			1.03 H	31	80.13	5.61
3	5350.00	35.63 PK	74.00	-38.37	1.03 H	31	30.01	5.62
4	5350.00	26.84 AV	54.00	-27.16	1.03 H	31	21.22	5.62
5	5358.26	36.10 PK	74.00	-37.90	1.03 H	31	30.48	5.62
6	5358.26	27.40 AV	54.00	-26.60	1.03 H	31	21.78	5.62
7	10600.00	53.36 PK	74.00	-20.64	1.05 H	27	39.27	14.09
8	10600.00	40.25 AV	54.00	-13.75	1.05 H	27	26.16	14.09
9	15900.00	58.62 PK	74.00	-15.38	1.06 H	321	13.64	44.98
10	15900.00	44.27 AV	54.00	-9.73	1.06 H	321	-0.71	44.98
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	*5300.00	102.10 PK			1.00 V	123	96.49	5.61
2	*5300.00	90.58 AV			1.00 V	123	84.97	5.61
3	5350.00	36.52 PK	74.00	-37.48	1.00 V	123	30.90	5.62
4	5350.00	27.69 AV	54.00	-26.31	1.00 V	123	22.07	5.62
5	5357.00	37.41 PK	74.00	-36.59	1.00 V	123	31.79	5.62
6	5357.00	28.52 AV	54.00	-25.48	1.00 V	123	22.90	5.62
7	10600.00	54.26 PK	74.00	-19.74	1.50 V	215	40.17	14.09
8	10600.00	41.36 AV	54.00	-12.64	1.50 V	215	27.27	14.09
9	15900.00	59.36 PK	74.00	-14.64	1.00 V	210	14.38	44.98
10	15900.00	45.20 AV	54.00	-8.80	1.00 V	210	0.22	44.98

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

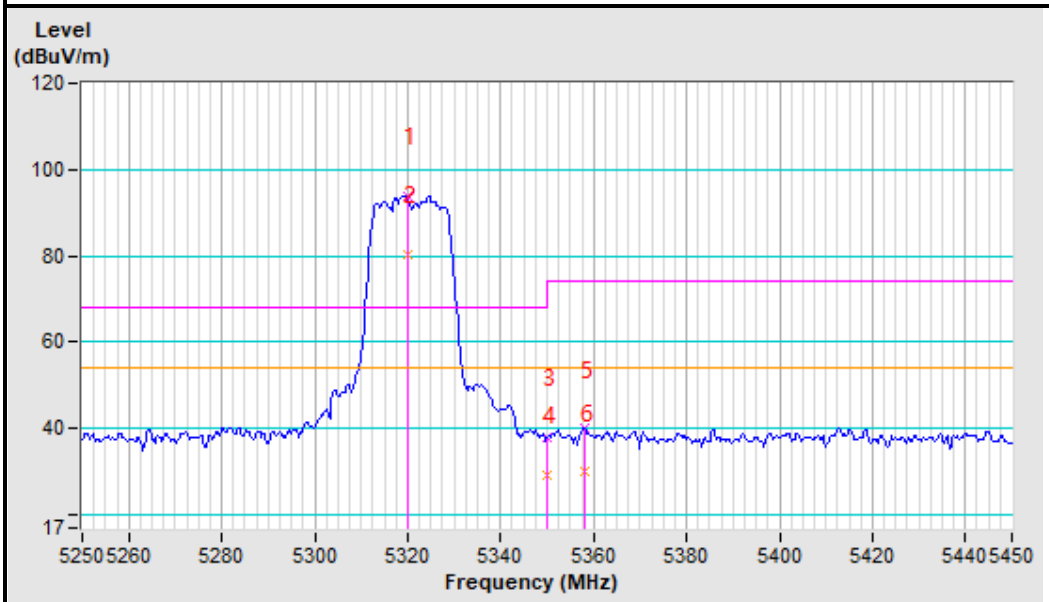
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	93.93 PK			1.02 H	230	88.32	5.61
2	*5320.00	80.41 AV			1.02 H	230	74.80	5.61
3	5350.00	38.06 PK	74.00	-35.94	1.02 H	230	32.44	5.62
4	5350.00	29.41 AV	54.00	-24.59	1.02 H	230	23.79	5.62
5	5358.10	39.95 PK	74.00	-34.05	1.02 H	230	34.33	5.62
6	5358.10	30.10 AV	54.00	-23.90	1.02 H	230	24.48	5.62
7	10640.00	53.36 PK	74.00	-20.64	1.00 H	215	39.17	14.19
8	10640.00	40.69 AV	54.00	-13.31	1.00 H	215	26.50	14.19
9	15960.00	59.74 PK	74.00	-14.26	1.03 H	32	13.02	46.72
10	15960.00	45.63 AV	54.00	-8.37	1.03 H	32	-1.09	46.72
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	*5320.00	97.35 PK			1.00 V	23	91.74	5.61
2	*5320.00	85.41 AV			1.00 V	23	79.80	5.61
3	5350.00	37.93 PK	74.00	-36.07	1.00 V	23	32.31	5.62
4	5350.00	28.90 AV	54.00	-25.10	1.00 V	23	23.28	5.62
5	5365.92	39.79 PK	74.00	-34.21	1.00 V	23	34.17	5.62
6	5365.92	30.44 AV	54.00	-23.56	1.00 V	23	24.82	5.62
7	10640.00	54.58 PK	74.00	-19.42	1.00 V	30	40.39	14.19
8	10640.00	41.36 AV	54.00	-12.64	1.00 V	30	27.17	14.19
9	15960.00	60.57 PK	74.00	-13.43	1.05 V	102	13.85	46.72
10	15960.00	46.57 AV	54.00	-7.43	1.05 V	102	-0.15	46.72

REMARKS:

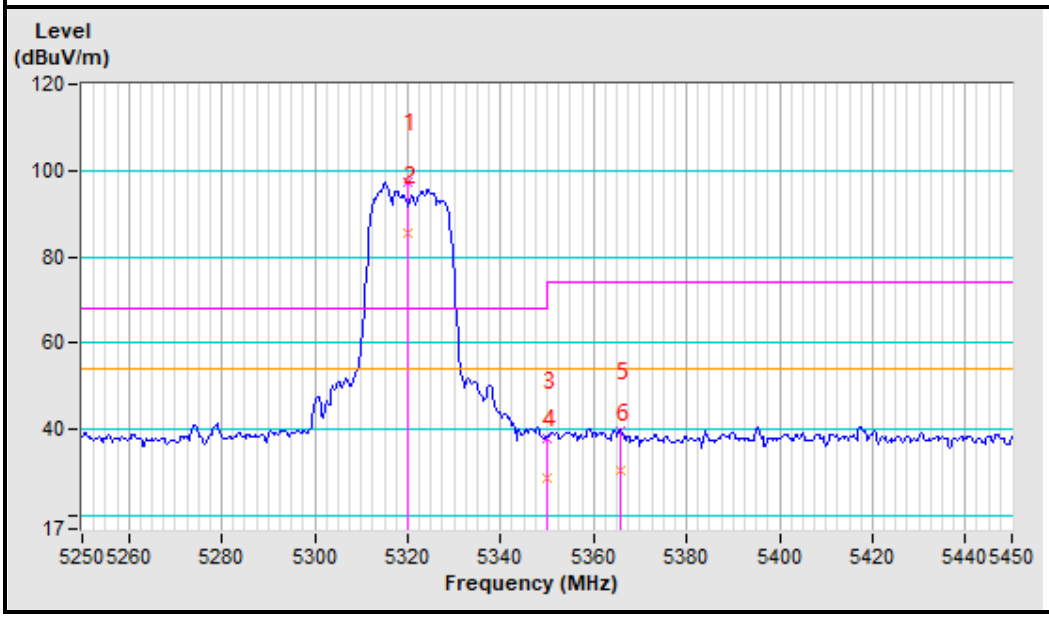
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5320MHz Horizontal



5320MHz Vertical



802.11n (20MHz)

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	5146.00	36.90 PK	74.00	-37.10	1.05 H	26	31.32	5.58
2	5146.00	28.02 AV	54.00	-25.98	1.05 H	26	22.44	5.58
3	5150.00	36.36 PK	74.00	-37.64	1.05 H	26	30.78	5.58
4	5150.00	27.41 AV	54.00	-26.59	1.05 H	26	21.83	5.58
5	*5260.00	93.20 PK			1.05 H	26	87.60	5.60
6	*5260.00	80.41 AV			1.05 H	26	74.81	5.60
7	5350.00	37.40 PK	74.00	-36.60	1.05 H	26	31.78	5.62
8	5350.00	28.69 AV	54.00	-25.31	1.05 H	26	23.07	5.62
9	5358.25	36.41 PK	74.00	-37.59	1.05 H	26	30.79	5.62
10	5358.25	27.68 AV	54.00	-26.32	1.05 H	26	22.06	5.62
11	#10520.00	54.20 PK	68.20	-14.00	1.06 H	63	40.31	13.89
12	15780.00	59.36 PK	74.00	-14.64	1.00 H	140	17.86	41.50
13	15780.00	45.70 AV	54.00	-8.30	1.00 H	140	4.20	41.50
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	5145.00	36.22 PK	74.00	-37.78	1.00 V	120	30.64	5.58
2	5145.00	27.69 AV	54.00	-26.31	1.00 V	120	22.11	5.58
3	5150.00	36.51 PK	74.00	-37.49	1.05 V	58	30.93	5.58
4	5150.00	27.11 AV	54.00	-26.89	1.05 V	58	21.53	5.58
5	*5260.00	90.62 PK			1.05 V	58	85.02	5.60
6	*5260.00	78.36 AV			1.05 V	58	72.76	5.60
7	5350.00	38.25 PK	74.00	-35.75	1.05 V	58	32.63	5.62
8	5350.00	29.10 AV	54.00	-24.90	1.05 V	58	23.48	5.62
9	5358.00	36.51 PK	74.00	-37.49	1.05 V	58	30.89	5.62
10	5358.00	27.88 AV	54.00	-26.12	1.05 V	58	22.26	5.62
11	#10520.00	53.36 PK	68.20	-14.84	1.00 V	269	39.47	13.89
12	15780.00	60.36 PK	74.00	-13.64	1.00 V	25	18.86	41.50
13	15780.00	46.51 AV	54.00	-7.49	1.00 V	25	5.01	41.50

REMARKS:

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

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	94.10 PK			1.00 H	211	94.79	-0.69
2	*5300.00	82.41 AV			1.00 H	211	83.10	-0.69
3	5350.00	35.26 PK	74.00	-38.74	1.00 H	211	35.95	-0.69
4	5350.00	26.44 AV	54.00	-27.56	1.00 H	211	27.13	-0.69
5	5359.00	37.41 PK	74.00	-36.59	1.00 H	211	38.10	-0.69
6	5359.00	28.55 AV	54.00	-25.45	1.00 H	211	29.24	-0.69
7	10600.00	54.36 PK	74.00	-19.64	1.00 H	74	55.05	-0.69
8	10600.00	42.51 AV	54.00	-11.49	1.00 H	74	43.20	-0.69
9	15900.00	61.36 PK	74.00	-12.64	1.05 H	50	62.05	-0.69
10	15900.00	46.74 AV	54.00	-7.26	1.05 H	50	47.43	-0.69
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	90.26 PK			1.50 V	215	84.65	5.61
2	*5300.00	78.69 AV			1.50 V	215	73.08	5.61
3	5350.00	37.25 PK	74.00	-36.75	1.50 V	215	31.63	5.62
4	5350.00	28.51 AV	54.00	-25.49	1.50 V	215	22.89	5.62
5	5357.00	38.51 PK	74.00	-35.49	1.50 V	215	32.89	5.62
6	5357.00	29.62 AV	54.00	-24.38	1.50 V	215	24.00	5.62
7	10600.00	53.36 PK	74.00	-20.64	1.02 V	21	39.27	14.09
8	10600.00	40.71 AV	54.00	-13.29	1.02 V	21	26.62	14.09
9	15900.00	58.36 PK	74.00	-15.64	1.20 V	316	13.38	44.98
10	15900.00	44.71 AV	54.00	-9.29	1.20 V	316	-0.27	44.98

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

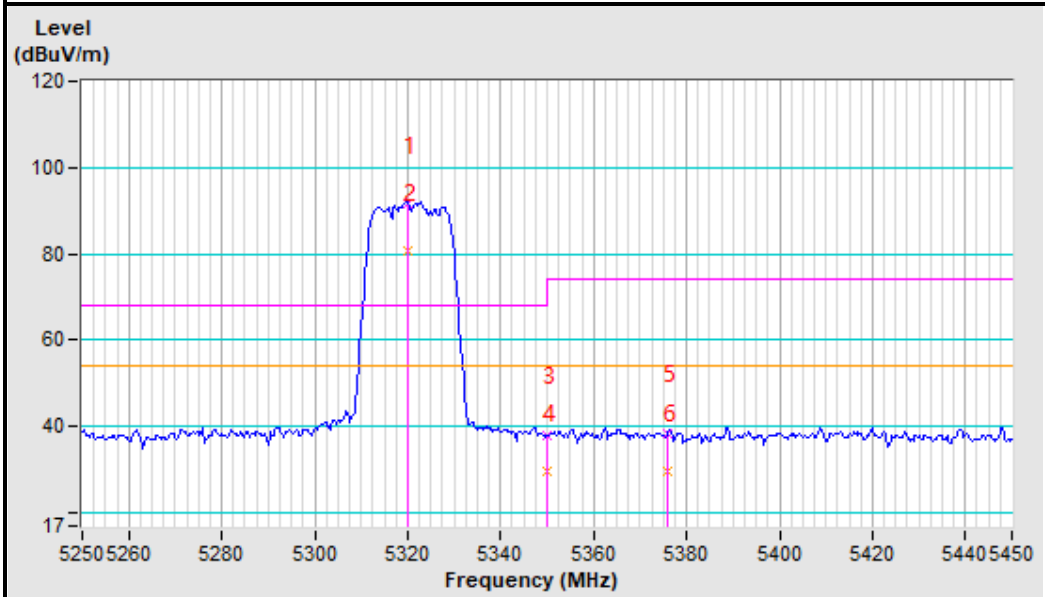
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	91.43 PK			1.20 H	213	85.82	5.61
2	*5320.00	80.66 AV			1.20 H	213	75.05	5.61
3	5350.00	38.01 PK	74.00	-35.99	1.20 H	213	32.39	5.62
4	5350.00	29.55 AV	54.00	-24.45	1.20 H	213	23.93	5.62
5	5376.02	38.51 PK	74.00	-35.49	1.20 H	213	32.89	5.62
6	5376.02	29.66 AV	54.00	-24.34	1.20 H	213	24.04	5.62
7	10640.00	55.26 PK	74.00	-18.74	1.00 H	215	41.07	14.19
8	10640.00	42.74 AV	54.00	-11.26	1.00 H	215	28.55	14.19
9	15960.00	59.22 PK	74.00	-14.78	1.00 H	215	12.50	46.72
10	15960.00	45.71 AV	54.00	-8.29	1.00 H	215	-1.01	46.72
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	*5320.00	96.22 PK			1.00 V	269	90.61	5.61
2	*5320.00	83.41 AV			1.00 V	269	77.80	5.61
3	5350.00	37.40 PK	74.00	-36.60	1.00 V	269	31.78	5.62
4	5350.00	28.50 AV	54.00	-25.50	1.00 V	269	22.88	5.62
5	5365.92	39.16 PK	74.00	-34.84	1.00 V	269	33.54	5.62
6	5365.92	30.52 AV	54.00	-23.48	1.00 V	269	24.90	5.62
7	10640.00	54.20 PK	74.00	-19.80	1.00 V	20	40.01	14.19
8	10640.00	41.69 AV	54.00	-12.31	1.00 V	20	27.50	14.19
9	15960.00	58.74 PK	74.00	-15.26	1.06 V	110	12.02	46.72
10	15960.00	45.10 AV	54.00	-8.90	1.06 V	110	-1.62	46.72

REMARKS:

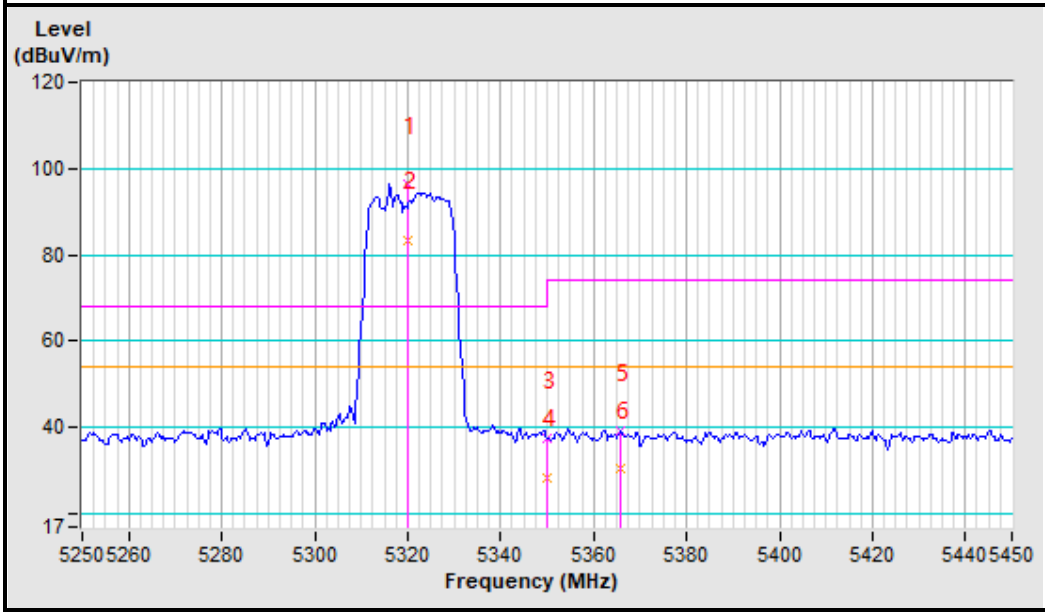
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5320MHz Horizontal



5320MHz Vertical



802.11n (40MHz)

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	93.62 PK			1.05 H	215	88.02	5.60
2	*5270.00	81.78 AV			1.05 H	215	76.18	5.60
3	5350.00	36.26 PK	74.00	-37.74	1.05 H	215	30.64	5.62
4	5350.00	27.44 AV	54.00	-26.56	1.05 H	215	21.82	5.62
5	5356.41	37.41 PK	74.00	-36.59	1.05 H	215	31.79	5.62
6	5356.41	28.69 AV	54.00	-25.31	1.05 H	215	23.07	5.62
7	#10540.00	51.25 PK	68.20	-16.95	1.00 H	0	37.31	13.94
8	15810.00	58.63 PK	74.00	-15.37	1.00 H	216	16.25	42.38
9	15810.00	44.72 AV	54.00	-9.28	1.00 H	216	2.34	42.38
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	95.26 PK			1.00 V	211	89.66	5.60
2	*5270.00	83.51 AV			1.00 V	211	77.91	5.60
3	5350.00	36.36 PK	74.00	-37.64	1.00 V	211	30.74	5.62
4	5350.00	27.69 AV	54.00	-26.31	1.00 V	211	22.07	5.62
5	5359.10	35.41 PK	74.00	-38.59	1.00 V	211	29.79	5.62
6	5359.10	26.59 AV	54.00	-27.41	1.00 V	211	20.97	5.62
7	#10540.00	53.62 PK	68.20	-14.58	1.02 V	201	39.68	13.94
8	15810.00	58.63 PK	74.00	-15.37	1.00 V	258	16.25	42.38
9	15810.00	44.71 AV	54.00	-9.29	1.00 V	258	2.33	42.38

REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

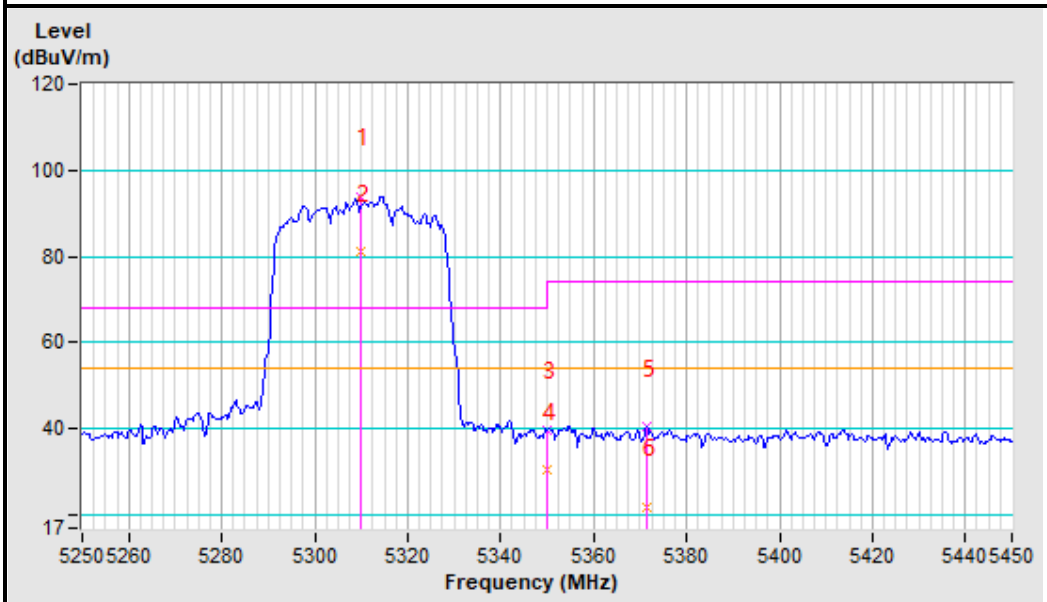
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	93.95 PK			1.20 H	266	88.34	5.61
2	*5310.00	81.02 AV			1.20 H	266	75.41	5.61
3	5350.00	39.86 PK	74.00	-34.14	1.20 H	256	34.24	5.62
4	5350.00	30.44 AV	54.00	-23.56	1.20 H	256	24.82	5.62
5	5371.42	40.54 PK	74.00	-33.46	1.20 H	256	34.91	5.63
6	5371.42	21.85 AV	54.00	-32.15	1.20 H	256	16.22	5.63
7	10620.00	53.34 PK	74.00	-20.66	1.00 H	101	39.20	14.14
8	10620.00	40.84 AV	54.00	-13.16	1.00 H	101	26.70	14.14
9	15930.00	57.69 PK	74.00	-16.31	1.20 H	50	11.85	45.84
10	15930.00	43.58 AV	54.00	-10.42	1.20 H	50	-2.26	45.84
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	96.40 PK			1.01 V	140	90.79	5.61
2	*5310.00	84.69 AV			1.01 V	140	79.08	5.61
3	5350.00	38.98 PK	74.00	-35.02	1.01 V	140	33.36	5.62
4	5350.00	29.45 AV	54.00	-24.55	1.01 V	140	23.83	5.62
5	5361.52	45.87 PK	74.00	-28.13	1.01 V	140	40.25	5.62
6	5361.52	32.69 AV	54.00	-21.31	1.01 V	140	27.07	5.62
7	10620.00	54.26 PK	74.00	-19.74	1.00 V	216	40.12	14.14
8	10620.00	41.36 AV	54.00	-12.64	1.00 V	216	27.22	14.14
9	15930.00	58.41 PK	74.00	-15.59	1.05 V	25	12.57	45.84
10	15930.00	44.96 AV	54.00	-9.04	1.05 V	25	-0.88	45.84

REMARKS:

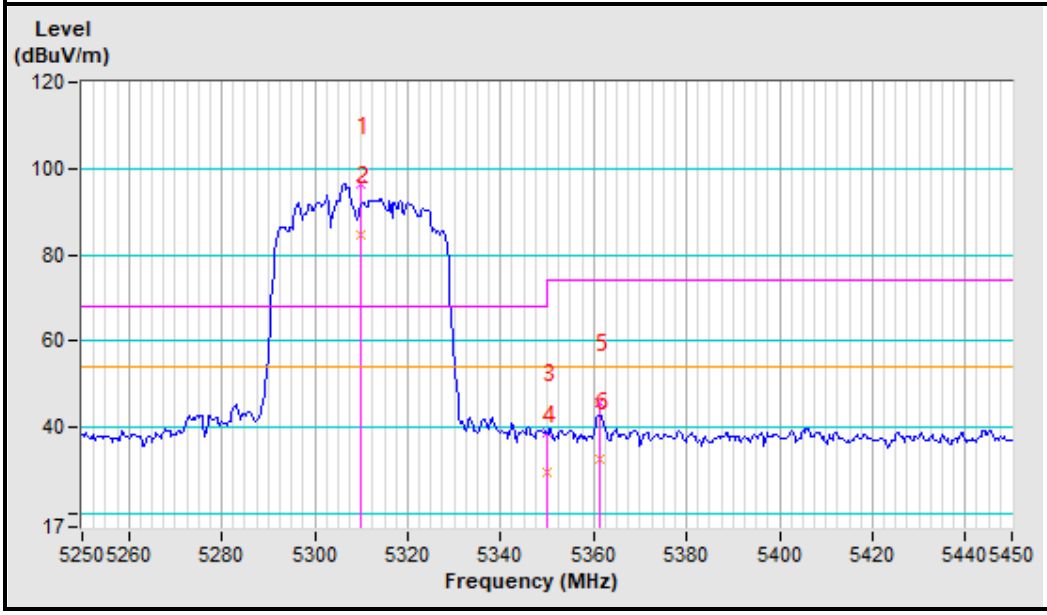
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5310MHz Horizontal



5310MHz Vertical



802.11ac 80MHz

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

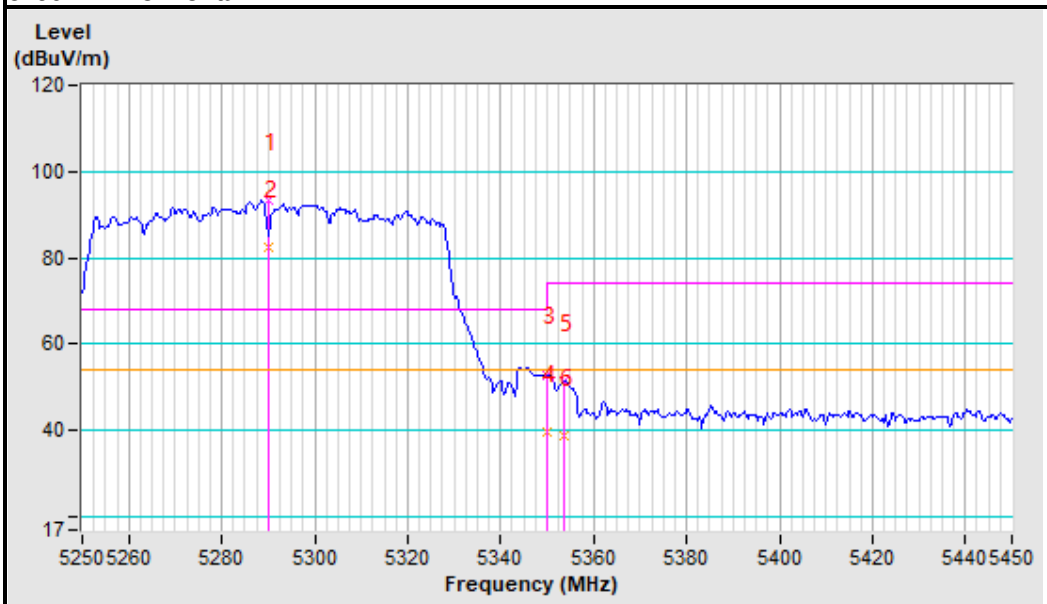
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	93.16 PK			1.00 H	210	87.55	5.61
2	*5290.00	82.44 AV			1.00 H	210	76.83	5.61
3	5350.00	52.82 PK	74.00	-21.18	1.00 H	210	47.20	5.62
4	5350.00	39.65 AV	54.00	-14.35	1.00 H	210	34.03	5.62
5	5353.47	51.41 PK	74.00	-22.59	1.00 H	210	45.79	5.62
6	5353.47	38.77 AV	54.00	-15.23	1.00 H	210	33.15	5.62
7	#10580.00	53.41 PK	68.20	-14.79	1.00 H	250	39.37	14.04
8	15870.00	60.36 PK	74.00	-13.64	1.00 H	210	16.25	44.11
9	15870.00	46.55 AV	54.00	-7.45	1.00 H	210	2.44	44.11
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	*5290.00	92.20 PK			1.00 V	269	86.59	5.61
2	*5290.00	80.54 AV			1.00 V	269	74.93	5.61
3	5350.00	47.09 PK	74.00	-26.91	1.00 V	269	41.47	5.62
4	5350.00	35.66 AV	54.00	-18.34	1.00 V	269	30.04	5.62
5	5358.39	47.64 PK	74.00	-26.36	1.00 V	269	42.02	5.62
6	5358.39	34.88 AV	54.00	-19.12	1.00 V	269	29.26	5.62
7	#10580.00	52.24 PK	68.20	-15.96	1.50 V	210	38.20	14.04
8	15870.00	59.66 PK	74.00	-14.34	1.02 V	59	15.55	44.11
9	15870.00	45.10 AV	54.00	-8.90	1.02 V	59	0.99	44.11

REMARKS:

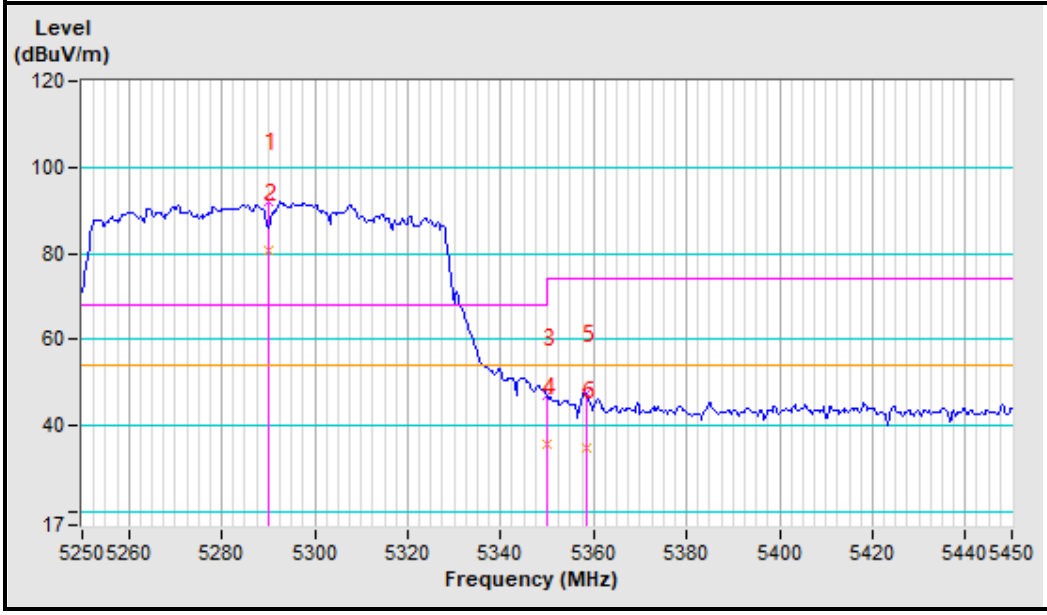
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5290MHz Horizontal



5290MHz Vertical



802.11ax (20MHz)

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	5147.20	47.36 PK	74.00	-26.64	1.04 H	215	41.78	5.58
2	5147.20	36.52 AV	54.00	-17.48	1.04 H	215	30.94	5.58
3	5150.00	45.26 PK	74.00	-28.74	1.04 H	215	39.68	5.58
4	5150.00	34.25 AV	54.00	-19.75	1.04 H	215	28.67	5.58
5	*5260.00	90.26 PK			1.04 H	215	84.66	5.60
6	*5260.00	80.33 AV			1.04 H	215	74.73	5.60
7	5350.00	56.36 PK	74.00	-17.64	1.04 H	215	50.74	5.62
8	5350.00	33.75 AV	54.00	-20.25	1.04 H	215	28.13	5.62
9	5359.50	57.58 PK	74.00	-16.42	1.04 H	216	51.96	5.62
10	5359.50	34.68 AV	54.00	-19.32	1.04 H	216	29.06	5.62
11	#10520.00	53.30 PK	68.20	-14.90	1.00 H	210	39.41	13.89
12	15780.00	60.36 PK	74.00	-13.64	1.00 H	96	18.86	41.50
13	15780.00	46.20 AV	54.00	-7.80	1.00 H	96	4.70	41.50
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	5143.63	45.25 PK	74.00	-28.75	1.20 V	26	39.67	5.58
2	5143.63	33.84 AV	54.00	-20.16	1.20 V	26	28.26	5.58
3	5150.00	46.36 PK	74.00	-27.64	1.20 V	26	40.78	5.58
4	5150.00	34.22 AV	54.00	-19.78	1.20 V	26	28.64	5.58
5	*5260.00	91.26 PK			1.20 V	26	85.66	5.60
6	*5260.00	80.66 AV			1.20 V	26	75.06	5.60
7	5350.00	46.36 PK	74.00	-27.64	1.20 V	26	40.74	5.62
8	5350.00	35.41 AV	54.00	-18.59	1.20 V	26	29.79	5.62
9	5358.00	45.26 PK	74.00	-28.74	1.20 V	26	39.64	5.62
10	5358.00	33.10 AV	54.00	-20.90	1.20 V	26	27.48	5.62
11	#10250.00	54.20 PK	68.20	-14.00	1.50 V	20	41.01	13.19
12	15780.00	60.36 PK	74.00	-13.64	1.01 V	140	18.86	41.50
13	15780.00	46.65 AV	54.00	-7.35	1.01 V	140	5.15	41.50

REMARKS:

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

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	93.20 PK			1.00 H	210	87.59	5.61
2	*5300.00	82.25 AV			1.00 H	210	76.64	5.61
3	5350.00	47.02 PK	74.00	-26.98	1.00 H	210	41.40	5.62
4	5350.00	34.69 AV	54.00	-19.31	1.00 H	210	29.07	5.62
5	5358.52	46.36 PK	74.00	-27.64	1.00 H	210	40.74	5.62
6	5358.52	33.51 AV	54.00	-20.49	1.00 H	210	27.89	5.62
7	10600.00	54.36 PK	74.00	-19.64	1.00 H	36	40.27	14.09
8	10600.00	41.02 AV	54.00	-12.98	1.00 H	36	26.93	14.09
9	15900.00	61.25 PK	74.00	-12.75	1.50 H	240	16.27	44.98
10	15900.00	46.57 AV	54.00	-7.43	1.50 H	240	1.59	44.98
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	*5300.00	94.26 PK			1.01 V	269	88.65	5.61
2	*5300.00	82.10 AV			1.01 V	269	76.49	5.61
3	5350.00	46.36 PK	74.00	-27.64	1.01 V	269	40.74	5.62
4	5350.00	33.10 AV	54.00	-20.90	1.01 V	269	27.48	5.62
5	5359.00	47.26 PK	74.00	-26.74	1.01 V	269	41.64	5.62
6	5359.00	35.20 AV	54.00	-18.80	1.01 V	269	29.58	5.62
7	10600.00	54.26 PK	74.00	-19.74	1.00 V	240	40.17	14.09
8	10600.00	42.36 AV	54.00	-11.64	1.00 V	240	28.27	14.09
9	15900.00	62.74 PK	74.00	-11.26	1.05 V	215	17.76	44.98
10	15900.00	47.66 AV	54.00	-6.34	1.05 V	215	2.68	44.98

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

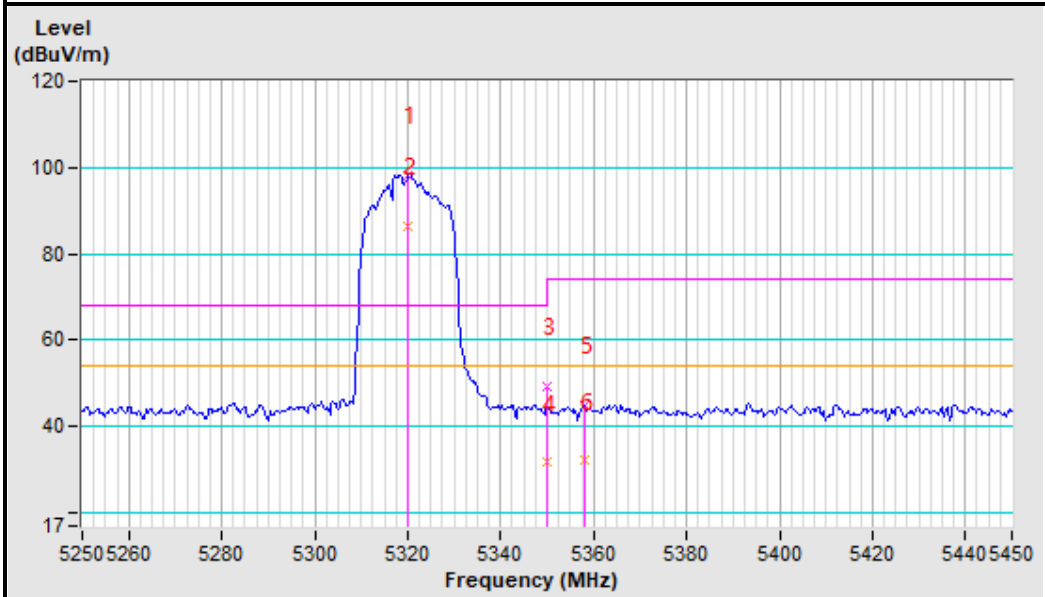
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	98.23 PK			1.20 H	230	92.62	5.61
2	*5320.00	86.51 AV			1.20 H	230	80.90	5.61
3	5350.00	49.49 PK	74.00	-24.51	1.20 H	250	43.87	5.62
4	5350.00	31.85 AV	54.00	-22.15	1.20 H	250	26.23	5.62
5	5358.10	45.08 PK	74.00	-28.92	1.20 H	250	39.46	5.62
6	5358.10	32.15 AV	54.00	-21.85	1.20 H	250	26.53	5.62
7	10640.00	56.36 PK	74.00	-17.64	1.00 H	36	42.17	14.19
8	10640.00	44.25 AV	54.00	-9.75	1.00 H	36	30.06	14.19
9	15960.00	61.89 PK	74.00	-12.11	1.02 H	55	15.17	46.72
10	15960.00	47.68 AV	54.00	-6.32	1.02 H	55	0.96	46.72
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	*5320.00	96.01 PK			1.00 V	240	90.40	5.61
2	*5320.00	84.55 AV			1.00 V	240	78.94	5.61
3	5350.00	42.69 PK	74.00	-31.31	1.00 V	240	37.07	5.62
4	5350.00	30.14 AV	54.00	-23.86	1.00 V	240	24.52	5.62
5	5358.68	43.91 PK	74.00	-30.09	1.00 V	240	38.29	5.62
6	5358.68	31.66 AV	54.00	-22.34	1.00 V	240	26.04	5.62
7	10640.00	55.40 PK	74.00	-18.60	1.00 V	216	41.21	14.19
8	10640.00	43.36 AV	54.00	-10.64	1.00 V	216	29.17	14.19
9	15960.00	61.36 PK	74.00	-12.64	1.06 V	69	14.64	46.72
10	15960.00	47.55 AV	54.00	-6.45	1.06 V	69	0.83	46.72

REMARKS:

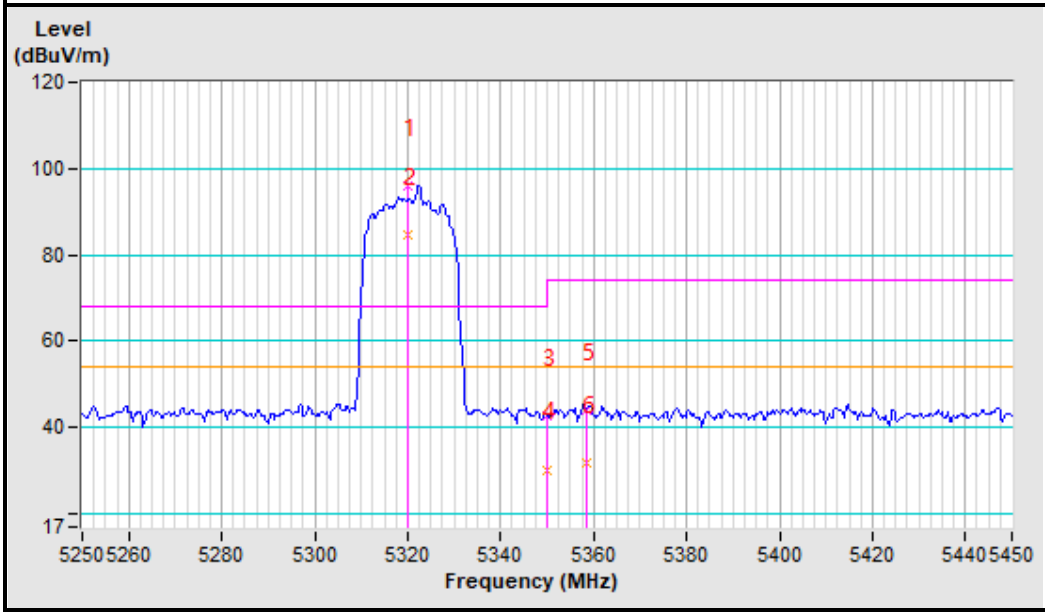
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5320MHz Horizontal



5320MHz Vertical



802.11n (40MHz)

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	98.36 PK			1.20 H	266	92.76	5.60
2	*5270.00	87.41 AV			1.20 H	266	81.81	5.60
3	5350.00	44.36 PK	74.00	-29.64	1.20 H	266	38.74	5.62
4	5350.00	32.15 AV	54.00	-21.85	1.20 H	266	26.53	5.62
5	5358.25	46.36 PK	74.00	-27.64	1.20 H	266	40.74	5.62
6	5358.25	33.11 AV	54.00	-20.89	1.20 H	266	27.49	5.62
7	#10540.00	50.36 PK	68.20	-17.84	1.20 H	269	36.42	13.94
8	15810.00	58.63 PK	74.00	-15.37	1.58 H	62	16.25	42.38
9	15810.00	44.40 AV	54.00	-9.60	1.58 H	62	2.02	42.38
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	96.25 PK			1.02 V	269	90.65	5.60
2	*5270.00	84.55 AV			1.02 V	269	78.95	5.60
3	5350.00	43.36 PK	74.00	-30.64	1.02 V	269	37.74	5.62
4	5350.00	30.69 AV	54.00	-23.31	1.02 V	269	25.07	5.62
5	5358.10	45.36 PK	74.00	-28.64	1.02 V	269	39.74	5.62
6	5358.10	32.68 AV	54.00	-21.32	1.02 V	269	27.06	5.62
7	#10540.00	52.03 PK	68.20	-16.17	1.00 V	226	38.09	13.94
8	15810.00	57.36 PK	74.00	-16.64	1.06 V	69	14.98	42.38
9	15810.00	42.36 AV	54.00	-11.64	1.06 V	69	-0.02	42.38

REMARKS:

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 less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental frequency.

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

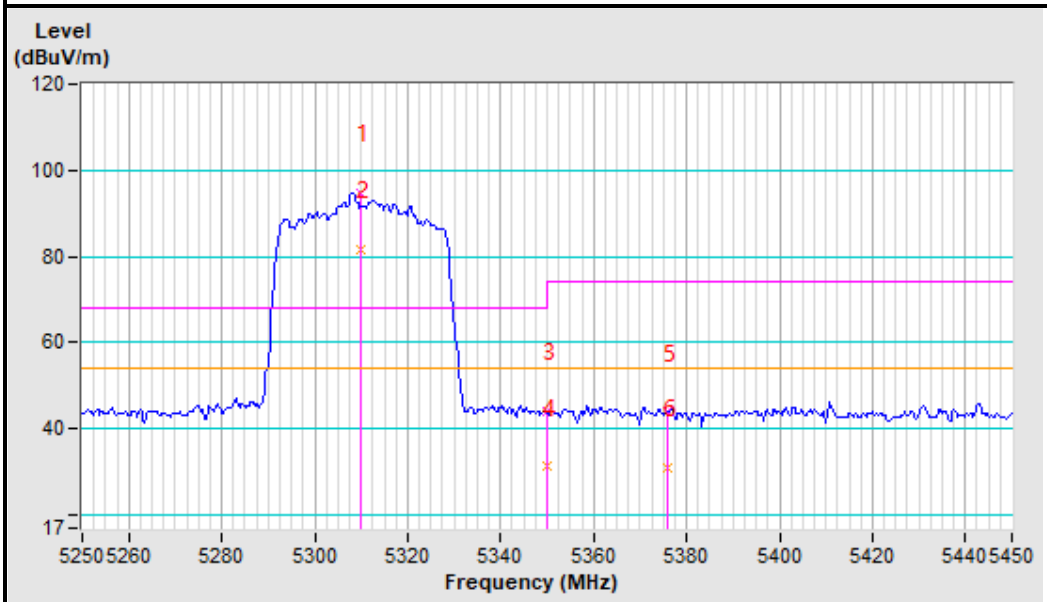
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	94.71 PK			1.02 H	266	89.10	5.61
2	*5310.00	81.69 AV			1.02 H	266	76.08	5.61
3	5350.00	44.21 PK	74.00	-29.79	1.02 H	266	38.59	5.62
4	5350.00	31.26 AV	54.00	-22.74	1.02 H	266	25.64	5.62
5	5375.76	43.94 PK	74.00	-30.06	1.02 H	266	38.32	5.62
6	5375.76	31.05 AV	54.00	-22.95	1.02 H	266	25.43	5.62
7	10620.00	54.36 PK	74.00	-19.64	1.02 H	214	40.22	14.14
8	10620.00	41.96 AV	54.00	-12.04	1.02 H	214	27.82	14.14
9	15930.00	59.36 PK	74.00	-14.64	1.06 H	69	13.52	45.84
10	15930.00	45.84 AV	54.00	-8.16	1.06 H	69	0.00	45.84
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	94.62 PK			1.00 V	257	89.01	5.61
2	*5310.00	82.41 AV			1.00 V	257	76.80	5.61
3	5350.00	43.39 PK	74.00	-30.61	1.00 V	257	37.77	5.62
4	5350.00	31.58 AV	54.00	-22.42	1.00 V	257	25.96	5.62
5	5374.89	45.04 PK	74.00	-28.96	1.00 V	257	39.41	5.63
6	5374.89	32.69 AV	54.00	-21.31	1.00 V	257	27.06	5.63
7	10620.00	53.77 PK	74.00	-20.23	1.00 V	69	39.63	14.14
8	10620.00	40.88 AV	54.00	-13.12	1.00 V	69	26.74	14.14
9	15930.00	58.62 PK	74.00	-15.38	1.02 V	70	12.78	45.84
10	15930.00	44.70 AV	54.00	-9.30	1.02 V	70	-1.14	45.84

REMARKS:

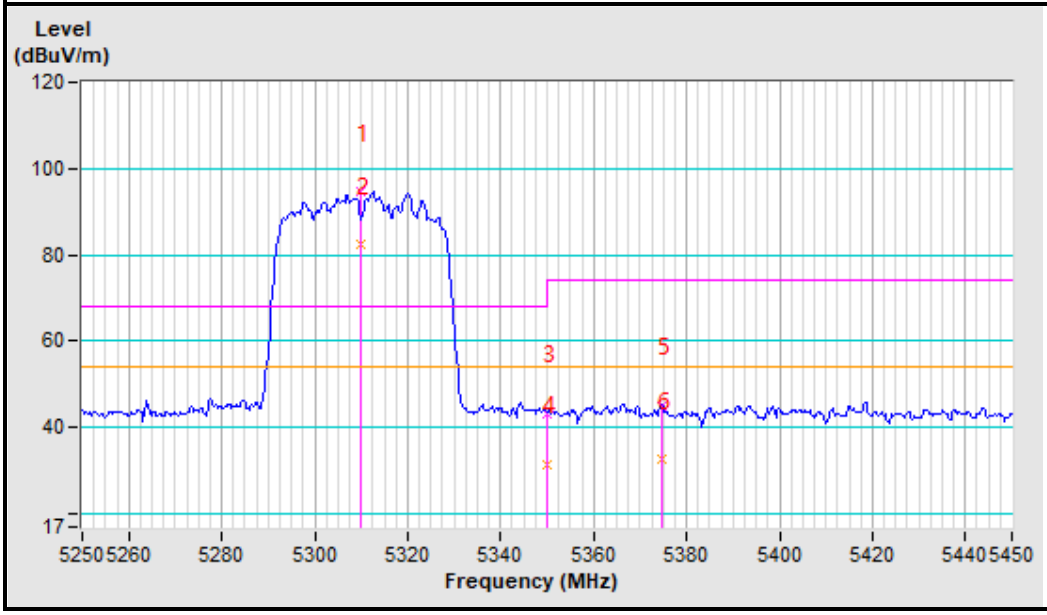
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5310MHz Horizontal



5310MHz Vertical



802.11ac 80MHz

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

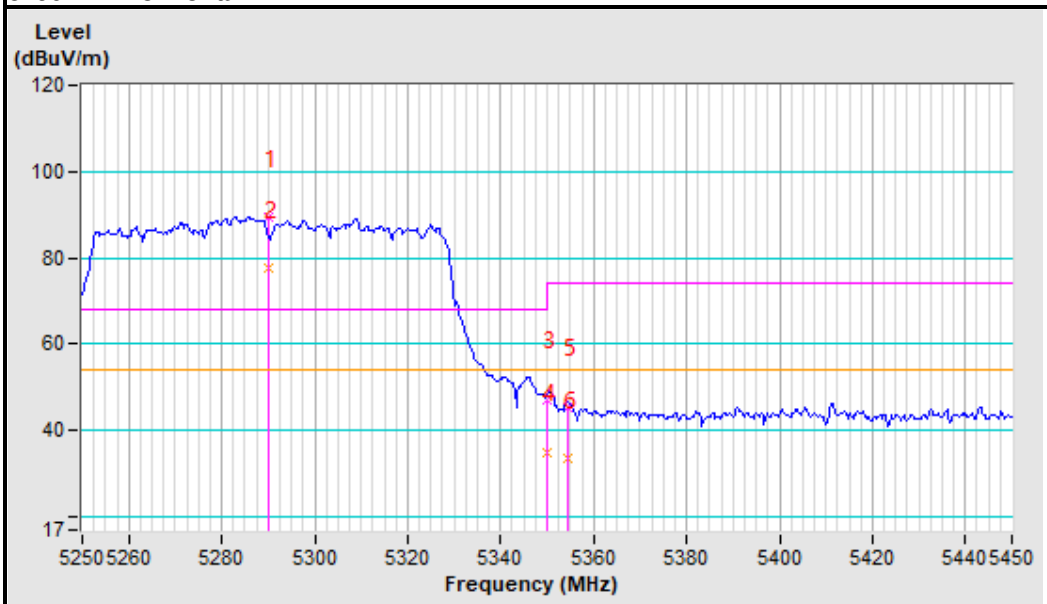
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	89.29 PK			1.20 H	258	83.68	5.61
2	*5290.00	77.56 AV			1.20 H	258	71.95	5.61
3	5350.00	47.28 PK	74.00	-26.72	1.20 H	258	41.66	5.62
4	5350.00	34.96 AV	54.00	-19.04	1.20 H	258	29.34	5.62
5	5354.34	45.58 PK	74.00	-28.42	1.20 H	258	39.95	5.63
6	5354.34	33.41 AV	54.00	-20.59	1.20 H	258	27.78	5.63
7	#10580.00	52.20 PK	68.20	-16.00	1.00 H	26	38.16	14.04
8	15870.00	57.36 PK	74.00	-16.64	1.00 H	96	13.25	44.11
9	15870.00	43.37 AV	54.00	-10.63	1.00 H	76	-0.74	44.11
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	*5290.00	90.76 PK			1.01 V	123	85.15	5.61
2	*5290.00	78.63 AV			1.01 V	123	73.02	5.61
3	5350.00	44.39 PK	74.00	-29.61	1.01 V	123	38.77	5.62
4	5350.00	31.41 AV	54.00	-22.59	1.01 V	123	25.79	5.62
5	5361.29	45.46 PK	74.00	-28.54	1.01 V	123	39.84	5.62
6	5361.29	32.95 AV	54.00	-21.05	1.01 V	123	27.33	5.62
7	#10580.00	52.24 PK	68.20	-15.96	1.50 V	210	38.20	14.04
8	15870.00	59.66 PK	74.00	-14.34	1.02 V	59	15.55	44.11
9	15870.00	44.56 AV	54.00	-9.44	1.02 V	59	0.45	44.11

REMARKS:

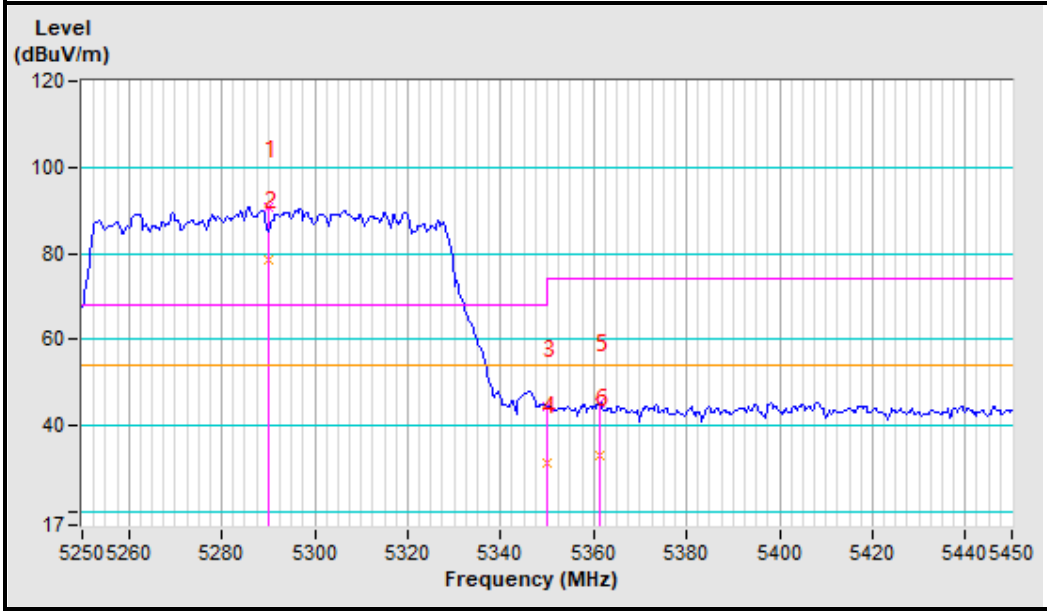
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5290MHz Horizontal



5290MHz Vertical



Band 3 (5470-5725MHz):

ABOVE 1GHz DATA

802.11a

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

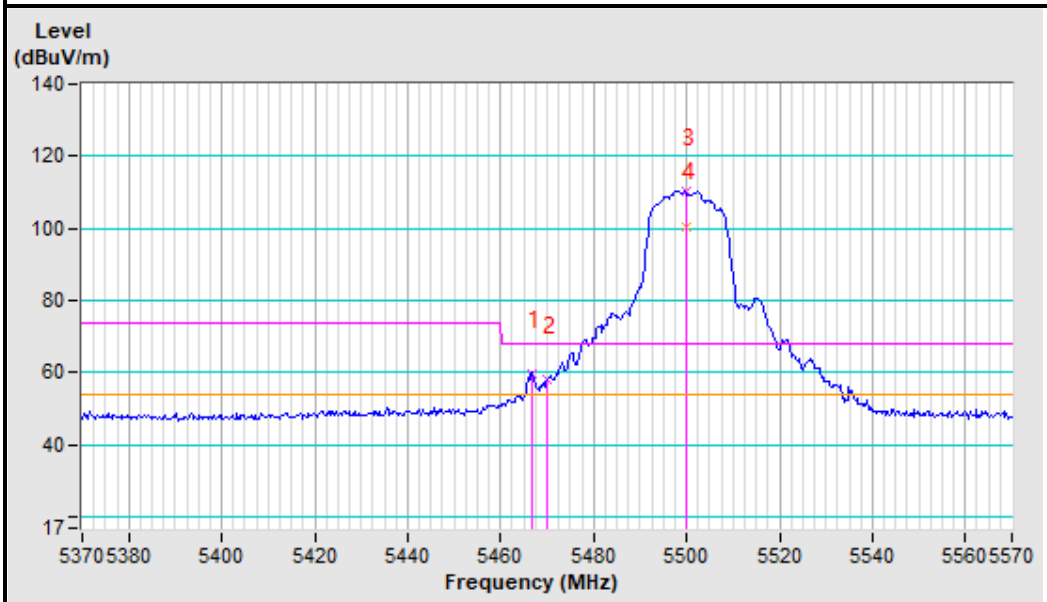
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#5466.82	59.63 PK	68.20	-8.57	1.00 H	27	53.87	5.76
2	#5470.00	58.07 PK	68.20	-10.13	1.00 H	27	52.31	5.76
3	*5500.00	110.24 PK			1.00 H	27	104.44	5.80
4	*5500.00	100.35 AV			1.00 H	27	94.55	5.80
5	11000.00	55.43 PK	74.00	-18.57	2.00 H	106	44.44	10.99
6	11000.00	41.76 AV	54.00	-12.24	2.00 H	106	30.77	10.99
7	#16500.00	61.29 PK	68.20	-6.91	1.00 H	235	42.62	18.67
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	61.81 PK	68.20	-6.39	1.05 V	223	56.05	5.76
2	#5470.00	58.26 PK	68.20	-9.94	1.05 V	223	52.50	5.76
3	*5500.00	113.52 PK			1.05 V	223	107.72	5.80
4	*5500.00	103.38 AV			1.05 V	223	97.58	5.80
5	11000.00	56.57 PK	74.00	-17.43	1.08 V	95	45.58	10.99
6	11000.00	42.33 AV	54.00	-11.67	1.08 V	95	31.34	10.99
7	#16500.00	62.61 PK	68.20	-5.59	1.00 V	75	43.94	18.67

REMARKS:

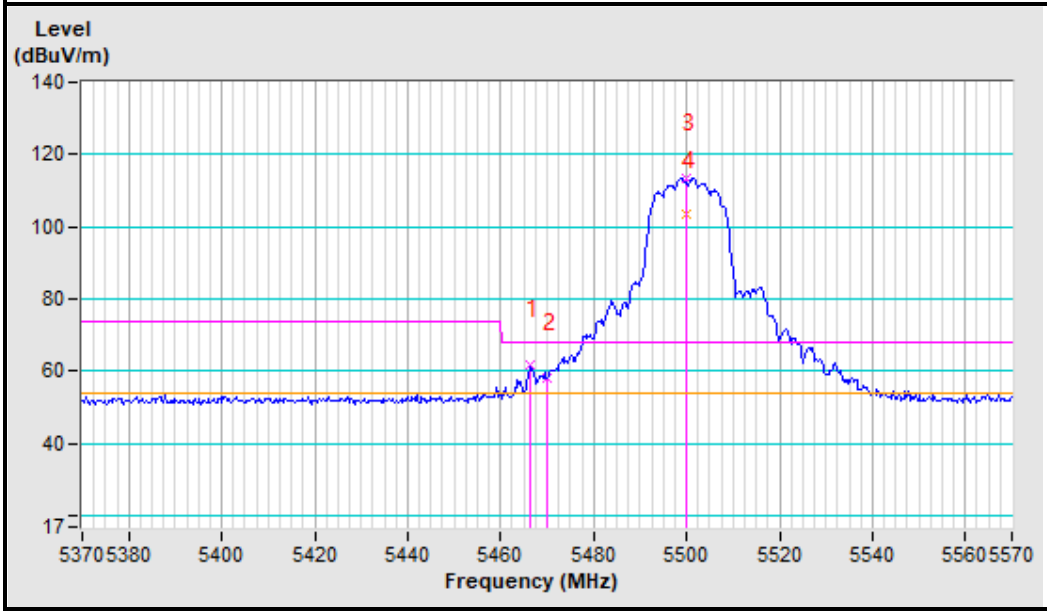
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5500MHz Horizontal



5500MHz Vertical



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	54.17 PK	68.20	-14.03	2.00 H	45	48.41	5.76
2	*5580.00	104.33 PK			2.00 H	45	98.41	5.92
3	*5580.00	94.25 AV			2.00 H	45	88.33	5.92
4	11160.00	55.16 PK	74.00	-18.84	1.00 H	239	43.24	11.92
5	11160.00	41.27 AV	54.00	-12.73	1.00 H	239	29.35	11.92
6	#16740.00	61.45 PK	68.20	-6.75	1.00 H	157	42.04	19.41
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	57.34 PK	68.20	-10.86	1.39 V	52	51.58	5.76
2	*5580.00	105.37 PK			1.39 V	52	99.45	5.92
3	*5580.00	95.43 AV			1.39 V	52	89.51	5.92
4	11160.00	56.29 PK	74.00	-17.71	2.00 V	236	44.37	11.92
5	11160.00	42.81 AV	54.00	-11.19	2.00 V	236	30.89	11.92
6	#16740.00	62.33 PK	68.20	-5.87	1.00 V	105	42.92	19.41

REMARKS:

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 less than 20dB margin against the limit.
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)

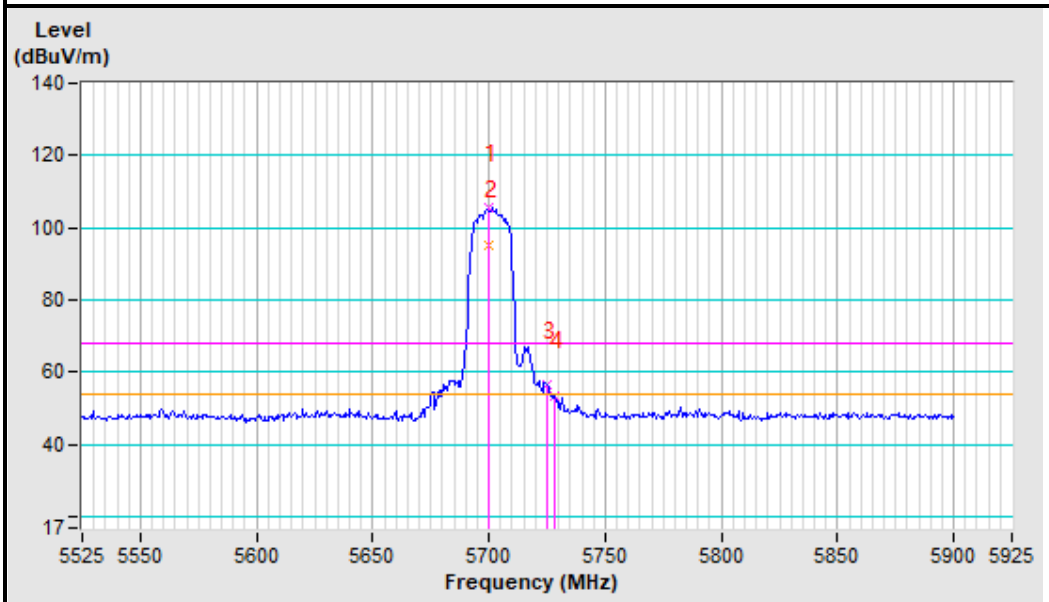
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	105.35 PK			1.97 H	251	99.24	6.11
2	*5700.00	95.17 AV			1.97 H	251	89.06	6.11
3	#5725.00	56.36 PK	68.20	-11.84	1.97 H	251	50.22	6.14
4	#5728.47	53.49 PK	68.20	-14.71	1.97 H	251	47.34	6.15
5	11400.00	55.27 PK	74.00	-18.73	2.00 H	305	41.97	13.30
6	11400.00	41.19 AV	54.00	-12.81	2.00 H	305	27.89	13.30
7	#17100.00	61.31 PK	68.20	-6.89	1.02 H	145	40.77	20.54
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	106.31 PK			1.08 V	95	100.20	6.11
2	*5700.00	96.89 AV			1.08 V	95	90.78	6.11
3	#5725.00	58.17 PK	68.20	-10.03	1.08 V	95	52.03	6.14
4	#5726.74	53.82 PK	68.20	-14.38	1.08 V	95	47.67	6.15
5	11400.00	56.91 PK	74.00	-17.09	1.18 V	254	43.61	13.30
6	11400.00	42.74 AV	54.00	-11.26	1.18 V	254	29.44	13.30
7	#17100.00	61.31 PK	68.20	-6.89	1.00 V	75	40.77	20.54

REMARKS:

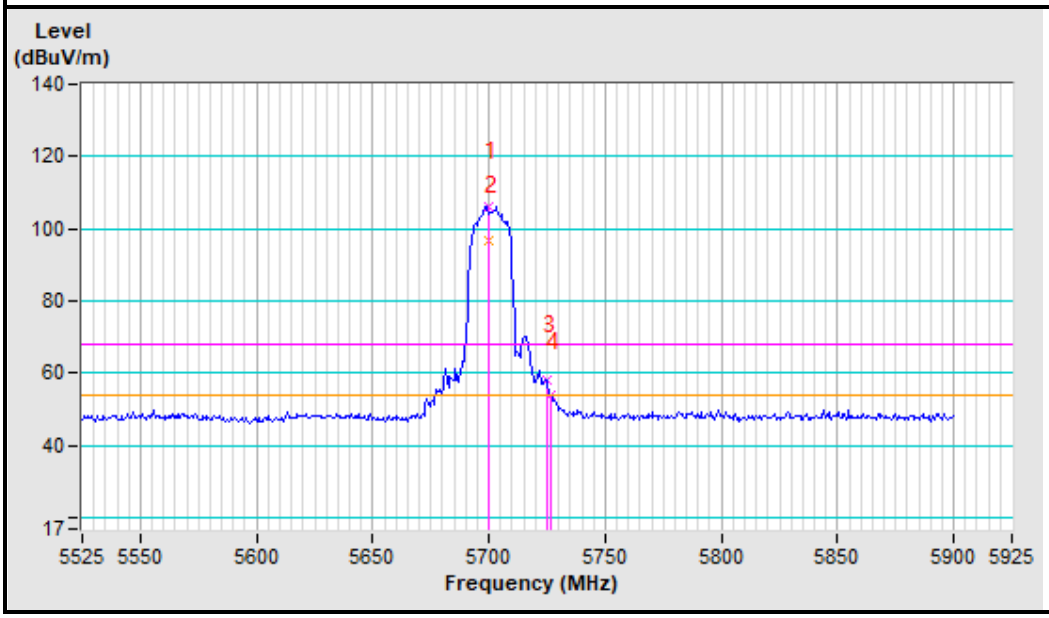
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5700MHz Horizontal



5700MHz Vertical



802.11n (20MHz)

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

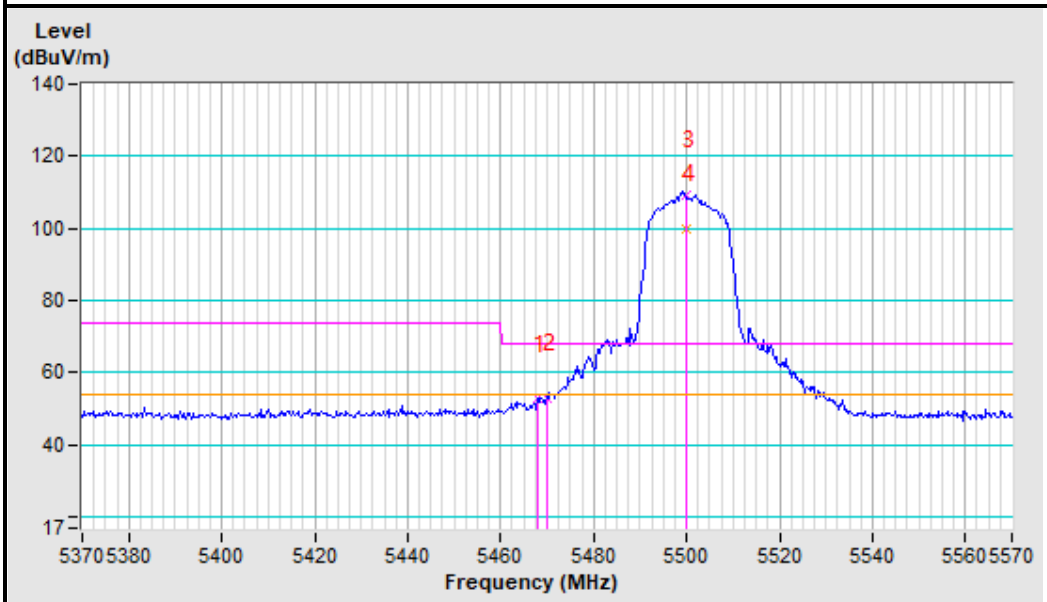
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5467.97	52.77 PK	68.20	-15.43	2.00 H	154	47.01	5.76
2	#5470.00	53.13 PK	68.20	-15.07	2.00 H	154	47.37	5.76
3	*5500.00	109.23 PK			2.00 H	154	103.43	5.80
4	*5500.00	99.89 AV			2.00 H	154	94.09	5.80
5	11000.00	55.95 PK	74.00	-18.05	1.08 H	299	44.96	10.99
6	11000.00	41.76 AV	54.00	-12.24	1.08 H	299	30.77	10.99
7	#16500.00	61.47 PK	68.20	-6.73	1.00 H	103	42.80	18.67
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	#5467.40	53.54 PK	68.20	-14.66	1.35 V	219	47.78	5.76
2	#5470.00	56.31 PK	68.20	-11.89	1.35 V	219	50.55	5.76
3	*5500.00	110.05 PK			1.35 V	219	104.25	5.80
4	*5500.00	100.41 AV			1.35 V	219	94.61	5.80
5	11000.00	57.01 PK	74.00	-16.99	1.17 V	254	46.02	10.99
6	11000.00	42.94 AV	54.00	-11.06	1.17 V	254	31.95	10.99
7	#16500.00	62.88 PK	68.20	-5.32	1.00 V	338	44.21	18.67

REMARKS:

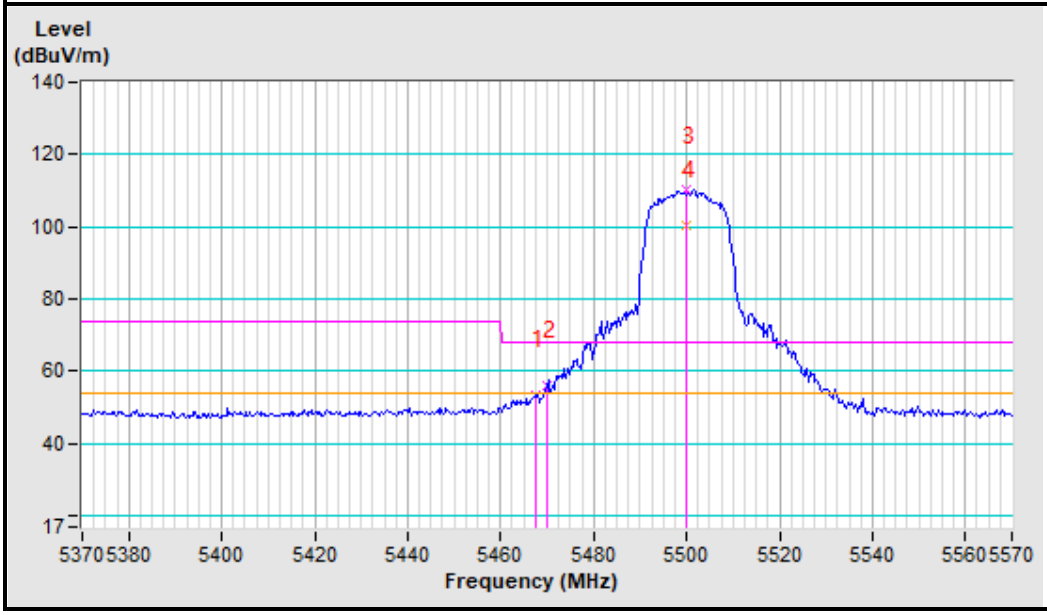
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5500MHz Horizontal



5500MHz Vertical



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	54.08 PK	68.20	-14.12	1.58 H	312	48.32	5.76
2	*5580.00	104.22 PK			1.58 H	312	98.30	5.92
3	*5580.00	94.49 AV			1.58 H	312	88.57	5.92
4	11160.00	55.33 PK	74.00	-18.67	1.05 H	239	43.41	11.92
5	11160.00	41.18 AV	54.00	-12.82	1.05 H	239	29.26	11.92
6	#16740.00	61.26 PK	68.20	-6.94	1.00 H	43	41.85	19.41
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	57.29 PK	68.20	-10.91	1.18 V	236	51.53	5.76
2	*5580.00	105.11 PK			1.18 V	236	99.19	5.92
3	*5580.00	95.34 AV			1.18 V	236	89.42	5.92
4	11160.00	56.47 PK	74.00	-17.53	1.75 V	43	44.55	11.92
5	11160.00	42.16 AV	54.00	-11.84	1.75 V	43	30.24	11.92
6	#16740.00	62.49 PK	68.20	-5.71	1.00 V	215	43.08	19.41

REMARKS:

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 less than 20dB margin against the limit.
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)

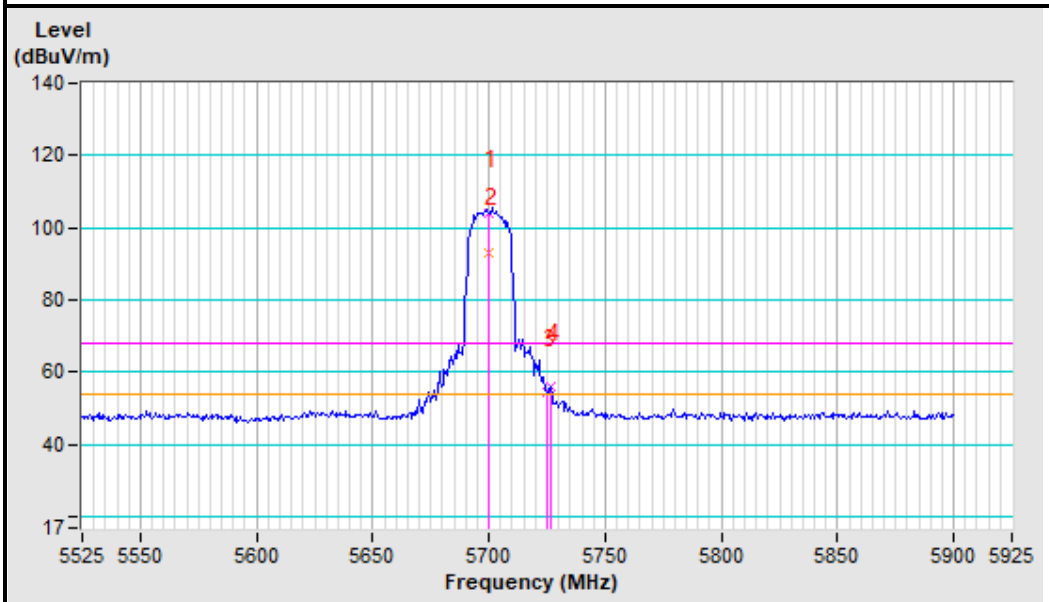
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.97 PK			1.13 H	251	97.86	6.11
2	*5700.00	93.26 AV			1.13 H	251	87.15	6.11
3	#5725.00	54.32 PK	68.20	-13.88	1.13 H	251	48.18	6.14
4	#5726.74	55.85 PK	68.20	-12.35	1.13 H	251	49.70	6.15
5	11400.00	55.13 PK	74.00	-18.87	1.09 H	58	41.83	13.30
6	11400.00	41.20 AV	54.00	-12.80	1.09 H	58	27.90	13.30
7	#17100.00	61.49 PK	68.20	-6.71	1.00 H	238	40.95	20.54
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	104.02 PK			1.18 V	251	97.91	6.11
2	*5700.00	94.28 AV			1.18 V	251	88.17	6.11
3	#5725.00	56.14 PK	68.20	-12.06	1.18 V	251	50.00	6.14
4	#5727.89	54.65 PK	68.20	-13.55	1.18 V	251	48.50	6.15
5	11400.00	56.89 PK	74.00	-17.11	1.75 V	214	43.59	13.30
6	11400.00	42.66 AV	54.00	-11.34	1.75 V	214	29.36	13.30
7	#17100.00	62.18 PK	68.20	-6.02	1.00 V	105	41.64	20.54

REMARKS:

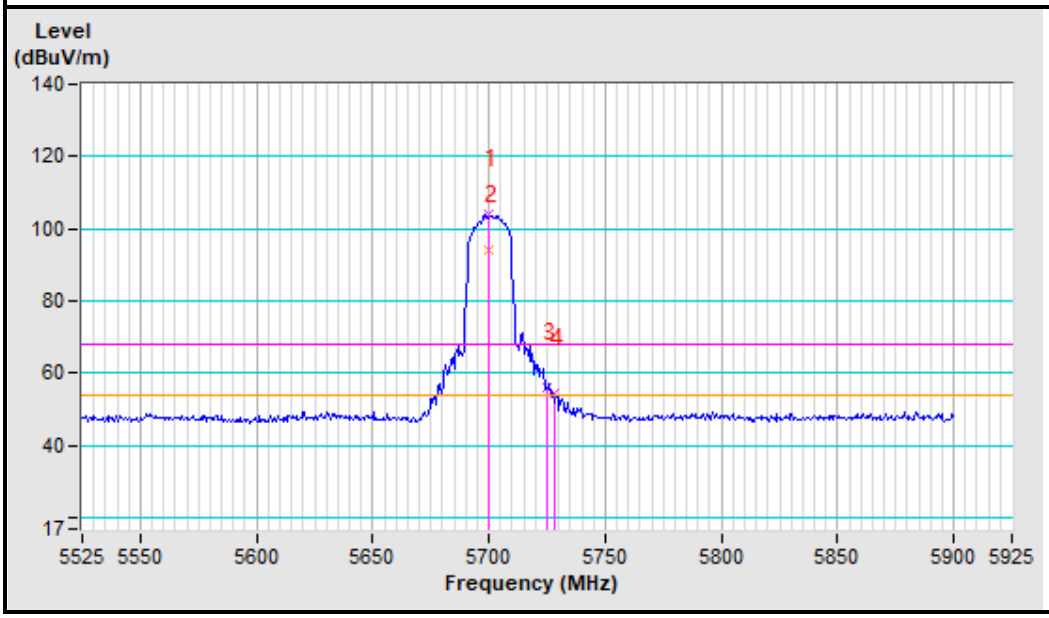
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5700MHz Horizontal



5700MHz Vertical



802.11n (40MHz)

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

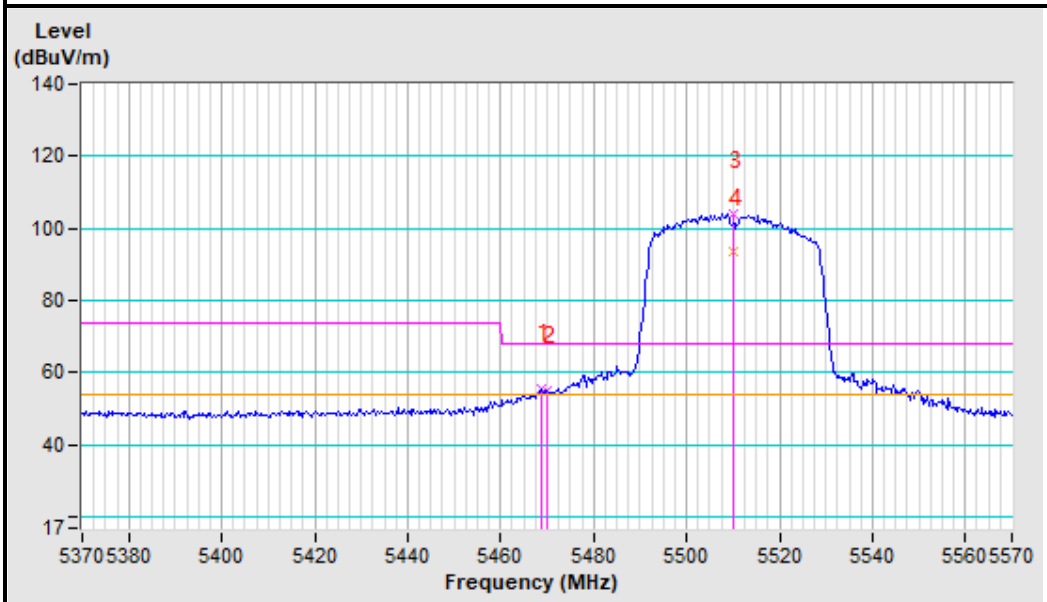
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5468.84	55.54 PK	68.20	-12.66	2.00 H	177	49.78	5.76
2	#5470.00	55.25 PK	68.20	-12.95	2.00 H	177	49.49	5.76
3	*5510.00	103.95 PK			2.00 H	177	98.14	5.81
4	*5510.00	93.44 AV			2.00 H	177	87.63	5.81
5	11020.00	55.63 PK	74.00	-18.37	1.08 H	96	44.53	11.10
6	11020.00	41.25 AV	54.00	-12.75	1.08 H	96	30.15	11.10
7	#16530.00	61.45 PK	68.20	-6.75	1.00 H	75	42.69	18.76
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	#5469.13	60.61 PK	68.20	-7.59	1.08 V	52	54.85	5.76
2	#5470.00	60.02 PK	68.20	-8.18	1.08 V	52	54.26	5.76
3	*5510.00	107.22 PK			1.08 V	52	101.41	5.81
4	*5510.00	97.29 AV			1.08 V	52	91.48	5.81
5	11020.00	56.84 PK	74.00	-17.16	1.58 V	236	45.74	11.10
6	11020.00	42.19 AV	54.00	-11.81	1.58 V	236	31.09	11.10
7	#16530.00	61.45 PK	68.20	-6.75	1.00 V	207	42.69	18.76

REMARKS:

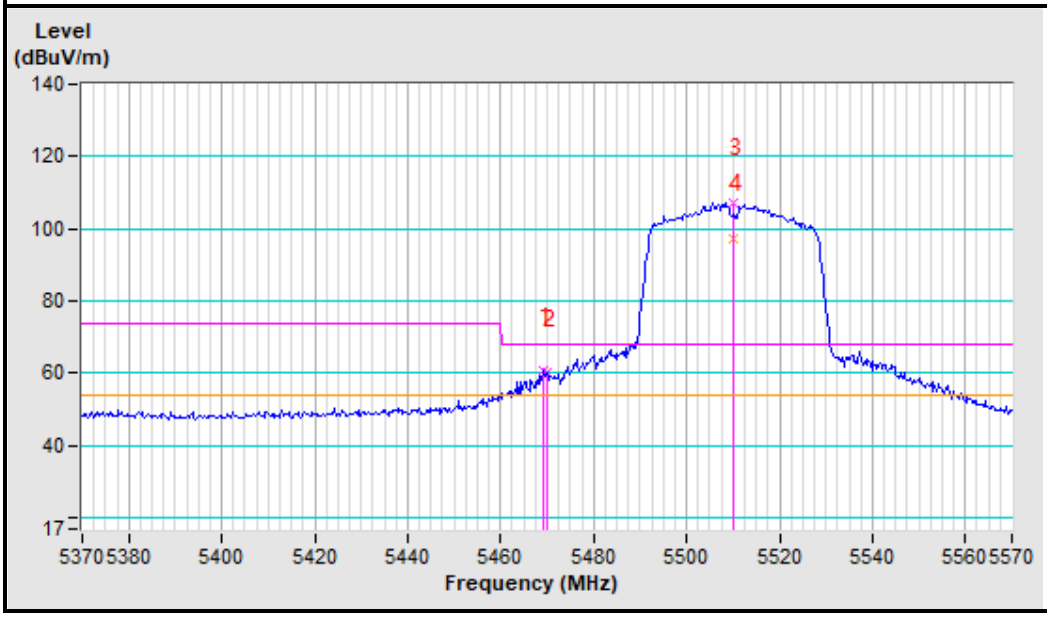
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	54.76 PK	68.20	-13.44	1.58 H	319	49.00	5.76
2	*5550.00	104.34 PK			1.58 H	319	98.47	5.87
3	*5550.00	94.29 AV			1.58 H	319	88.42	5.87
4	11100.00	55.27 PK	74.00	-18.73	1.03 H	254	43.71	11.56
5	11100.00	42.19 AV	54.00	-11.81	1.03 H	254	30.63	11.56
6	#16650.00	61.43 PK	68.20	-6.77	1.00 H	27	42.30	19.13
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	60.90 PK	68.20	-7.30	1.08 V	52	55.14	5.76
2	*5550.00	106.39 PK			1.08 V	52	100.52	5.87
3	*5550.00	96.52 AV			1.08 V	52	90.65	5.87
4	11100.00	56.71 PK	74.00	-17.29	1.14 V	312	45.15	11.56
5	11100.00	43.09 AV	54.00	-10.91	1.14 V	312	31.53	11.56
6	#16650.00	62.81 PK	68.20	-5.39	1.00 V	29	43.68	19.13

REMARKS:

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 less than 20dB margin against the limit.
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)

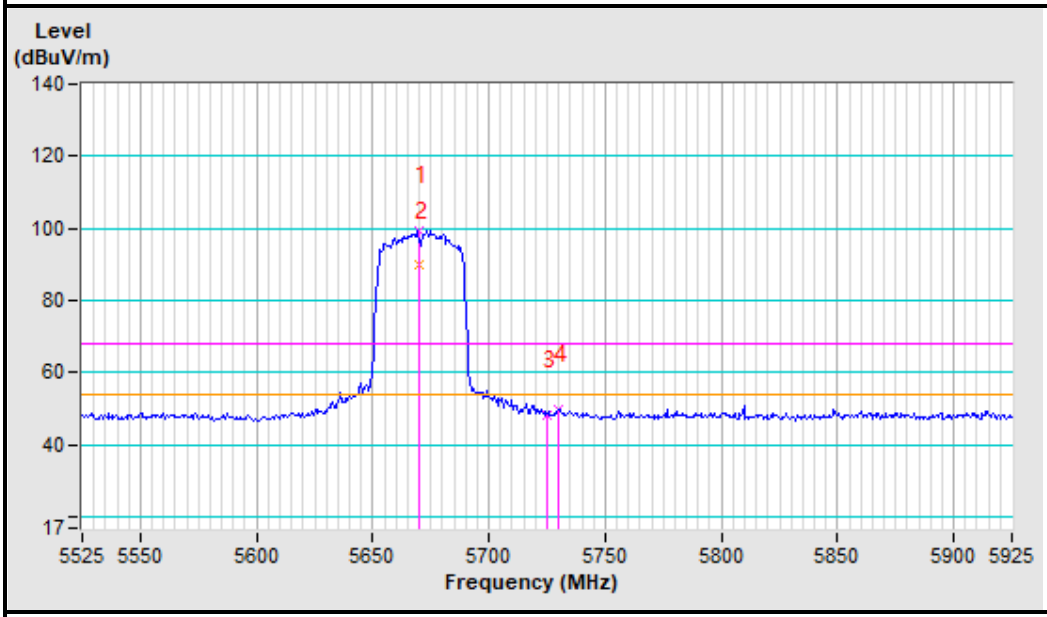
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	99.36 PK			1.08 H	335	93.30	6.06
2	*5670.00	89.75 AV			1.08 H	335	83.69	6.06
3	#5725.00	48.30 PK	68.20	-19.90	1.08 H	335	42.16	6.14
4	#5730.21	50.00 PK	68.20	-18.20	1.08 H	335	43.85	6.15
5	11340.00	56.22 PK	74.00	-17.78	1.09 H	155	43.28	12.94
6	11340.00	43.17 AV	54.00	-10.83	1.09 H	155	30.23	12.94
7	#17010.00	62.50 PK	68.20	-5.70	1.00 H	315	42.26	20.24
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	100.43 PK			1.25 V	169	94.37	6.06
2	*5670.00	90.39 AV			1.25 V	169	84.33	6.06
3	#5725.00	48.54 PK	68.20	-19.66	1.25 V	169	42.40	6.14
4	#5766.68	53.11 PK	68.20	-15.09	1.25 V	169	46.90	6.21
5	11340.00	57.39 PK	74.00	-16.61	1.53 V	203	44.45	12.94
6	11340.00	44.18 AV	54.00	-9.82	1.53 V	203	31.24	12.94
7	**#17010.00**	**63.09 PK**	**68.20**	**-5.11**	**1.00 V**	**75**	**42.85**	**20.24**

REMARKS:

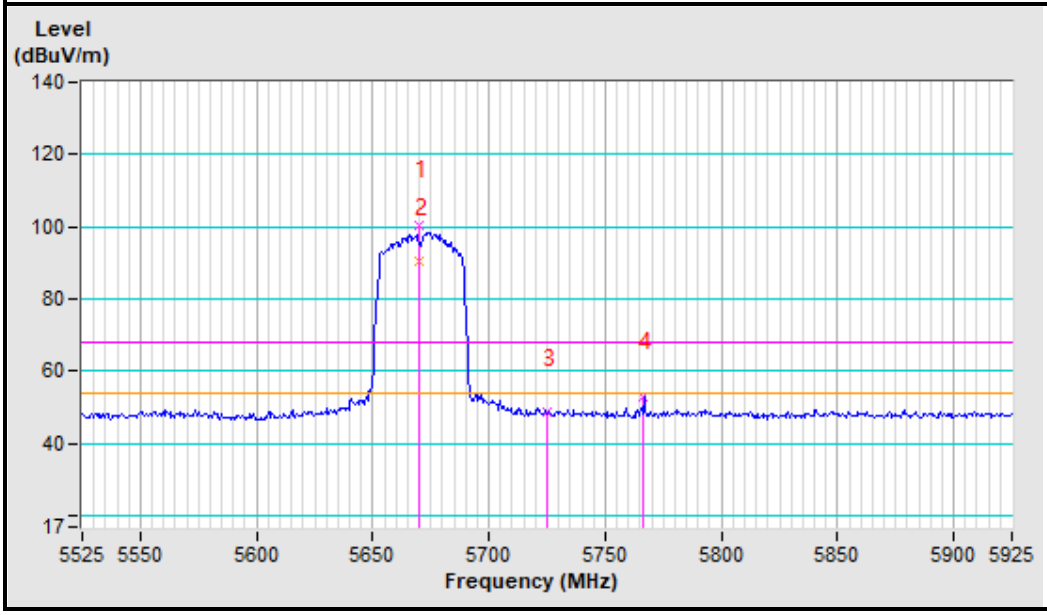
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

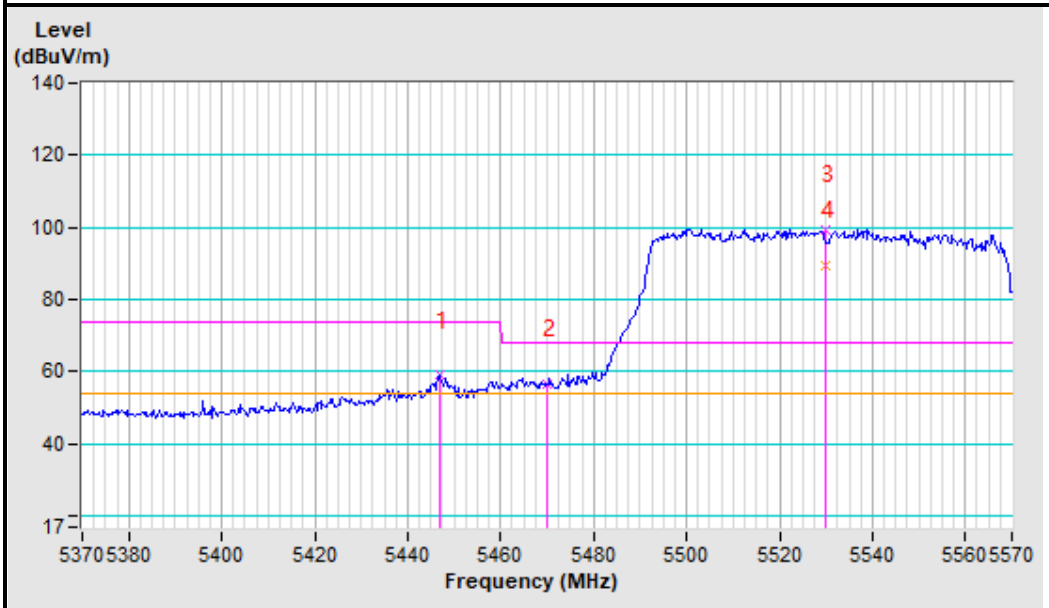
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5446.85	59.04 PK	74.00	-14.96	1.08 H	251	53.31	5.73
2	#5470.00	56.65 PK	68.20	-11.55	1.08 H	251	50.89	5.76
3	*5530.00	99.59 PK			1.08 H	251	93.75	5.84
4	*5530.00	89.46 AV			1.08 H	251	83.62	5.84
5	11060.00	55.23 PK	74.00	-18.77	1.08 H	336	43.90	11.33
6	11060.00	41.19 AV	54.00	-12.81	1.08 H	336	29.86	11.33
7	#16590.00	61.22 PK	68.20	-6.98	1.00 H	47	42.28	18.94
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	5447.71	60.57 PK	74.00	-13.43	2.00 V	125	54.84	5.73
2	#5470.00	57.34 PK	68.20	-10.86	2.00 V	125	51.58	5.76
3	*5530.00	101.16 PK			2.00 V	125	95.32	5.84
4	*5530.00	91.43 AV			2.00 V	125	85.59	5.84
5	11060.00	56.91 PK	74.00	-17.09	1.03 V	29	45.58	11.33
6	11060.00	42.44 AV	54.00	-11.56	1.03 V	29	31.11	11.33
7	#16590.00	62.19 PK	68.20	-6.01	1.00 V	144	43.25	18.94

REMARKS:

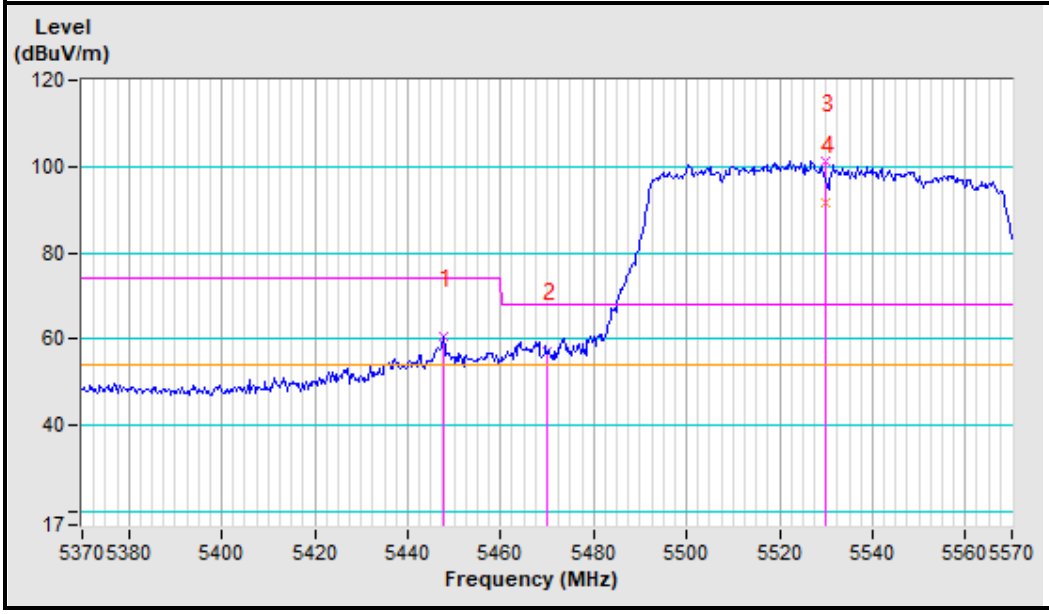
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5530MHz Horizontal



5530MHz Vertical



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

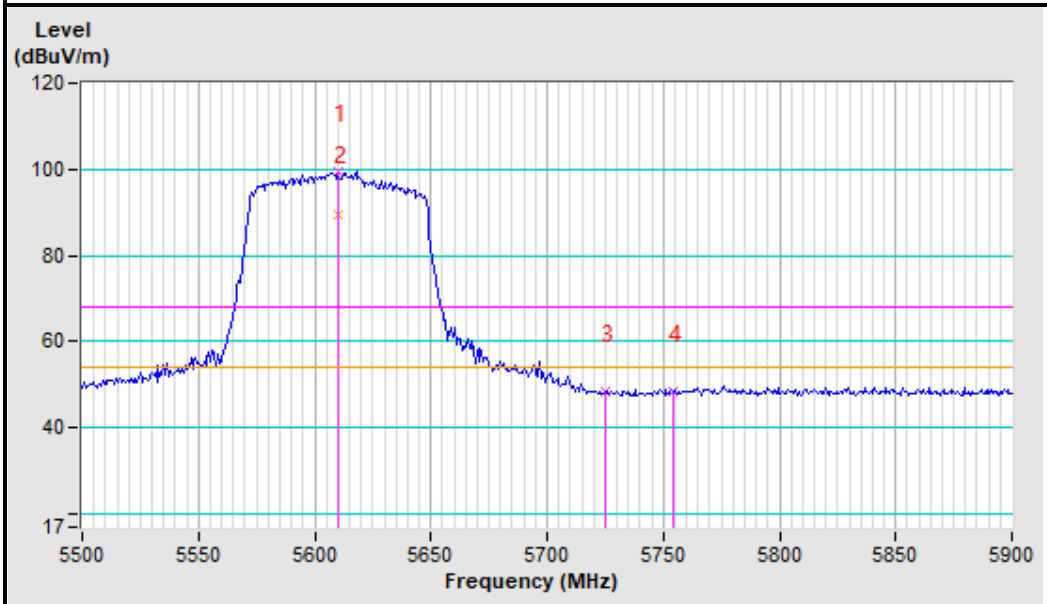
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	99.43 PK			1.20 H	215	93.47	5.96
2	*5610.00	89.50 AV			1.20 H	215	83.54	5.96
3	#5725.00	48.34 PK	68.20	-19.86	1.20 H	215	42.20	6.14
4	#5754.48	48.44 PK	68.20	-19.76	1.20 H	215	42.26	6.18
5	11220.00	52.36 PK	74.00	-21.64	1.00 H	269	40.10	12.26
6	11220.00	43.26 AV	54.00	-10.74	1.00 H	269	31.00	12.26
7	#16830.00	60.25 PK	68.20	-7.95	1.05 H	27	40.56	19.69
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	88.09 PK			1.00 V	230	82.13	5.96
2	*5610.00	78.36 AV			1.00 V	230	72.40	5.96
3	#5727.00	46.68 PK	68.20	-21.52	1.00 V	230	40.53	6.15
4	#5751.92	48.07 PK	68.20	-20.13	1.00 V	230	41.89	6.18
5	11220.00	51.02 PK	74.00	-22.98	1.00 V	52	38.76	12.26
6	11220.00	42.55 AV	54.00	-11.45	1.00 V	52	30.29	12.26
7	#16830.00	59.70 PK	68.20	-8.50	1.05 V	166	40.01	19.69

REMARKS:

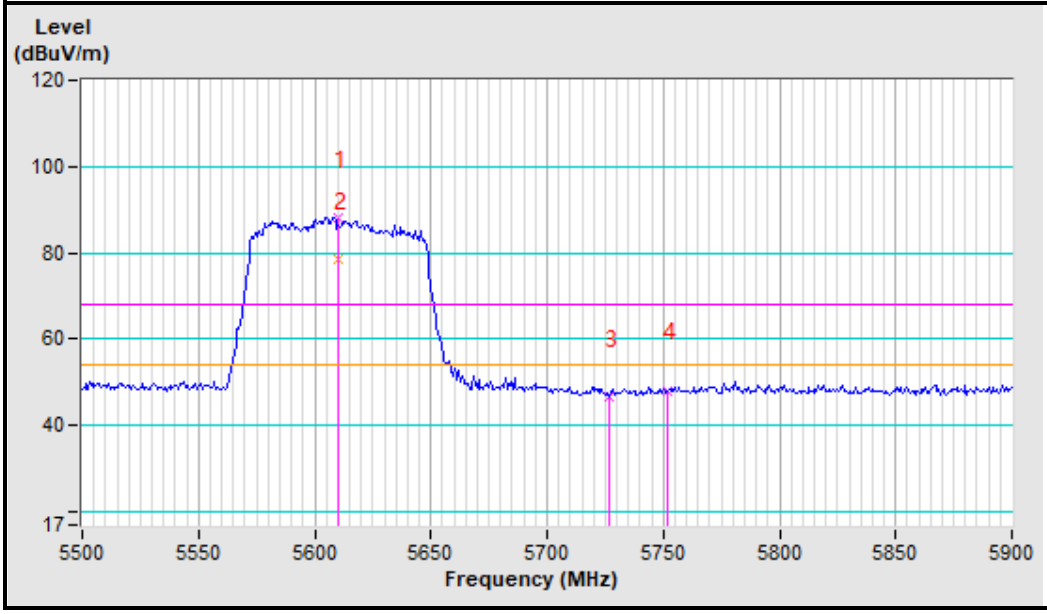
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5610MHz Horizontal



5610MHz Vertical



802.11ax (20MHz)

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

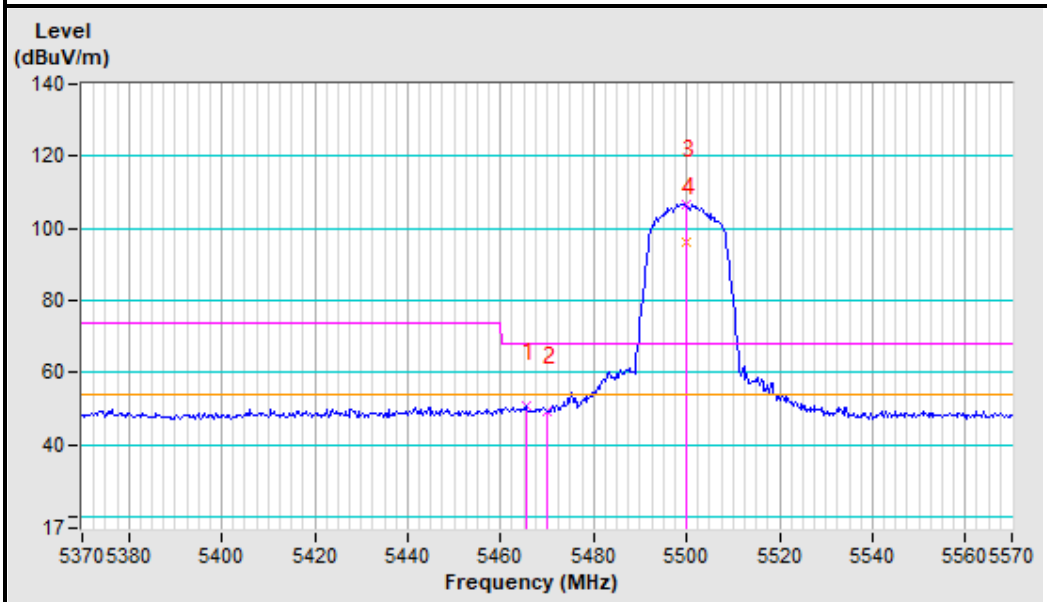
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5465.37	50.75 PK	68.20	-17.45	1.12 H	302	45.00	5.75
2	#5470.00	49.47 PK	68.20	-18.73	1.12 H	302	43.71	5.76
3	*5500.00	106.81 PK			1.12 H	302	101.01	5.80
4	*5500.00	96.43 AV			1.12 H	302	90.63	5.80
5	11000.00	56.39 PK	74.00	-17.61	1.58 H	219	45.40	10.99
6	11000.00	42.11 AV	54.00	-11.89	1.58 H	219	31.12	10.99
7	#16500.00	62.54 PK	68.20	-5.66	1.00 H	203	43.87	18.67
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	5456.69	50.28 PK	74.00	-23.72	1.08 V	96	44.54	5.74
2	#5470.00	49.10 PK	68.20	-19.10	1.08 V	96	43.34	5.76
3	*5500.00	105.10 PK			1.08 V	96	99.30	5.80
4	*5500.00	95.43 AV			1.08 V	96	89.63	5.80
5	11000.00	55.28 PK	74.00	-18.72	1.36 V	95	44.29	10.99
6	11000.00	41.17 AV	54.00	-12.83	1.36 V	95	30.18	10.99
7	#16500.00	61.29 PK	68.20	-6.91	1.00 V	45	42.62	18.67

REMARKS:

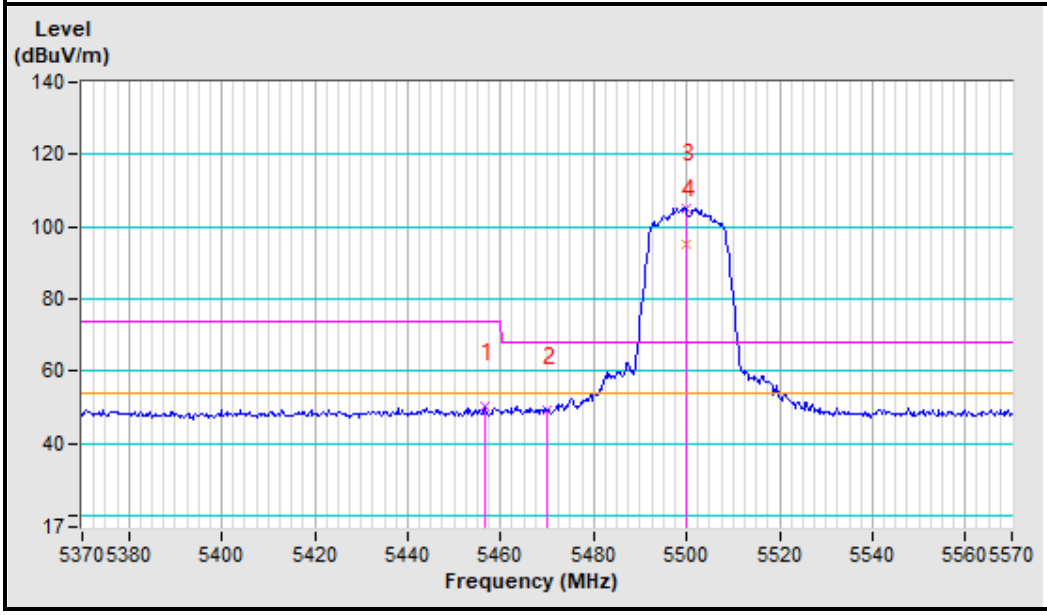
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5500MHz Horizontal



5500MHz Vertical



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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	53.16 PK	68.20	-15.04	1.45 H	202	47.40	5.76
2	*5580.00	103.97 PK			1.45 H	202	98.05	5.92
3	*5580.00	93.28 AV			1.45 H	202	87.36	5.92
4	11160.00	55.17 PK	74.00	-18.83	1.02 H	39	43.25	11.92
5	11160.00	41.11 AV	54.00	-12.89	1.02 H	39	29.19	11.92
6	#16740.00	61.20 PK	68.20	-7.00	1.00 H	20	41.79	19.41
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	56.29 PK	68.20	-11.91	1.12 V	301	50.53	5.76
2	*5580.00	105.46 PK			1.12 V	301	99.54	5.92
3	*5580.00	95.31 AV			1.12 V	301	89.39	5.92
4	11160.00	56.43 PK	74.00	-17.57	1.05 V	257	44.51	11.92
5	11160.00	42.01 AV	54.00	-11.99	1.05 V	257	30.09	11.92
6	#16740.00	62.19 PK	68.20	-6.01	1.00 V	97	42.78	19.41

REMARKS:

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 less than 20dB margin against the limit.
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)

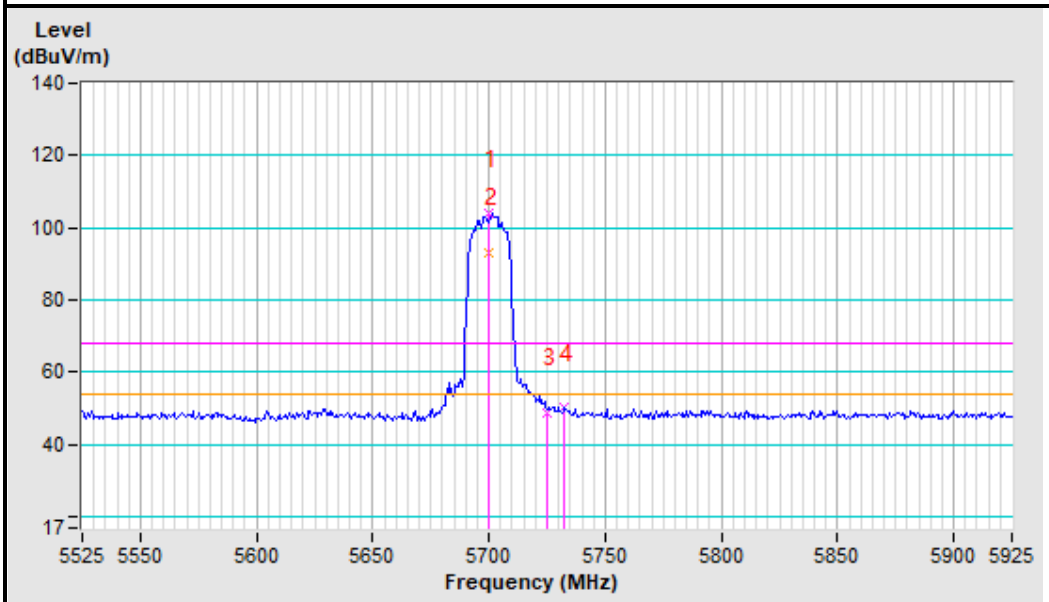
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	103.95 PK			1.15 H	24	97.84	6.11
2	*5700.00	93.22 AV			1.15 H	24	87.11	6.11
3	#5725.00	48.97 PK	68.20	-19.23	1.15 H	24	42.83	6.14
4	#5732.53	50.27 PK	68.20	-17.93	1.15 H	24	44.12	6.15
5	11400.00	55.38 PK	74.00	-18.62	2.00 H	203	42.08	13.30
6	11400.00	41.19 AV	54.00	-12.81	2.00 H	203	27.89	13.30
7	#17100.00	61.44 PK	68.20	-6.76	1.00 H	312	40.90	20.54
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	104.09 PK			1.12 V	204	97.98	6.11
2	*5700.00	94.81 AV			1.12 V	204	88.70	6.11
3	#5725.00	49.05 PK	68.20	-19.15	1.12 V	204	42.91	6.14
4	#5733.10	48.90 PK	68.20	-19.30	1.12 V	204	42.75	6.15
5	11400.00	56.92 PK	74.00	-17.08	1.00 V	32	43.62	13.30
6	11400.00	42.89 AV	54.00	-11.11	1.00 V	32	29.59	13.30
7	#17100.00	62.77 PK	68.20	-5.43	1.00 V	251	42.23	20.54

REMARKS:

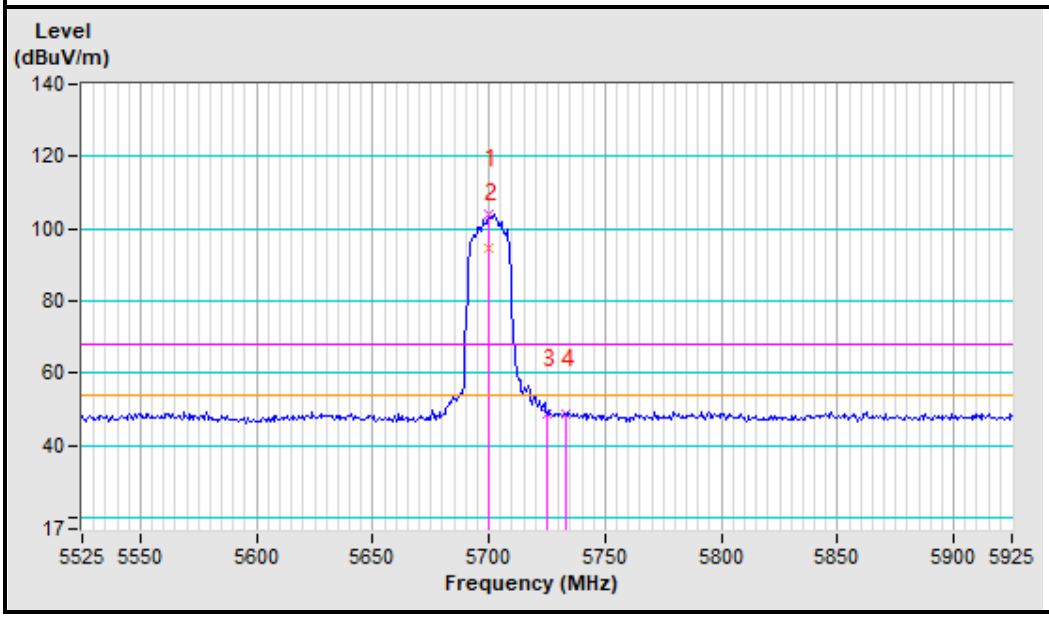
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5700MHz Horizontal



5700MHz Vertical



802.11ax (40MHz)

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

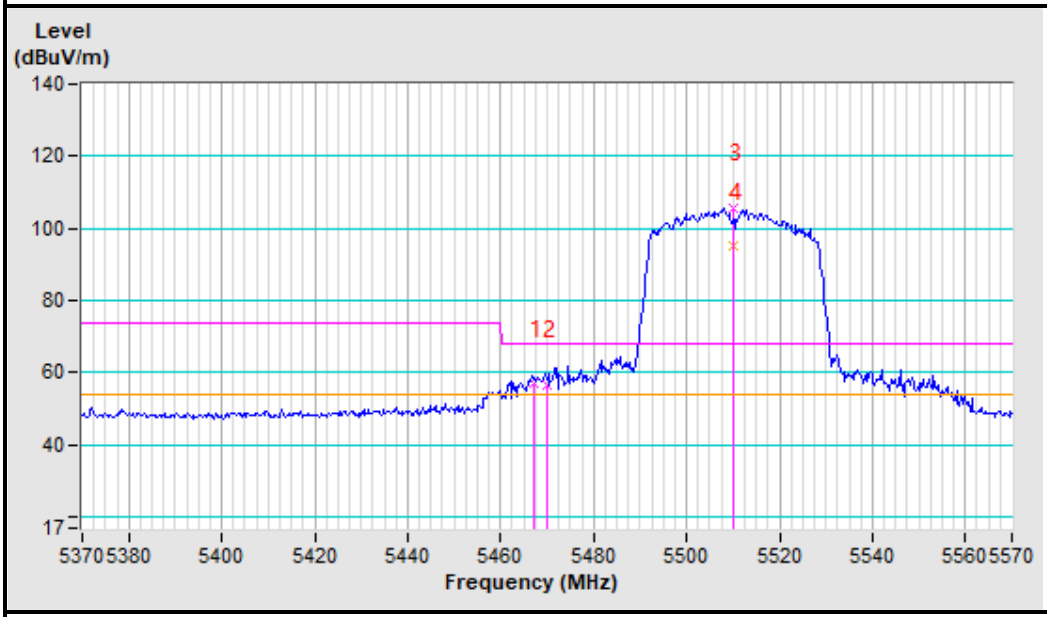
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5467.11	56.93 PK	68.20	-11.27	2.00 H	136	51.17	5.76
2	#5470.00	56.83 PK	68.20	-11.37	2.00 H	136	51.07	5.76
3	*5510.00	105.70 PK			2.00 H	136	99.89	5.81
4	*5510.00	95.11 AV			2.00 H	136	89.30	5.81
5	11020.00	55.36 PK	74.00	-18.64	1.35 H	214	44.26	11.10
6	11020.00	41.25 AV	54.00	-12.75	1.35 H	214	30.15	11.10
7	#16530.00	61.70 PK	68.20	-6.50	1.00 H	209	42.94	18.76
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	#5467.11	57.13 PK	68.20	-11.07	1.08 V	94	51.37	5.76
2	#5470.00	57.30 PK	68.20	-10.90	1.08 V	94	51.54	5.76
3	*5510.00	106.27 PK			1.08 V	94	100.46	5.81
4	*5510.00	96.43 AV			1.08 V	94	90.62	5.81
5	11020.00	56.59 PK	74.00	-17.41	1.71 V	315	45.49	11.10
6	11020.00	42.71 AV	54.00	-11.29	1.71 V	315	31.61	11.10
7	#16530.00	62.38 PK	68.20	-5.82	1.00 V	46	43.62	18.76

REMARKS:

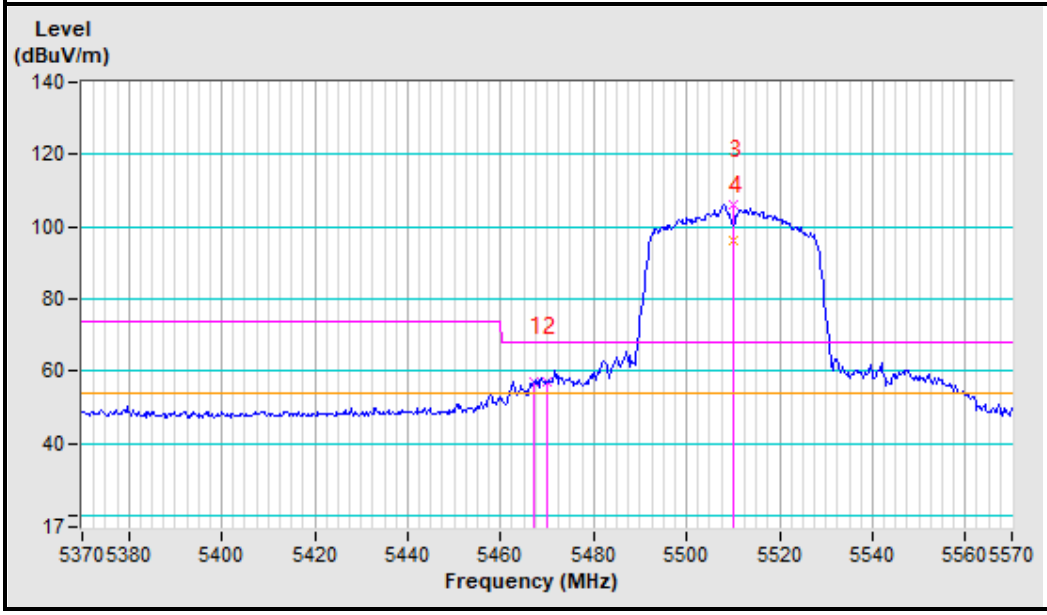
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental 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) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5470.00	48.36 PK	68.20	-19.84	1.08 H	335	42.60	5.76
2	*5550.00	103.29 PK			1.08 H	335	97.42	5.87
3	*5550.00	93.52 AV			1.08 H	335	87.65	5.87
4	11100.00	55.19 PK	74.00	-18.81	1.34 H	215	43.63	11.56
5	11100.00	41.61 AV	54.00	-12.39	1.34 H	215	30.05	11.56
6	#16650.00	61.28 PK	68.20	-6.92	1.00 H	173	42.15	19.13
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	51.74 PK	68.20	-16.46	1.07 V	218	45.98	5.76
2	*5550.00	106.31 PK			1.07 V	218	100.44	5.87
3	*5550.00	96.27 AV			1.07 V	218	90.40	5.87
4	11100.00	56.29 PK	74.00	-17.71	2.00 V	315	44.73	11.56
5	11100.00	42.45 AV	54.00	-11.55	2.00 V	315	30.89	11.56
6	#16650.00	62.43 PK	68.20	-5.77	1.00 V	34	43.30	19.13

REMARKS:

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 less than 20dB margin against the limit.
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)

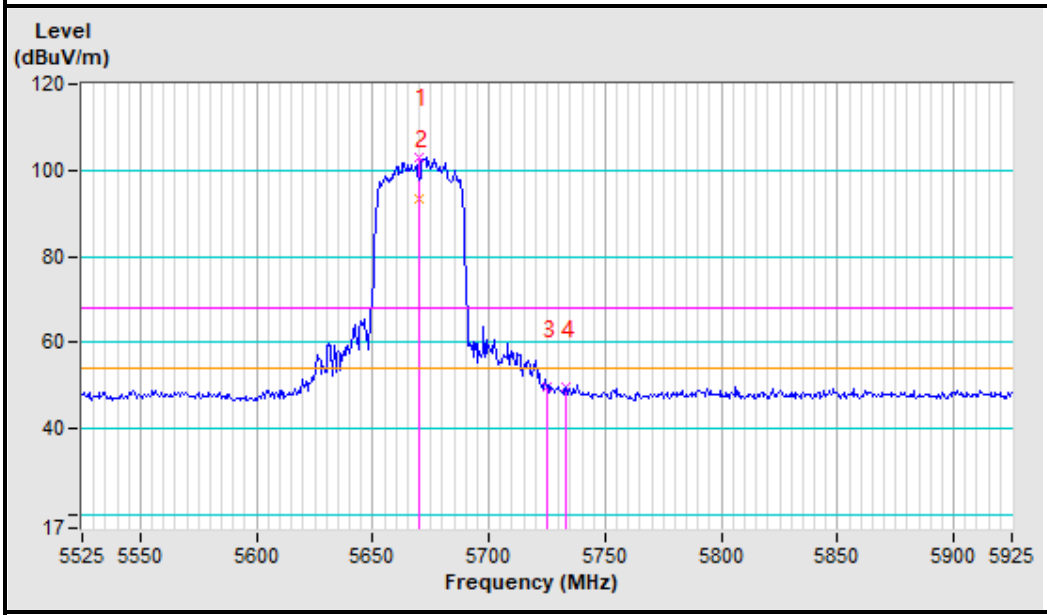
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.13 PK			1.52 H	75	97.07	6.06
2	*5670.00	93.46 AV			1.52 H	75	87.40	6.06
3	#5725.00	49.53 PK	68.20	-18.67	1.52 H	75	43.39	6.14
4	#5733.10	49.75 PK	68.20	-18.45	1.52 H	75	43.60	6.15
5	11340.00	55.31 PK	74.00	-18.69	1.52 H	49	42.37	12.94
6	11340.00	41.27 AV	54.00	-12.73	1.52 H	49	28.33	12.94
7	#17010.00	61.45 PK	68.20	-6.75	1.00 H	105	41.21	20.24
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	104.21 PK			1.33 V	215	98.15	6.06
2	*5670.00	94.56 AV			1.33 V	215	88.50	6.06
3	#5725.00	49.63 PK	68.20	-18.57	1.33 V	215	43.49	6.14
4	#5731.95	50.01 PK	68.20	-18.19	1.33 V	215	43.86	6.15
5	11340.00	56.14 PK	74.00	-17.86	2.00 V	47	43.20	12.94
6	11340.00	42.29 AV	54.00	-11.71	2.00 V	47	29.35	12.94
7	#17010.00	62.18 PK	68.20	-6.02	1.00 V	236	41.94	20.24

REMARKS:

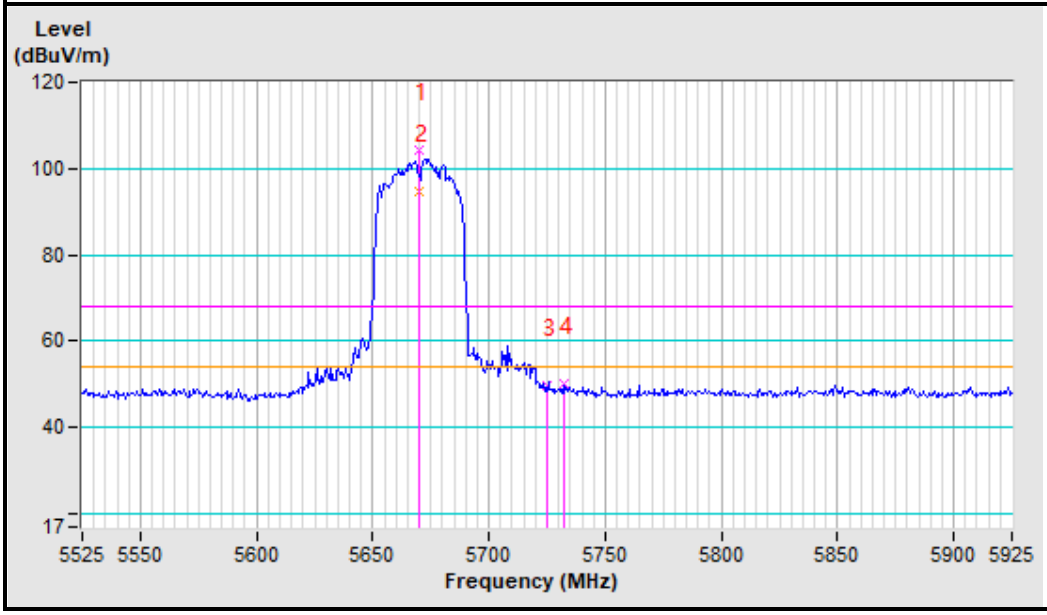
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5670MHz Horizontal



5670MHz Vertical



802.11ax (80MHz)

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

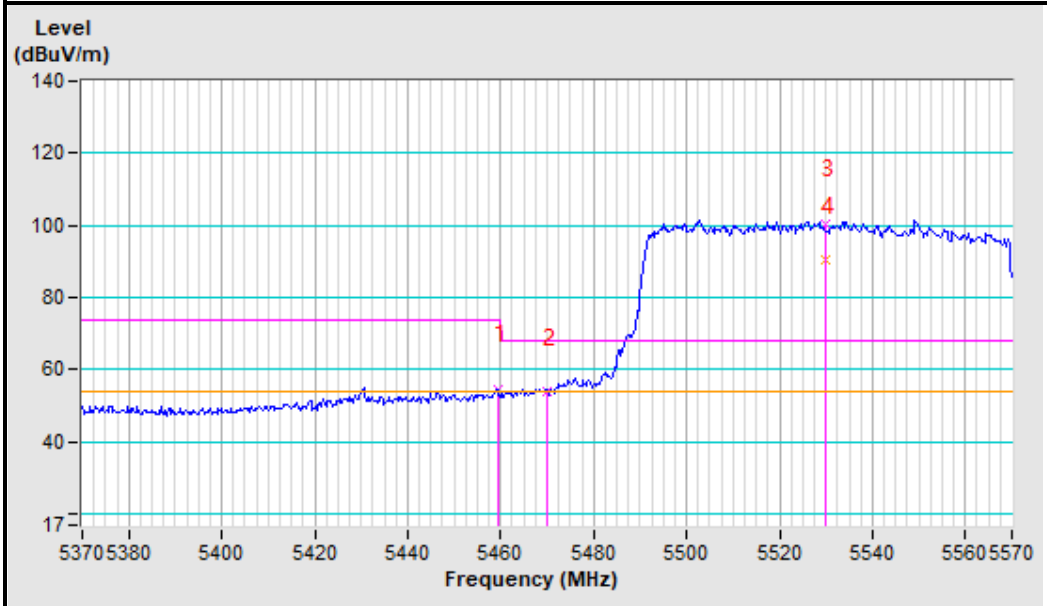
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5459.29	54.76 PK	74.00	-19.24	1.02 H	318	49.01	5.75
2	#5470.00	53.77 PK	68.20	-14.43	1.02 H	318	48.01	5.76
3	*5530.00	100.64 PK			1.02 H	318	94.80	5.84
4	*5530.00	90.32 AV			1.02 H	318	84.48	5.84
5	11060.00	55.14 PK	74.00	-18.86	1.27 H	48	43.81	11.33
6	11060.00	41.23 AV	54.00	-12.77	1.27 H	48	29.90	11.33
7	#16590.00	61.31 PK	68.20	-6.89	1.00 H	25	42.37	18.94
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	#5467.40	54.84 PK	68.20	-13.36	2.00 V	144	49.08	5.76
2	#5470.00	54.17 PK	68.20	-14.03	2.00 V	144	48.41	5.76
3	*5530.00	101.81 PK			2.00 V	144	95.97	5.84
4	*5530.00	91.23 AV			2.00 V	144	85.39	5.84
5	11060.00	56.81 PK	74.00	-17.19	1.18 V	80	45.48	11.33
6	11060.00	42.57 AV	54.00	-11.43	1.18 V	80	31.24	11.33
7	#16590.00	62.46 PK	68.20	-5.74	1.00 V	251	43.52	18.94

REMARKS:

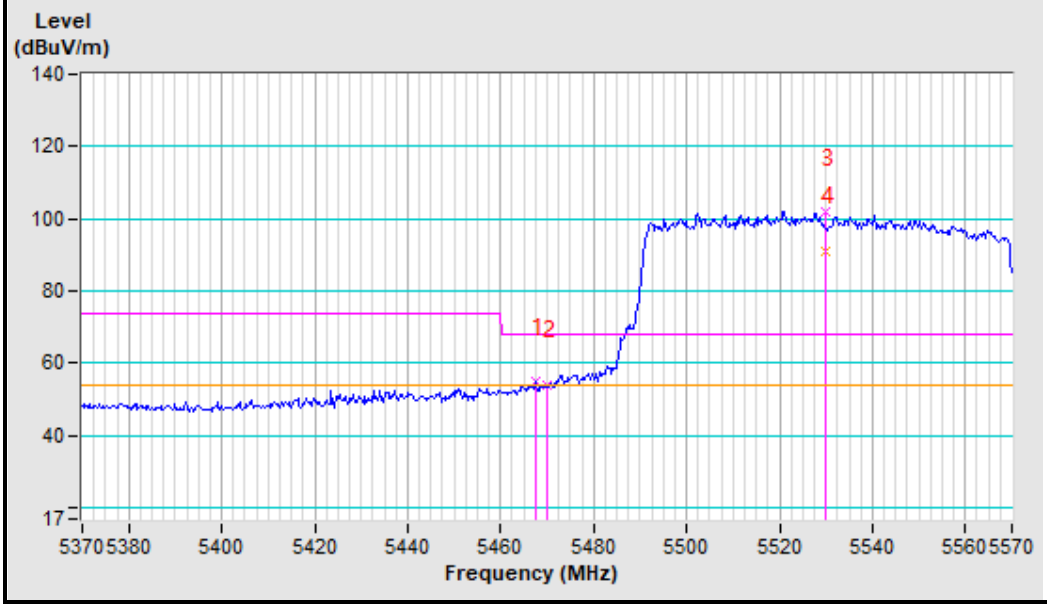
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5530MHz Horizontal



5530MHz Vertical



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

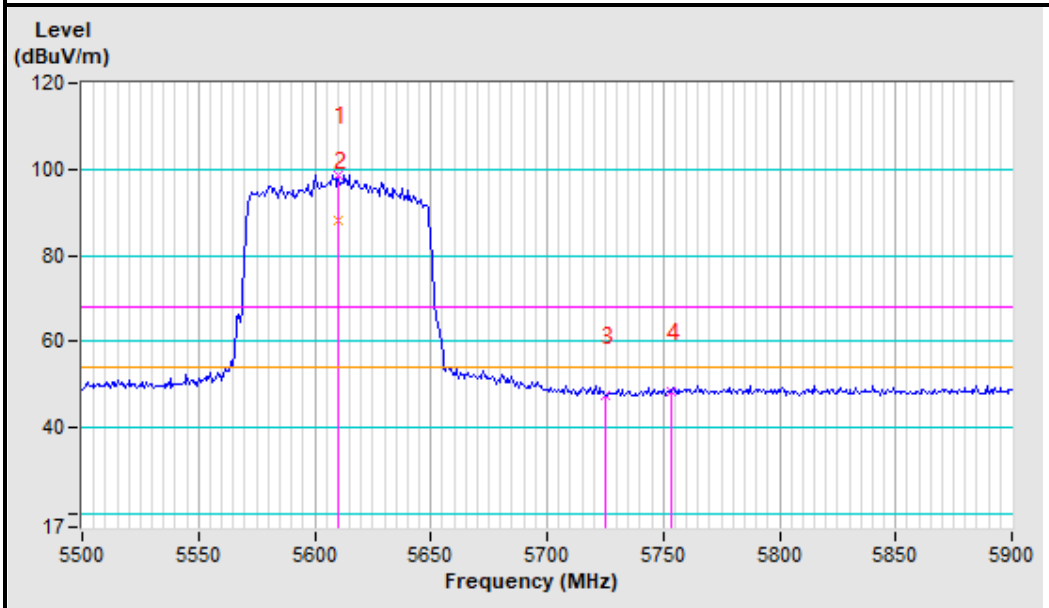
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	98.75 PK			1.00 H	216	92.79	5.96
2	*5610.00	88.20 AV			1.00 H	216	82.24	5.96
3	#5725.00	47.57 PK	68.20	-20.63	1.00 H	216	41.43	6.14
4	#5753.20	48.63 PK	68.20	-19.57	1.00 H	214	42.45	6.18
5	11220.00	52.02 PK	74.00	-21.98	1.20 H	269	39.76	12.26
6	11220.00	43.36 AV	54.00	-10.64	1.20 H	269	31.10	12.26
7	#16830.00	58.36 PK	68.20	-9.84	1.00 H	210	38.67	19.69
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	89.65 PK			1.00 V	258	83.69	5.96
2	*5610.00	79.40 AV			1.00 V	258	73.44	5.96
3	#5725.00	47.73 PK	68.20	-20.47	1.00 V	258	41.59	6.14
4	#5754.48	47.90 PK	68.20	-20.30	1.00 V	258	41.72	6.18
5	11220.00	51.25 PK	74.00	-22.75	1.20 V	10	38.99	12.26
6	11220.00	42.69 AV	54.00	-11.31	1.20 V	10	30.43	12.26
7	#16830.00	57.30 PK	68.20	-10.90	1.00 V	59	37.61	19.69

REMARKS:

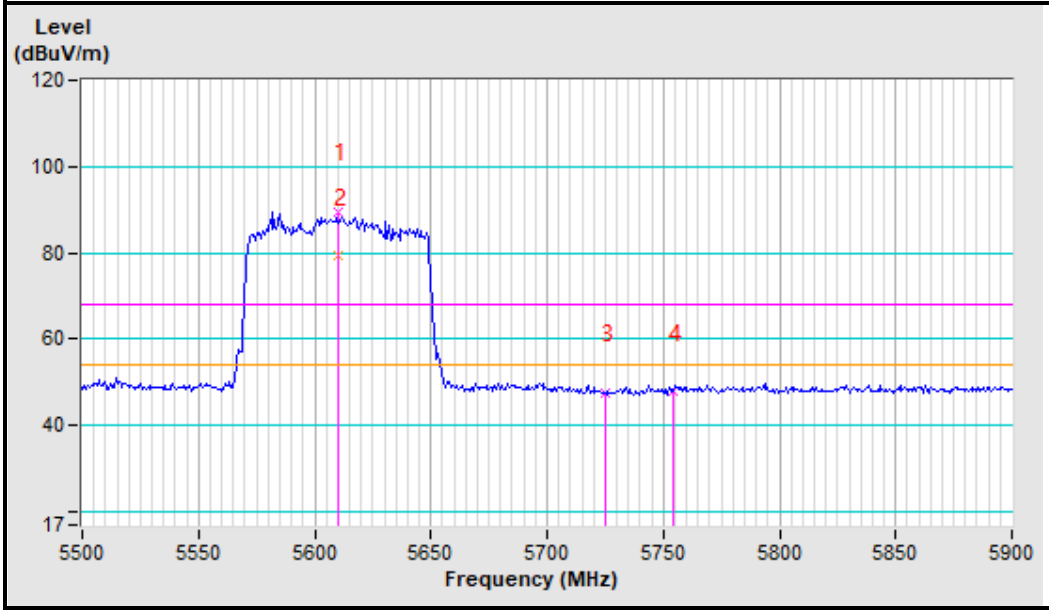
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5610MHz Horizontal



5610MHz Vertical



Band 4 (5725-5850MHz):

ABOVE 1GHz DATA

802.11a

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

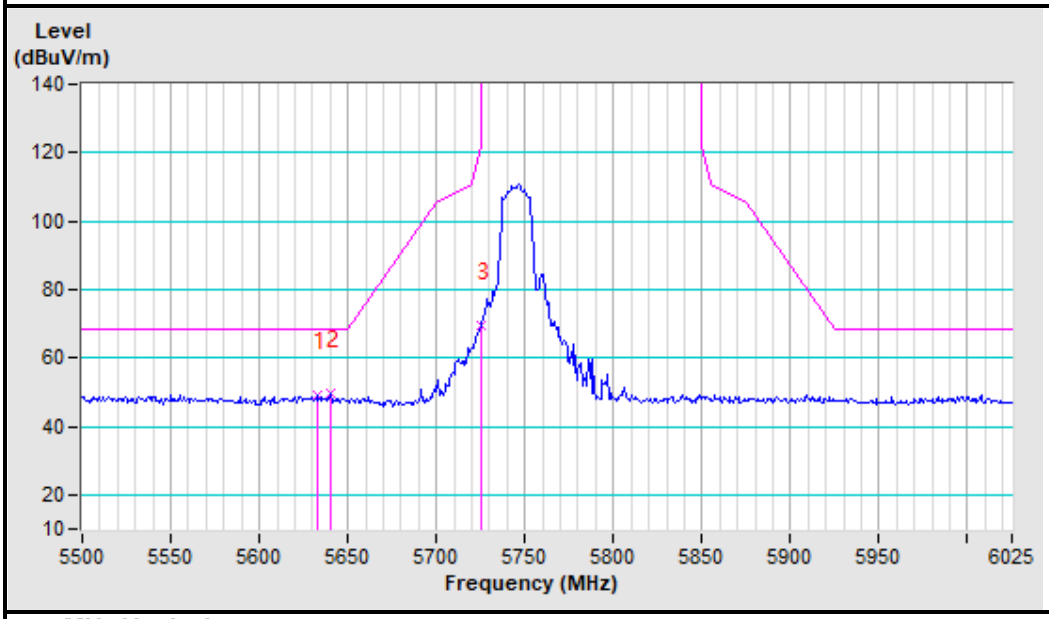
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5633.07	49.20 PK	68.20	-19.00	1.06 H	35	43.20	6.00
2	#5640.67	49.74 PK	68.20	-18.46	1.06 H	35	43.72	6.02
3	#5725.00	69.63 PK	122.20	-52.57	1.06 H	35	63.49	6.14
4	*5745.00	110.77 PK			2.00 H	109	104.60	6.17
5	*5745.00	100.34 AV			2.00 H	109	94.17	6.17
6	11490.00	56.43 PK	74.00	-17.57	1.52 H	216	42.62	13.81
7	11490.00	42.76 AV	54.00	-11.24	1.52 H	216	28.95	13.81
8	#17235.00	62.18 PK	68.20	-6.02	1.00 H	25	41.20	20.98
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	#5611.79	47.99 PK	68.20	-20.21	1.00 V	235	42.02	5.97
2	#5623.95	48.92 PK	68.20	-19.28	1.00 V	235	42.93	5.99
3	#5725.00	69.36 PK	122.20	-52.84	1.00 V	235	63.22	6.14
4	*5745.00	109.64 PK			2.00 V	177	103.47	6.17
5	*5745.00	99.29 AV			2.00 V	177	93.12	6.17
6	11490.00	55.37 PK	74.00	-18.63	1.06 V	213	41.56	13.81
7	11490.00	41.19 AV	54.00	-12.81	1.06 V	213	27.38	13.81
8	#17235.00	61.22 PK	68.20	-6.98	1.00 V	96	40.24	20.98

REMARKS:

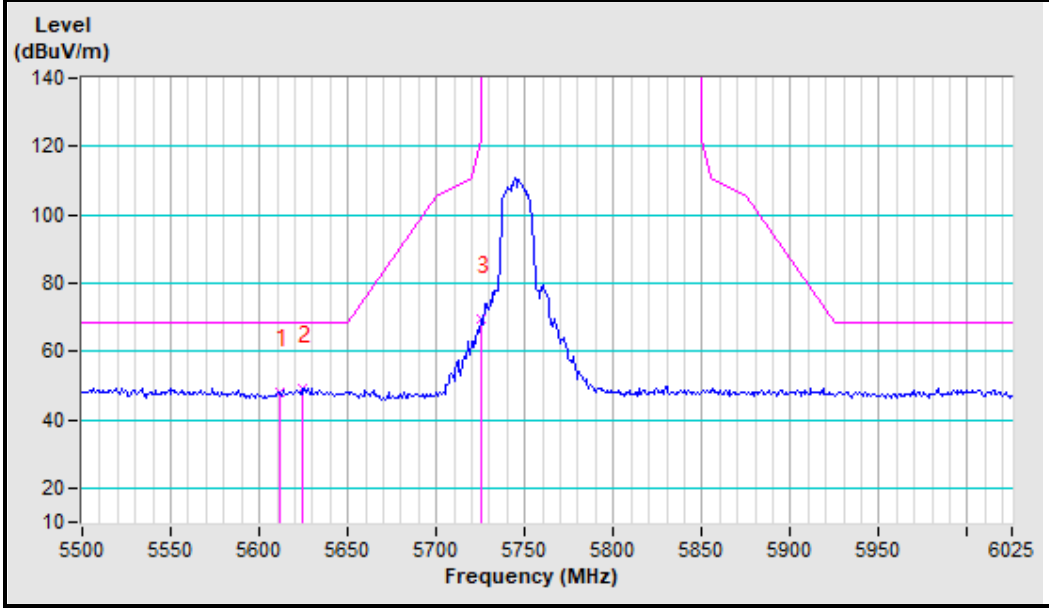
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5745MHz Horizontal



5745MHz Vertical



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

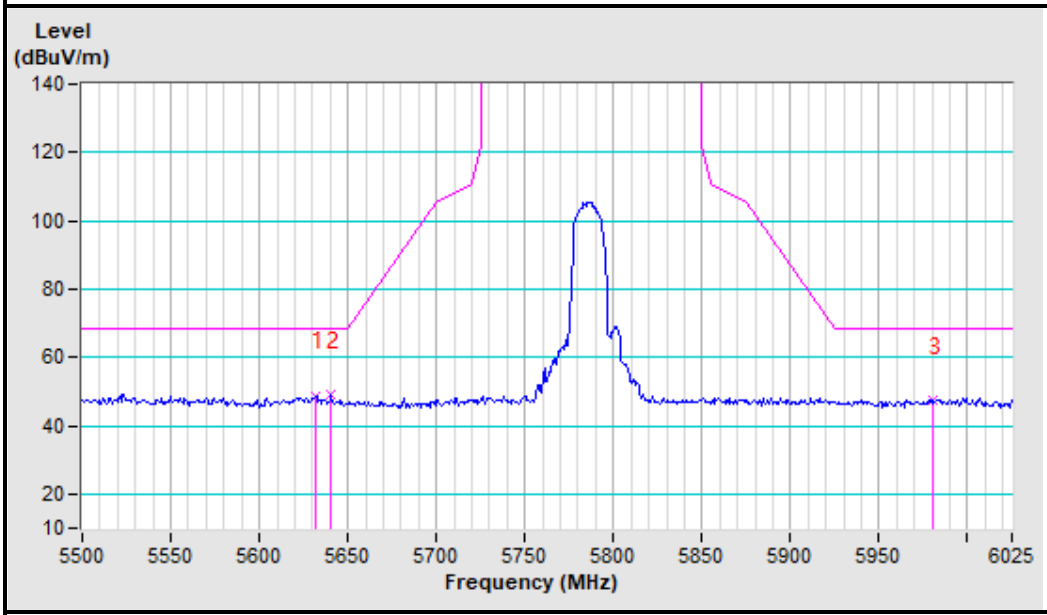
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5632.31	48.81 PK	68.20	-19.39	2.00 H	46	42.81	6.00
2	#5640.67	48.92 PK	68.20	-19.28	2.00 H	46	42.90	6.02
3	*5785.00	105.43 PK			1.38 H	46	99.19	6.24
4	*5785.00	95.29 AV			1.38 H	46	89.05	6.24
5	#5980.68	47.47 PK	68.20	-20.73	2.00 H	46	40.94	6.53
6	11570.00	55.31 PK	74.00	-18.69	2.00 H	136	41.38	13.93
7	11570.00	41.19 AV	54.00	-12.81	2.00 H	136	27.26	13.93
8	#17355.00	61.25 PK	68.20	-6.95	1.00 H	304	39.87	21.38
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	#5585.20	48.93 PK	68.20	-19.27	1.03 V	318	43.00	5.93
2	#5629.27	49.03 PK	68.20	-19.17	1.03 V	318	43.04	5.99
3	*5785.00	107.13 PK			1.15 V	216	100.89	6.24
4	*5785.00	97.44 AV			1.15 V	216	91.20	6.24
5	#5938.89	47.95 PK	68.20	-20.25	1.03 V	318	41.48	6.47
6	11570.00	56.39 PK	74.00	-17.61	1.03 V	312	42.46	13.93
7	11570.00	42.54 AV	54.00	-11.46	1.03 V	312	28.61	13.93
8	#17355.00	62.91 PK	68.20	-5.29	1.00 V	75	41.53	21.38

REMARKS:

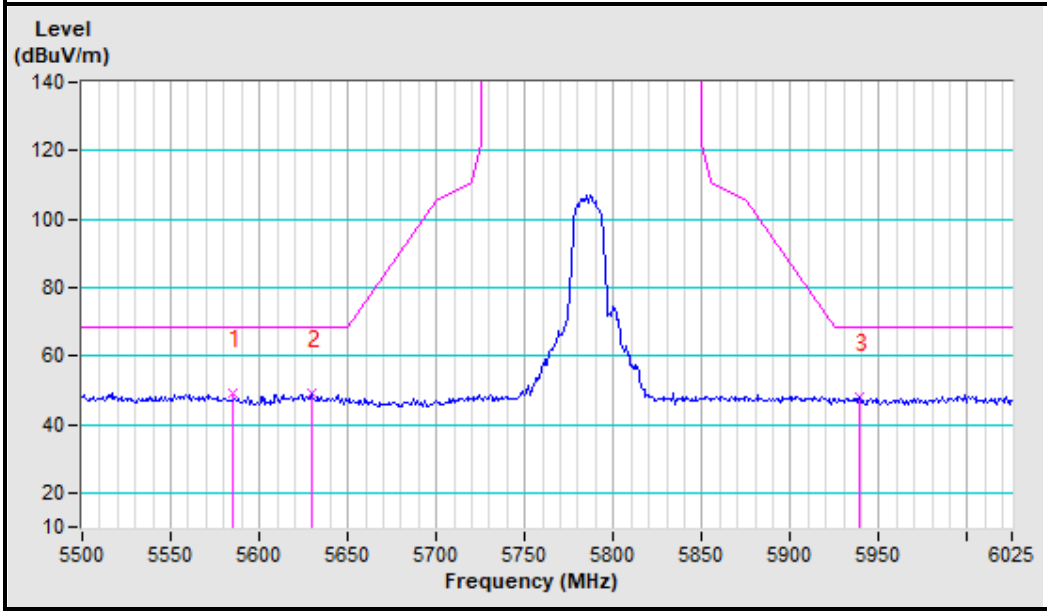
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5785MHz Horizontal



5785MHz Vertical



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

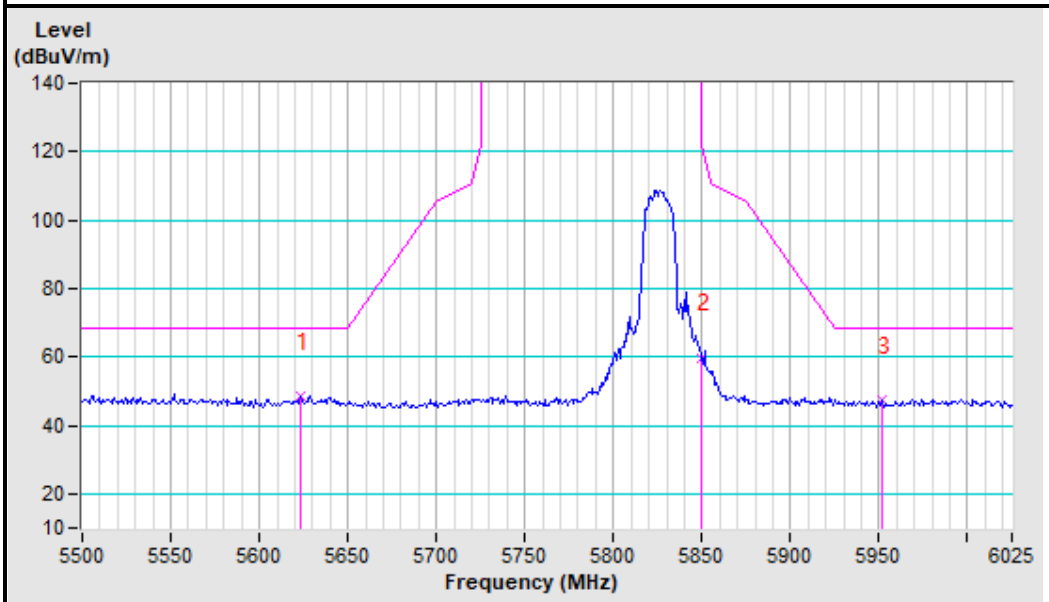
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.59	48.68 PK	68.20	-19.52	1.07 H	96	42.69	5.99
2	*5825.00	108.72 PK			1.34 H	52	102.42	6.30
3	*5825.00	98.43 AV			1.34 H	52	92.13	6.30
4	#5850.00	59.84 PK	122.20	-62.36	1.07 H	96	53.51	6.33
5	#5951.81	47.36 PK	68.20	-20.84	1.07 H	96	40.87	6.49
6	11650.00	56.34 PK	74.00	-17.66	1.00 H	326	42.34	14.00
7	11650.00	42.76 AV	54.00	-11.24	1.00 H	326	28.76	14.00
8	#17475.00	63.09 PK	68.20	-5.11	1.00 H	52	41.33	21.77
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5622.83	48.31 PK	68.20	-19.89	1.52 V	338	42.32	5.99
2	*5825.00	103.97 PK			1.46 V	95	97.67	6.30
3	*5825.00	93.45 AV			1.46 V	95	87.15	6.30
4	#5850.00	55.47 PK	122.20	-66.73	1.52 V	338	49.14	6.33
5	#5938.89	48.12 PK	68.20	-20.08	1.52 V	338	41.65	6.47
6	11650.00	55.17 PK	74.00	-18.83	2.00 V	136	41.17	14.00
7	11650.00	41.23 AV	54.00	-12.77	2.00 V	136	27.23	14.00
8	#17475.00	62.14 PK	68.20	-6.06	1.00 V	319	40.37	21.77

REMARKS:

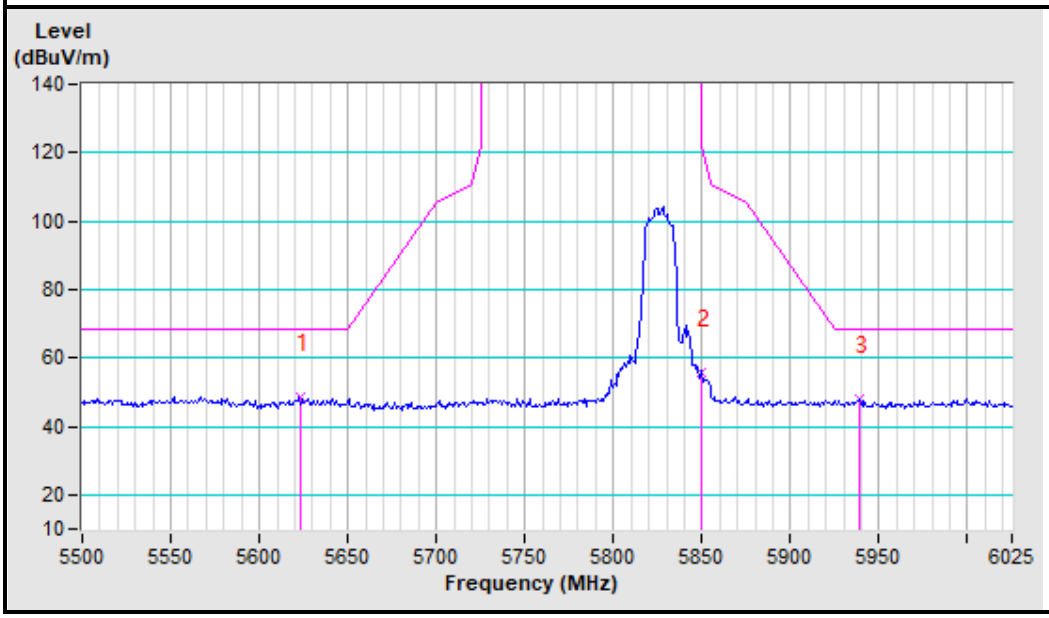
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5825MHz Horizontal



5825MHz Vertical



802.11n (20MHz)

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

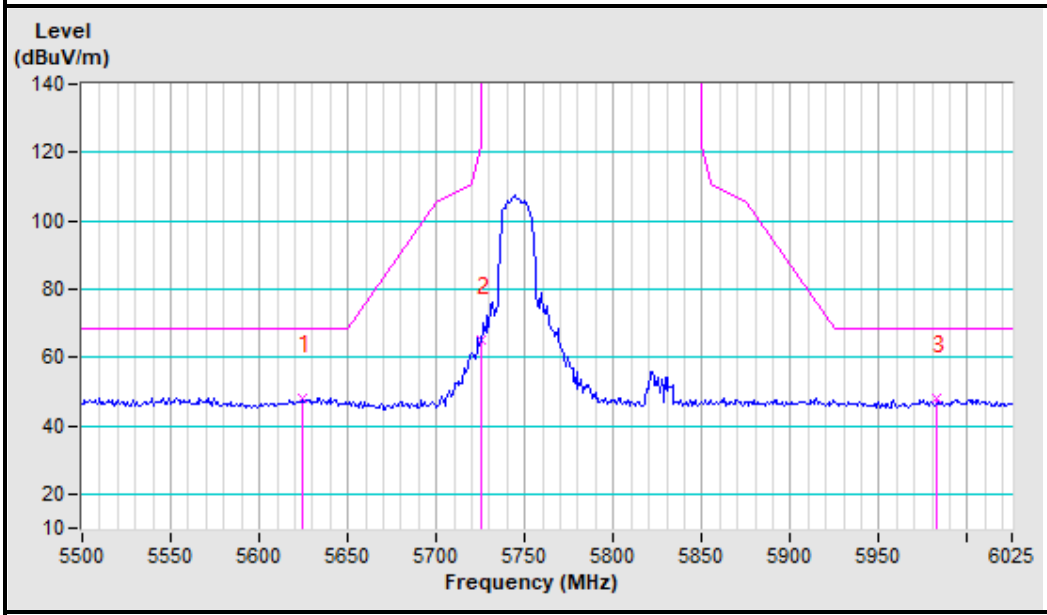
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5624.35	47.74 PK	68.20	-20.46	1.00 H	113	41.75	5.99
2	#5725.00	64.84 PK	122.20	-57.36	1.00 H	113	58.70	6.14
3	*5745.00	107.34 PK			2.00 H	176	101.17	6.17
4	*5745.00	97.22 AV			2.00 H	176	91.05	6.17
5	#5982.96	47.77 PK	68.20	-20.43	1.00 H	113	41.24	6.53
6	11490.00	55.43 PK	74.00	-18.57	1.06 H	52	41.62	13.81
7	11490.00	41.49 AV	54.00	-12.51	1.06 H	52	27.68	13.81
8	#17235.00	61.35 PK	68.20	-6.85	1.00 H	96	40.37	20.98
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	#5615.59	48.40 PK	68.20	-19.80	1.02 V	39	42.42	5.98
2	#5630.03	48.54 PK	68.20	-19.66	1.02 V	39	42.54	6.00
3	#5725.00	64.34 PK	122.20	-57.86	1.02 V	39	58.20	6.14
4	*5745.00	108.80 PK			1.35 V	206	102.63	6.17
5	*5745.00	98.19 AV			1.35 V	206	92.02	6.17
6	11490.00	56.71 PK	74.00	-17.29	1.02 V	211	42.90	13.81
7	11490.00	42.39 AV	54.00	-11.61	1.02 V	211	28.58	13.81
8	#17235.00	62.46 PK	68.20	-5.74	1.00 V	201	41.48	20.98

REMARKS:

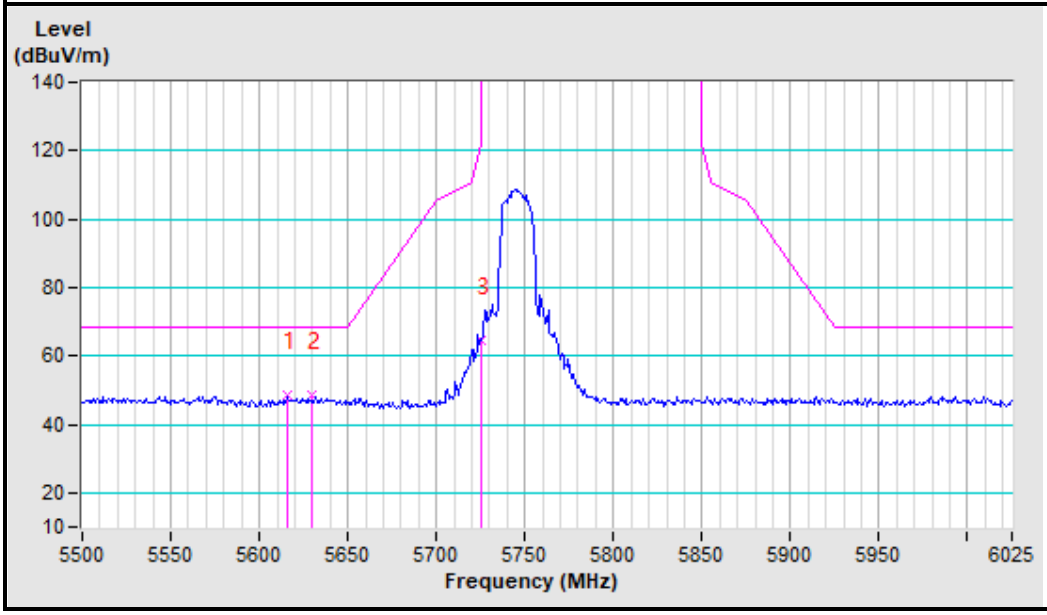
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5745MHz Horizontal



5745MHz Vertical



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

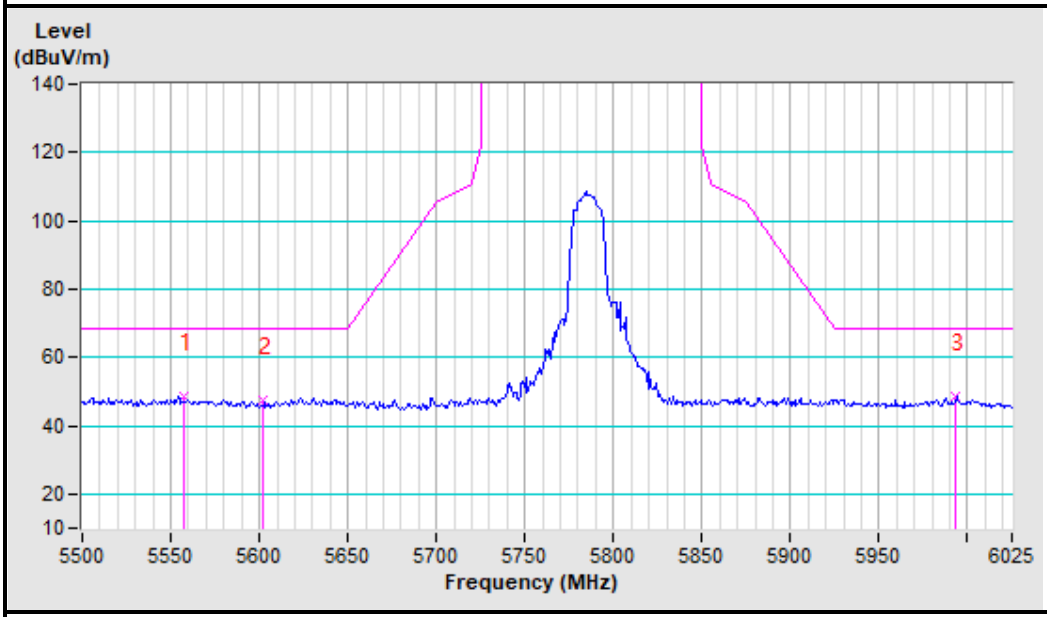
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5557.36	48.45 PK	68.20	-19.75	2.00 H	143	42.56	5.89
2	#5602.19	47.58 PK	68.20	-20.62	2.00 H	143	41.62	5.96
3	*5785.00	108.81 PK			1.00 H	144	102.57	6.24
4	*5785.00	98.25 AV			1.00 H	144	92.01	6.24
5	#5993.47	48.71 PK	68.20	-19.49	2.00 H	143	42.16	6.55
6	11570.00	56.38 PK	74.00	-17.62	1.02 H	315	42.45	13.93
7	11570.00	42.17 AV	54.00	-11.83	1.02 H	315	28.24	13.93
8	#17355.00	62.55 PK	68.20	-5.65	1.00 H	42	41.17	21.38
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	#5563.93	48.28 PK	68.20	-19.92	1.52 V	36	42.38	5.90
2	#5600.40	47.50 PK	68.20	-20.70	1.52 V	36	41.55	5.95
3	*5785.00	106.60 PK			1.04 V	65	100.36	6.24
4	*5785.00	96.43 AV			1.04 V	65	90.19	6.24
5	#5978.76	48.03 PK	68.20	-20.17	1.52 V	36	41.50	6.53
6	11570.00	55.41 PK	74.00	-18.59	2.00 V	28	41.48	13.93
7	11570.00	41.34 AV	54.00	-12.66	2.00 V	28	27.41	13.93
8	#17355.00	61.46 PK	68.20	-6.74	1.00 V	351	40.08	21.38

REMARKS:

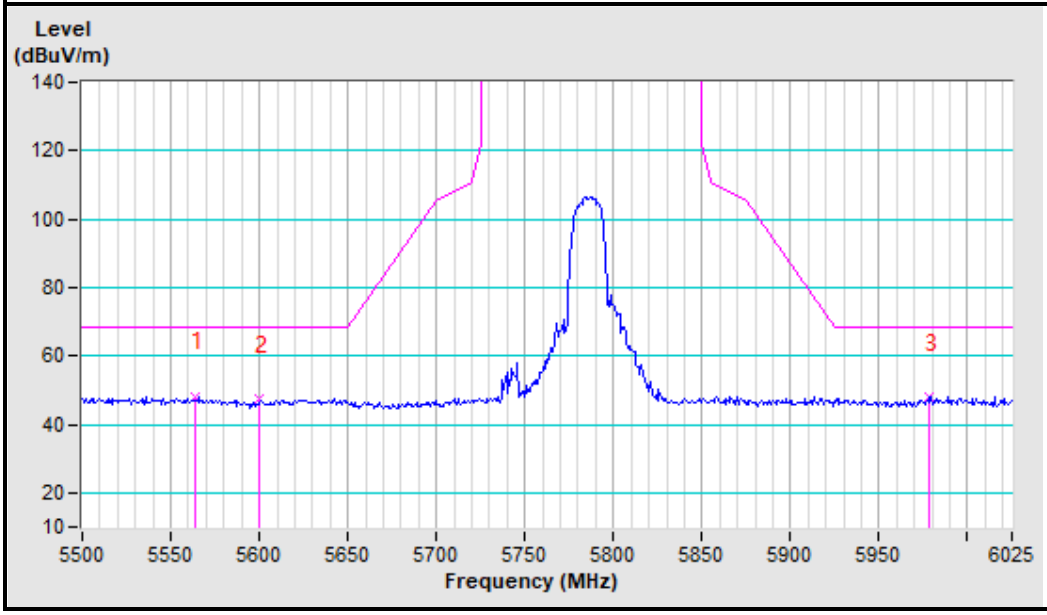
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5785MHz Horizontal



5785MHz Vertical



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

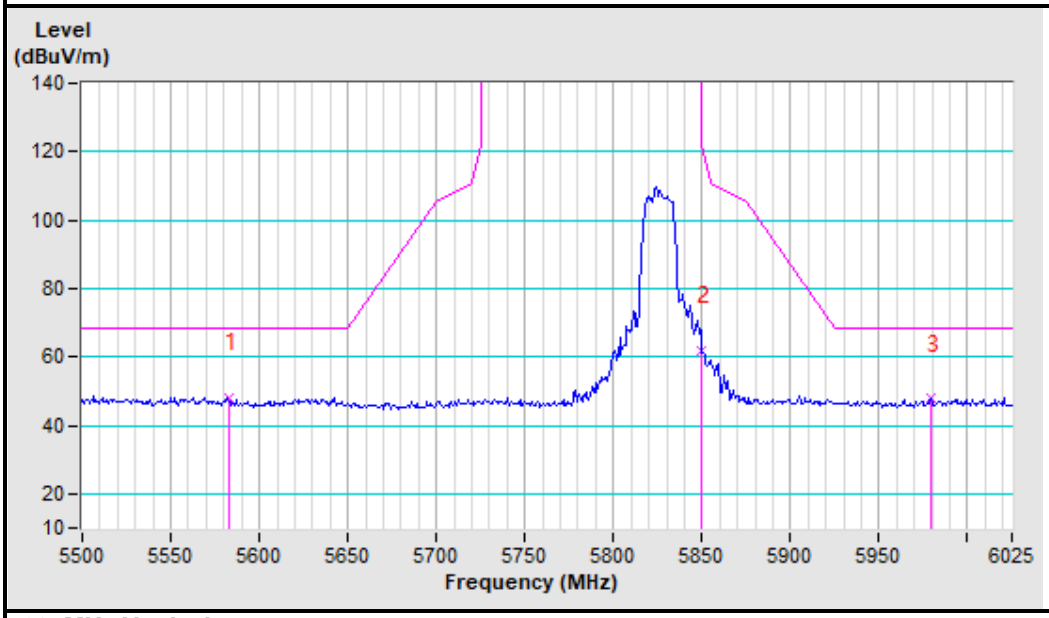
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5582.56	48.27 PK	68.20	-19.93	1.35 H	49	42.34	5.93
2	*5825.00	109.43 PK			1.12 H	216	103.13	6.30
3	*5825.00	99.26 AV			1.12 H	216	92.96	6.30
4	#5850.00	62.02 PK	122.20	-60.18	1.35 H	49	55.69	6.33
5	#5979.16	47.93 PK	68.20	-20.27	1.35 H	49	41.40	6.53
6	11650.00	56.49 PK	74.00	-17.51	1.56 H	239	42.49	14.00
7	11650.00	42.81 AV	54.00	-11.19	1.56 H	239	28.81	14.00
8	#17475.00	62.74 PK	68.20	-5.46	1.00 H	219	40.98	21.77
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	#5627.39	47.48 PK	68.20	-20.72	2.00 V	152	41.49	5.99
2	*5825.00	106.23 PK			1.52 V	46	99.93	6.30
3	*5825.00	96.49 AV			1.52 V	46	90.19	6.30
4	#5850.00	64.79 PK	122.20	-57.41	2.00 V	152	58.46	6.33
5	#5995.88	47.94 PK	68.20	-20.26	2.00 V	152	41.38	6.56
6	11650.00	55.34 PK	74.00	-18.66	1.07 V	59	41.34	14.00
7	11650.00	41.29 AV	54.00	-12.71	1.07 V	59	27.29	14.00
8	#17475.00	61.28 PK	68.20	-6.92	1.00 V	235	39.52	21.77

REMARKS:

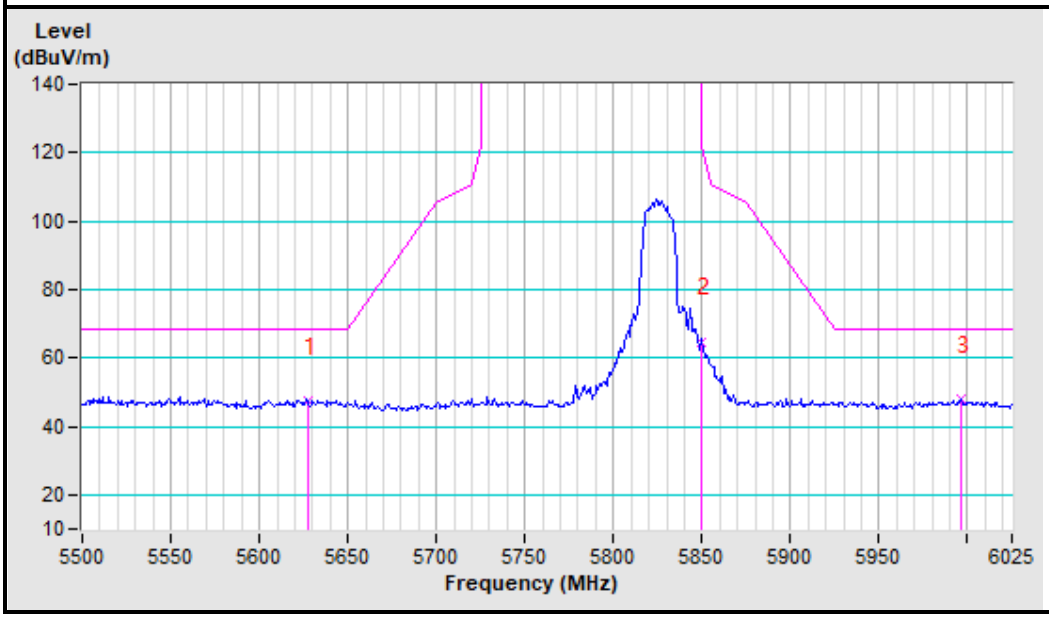
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5825MHz Horizontal



5825MHz Vertical



802.11n (40MHz)

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

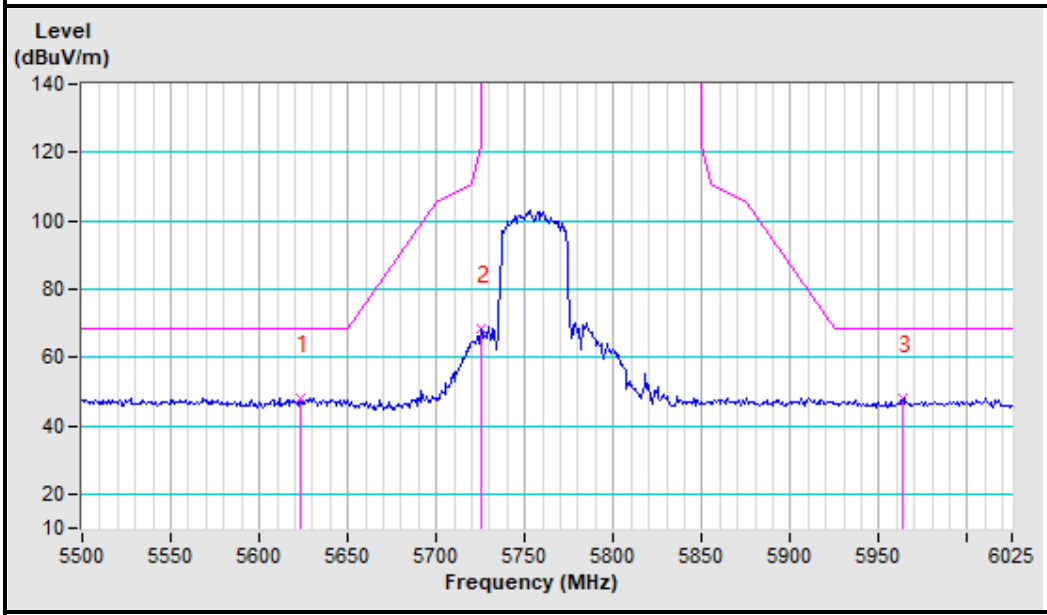
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5623.19	48.01 PK	68.20	-20.19	1.09 H	59	42.02	5.99
2	#5725.00	68.35 PK	122.20	-53.85	1.09 H	59	62.21	6.14
3	*5755.00	102.98 PK			1.57 H	316	96.79	6.19
4	*5755.00	92.14 AV			1.57 H	316	85.95	6.19
5	#5963.57	48.10 PK	68.20	-20.10	1.09 H	59	41.60	6.50
6	11510.00	55.46 PK	74.00	-18.54	1.06 H	312	41.59	13.87
7	11510.00	41.18 AV	54.00	-12.82	1.06 H	312	27.31	13.87
8	#17265.00	61.29 PK	68.20	-6.91	1.00 H	52	40.21	21.08
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	#5573.81	47.73 PK	68.20	-20.47	1.15 V	26	41.81	5.92
2	#5626.23	48.47 PK	68.20	-19.73	1.15 V	26	42.48	5.99
3	#5725.00	62.60 PK	122.20	-59.60	1.15 V	26	56.46	6.14
4	*5755.00	103.96 PK			2.00 V	146	97.77	6.19
5	*5755.00	93.22 AV			2.00 V	146	87.03	6.19
6	11510.00	56.52 PK	74.00	-17.48	1.04 V	312	42.65	13.87
7	11510.00	42.71 AV	54.00	-11.29	1.04 V	312	28.84	13.87
8	#17265.00	62.35 PK	68.20	-5.85	1.00 V	14	41.27	21.08

REMARKS:

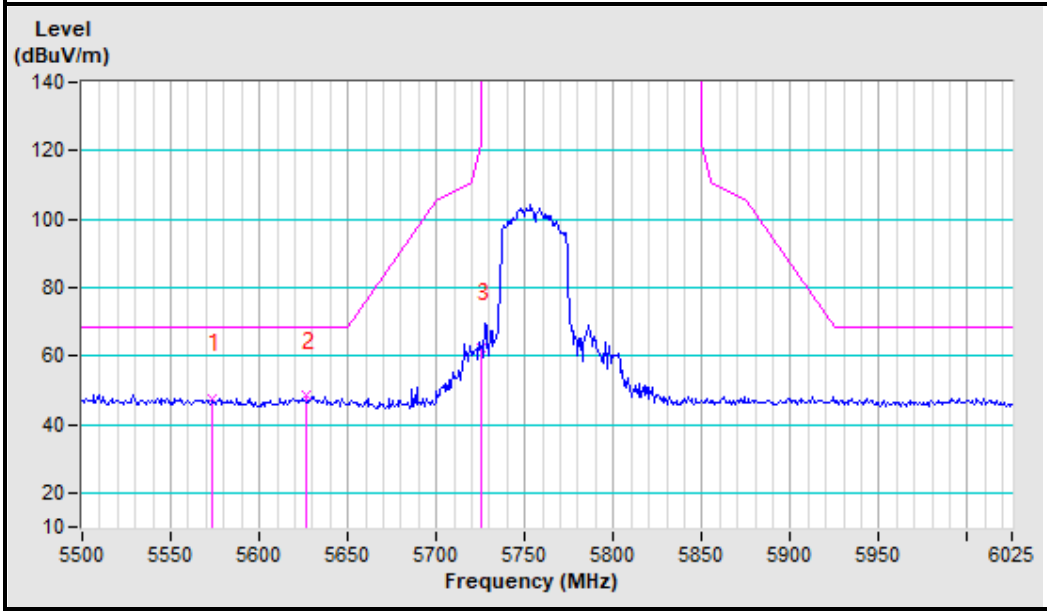
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5755MHz Horizontal



5755MHz Vertical



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

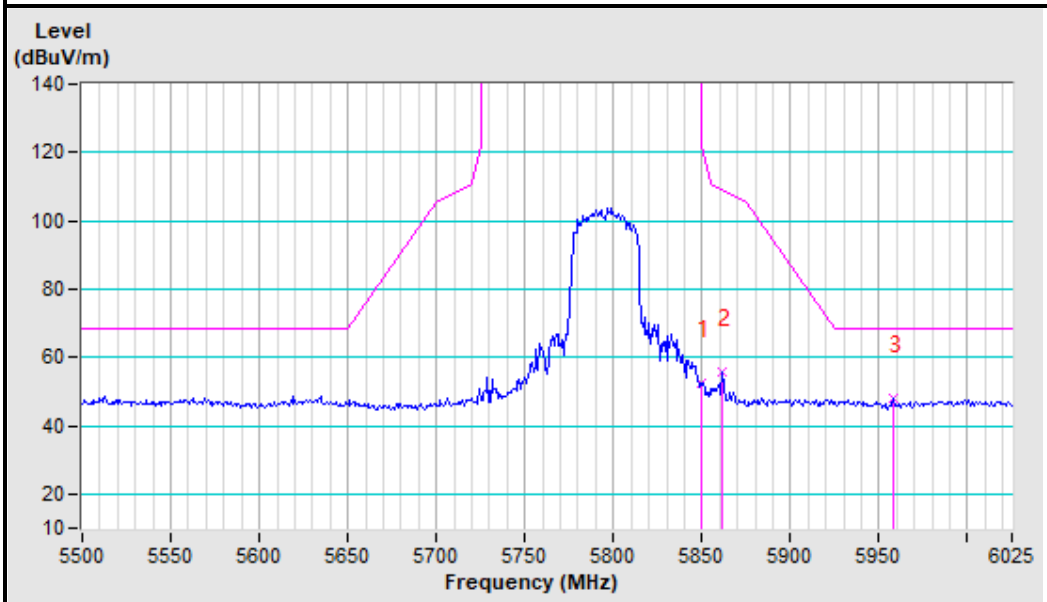
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	103.63 PK			2.00 H	177	97.38	6.25
2	*5795.00	93.14 AV			2.00 H	177	86.89	6.25
3	#5850.00	52.21 PK	122.20	-69.99	1.05 H	69	45.88	6.33
4	#5861.40	55.76 PK	109.01	-53.25	1.05 H	69	49.41	6.35
5	#5957.89	47.93 PK	68.20	-20.27	1.05 H	69	41.43	6.50
6	11590.00	56.22 PK	74.00	-17.78	1.00 H	13	42.27	13.95
7	11590.00	41.17 AV	54.00	-12.83	1.00 H	13	27.22	13.95
8	#17385.00	61.28 PK	68.20	-6.92	1.00 H	305	39.81	21.47
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	#5555.97	49.94 PK	68.20	-18.26	1.00 V	138	44.05	5.89
2	*5795.00	104.25 PK			1.75 V	214	98.00	6.25
3	*5795.00	94.86 AV			1.75 V	214	88.61	6.25
4	#5850.00	52.86 PK	122.20	-69.34	1.00 V	138	46.53	6.33
5	#5974.60	47.46 PK	68.20	-20.74	1.00 V	138	40.94	6.52
6	11590.00	57.05 PK	74.00	-16.95	1.06 V	96	43.10	13.95
7	11590.00	42.84 AV	54.00	-11.16	1.06 V	96	28.89	13.95
8	#17385.00	62.79 PK	68.20	-5.41	1.00 V	215	41.32	21.47

REMARKS:

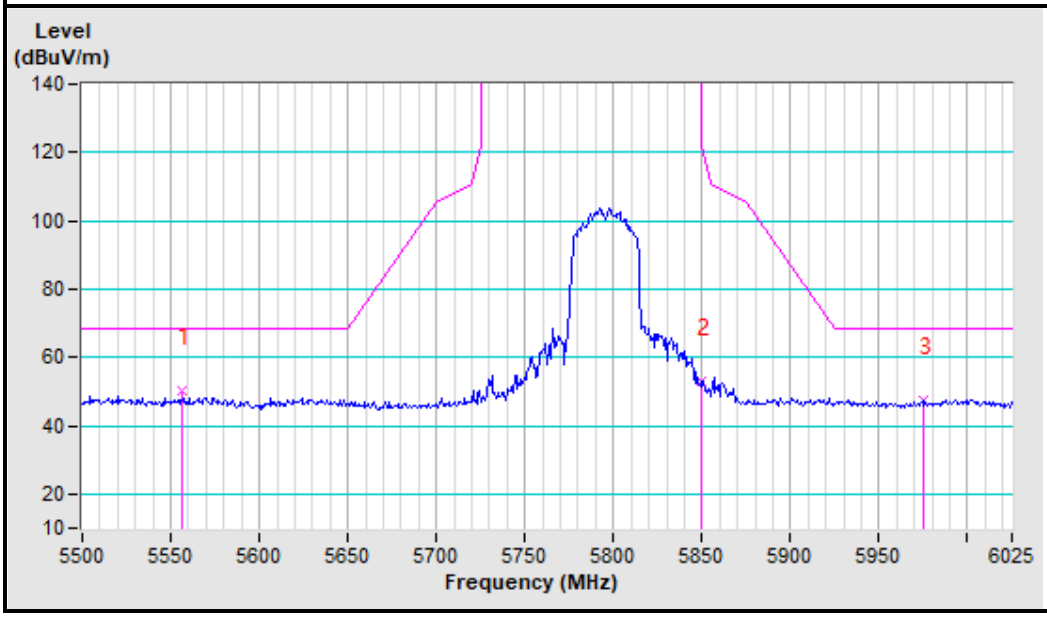
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5795MHz Horizontal



5795MHz Vertical



802.11ac 80MHz

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

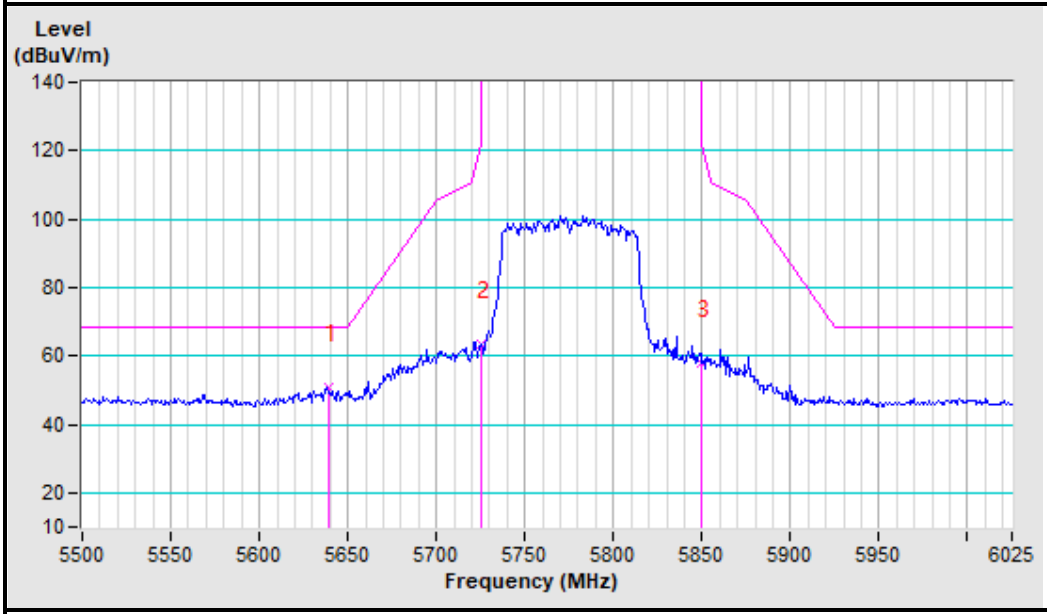
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#5638.78	50.58 PK	68.20	-17.62	1.03 H	318	44.57	6.01
2	#5725.00	63.17 PK	122.20	-59.03	1.03 H	318	57.03	6.14
3	*5775.00	101.29 PK			1.45 H	319	95.07	6.22
4	*5775.00	91.28 AV			1.45 H	319	85.06	6.22
5	#5850.00	57.73 PK	122.20	-64.47	1.03 H	318	51.40	6.33
6	11550.00	57.34 PK	74.00	-16.66	1.08 H	214	43.43	13.91
7	11550.00	42.29 AV	54.00	-11.71	1.08 H	214	28.38	13.91
8	#17325.00	62.85 PK	68.20	-5.35	1.00 H	31	41.58	21.27
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	#5621.31	52.03 PK	68.20	-16.17	1.52 V	36	46.04	5.99
2	#5725.00	60.80 PK	122.20	-61.40	1.52 V	36	54.66	6.14
3	*5775.00	100.05 PK			2.00 V	218	93.83	6.22
4	*5775.00	90.34 AV			2.00 V	218	84.12	6.22
5	#5850.00	58.65 PK	122.20	-63.55	1.52 V	36	52.32	6.33
6	11550.00	56.43 PK	74.00	-17.57	1.12 V	35	42.52	13.91
7	11550.00	41.16 AV	54.00	-12.84	1.12 V	35	27.25	13.91
8	#17325.00	61.27 PK	68.20	-6.93	1.00 V	203	40.00	21.27

REMARKS:

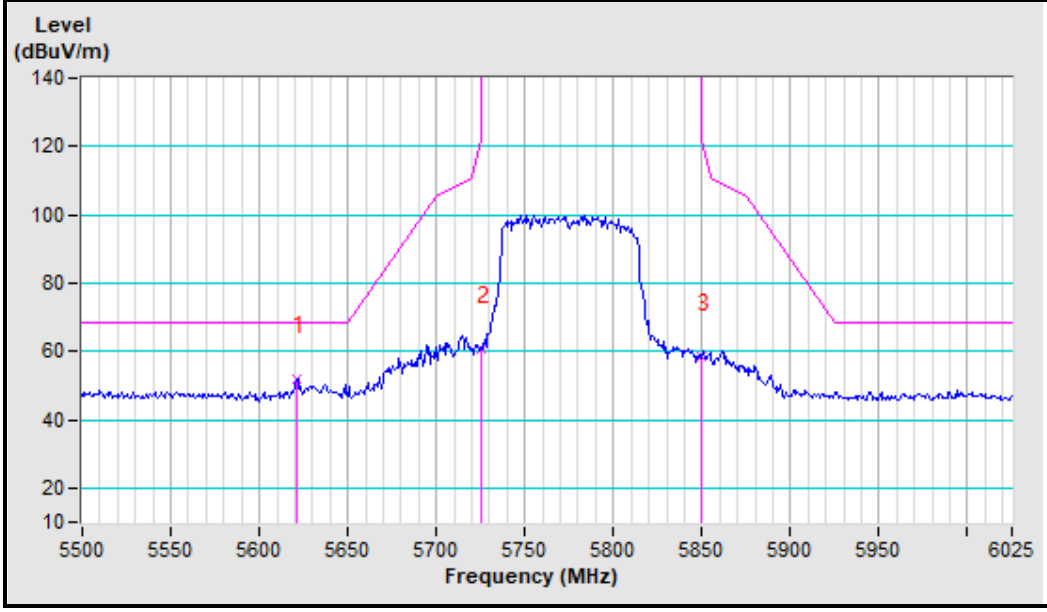
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5775MHz Horizontal



5775MHz Vertical



802.11ax (20MHz)

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

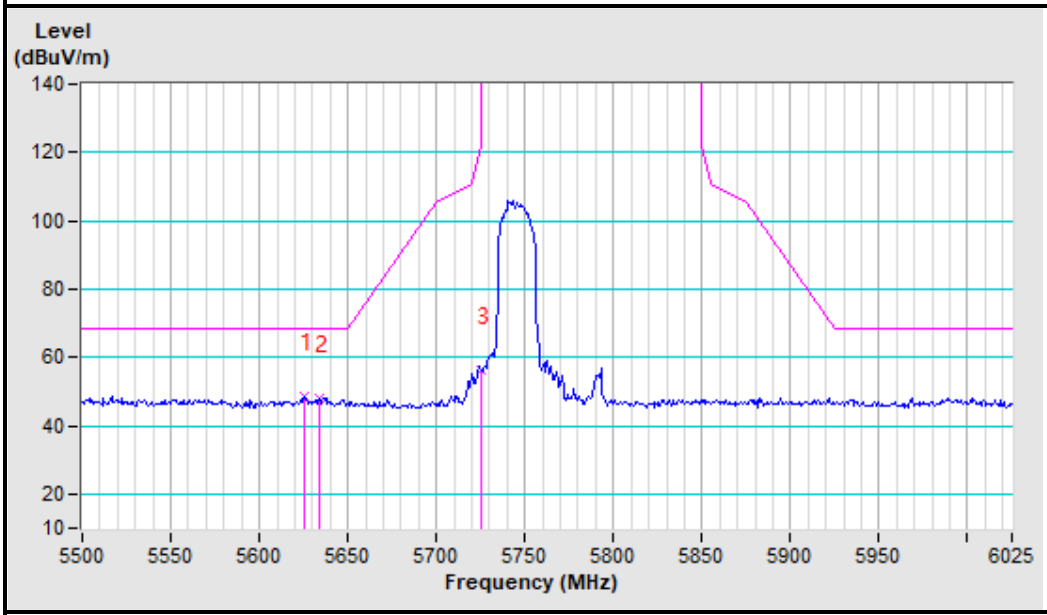
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5625.87	48.36 PK	68.20	-19.84	1.50 H	97	42.37	5.99
2	#5634.23	48.20 PK	68.20	-20.00	1.50 H	97	42.20	6.00
3	#5725.00	56.27 PK	122.20	-65.93	1.50 H	97	50.13	6.14
4	*5745.00	105.78 PK			1.75 H	203	99.61	6.17
5	*5745.00	95.43 AV			1.75 H	203	89.26	6.17
6	11490.00	56.16 PK	74.00	-17.84	1.52 H	233	42.35	13.81
7	11490.00	41.74 AV	54.00	-12.26	1.52 H	233	27.93	13.81
8	#17235.00	61.29 PK	68.20	-6.91	1.00 H	18	40.31	20.98
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	#5566.97	48.37 PK	68.20	-19.83	1.00 V	306	42.47	5.90
2	#5725.00	57.82 PK	122.20	-64.38	1.00 V	306	51.68	6.14
3	*5745.00	107.97 PK			1.05 V	29	101.80	6.17
4	*5745.00	97.43 AV			1.05 V	29	91.26	6.17
5	#5968.13	47.72 PK	68.20	-20.48	1.00 V	306	41.21	6.51
6	11490.00	57.39 PK	74.00	-16.61	1.16 V	218	43.58	13.81
7	11490.00	42.52 AV	54.00	-11.48	1.16 V	218	28.71	13.81
8	#17235.00	62.91 PK	68.20	-5.29	1.00 V	54	41.93	20.98

REMARKS:

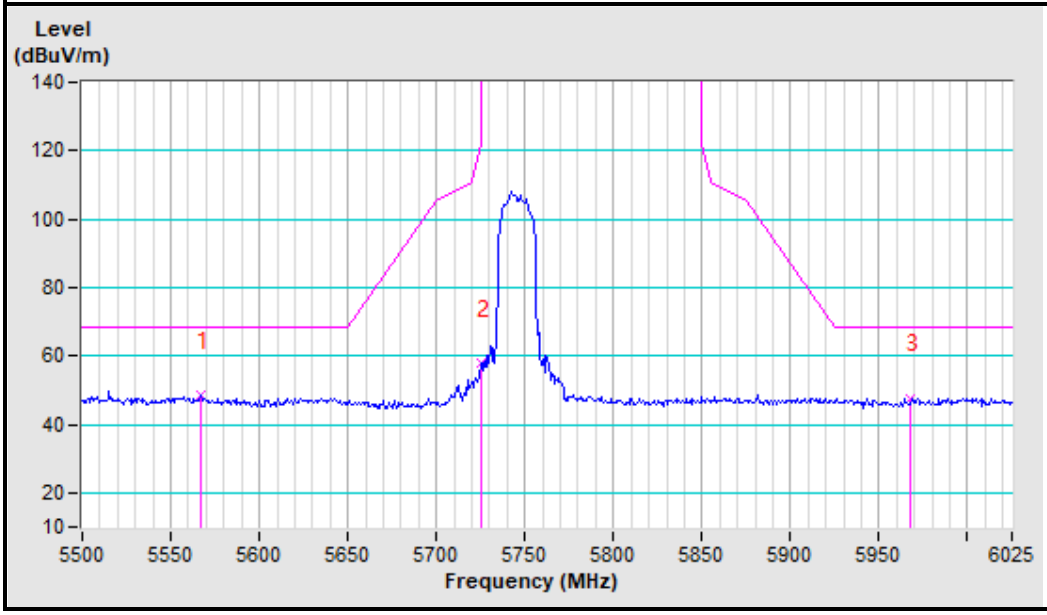
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5745MHz Horizontal



5745MHz Vertical



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

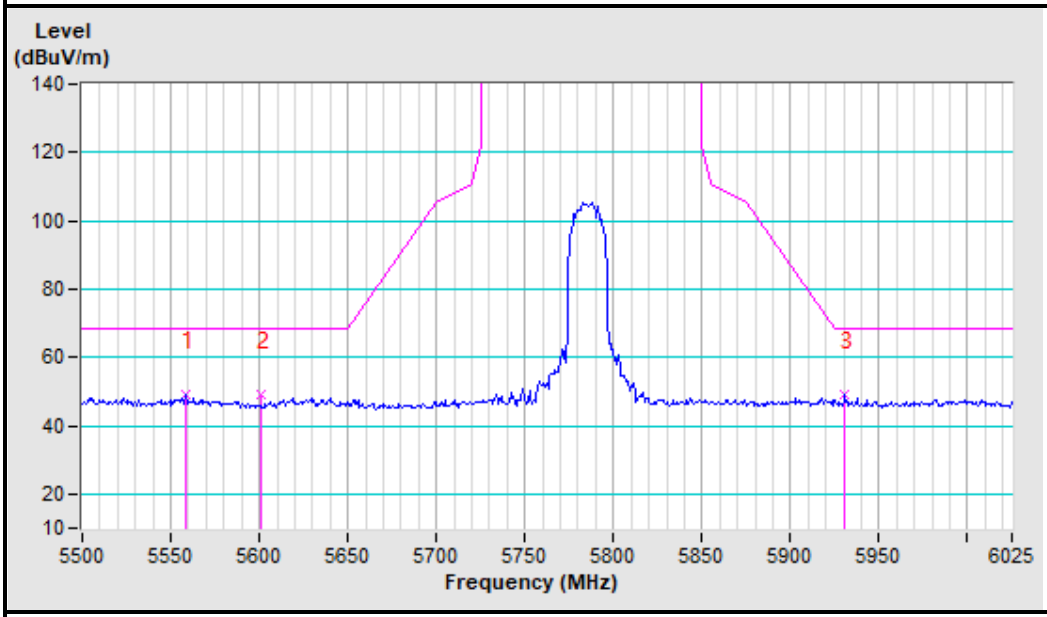
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5558.88	48.86 PK	68.20	-19.34	1.09 H	85	42.97	5.89
2	#5600.67	48.91 PK	68.20	-19.29	1.09 H	85	42.96	5.95
3	*5785.00	105.33 PK			2.00 H	136	99.09	6.24
4	*5785.00	95.49 AV			2.00 H	136	89.25	6.24
5	#5930.41	49.29 PK	68.20	-18.91	1.09 H	85	42.83	6.46
6	11570.00	57.49 PK	74.00	-16.51	1.09 H	315	43.56	13.93
7	11570.00	42.76 AV	54.00	-11.24	1.09 H	315	28.83	13.93
8	#17355.00	62.14 PK	68.20	-6.06	1.00 H	196	40.76	21.38
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	#5556.60	48.55 PK	68.20	-19.65	1.35 V	19	42.66	5.89
2	#5574.08	47.87 PK	68.20	-20.33	1.35 V	19	41.95	5.92
3	#5656.13	48.01 PK	72.75	-24.74	1.35 V	19	41.98	6.03
4	*5785.00	104.92 PK			2.00 V	136	98.68	6.24
5	*5785.00	94.53 AV			2.00 V	136	88.29	6.24
6	11570.00	56.22 PK	74.00	-17.78	1.34 V	211	42.29	13.93
7	11570.00	41.25 AV	54.00	-12.75	1.34 V	211	27.32	13.93
8	#17355.00	61.14 PK	68.20	-7.06	1.00 V	204	39.76	21.38

REMARKS:

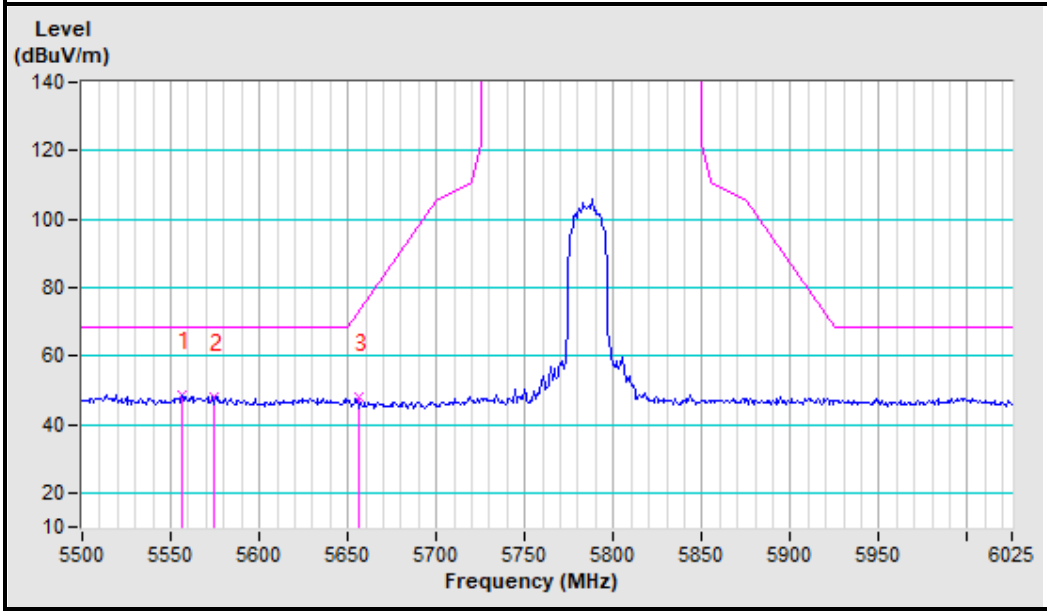
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5785MHz Horizontal



5785MHz Vertical



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

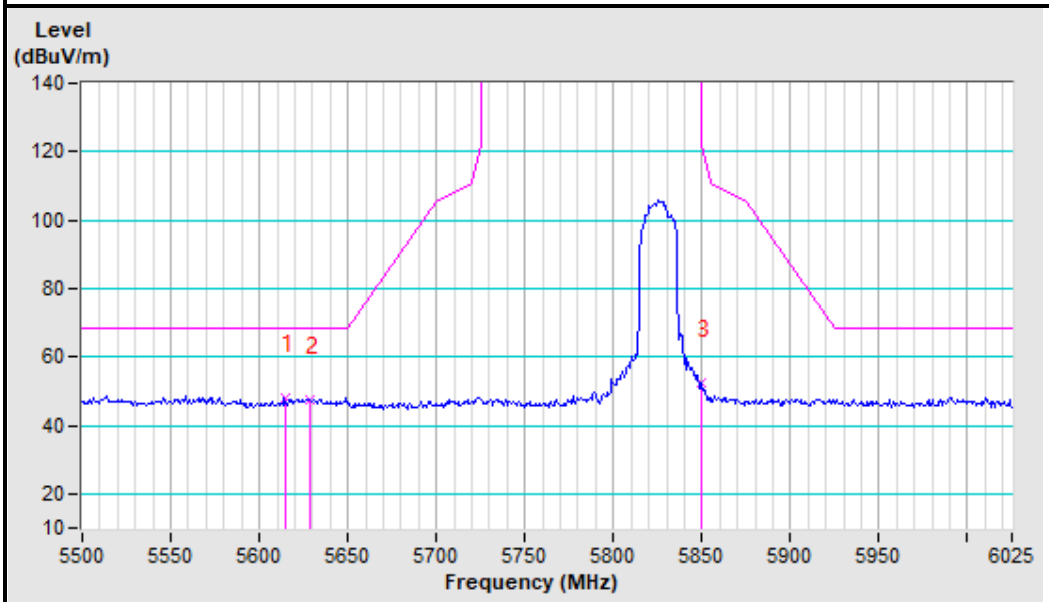
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5614.47	48.09 PK	68.20	-20.11	1.07 H	135	42.12	5.97
2	#5628.15	47.68 PK	68.20	-20.52	1.07 H	135	41.69	5.99
3	*5825.00	105.69 PK			1.06 H	92	99.39	6.30
4	*5825.00	95.17 AV			1.06 H	92	88.87	6.30
5	#5850.00	52.15 PK	122.20	-70.05	1.07 H	135	45.82	6.33
6	11650.00	57.37 PK	74.00	-16.63	1.52 H	305	43.37	14.00
7	11650.00	42.51 AV	54.00	-11.49	1.52 H	305	28.51	14.00
8	#17475.00	62.76 PK	68.20	-5.44	1.00 H	59	40.99	21.77
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	*5825.00	103.68 PK			1.34 V	25	97.38	6.30
2	*5825.00	93.42 AV			1.34 V	25	87.12	6.30
3	#5850.00	51.28 PK	122.20	-70.92	1.00 V	0	44.95	6.33
4	#5984.48	47.70 PK	68.20	-20.50	1.00 V	0	41.17	6.53
5	#5997.40	46.92 PK	68.20	-21.28	1.00 V	0	40.36	6.56
6	11650.00	56.43 PK	74.00	-17.57	1.00 V	296	42.43	14.00
7	11650.00	41.09 AV	54.00	-12.91	1.00 V	296	27.09	14.00
8	#17475.00	61.28 PK	68.20	-6.92	1.00 V	34	39.52	21.77

REMARKS:

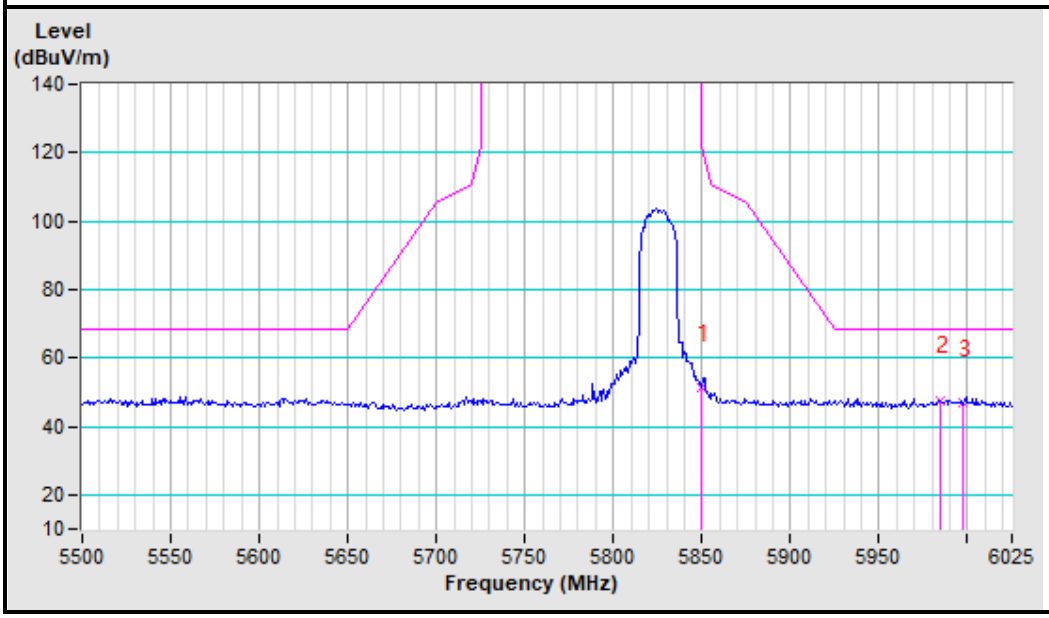
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5825MHz Horizontal



5825MHz Vertical



802.11ax (40MHz)

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

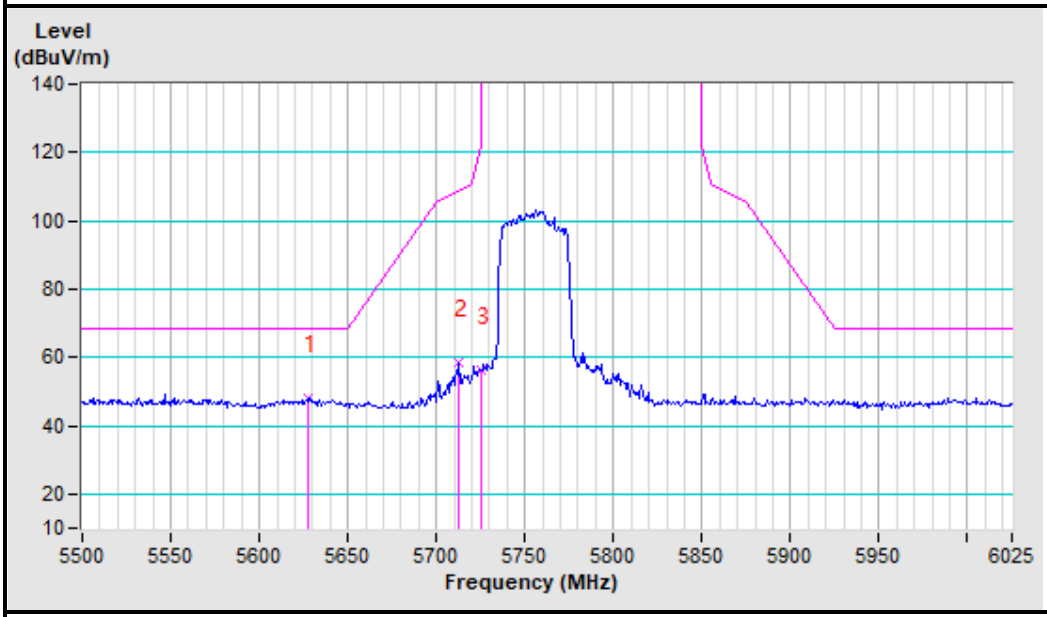
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5627.75	48.22 PK	68.20	-19.98	1.06 H	68	42.23	5.99
2	#5712.84	58.50 PK	108.80	-50.30	1.06 H	68	52.38	6.12
3	#5725.00	56.48 PK	122.20	-65.72	1.06 H	68	50.34	6.14
4	*5755.00	103.26 PK			1.07 H	85	97.07	6.19
5	*5755.00	93.52 AV			1.07 H	85	87.33	6.19
6	11510.00	56.26 PK	74.00	-17.74	1.02 H	357	42.39	13.87
7	11510.00	41.15 AV	54.00	-12.85	1.02 H	357	27.28	13.87
8	#17265.00	61.22 PK	68.20	-6.98	1.00 H	126	40.14	21.08
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	#5611.79	48.78 PK	68.20	-19.42	1.13 V	97	42.81	5.97
2	#5637.63	48.72 PK	68.20	-19.48	1.13 V	97	42.71	6.01
3	#5725.00	56.86 PK	122.20	-65.34	1.13 V	97	50.72	6.14
4	*5755.00	105.59 PK			1.18 V	234	99.40	6.19
5	*5755.00	95.16 AV			1.18 V	234	88.97	6.19
6	11510.00	57.34 PK	74.00	-16.66	1.24 V	58	43.47	13.87
7	11510.00	42.63 AV	54.00	-11.37	1.24 V	58	28.76	13.87
8	#17265.00	62.48 PK	68.20	-5.72	1.00 V	312	41.40	21.08

REMARKS:

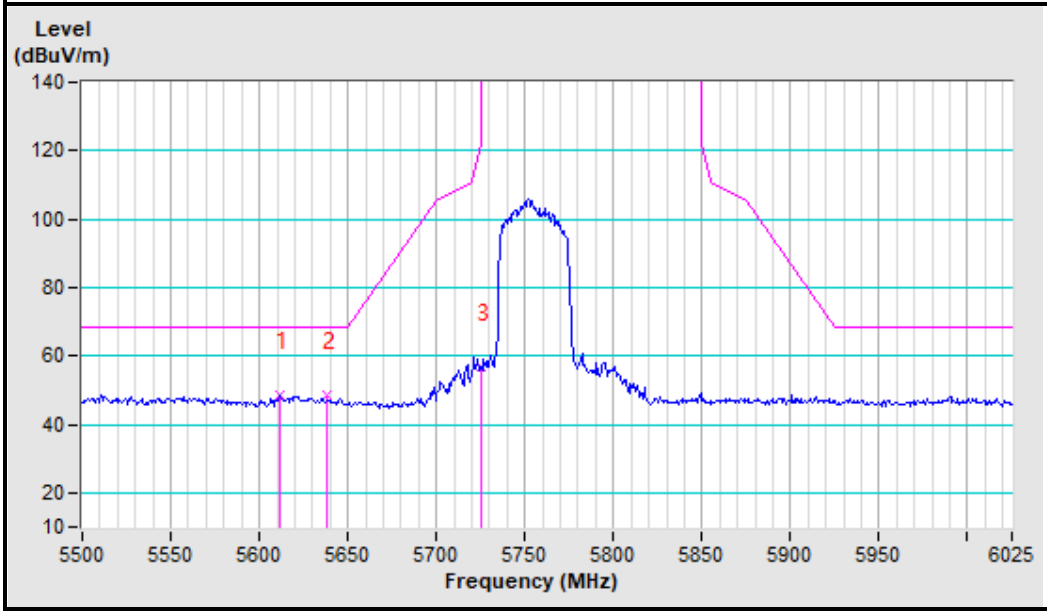
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5755MHz Horizontal



5755MHz Vertical



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

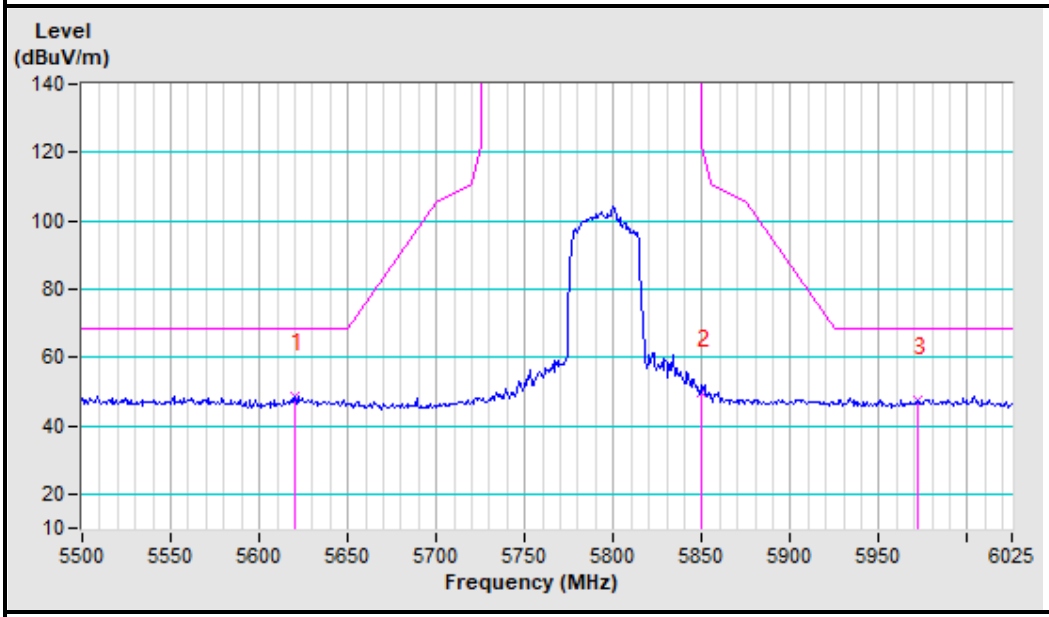
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	#5620.55	48.63 PK	68.20	-19.57	1.00 H	0	42.64	5.99
2	*5795.00	104.08 PK			1.76 H	238	97.83	6.25
3	*5795.00	94.23 AV			1.76 H	238	87.98	6.25
4	#5850.00	49.70 PK	122.20	-72.50	1.00 H	0	43.37	6.33
5	#5971.56	47.47 PK	68.20	-20.73	1.00 H	0	40.95	6.52
6	11590.00	57.89 PK	74.00	-16.11	1.56 H	49	43.94	13.95
7	11590.00	42.58 AV	54.00	-11.42	1.56 H	49	28.63	13.95
8	#17385.00	62.91 PK	68.20	-5.29	1.00 H	201	41.44	21.47
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	#5548.37	49.07 PK	68.20	-19.13	1.08 V	47	43.20	5.87
2	*5795.00	102.73 PK			2.00 V	48	96.48	6.25
3	*5795.00	93.56 AV			2.00 V	48	87.31	6.25
4	#5850.00	51.24 PK	122.20	-70.96	1.08 V	47	44.91	6.33
5	#5982.96	47.62 PK	68.20	-20.58	1.08 V	47	41.09	6.53
6	11590.00	56.29 PK	74.00	-17.71	1.02 V	319	42.34	13.95
7	11590.00	41.45 AV	54.00	-12.55	1.02 V	319	27.50	13.95
8	#17385.00	61.22 PK	68.20	-6.98	1.00 V	40	39.75	21.47

REMARKS:

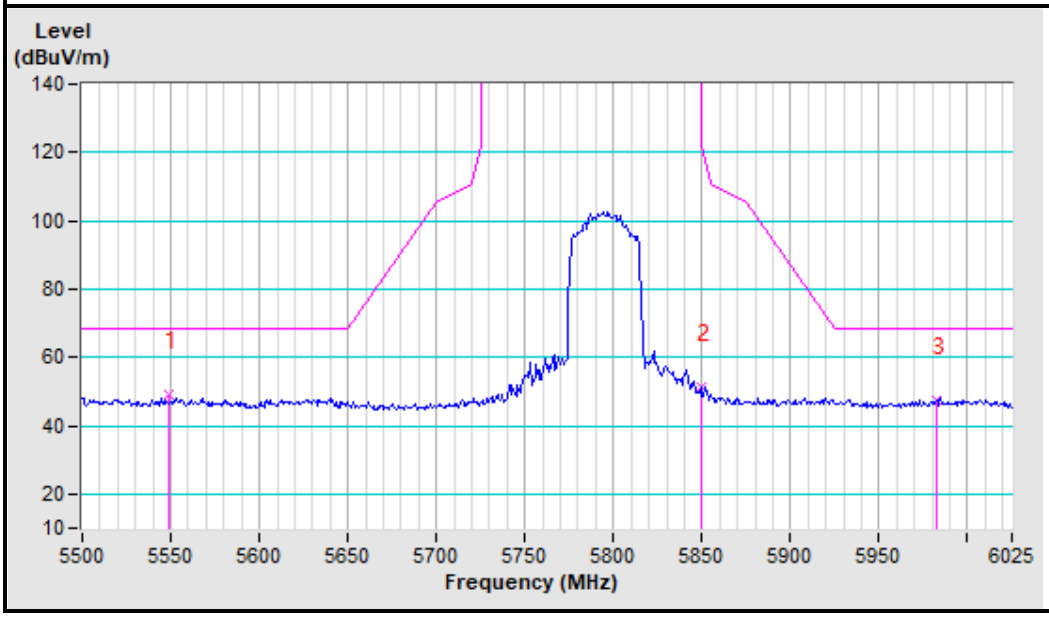
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental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

Band edge Plot

5795MHz Horizontal



5795MHz Vertical



802.11ax 80MHz

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

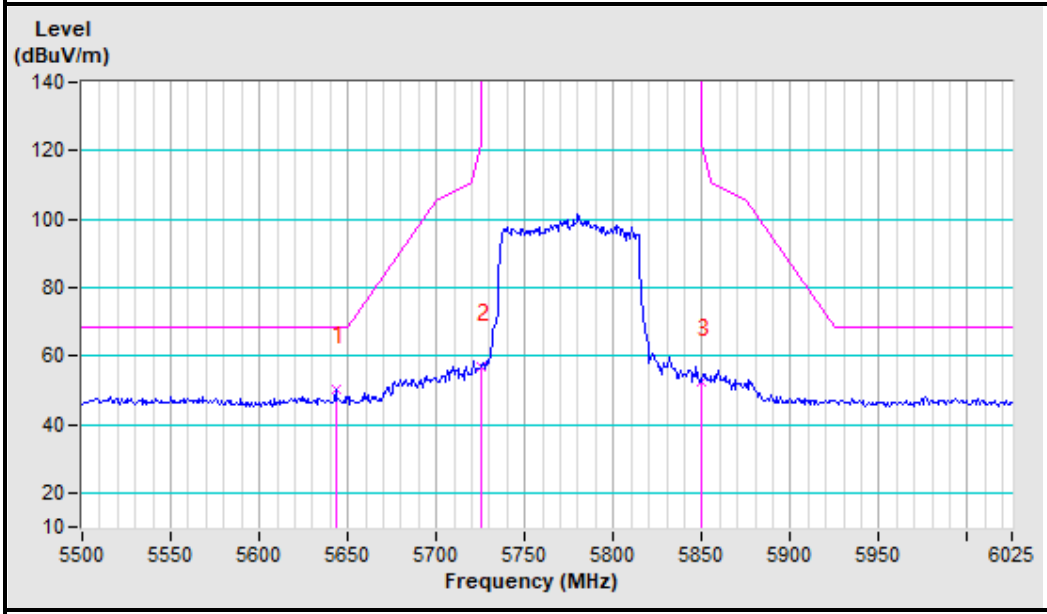
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	**FREQ. (MHz)**	**EMISSION LEVEL (dBuV/m)**	**LIMIT (dBuV/m)**	**MARGIN (dB)**	**ANTENNA HEIGHT (m)**	**TABLE ANGLE (Degree)**	**RAW VALUE (dBuV)**	**CORRECTION FACTOR (dB/m)**
1	#5643.34	49.94 PK	68.20	-18.26	1.15 H	46	43.92	6.02
2	#5725.00	56.64 PK	122.20	-65.56	1.15 H	46	50.50	6.14
3	*5775.00	101.31 PK			2.00 H	105	95.09	6.22
4	*5775.00	91.14 AV			2.00 H	105	84.92	6.22
5	#5850.00	52.47 PK	122.20	-69.73	1.15 H	46	46.14	6.33
6	11550.00	57.69 PK	74.00	-16.31	1.36 H	29	43.78	13.91
7	11550.00	42.71 AV	54.00	-11.29	1.36 H	29	28.80	13.91
8	#17325.00	63.05 PK	68.20	-5.15	1.00 H	342	41.77	21.27
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	#5725.00	58.14 PK	122.20	-64.06	1.00 V	336	52.00	6.14
2	#5755.00	100.59 PK			1.29 V	311	94.40	6.19
3	**#5755.00**	**90.21 AV**			**1.29 V**	**311**	**84.02**	**6.19**
4	#5850.00	54.79 PK	122.20	-67.41	1.00 V	336	48.46	6.33
5	#5875.07	55.78 PK	105.15	-49.37	1.00 V	336	49.41	6.37
6	11550.00	56.51 PK	74.00	-17.49	1.05 V	46	42.60	13.91
7	11550.00	41.27 AV	54.00	-12.73	1.05 V	46	27.36	13.91
8	#17325.00	61.94 PK	68.20	-6.26	1.00 V	251	40.66	21.27

REMARKS:

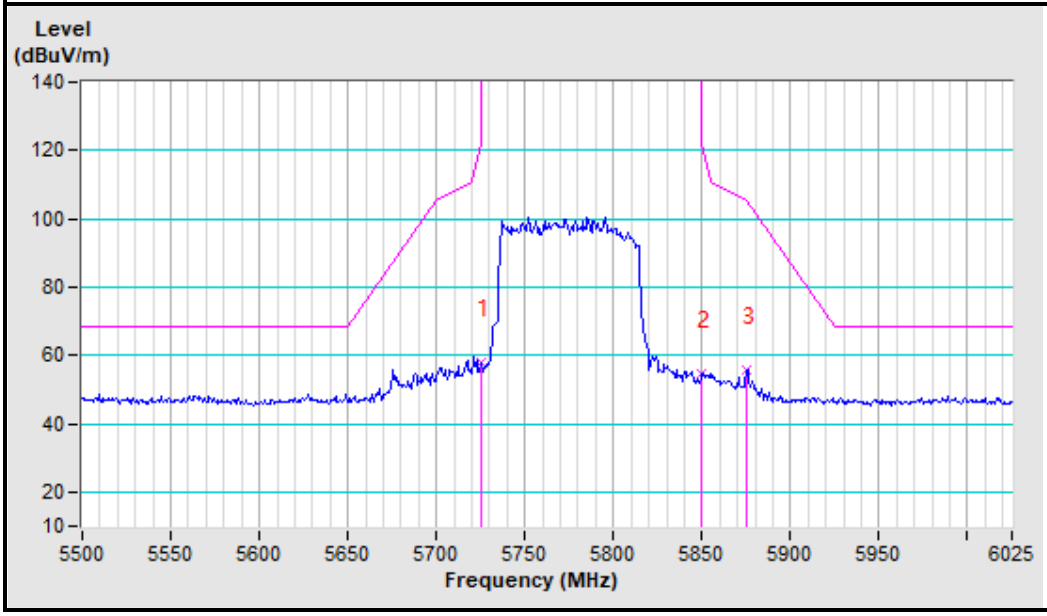
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
3. The emission levels of other frequencies were less than 20dB margin against the limit.
4. Margin value = Emission level – Limit value.
5. " * ": Fundamental 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 (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

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

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

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	Jan. 18, 23
Artificial Mains Network	Rohde&Schwarz	ENV216	101173	Jan. 23, 23
Artificial Mains Network	Rohde&Schwarz	ESH3-Z5	100317	Jan. 18, 23
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

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

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

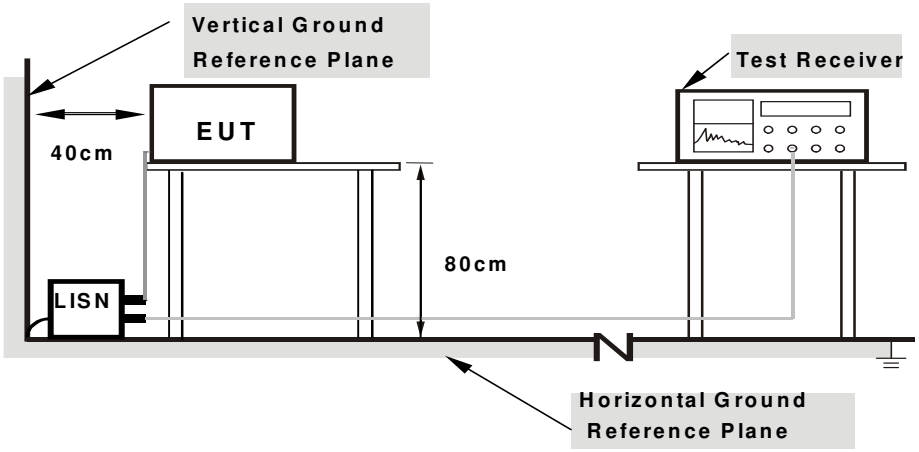
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) were not recorded.

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 3.1.6

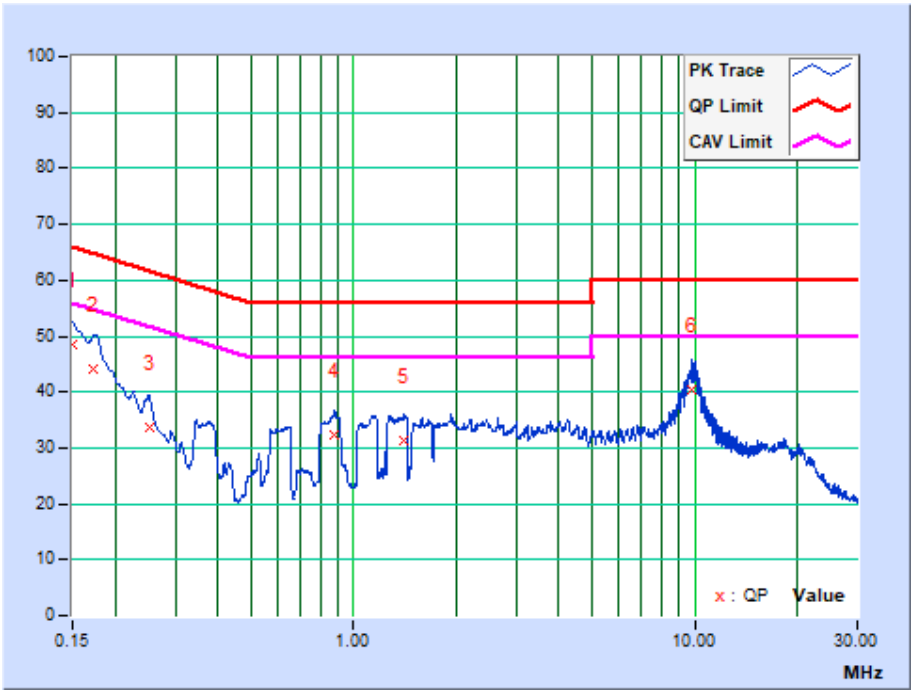
3.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA: 802.11a

PHASE	Line	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.90	38.59	26.31	48.49	36.21	66.00	56.00	-17.51	-19.79
2	0.17282	9.91	34.22	29.64	44.13	39.55	64.82	54.82	-20.69	-15.27
3	0.25144	9.93	23.89	11.60	33.82	21.53	61.71	51.71	-27.88	-30.17
4	0.88125	10.02	22.29	14.23	32.31	24.25	56.00	46.00	-23.69	-21.75
5	1.40997	10.06	21.21	9.99	31.27	20.05	56.00	46.00	-24.73	-25.95
6	9.79800	10.30	30.23	25.44	40.53	35.74	60.00	50.00	-19.47	-14.26

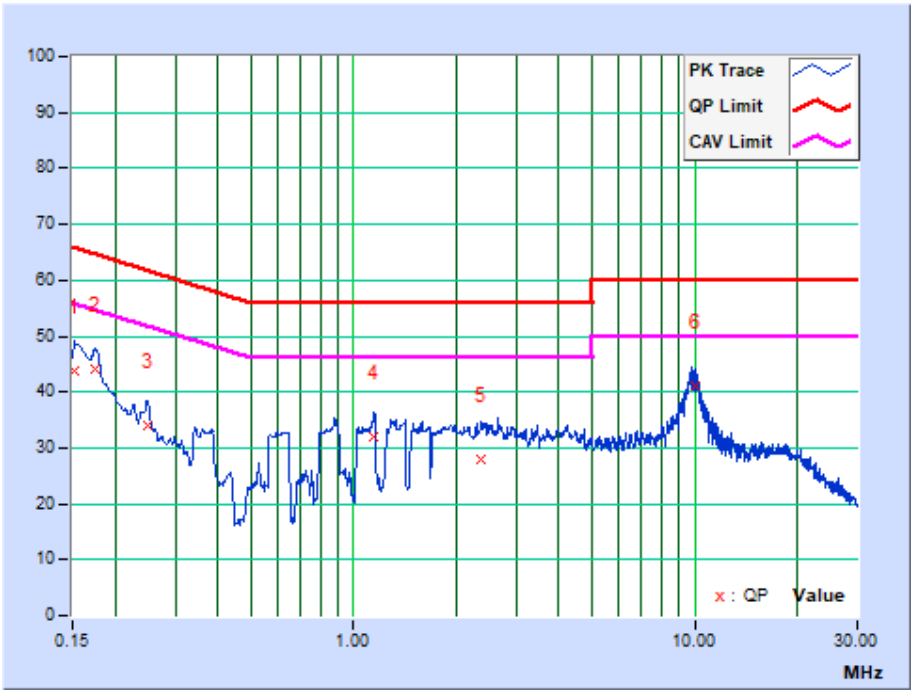
REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading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



PHASE	Neutral	6dB BANDWIDTH	9kHz

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15225	9.84	33.83	23.58	43.67	33.42	65.88	55.88	-22.21	-22.46
2	0.17420	9.84	34.24	30.95	44.08	40.79	64.76	54.76	-20.67	-13.96
3	0.24900	9.85	24.01	10.80	33.86	20.65	61.79	51.79	-27.93	-31.14
4	1.14675	9.90	21.92	6.72	31.82	16.62	56.00	46.00	-24.18	-29.38
5	2.36625	9.92	17.90	5.37	27.82	15.29	56.00	46.00	-28.18	-30.71
6	10.04100	10.13	30.81	26.74	40.94	36.87	60.00	50.00	-19.06	-13.13

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak an d 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.



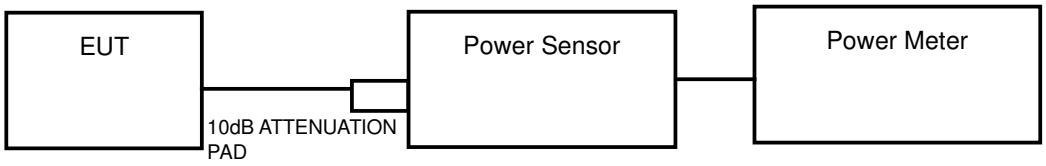
3.3 TRANSMIT POWER MEASUREMENT

3.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

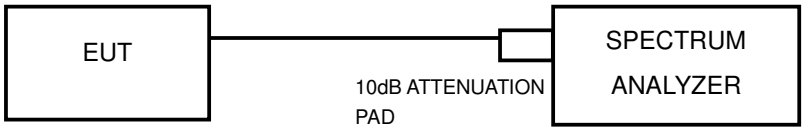
Operation Band	EUT Category		LIMIT
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p ≦ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Mobile and Portable client 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	MY57320002	Feb. 23, 23
Power Sensor	Keysight	U2021XA	MY55060018	May 09, 23
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	Jan. 16, 23
Signal Generator	Agilent	N5183A	MY50140980	Sep. 18, 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)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	13.55	12.20	22.646	16.596	39.242	15.94	24.00	PASS
40	5200	12.95	11.89	19.724	15.453	35.177	15.46	24.00	PASS
48	5240	12.38	11.15	17.298	13.032	30.33	14.82	24.00	PASS
52	5260	13.59	12.31	22.856	17.022	39.878	16.01	23.65	PASS
60	5300	12.82	11.52	19.143	14.191	33.334	15.23	23.65	PASS
64	5320	12.63	10.73	18.323	11.83	30.153	14.79	23.65	PASS
100	5500	13.89	11.73	24.491	14.894	39.385	15.95	23.65	PASS
116	5580	12.16	10.93	16.444	12.388	28.832	14.60	23.65	PASS
140	5700	11.64	10.54	14.588	11.324	25.912	14.14	23.65	PASS
149	5745	12.12	12.06	16.293	16.069	32.362	15.10	30.00	PASS
157	5785	11.92	11.86	15.56	15.346	30.906	14.90	30.00	PASS
165	5825	11.82	11.66	15.205	14.655	29.86	14.75	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(18.07)= 23.57dBm < 24dBm

18.07MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

802.11n (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	11.62	10.19	14.521	10.447	24.968	13.97	24.00	PASS
40	5200	11.53	10.14	14.223	10.328	24.551	13.90	24.00	PASS
48	5240	10.64	9.52	11.588	8.954	20.542	13.13	23.88	PASS
52	5260	11.68	10.15	14.723	10.351	25.074	13.99	23.88	PASS
60	5300	11.42	9.16	13.868	8.241	22.109	13.45	23.88	PASS
64	5320	10.65	8.63	11.614	7.295	18.909	12.77	23.88	PASS
100	5500	11.61	10.21	14.488	10.495	24.983	13.98	23.88	PASS
116	5580	10.82	9.68	12.078	9.29	21.368	13.30	23.88	PASS
140	5700	10.61	9.16	11.508	8.241	19.749	12.96	24.00	PASS
149	5745	11.09	10.87	12.853	12.218	25.071	13.99	30.00	PASS
157	5785	11.03	10.80	12.677	12.023	24.7	13.93	30.00	PASS
165	5825	11.01	10.82	12.618	12.078	24.696	13.93	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(19.30)= 23.86dBm < 24dBm

19.30MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

802.11n (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	9.87	9.06	9.705	8.054	17.759	12.49	24.00	PASS
46	5230	9.69	8.63	9.311	7.295	16.606	12.20	24.00	PASS
54	5270	10.35	9.41	10.839	8.73	19.569	12.92	24.00	PASS
62	5310	10.12	8.96	10.28	7.87	18.15	12.59	24.00	PASS
102	5510	10.66	8.90	11.641	7.762	19.403	12.88	24.00	PASS
110	5550	9.85	8.09	9.661	6.442	16.103	12.07	24.00	PASS
134	5670	9.04	7.93	8.017	6.209	14.226	11.53	24.00	PASS
151	5755	10.12	9.19	10.28	8.299	18.579	12.69	24.00	PASS
159	5795	10.33	9.60	10.789	9.12	19.909	12.99	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(39.30)= 26.94> 24dBm

39.30MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

802.11ac (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	10.42	9.16	11.015	8.241	19.256	12.85	24.00	PASS
58	5290	10.76	8.92	11.912	7.798	19.71	12.95	24.00	PASS
106	5530	10.79	8.84	11.995	7.656	19.651	12.93	24.00	PASS
122	5610	9.19	7.97	8.299	6.266	14.565	11.63	24.00	PASS
155	5775	10.31	9.50	10.74	8.913	19.653	12.93	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(85.90)= 30.34dBm > 24dBm

85.90MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

802.11ax (20MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	9.28	8.48	8.472	7.047	15.519	11.91	24.00	PASS
40	5200	9.19	8.27	8.299	6.714	15.013	11.76	24.00	PASS
48	5240	9.13	7.78	8.185	5.998	14.183	11.52	24.00	PASS
52	5260	9.83	7.99	9.616	6.295	15.911	12.02	24.00	PASS
60	5300	9.08	7.20	8.091	5.248	13.339	11.25	24.00	PASS
64	5320	8.75	6.76	7.499	4.742	12.241	10.88	24.00	PASS
100	5500	9.71	7.35	9.354	5.433	14.787	11.70	24.00	PASS
116	5580	7.44	6.62	5.546	4.592	10.138	10.06	24.00	PASS
140	5700	7.41	6.17	5.508	4.14	9.648	9.84	24.00	PASS
149	5745	9.85	8.42	9.661	6.95	16.611	12.20	30.00	PASS
157	5785	7.45	8.65	5.559	7.328	12.887	11.10	30.00	PASS
165	5825	7.31	8.88	5.383	7.727	13.11	11.18	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(20.09)= 24.03dBm > 24dBm

20.09MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

802.11ax (40MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	9.34	8.37	8.59	6.871	15.461	11.89	24.00	PASS
46	5230	7.91	7.59	6.18	5.741	11.921	10.76	24.00	PASS
54	5270	9.71	8.45	9.354	6.998	16.352	12.14	24.00	PASS
62	5310	9.10	7.46	8.128	5.572	13.7	11.37	24.00	PASS
102	5510	9.73	7.71	9.397	5.902	15.299	11.85	24.00	PASS
110	5550	8.74	7.21	7.482	5.26	12.742	11.05	24.00	PASS
134	5670	8.36	6.98	6.855	4.989	11.844	10.73	24.00	PASS
151	5755	9.58	8.56	9.078	7.178	16.256	12.11	24.00	PASS
159	5795	9.14	8.33	8.204	6.808	15.012	11.76	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(40.58)= 27.08dBm > 24dBm

40.58MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

802.11ax (80MHz)

Channel Number	FREQ. (MHz)	AVG. CONDUCTED POWER (dBm)		AVG. CONDUCTED POWER (mW)		Total Max. power output		LIMIT (dBm)	PASS /FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	10.42	9.16	11.015	8.241	19.256	12.85	24.00	PASS
58	5290	10.76	8.92	11.912	7.798	19.71	12.95	24.00	PASS
106	5530	10.79	8.84	11.995	7.656	19.651	12.93	24.00	PASS
122	5610	9.19	7.97	8.299	6.266	14.565	11.63	24.00	PASS
155	5775	10.31	9.50	10.74	8.913	19.653	12.93	30.00	PASS

For Band 2~Band 3: Limit = 11dBm+10log(26 BW)=11+10log(81.11)= 30.09dBm > 24dBm

81.11MHz Calculated results correspond to the worst limiting results.

NOTE: Directional gain = 2.22dBi < 6dBi , so the limit is no need to be reduced.

26dB BANDWIDTH:

802.11a

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	18.36	18.13	PASS
40	5200	18.41	18.10	PASS
48	5240	18.44	18.11	PASS
52	5260	18.33	18.13	PASS
60	5300	18.37	18.07	PASS
64	5320	18.38	18.10	PASS
100	5500	18.40	18.09	PASS
132	5660	18.40	18.07	PASS
140	5700	18.41	18.10	PASS

802.11n (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	19.32	19.39	PASS
40	5200	19.30	19.32	PASS
48	5240	19.30	19.33	PASS
52	5260	19.40	19.34	PASS
60	5300	19.34	19.39	PASS
64	5320	19.35	19.36	PASS
100	5500	19.38	19.35	PASS
132	5660	19.34	19.37	PASS
140	5700	19.36	19.34	PASS

802.11n (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
38	5190	39.34	39.34	PASS
46	5230	39.31	39.32	PASS
54	5270	39.31	39.38	PASS
62	5310	39.35	39.39	PASS
102	5510	39.37	39.33	PASS
118	5590	39.41	39.39	PASS
134	5670	39.30	39.34	PASS

802.11ac (80MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
42	5210	86.57	86.25	PASS
58	5290	86.54	86.63	PASS
106	5530	85.90	86.45	PASS
122	5610	86.03	87.28	PASS

802.11ax (20MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
36	5180	20.10	20.18	PASS
40	5200	20.13	20.17	PASS
48	5240	20.15	20.17	PASS
52	5260	20.20	20.18	PASS
60	5300	20.16	20.15	PASS
64	5320	20.11	20.18	PASS
100	5500	20.15	20.19	PASS
132	5660	20.09	20.15	PASS
140	5700	20.14	20.17	PASS

802.11ax (40MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
38	5190	40.59	40.58	PASS
46	5230	40.70	40.64	PASS
54	5270	40.61	40.69	PASS
62	5310	40.61	40.78	PASS
102	5510	40.84	40.64	PASS
118	5590	40.74	40.75	PASS
134	5670	40.60	40.64	PASS

802.11ax (80MHz)

Channel Number	Freq. (MHz)	26dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
42	5210	81.44	81.21	PASS
58	5290	81.29	81.42	PASS
106	5530	81.19	81.15	PASS
122	5610	81.11	81.29	PASS

6dB BANDWIDTH For 5725-5850MHz

802.11a

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
149	**5745**	15.05	15.07	PASS
157	**5785**	15.11	15.10	PASS
165	**5825**	15.11	15.08	PASS

802.11n (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
149	**5745**	15.05	15.09	PASS
157	**5785**	15.07	15.11	PASS
165	**5825**	15.08	15.06	PASS

802.11n (40M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
151	**5755**	30.25	33.91	PASS
159	**5795**	30.18	32.65	PASS

802.11ac (80MHz)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
155	**5775**	75.43	75.47	PASS

802.11ax (20M)

Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
149	**5745**	15.10	15.08	PASS
157	**5785**	13.89	15.12	PASS
165	**5825**	15.06	15.11	PASS

802.11ax (40M)

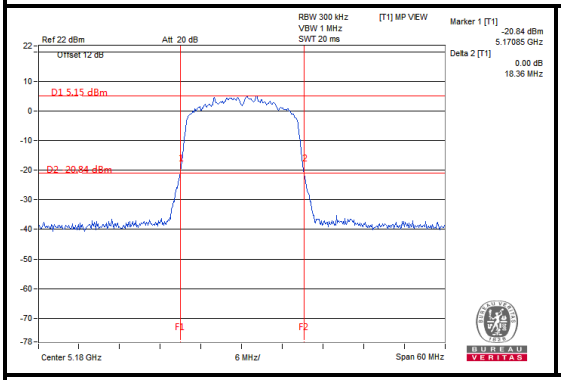
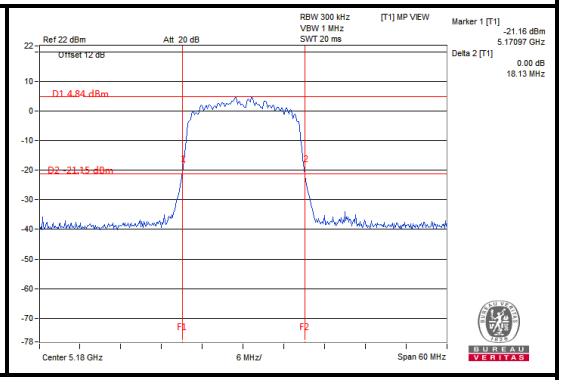
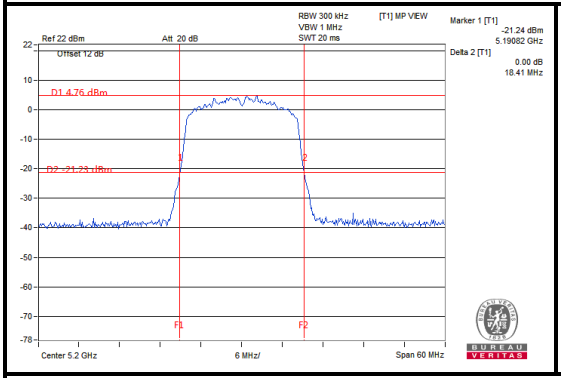
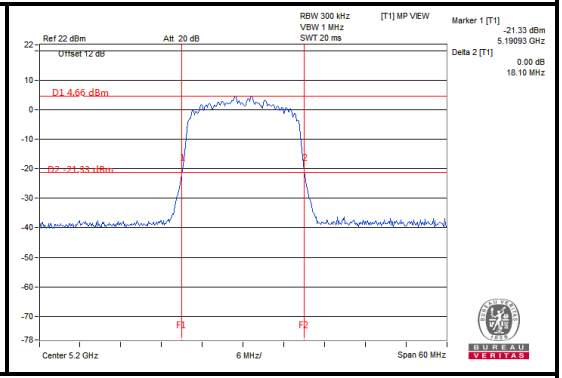
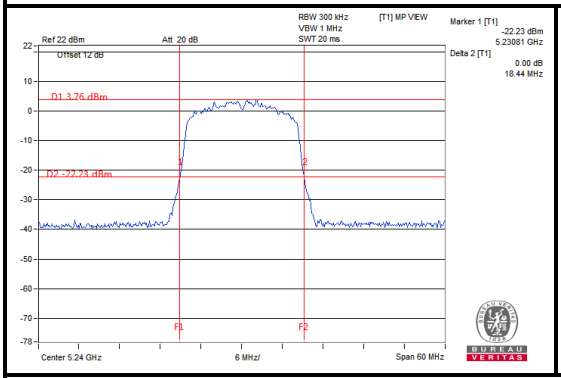
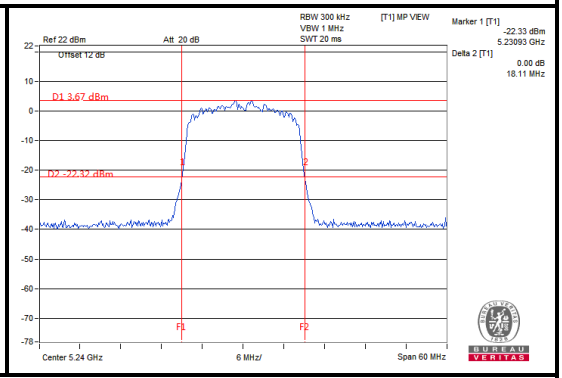
Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
151	**5755**	32.53	32.82	PASS
159	**5795**	30.10	31.34	PASS

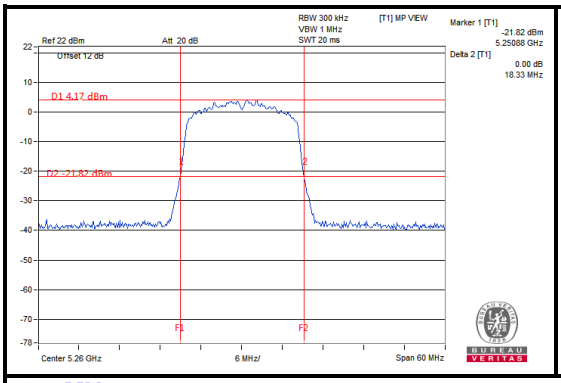
802.11ax (80MHz)

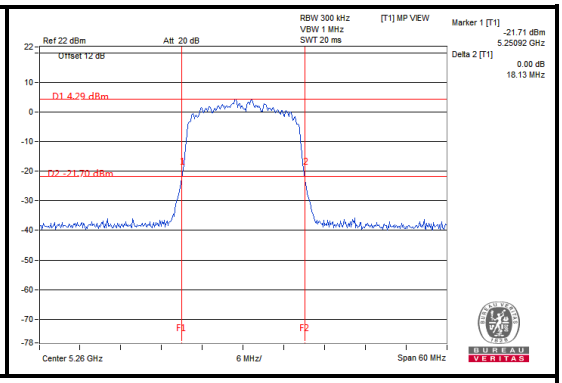
Channel Number	Freq. (MHz)	6dB DOWN BANDWIDTH (MHz)		PASS /FAIL
		Chain 0	Chain 1	
155	**5775**	76.61	75.41	PASS

26dB bandwidth Test Plot

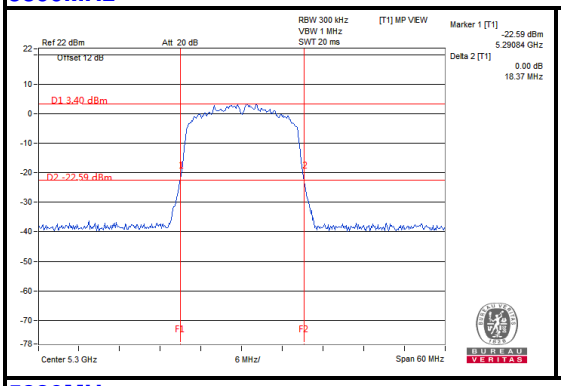
802.11a

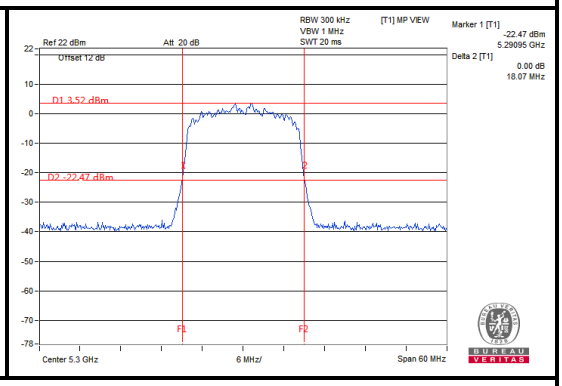
SPECTRUM PLOT	
CHAIN 0	CHAIN 1
5180MHz	
	
5200MHz	
	
5240MHz	
	
5260MHz	



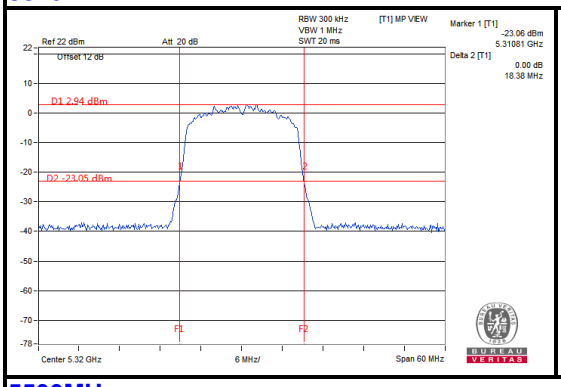


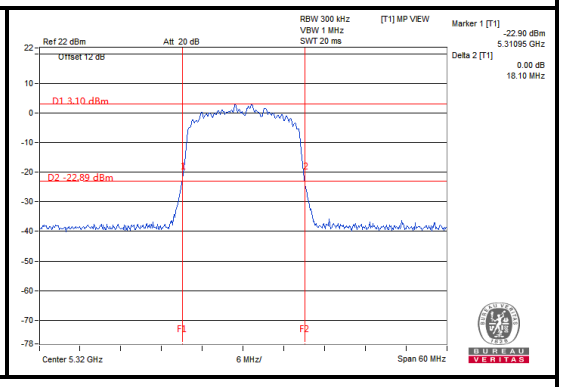
5300MHz



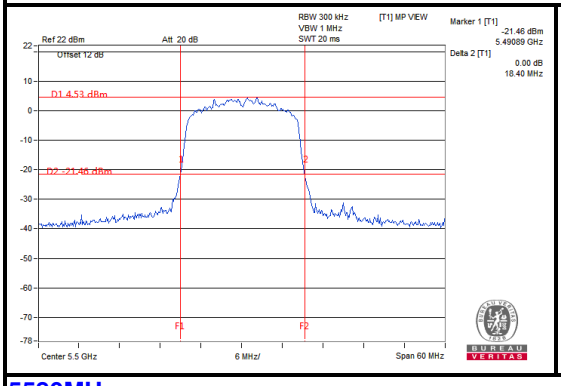


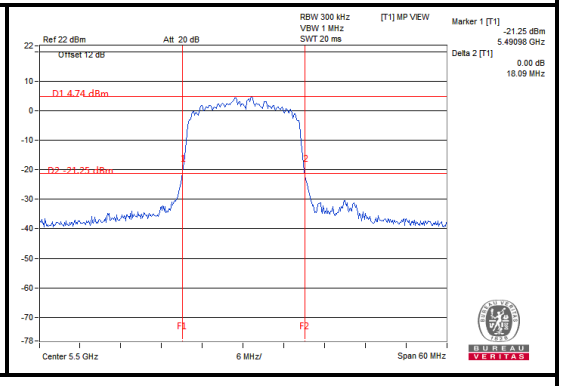
5320MHz



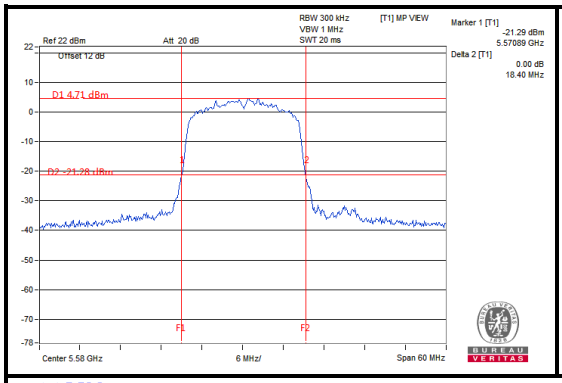


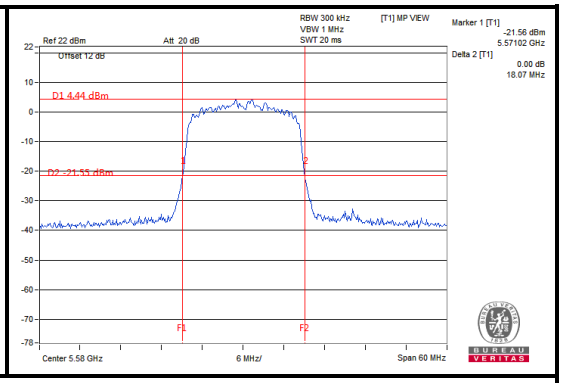
5500MHz



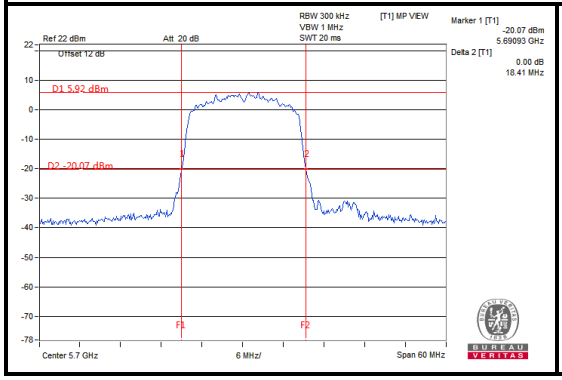


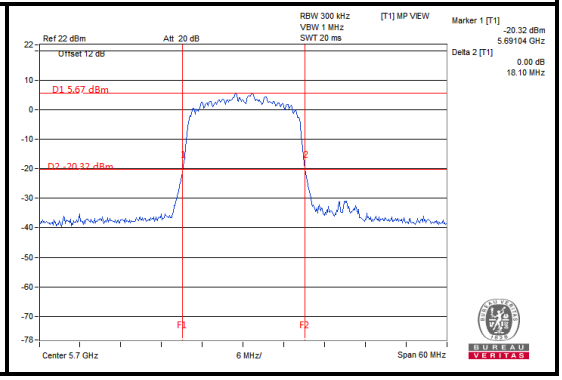
5580MHz





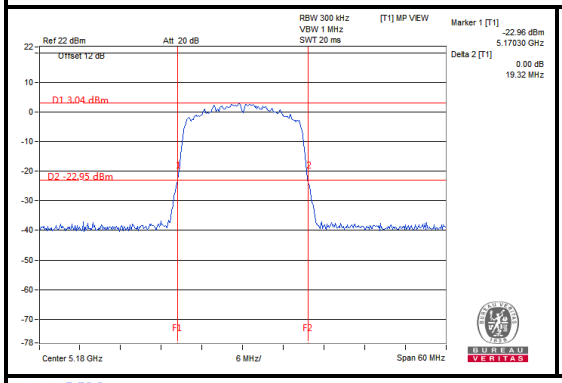
5700MHz

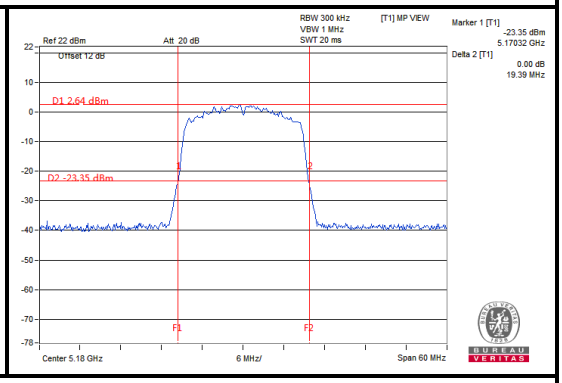




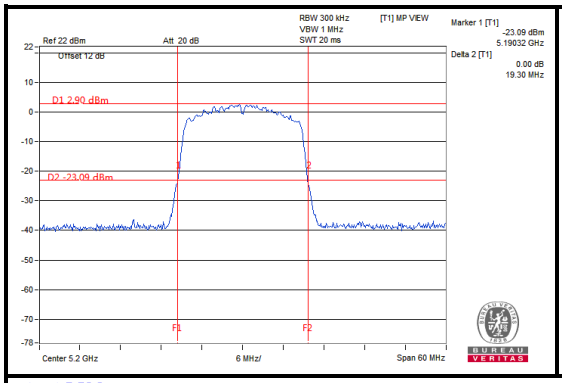
802.11n 20MHz

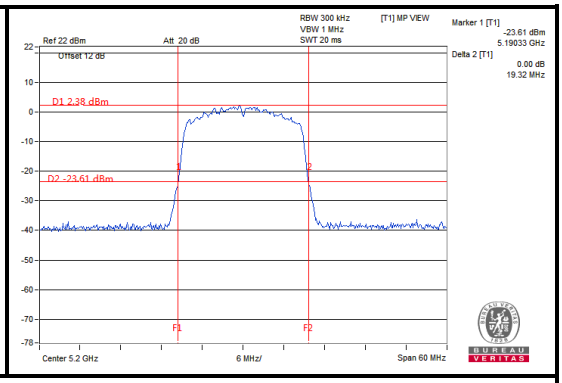
SPECTRUM PLOT	
CHAIN 0	**CHAIN 1**
5180MHz	



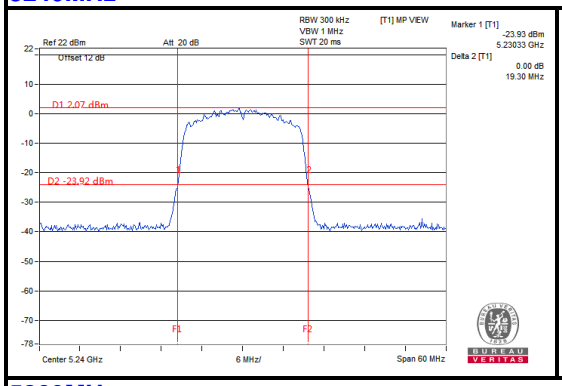


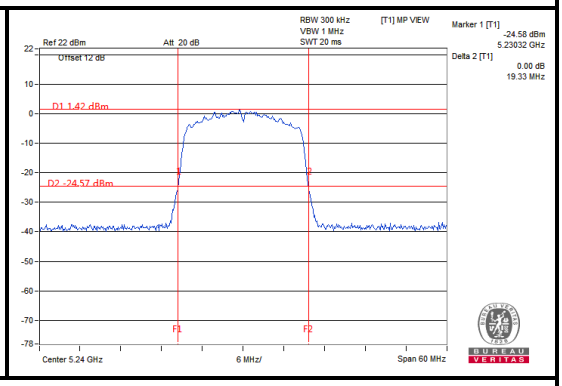
5200MHz



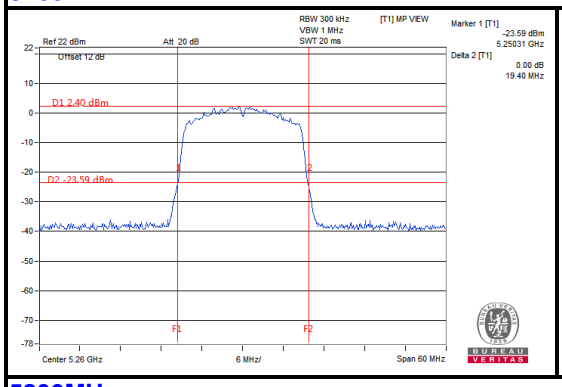


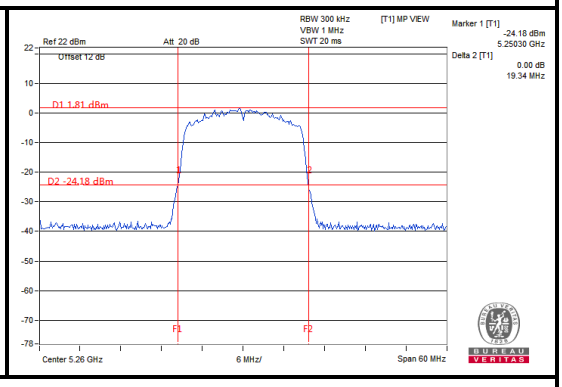
5240MHz



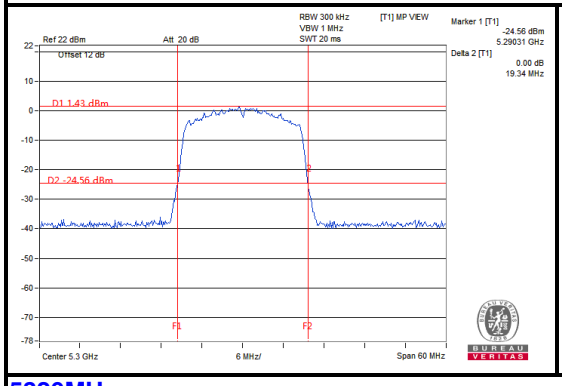


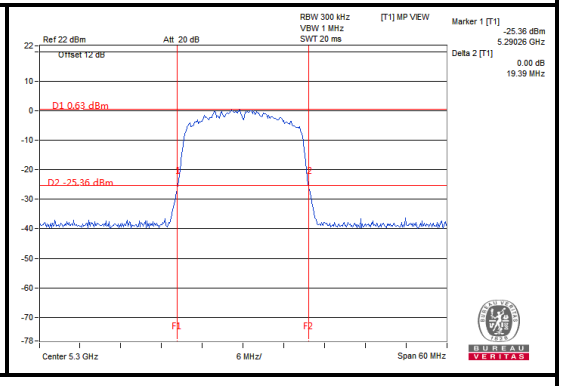
5260MHz



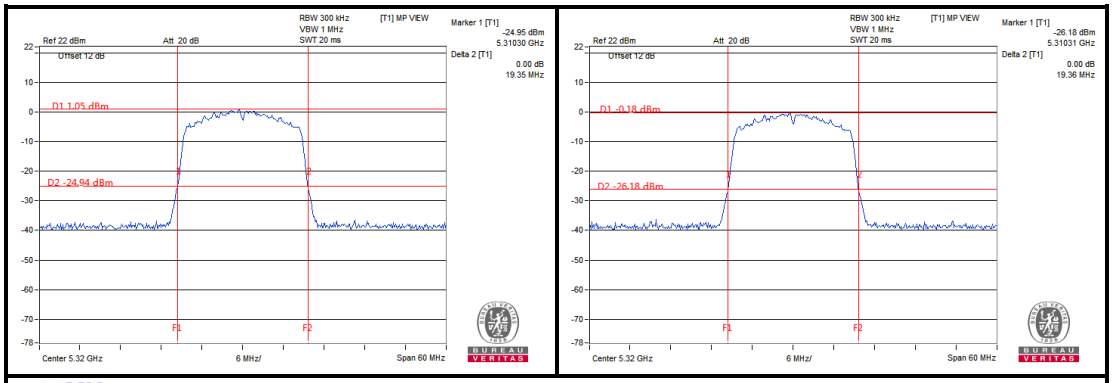


5300MHz

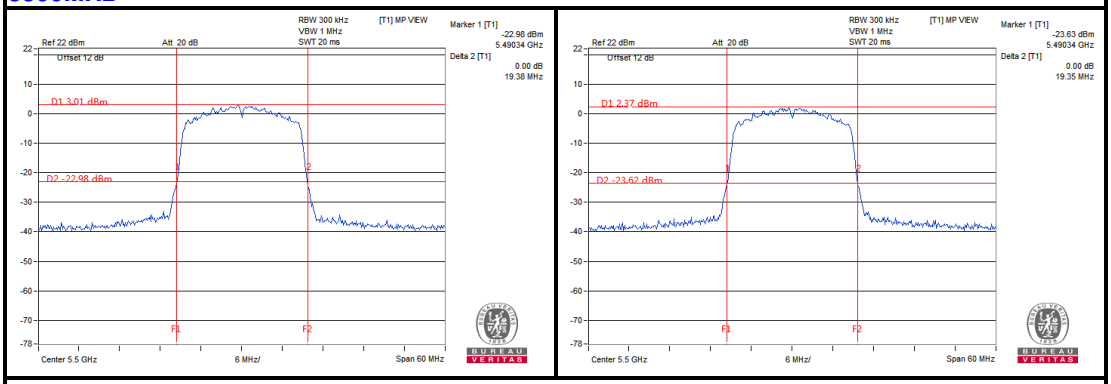




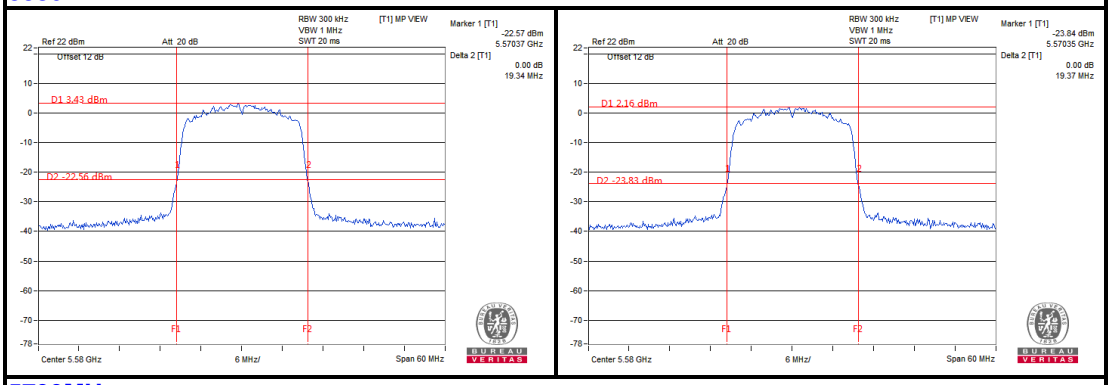
5320MHz



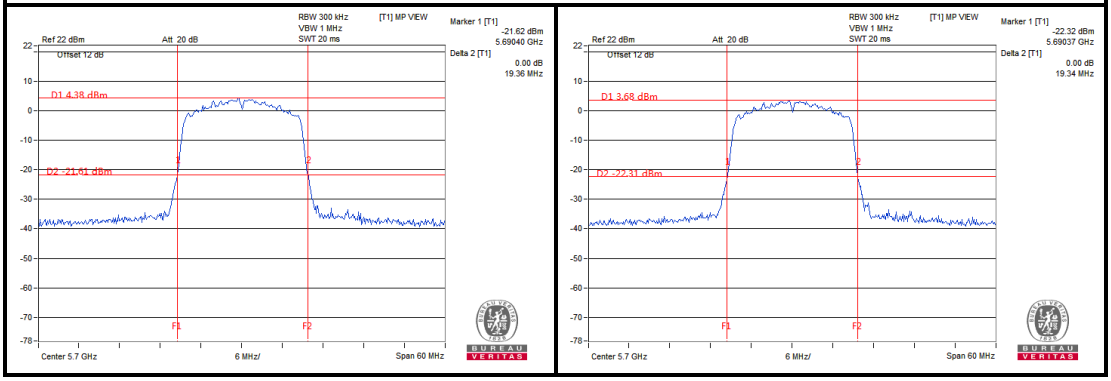
5500MHz



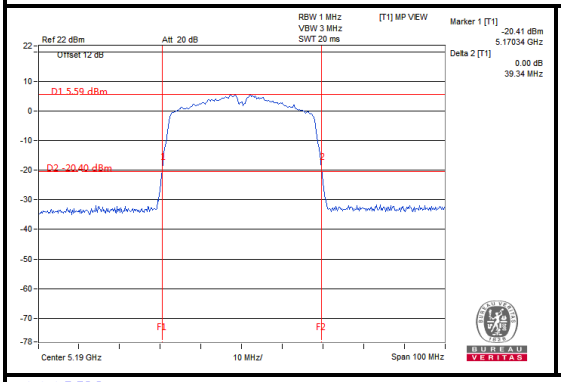
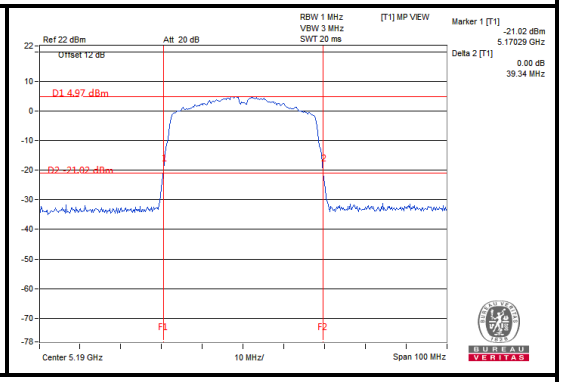
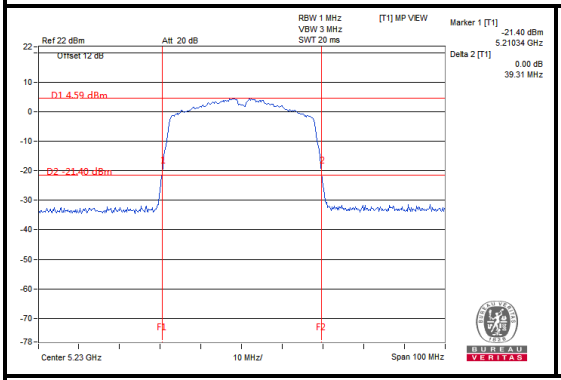
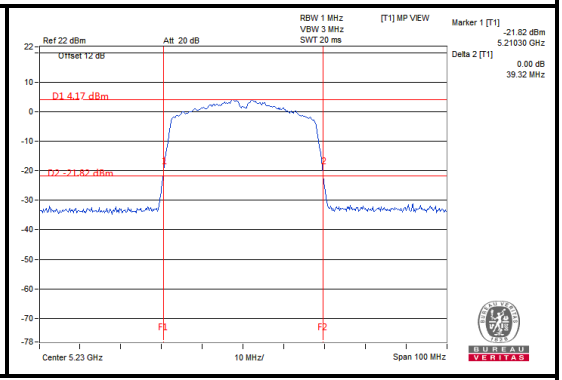
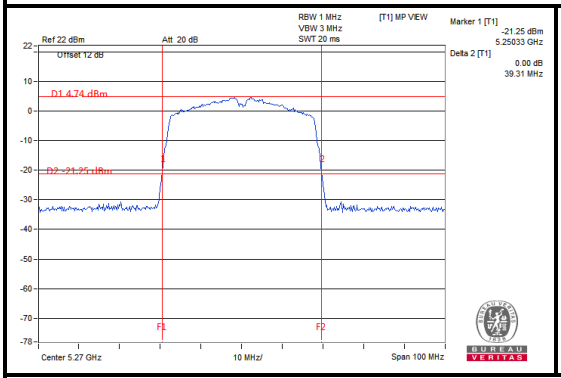
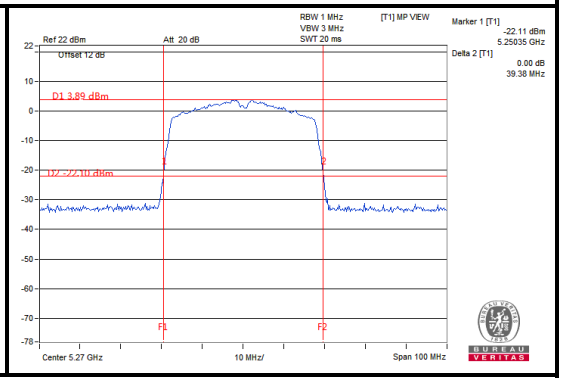
5580MHz

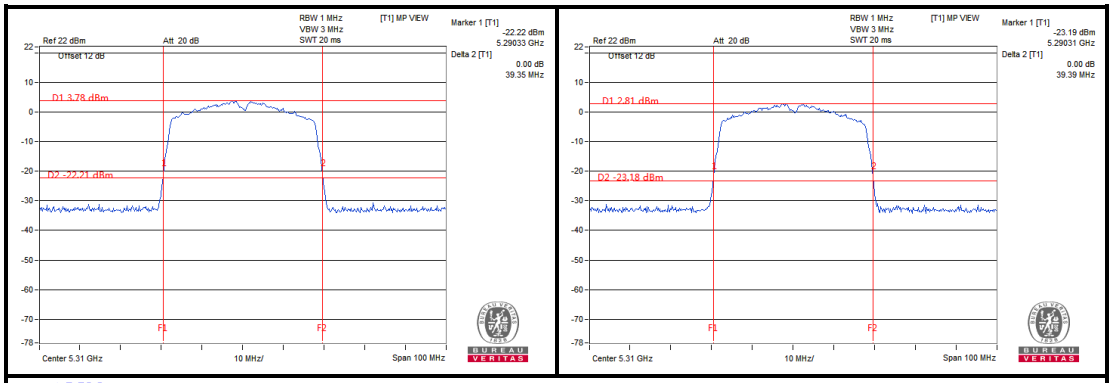


5700MHz

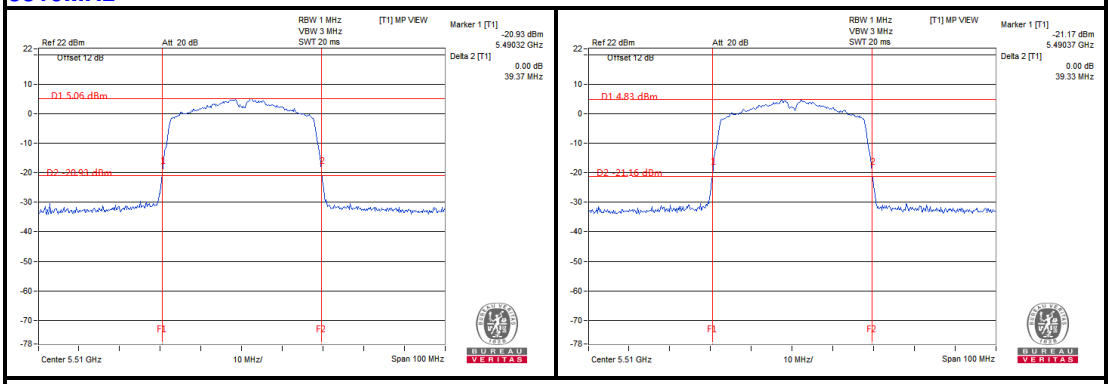


802.11n 40MHz

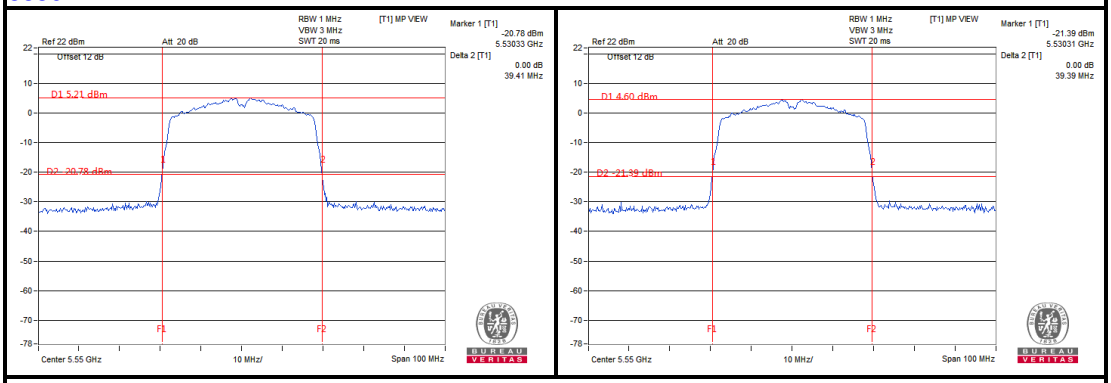
SPECTRUM PLOT	
CHAIN 0	CHAIN 1
5190MHz	
	
5230MHz	
	
5270MHz	
	
5310MHz	



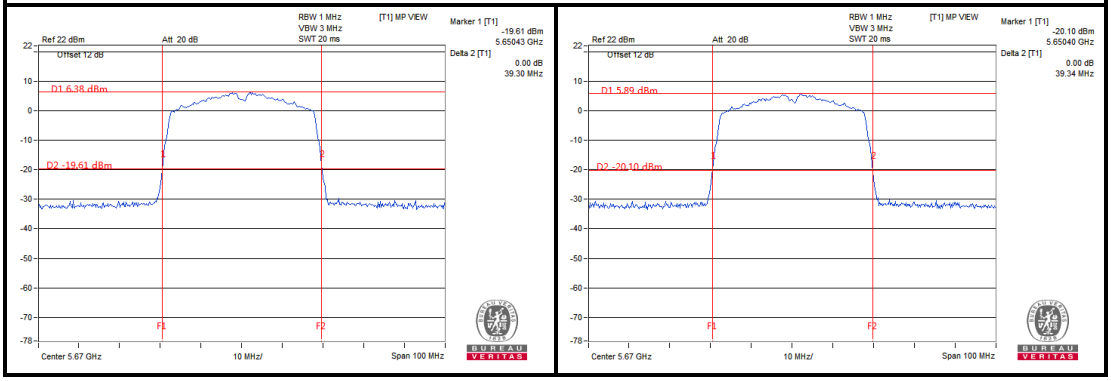
5510MHz



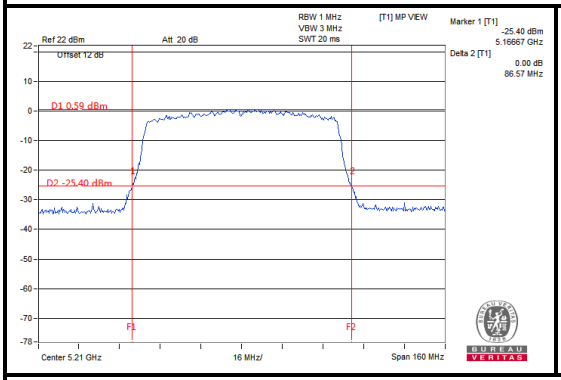
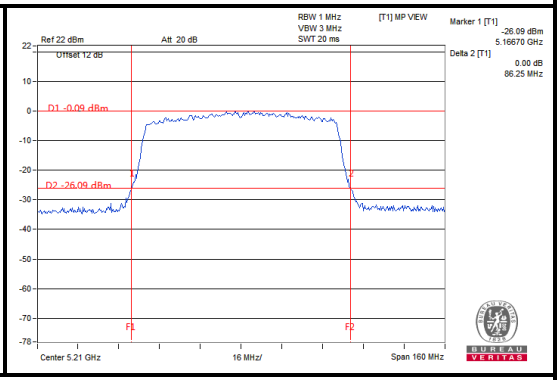
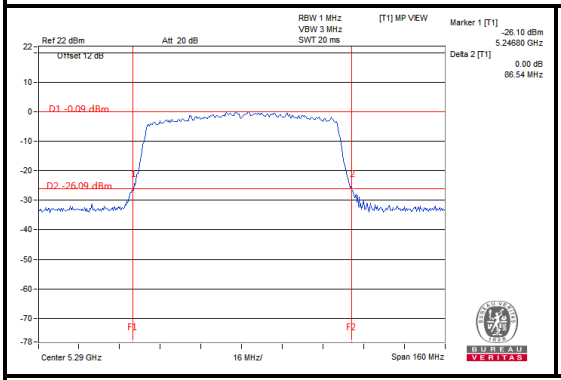
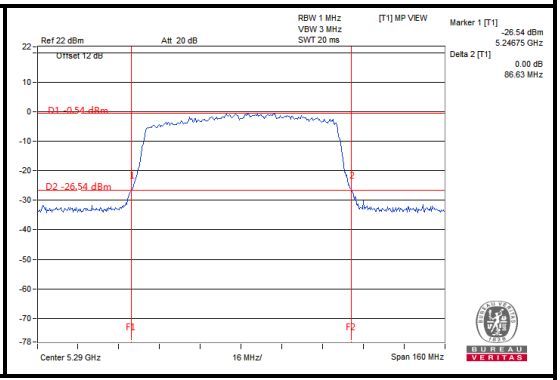
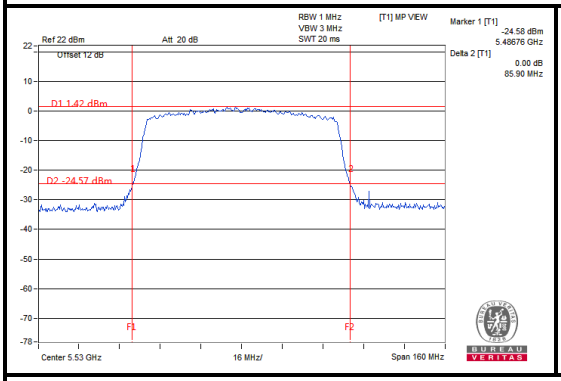
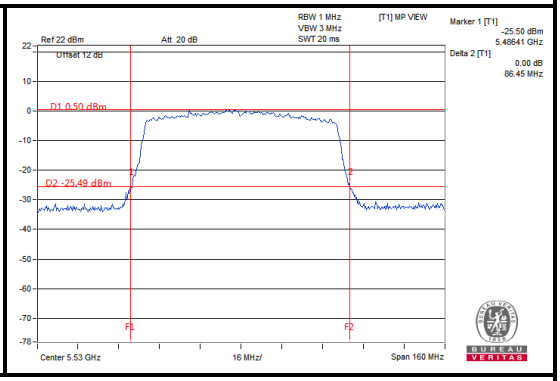
5550MHz

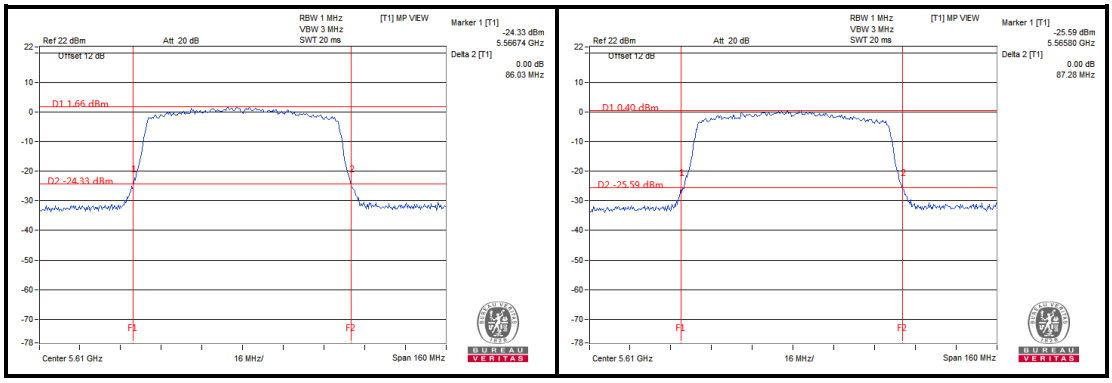


5670MHz

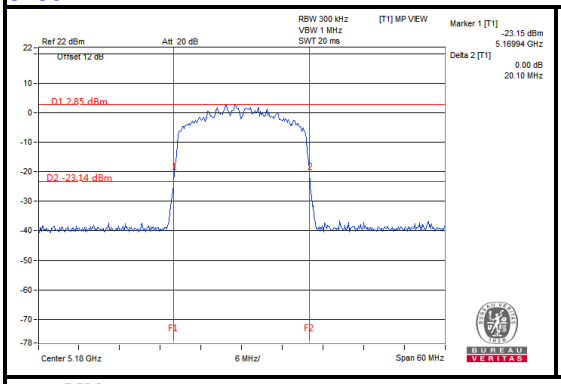
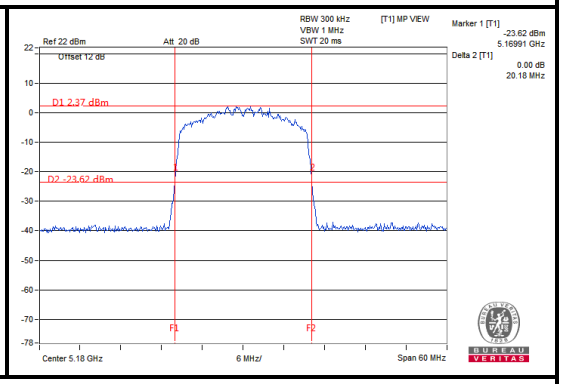
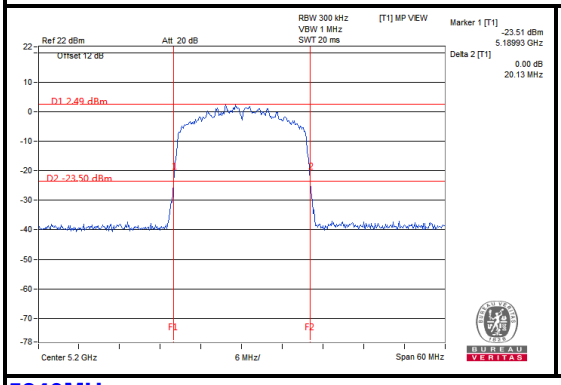
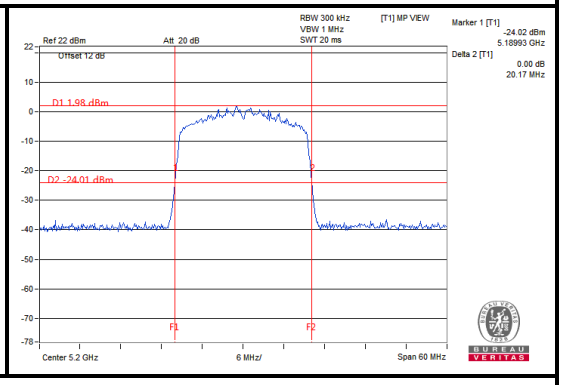
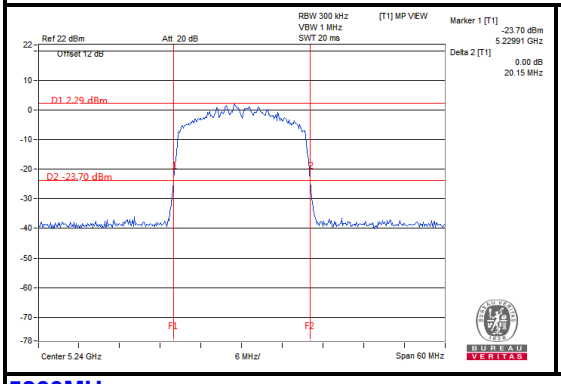
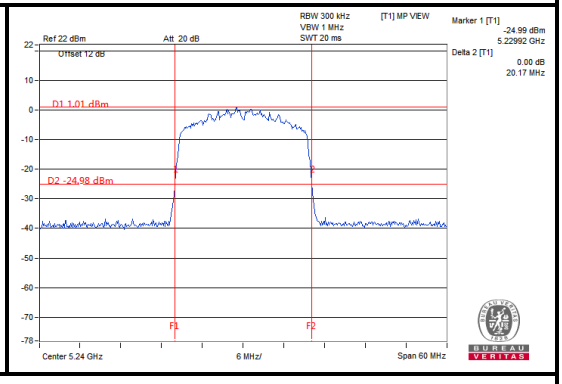


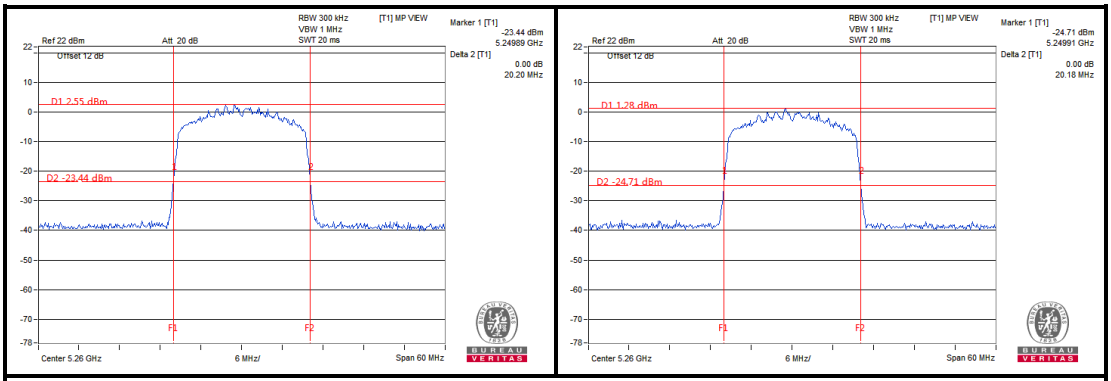
802.11ac (80MHz)

SPECTRUM PLOT	
CHAIN 0	CHAIN 1
5210MHz	
	
5290MHz	
	
5530MHz	
	
5610MHz	

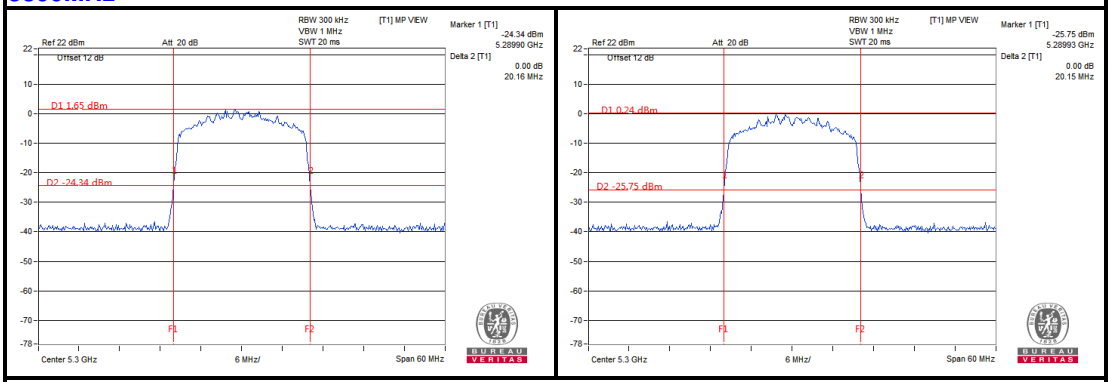

RBW 1 MHz
VBW 3 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-24.33 dBm
5.56674 GHz
Delta 2 [T1]
0.00 dB
86.03 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 1.66 dBm
D2 -24.33 dBm
F1
F2
Center 5.61 GHz
16 MHz/
Span 160 MHz
RBW 1 MHz
VBW 3 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-25.59 dBm
5.56580 GHz
Delta 2 [T1]
0.00 dB
87.28 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 0.40 dBm
D2 -25.59 dBm
F1
F2
Center 5.61 GHz
16 MHz/
Span 160 MHz

802.11ax 20MHz

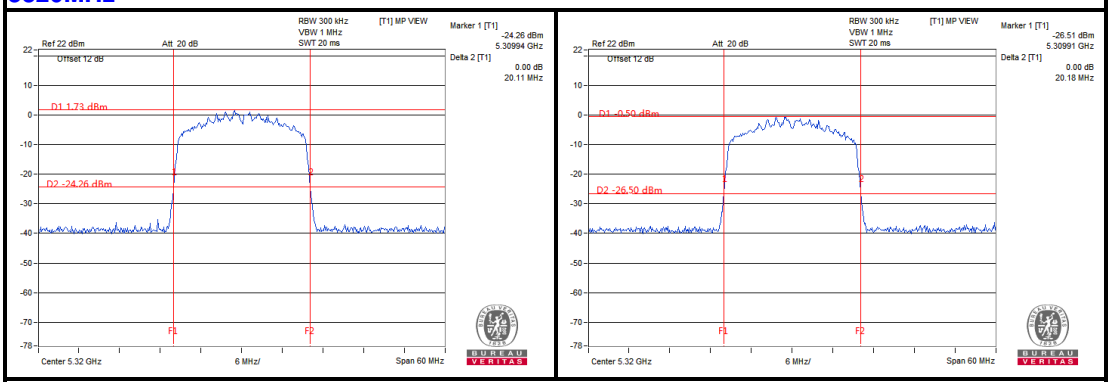
SPECTRUM PLOT	
CHAIN 0	CHAIN 1
5180MHz	
	
5200MHz	
	
5240MHz	
	
5260MHz	



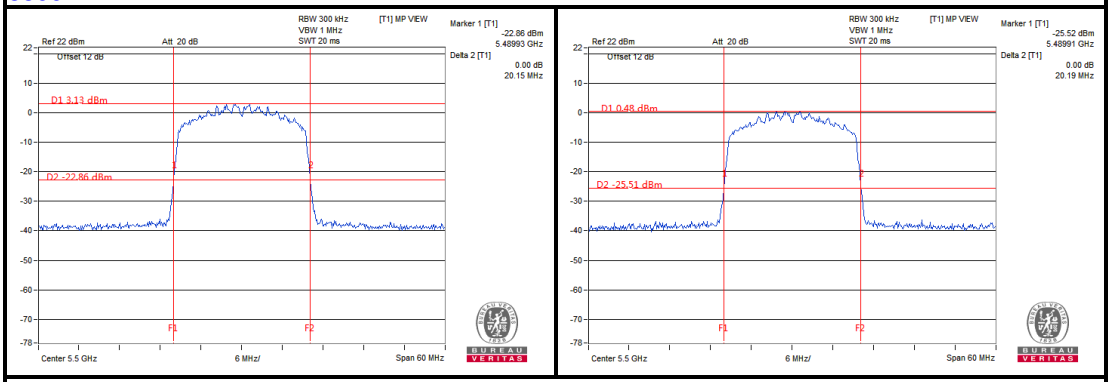
5300MHz



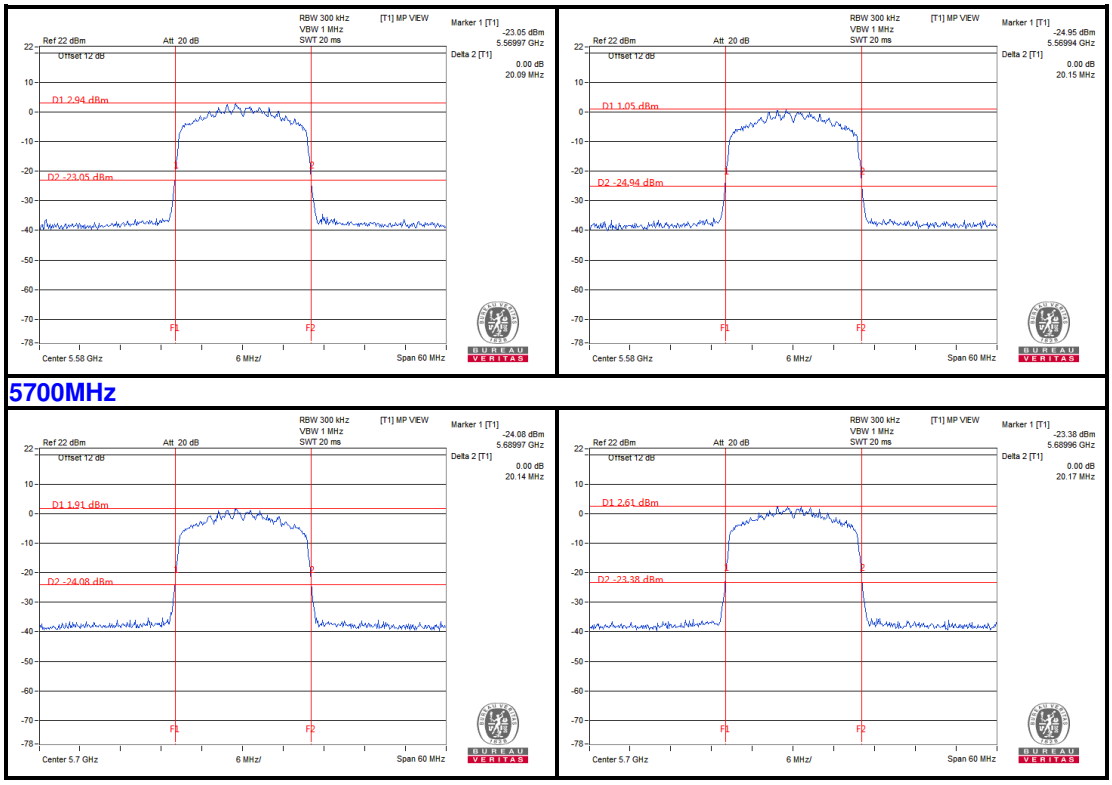
5320MHz



5500MHz



5580MHz


RBW 300 kHz
VBW 1 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-23.05 dBm
5.56997 GHz
Delta 2 [T1]
0.00 dB
20.09 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 2.94 dBm
D2 -23.05 dBm
Center 5.58 GHz
6 MHz/
Span 60 MHz
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-24.95 dBm
5.56994 GHz
Delta 2 [T1]
0.00 dB
20.15 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 1.05 dBm
D2 -24.94 dBm
Center 5.58 GHz
6 MHz/
Span 60 MHz

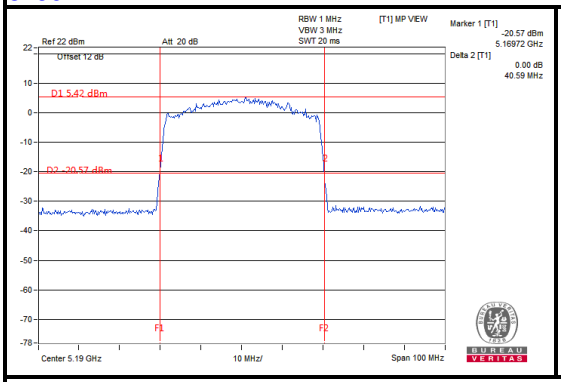
5700MHz

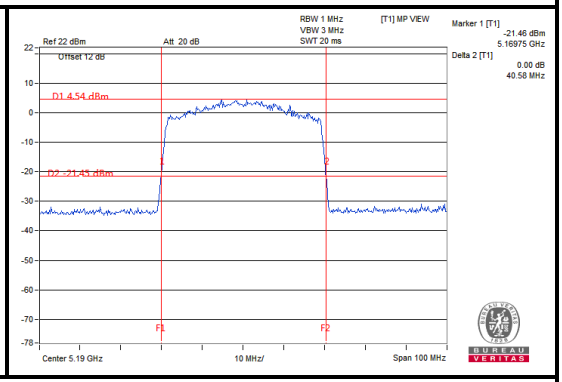
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-24.08 dBm
5.68997 GHz
Delta 2 [T1]
0.00 dB
20.14 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 1.91 dBm
D2 -24.08 dBm
Center 5.7 GHz
6 MHz/
Span 60 MHz
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-23.38 dBm
5.68996 GHz
Delta 2 [T1]
0.00 dB
20.17 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 2.61 dBm
D2 -23.38 dBm
Center 5.7 GHz
6 MHz/
Span 60 MHz

802.11ax 40MHz

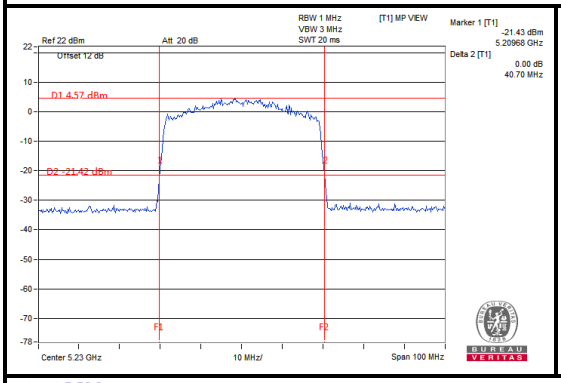
SPECTRUM PLOT	
CHAIN 0	CHAIN 1

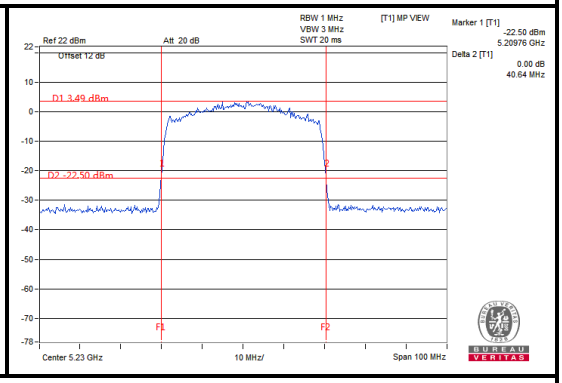
5190MHz



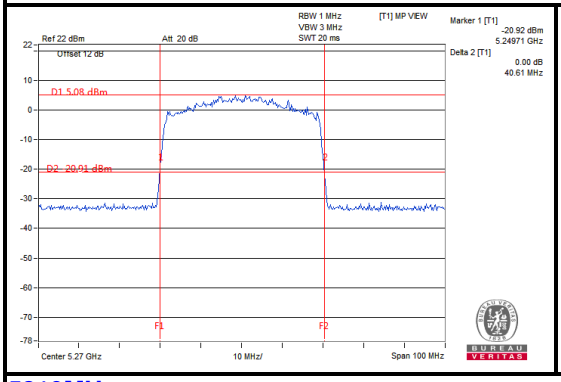


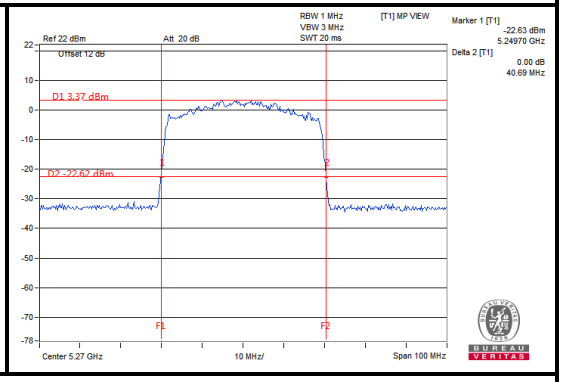
5230MHz



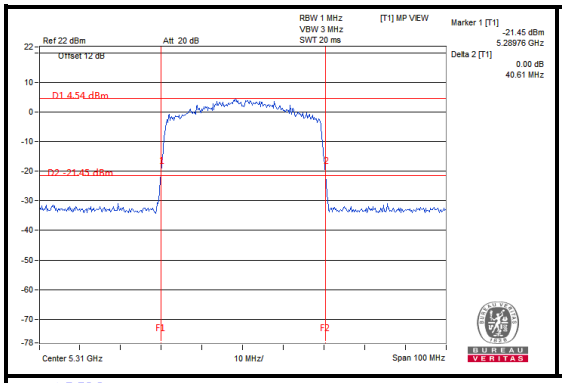


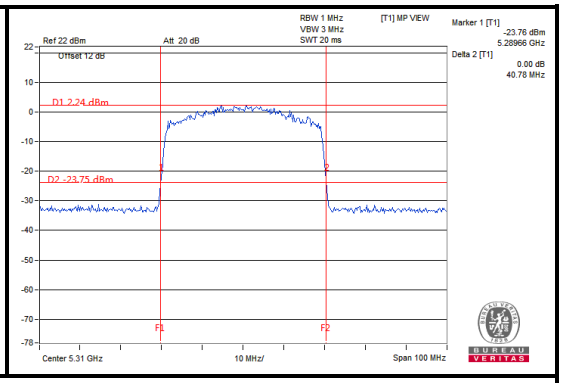
5270MHz



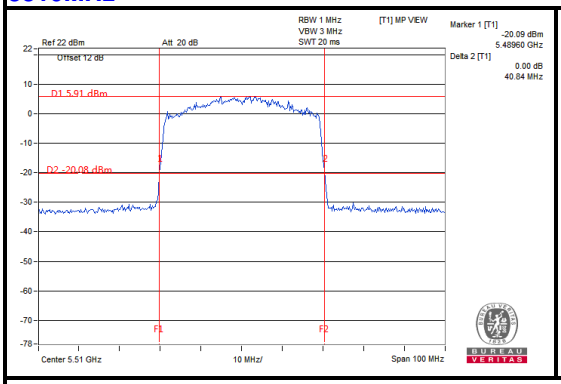


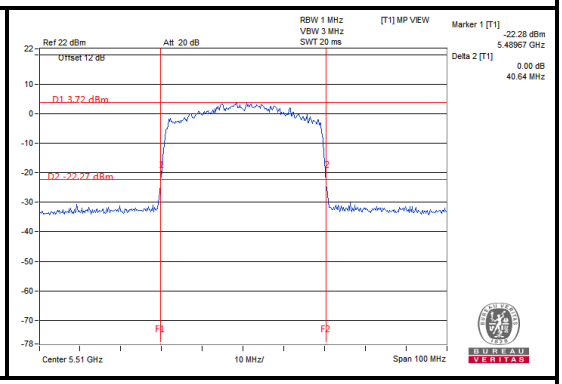
5310MHz



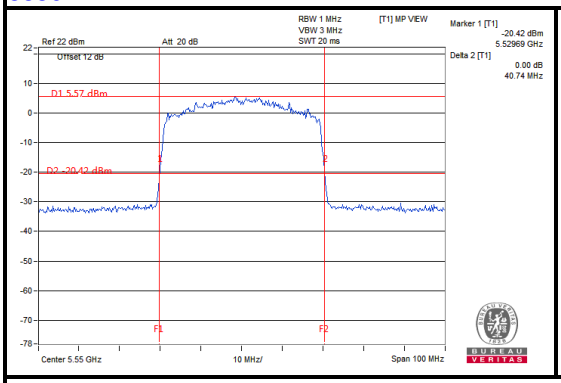


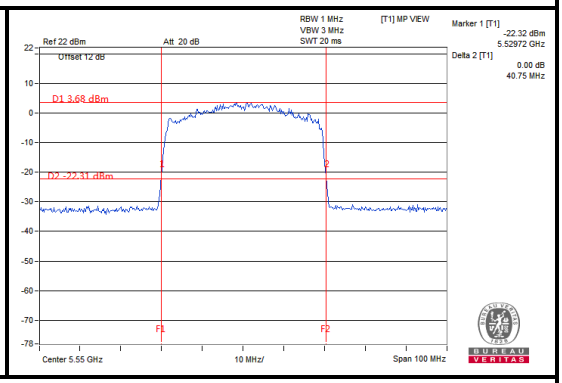
5510MHz



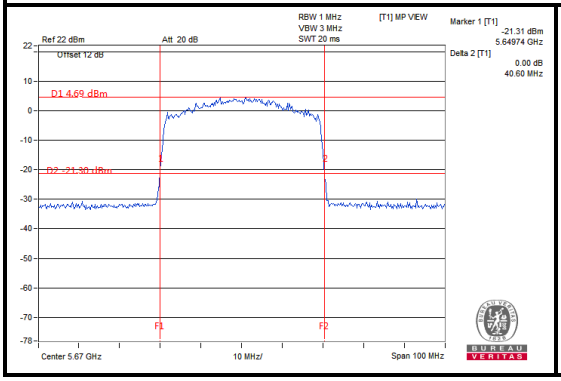


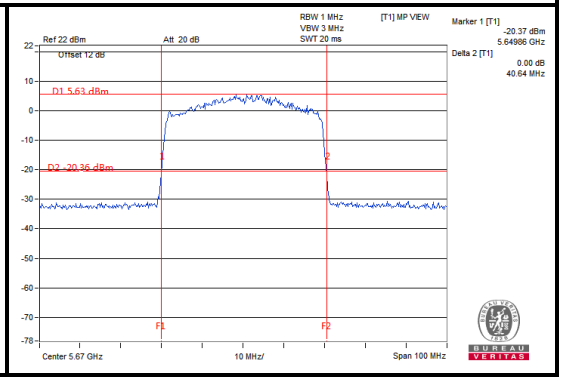
5550MHz



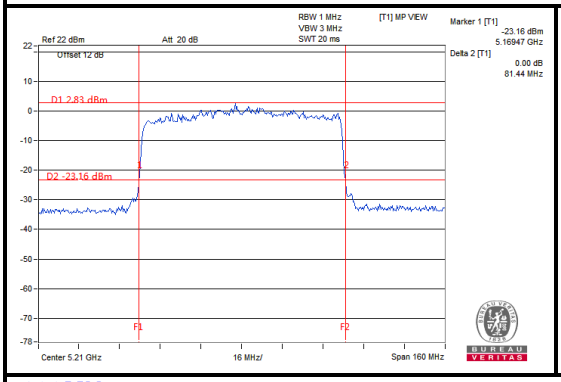
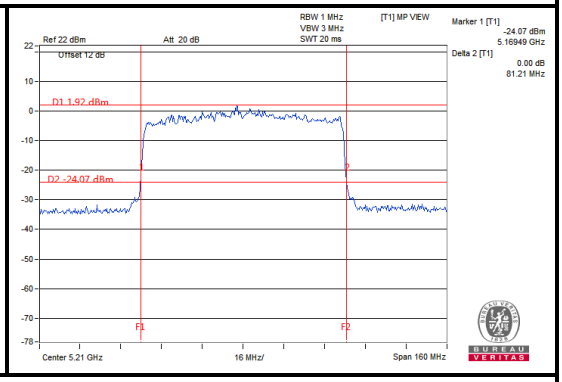
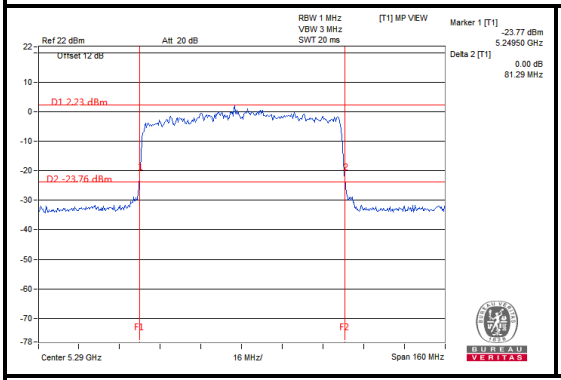
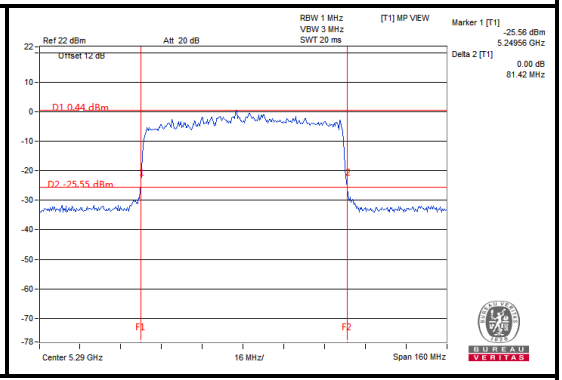


5670MHz





802.11ax (80MHz)

SPECTRUM PLOT	
CHAIN 0	CHAIN 1
5210MHz	
	
5290MHz	
	
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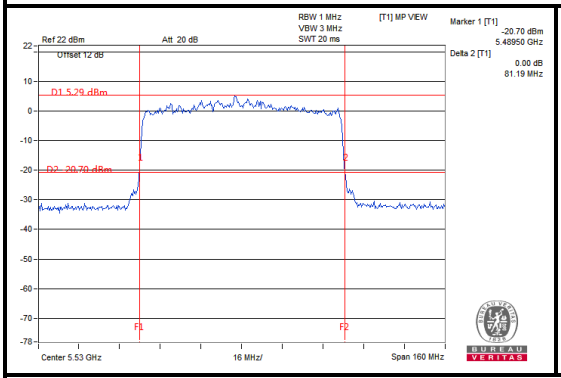
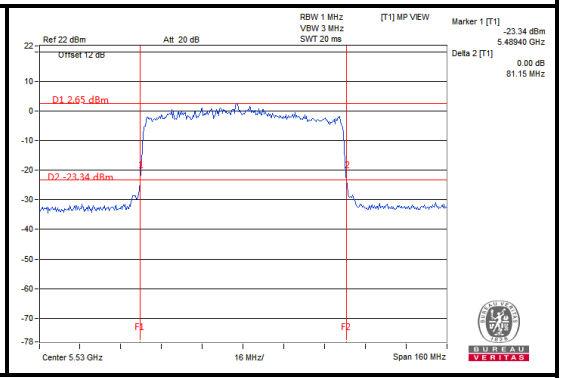
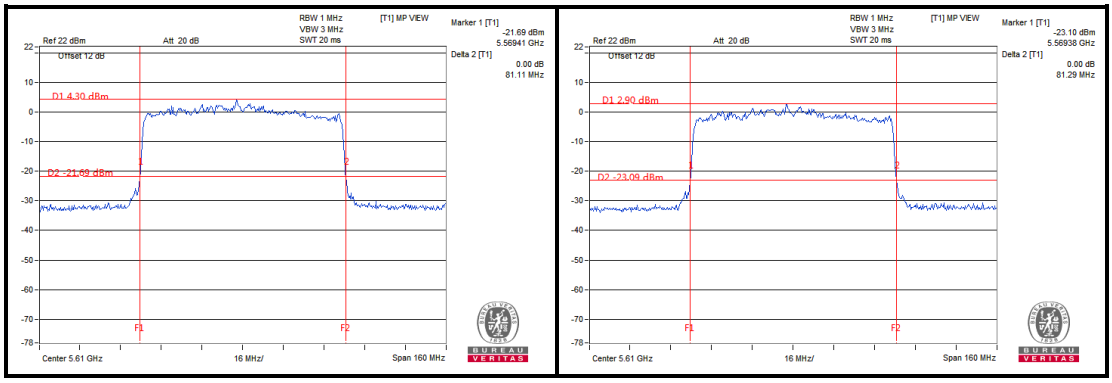
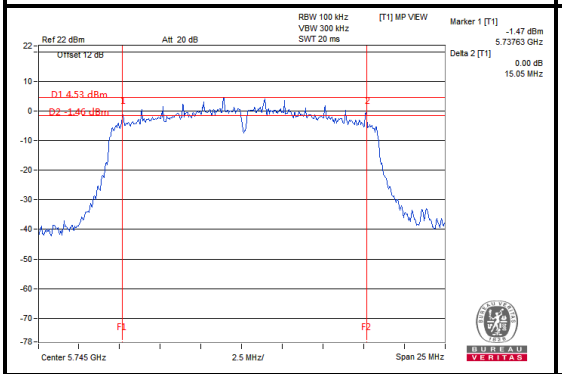
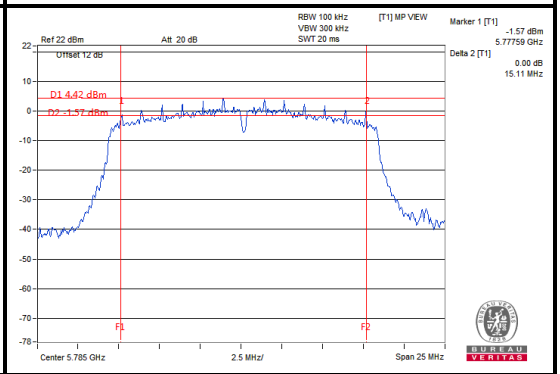
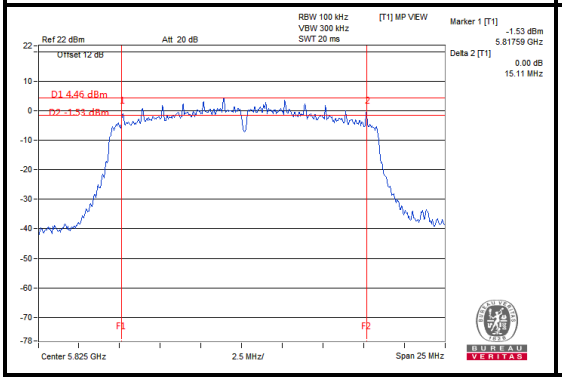
	
5610MHz	

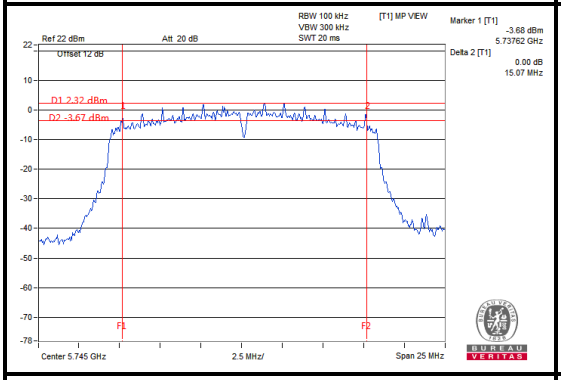
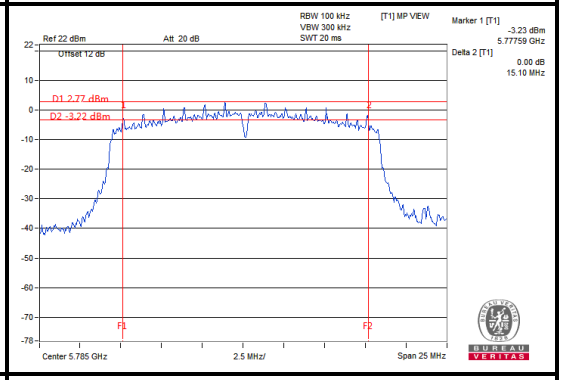
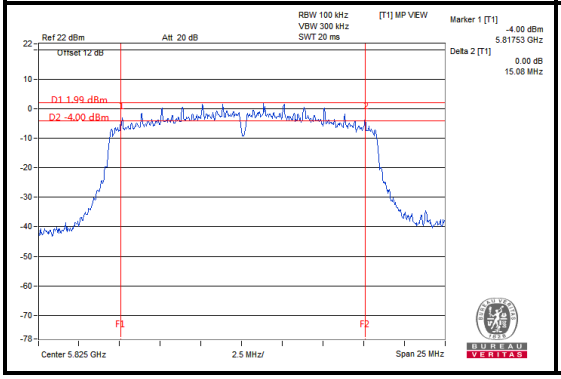

RBW 1 MHz
VBW 3 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-21.69 dBm
5.56941 GHz
Delta 2 [T1]
0.00 dB
81.11 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 4.30 dBm
D2 -21.69 dBm
F1
F2
Center 5.61 GHz
16 MHz/
Span 160 MHz
RBW 1 MHz
VBW 3 MHz
SWT 20 ms
[T1] MP VIEW
Marker 1 [T1]
-23.10 dBm
5.56938 GHz
Delta 2 [T1]
0.00 dB
81.29 MHz
Ref 22 dBm
Att 20 dB
Offset 12 dB
D1 2.90 dBm
D2 -23.09 dBm
F1
F2
Center 5.61 GHz
16 MHz/
Span 160 MHz

6dB BANDWIDTH For 5725-5850MHz

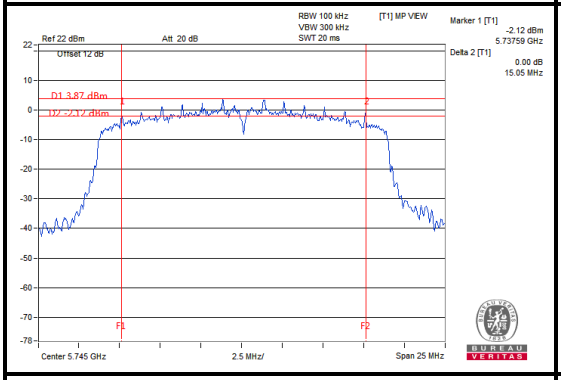
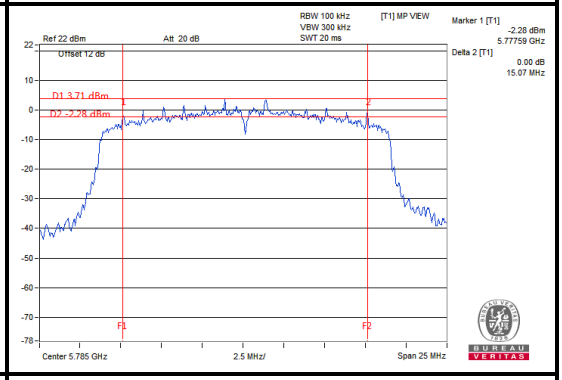
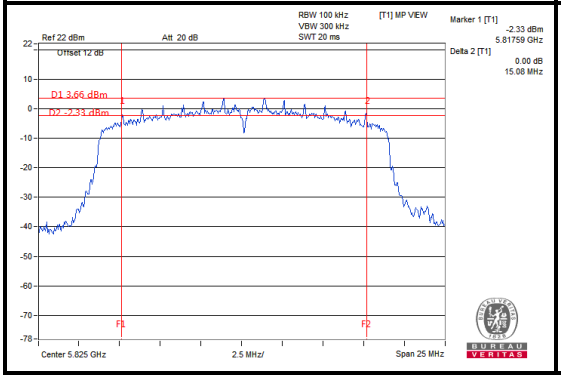
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

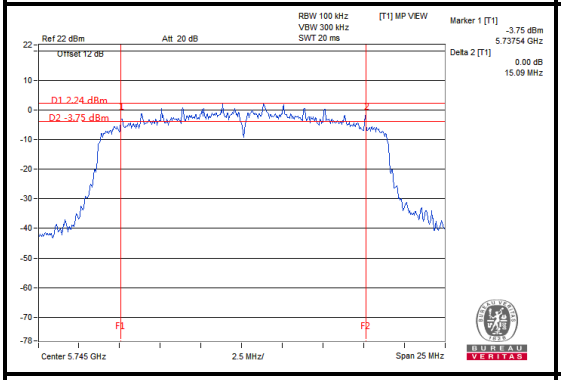
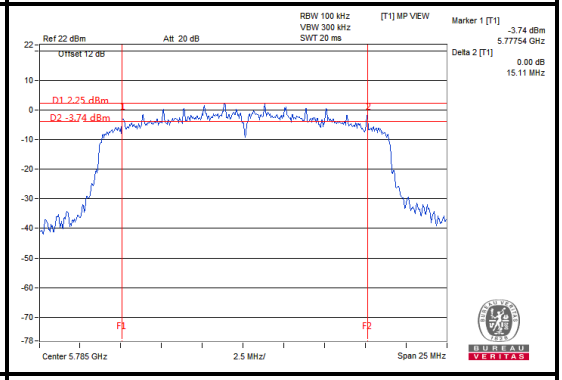
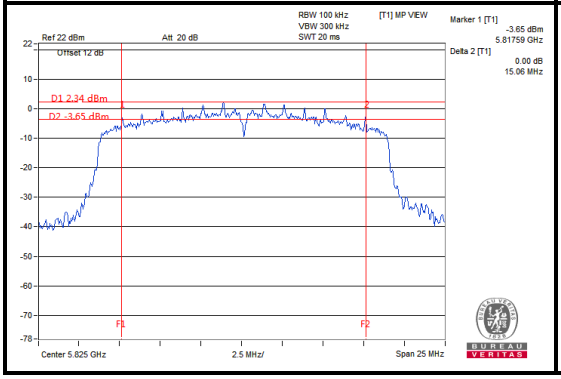
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

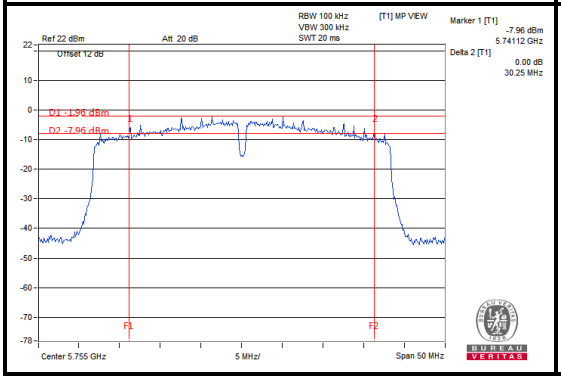
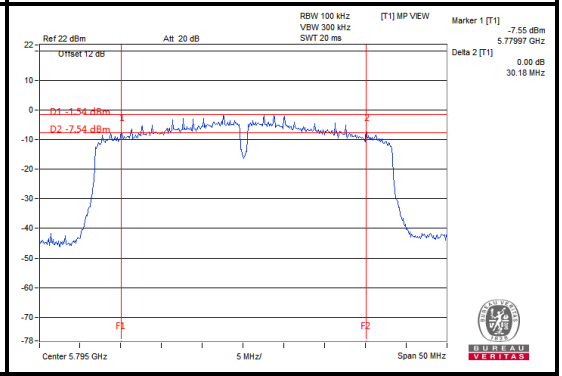
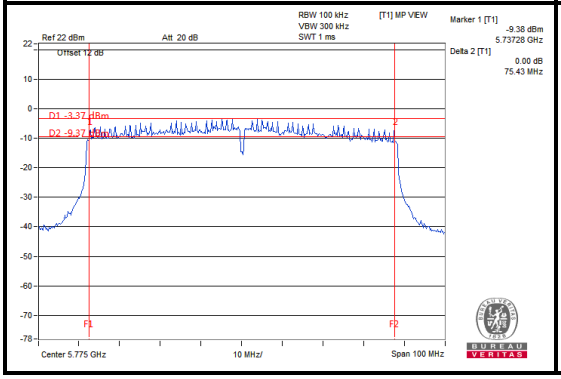
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	
	
	

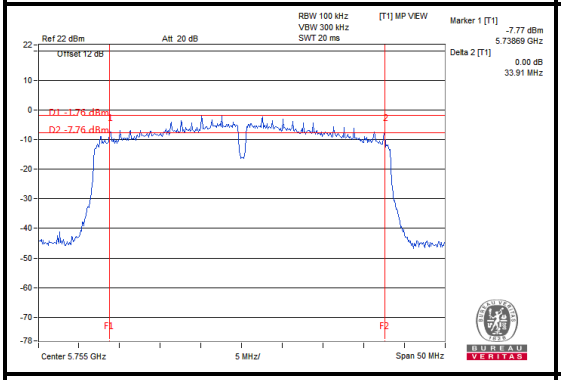
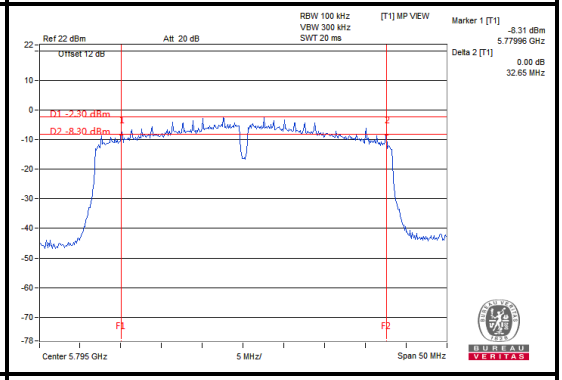
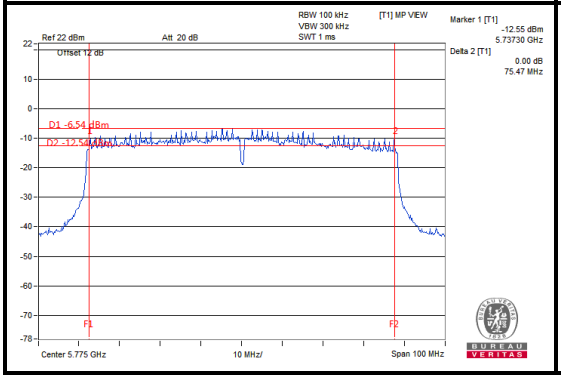
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	
	
	

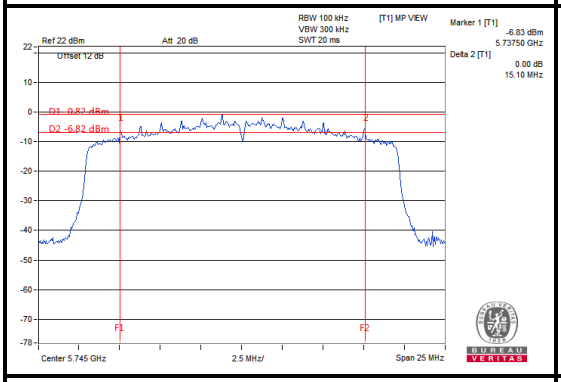
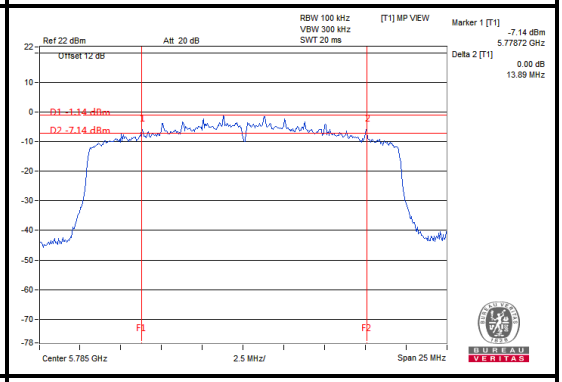
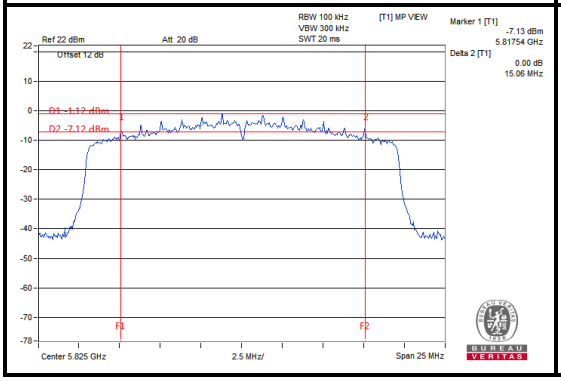
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11n 40MHz	
	
802.11ac 80MHz	
	

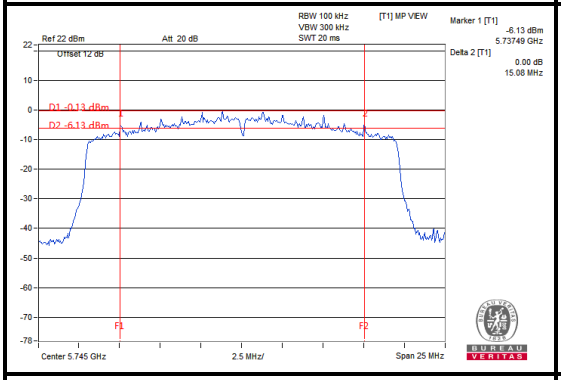
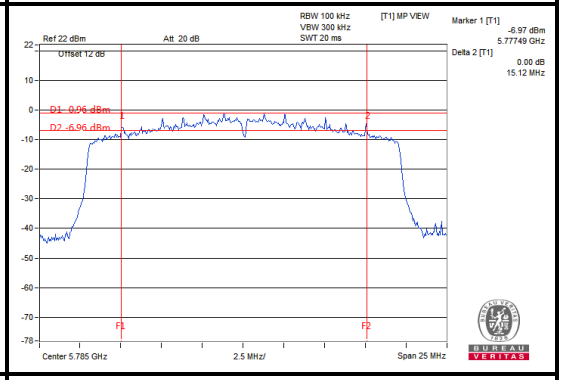
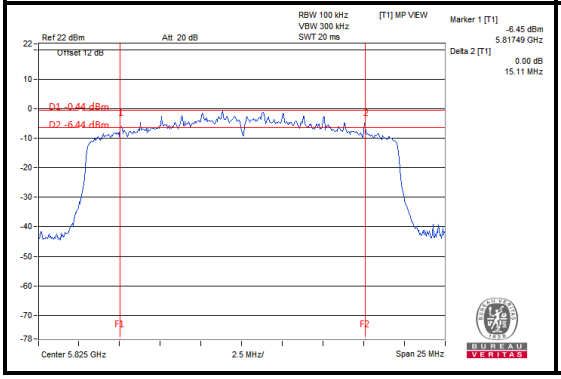
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 40MHz	
	
802.11ac 80MHz	
	

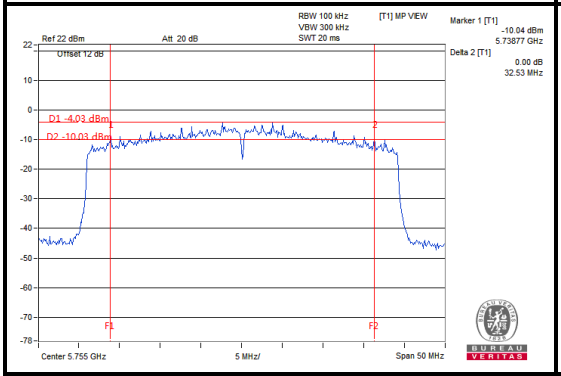
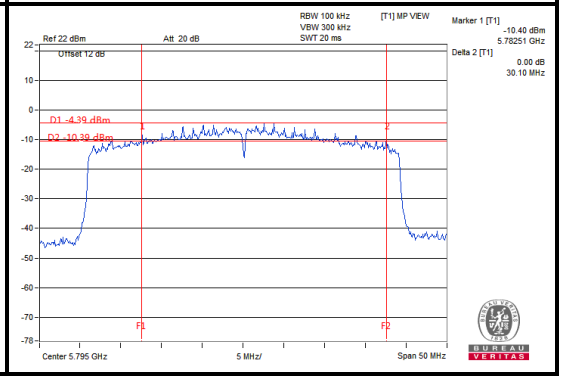
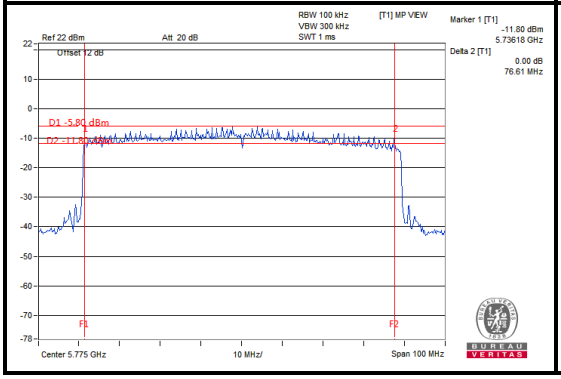
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11ax 20MHz	
	
	

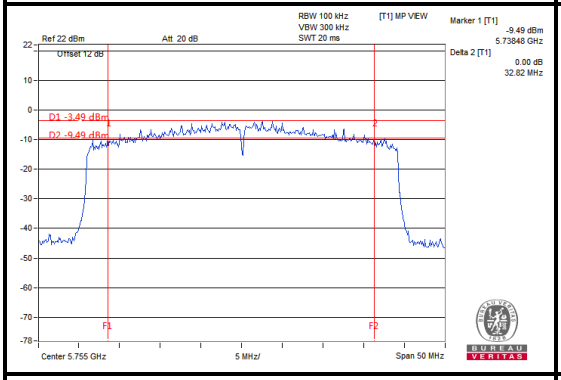
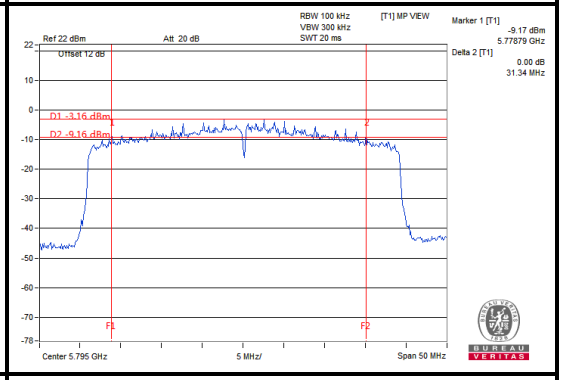
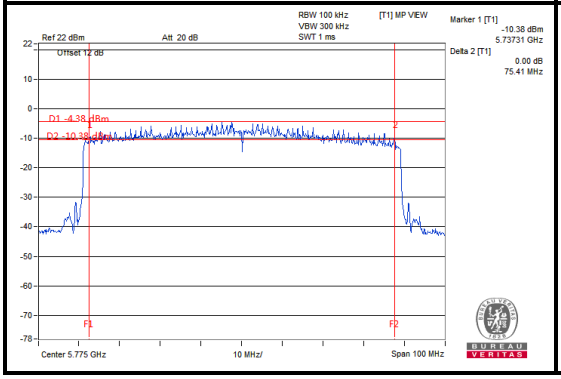
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11ax 20MHz	
	
	

Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11ax 40MHz	
	
802.11ax 80MHz	
	

Chain 1

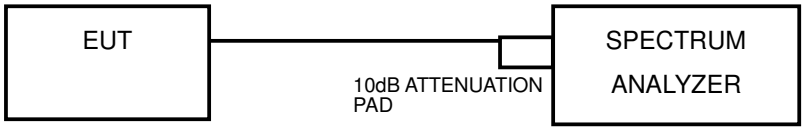
SPECTRUM PLOT OF WORST VALUE	
802.11ax 40MHz	
	
802.11ax 80MHz	
	

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 Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	1.49	-0.06	1.4093	0.9863	2.5217	4.02	11.00	PASS
40	5200	0.80	-0.06	1.2023	0.9863	2.3038	3.62	11.00	PASS
48	5240	-0.21	-1.05	0.9528	0.7852	1.8295	2.62	11.00	PASS
52	5260	0.20	-0.48	1.0471	0.8954	2.0447	3.11	11.00	PASS
60	5300	-0.74	-1.68	0.8433	0.6792	1.6026	2.05	11.00	PASS
64	5320	-1.19	-2.22	0.7603	0.5998	1.4317	1.56	11.00	PASS
100	5500	1.42	0.23	1.3868	1.0544	2.5697	4.10	11.00	PASS
116	5580	0.88	-0.48	1.2246	0.8954	2.2316	3.49	11.00	PASS
140	5700	1.97	0.72	1.5740	1.1803	2.8993	4.62	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.22dBi + 10log(2) = 5.23dBi＜6dBi , so the limit is no need to be reduced.

802.11n (20MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	-1.15	-1.74	0.7674	0.6699	1.5422	1.88	11.00	PASS
40	5200	-1.48	-2.13	0.7112	0.6124	1.4202	1.52	11.00	PASS
48	5240	-2.57	-3.37	0.5534	0.4603	1.0877	0.37	11.00	PASS
52	5260	-2.05	-2.87	0.6237	0.5164	1.2233	0.88	11.00	PASS
60	5300	-3.02	-4.00	0.4989	0.3981	0.9624	-0.17	11.00	PASS
64	5320	-3.33	-4.50	0.4645	0.3548	0.8791	-0.56	11.00	PASS
100	5500	-1.41	-1.87	0.7228	0.6501	1.4731	1.68	11.00	PASS
116	5580	-1.86	-2.30	0.6516	0.5888	1.3309	1.24	11.00	PASS
140	5700	0.06	-0.60	1.0139	0.8710	2.0224	3.06	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.22dBi + 10log(2) = 5.23dBi＜6dBi, so the limit is no need to be reduced.

802.11n (40MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	-4.98	-5.29	0.3177	0.2958	0.6478	-1.89	11.00	PASS
46	5230	-5.61	-6.22	0.2748	0.2388	0.5423	-2.66	11.00	PASS
54	5270	-6.10	-6.78	0.2455	0.2099	0.4809	-3.18	11.00	PASS
62	5310	-6.91	-7.66	0.2037	0.1714	0.3961	-4.02	11.00	PASS
102	5510	-5.38	-6.12	0.2897	0.2443	0.5639	-2.49	11.00	PASS
110	5550	-5.41	-6.38	0.2877	0.2301	0.5468	-2.62	11.00	PASS
134	5670	-4.34	-4.83	0.3681	0.3289	0.7360	-1.33	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.22dBi + 10log(2) = 5.23dBi＜6dBi , so the limit is no need to be reduced.

802.11ac (80MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	-10.74	-11.04	0.0843	0.0787	0.1797	-7.45	11.00	PASS
58	5290	-11.56	-12.18	0.0698	0.0605	0.1437	-8.43	11.00	PASS
106	5530	-9.94	-10.73	0.1014	0.0845	0.2050	-6.88	11.00	PASS
122	5610	-9.96	-10.88	0.1009	0.0817	0.2013	-6.96	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain =2.22dBi + 10log(2) = 5.23dBi＜6dBi, so the limit is no need to be reduced.

802.11ax (20MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
36	5180	-3.98	-4.46	0.3999	0.3581	0.8133	-0.90	11.00	PASS
40	5200	-4.30	-5.44	0.3715	0.2858	0.7053	-1.52	11.00	PASS
48	5240	-5.24	-6.37	0.2992	0.2307	0.5686	-2.45	11.00	PASS
52	5260	-4.63	-6.20	0.3443	0.2399	0.6268	-2.03	11.00	PASS
60	5300	-5.24	-7.07	0.2992	0.1963	0.5317	-2.74	11.00	PASS
64	5320	-5.56	-7.67	0.2780	0.1710	0.4818	-3.17	11.00	PASS
100	5500	-3.77	-6.08	0.4198	0.2466	0.7150	-1.46	11.00	PASS
116	5580	-4.65	-6.38	0.3428	0.2301	0.6147	-2.11	11.00	PASS
140	5700	-5.58	-4.83	0.2767	0.3289	0.6498	-1.87	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.22dBi + 10log(2) = 5.23dBi＜6dBi , so the limit is no need to be reduced.

802.11ax (40MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
38	5190	-6.61	-7.53	0.2183	0.1766	0.4170	-3.80	11.00	PASS
46	5230	-7.31	-8.43	0.1858	0.1435	0.3477	-4.59	11.00	PASS
54	5270	-7.23	-8.63	0.1892	0.1371	0.3446	-4.63	11.00	PASS
62	5310	-7.23	-9.14	0.1892	0.1219	0.3285	-4.83	11.00	PASS
102	5510	-5.80	-6.16	0.2630	0.2421	0.5334	-2.73	11.00	PASS
110	5550	-6.37	-6.39	0.2307	0.2296	0.4861	-3.13	11.00	PASS
134	5670	-7.16	-6.79	0.1923	0.2094	0.4242	-3.72	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.22dBi + 10log(2) = 5.23dBi＜6dBi , so the limit is no need to be reduced.

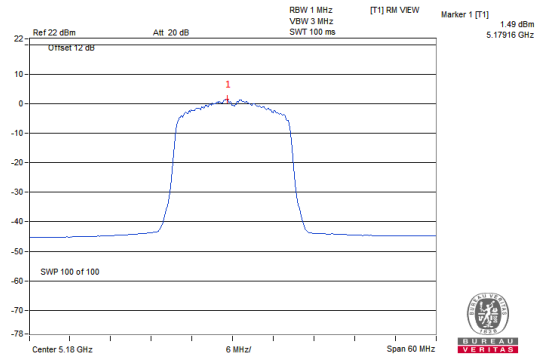
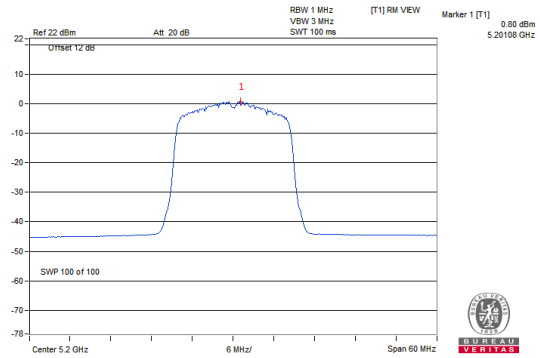
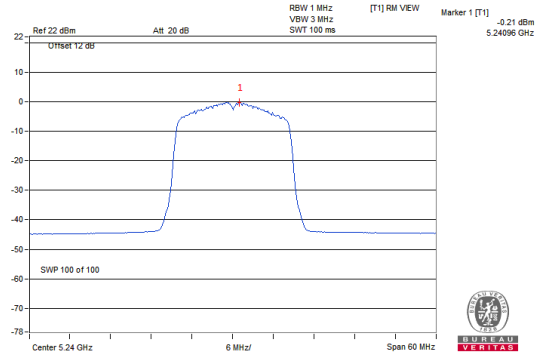
802.11ax (80MHz)

Channel Number	Frequency (MHz)	RF Power Level in 1MHz BW (dBm)		RF Power Level in 1MHz BW (mW)		Total power density		MAX. Limit (dBm)	PASS / FAIL
		Chain 0	Chain 1	Chain 0	Chain 1	mW	dBm		
42	5210	-11.30	-12.16	0.0741	0.0608	0.1501	-8.24	11.00	PASS
58	5290	-11.91	-13.50	0.0644	0.0447	0.1214	-9.16	11.00	PASS
106	5530	-8.98	-11.24	0.1265	0.0752	0.2244	-6.49	11.00	PASS
122	5610	-10.28	-11.48	0.0938	0.0711	0.1834	-7.37	11.00	PASS

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

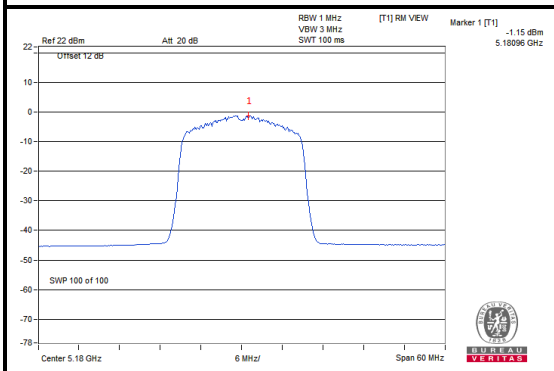
2.Directional gain = 2.22dBi + 10log(2) = 5.23dBi＜6dBi, so the limit is no need to be reduced.

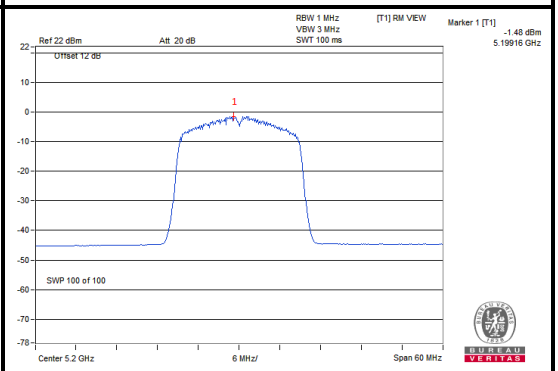
PSD Test Plot
BAND 1
5150-5250MHz
Chain 0

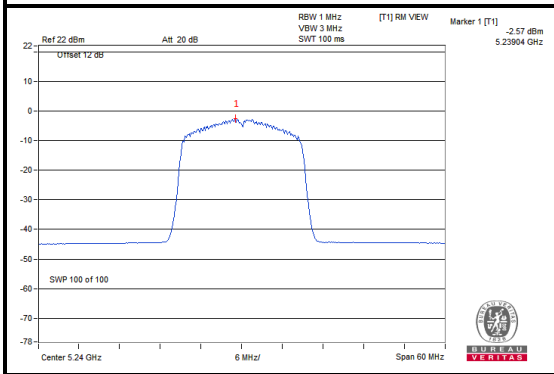
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

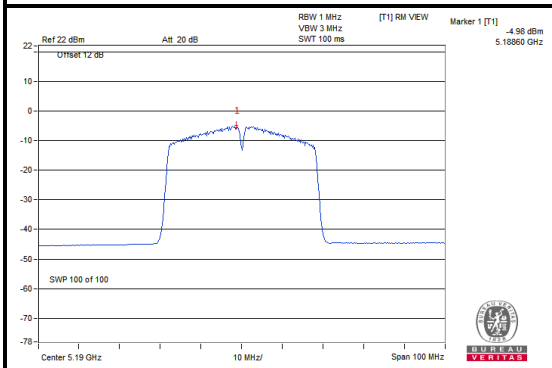


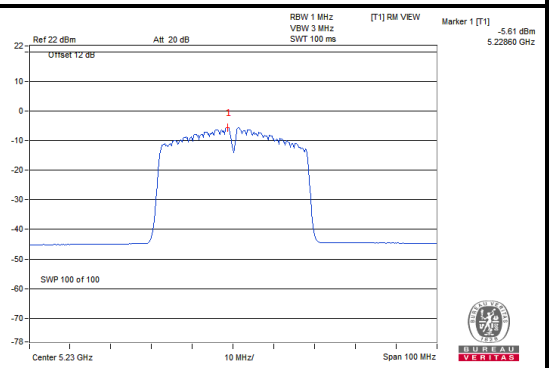




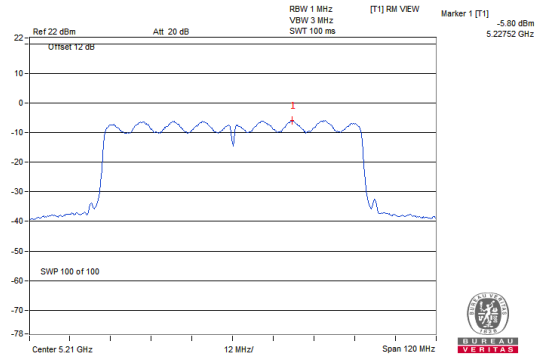
SPECTRUM PLOT OF WORST VALUE

802.11n 40MHz



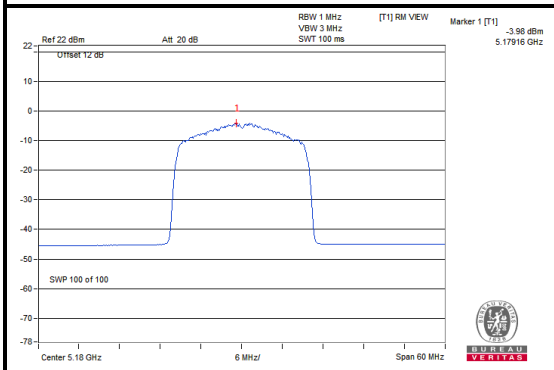


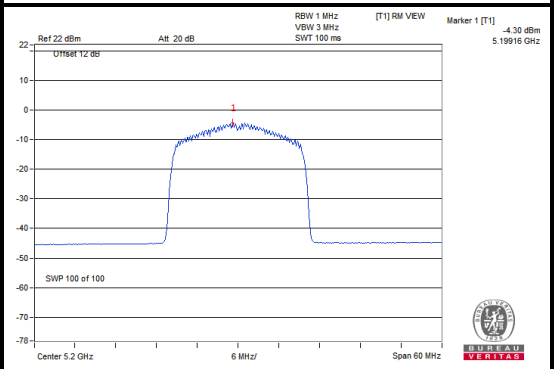
802.11ac 80MHz

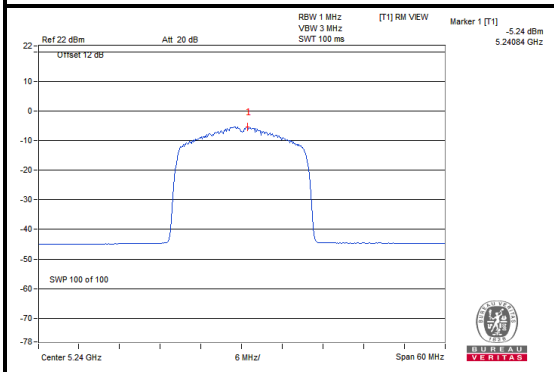


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

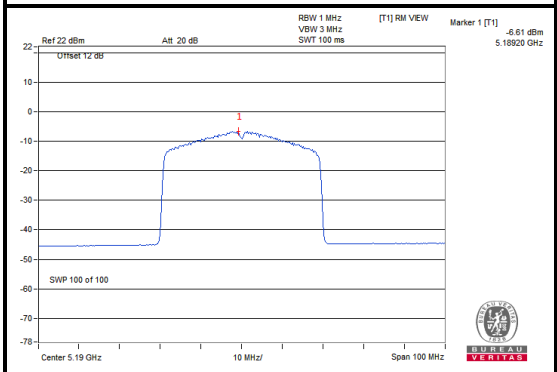


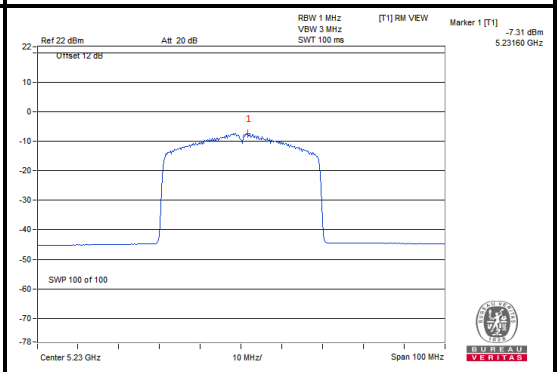




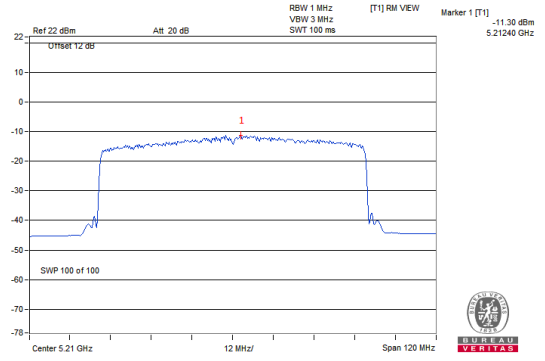
SPECTRUM PLOT OF WORST VALUE

802.11ax 40MHz

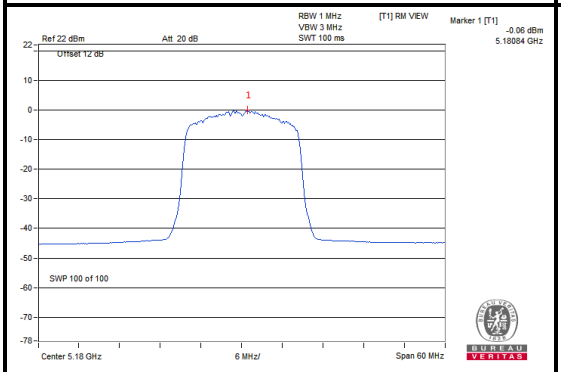
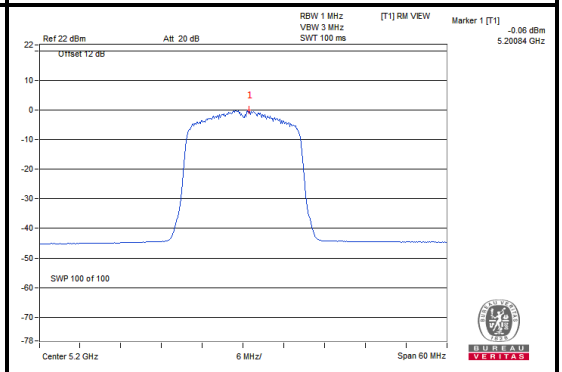
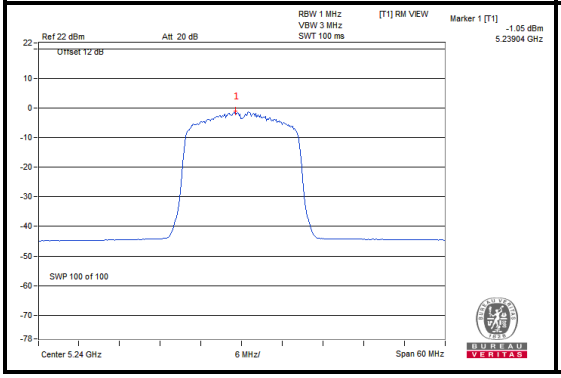




802.11ax 80MHz

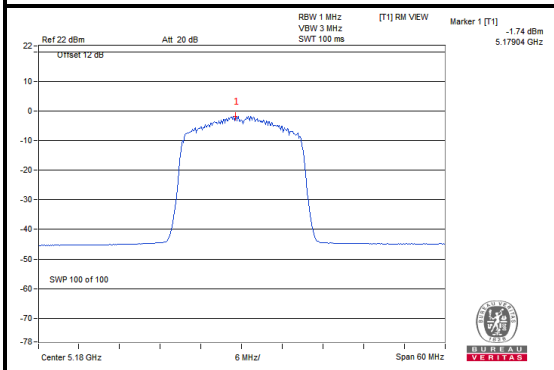


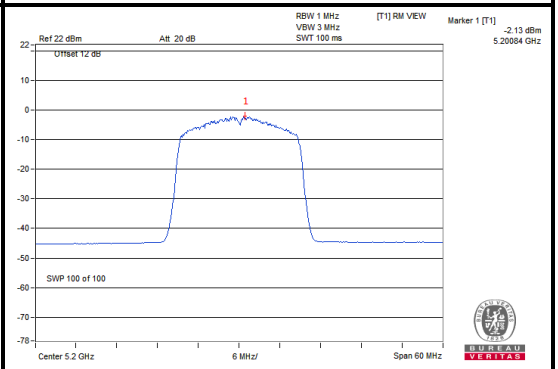
Chain 1

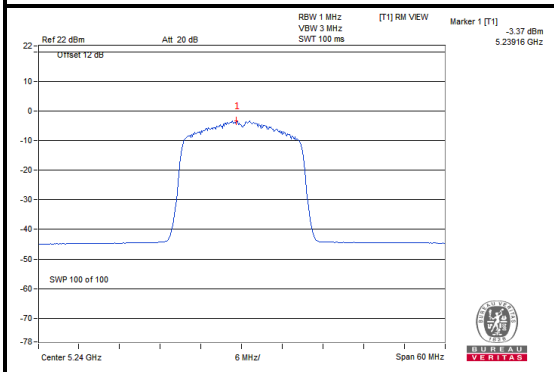
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

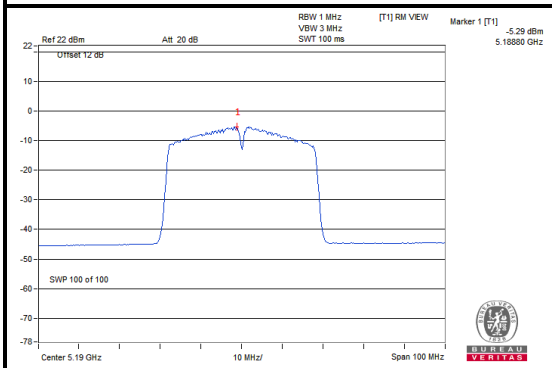


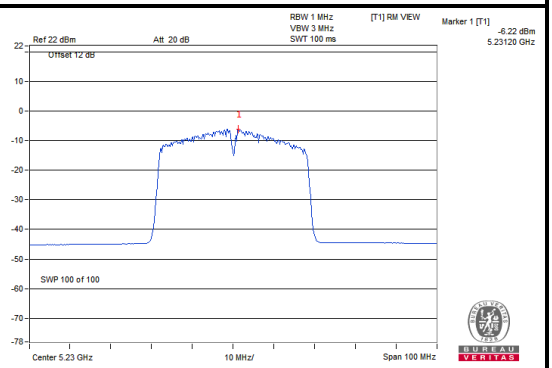




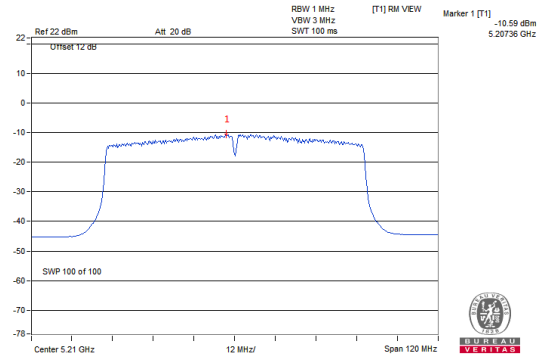
SPECTRUM PLOT OF WORST VALUE

802.11n 40MHz



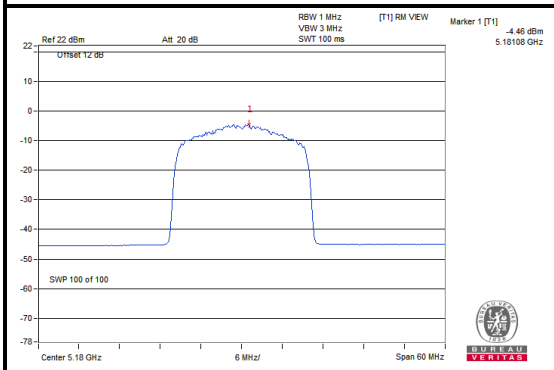


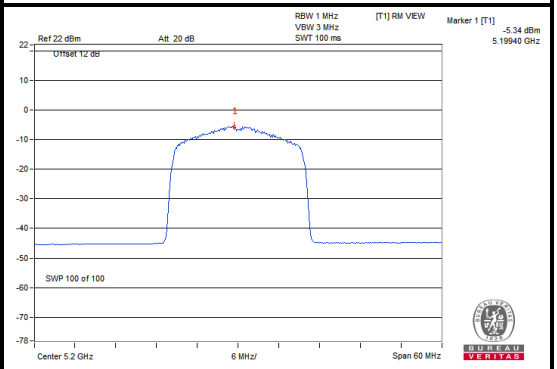
802.11ac 80MHz

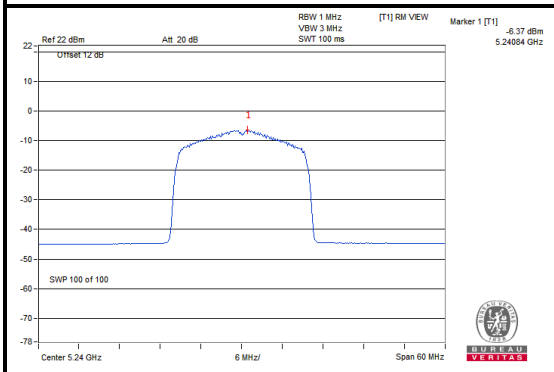


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

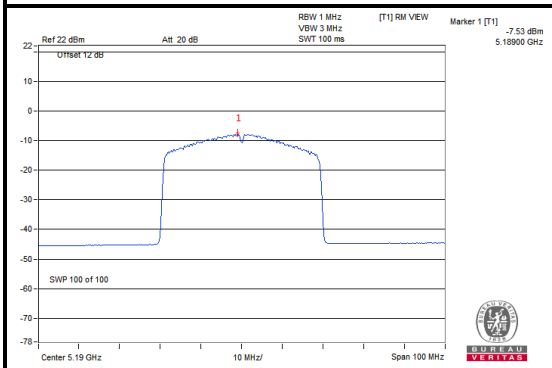


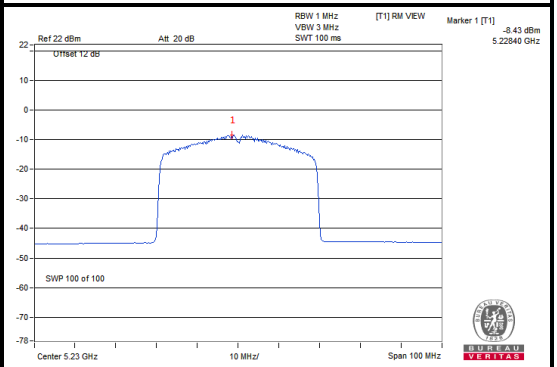




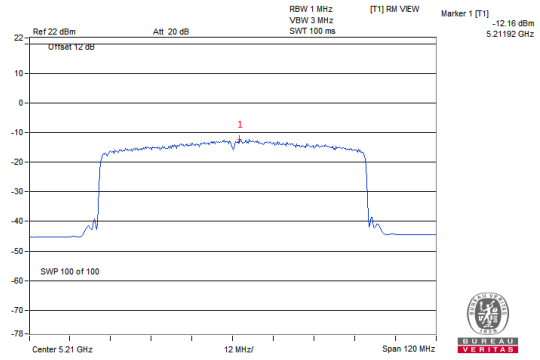
SPECTRUM PLOT OF WORST VALUE

802.11ax 40MHz

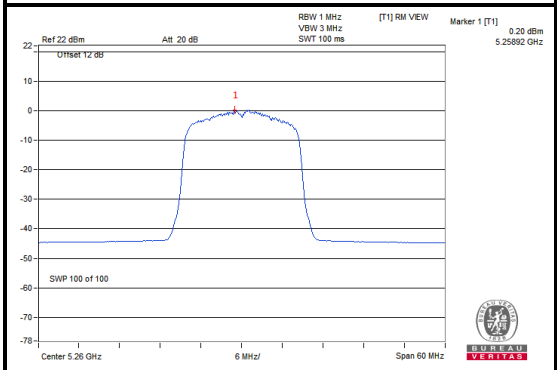
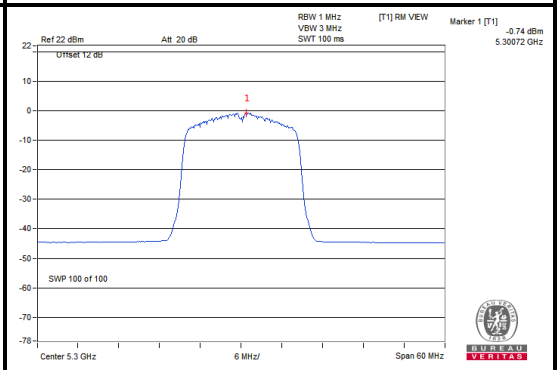
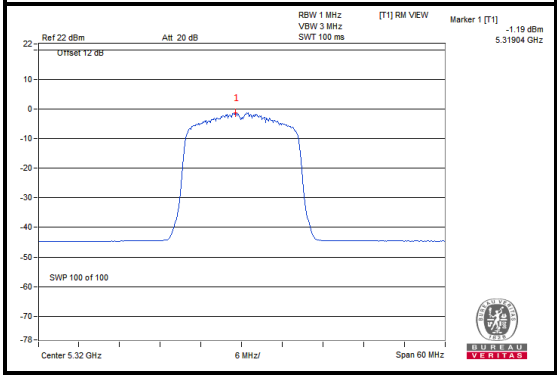




802.11ax 80MHz

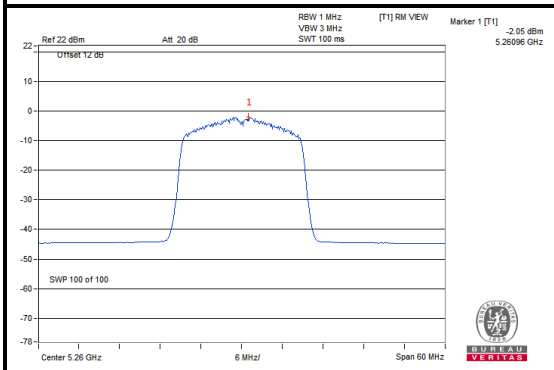


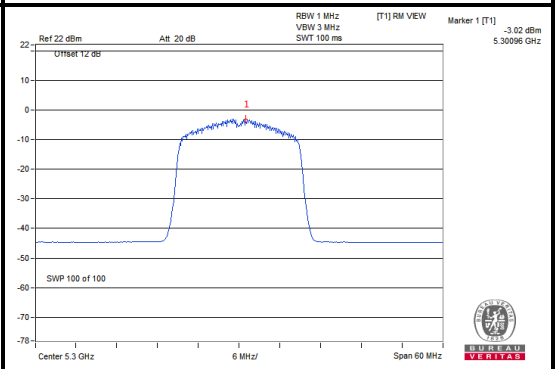
BAND 2
5250-5350MHz
Chain 0

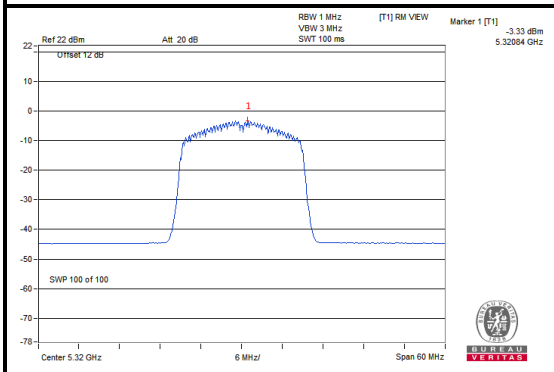
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

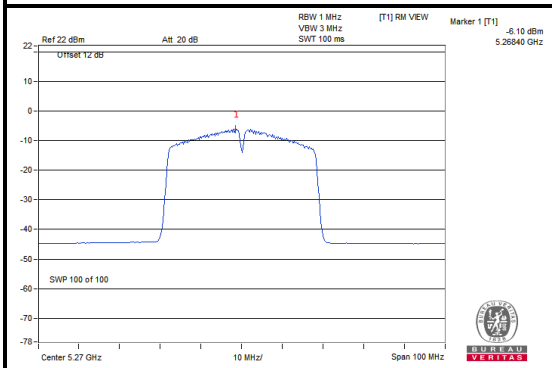


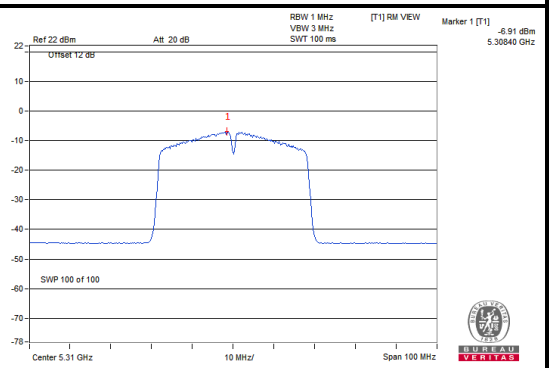




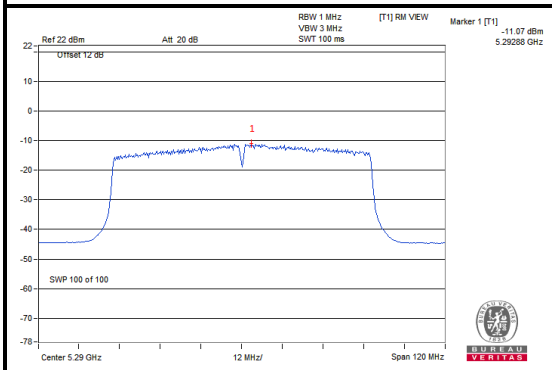
SPECTRUM PLOT OF WORST VALUE

802.11n 40MHz



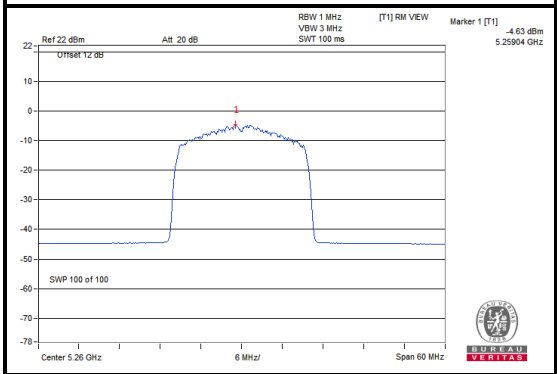


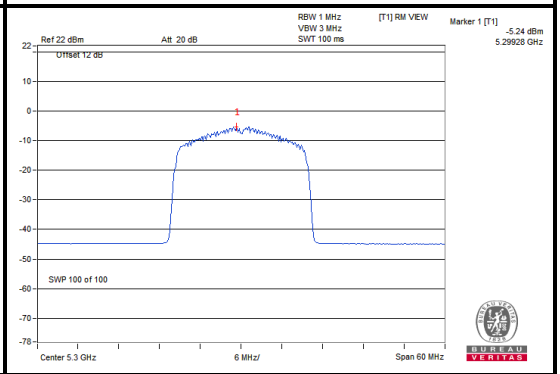
802.11ac 80MHz

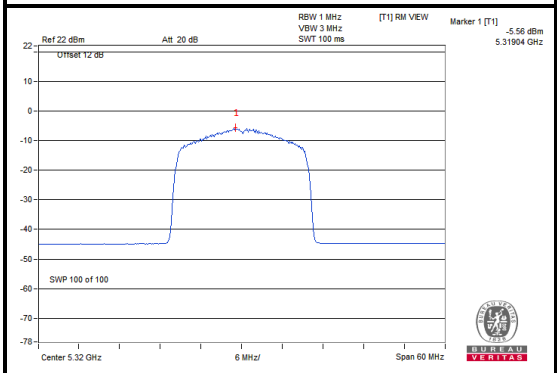


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

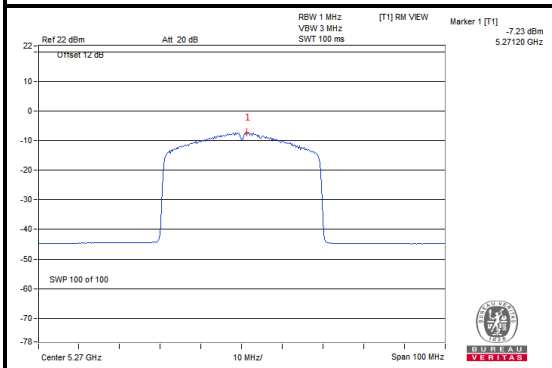


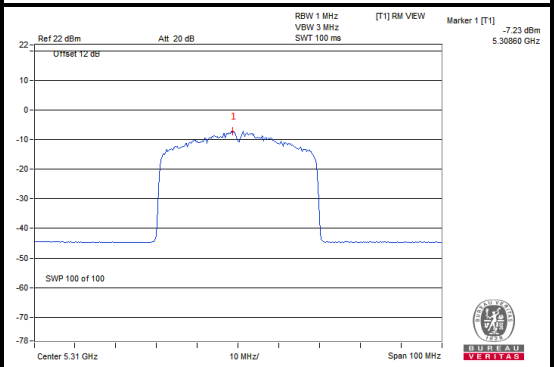




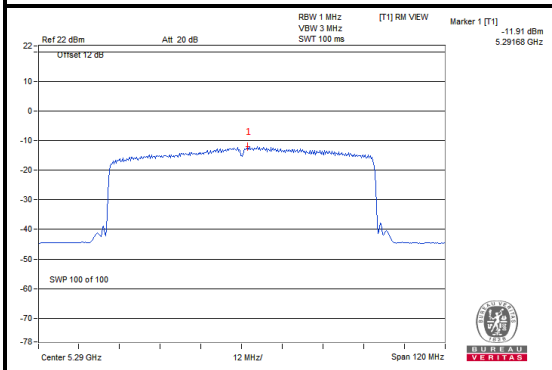
SPECTRUM PLOT OF WORST VALUE

802.11ax 40MHz

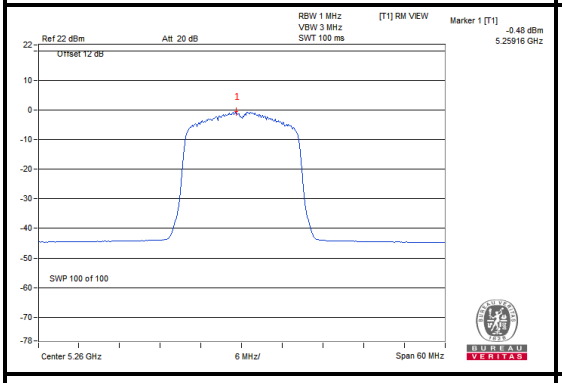
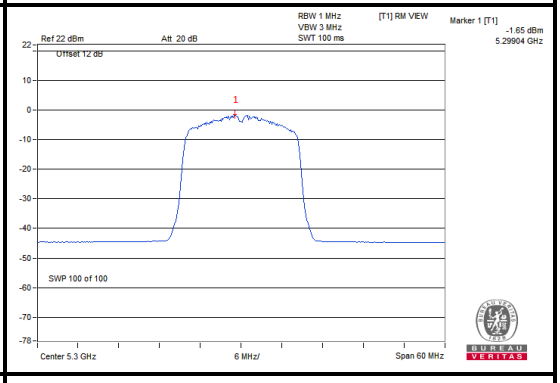
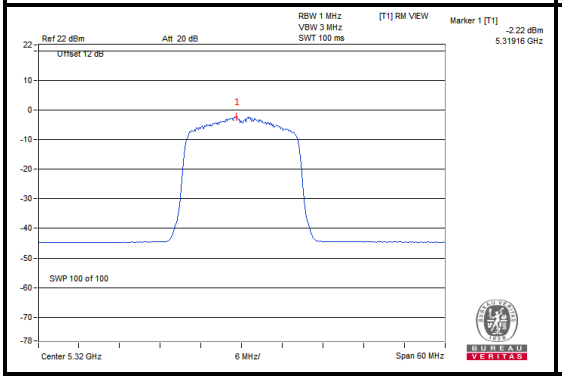




802.11ax 80MHz

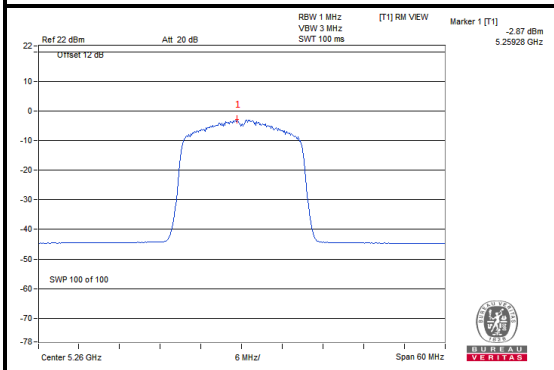


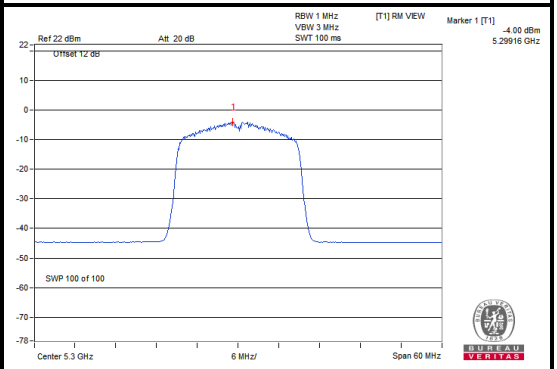
Chain 1

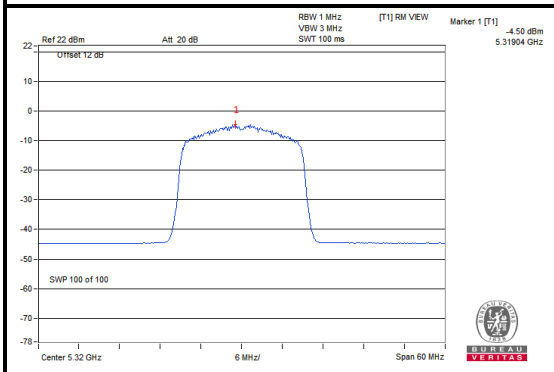
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

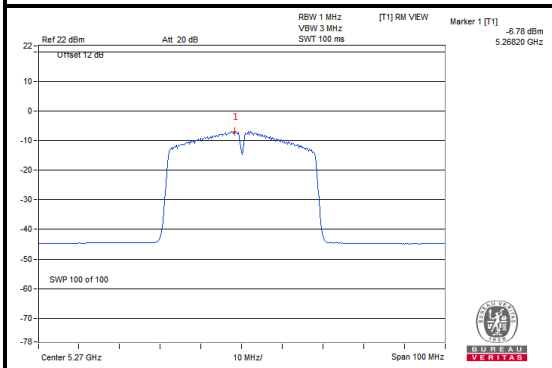
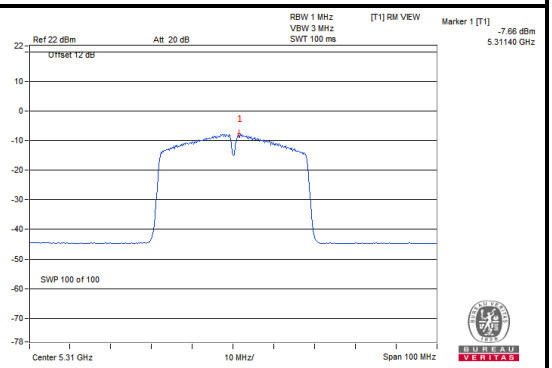
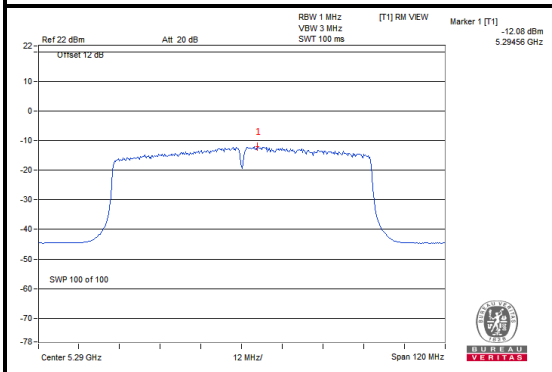
SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz



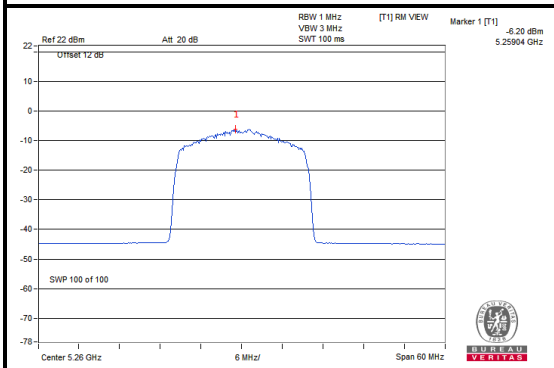


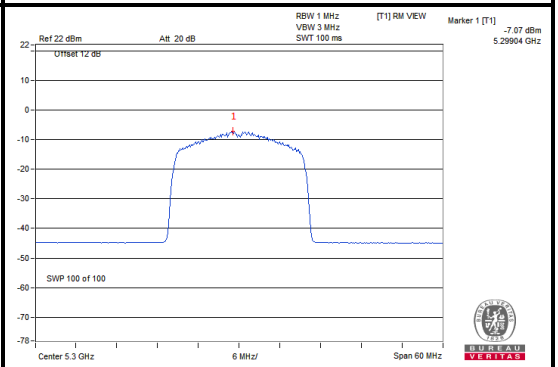


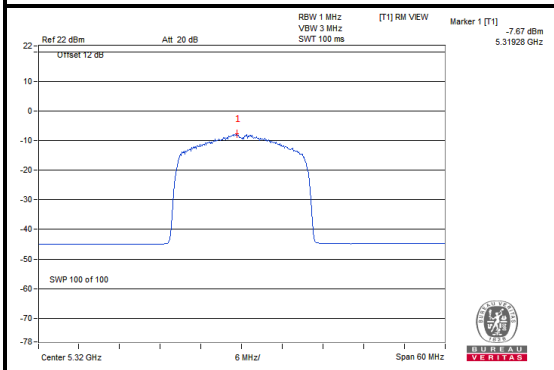
SPECTRUM PLOT OF WORST VALUE	
802.11n 40MHz	
	
802.11ac 80MHz	
	

SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

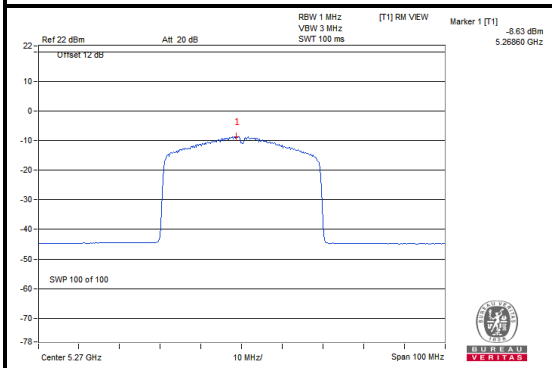


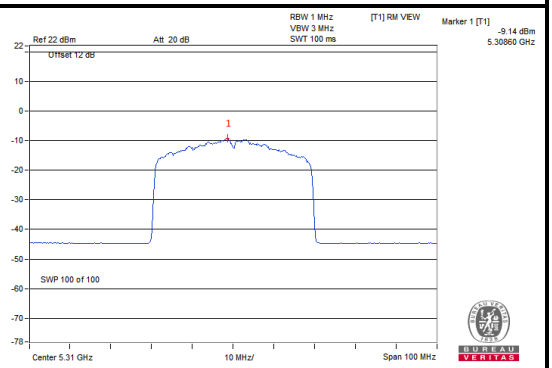




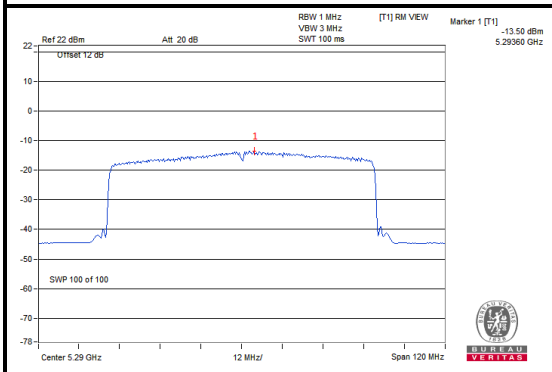
SPECTRUM PLOT OF WORST VALUE

802.11ax 40MHz

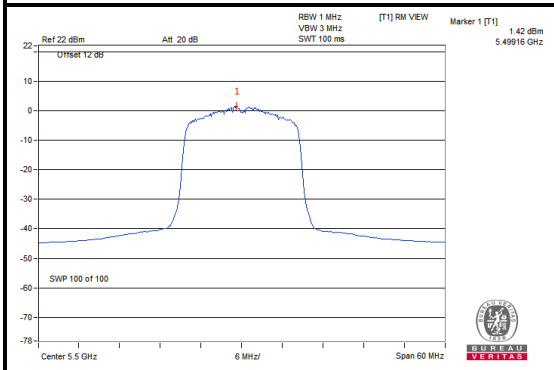
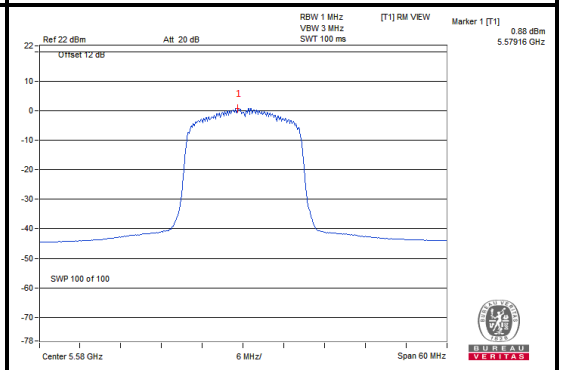
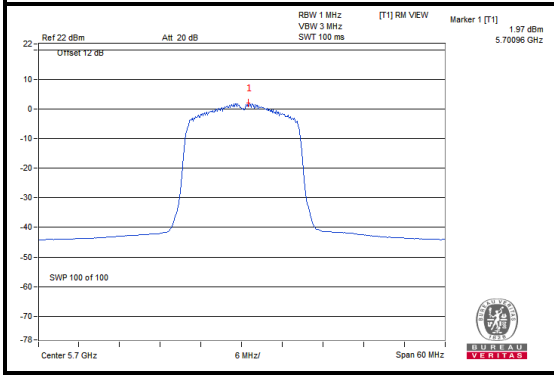




802.11ax 80MHz

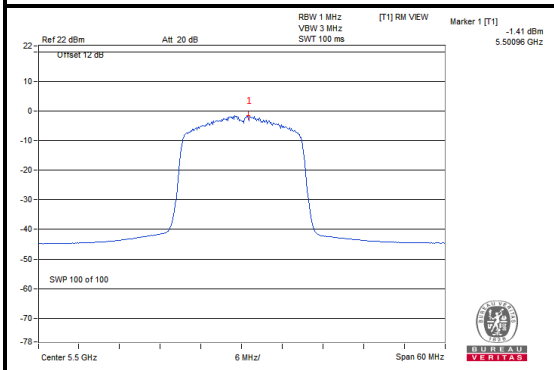


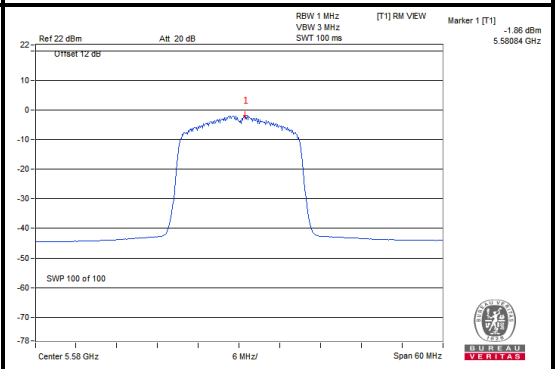
BAND 3
5470-5725MHz
Chain 0

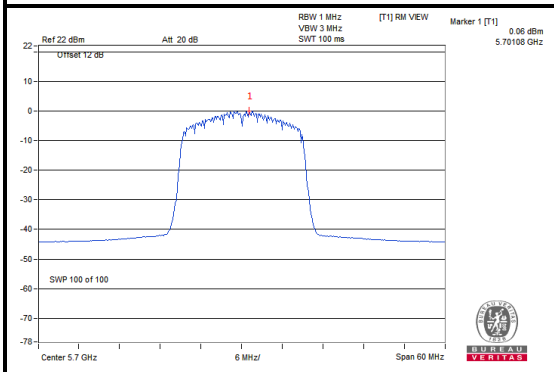
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

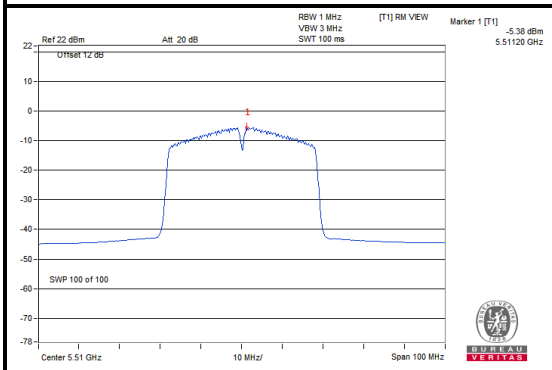


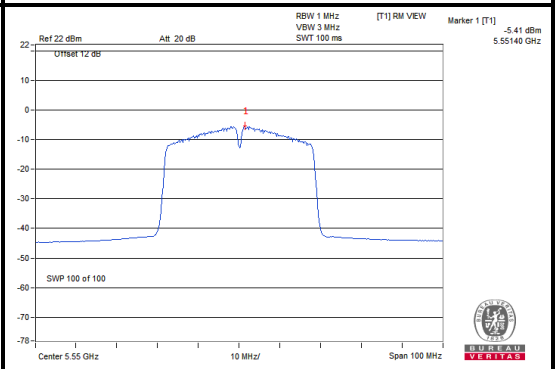


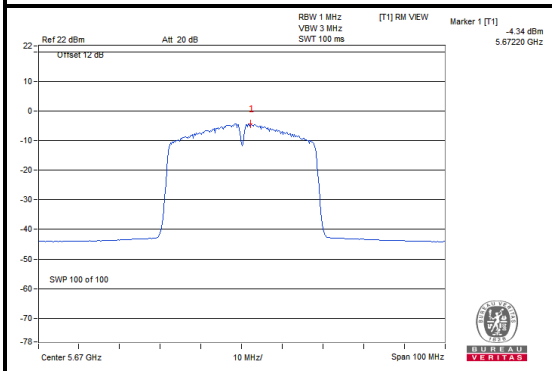


SPECTRUM PLOT OF WORST VALUE

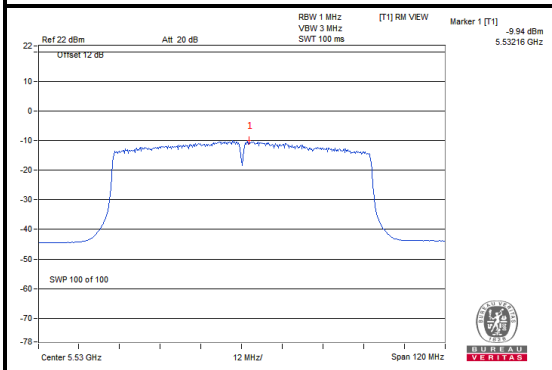
802.11n 40MHz

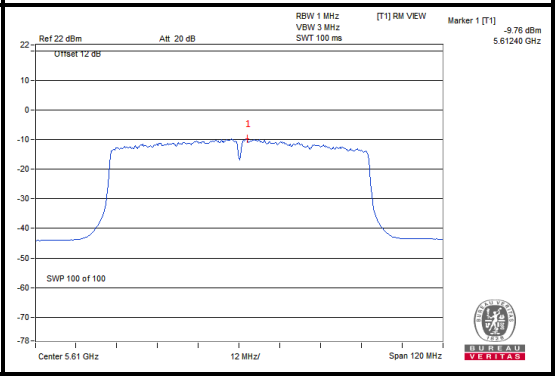






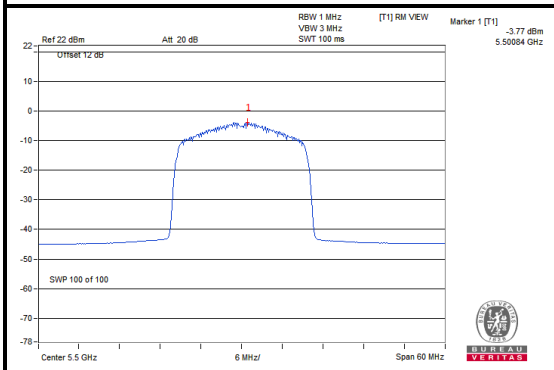
802.11ac 80MHz

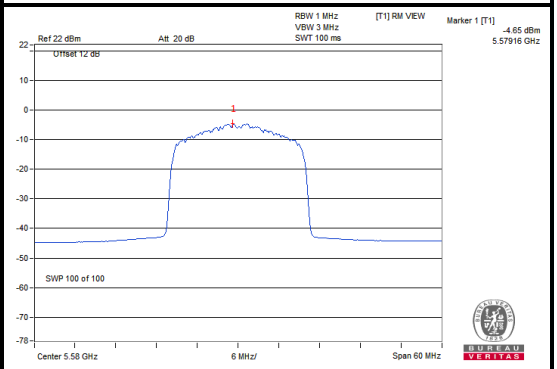


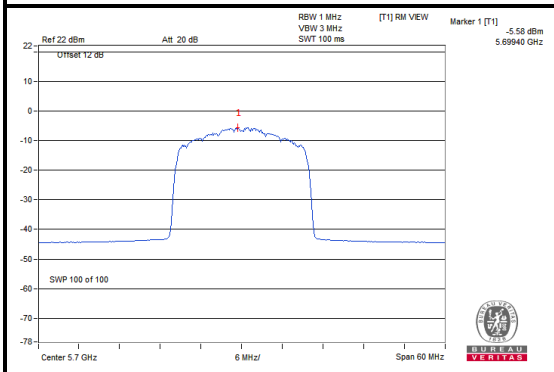


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

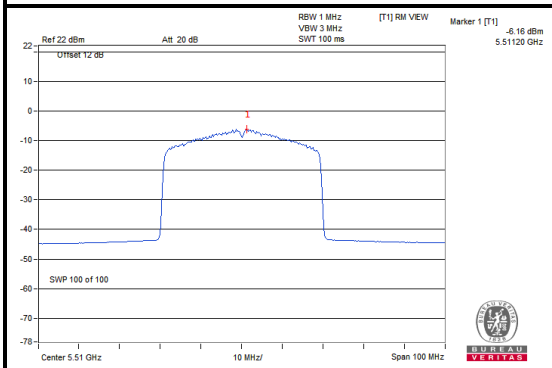


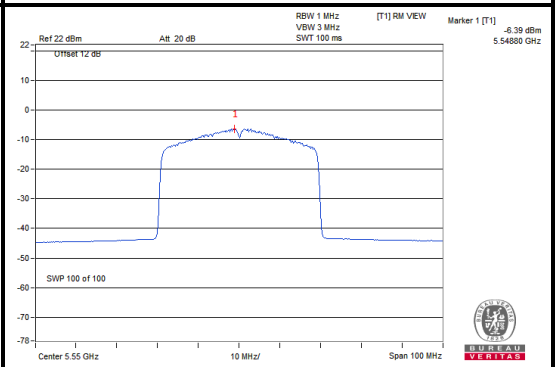


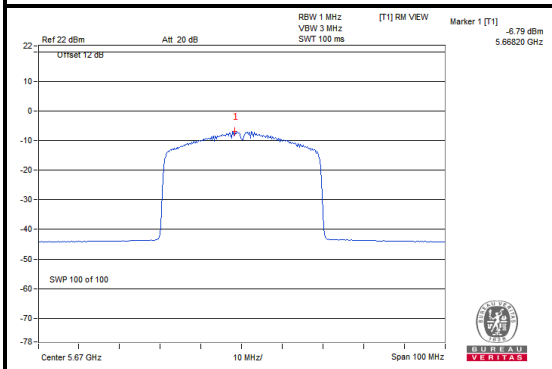


SPECTRUM PLOT OF WORST VALUE

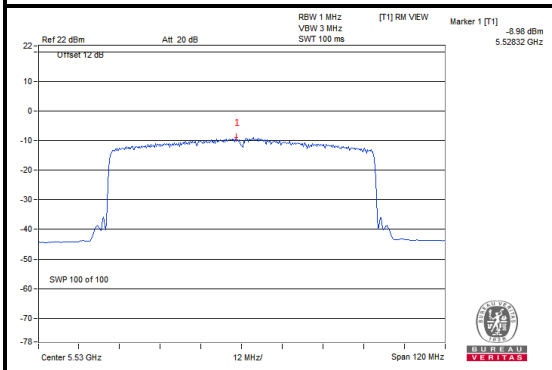
802.11ax 40MHz

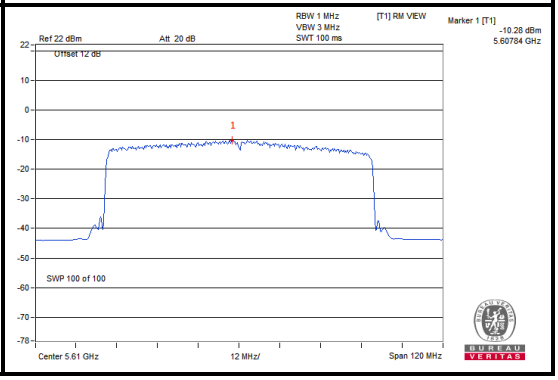




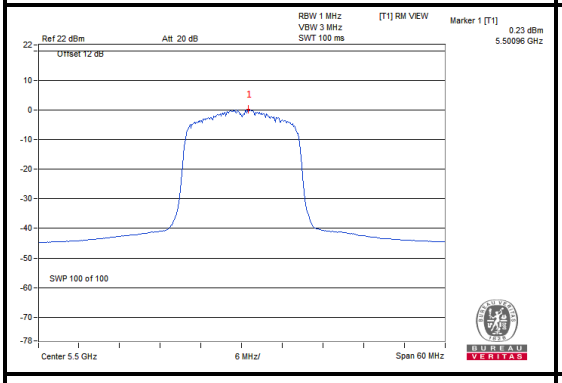
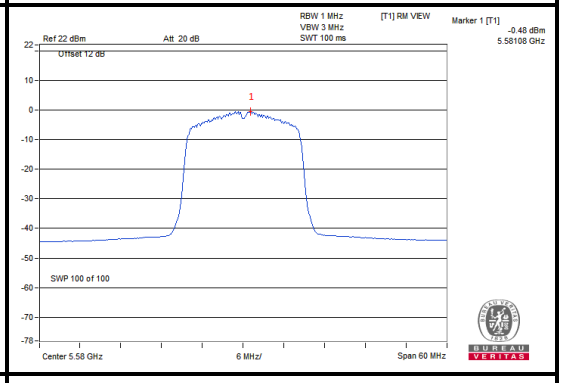
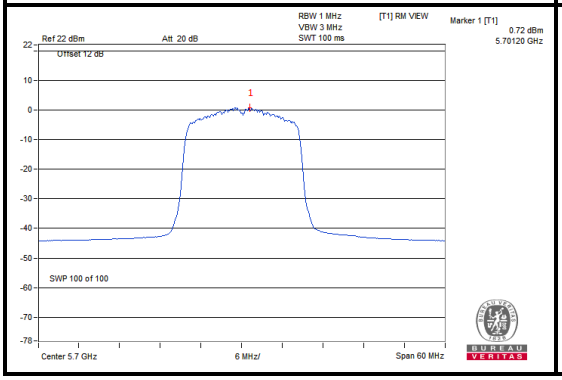


802.11ax 80MHz



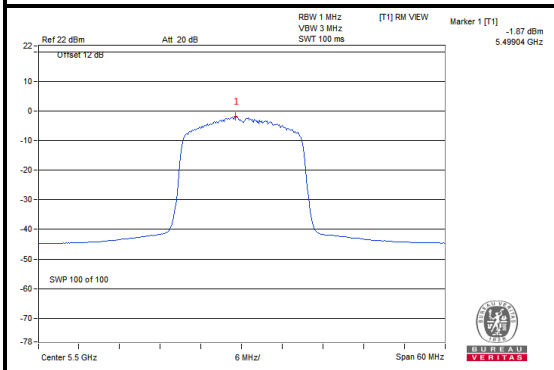


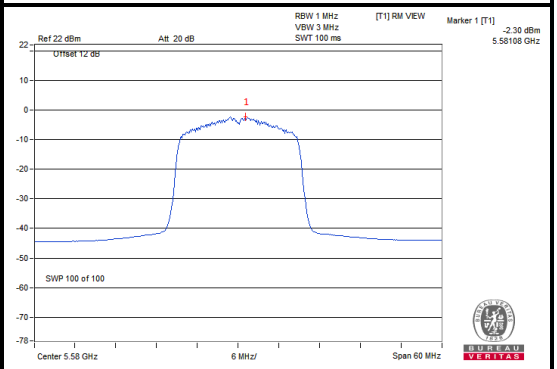
Chain 1

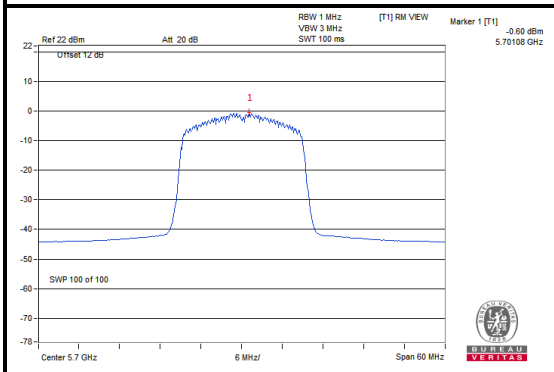
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

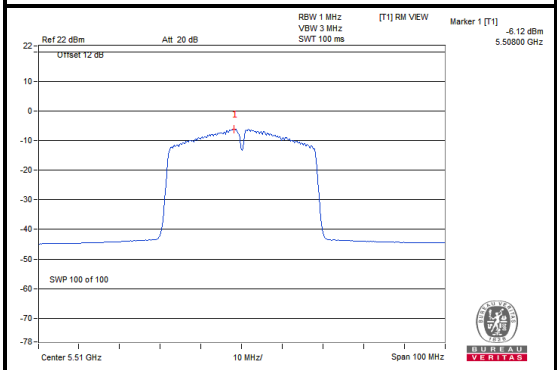


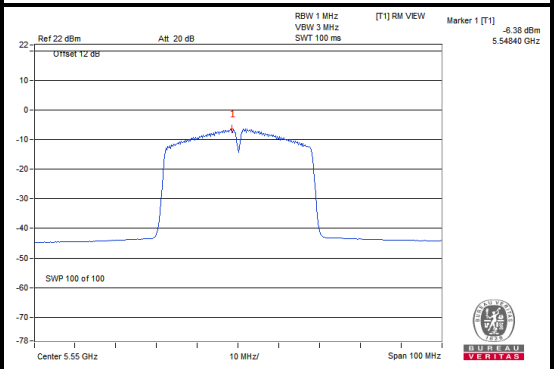


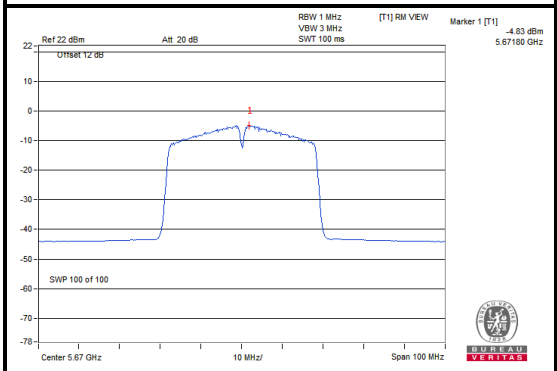


SPECTRUM PLOT OF WORST VALUE

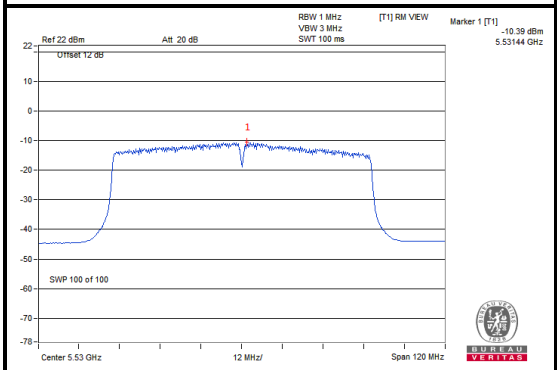
802.11n 40MHz

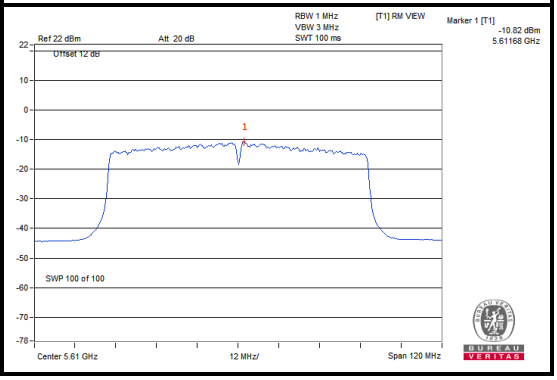






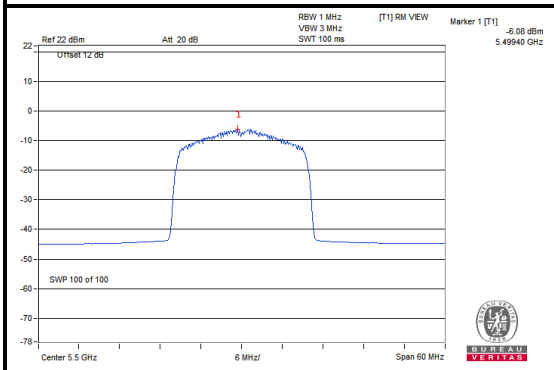
802.11ac 80MHz

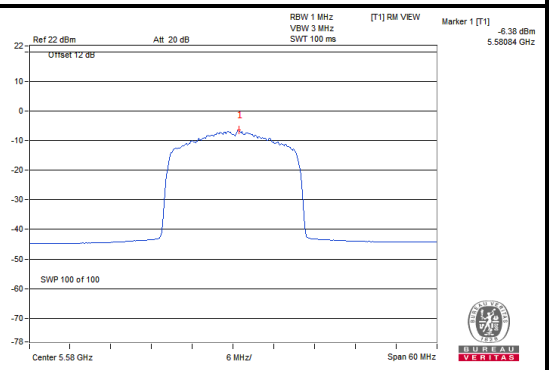


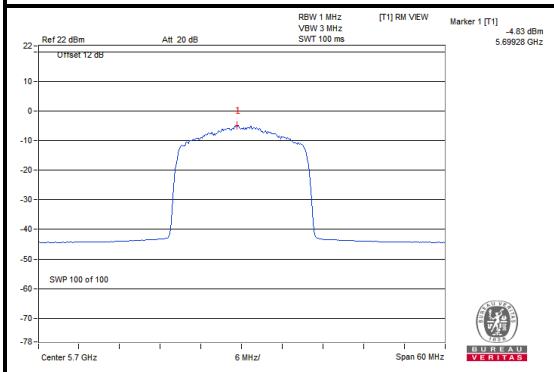


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

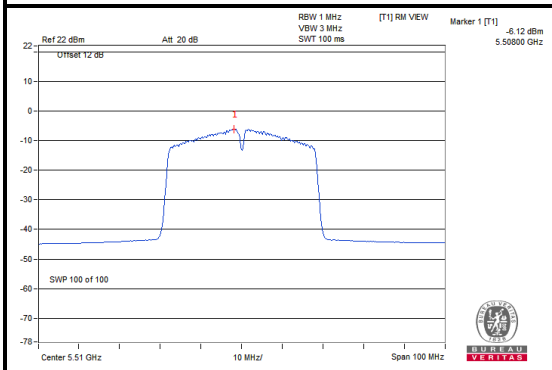


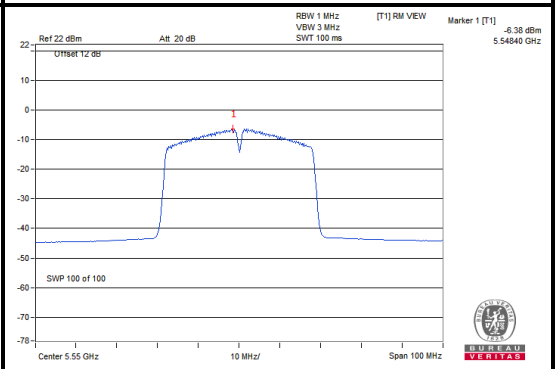


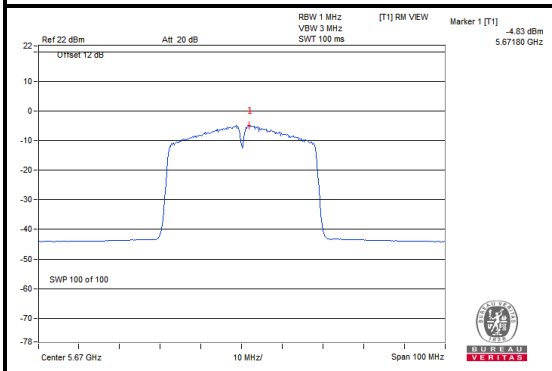


SPECTRUM PLOT OF WORST VALUE

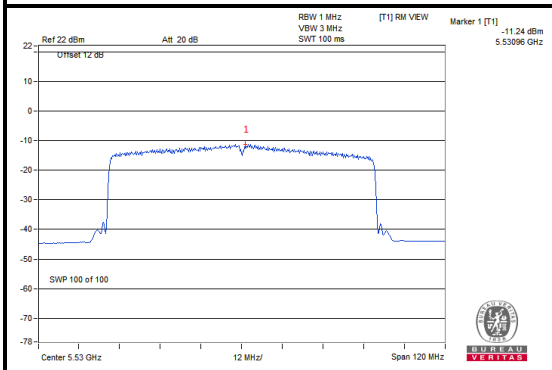
802.11ax 40MHz

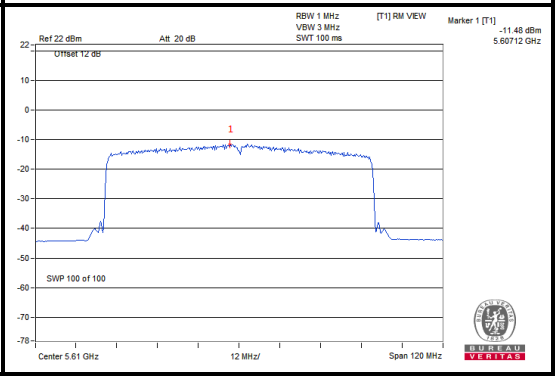






802.11ax 80MHz





For U-NII-3:

802.11a

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
149	5745	1.27	-0.20	3.61	30.00	Pass
157	5785	1.13	-0.47	3.41	30.00	Pass
165	5825	0.63	-0.58	3.08	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

802.11n (20MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
149	5745	-0.09	-0.84	2.56	30.00	Pass
157	5785	-0.14	-1.15	2.39	30.00	Pass
165	5825	-0.25	-1.48	2.19	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

802.11n (40MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
151	5755	-4.32	-5.28	-1.76	30.00	Pass
159	5795	-4.30	-5.27	-1.75	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

802.11ac (80MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
155	5775	-7.77	-11.26	-6.16	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

802.11ax (20MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
149	5745	-4.66	-3.92	-1.26	30.00	Pass
157	5785	-4.94	-4.42	-1.66	30.00	Pass
165	5825	-4.61	-3.89	-1.22	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

802.11ax (40MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
151	5755	-7.66	-6.58	-4.08	30.00	Pass
159	5795	-7.52	-6.93	-4.20	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

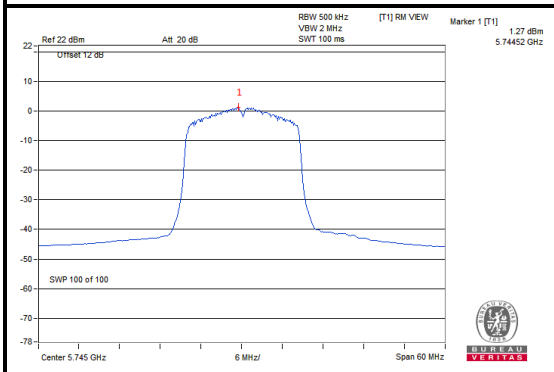
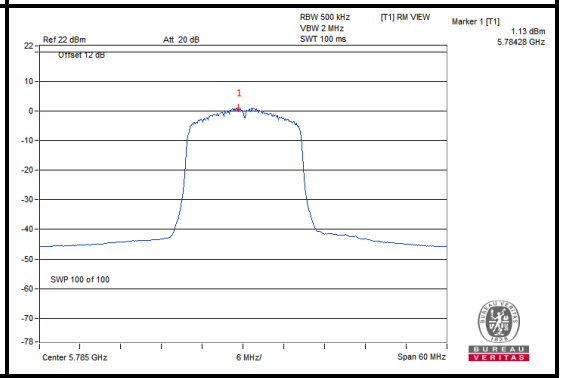
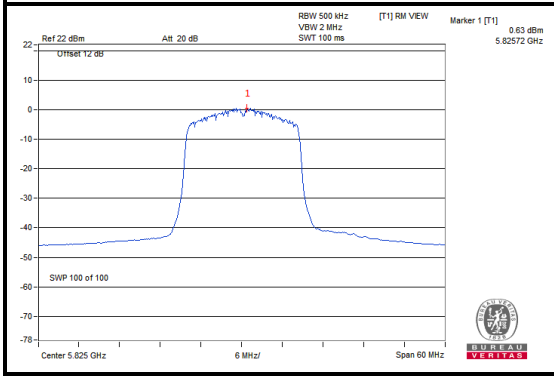
802.11ax (80MHz)

Channel	Freq. (MHz)	PSD (dBm/500kHz)		Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Pass /Fail
		chain 0	chain 1			
155	5775	-10.61	-9.57	-7.05	30.00	Pass

Note:1.Refer to section 2.3 for duty cycle spectrum plot.

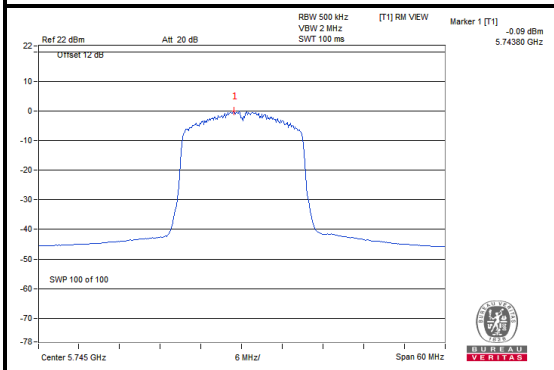
2.Directional gain = 2.12dBi + 10log(2) = 5.13dBi＜6dBi , so the limit is no need to be reduced.

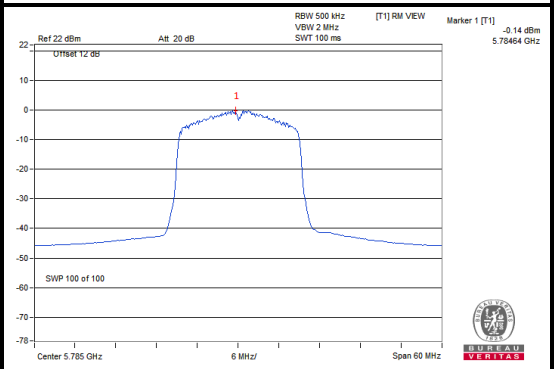
BAND4
5725-5850MHz
Chain 0

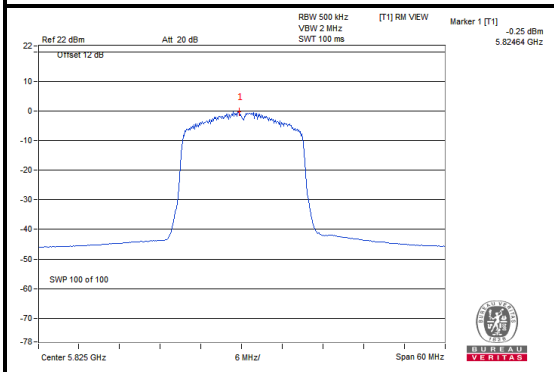
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

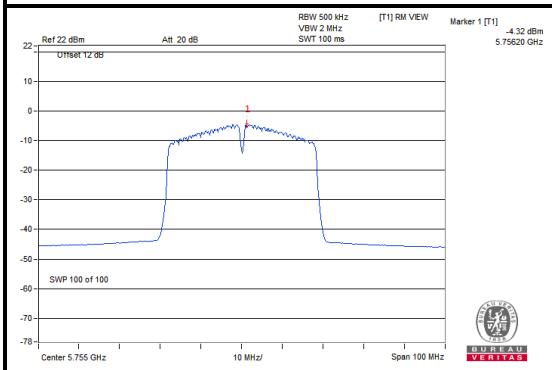


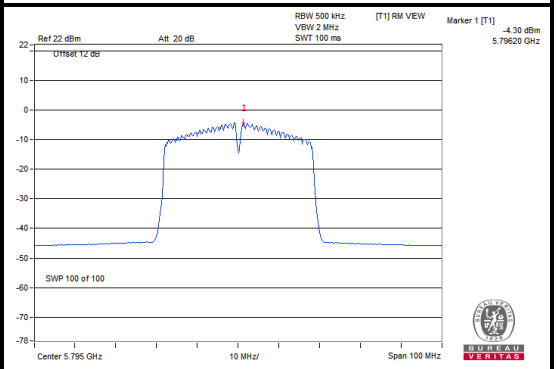




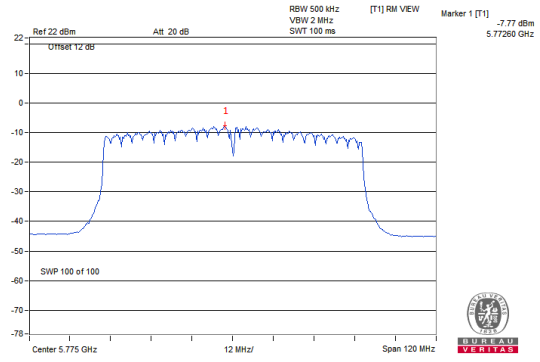
SPECTRUM PLOT OF WORST VALUE

802.11n 40MHz



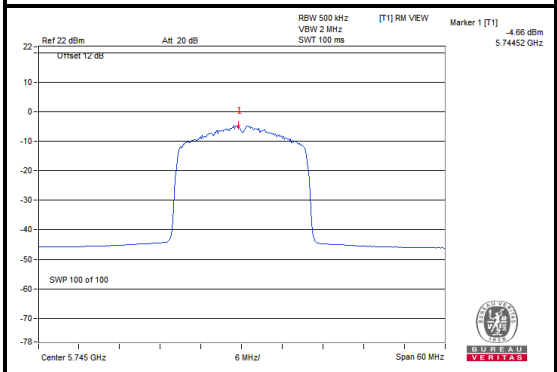


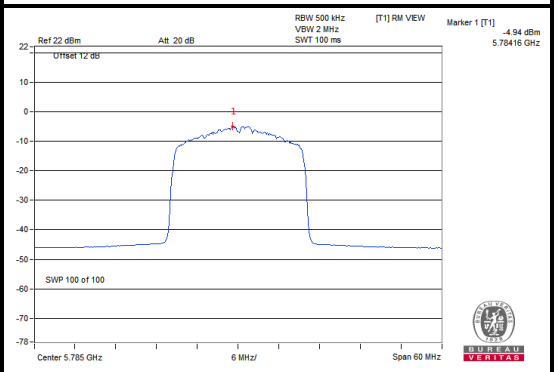
802.11ac 80MHz

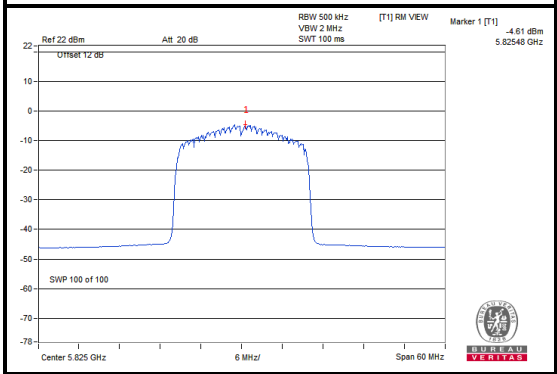


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

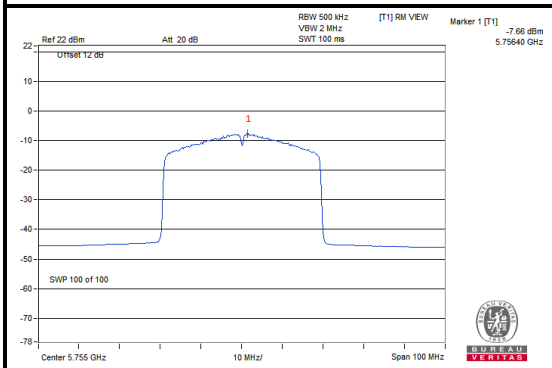


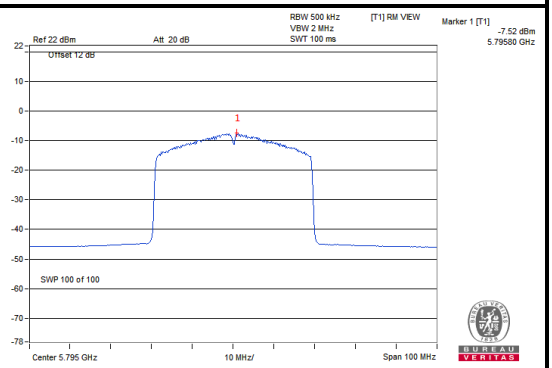




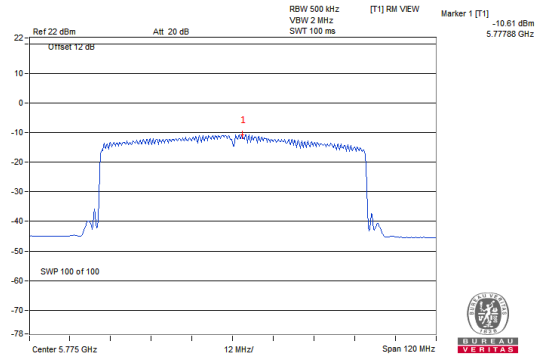
SPECTRUM PLOT OF WORST VALUE

802.11ax 40MHz

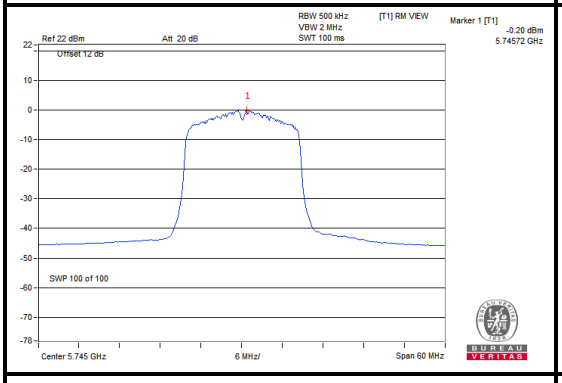
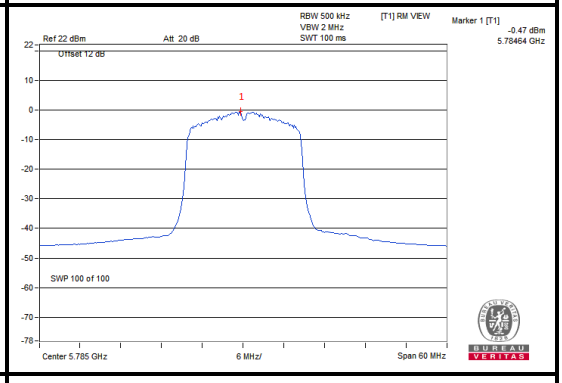
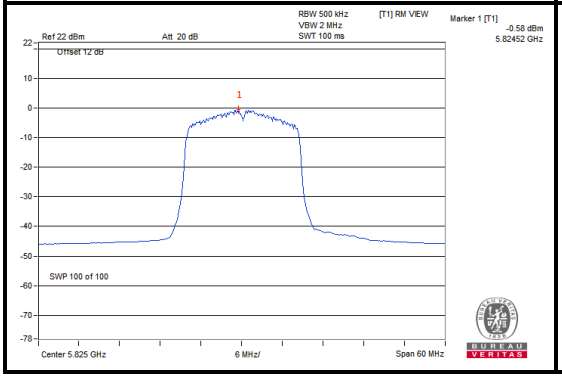




802.11ax 80MHz

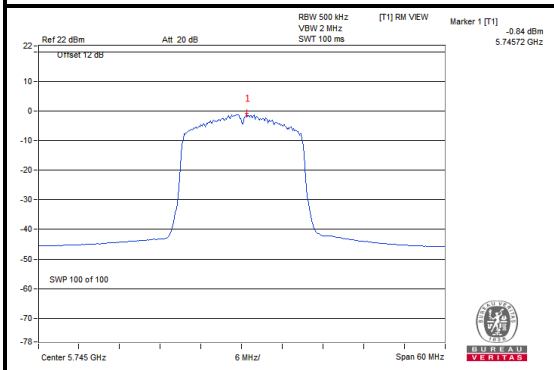


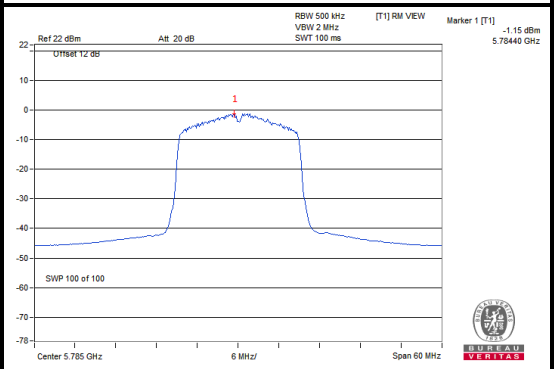
Chain 1

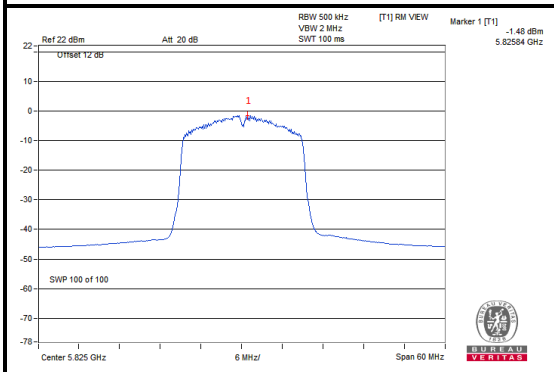
SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

SPECTRUM PLOT OF WORST VALUE

802.11n 20MHz

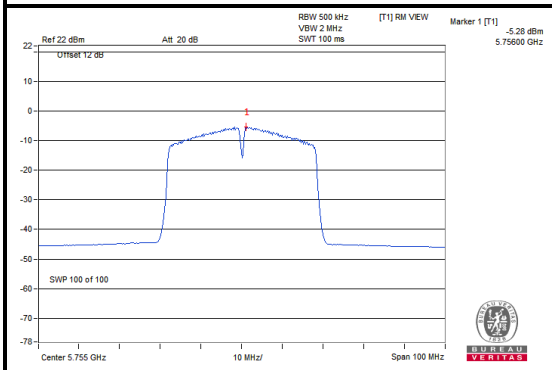


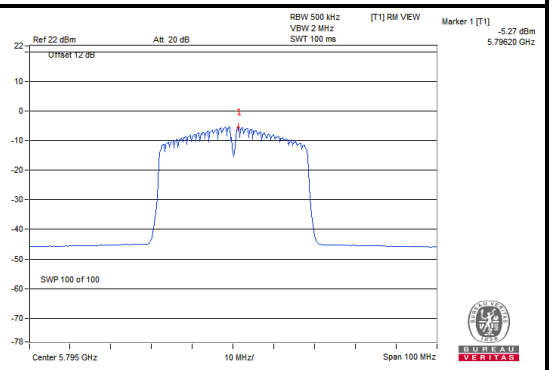




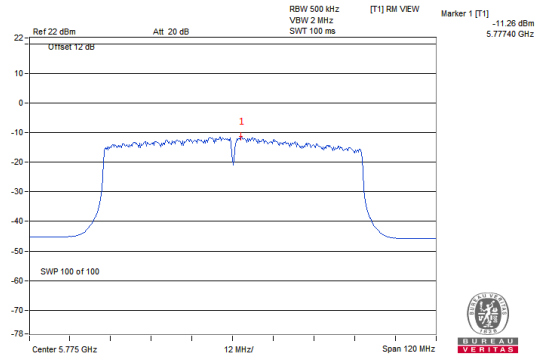
SPECTRUM PLOT OF WORST VALUE

802.11n 40MHz



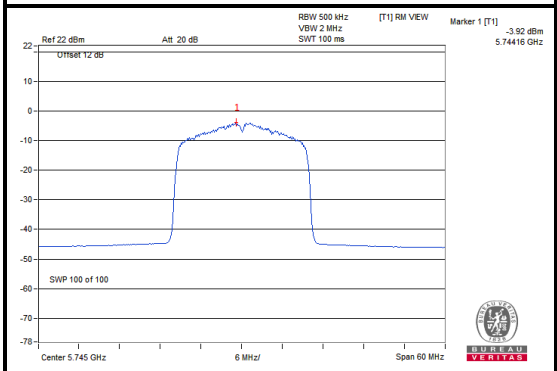


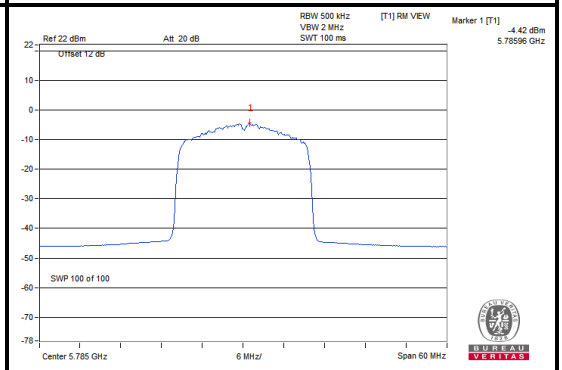
802.11ac 80MHz

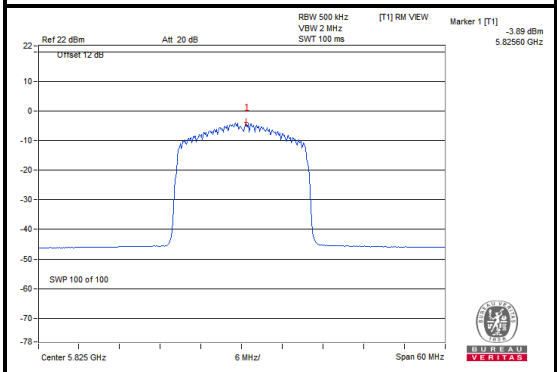


SPECTRUM PLOT OF WORST VALUE

802.11ax 20MHz

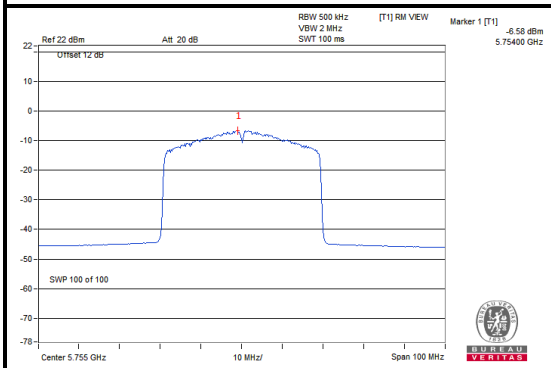


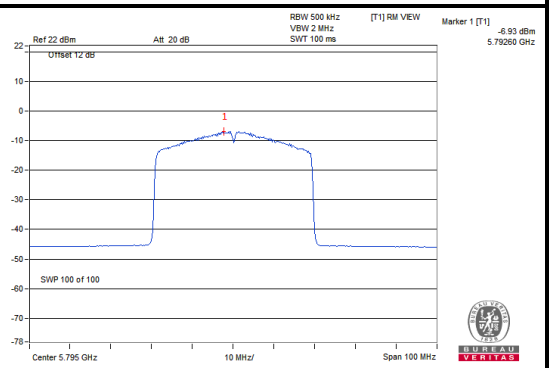




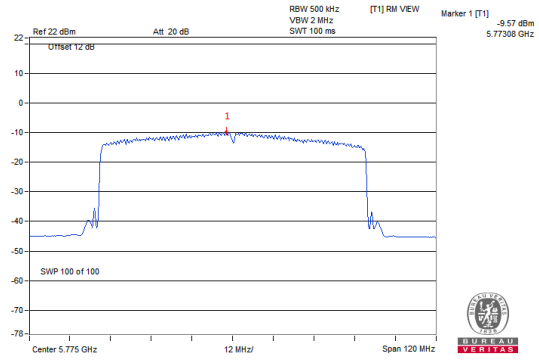
SPECTRUM PLOT OF WORST VALUE

802.11ax 40MHz





802.11ax 80MHz

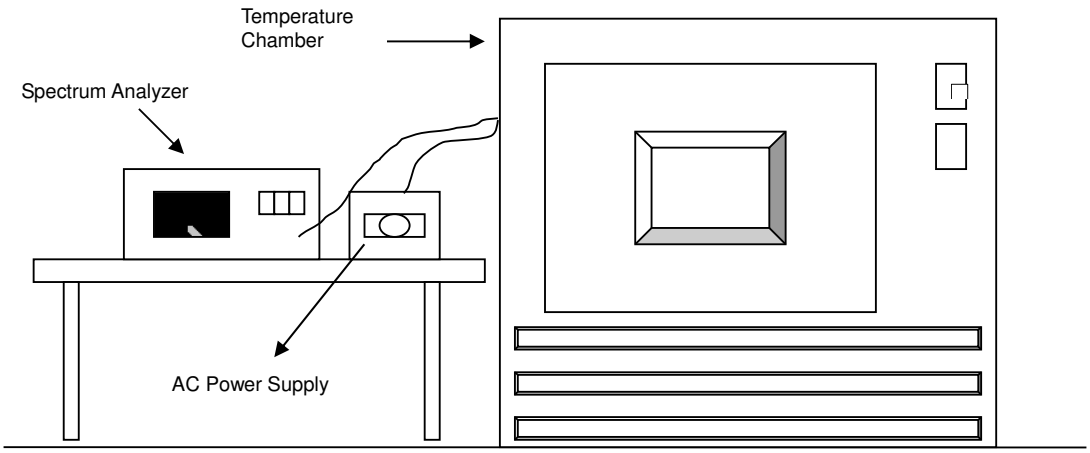


3.5 FREQUENCY STABILITY

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

FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (℃)	POWER SUPPLY (Notebook)	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	5180.0106	0.00020	5180.0119	0.00023	5180.0105	0.00020	5180.0109	0.00021
40	120	5179.999	-0.00002	5179.9994	-0.00001	5180.0004	0.00001	5180.001	0.00002
30	120	5180.008	0.00015	5180.0084	0.00016	5180.012	0.00023	5180.0091	0.00018
20	120	5179.9788	-0.00041	5179.9776	-0.00043	5179.9739	-0.00050	5179.9783	-0.00042
10	120	5180.0168	0.00032	5180.0161	0.00031	5180.0183	0.00035	5180.0203	0.00039
0	120	5180.0154	0.00030	5180.0198	0.00038	5180.0159	0.00031	5180.0198	0.00038
-10	120	5179.995	-0.00010	5179.9971	-0.00006	5179.9975	-0.00005	5179.9976	-0.00005
-20	120	5179.9982	-0.00003	5179.9966	-0.00007	5179.9975	-0.00005	5179.9933	-0.00013
-30	120	5180.0246	0.00047	5180.0274	0.00053	5180.024	0.00046	5180.0276	0.00053

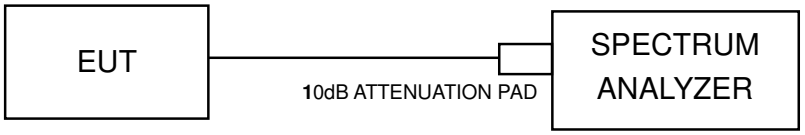
FREQUEMCY STABILITY VERSUS TEMP.									
OPERATING FREQUENCY: 5180MHz									
TEMP. (℃)	POWER SUPPLY (Notebook)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift	Measured Frequency (MHz)	Frequency Drift
20	138	5179.9791	-0.00040	5179.9785	-0.00042	5179.9734	-0.00051	5179.9786	-0.00041
	120	5179.9788	-0.00041	5179.9776	-0.00043	5179.9739	-0.00050	5179.9783	-0.00042
	102	5179.978	-0.00042	5179.977	-0.00044	5179.9745	-0.00049	5179.9781	-0.00042

3.6 6dB BANDWIDTH MEASURMENT

3.6.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

3.6.2 Test Setup



3.6.3 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

3.6.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

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

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 EUT OPERATING CONDITION

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

3.6.7 TEST RESULTS

6dB BANDWIDTH For 5725-5850MHz

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.05	15.07	0.5	Pass
157	5785	15.11	15.10	0.5	Pass
165	5825	15.11	15.08	0.5	Pass

802.11n (20M)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.05	15.09	0.5	Pass
157	5785	15.07	15.11	0.5	Pass
165	5825	15.08	15.06	0.5	Pass

802.11n (40M)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	30.25	33.91	0.5	Pass
159	5795	30.18	32.65	0.5	Pass

802.11ac (80M)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	75.43	75.47	0.5	Pass

802.11ax (20M)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.10	15.08	0.5	Pass
157	5785	13.89	15.12	0.5	Pass
165	5825	15.06	15.11	0.5	Pass

802.11ax (40M)

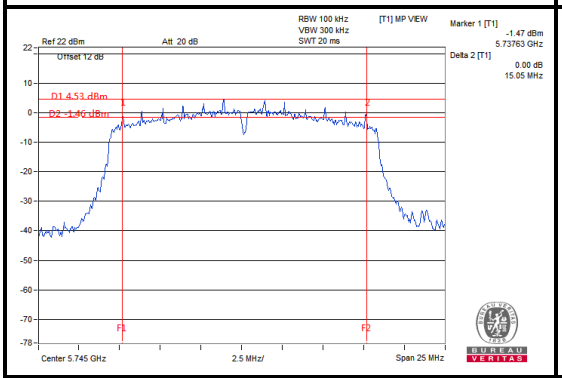
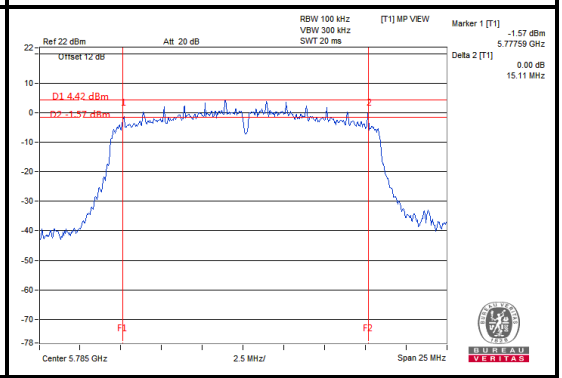
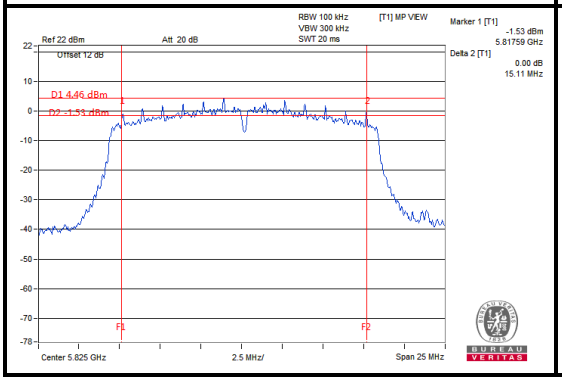
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	32.53	32.82	0.5	Pass
159	5795	30.10	31.34	0.5	Pass

802.11ax (80MHz)

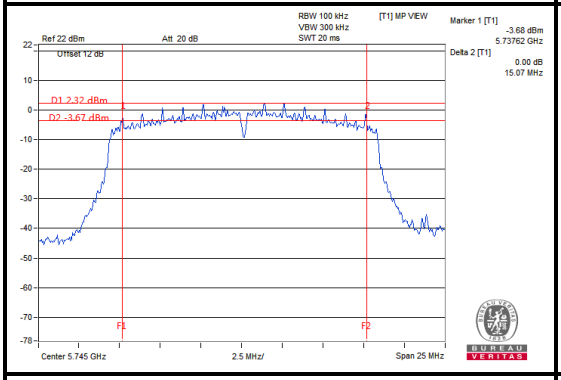
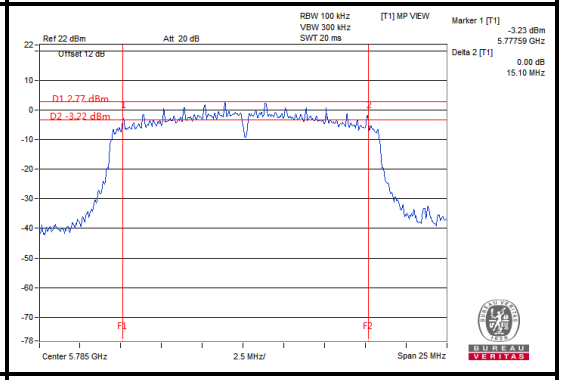
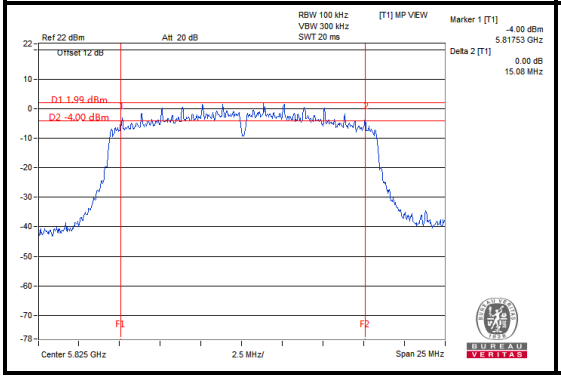
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	76.61	75.41	0.5	Pass

6dB BANDWIDTH For 5725-5850MHz

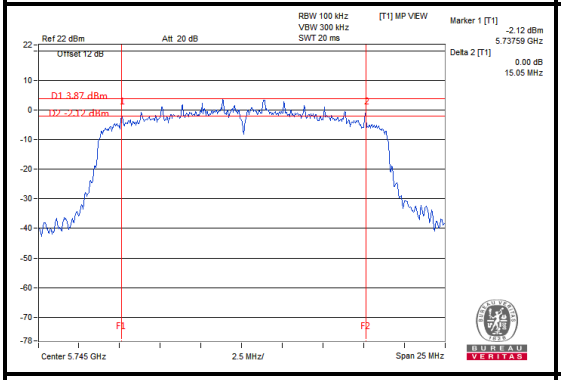
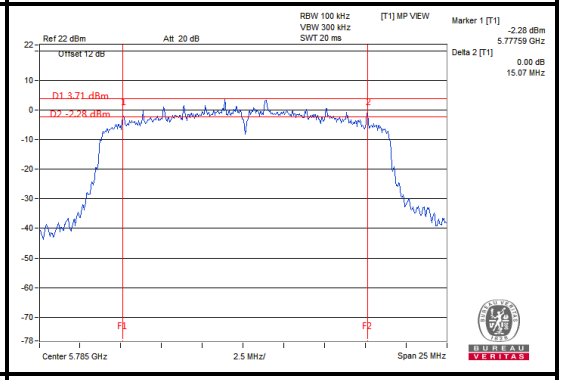
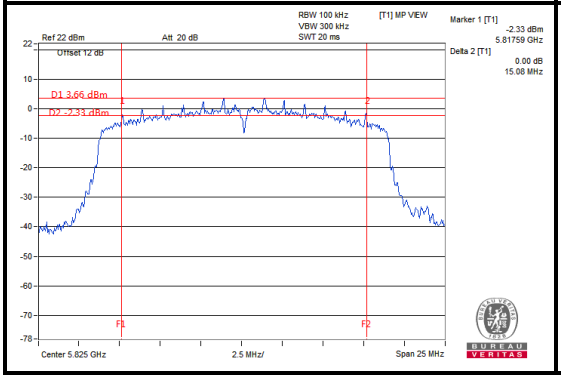
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

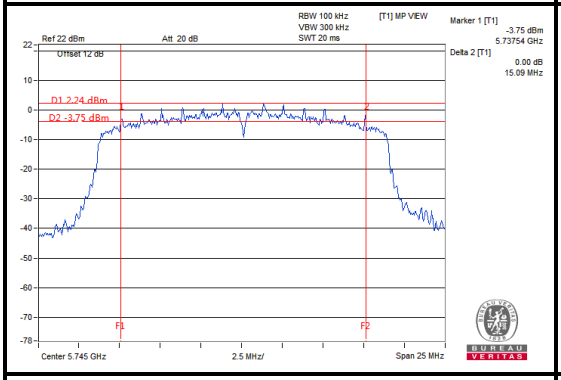
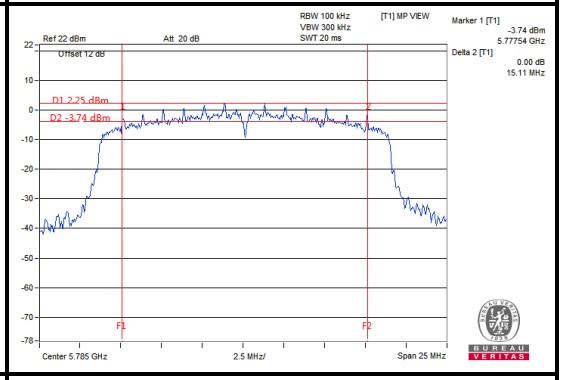
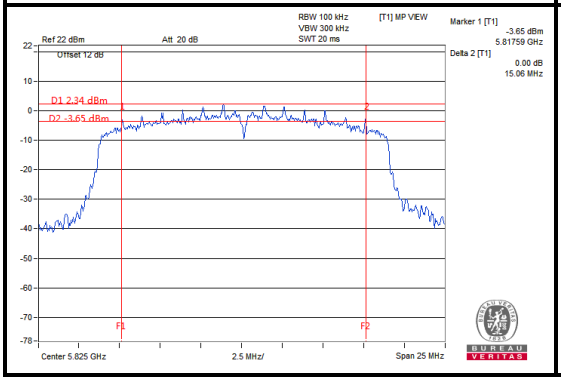
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11a	
	
	

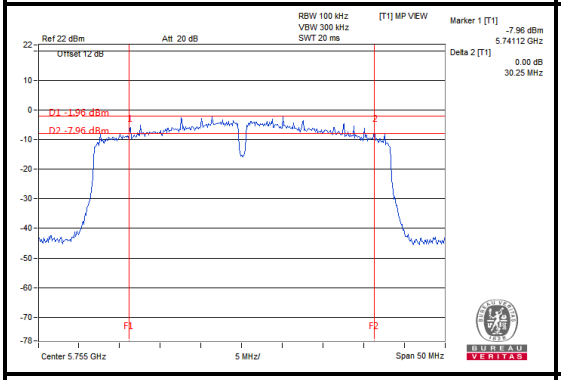
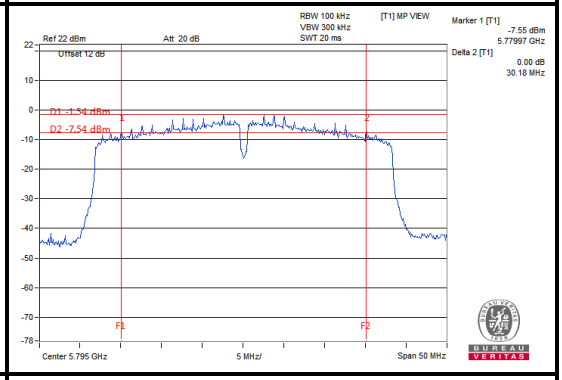
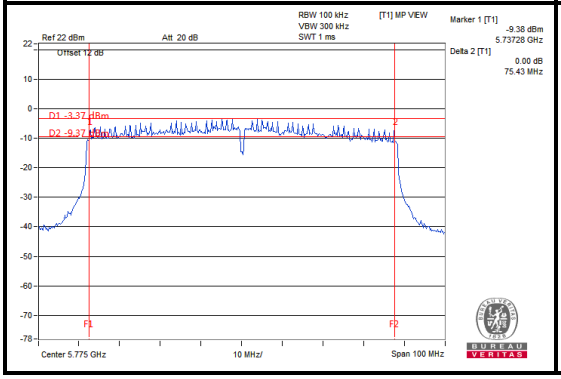
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	
	
	

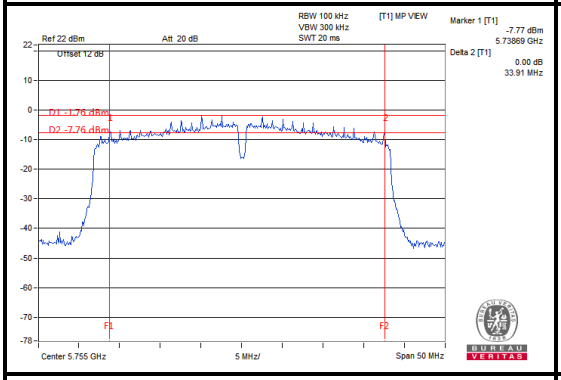
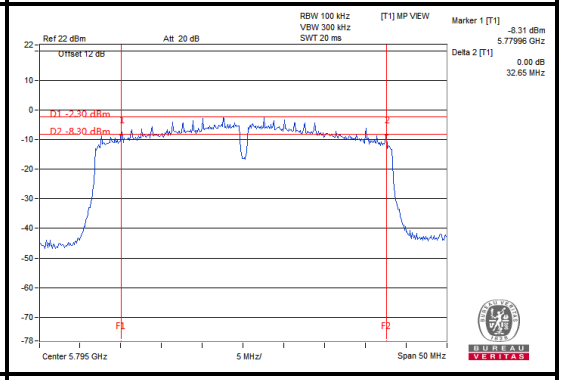
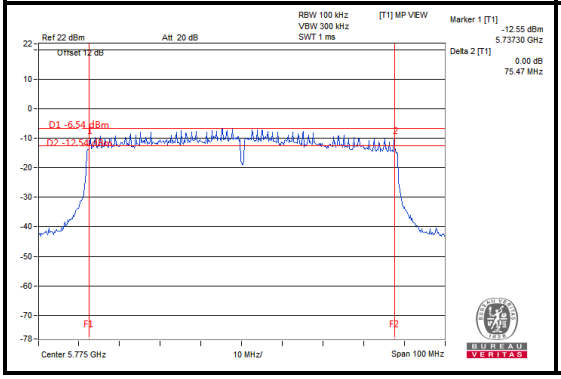
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 20MHz	
	
	

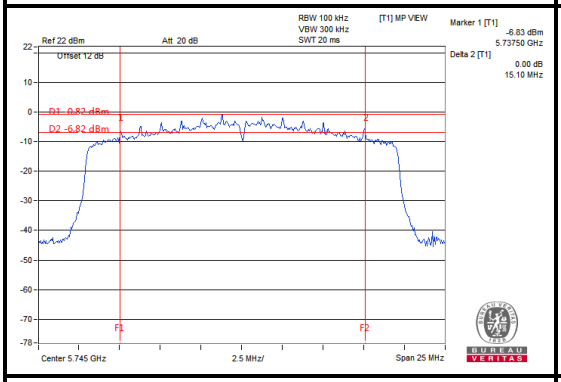
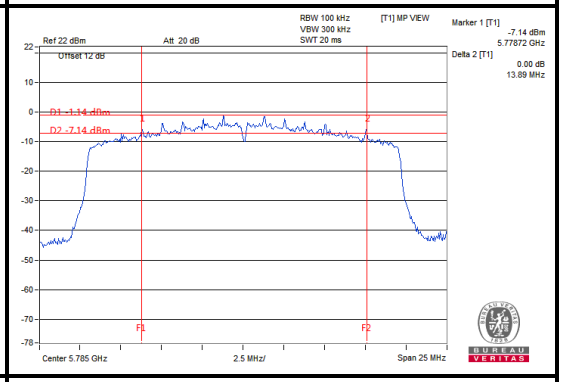
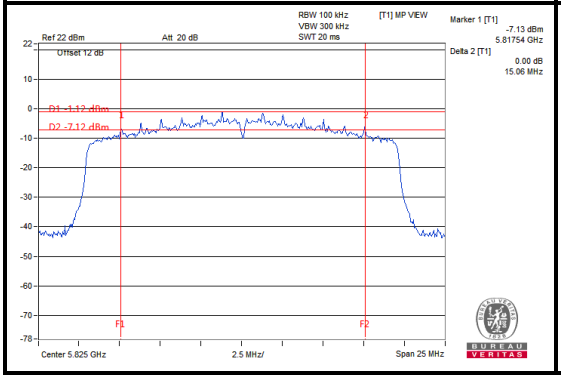
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11n 40MHz	
	
802.11ac 80MHz	
	

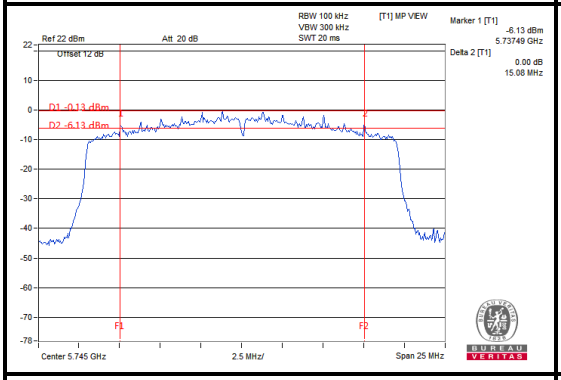
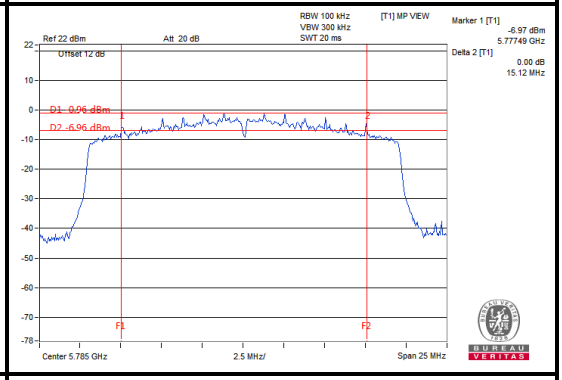
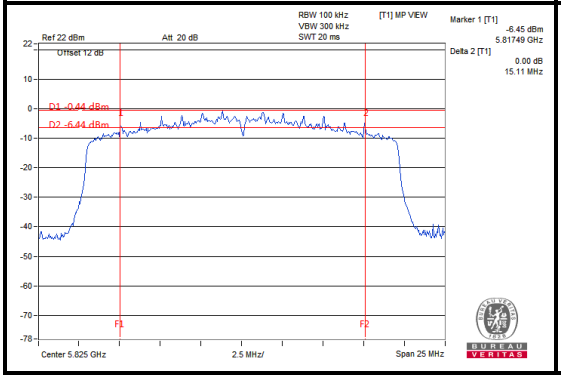
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11n 40MHz	
	
802.11ac 80MHz	
	

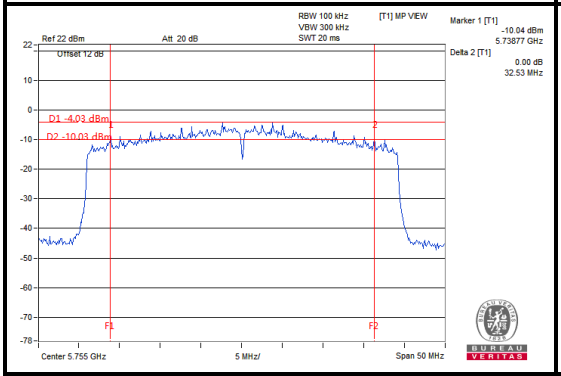
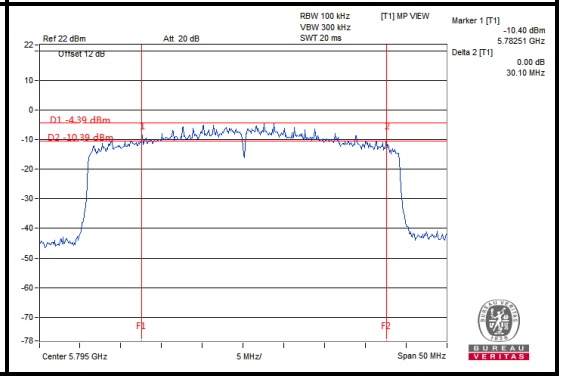
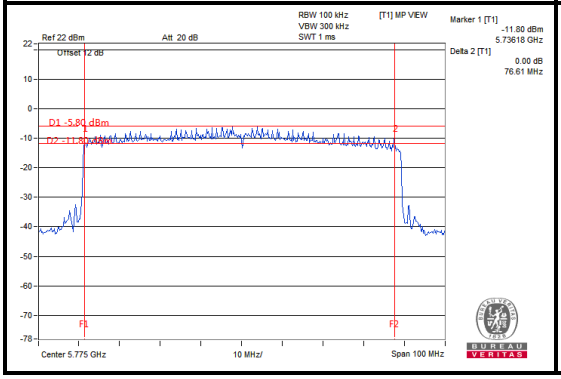
Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11ax 20MHz	
	
	

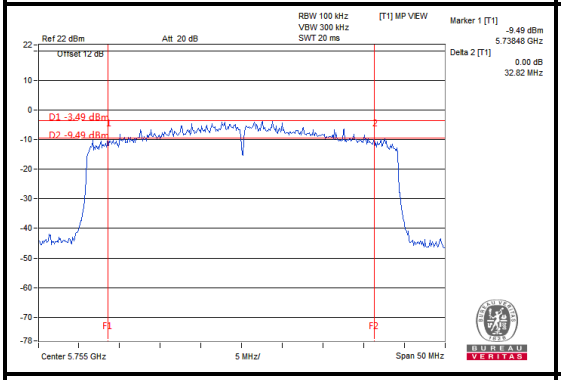
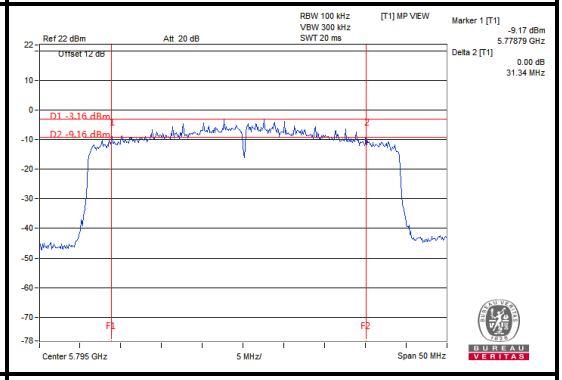
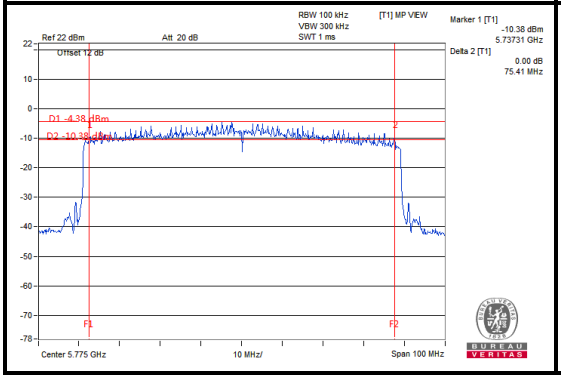
Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11ax 20MHz	
	
	

Chain 0

SPECTRUM PLOT OF WORST VALUE	
802.11ax 40MHz	
	
802.11ax 80MHz	
	

Chain 1

SPECTRUM PLOT OF WORST VALUE	
802.11ax 40MHz	
	
802.11ax 80MHz	
	

4. PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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---