FCC Test Report

Report No.:	RF121023C05B
FCC ID:	HDCWLAN192XF1
Test Model:	BSAP-1920
Series Model:	BSAP-1925
Received Date:	Aug. 07, 2015
Test Date:	Aug. 12 ~ Sep. 08, 2015
Issued Date:	Sep. 11, 2015
Applicant:	Adtran
Address:	901 Explorer Boulevard Huntsville Alabama United States
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

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Release Control Record

Issue No.	Description	Date Issued
RF121023C05B	Original release	Sep. 11, 2015

1 Certificate of Conformity

Product:	Wireless 802.11abgn Access Point
Brand:	Adtran
Test Model:	BSAP-1920
Series Model:	BSAP-1925
Sample Status:	Engineering sample
Applicant:	Adtran
Test Date:	Aug. 12 ~ Sep. 08, 2015
Standards:	47 CFR FCC Part 15, Subpart E (Section 15.407) ANSI C63.10:2013

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

Prepared by : Celine Chou , **Date:** Sep. 11, 2015

Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Sep. 11, 2015

Ken Liu / Senior Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.207 15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -6.34dB at 26.50340MHz.
15.407(b) (1/2/3/4/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.0dB at 5725.00MHz and 625.01MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connectors are UFL and RSMA not a standard connector.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expended Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.44 dB
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	3.86 dB
	200MHz ~1000MHz	3.87 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless 802.11abgn Access Point
Brand	Adtran
Test Model	BSAP-1920
Series Model	BSAP-1925
Model Difference	Refer to Note
Status of EUT	Engineering sample
Power Supply Rating	12Vdc (adapter) 56Vdc (PoE)
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	OFDM
Transfer Rate	802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 300Mbps
Operating Frequency	5260 ~ 5320MHz, 5500 ~ 5700MHz
Number of Channel	5260 ~ 5320MHz: 4 for 802.11a, 802.11n (HT20) 2 for 802.11n (HT40) 5500 ~ 5700MHz: 8 for 802.11a, 802.11n (HT20 3 for 802.11n (HT40)
Output Power	5260 ~ 5320MHz: 149.860mW 5500 ~ 5700MHz: 119.551mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	Adapter
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC class II permissive change. The difference compared with the original report (BV ADT report no.: RF121023C05A) is adding 5.26GHz to 5.32GHz and 5.50GHz to 5.70GHz by software.
2. All models are listed as below. All models are hardware, software, electrically identical, different model names are for different antenna. (refer to as below for more detail)

Brand	Model	Description
Adtran	BSAP-1925	With External Antenna only
	BSAP-1920	With Internal Antenna only

3. The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

Modulation Mode	TX Function
802.11a	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX

4. The EUT consumes power from the following adapter.

Adapter	
Brand	Powertron
Model	PA1015-2I/PA1015-2I120125
Input	100-240Vac, 50-60Hz, 0.4A
Output	12Vdc, 1.25A, 15W
Power Line	1.5m non-shielded, w/o core

5. The following antennas were provided to the EUT.

No.	Type	Gain(dBi)	Connector
1	Embedded	2.4GHz Band: 3dBi 5GHz Band: 4dBi	UFL
2	Dipole	2.4GHz Band: 3dBi 5GHz Band: 3dBi	RSMA

3.2 Description of Test Modes

For 5260 ~ 5320MHz

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

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

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

For 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (HT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION	
	RE≥1G	RE<1G	PLC	APCM	EUT Model	Power
A	√	√	√	√	BSAP-1920	Power from adapter
B	-	√	√	-		Power from PoE
C	√	√	√	-	BSAP-1925	Power from adapter
D	-	√	√	-		Power from PoE

Where **RE≥1G:** Radiated Emission above 1GHz & Bandedge Measurement **RE<1G:** Radiated Emission below 1GHz

PLC: Power Line Conducted Emission **APCM:** Antenna Port Conducted Measurement

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.**
2. "-"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, C	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
A, C	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
A, C	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0
A, C	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
A, C	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
A, C	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0

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, B, C, D	802.11a	5260-5320	52 to 64	52	OFDM	BPSK	6.0
		5500-5700	100 to 140		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, B, C, D	802.11a	5260-5320	52 to 64	52	OFDM	BPSK	6.0
		5500-5700	100 to 140		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, C	802.11a	5260-5320	52 to 64	52, 60, 64	OFDM	BPSK	6.0
A, C	802.11n (HT20)		52 to 64	52, 60, 64	OFDM	BPSK	7.2
A, C	802.11n (HT40)		54 to 62	54, 62	OFDM	BPSK	15.0
A, C	802.11a	5500-5700	100 to 140	100, 116, 140	OFDM	BPSK	6.0
A, C	802.11n (HT20)		100 to 140	100, 116, 140	OFDM	BPSK	7.2
A, C	802.11n (HT40)		102 to 134	102, 110, 134	OFDM	BPSK	15.0

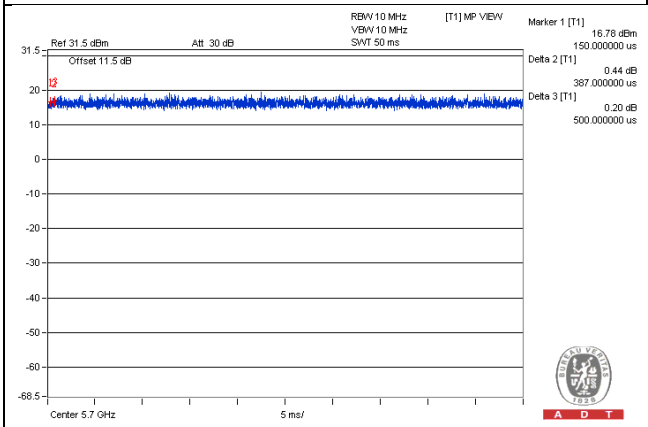
Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE≥1G	18deg. C, 70%RH	120Vac, 60Hz	Nick Hsu
RE<1G	18deg. C, 70%RH	120Vac, 60Hz 56Vdc (POE)	Nick Hsu
PLC	20deg. C, 70%RH	120Vac, 60Hz	Jones Chang
APCM	25deg. C, 60%RH	120Vac, 60Hz	Antony Lee

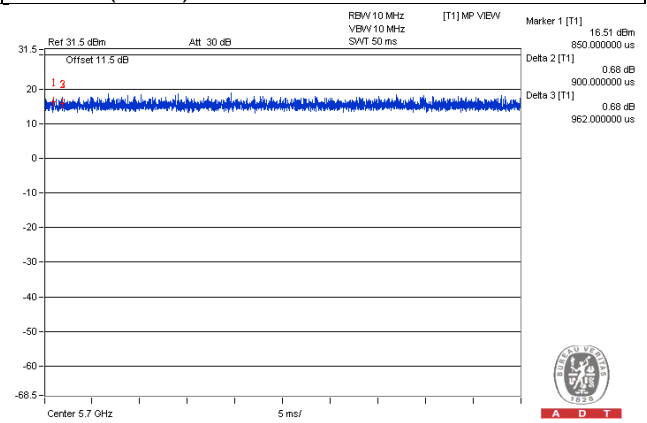
3.3 Duty Cycle of Test Signal

Duty cycle of test signal is > 98 %, duty factor is not required

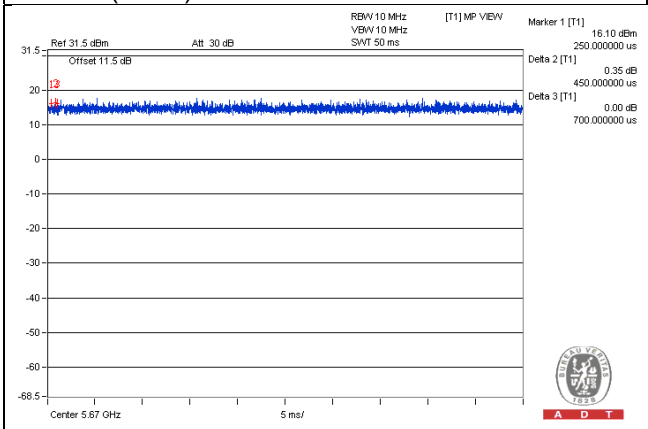
802.11a



802.11n (HT20)



802.11n (HT40)



3.4 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-
B.	POE	PHIHONG	POE21U-1AF	NA	NA	Provided by Manufacturer For test mode B and D only

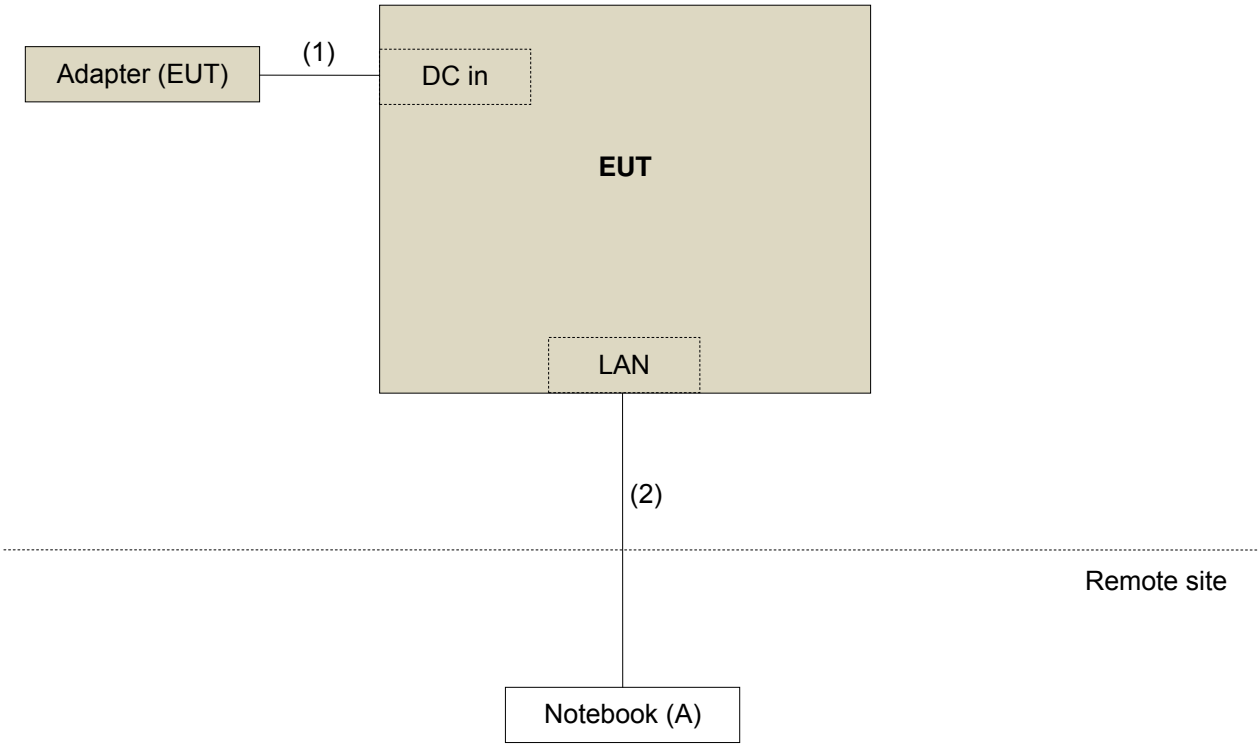
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as a communication partner to transfer data.

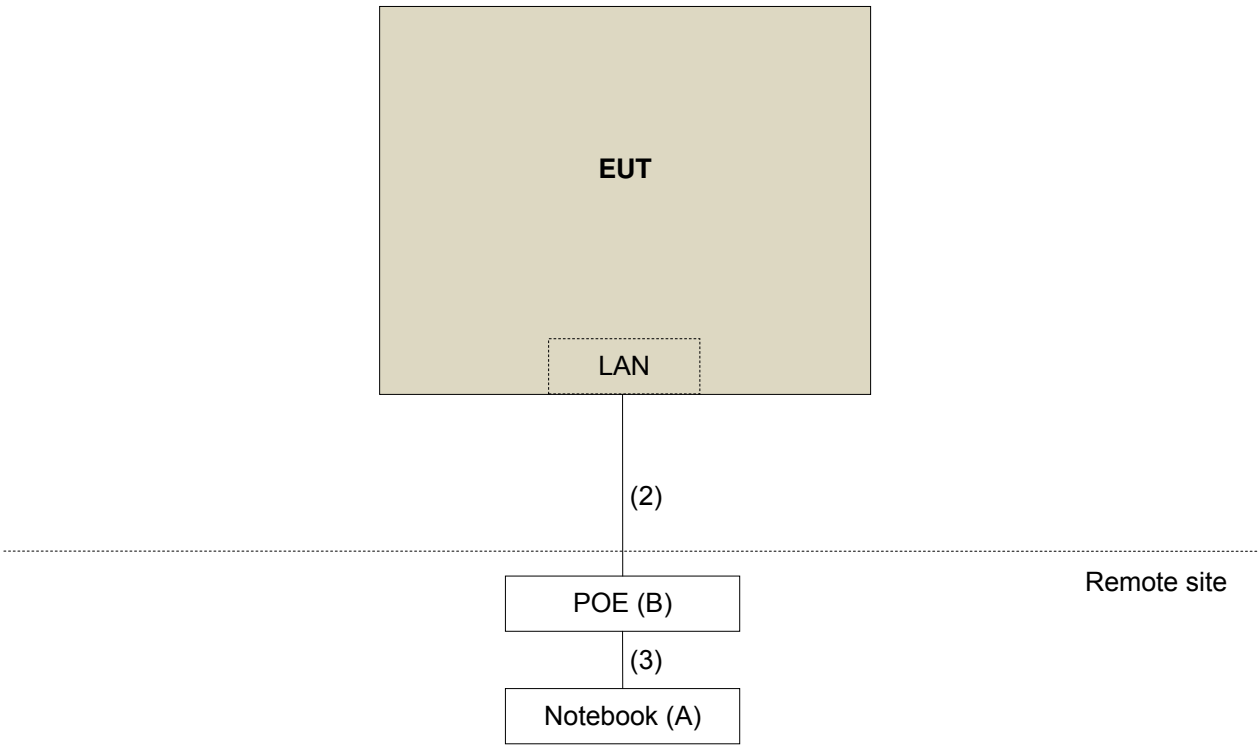
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	Power	1	1.5	N	0	Attached on adapter
2.	RJ45 , Cat5e	1	3	N	0	-
3.	RJ45 , Cat5e	1	3	N	0	For test mode B and D only

3.4.1 Configuration of System under Test

Test mode A and C



Test mode B and D



3.5 General Description of Applied Standards

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

FCC Part 15, Subpart E (15.407)

789033 D02 General UNII Test Procedures New Rules v01

662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

Note: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Applicable To	Limit	
789033 D02 General UNII Test Procedures New Rules v01	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)	PK:-27 (dBm/MHz) [*1] PK:-17 (dBm/MHz) [*2]	PK: 68.2(dBμV/m) [*1] PK:78.2 (dBμV/m) [*2]

Note: [*1] beyond 10MHz of the band edge [*2] within 10 MHz of 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).

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	Apr. 10, 2015	Apr. 09, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100041	Sep. 02, 2014	Sep. 01, 2015
			Sep. 02, 2015	Sep. 01, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Feb. 05, 2015	Feb. 04, 2016
HORN Antenna SCHWARZBECK	9120D	209	Feb. 09, 2015	Feb. 08, 2016
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Feb. 09, 2015	Feb. 08, 2016
Preamplifier Agilent	8447D	2944A10738	Oct.18, 2014	Oct. 17, 2015
Preamplifier Agilent	8449B	3008A01964	Aug. 22, 2014	Aug. 21, 2015
			Aug. 22, 2015	Aug. 21, 2016
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03(214378)	Aug. 22, 2014	Aug. 21, 2015
			Aug. 22, 2015	Aug. 21, 2016
RF signal cable HUBER+SUHNER	SUCOFLEX 106	Cable-CH3-03(309224+ 12738)	Aug. 22, 2014	Aug. 21, 2015
			Aug. 22, 2015	Aug. 21, 2016
Software BV ADT	ADT_Radiated_ V7.6.15.9.4	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
26GHz ~ 40GHz Amplifier	EM26400	815221	Oct. 18, 2014	Oct. 17, 2015
High Speed Peak Power Meter	ML2495A	0824011	Jul. 09, 2015	Jul. 08, 2016
Power Sensor	MA2411B	0738171	Jul. 09, 2015	Jul. 08, 2016
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 08, 2015	Jun. 07, 2016

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 988962.
5. The IC Site Registration No. is IC 7450F-3.

4.1.3 Test Procedures

a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

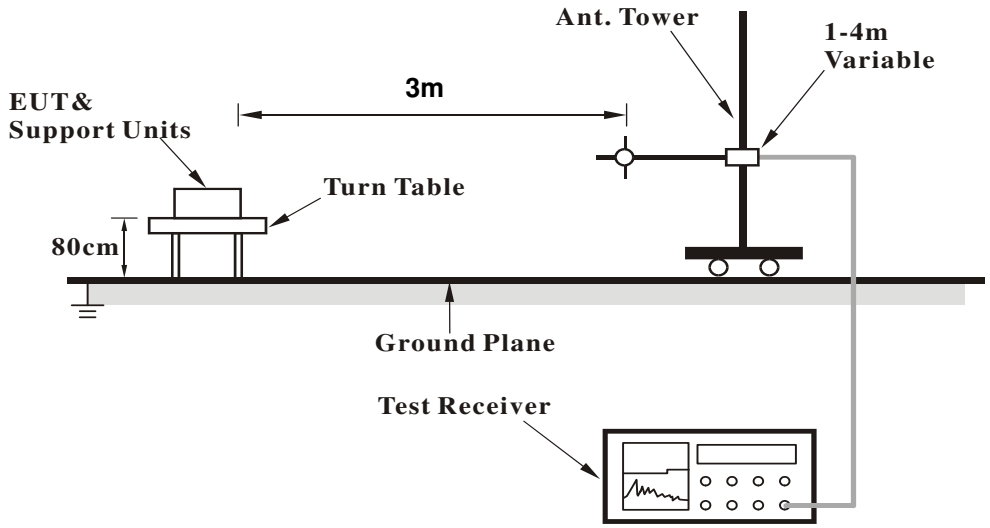
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

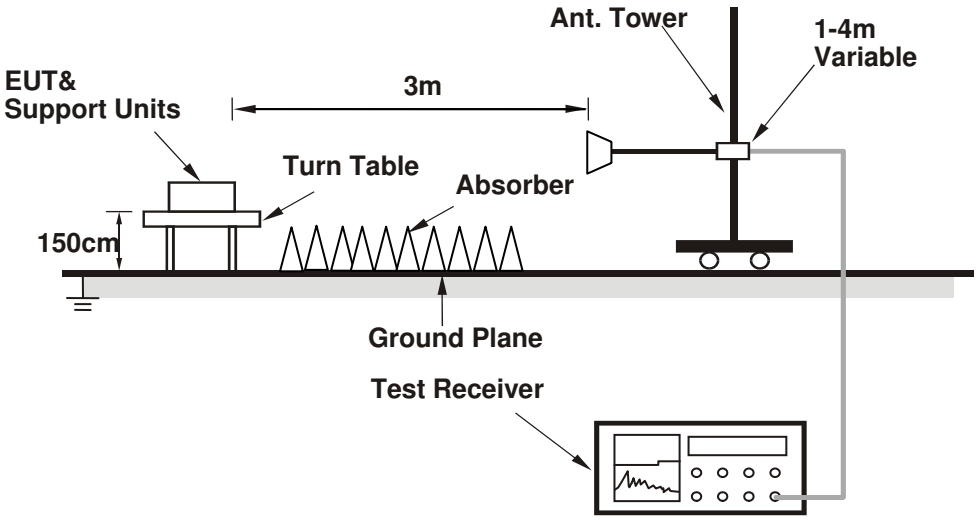
No deviation.

4.1.5 Test Set Up

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



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

4.1.6 EUT Operating Conditions

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

4.1.7 Test Results

Above 1GHz Data

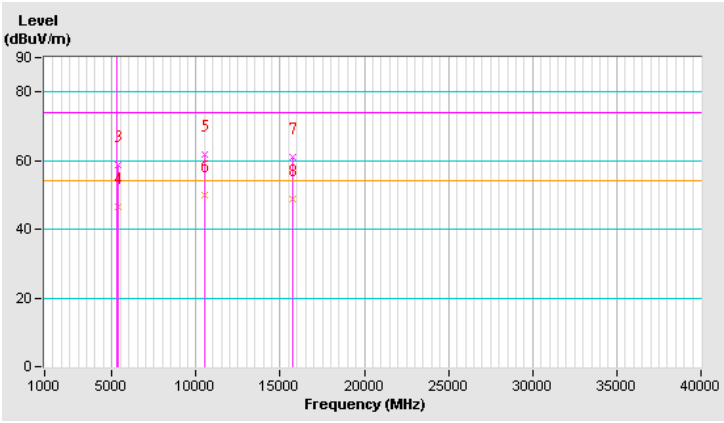
802.11a

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

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	*5260.00	115.0 PK			1.74 H	332	75.30	39.70
2	*5260.00	104.5 AV			1.74 H	332	64.80	39.70
3	5350.00	58.6 PK	74.0	-15.4	1.68 H	328	52.50	6.10
4	5350.00	46.4 AV	54.0	-7.6	1.68 H	328	40.30	6.10
5	#10520.00	61.7 PK	74.0	-12.3	2.02 H	100	42.50	19.20
6	#10520.00	50.0 AV	54.0	-4.0	2.02 H	100	30.80	19.20
7	15780.00	60.9 PK	74.0	-13.1	2.14 H	191	42.80	18.10
8	15780.00	48.7 AV	54.0	-5.3	2.14 H	191	30.60	18.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

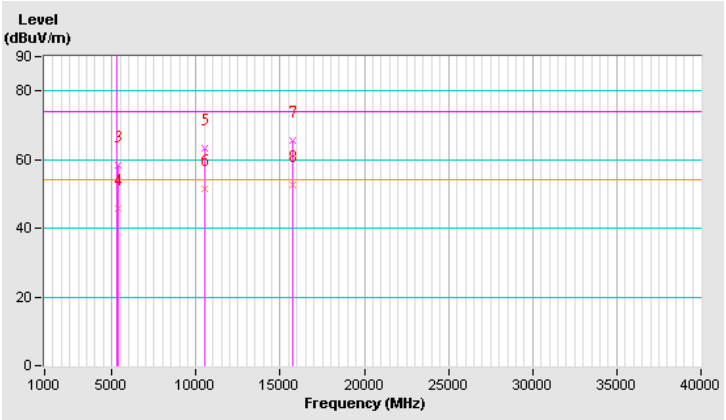


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	*5260.00	115.9 PK			1.84 V	316	76.20	39.70
2	*5260.00	106.0 AV			1.84 V	316	66.30	39.70
3	5350.00	58.2 PK	74.0	-15.8	1.96 V	327	52.10	6.10
4	5350.00	45.8 AV	54.0	-8.2	1.96 V	327	39.70	6.10
5	#10520.00	63.4 PK	74.0	-10.6	1.15 V	283	44.20	19.20
6	#10520.00	51.5 AV	54.0	-2.5	1.15 V	283	32.30	19.20
7	15780.00	65.6 PK	74.0	-8.4	1.87 V	64	47.50	18.10
8	15780.00	52.5 AV	54.0	-1.5	1.87 V	64	34.40	18.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

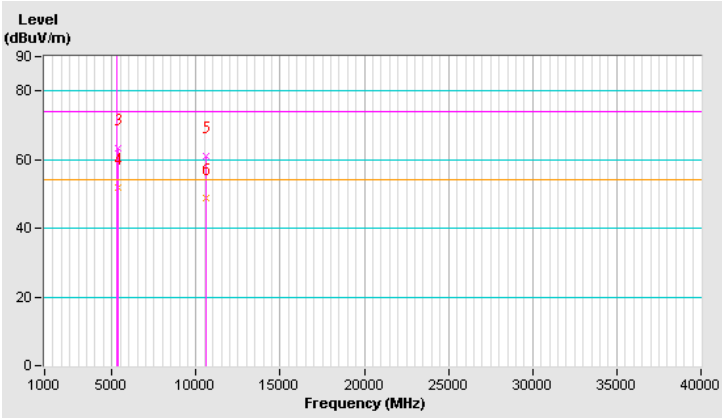


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	113.5 PK			1.81 H	335	73.80	39.70
2	*5300.00	103.2 AV			1.81 H	335	63.50	39.70
3	5350.00	63.3 PK	74.0	-10.7	1.71 H	335	57.20	6.10
4	5350.00	52.0 AV	54.0	-2.0	1.71 H	335	45.90	6.10
5	10600.00	61.1 PK	74.0	-12.9	1.24 H	285	42.00	19.10
6	10600.00	49.0 AV	54.0	-5.0	1.24 H	285	29.90	19.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

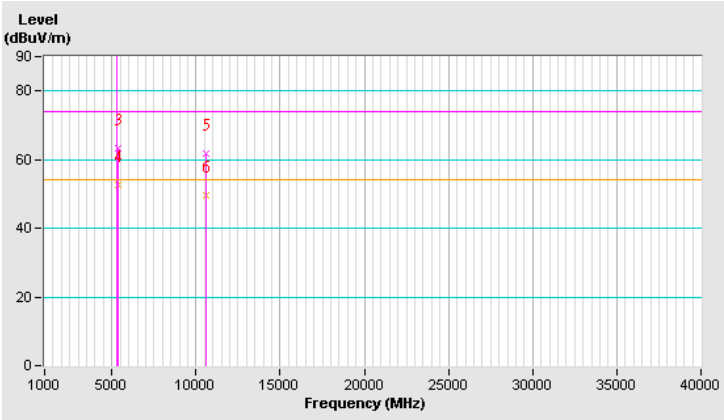


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	114.3 PK			1.84 V	313	74.60	39.70
2	*5300.00	104.0 AV			1.84 V	313	64.30	39.70
3	5350.00	63.4 PK	74.0	-10.6	1.80 V	325	57.30	6.10
4	5350.00	52.5 AV	54.0	-1.5	1.80 V	325	46.40	6.10
5	10600.00	61.8 PK	74.0	-12.2	2.44 V	283	42.70	19.10
6	10600.00	49.5 AV	54.0	-4.5	2.44 V	283	30.40	19.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

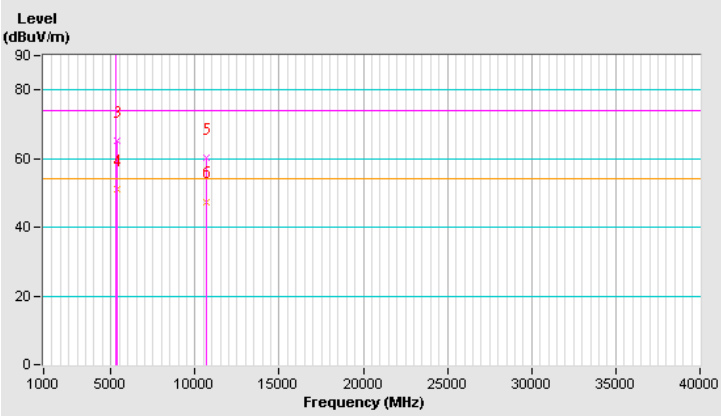


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	112.3 PK			1.94 H	335	72.60	39.70
2	*5320.00	102.1 AV			1.94 H	335	62.40	39.70
3	5370.00	65.1 PK	74.0	-8.9	1.90 H	336	58.90	6.20
4	5370.00	51.2 AV	54.0	-2.8	1.90 H	336	45.00	6.20
5	10640.00	60.1 PK	74.0	-13.9	1.83 H	98	41.20	18.90
6	10640.00	47.5 AV	54.0	-6.5	1.83 H	98	28.60	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

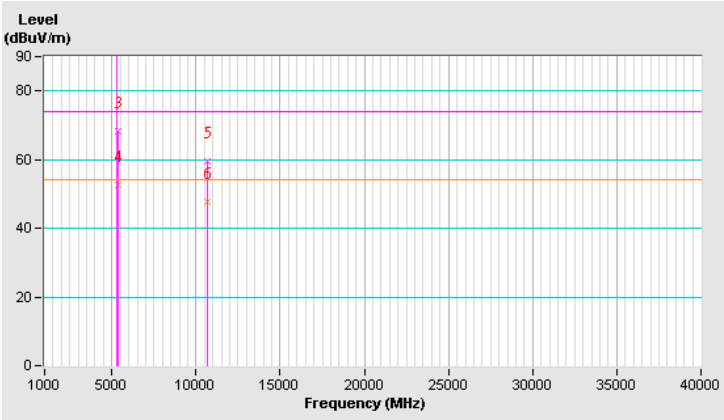


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	114.0 PK			1.74 V	314	74.30	39.70
2	*5320.00	103.5 AV			1.74 V	314	63.80	39.70
3	5370.00	68.2 PK	74.0	-5.8	1.98 V	314	62.00	6.20
4	5370.00	52.7 AV	54.0	-1.3	1.98 V	314	46.50	6.20
5	10640.00	59.4 PK	74.0	-14.6	1.58 V	205	40.50	18.90
6	10640.00	47.6 AV	54.0	-6.4	1.58 V	205	28.70	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

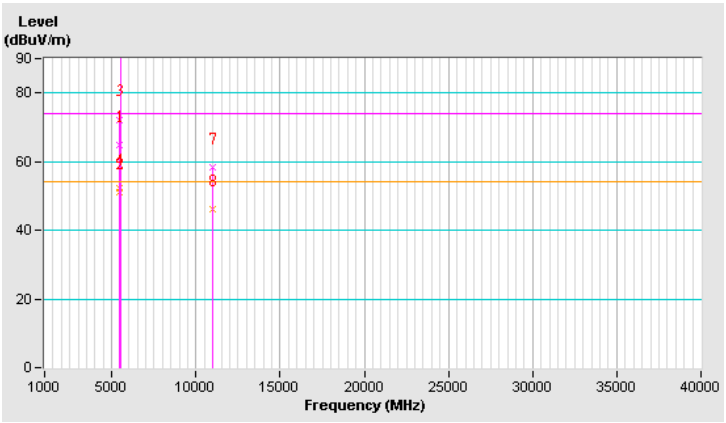


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	5456.00	65.0 PK	74.0	-9.0	1.79 H	336	58.60	6.40
2	5456.00	51.1 AV	54.0	-2.9	1.79 H	336	44.70	6.40
3	#5470.00	72.3 PK	74.0	-1.7	1.78 H	336	65.90	6.40
4	#5470.00	52.3 AV	54.0	-1.7	1.78 H	336	45.90	6.40
5	*5500.00	112.3 PK			1.79 H	337	72.30	40.00
6	*5500.00	102.6 AV			1.79 H	337	62.60	40.00
7	11000.00	58.4 PK	74.0	-15.6	1.35 H	103	38.80	19.60
8	11000.00	46.3 AV	54.0	-7.7	1.35 H	103	26.70	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

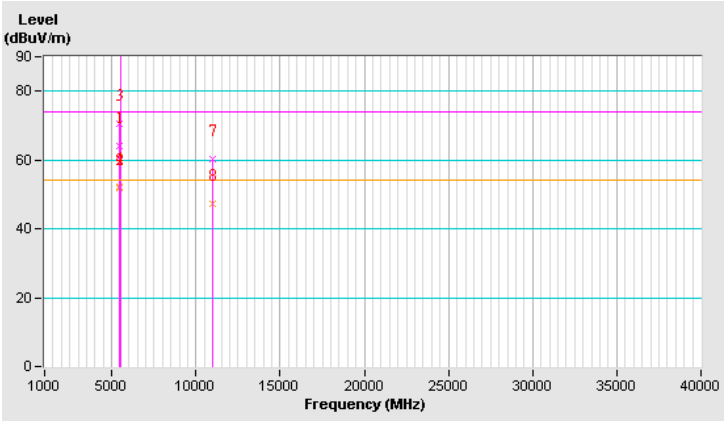


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	5456.00	64.0 PK	74.0	-10.0	2.03 V	318	57.60	6.40
2	5456.00	52.0 AV	54.0	-2.0	2.03 V	318	45.60	6.40
3	#5470.00	70.7 PK	74.0	-3.3	1.93 V	314	64.30	6.40
4	#5470.00	52.4 AV	54.0	-1.6	1.93 V	314	46.00	6.40
5	*5500.00	113.2 PK			1.76 V	324	73.20	40.00
6	*5500.00	103.5 AV			1.76 V	324	63.50	40.00
7	11000.00	60.1 PK	74.0	-13.9	1.14 V	190	40.50	19.60
8	11000.00	47.4 AV	54.0	-6.6	1.14 V	190	27.80	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

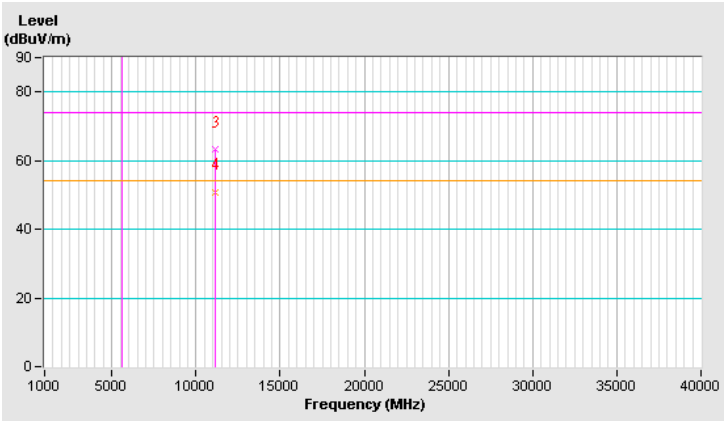


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	116.1 PK			1.77 H	346	76.00	40.10
2	*5580.00	105.7 AV			1.77 H	346	65.60	40.10
3	11160.00	63.1 PK	74.0	-10.9	1.00 H	113	43.90	19.20
4	11160.00	50.6 AV	54.0	-3.4	1.00 H	113	31.40	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

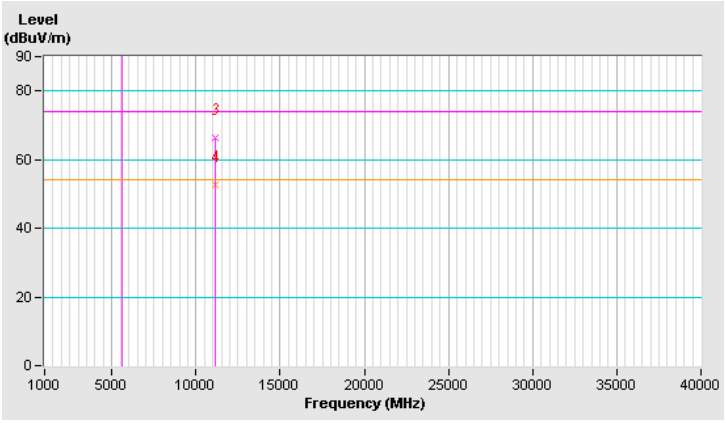


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	113.9 PK			1.72 V	42	73.80	40.10
2	*5580.00	103.7 AV			1.72 V	42	63.60	40.10
3	11160.00	66.2 PK	74.0	-7.8	1.81 V	191	47.00	19.20
4	11160.00	52.6 AV	54.0	-1.4	1.81 V	191	33.40	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

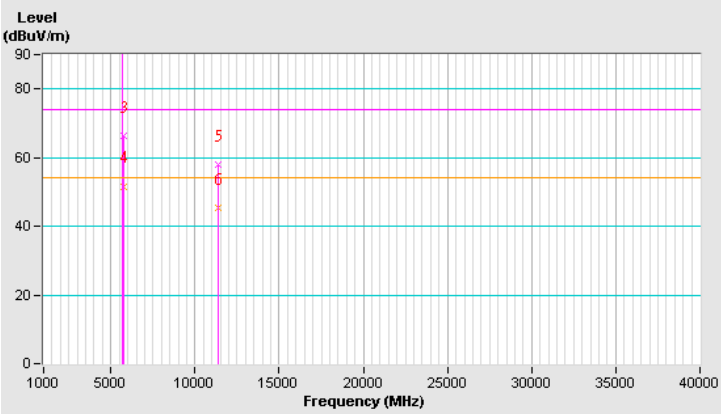


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	109.7 PK			1.82 H	342	69.40	40.30
2	*5700.00	100.0 AV			1.82 H	342	59.70	40.30
3	#5725.00	66.3 PK	74.0	-7.7	1.42 H	341	59.50	6.80
4	#5725.00	51.7 AV	54.0	-2.3	1.42 H	341	44.90	6.80
5	11400.00	58.0 PK	74.0	-16.0	1.28 H	265	39.50	18.50
6	11400.00	45.4 AV	54.0	-8.6	1.28 H	265	26.90	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

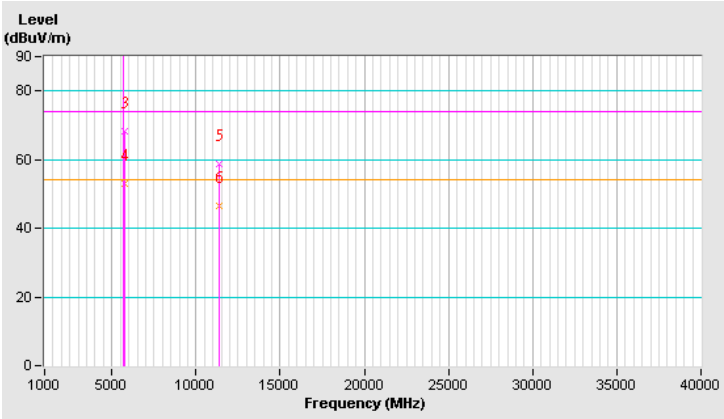


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	109.2 PK			1.75 V	46	68.90	40.30
2	*5700.00	99.1 AV			1.75 V	46	58.80	40.30
3	#5725.00	68.3 PK	74.0	-5.7	2.18 V	67	61.50	6.80
4	**#5725.00**	**53.0 AV**	**54.0**	**-1.0**	**2.18 V**	**67**	**46.20**	**6.80**
5	11400.00	58.9 PK	74.0	-15.1	1.14 V	260	40.40	18.50
6	11400.00	46.6 AV	54.0	-7.4	1.14 V	260	28.10	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



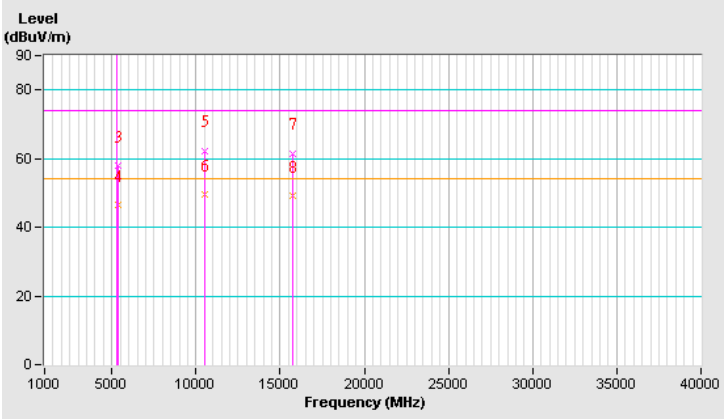
802.11n (HT20)

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

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	*5260.00	114.1 PK			1.93 H	327	74.40	39.70
2	*5260.00	104.4 AV			1.93 H	327	64.70	39.70
3	5350.00	57.9 PK	74.0	-16.1	2.00 H	332	51.80	6.10
4	5350.00	46.4 AV	54.0	-7.6	2.00 H	332	40.30	6.10
5	#10520.00	62.4 PK	74.0	-11.6	1.97 H	99	43.20	19.20
6	#10520.00	49.5 AV	54.0	-4.5	1.97 H	99	30.30	19.20
7	15780.00	61.6 PK	74.0	-12.4	1.31 H	187	43.50	18.10
8	15780.00	49.2 AV	54.0	-4.8	1.31 H	187	31.10	18.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

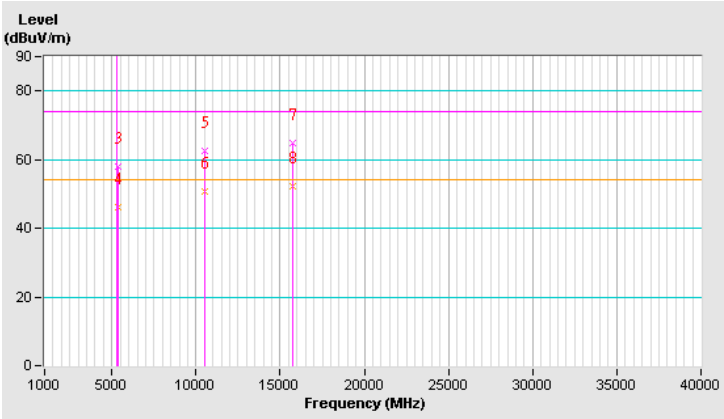


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	*5260.00	116.8 PK			1.85 V	319	77.10	39.70
2	*5260.00	106.9 AV			1.85 V	319	67.20	39.70
3	5350.00	57.8 PK	74.0	-16.2	1.75 V	332	51.70	6.10
4	5350.00	46.0 AV	54.0	-8.0	1.75 V	332	39.90	6.10
5	#10520.00	62.7 PK	74.0	-11.3	1.96 V	281	43.50	19.20
6	#10520.00	50.8 AV	54.0	-3.2	1.96 V	281	31.60	19.20
7	15780.00	64.8 PK	74.0	-9.2	1.95 V	204	46.70	18.10
8	15780.00	52.2 AV	54.0	-1.8	1.95 V	204	34.10	18.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

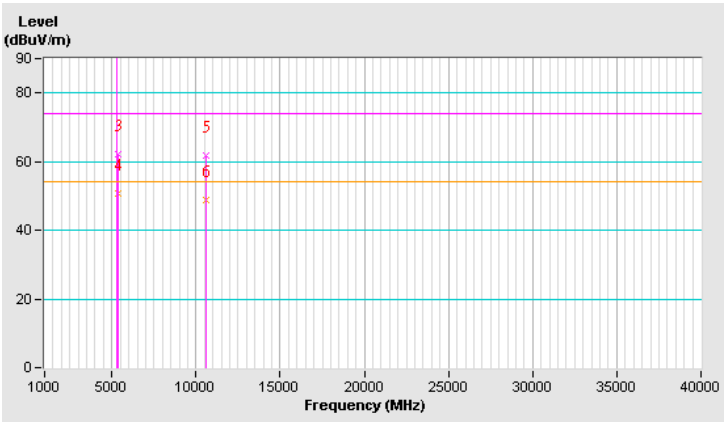


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	112.1 PK			1.57 H	332	72.40	39.70
2	*5300.00	102.7 AV			1.57 H	332	63.00	39.70
3	5350.00	62.3 PK	74.0	-11.7	1.77 H	334	56.20	6.10
4	5350.00	50.9 AV	54.0	-3.1	1.77 H	334	44.80	6.10
5	10600.00	61.6 PK	74.0	-12.4	1.94 H	100	42.50	19.10
6	10600.00	48.8 AV	54.0	-5.2	1.94 H	100	29.70	19.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

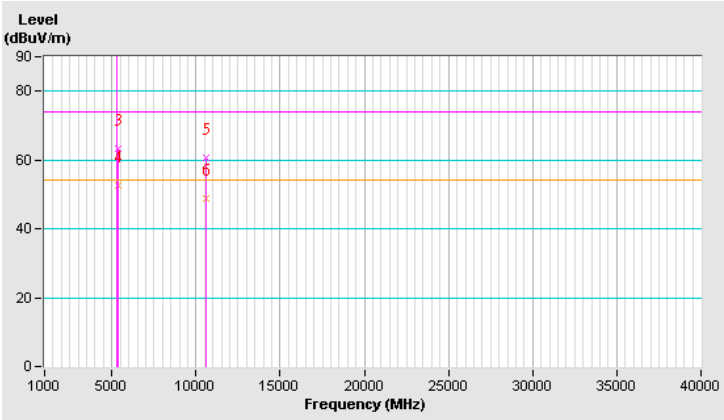


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	113.7 PK			1.42 V	317	74.00	39.70
2	*5300.00	103.8 AV			1.42 V	317	64.10	39.70
3	5350.00	63.4 PK	74.0	-10.6	1.90 V	346	57.30	6.10
4	5350.00	52.5 AV	54.0	-1.5	1.90 V	346	46.40	6.10
5	10600.00	60.7 PK	74.0	-13.3	1.63 V	328	41.60	19.10
6	10600.00	48.8 AV	54.0	-5.2	1.63 V	328	29.70	19.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

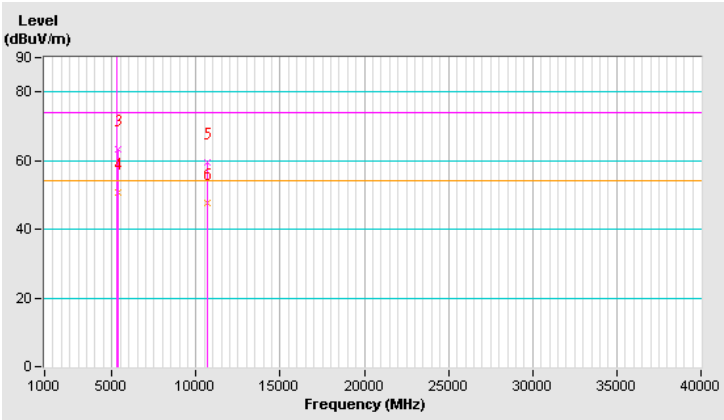


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	112.4 PK			1.88 H	335	72.70	39.70
2	*5320.00	101.8 AV			1.88 H	335	62.10	39.70
3	5370.00	63.3 PK	74.0	-10.7	1.91 H	337	57.10	6.20
4	5370.00	50.6 AV	54.0	-3.4	1.91 H	337	44.40	6.20
5	10640.00	59.6 PK	74.0	-14.4	1.14 H	283	40.70	18.90
6	10640.00	47.5 AV	54.0	-6.5	1.14 H	283	28.60	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

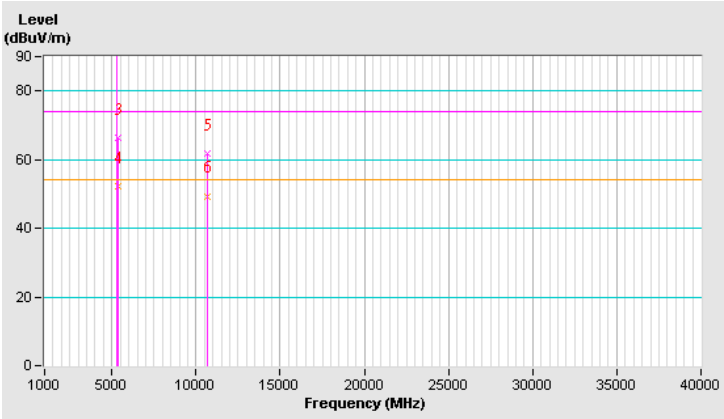


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	113.3 PK			1.43 V	321	73.60	39.70
2	*5320.00	103.5 AV			1.43 V	321	63.80	39.70
3	5370.00	66.5 PK	74.0	-7.5	1.88 V	322	60.30	6.20
4	5370.00	52.2 AV	54.0	-1.8	1.88 V	322	46.00	6.20
5	10640.00	61.6 PK	74.0	-12.4	1.00 V	281	42.70	18.90
6	10640.00	49.4 AV	54.0	-4.6	1.00 V	281	30.50	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

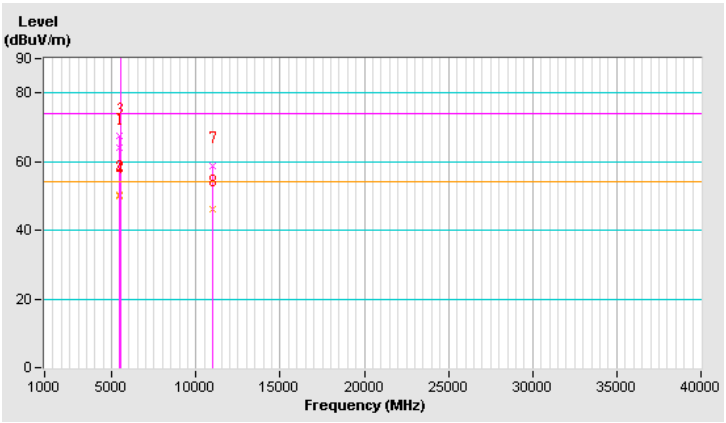


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	5456.00	63.9 PK	74.0	-10.1	1.84 H	348	57.50	6.40
2	5456.00	50.3 AV	54.0	-3.7	1.84 H	348	43.90	6.40
3	#5470.00	67.3 PK	74.0	-6.7	2.19 H	20	60.90	6.40
4	#5470.00	50.0 AV	54.0	-4.0	2.19 H	20	43.60	6.40
5	*5500.00	112.5 PK			1.90 H	347	72.50	40.00
6	*5500.00	102.1 AV			1.90 H	347	62.10	40.00
7	11000.00	58.7 PK	74.0	-15.3	1.39 H	241	39.10	19.60
8	11000.00	46.3 AV	54.0	-7.7	1.39 H	241	26.70	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

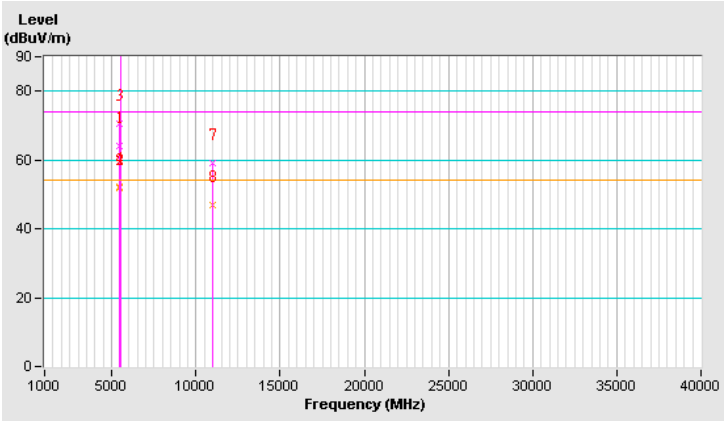


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	5456.00	63.9 PK	74.0	-10.1	1.69 V	332	57.50	6.40
2	5456.00	51.7 AV	54.0	-2.3	1.69 V	332	45.30	6.40
3	#5470.00	70.4 PK	74.0	-3.6	1.93 V	349	64.00	6.40
4	#5470.00	52.2 AV	54.0	-1.8	1.93 V	349	45.80	6.40
5	*5500.00	108.0 PK			1.67 V	177	68.00	40.00
6	*5500.00	98.0 AV			1.67 V	177	58.00	40.00
7	11000.00	59.1 PK	74.0	-14.9	1.20 V	341	39.50	19.60
8	11000.00	46.9 AV	54.0	-7.1	1.20 V	341	27.30	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

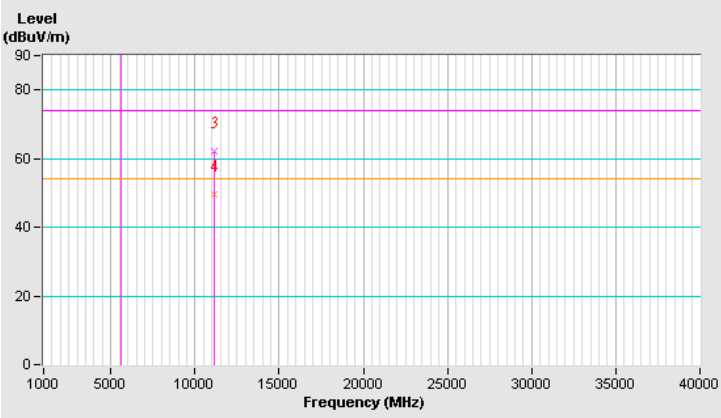


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	116.1 PK			1.73 H	346	76.00	40.10
2	*5580.00	105.4 AV			1.73 H	346	65.30	40.10
3	11160.00	62.3 PK	74.0	-11.7	1.05 H	125	43.10	19.20
4	11160.00	49.6 AV	54.0	-4.4	1.05 H	125	30.40	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

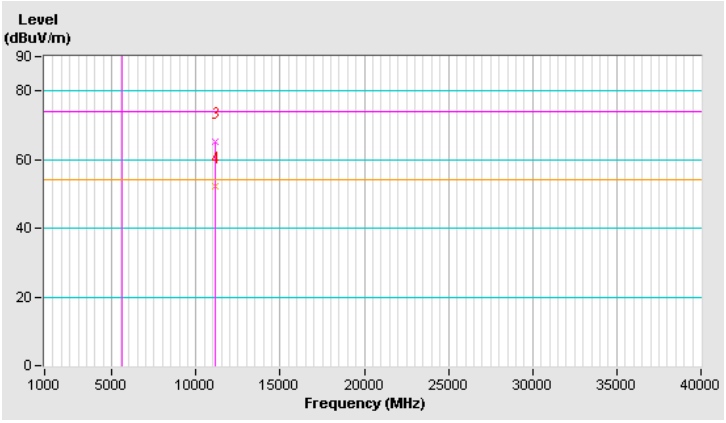


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	116.7 PK			1.88 V	329	76.60	40.10
2	*5580.00	106.2 AV			1.88 V	329	66.10	40.10
3	11160.00	65.4 PK	74.0	-8.6	1.00 V	55	46.20	19.20
4	11160.00	52.2 AV	54.0	-1.8	1.00 V	55	33.00	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

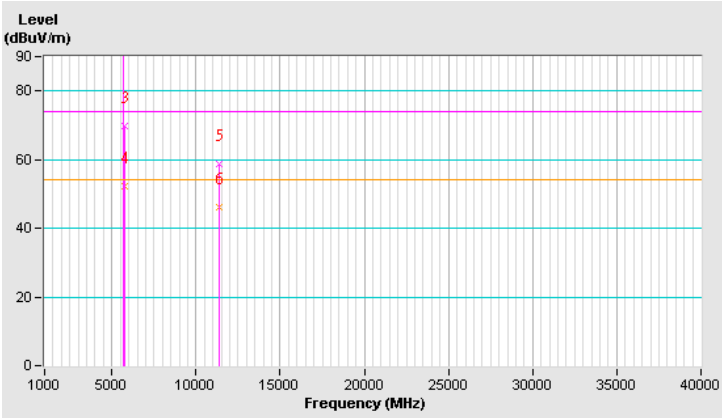


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	110.3 PK			1.93 H	344	70.00	40.30
2	*5700.00	100.1 AV			1.93 H	344	59.80	40.30
3	#5725.00	69.7 PK	74.0	-4.3	1.56 H	324	62.90	6.80
4	#5725.00	52.1 AV	54.0	-1.9	1.56 H	324	45.30	6.80
5	11400.00	58.8 PK	74.0	-15.2	1.17 H	313	40.30	18.50
6	11400.00	46.2 AV	54.0	-7.8	1.17 H	313	27.70	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

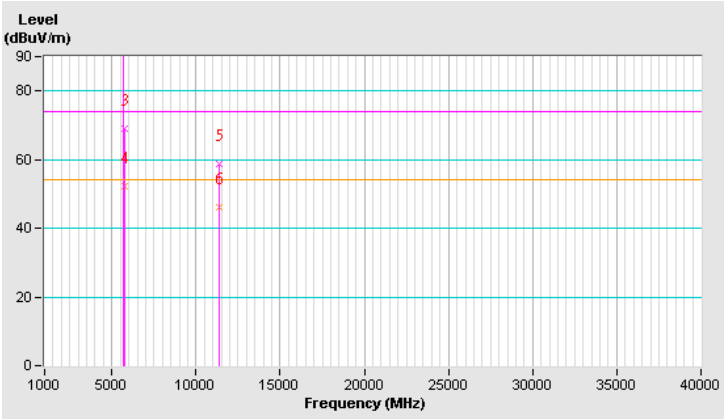


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	109.9 PK			1.75 V	45	69.60	40.30
2	*5700.00	99.6 AV			1.75 V	45	59.30	40.30
3	#5725.00	68.9 PK	74.0	-5.1	1.32 V	281	62.10	6.80
4	#5725.00	52.3 AV	54.0	-1.7	1.32 V	281	45.50	6.80
5	11400.00	58.7 PK	74.0	-15.3	1.51 V	61	40.20	18.50
6	11400.00	46.2 AV	54.0	-7.8	1.51 V	61	27.70	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



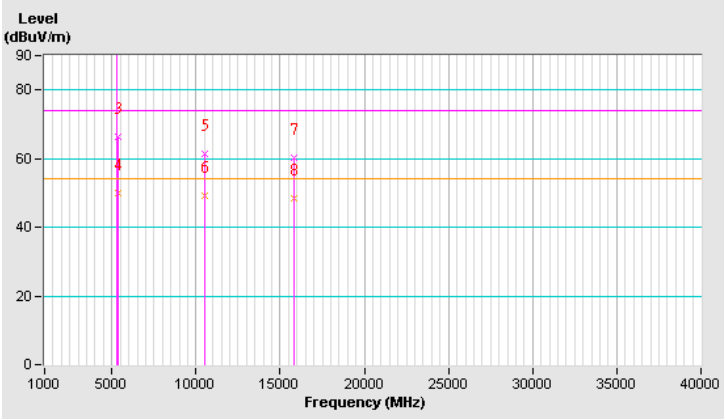
802.11n (HT40)

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

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	111.6 PK			1.74 H	330	71.90	39.70
2	*5270.00	101.6 AV			1.74 H	330	61.90	39.70
3	5350.00	66.4 PK	74.0	-7.6	1.91 H	334	60.30	6.10
4	5350.00	49.8 AV	54.0	-4.2	1.91 H	334	43.70	6.10
5	#10540.00	61.5 PK	74.0	-12.5	1.10 H	108	42.30	19.20
6	#10540.00	49.2 AV	54.0	-4.8	1.10 H	108	30.00	19.20
7	15810.00	60.2 PK	74.0	-13.8	1.60 H	319	42.20	18.00
8	15810.00	48.5 AV	54.0	-5.5	1.60 H	319	30.50	18.00

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

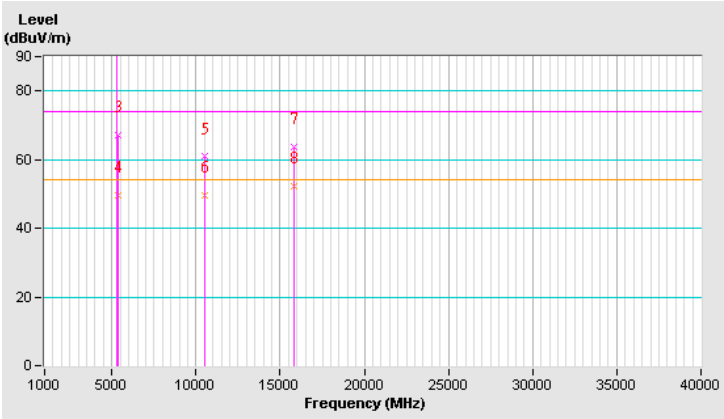


CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	112.7 PK			1.69 V	318	73.00	39.70
2	*5270.00	103.5 AV			1.69 V	318	63.80	39.70
3	5350.00	67.2 PK	74.0	-6.8	1.42 V	318	61.10	6.10
4	5350.00	49.4 AV	54.0	-4.6	1.42 V	318	43.30	6.10
5	#10540.00	60.8 PK	74.0	-13.2	2.44 V	123	41.60	19.20
6	#10540.00	49.7 AV	54.0	-4.3	2.44 V	123	30.50	19.20
7	15810.00	63.7 PK	74.0	-10.3	1.70 V	354	45.70	18.00
8	15810.00	52.2 AV	54.0	-1.8	1.70 V	354	34.20	18.00

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

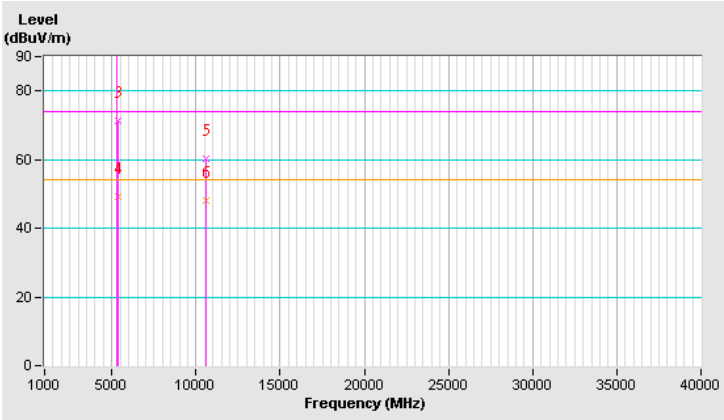


CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	105.5 PK			1.82 H	332	65.80	39.70
2	*5310.00	96.2 AV			1.82 H	332	56.50	39.70
3	5350.00	71.2 PK	74.0	-2.8	1.87 H	327	65.10	6.10
4	5350.00	49.3 AV	54.0	-4.7	1.87 H	327	43.20	6.10
5	10620.00	60.4 PK	74.0	-13.6	1.36 H	64	41.40	19.00
6	10620.00	47.9 AV	54.0	-6.1	1.36 H	64	28.90	19.00

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

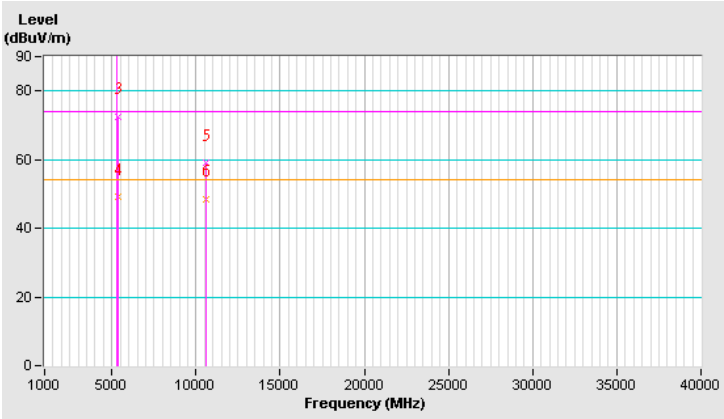


CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	107.9 PK			2.01 V	345	68.20	39.70
2	*5310.00	98.0 AV			2.01 V	345	58.30	39.70
3	5350.00	72.3 PK	74.0	-1.7	1.80 V	315	66.20	6.10
4	5350.00	49.0 AV	54.0	-5.0	1.80 V	315	42.90	6.10
5	10620.00	58.9 PK	74.0	-15.1	1.74 V	216	39.90	19.00
6	10620.00	48.4 AV	54.0	-5.6	1.74 V	216	29.40	19.00

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

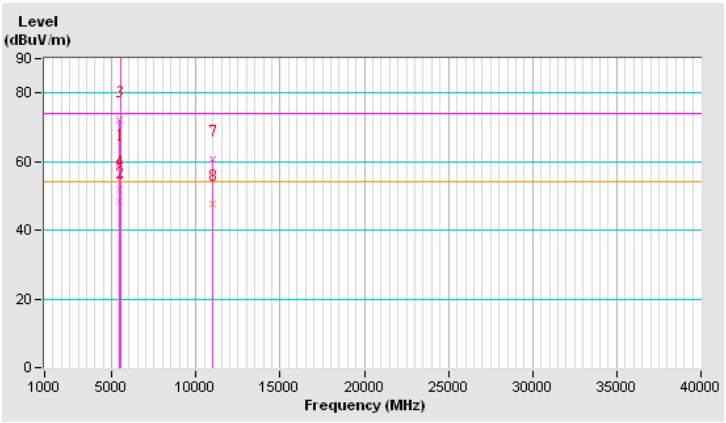


CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.5 PK	74.0	-14.5	1.79 H	329	53.10	6.40
2	5460.00	48.3 AV	54.0	-5.7	1.79 H	329	41.90	6.40
3	#5470.00	72.1 PK	74.0	-1.9	1.80 H	346	65.70	6.40
4	#5470.00	51.8 AV	54.0	-2.2	1.80 H	346	45.40	6.40
5	*5510.00	104.6 PK			1.67 H	345	64.60	40.00
6	*5510.00	94.6 AV			1.67 H	345	54.60	40.00
7	11020.00	60.8 PK	74.0	-13.2	1.44 H	111	41.40	19.40
8	11020.00	47.6 AV	54.0	-6.4	1.44 H	111	28.20	19.40

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

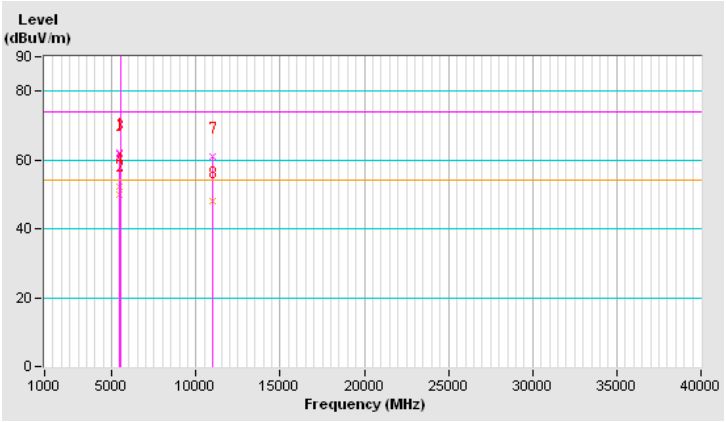


CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	62.3 PK	74.0	-11.7	1.85 V	330	55.90	6.40
2	5460.00	49.8 AV	54.0	-4.2	1.85 V	330	43.40	6.40
3	#5470.00	61.8 PK	74.0	-12.2	1.86 V	331	55.40	6.40
4	#5470.00	52.1 AV	54.0	-1.9	1.86 V	331	45.70	6.40
5	*5510.00	105.7 PK			1.93 V	333	65.70	40.00
6	*5510.00	95.7 AV			1.93 V	333	55.70	40.00
7	11020.00	61.1 PK	74.0	-12.9	1.30 V	175	41.70	19.40
8	11020.00	47.9 AV	54.0	-6.1	1.30 V	175	28.50	19.40

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

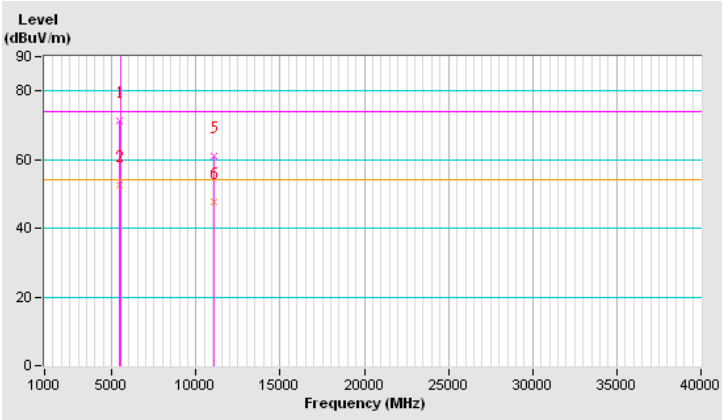


CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	71.3 PK	74.0	-2.7	1.71 H	346	64.90	6.40
2	#5470.00	52.7 AV	54.0	-1.3	1.71 H	346	46.30	6.40
3	*5550.00	112.1 PK			1.66 H	346	72.00	40.10
4	*5550.00	101.1 AV			1.66 H	346	61.00	40.10
5	11100.00	60.9 PK	74.0	-13.1	1.80 H	113	42.00	18.90
6	11100.00	47.7 AV	54.0	-6.3	1.80 H	113	28.80	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

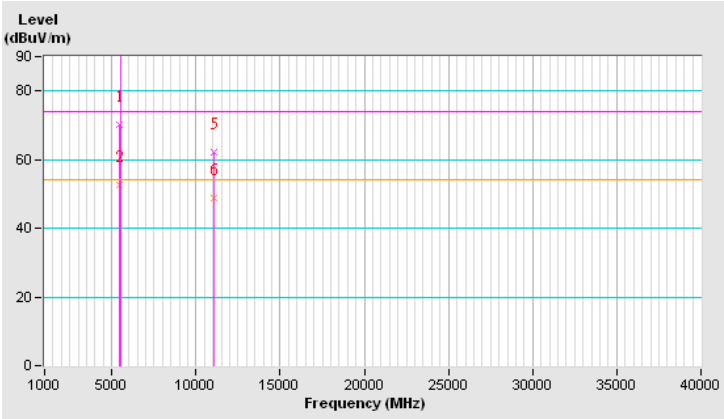


CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	70.2 PK	74.0	-3.8	1.94 V	0	63.80	6.40
2	#5470.00	52.6 AV	54.0	-1.4	1.94 V	0	46.20	6.40
3	*5550.00	113.0 PK			1.81 V	331	72.90	40.10
4	*5550.00	102.7 AV			1.81 V	331	62.60	40.10
5	11100.00	62.1 PK	74.0	-11.9	1.74 V	189	43.20	18.90
6	11100.00	48.9 AV	54.0	-5.1	1.74 V	189	30.00	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

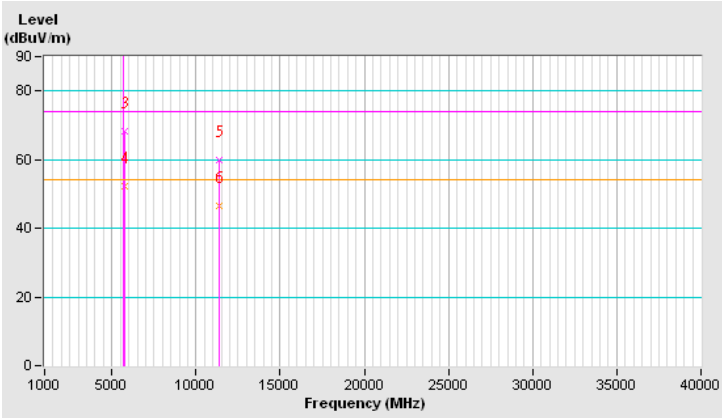


CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	108.3 PK			1.59 H	345	68.10	40.20
2	*5670.00	98.5 AV			1.59 H	345	58.30	40.20
3	#5725.00	68.4 PK	74.0	-5.6	1.82 H	343	61.60	6.80
4	#5725.00	52.1 AV	54.0	-1.9	1.82 H	343	45.30	6.80
5	11340.00	59.8 PK	74.0	-14.2	1.33 H	149	40.60	19.20
6	11340.00	46.7 AV	54.0	-7.3	1.33 H	149	27.50	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

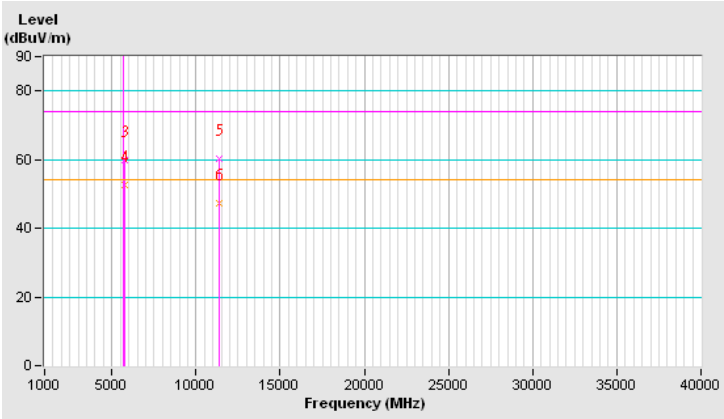


CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	A		

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	109.8 PK			1.84 V	325	69.60	40.20
2	*5670.00	99.5 AV			1.84 V	325	59.30	40.20
3	#5725.00	59.9 PK	74.0	-14.1	1.82 V	326	53.10	6.80
4	#5725.00	52.6 AV	54.0	-1.4	1.82 V	326	45.80	6.80
5	11340.00	60.2 PK	74.0	-13.8	1.10 V	299	41.00	19.20
6	11340.00	47.2 AV	54.0	-6.8	1.10 V	299	28.00	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



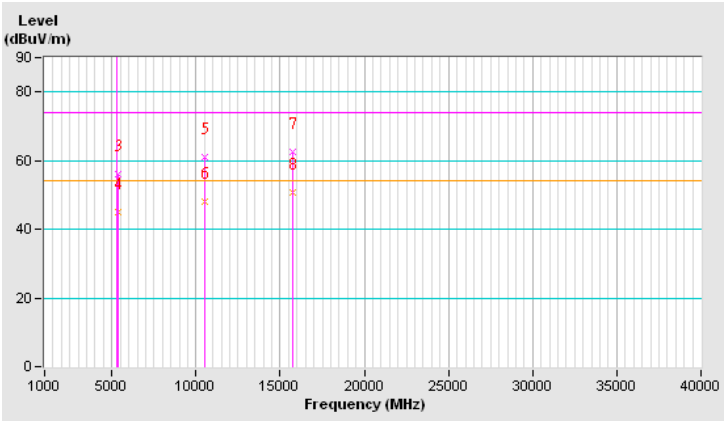
802.11a

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

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	*5260.00	111.2 PK			1.36 H	0	71.50	39.70
2	*5260.00	101.4 AV			1.36 H	0	61.70	39.70
3	5350.00	56.0 PK	74.0	-18.0	1.36 H	100	49.90	6.10
4	5350.00	45.0 AV	54.0	-9.0	1.36 H	100	38.90	6.10
5	#10520.00	61.1 PK	74.0	-12.9	1.91 H	322	41.90	19.20
6	#10520.00	48.2 AV	54.0	-5.8	1.91 H	322	29.00	19.20
7	15780.00	62.7 PK	74.0	-11.3	1.78 H	147	44.60	18.10
8	15780.00	50.8 AV	54.0	-3.2	1.78 H	147	32.70	18.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

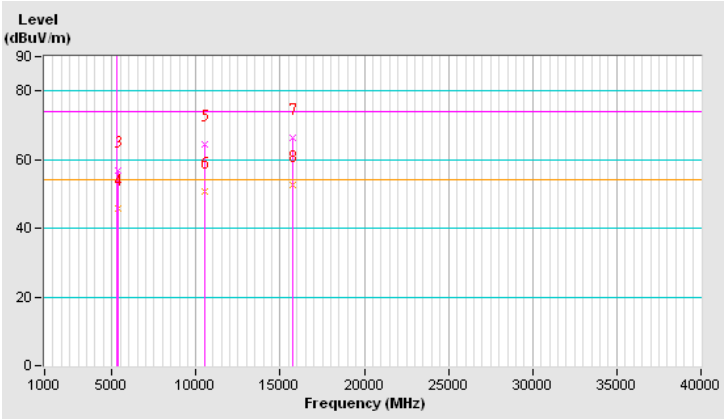


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	*5260.00	117.4 PK			1.88 V	54	77.70	39.70
2	*5260.00	107.4 AV			1.88 V	54	67.70	39.70
3	5350.00	56.7 PK	74.0	-17.3	1.90 V	321	50.60	6.10
4	5350.00	45.6 AV	54.0	-8.4	1.90 V	321	39.50	6.10
5	#10520.00	64.5 PK	74.0	-9.5	1.94 V	16	45.30	19.20
6	#10520.00	50.7 AV	54.0	-3.3	1.94 V	16	31.50	19.20
7	15780.00	66.4 PK	74.0	-7.6	1.79 V	164	48.30	18.10
8	15780.00	52.6 AV	54.0	-1.4	1.79 V	164	34.50	18.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

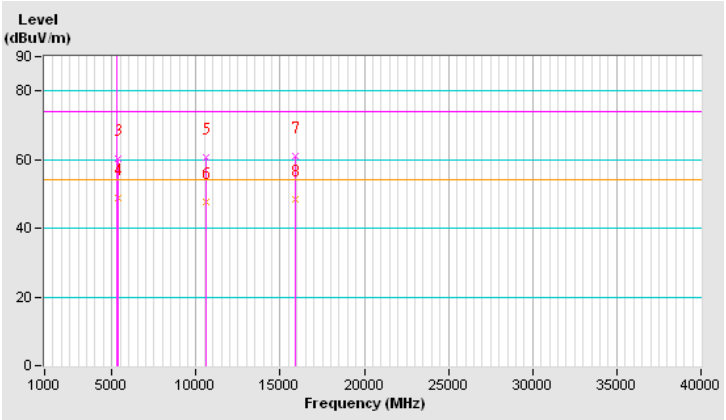


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	110.7 PK			1.54 H	356	71.00	39.70
2	*5300.00	100.6 AV			1.54 H	356	60.90	39.70
3	5350.00	60.2 PK	74.0	-13.8	1.40 H	0	54.10	6.10
4	5350.00	48.8 AV	54.0	-5.2	1.40 H	0	42.70	6.10
5	10600.00	60.7 PK	74.0	-13.3	1.99 H	19	41.60	19.10
6	10600.00	47.6 AV	54.0	-6.4	1.99 H	19	28.50	19.10
7	15900.00	61.0 PK	74.0	-13.0	1.70 H	135	43.10	17.90
8	15900.00	48.5 AV	54.0	-5.5	1.70 H	135	30.60	17.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

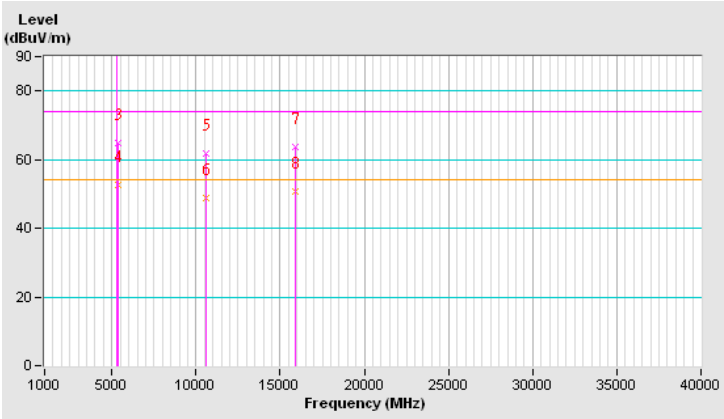


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	115.8 PK			1.73 V	36	76.10	39.70
2	*5300.00	104.9 AV			1.73 V	36	65.20	39.70
3	5360.00	64.9 PK	74.0	-9.1	1.71 V	173	58.80	6.10
4	5360.00	52.6 AV	54.0	-1.4	1.71 V	173	46.50	6.10
5	10600.00	61.9 PK	74.0	-12.1	1.95 V	344	42.80	19.10
6	10600.00	48.7 AV	54.0	-5.3	1.95 V	344	29.60	19.10
7	15900.00	63.8 PK	74.0	-10.2	1.82 V	163	45.90	17.90
8	15900.00	50.6 AV	54.0	-3.4	1.82 V	163	32.70	17.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

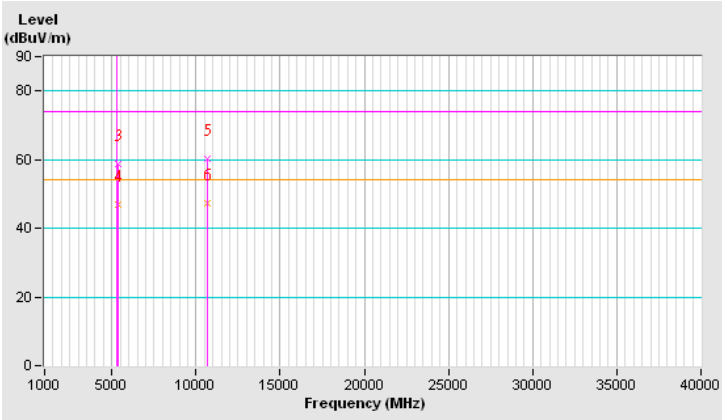


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	108.2 PK			1.80 H	0	68.50	39.70
2	*5320.00	98.3 AV			1.80 H	0	58.60	39.70
3	5370.00	58.9 PK	74.0	-15.1	1.82 H	0	52.70	6.20
4	5370.00	46.9 AV	54.0	-7.1	1.82 H	0	40.70	6.20
5	10640.00	60.3 PK	74.0	-13.7	1.70 H	156	41.40	18.90
6	10640.00	47.1 AV	54.0	-6.9	1.70 H	156	28.20	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

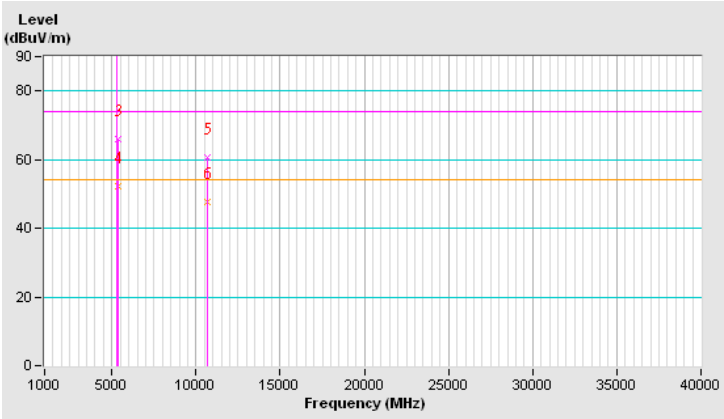


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	114.3 PK			1.86 V	46	74.60	39.70
2	*5320.00	104.2 AV			1.86 V	46	64.50	39.70
3	5350.00	66.0 PK	74.0	-8.0	1.94 V	306	59.90	6.10
4	5350.00	52.1 AV	54.0	-1.9	1.94 V	306	46.00	6.10
5	10640.00	60.7 PK	74.0	-13.3	2.01 V	19	41.80	18.90
6	10640.00	47.6 AV	54.0	-6.4	2.01 V	19	28.70	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

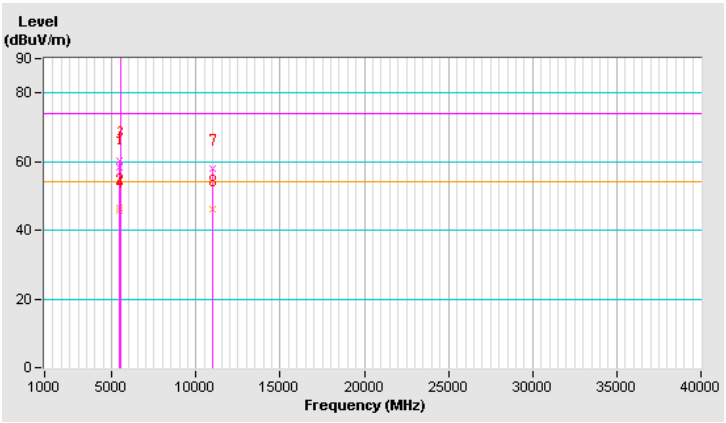


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	5452.00	58.2 PK	74.0	-15.8	1.41 H	46	51.80	6.40
2	5452.00	46.4 AV	54.0	-7.6	1.41 H	46	40.00	6.40
3	#5470.00	60.4 PK	74.0	-13.6	1.30 H	44	54.00	6.40
4	#5470.00	45.9 AV	54.0	-8.1	1.30 H	44	39.50	6.40
5	*5500.00	103.2 PK			1.79 H	2	63.20	40.00
6	*5500.00	93.6 AV			1.79 H	2	53.60	40.00
7	11000.00	58.0 PK	74.0	-16.0	1.40 H	349	38.40	19.60
8	11000.00	46.1 AV	54.0	-7.9	1.40 H	349	26.50	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

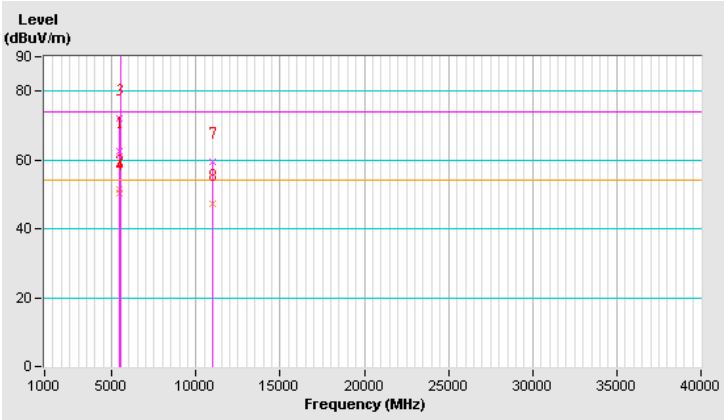


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	5452.00	62.6 PK	74.0	-11.4	1.91 V	155	56.20	6.40
2	5452.00	51.4 AV	54.0	-2.6	1.91 V	155	45.00	6.40
3	#5470.00	72.2 PK	74.0	-1.8	1.80 V	149	65.80	6.40
4	#5470.00	50.3 AV	54.0	-3.7	1.80 V	149	43.90	6.40
5	*5500.00	112.6 PK			1.72 V	178	72.60	40.00
6	*5500.00	102.7 AV			1.72 V	178	62.70	40.00
7	11000.00	59.4 PK	74.0	-14.6	1.12 V	208	39.80	19.60
8	11000.00	47.2 AV	54.0	-6.8	1.12 V	208	27.60	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

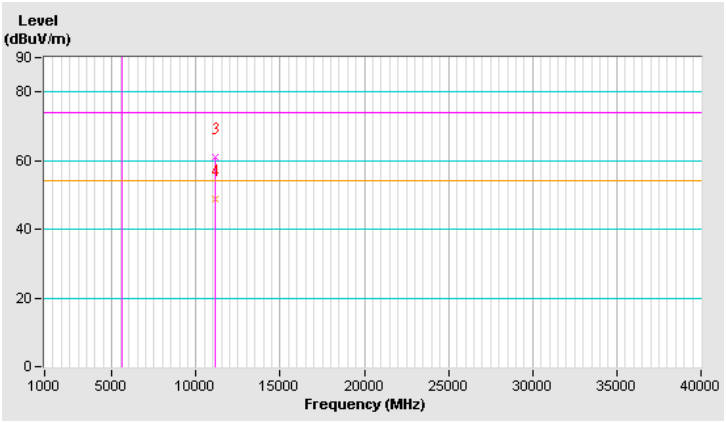


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	106.8 PK			1.21 H	48	66.70	40.10
2	*5580.00	96.7 AV			1.21 H	48	56.60	40.10
3	11160.00	61.2 PK	74.0	-12.8	1.11 H	135	42.00	19.20
4	11160.00	48.7 AV	54.0	-5.3	1.11 H	135	29.50	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

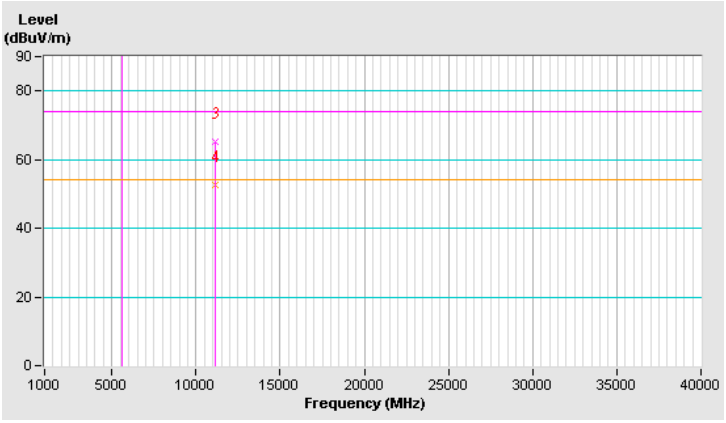


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	114.8 PK			1.68 V	176	74.70	40.10
2	*5580.00	105.2 AV			1.68 V	176	65.10	40.10
3	11160.00	65.3 PK	74.0	-8.7	1.22 V	70	46.10	19.20
4	11160.00	52.5 AV	54.0	-1.5	1.22 V	70	33.30	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

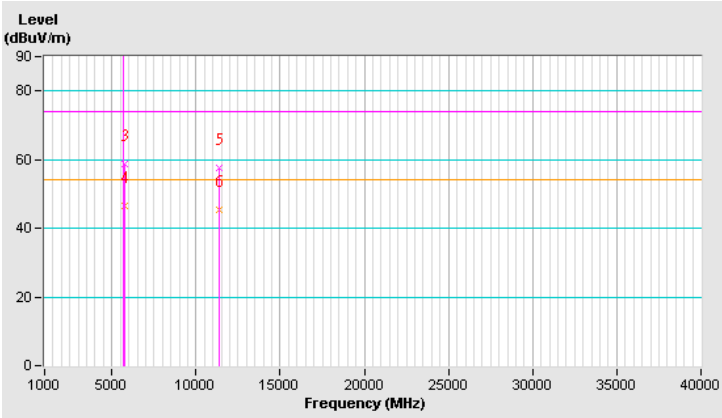


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	101.1 PK			1.00 H	149	60.80	40.30
2	*5700.00	91.8 AV			1.00 H	149	51.50	40.30
3	#5725.00	58.8 PK	74.0	-15.2	1.72 H	148	52.00	6.80
4	#5725.00	46.5 AV	54.0	-7.5	1.72 H	148	39.70	6.80
5	11400.00	57.7 PK	74.0	-16.3	1.17 H	96	39.20	18.50
6	11400.00	45.5 AV	54.0	-8.5	1.17 H	96	27.00	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

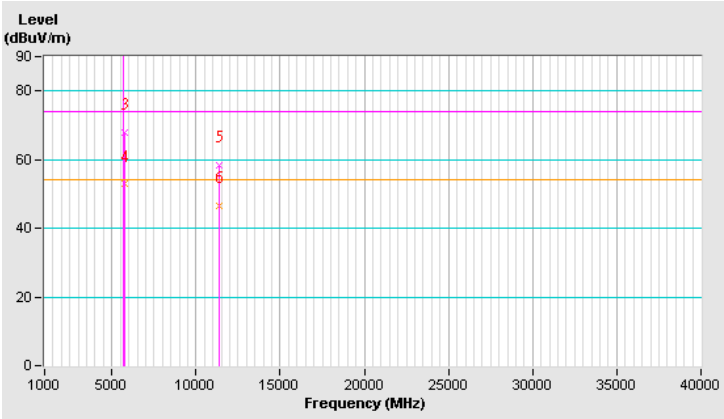


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	110.4 PK			1.58 V	152	70.10	40.30
2	*5700.00	100.2 AV			1.58 V	152	59.90	40.30
3	#5725.00	67.8 PK	74.0	-6.2	1.73 V	331	61.00	6.80
4	#5725.00	52.8 AV	54.0	-1.2	1.73 V	331	46.00	6.80
5	11400.00	58.2 PK	74.0	-15.8	1.31 V	190	39.70	18.50
6	11400.00	46.4 AV	54.0	-7.6	1.31 V	190	27.90	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



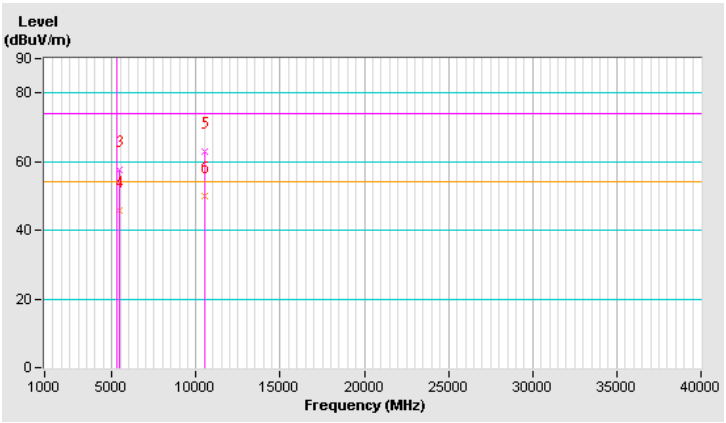
802.11n (HT20)

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

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	*5260.00	109.9 PK			1.32 H	103	70.20	39.70
2	*5260.00	99.1 AV			1.32 H	103	59.40	39.70
3	5456.00	57.6 PK	74.0	-16.4	1.23 H	84	51.20	6.40
4	5456.00	45.6 AV	54.0	-8.4	1.23 H	84	39.20	6.40
5	#10520.00	63.1 PK	74.0	-10.9	1.00 H	130	43.90	19.20
6	#10520.00	50.1 AV	54.0	-3.9	1.00 H	130	30.90	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

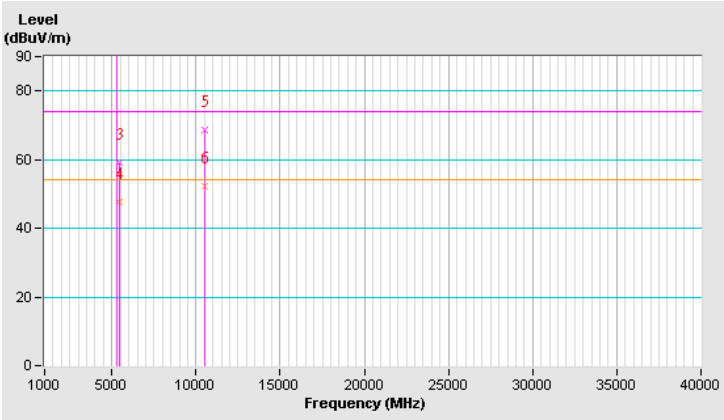


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	*5260.00	114.0 PK			1.43 V	160	74.30	39.70
2	*5260.00	103.8 AV			1.43 V	160	64.10	39.70
3	5456.00	59.0 PK	74.0	-15.0	1.42 V	176	52.60	6.40
4	5456.00	47.6 AV	54.0	-6.4	1.42 V	176	41.20	6.40
5	#10520.00	68.6 PK	74.0	-5.4	1.03 V	163	49.40	19.20
6	#10520.00	52.3 AV	54.0	-1.7	1.03 V	163	33.10	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

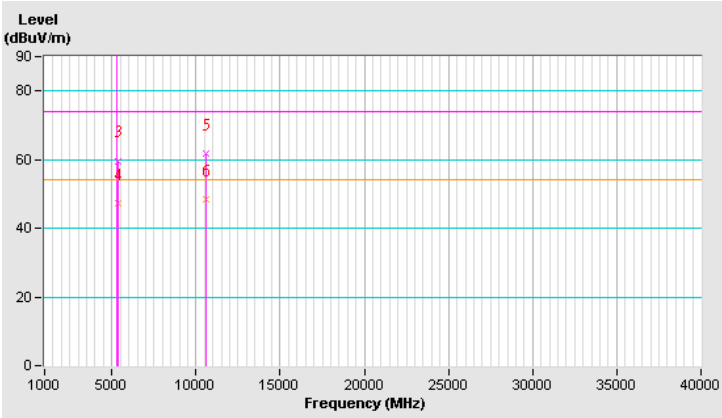


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	106.4 PK			1.64 H	355	66.70	39.70
2	*5300.00	96.2 AV			1.64 H	355	56.50	39.70
3	5350.00	59.7 PK	74.0	-14.3	1.68 H	354	53.60	6.10
4	5350.00	47.2 AV	54.0	-6.8	1.68 H	354	41.10	6.10
5	10600.00	61.9 PK	74.0	-12.1	1.46 H	241	42.80	19.10
6	10600.00	48.3 AV	54.0	-5.7	1.46 H	241	29.20	19.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

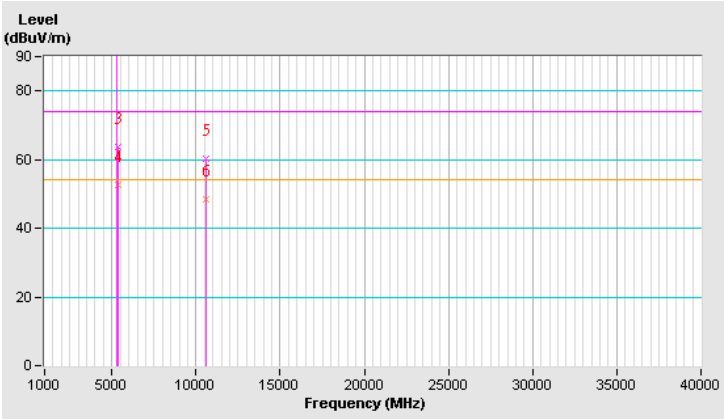


CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	111.2 PK			1.82 V	174	71.50	39.70
2	*5300.00	100.8 AV			1.82 V	174	61.10	39.70
3	5350.00	63.8 PK	74.0	-10.2	1.84 V	308	57.70	6.10
4	5350.00	52.6 AV	54.0	-1.4	1.84 V	308	46.50	6.10
5	10600.00	60.4 PK	74.0	-13.6	1.38 V	49	41.30	19.10
6	10600.00	48.3 AV	54.0	-5.7	1.38 V	49	29.20	19.10

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

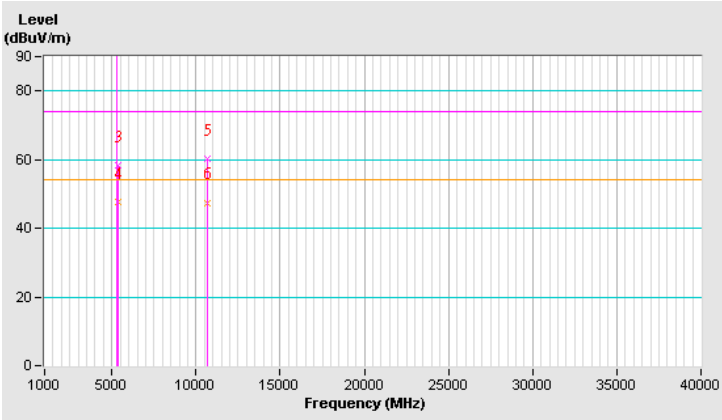


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	108.2 PK			1.37 H	4	68.50	39.70
2	*5320.00	98.3 AV			1.37 H	4	58.60	39.70
3	5360.00	58.3 PK	74.0	-15.7	1.65 H	3	52.20	6.10
4	5360.00	47.6 AV	54.0	-6.4	1.65 H	3	41.50	6.10
5	10640.00	60.2 PK	74.0	-13.8	1.28 H	281	41.30	18.90
6	10640.00	47.5 AV	54.0	-6.5	1.28 H	281	28.60	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

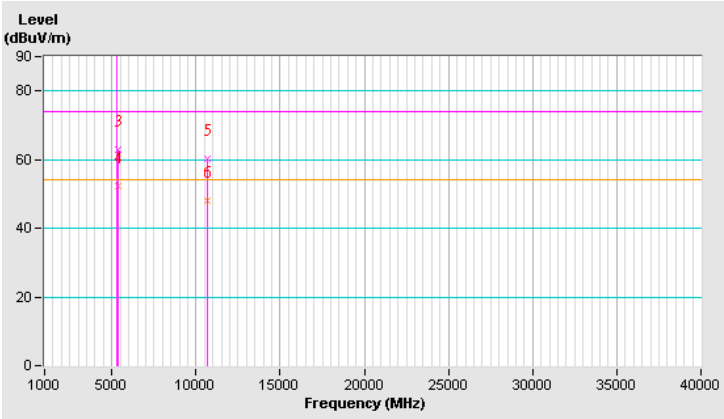


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	113.5 PK			1.80 V	186	73.80	39.70
2	*5320.00	103.0 AV			1.80 V	186	63.30	39.70
3	5360.00	63.0 PK	74.0	-11.0	2.07 V	307	56.90	6.10
4	5360.00	52.2 AV	54.0	-1.8	2.07 V	307	46.10	6.10
5	10640.00	60.2 PK	74.0	-13.8	1.00 V	304	41.30	18.90
6	10640.00	48.2 AV	54.0	-5.8	1.00 V	304	29.30	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

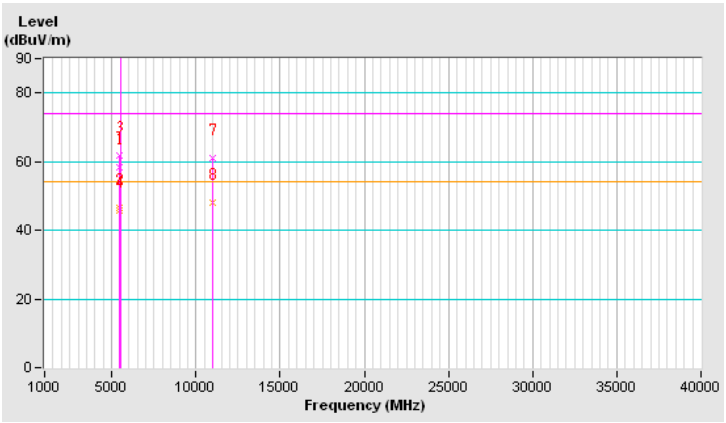


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	5455.00	58.4 PK	74.0	-15.6	1.58 H	50	52.00	6.40
2	5455.00	46.6 AV	54.0	-7.4	1.58 H	50	40.20	6.40
3	#5470.00	61.8 PK	74.0	-12.2	1.68 H	240	55.40	6.40
4	#5470.00	45.9 AV	54.0	-8.1	1.68 H	240	39.50	6.40
5	*5500.00	103.4 PK			1.48 H	41	63.40	40.00
6	*5500.00	93.9 AV			1.48 H	41	53.90	40.00
7	11000.00	61.0 PK	74.0	-13.0	1.50 H	344	41.40	19.60
8	11000.00	48.2 AV	54.0	-5.8	1.50 H	344	28.60	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

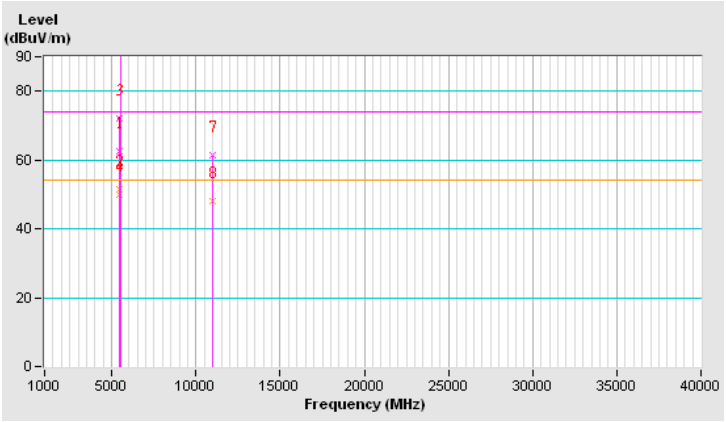


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	5455.00	62.6 PK	74.0	-11.4	1.79 V	304	56.20	6.40
2	5455.00	51.3 AV	54.0	-2.7	1.79 V	304	44.90	6.40
3	#5470.00	72.1 PK	74.0	-1.9	1.76 V	306	65.70	6.40
4	#5470.00	50.0 AV	54.0	-4.0	1.76 V	306	43.60	6.40
5	*5500.00	113.9 PK			1.78 V	38	73.90	40.00
6	*5500.00	103.5 AV			1.78 V	38	63.50	40.00
7	11000.00	61.4 PK	74.0	-12.6	1.22 V	218	41.80	19.60
8	11000.00	48.2 AV	54.0	-5.8	1.22 V	218	28.60	19.60

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

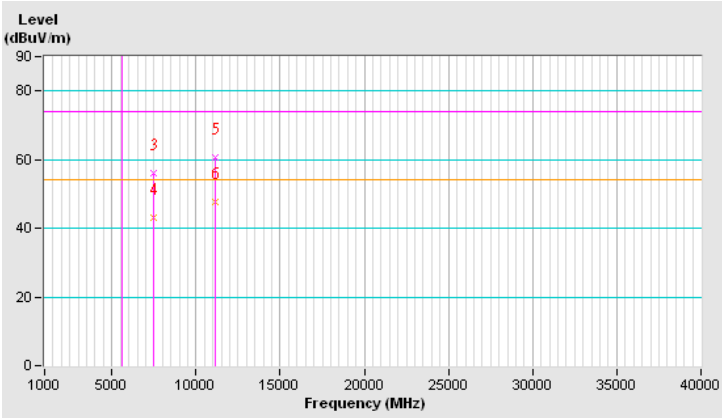


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	106.4 PK			1.08 H	38	66.30	40.10
2	*5580.00	96.4 AV			1.08 H	38	56.30	40.10
3	7440.00	55.9 PK	74.0	-18.1	1.23 H	172	43.50	12.40
4	7440.00	43.0 AV	54.0	-11.0	1.23 H	172	30.60	12.40
5	11160.00	60.7 PK	74.0	-13.3	1.00 H	121	41.50	19.20
6	11160.00	47.7 AV	54.0	-6.3	1.00 H	121	28.50	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

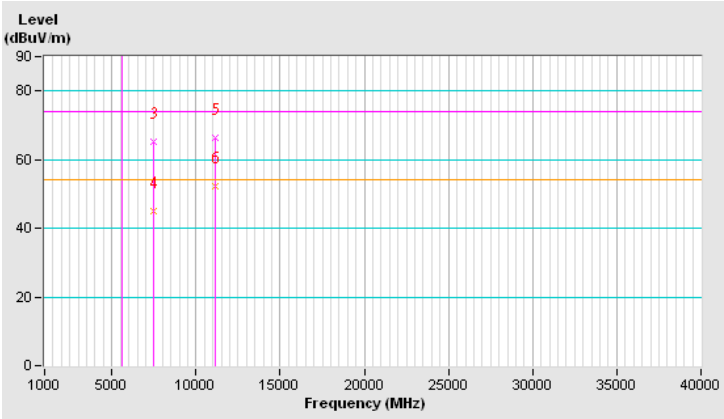


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	115.7 PK			1.68 V	37	75.60	40.10
2	*5580.00	105.5 AV			1.68 V	37	65.40	40.10
3	7440.00	65.2 PK	74.0	-8.8	1.52 V	208	52.80	12.40
4	7440.00	44.9 AV	54.0	-9.1	1.52 V	208	32.50	12.40
5	11160.00	66.5 PK	74.0	-7.5	1.28 V	215	47.30	19.20
6	11160.00	52.1 AV	54.0	-1.9	1.28 V	215	32.90	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

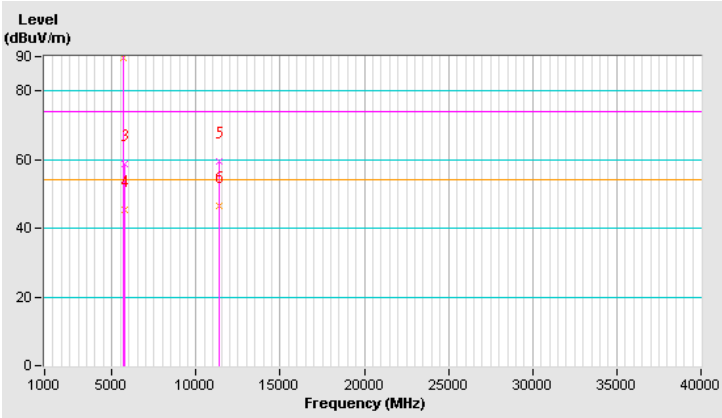


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	99.4 PK			1.13 H	178	59.10	40.30
2	*5700.00	89.6 AV			1.13 H	178	49.30	40.30
3	#5725.00	58.9 PK	74.0	-15.1	1.48 H	203	52.10	6.80
4	#5725.00	45.4 AV	54.0	-8.6	1.48 H	203	38.60	6.80
5	11400.00	59.5 PK	74.0	-14.5	1.27 H	100	41.00	18.50
6	11400.00	46.5 AV	54.0	-7.5	1.27 H	100	28.00	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

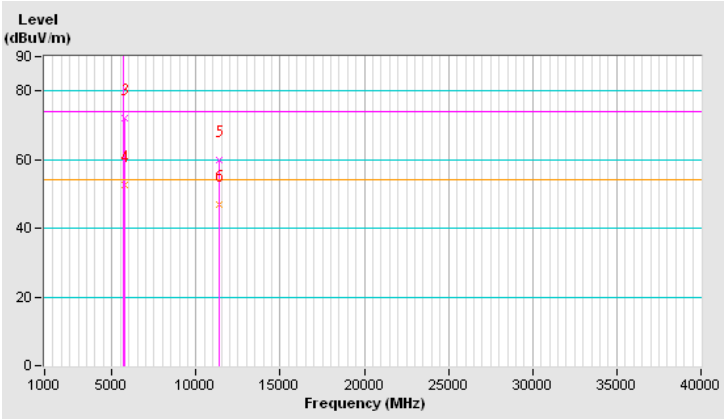


CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	110.4 PK			1.90 V	312	70.10	40.30
2	*5700.00	100.5 AV			1.90 V	312	60.20	40.30
3	#5725.00	72.1 PK	74.0	-1.9	1.87 V	319	65.30	6.80
4	#5725.00	52.7 AV	54.0	-1.3	1.87 V	319	45.90	6.80
5	11400.00	59.9 PK	74.0	-14.1	1.28 V	188	41.40	18.50
6	11400.00	46.8 AV	54.0	-7.2	1.28 V	188	28.30	18.50

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



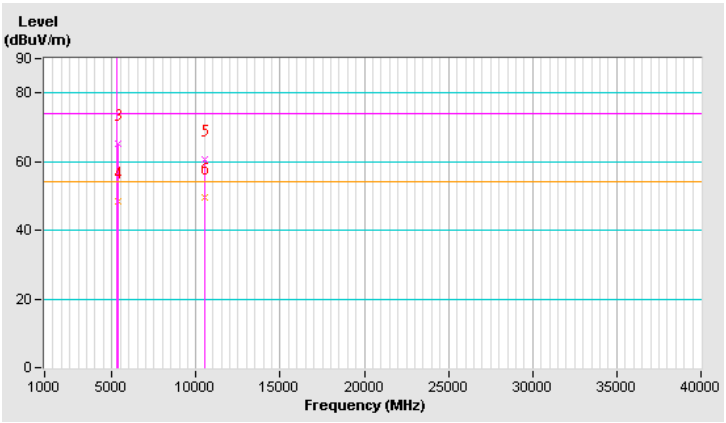
802.11n (HT40)

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

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	109.7 PK			1.55 H	3	70.00	39.70
2	*5270.00	99.8 AV			1.55 H	3	60.10	39.70
3	5350.00	65.4 PK	74.0	-8.6	1.43 H	3	59.30	6.10
4	5350.00	48.4 AV	54.0	-5.6	1.43 H	3	42.30	6.10
5	#10540.00	60.6 PK	74.0	-13.4	1.22 H	327	41.40	19.20
6	#10540.00	49.5 AV	54.0	-4.5	1.22 H	327	30.30	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

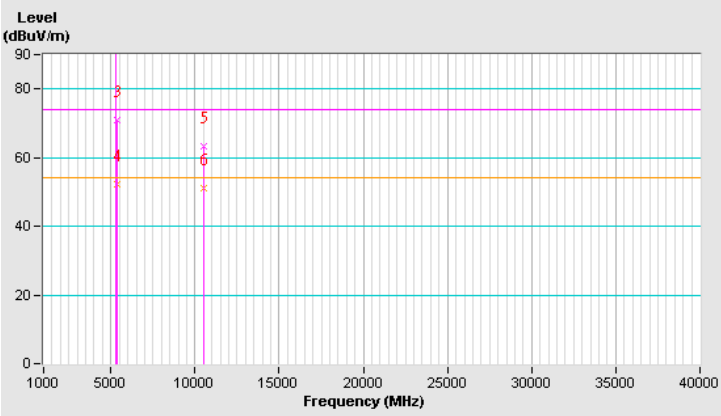


CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	114.4 PK			1.83 V	186	74.70	39.70
2	*5270.00	104.5 AV			1.83 V	186	64.80	39.70
3	5350.00	70.9 PK	74.0	-3.1	1.90 V	152	64.80	6.10
4	5350.00	52.2 AV	54.0	-1.8	1.90 V	152	46.10	6.10
5	#10540.00	63.2 PK	74.0	-10.8	1.22 V	199	44.00	19.20
6	#10540.00	51.1 AV	54.0	-2.9	1.22 V	199	31.90	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

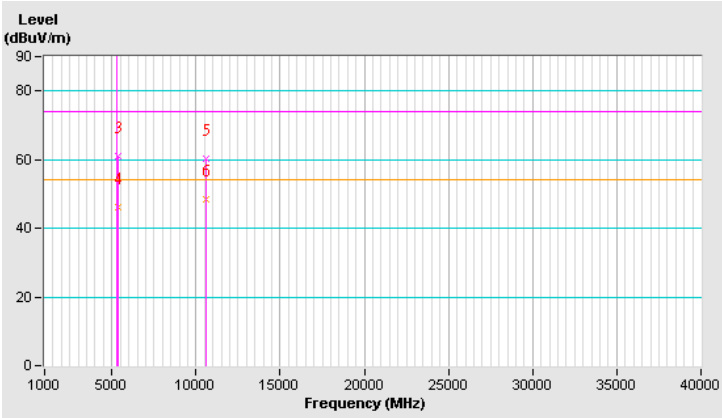


CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	103.1 PK			1.62 H	5	63.40	39.70
2	*5310.00	94.2 AV			1.62 H	5	54.50	39.70
3	5350.00	61.1 PK	74.0	-12.9	1.28 H	310	55.00	6.10
4	5350.00	46.0 AV	54.0	-8.0	1.28 H	310	39.90	6.10
5	10620.00	60.4 PK	74.0	-13.6	1.21 H	114	41.40	19.00
6	10620.00	48.5 AV	54.0	-5.5	1.21 H	114	29.50	19.00

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

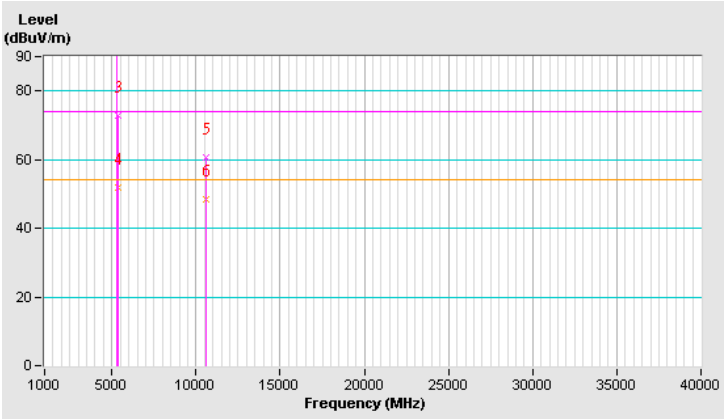


CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	108.1 PK			1.80 V	188	68.40	39.70
2	*5310.00	98.8 AV			1.80 V	188	59.10	39.70
3	5350.00	72.9 PK	74.0	-1.1	1.55 V	186	66.80	6.10
4	5350.00	51.7 AV	54.0	-2.3	1.55 V	186	45.60	6.10
5	10620.00	60.5 PK	74.0	-13.5	1.39 V	120	41.50	19.00
6	10620.00	48.3 AV	54.0	-5.7	1.39 V	120	29.30	19.00

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

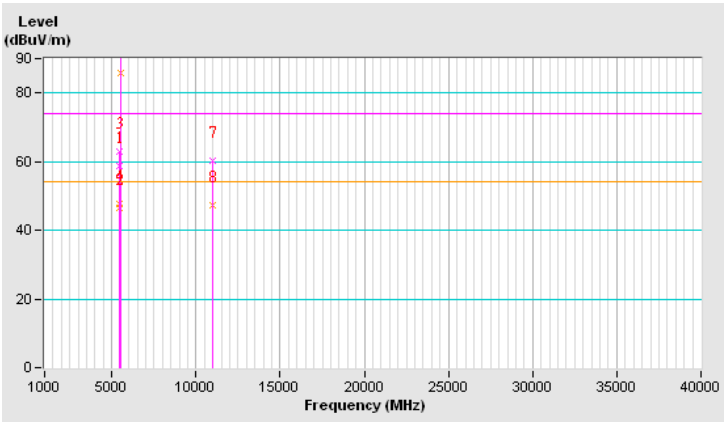


CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.7 PK	74.0	-15.3	1.20 H	66	52.30	6.40
2	5460.00	46.7 AV	54.0	-7.3	1.20 H	66	40.30	6.40
3	#5470.00	62.9 PK	74.0	-11.1	1.15 H	178	56.50	6.40
4	#5470.00	47.8 AV	54.0	-6.2	1.15 H	178	41.40	6.40
5	*5510.00	96.1 PK			1.00 H	182	56.10	40.00
6	*5510.00	85.9 AV			1.00 H	182	45.90	40.00
7	11020.00	60.2 PK	74.0	-13.8	1.05 H	60	40.80	19.40
8	11020.00	47.1 AV	54.0	-6.9	1.05 H	60	27.70	19.40

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

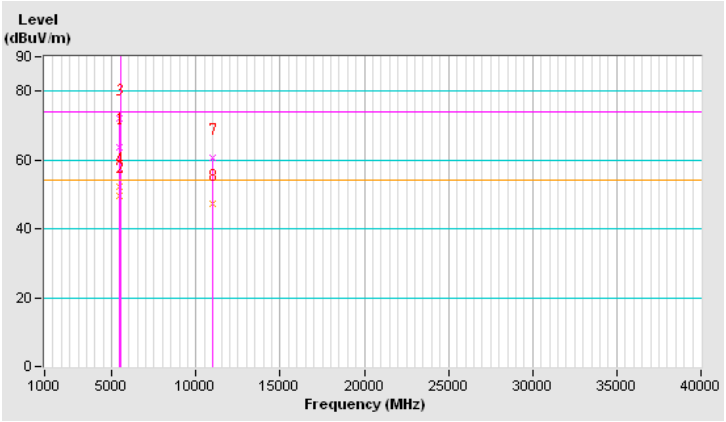


CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	5455.00	63.7 PK	74.0	-10.3	1.79 V	309	57.30	6.40
2	5455.00	49.6 AV	54.0	-4.4	1.79 V	309	43.20	6.40
3	#5470.00	71.9 PK	74.0	-2.1	1.84 V	319	65.50	6.40
4	#5470.00	52.2 AV	54.0	-1.8	1.84 V	319	45.80	6.40
5	*5510.00	107.5 PK			1.79 V	307	67.50	40.00
6	*5510.00	97.2 AV			1.79 V	307	57.20	40.00
7	11020.00	60.5 PK	74.0	-13.5	1.60 V	239	41.10	19.40
8	11020.00	47.3 AV	54.0	-6.7	1.60 V	239	27.90	19.40

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

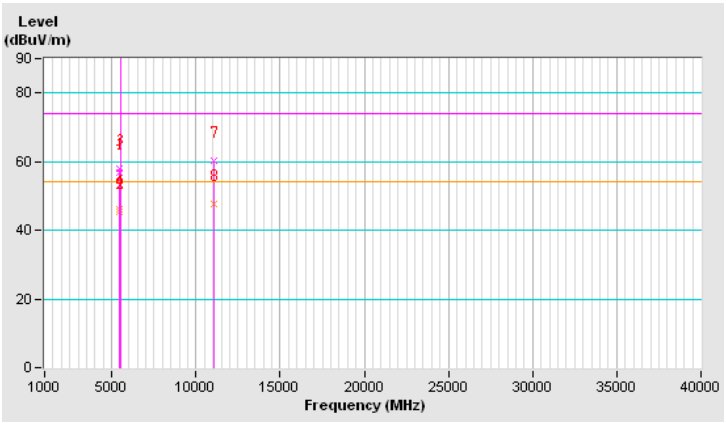


CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.7 PK	74.0	-17.3	1.16 H	159	50.30	6.40
2	5460.00	45.4 AV	54.0	-8.6	1.16 H	159	39.00	6.40
3	#5470.00	58.0 PK	74.0	-16.0	1.16 H	159	51.60	6.40
4	#5470.00	46.3 AV	54.0	-7.7	1.16 H	159	39.90	6.40
5	*5550.00	103.9 PK			1.39 H	180	63.80	40.10
6	*5550.00	93.6 AV			1.39 H	180	53.50	40.10
7	11100.00	60.4 PK	74.0	-13.6	1.23 H	233	41.50	18.90
8	11100.00	47.5 AV	54.0	-6.5	1.23 H	233	28.60	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

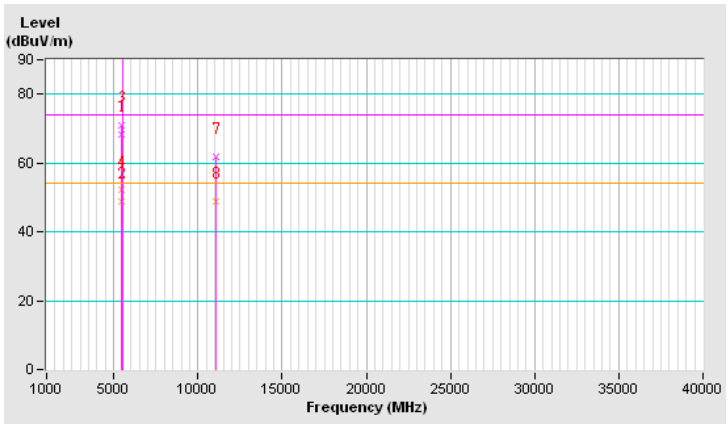


CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	5450.00	68.1 PK	74.0	-5.9	1.85 V	309	61.70	6.40
2	5450.00	49.0 AV	54.0	-5.0	1.85 V	309	42.60	6.40
3	#5470.00	71.1 PK	74.0	-2.9	1.85 V	309	64.70	6.40
4	#5470.00	52.1 AV	54.0	-1.9	1.85 V	309	45.70	6.40
5	*5550.00	113.6 PK			1.80 V	33	73.50	40.10
6	*5550.00	103.9 AV			1.80 V	33	63.80	40.10
7	11100.00	61.6 PK	74.0	-12.4	1.30 V	213	42.70	18.90
8	11100.00	48.7 AV	54.0	-5.3	1.30 V	213	29.80	18.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

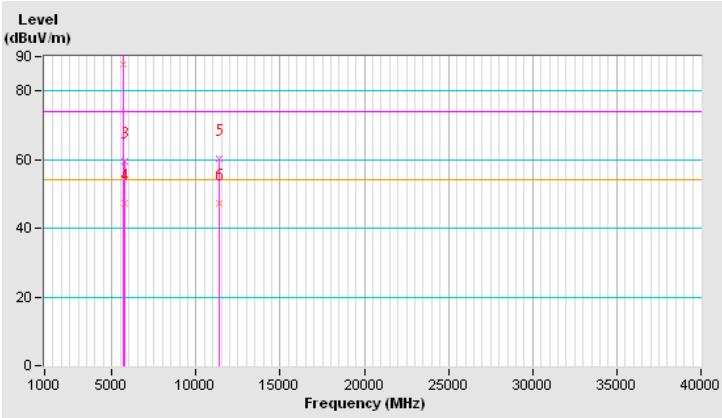


CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	97.5 PK			1.05 H	176	57.30	40.20
2	*5670.00	87.7 AV			1.05 H	176	47.50	40.20
3	#5725.00	59.5 PK	74.0	-14.5	1.39 H	200	52.70	6.80
4	#5725.00	47.4 AV	54.0	-6.6	1.39 H	200	40.60	6.80
5	11340.00	60.3 PK	74.0	-13.7	1.12 H	89	41.10	19.20
6	11340.00	47.3 AV	54.0	-6.7	1.12 H	89	28.10	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

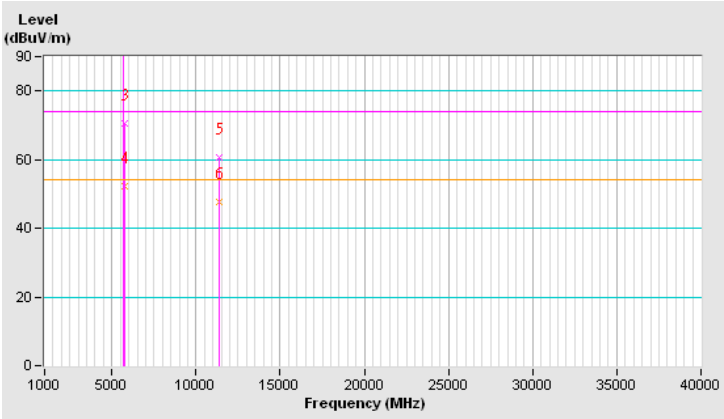


CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		
TEST MODE	C		

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	108.1 PK			1.80 V	50	67.90	40.20
2	*5670.00	98.3 AV			1.80 V	50	58.10	40.20
3	#5725.00	70.5 PK	74.0	-3.5	1.80 V	309	63.70	6.80
4	#5725.00	52.1 AV	54.0	-1.9	1.80 V	309	45.30	6.80
5	11340.00	60.7 PK	74.0	-13.3	1.32 V	189	41.50	19.20
6	11340.00	47.6 AV	54.0	-6.4	1.32 V	189	28.40	19.20

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. " * ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



Below 1GHz worst-case data

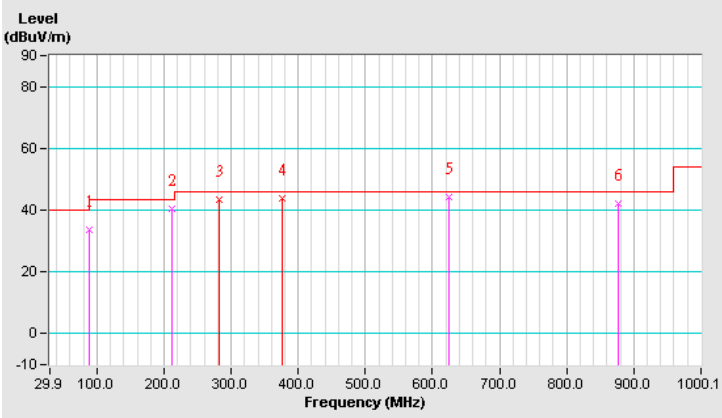
802.11a

CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	A		

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	88.52	33.7 QP	43.5	-9.8	1.80 H	246	53.50	-19.80
2	210.86	40.3 QP	43.5	-3.2	1.00 H	146	57.00	-16.70
3	283.15	43.6 QP	46.0	-2.4	1.00 H	183	56.50	-12.90
4	375.53	43.9 QP	46.0	-2.1	1.00 H	142	54.80	-10.90
5	625.12	44.4 QP	46.0	-1.6	1.49 H	224	49.80	-5.40
6	875.94	42.1 QP	46.0	-3.9	1.49 H	305	43.00	-0.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

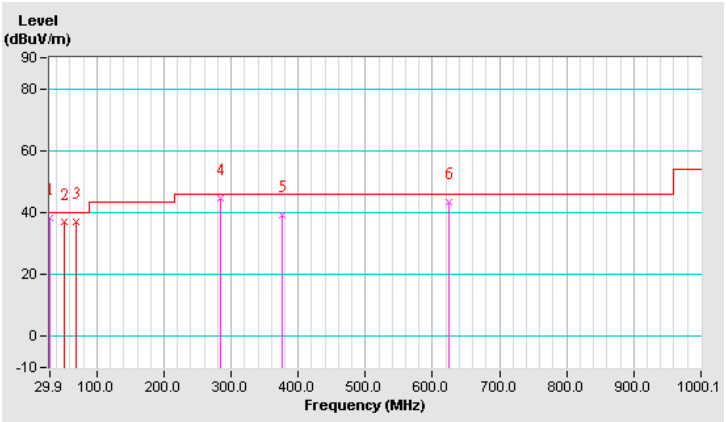


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	A		

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	30.12	38.3 QP	40.0	-1.7	1.00 V	241	54.40	-16.10
2	51.53	36.8 QP	40.0	-3.2	1.00 V	53	51.50	-14.70
3	69.94	37.0 QP	40.0	-3.0	1.11 V	84	52.90	-15.90
4	283.54	44.5 QP	46.0	-1.5	1.00 V	184	57.40	-12.90
5	375.24	39.2 QP	46.0	-6.8	1.00 V	164	50.10	-10.90
6	625.02	43.5 QP	46.0	-2.5	1.00 V	138	48.90	-5.40

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

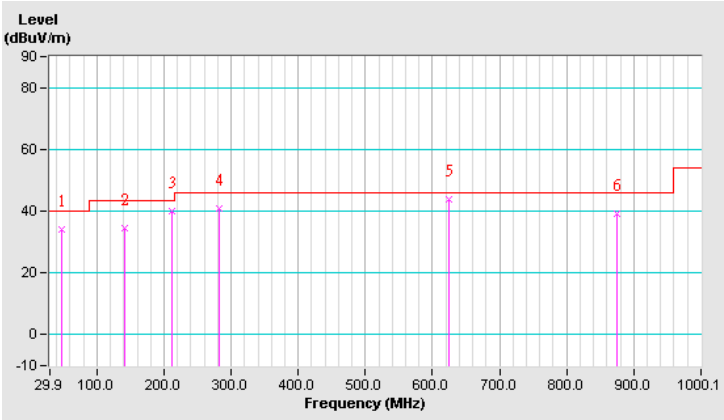


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	B		

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	47.58	34.0 QP	40.0	-6.0	1.64 H	142	48.60	-14.60
2	142.15	34.7 QP	43.5	-8.8	2.00 H	241	49.20	-14.50
3	211.02	40.1 QP	43.5	-3.4	1.38 H	243	56.80	-16.70
4	282.94	41.0 QP	46.0	-5.0	1.50 H	102	53.90	-12.90
5	625.00	44.0 QP	46.0	-2.0	1.00 H	208	49.40	-5.40
6	875.21	39.3 QP	46.0	-6.7	1.50 H	238	40.20	-0.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

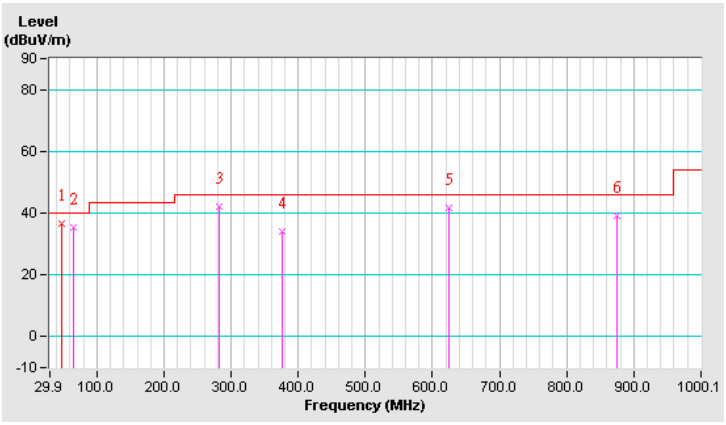


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	B		

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	47.94	36.7 QP	40.0	-3.3	1.00 V	305	51.30	-14.60
2	65.24	35.5 QP	40.0	-4.5	1.00 V	228	50.90	-15.40
3	283.15	42.0 QP	46.0	-4.0	1.35 V	302	54.90	-12.90
4	375.98	33.9 QP	46.0	-12.1	1.00 V	204	44.80	-10.90
5	625.18	41.9 QP	46.0	-4.1	1.00 V	194	47.30	-5.40
6	875.06	39.0 QP	46.0	-7.0	1.35 V	184	39.90	-0.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

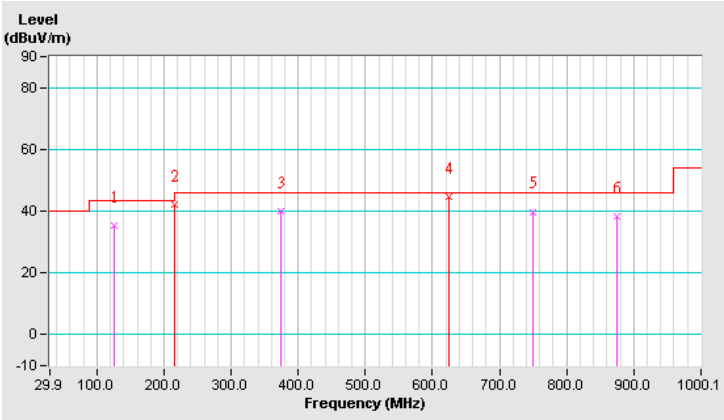


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	C		

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	125.06	35.4 QP	43.5	-8.1	1.00 H	53	51.30	-15.90
2	214.94	42.0 QP	43.5	-1.5	1.05 H	215	58.60	-16.60
3	374.86	40.2 QP	46.0	-5.8	1.00 H	152	51.10	-10.90
4	625.00	44.6 QP	46.0	-1.4	1.14 H	103	50.00	-5.40
5	750.14	39.8 QP	46.0	-6.2	1.00 H	131	42.90	-3.10
6	875.22	38.4 QP	46.0	-7.6	1.00 H	131	39.30	-0.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

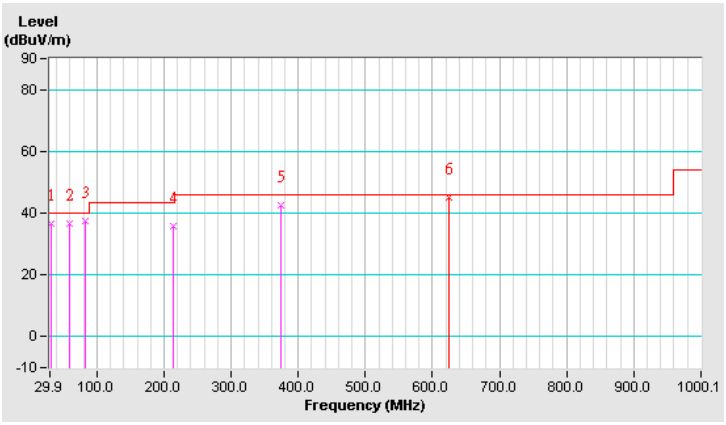


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	C		

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	31.21	36.8 QP	40.0	-3.2	1.00 V	64	52.90	-16.10
2	59.28	36.6 QP	40.0	-3.4	1.00 V	305	51.40	-14.80
3	82.97	37.6 QP	40.0	-2.4	1.00 V	264	56.80	-19.20
4	213.15	35.9 QP	43.5	-7.6	1.00 V	211	52.60	-16.70
5	375.11	42.7 QP	46.0	-3.3	1.00 V	202	53.60	-10.90
6	**625.01**	**45.0 QP**	**46.0**	**-1.0**	**1.00 V**	**83**	**50.40**	**-5.40**

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

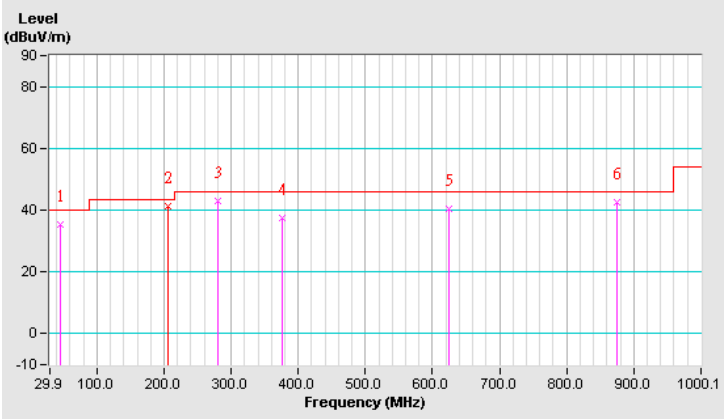


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	D		

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	45.54	35.4 QP	40.0	-4.6	1.85 H	106	50.20	-14.80
2	206.01	41.1 QP	43.5	-2.4	1.08 H	311	57.90	-16.80
3	280.21	43.0 QP	46.0	-3.0	1.00 H	52	55.90	-12.90
4	375.18	37.6 QP	46.0	-8.4	1.00 H	231	48.50	-10.90
5	624.94	40.5 QP	46.0	-5.5	1.06 H	211	45.90	-5.40
6	875.21	42.4 QP	46.0	-3.6	1.50 H	232	43.30	-0.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

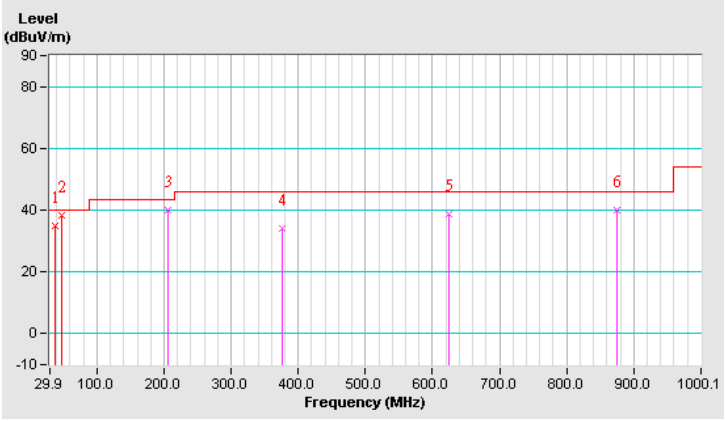


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		
TEST MODE	D		

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	37.54	35.0 QP	40.0	-5.0	1.00 V	53	50.40	-15.40
2	48.12	38.4 QP	40.0	-1.6	1.10 V	53	53.00	-14.60
3	206.53	39.8 QP	43.5	-3.7	1.86 V	184	56.60	-16.80
4	375.16	34.2 QP	46.0	-11.8	1.00 V	185	45.10	-10.90
5	625.11	38.7 QP	46.0	-7.3	1.00 V	164	44.10	-5.40
6	875.05	40.2 QP	46.0	-5.8	1.49 V	156	41.10	-0.90

Remark:

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 other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 11, 2014	Nov. 10, 2015
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2014	Dec. 25, 2015
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2015	Feb. 25, 2016
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 24, 2015	Jul. 23, 2016
Software ADT	BV ADT_Cond_ V7.3.7.3	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Shielded Room 1.
3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

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

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

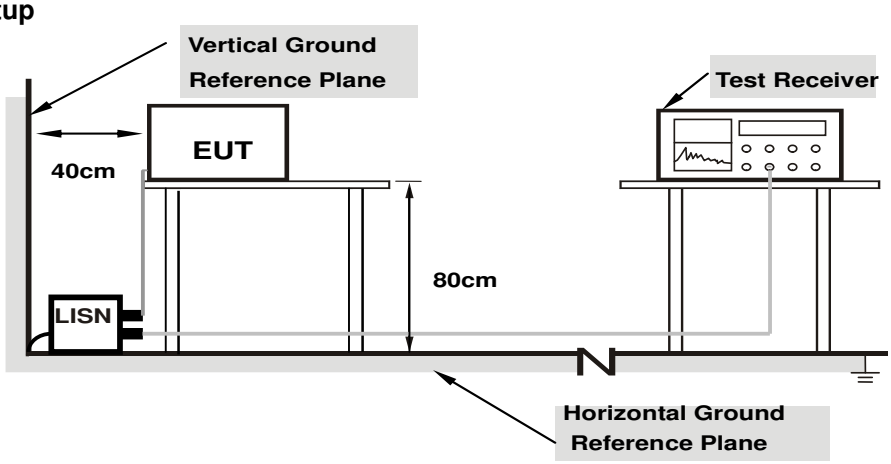
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Conditions

Same as 4.1.6.

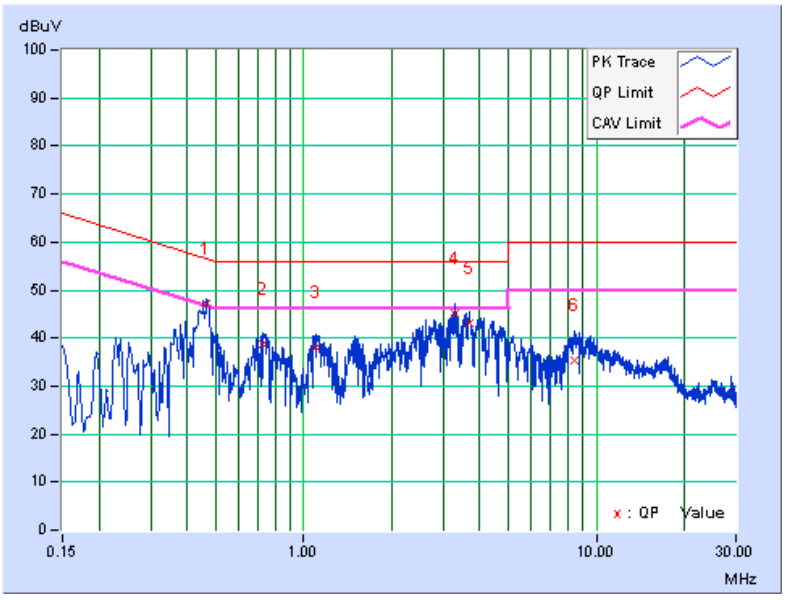
4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

No	Freq.	Corr. Factor	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.46669	9.91	37.26	27.40	47.17	37.31	56.57	46.57	-9.40	-9.26
2	0.72868	9.97	28.77	15.92	38.74	25.89	56.00	46.00	-17.26	-20.11
3	1.09593	10.04	27.94	15.94	37.98	25.98	56.00	46.00	-18.02	-20.02
4	3.27409	10.16	34.81	24.82	44.97	34.98	56.00	46.00	-11.03	-11.02
5	3.67305	10.18	32.92	22.05	43.10	32.23	56.00	46.00	-12.90	-13.77
6	8.41965	10.45	25.07	14.70	35.52	25.15	60.00	50.00	-24.48	-24.85

Remarks:

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

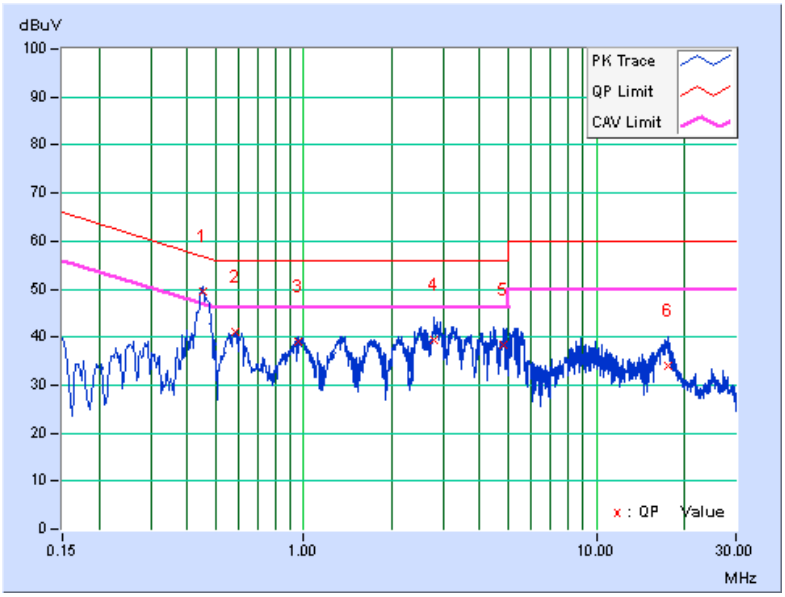


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A		

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	0.45097	9.99	39.59	29.73	49.58	39.72	56.86	46.86	-7.27	-7.13
2	0.58384	10.00	30.94	23.10	40.94	33.10	56.00	46.00	-15.06	-12.90
3	0.96319	10.03	29.19	20.63	39.22	30.66	56.00	46.00	-16.78	-15.34
4	2.79316	10.19	29.33	20.21	39.52	30.40	56.00	46.00	-16.48	-15.60
5	4.81854	10.37	28.07	19.92	38.44	30.29	56.00	46.00	-17.56	-15.71
6	17.59251	10.94	23.16	15.71	34.10	26.65	60.00	50.00	-25.90	-23.35

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.

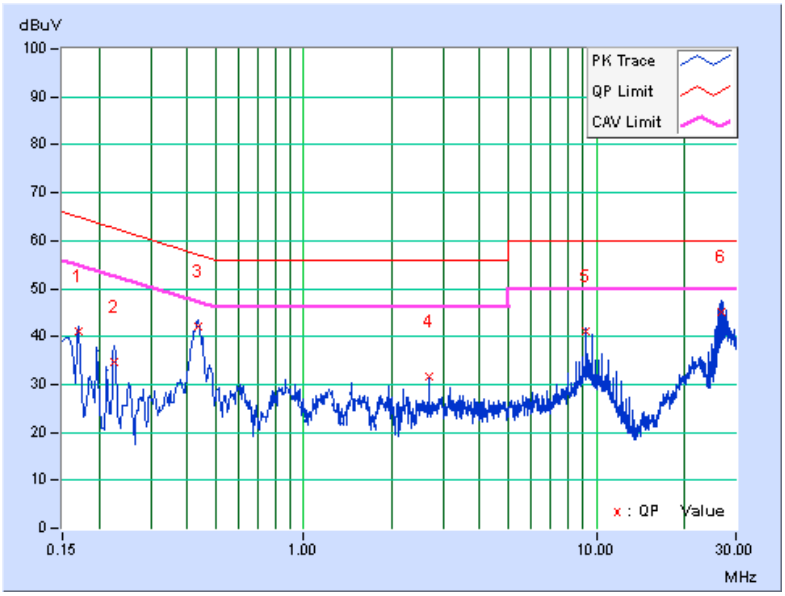


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.16967	9.83	31.12	22.06	40.95	31.89	64.98	54.98	-24.03	-23.09
2	0.22434	9.84	24.91	19.27	34.75	29.11	62.66	52.66	-27.90	-23.54
3	0.43543	9.88	32.28	24.25	42.16	34.13	57.15	47.15	-14.99	-13.02
4	2.67586	10.04	21.67	19.58	31.71	29.62	56.00	46.00	-24.29	-16.38
5	9.24075	10.46	30.60	29.69	41.06	40.15	60.00	50.00	-18.94	-9.85
6	26.74973	11.34	33.91	32.04	45.25	43.38	60.00	50.00	-14.75	-6.62

Remarks:

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

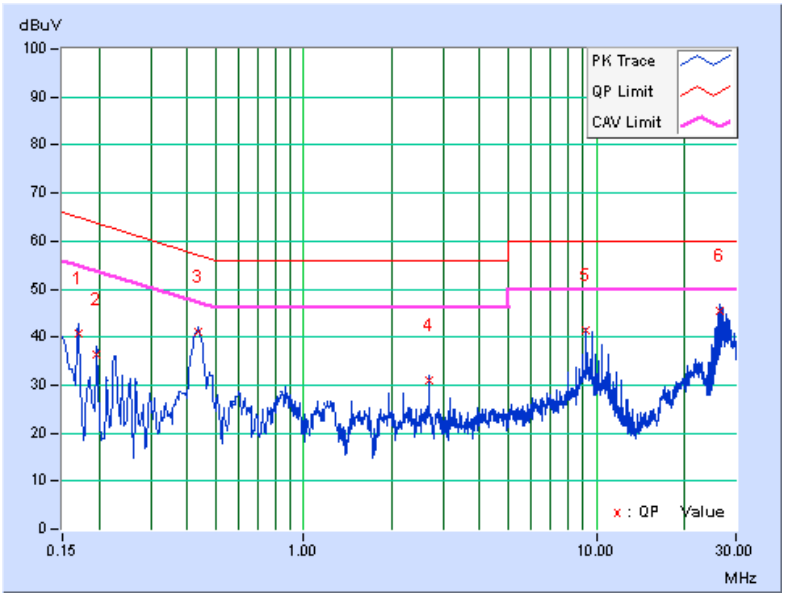


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	B		

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	0.16955	9.82	30.88	21.08	40.70	30.90	64.98	54.98	-24.28	-24.08
2	0.19692	9.83	26.52	15.26	36.35	25.09	63.74	53.74	-27.39	-28.65
3	0.43543	9.88	31.21	23.23	41.09	33.11	57.15	47.15	-16.06	-14.04
4	2.67586	10.04	21.08	19.79	31.12	29.83	56.00	46.00	-24.88	-16.17
5	9.24075	10.44	31.00	30.18	41.44	40.62	60.00	50.00	-18.56	-9.38
6	**26.50340**	**11.07**	**34.22**	**32.59**	**45.29**	**43.66**	**60.00**	**50.00**	**-14.71**	**-6.34**

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.

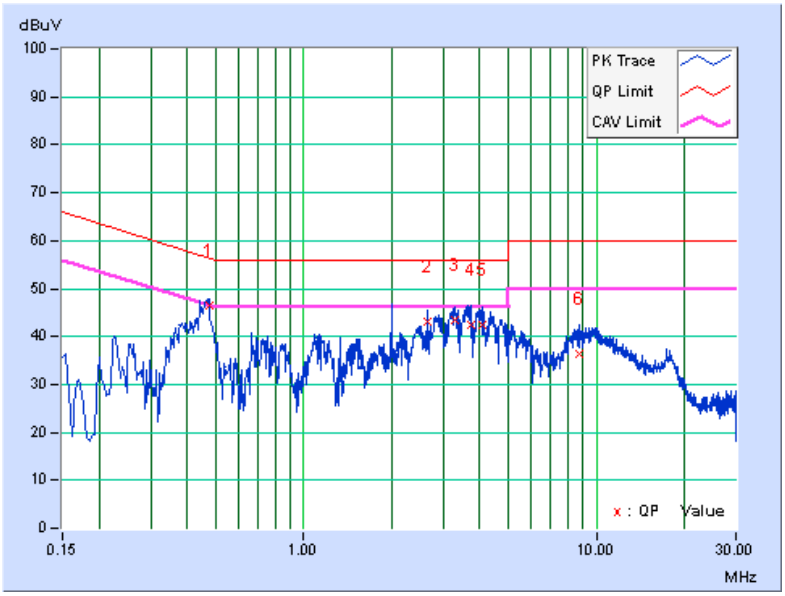


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.47412	9.92	36.63	26.79	46.55	36.71	56.44	46.44	-9.90	-9.74
2	2.66022	10.13	32.87	24.95	43.00	35.08	56.00	46.00	-13.00	-10.92
3	3.27409	10.16	33.22	22.86	43.38	33.02	56.00	46.00	-12.62	-12.98
4	3.71983	10.18	32.14	20.44	42.32	30.62	56.00	46.00	-13.68	-15.38
5	4.06782	10.19	32.19	20.59	42.38	30.78	56.00	46.00	-13.62	-15.22
6	8.70117	10.46	26.06	15.73	36.52	26.19	60.00	50.00	-23.48	-23.81

Remarks:

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

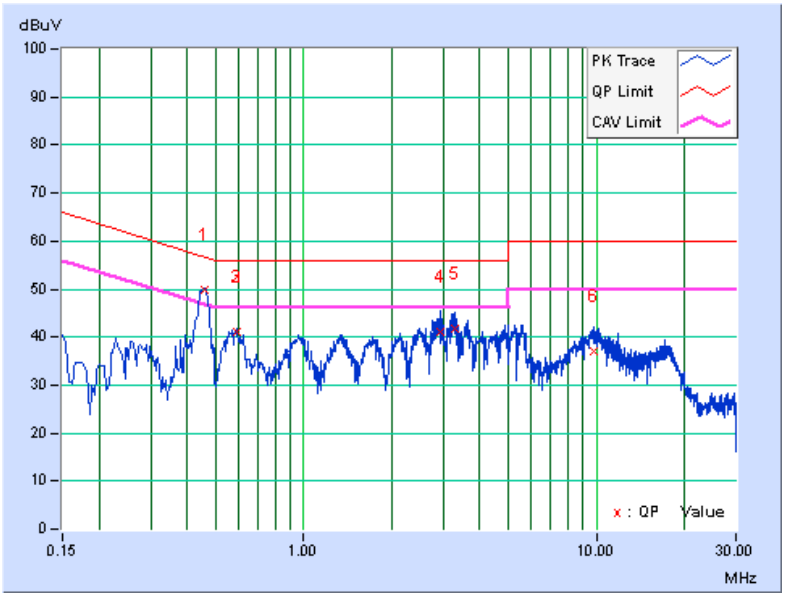


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	C		

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	0.46058	9.99	39.87	30.27	49.86	40.26	56.68	46.68	-6.82	-6.42
2	0.58792	10.00	31.01	23.10	41.01	33.10	56.00	46.00	-14.99	-12.90
3	0.58792	10.00	31.04	23.11	41.04	33.11	56.00	46.00	-14.96	-12.89
4	2.91828	10.20	30.97	22.47	41.17	32.67	56.00	46.00	-14.83	-13.33
5	3.27800	10.24	31.58	22.84	41.82	33.08	56.00	46.00	-14.18	-12.92
6	9.75687	10.58	26.54	16.33	37.12	26.91	60.00	50.00	-22.88	-23.09

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.

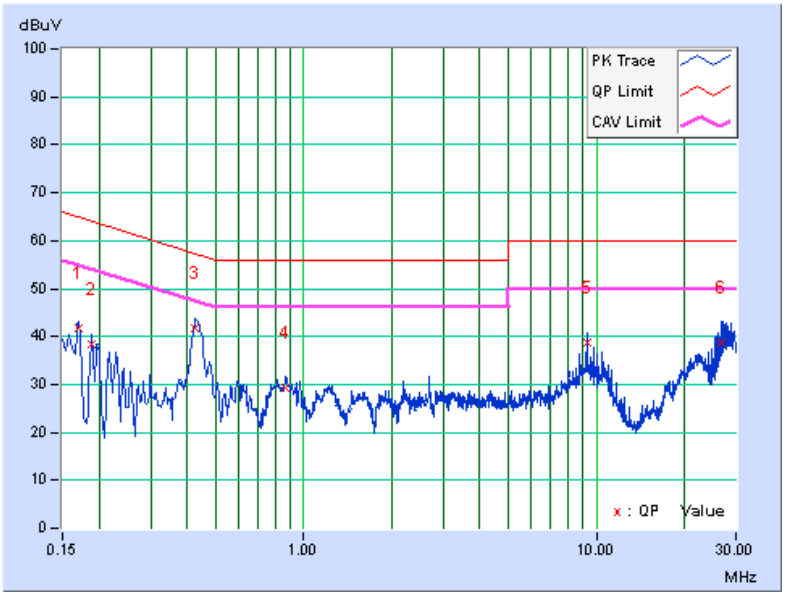


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.16967	9.83	31.87	22.19	41.70	32.02	64.98	54.98	-23.28	-22.96
2	0.18903	9.84	28.56	16.15	38.40	25.99	64.08	54.08	-25.68	-28.09
3	0.42761	9.88	31.95	25.32	41.83	35.20	57.30	47.30	-15.47	-12.10
4	0.86913	9.92	19.34	12.14	29.26	22.06	56.00	46.00	-26.74	-23.94
5	9.27594	10.46	28.35	26.89	38.81	37.35	60.00	50.00	-21.19	-12.65
6	26.59724	11.34	27.39	23.71	38.73	35.05	60.00	50.00	-21.27	-14.95

Remarks:

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

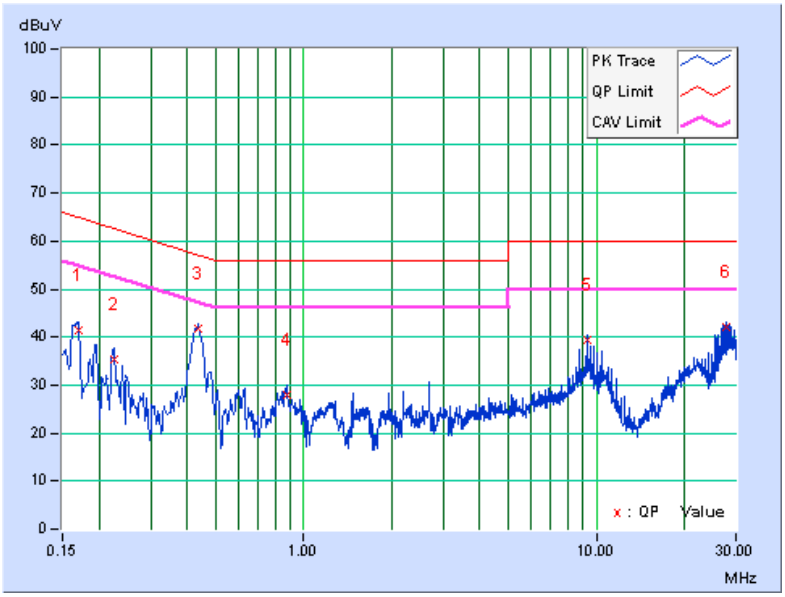


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	D		

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	0.16955	9.82	31.46	20.84	41.28	30.66	64.98	54.98	-23.70	-24.32
2	0.22434	9.84	25.50	19.43	35.34	29.27	62.66	52.66	-27.32	-23.39
3	0.43464	9.88	31.71	23.61	41.59	33.49	57.16	47.16	-15.57	-13.67
4	0.87372	9.92	17.90	10.49	27.82	20.41	56.00	46.00	-28.18	-25.59
5	9.27203	10.44	28.96	27.59	39.40	38.03	60.00	50.00	-20.60	-11.97
6	27.82107	11.10	31.07	28.92	42.17	40.02	60.00	50.00	-17.83	-9.98

Remarks:

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



4.3 Transmit Power Measurment

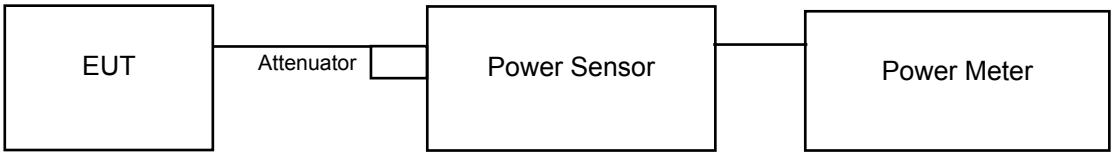
4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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.

4.3.5 Deviation fromTest Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

802.11a

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.79	19.53	**149.860**	21.76	24.00	Pass
60	5300	16.27	17.55	99.249	19.97	24.00	Pass
64	5320	15.23	16.47	77.704	18.90	24.00	Pass
100	5500	15.27	15.17	66.536	18.23	24.00	Pass
116	5580	17.15	17.36	106.330	20.27	24.00	Pass
140	5700	13.92	13.51	47.099	16.73	24.00	Pass

Note:
Chain 0
1. 11dBm + 10log (25.77) = 25.11 > 24dBm
2. 11dBm + 10log (24.23) = 24.84 > 24dBm
3. 11dBm + 10log (24.00) = 24.80 > 24dBm
4. 11dBm + 10log (23.94) = 24.79 > 24dBm
5. 11dBm + 10log (26.44) = 25.22 > 24dBm
6. 11dBm + 10log (23.85) = 24.77 > 24dBm

Chain 1
1. 11dBm + 10log (26.51) = 25.23 > 24dBm
2. 11dBm + 10log (23.45) = 24.70 > 24dBm
3. 11dBm + 10log (23.08) = 24.63 > 24dBm
4. 11dBm + 10log (23.31) = 24.68 > 24dBm
5. 11dBm + 10log (26.22) = 25.19 > 24dBm
6. 11dBm + 10log (22.38) = 24.50 > 24dBm

802.11n (HT20)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
52	5260	17.74	19.13	141.275	21.50	24.00	Pass
60	5300	14.28	14.32	53.832	17.31	24.00	Pass
64	5320	14.41	14.44	55.403	17.44	24.00	Pass
100	5500	15.12	15.23	65.852	18.19	24.00	Pass
116	5580	17.81	17.72	**119.551**	20.78	24.00	Pass
140	5700	13.81	12.97	43.859	16.42	24.00	Pass

Note:
Chain 0
1. 11dBm + 10log (25.23) = 25.02 > 24dBm
2. 11dBm + 10log (25.23) = 25.02 > 24dBm
3. 11dBm + 10log (24.48) = 24.89 > 24dBm
4. 11dBm + 10log (25.15) = 25.01 > 24dBm
5. 11dBm + 10log (28.35) = 25.53 > 24dBm
6. 11dBm + 10log (23.97) = 24.80 > 24dBm

Chain 1
1. 11dBm + 10log (27.26) = 25.36 > 24dBm
2. 11dBm + 10log (23.64) = 24.74 > 24dBm
3. 11dBm + 10log (24.45) = 24.88 > 24dBm
4. 11dBm + 10log (24.08) = 24.82 > 24dBm
5. 11dBm + 10log (25.85) = 25.12 > 24dBm
6. 11dBm + 10log (24.13) = 24.83 > 24dBm

802.11n (HT40)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
54	5270	18.15	18.77	140.649	21.48	24.00	Pass
62	5310	12.45	13.17	38.328	15.84	24.00	Pass
102	5510	11.39	11.08	26.595	14.25	24.00	Pass
110	5550	17.26	17.52	109.705	20.40	24.00	Pass
134	5670	14.59	14.02	54.009	17.32	24.00	Pass

Note:
Chain 0
1. 11dBm + 10log (70.52) = 29.48 > 24dBm
2. 11dBm + 10log (51.63) = 28.13 > 24dBm
3. 11dBm + 10log (51.81) = 28.14 > 24dBm
4. 11dBm + 10log (79.67) = 30.01 > 24dBm
5. 11dBm + 10log (53.37) = 28.27 > 24dBm

Chain 1
1. 11dBm + 10log (73.68) = 29.67 > 24dBm
2. 11dBm + 10log (49.71) = 27.96 > 24dBm
3. 11dBm + 10log (50.02) = 27.99 > 24dBm
4. 11dBm + 10log (52.53) = 28.20 > 24dBm
5. 11dBm + 10log (51.74) = 28.14 > 24dBm

26dB Bandwidth:

802.11a

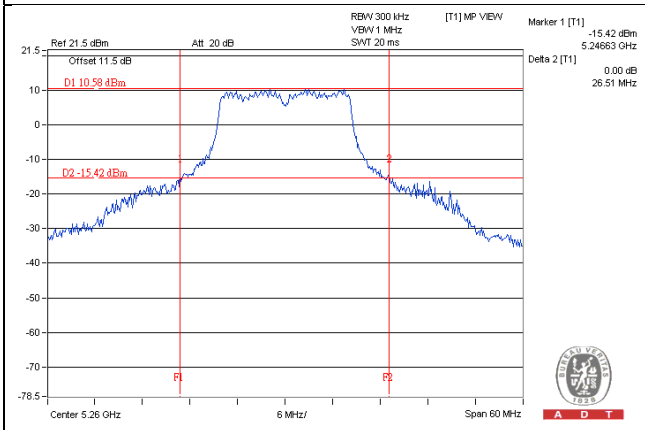
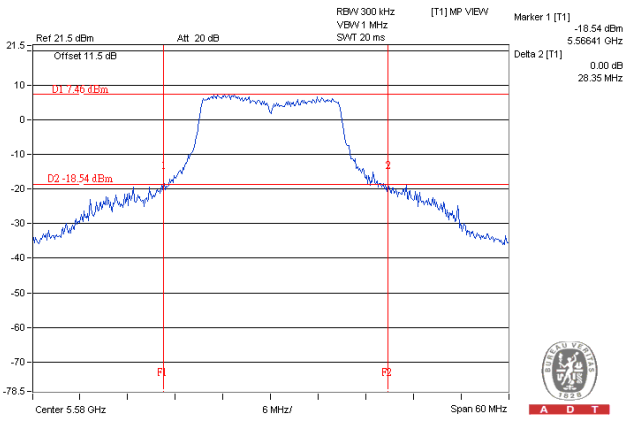
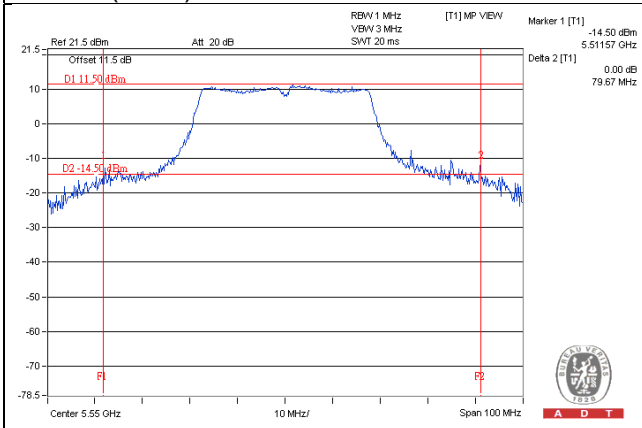
Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
52	5260	25.77	26.51	Pass
60	5300	24.23	23.45	Pass
64	5320	24.00	23.08	Pass
100	5500	23.94	23.31	Pass
116	5580	26.44	26.22	Pass
140	5700	23.85	22.38	Pass

802.11n (HT20)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
52	5260	25.23	27.26	Pass
60	5300	25.23	23.64	Pass
64	5320	24.48	24.45	Pass
100	5500	25.15	24.08	Pass
116	5580	28.35	25.85	Pass
140	5700	23.97	24.13	Pass

802.11n (HT40)

Channel	Channel Frequency (MHz)	26dBc Bandwidth (MHz)		Pass / Fail
		Chain 0	Chain 1	
54	5270	70.52	73.68	Pass
62	5310	51.63	49.71	Pass
102	5510	51.81	50.02	Pass
110	5550	79.67	52.53	Pass
134	5670	53.37	51.74	Pass

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

Occupied Bandwidth:

802.11a

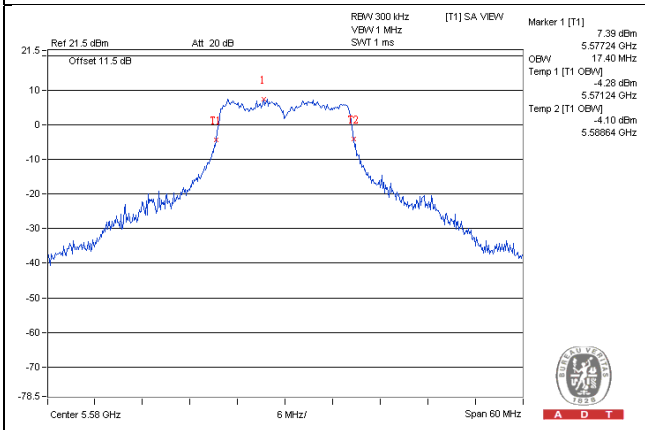
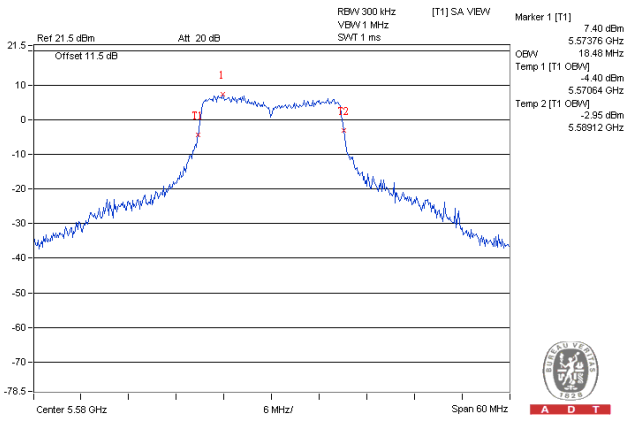
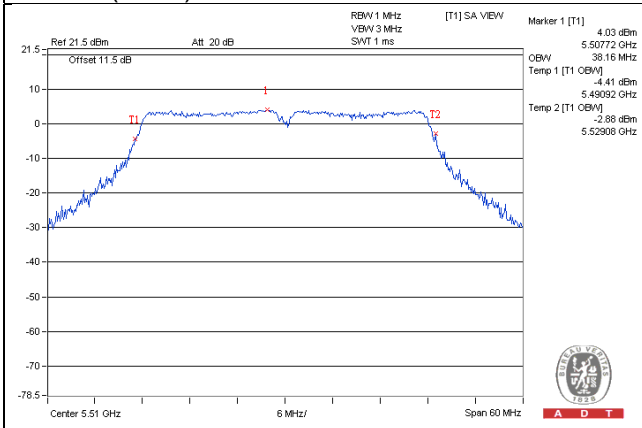
Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	17.16	17.28
60	5300	17.16	16.80
64	5320	17.16	16.80
100	5500	17.04	16.92
116	5580	17.40	17.04
140	5700	17.16	16.80

802.11n (HT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	18.36	18.48
60	5300	18.12	17.88
64	5320	18.12	18.36
100	5500	18.24	18.00
116	5580	18.48	18.00
140	5700	18.12	18.00

802.11n (HT40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	37.80	37.92
62	5310	37.80	37.20
102	5510	38.16	37.44
110	5550	38.16	37.68
134	5670	37.80	37.92

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	
	

EUT MAXIMUM CONDUCTED POWER

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	149.860	21.76
5470~5725	106.330	20.27

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	141.275	21.50
5470~5725	119.551	20.78

Note: Manufacturer provides Transmit Power Control description to meet this requirement.

802.11n (HT40)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	140.649	21.48
5470~5725	109.705	20.40

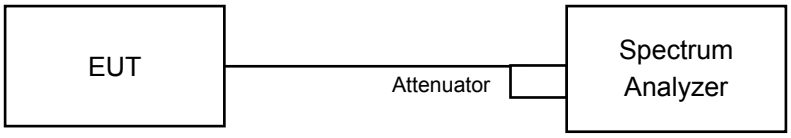
Note: Manufacturer provides Transmit Power Control description to meet this requirement.

4.4 Peak Power Spectral Density Measurement

4.4.1 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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

Using method SA-1

a. Set span to encompass the entire emission bandwidth (EBW) of the signal.

b. Set RBW = 1 MHz, Set VBW ≥ 3 MHz, Detector = RMS

c. Sweep time = auto, trigger set to “free run”.

d. Trace average at least 100 traces in power averaging mode.

e. Record the max value

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.

4.4.7 Test Results

802.11a

Channel	Channel Frequency (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
52	5260	3.47	5.84	7.83	9.99	Pass
60	5300	1.99	4.04	6.15	9.99	Pass
64	5320	0.54	2.78	4.81	9.99	Pass
100	5500	1.14	0.82	3.99	9.99	Pass
116	5580	3.52	3.63	6.59	9.99	Pass
140	5700	-0.82	-0.86	2.17	9.99	Pass

Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi , so the power density limit shall be reduced to 11-(7.01-6) = 9.99dBm.

802.11n (HT20)

Channel	Channel Frequency (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
52	5260	2.99	4.67	6.92	9.99	Pass
60	5300	-2.15	0.25	2.22	9.99	Pass
64	5320	-1.53	0.63	2.69	9.99	Pass
100	5500	-0.15	0.72	3.32	9.99	Pass
116	5580	1.91	3.82	5.98	9.99	Pass
140	5700	-1.48	-1.55	1.50	9.99	Pass

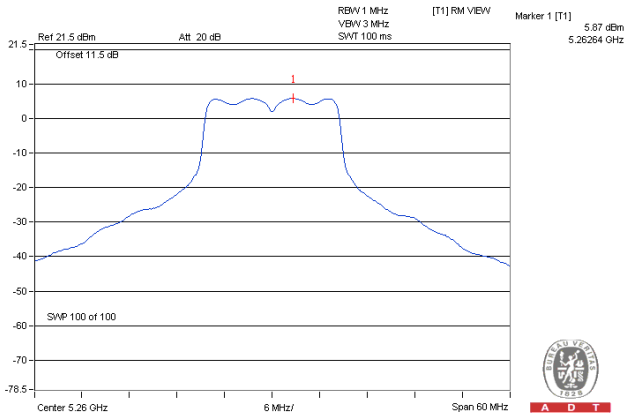
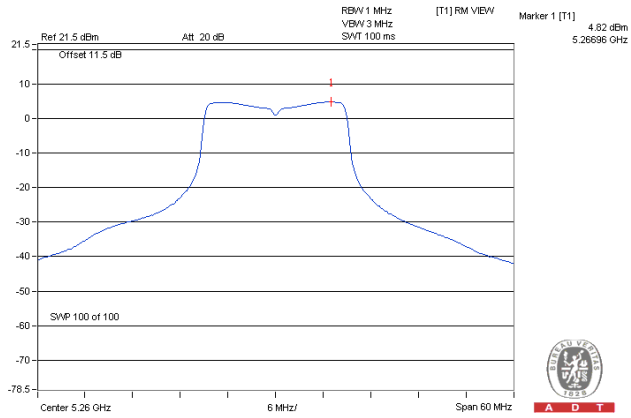
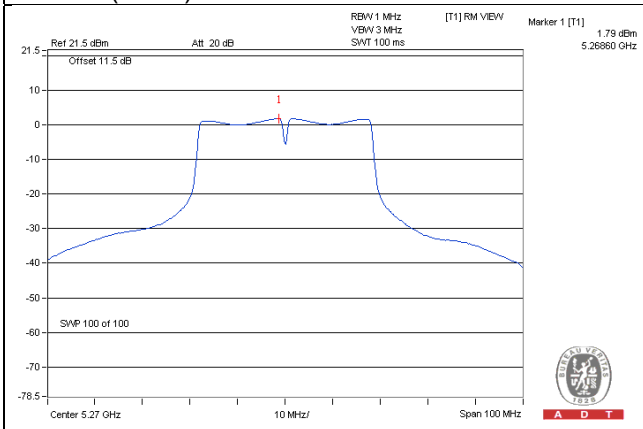
Note:
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi , so the power density limit shall be reduced to 11-(7.01-6) = 9.99dBm.

802.11n (HT40)

Channel	Channel Frequency (MHz)	PSD (dBm)		Total PSD (dBm)	Max. Limit (dBm)	Pass / Fail
		Chain 0	Chain 1			
54	5270	-0.07	1.79	3.97	9.99	Pass
62	5310	-4.66	-4.25	-1.44	9.99	Pass
102	5510	-6.01	-6.45	-3.21	9.99	Pass
110	5550	0.60	0.34	3.48	9.99	Pass
134	5670	-1.78	-2.94	0.69	9.99	Pass

Note:

1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. Directional gain = 4dBi + 10log(2) = 7.01dBi > 6dBi , so the power density limit shall be reduced to 11-(7.01-6) = 9.99dBm.

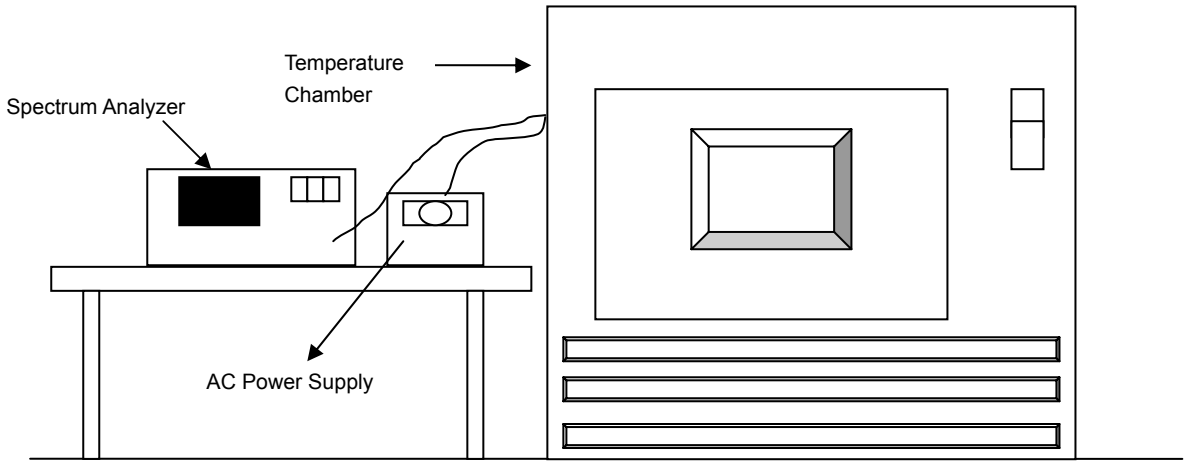
Spectrum Plot of Worst Value	
802.11a / Chain 1 / CH 52	802.11n (HT20) / Chain 1 / CH 52
	
802.11n (HT40) / Chain 1 / CH 54	
	

4.5 Frequency Stability

4.5.1 Limits of Frequency Stability Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

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.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

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

4.5.7 Test Results

Frequemcy Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
55	120	5260.0226	0.00043	5260.021	0.00040	5260.0239	0.00045	5260.0257	0.00049
50	120	5259.9794	-0.00039	5259.9779	-0.00042	5259.9763	-0.00045	5259.9801	-0.00038
40	120	5260.0131	0.00025	5260.0111	0.00021	5260.0129	0.00025	5260.0118	0.00022
30	120	5259.9948	-0.00010	5259.9969	-0.00006	5259.9971	-0.00006	5259.997	-0.00006
20	120	5259.9967	-0.00006	5259.9953	-0.00009	5259.9949	-0.00010	5259.9993	-0.00001
10	120	5260.0102	0.00019	5260.0105	0.00020	5260.0149	0.00028	5260.0129	0.00025
0	120	5260.0149	0.00028	5260.0159	0.00030	5260.0151	0.00029	5260.013	0.00025
-10	120	5260.0096	0.00018	5260.0105	0.00020	5260.0102	0.00019	5260.0123	0.00023
-20	120	5260.0184	0.00035	5260.0175	0.00033	5260.0205	0.00039	5260.0209	0.00040

Frequemcy Stability Versus Temp.									
Operating Frequency: 5260MHz									
Temp. (℃)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)	Measured Frequency (MHz)	Frequency Drift (%)
20	138	5259.9961	-0.00007	5259.9956	-0.00008	5259.9944	-0.00011	5260.0001	0.00000
	120	5259.9967	-0.00006	5259.9953	-0.00009	5259.9949	-0.00010	5259.9993	-0.00001
	102	5259.9973	-0.00005	5259.9955	-0.00009	5259.994	-0.00011	5259.9997	-0.00001

5 Pictures of Test Arrangements

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

Appendix – Information on the Testing Laboratories

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

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

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Web Site: www.bureauveritas-adt.com

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

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