FCC Test Report

Report No.:	RF181001C19-1
FCC ID:	A4RG020G
Model Name:	G020G
Received Date:	Oct. 01, 2018
Test Date:	Nov. 07 ~ Nov. 15, 2018
Issued Date:	Dec. 22, 2018
Applicant:	Google LLC
Address:	1600 Amphitheatre Parkway Mountain View, CA 94043, USA
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 (1):	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
Test Location (2):	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)
FCC Registration / Designation Number (1):	788550 / TW0003
FCC Registration / Designation Number (2):	198487 / TW2021

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The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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Release Control Record

Issue No.	Description	Date Issued
RF181001C19-1	Original release	Dec. 22, 2018

1 Certificate of Conformity

Product: Smartphone

Model Name: G020G

Sample Status: Identical Prototype

Applicant: Google LLC

Test Date: Nov. 07 ~ Nov. 15, 2018

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

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

Prepared by : _____ , **Date:** Dec. 22, 2018
Polly Chien / Specialist

Approved by : _____ , **Date:** Dec. 22, 2018
Bruce Chen / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
FCC Clause	Test Item	Result	Remarks
15.407(b)(6)	AC Power Conducted Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -18.14dB at 0.52536MHz.
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions & Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.3dB at 5150.00MHz.
15.407(a)(1/2/3)	Max Average Transmit Power	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	-	Reference only.
15.407(a)(1/2/3)	Peak Power Spectral Density	Pass	Meet the requirement of limit.
15.407(e)	6dB bandwidth	Pass	Meet the requirement of limit. (U-NII-3 Band only)
15.407(g)	Frequency Stability	Pass	Meet the requirement of limit.
15.407(c)	Automatically Discontinue Transmission	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
Radiated Emissions	9kHz ~ 30MHz	2.38 dB
	30MHz ~ 1GHz	5.54 dB
	Above 1GHz	5.48 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Smartphone
Model Name	G020G
Sample Status	Identical Prototype
Power Supply Rating	3.85Vdc (Battery) 5Vdc or 9Vdc (Adapter) 5Vdc (Host equipment)
Modulation Type	256QAM, 64QAM, 16QAM, QPSK, BPSK
Modulation Technology	OFDM
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 867Mbps
Operating Frequency	5180 ~ 5240MHz, 5260 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz
Number of Channel	5180 ~ 5240MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5260 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 4 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 12 802.11n (HT40), 802.11ac (VHT40): 6 802.11ac (VHT80): 3 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 5 802.11n (HT40), 802.11ac (VHT40): 2 802.11ac (VHT80): 1
Output Power	5180 ~ 5240MHz: 110.936mW 5260 ~ 5320MHz: 111.982mW 5500 ~ 5720MHz: 112.120mW 5745 ~ 5825MHz: 110.917mW
Antenna Type	Refer to Note as below
Antenna Connector	Refer to Note as below
Accessory Device	Refer to Note as below
Cable Supplied	Refer to Note as below

Note:

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

Modulation Mode	TX Function
802.11a	1TX/2TX
802.11n (HT20)	1TX/2TX
802.11n (HT40)	1TX/2TX
802.11ac (VHT20)	1TX/2TX
802.11ac (VHT40)	1TX/2TX
802.11ac (VHT80)	1TX/2TX

* The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for 20MHz/40MHz, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

* SISO mode and MIMO mode are presented in power output test item. For other test items, MIMO mode is the worst case for final tests after pretesting.

2. There're 2 configurations for the EUT listed as below.
   - Main Sample: EUT + Battery 1
   - 2nd Sample: EUT + Battery 2

   After pre-tested with the EUT, only the worst configuration (main sample) was chosen for the final test.

3. The EUT accessories list refers to EUT Phote.pdf.

4. The following antennas were provided to the EUT.

No.	Type	Connector	Gain (dBi)			
			5.15-5.25 GHz	5.25-5.35 GHz	5.47-5.725 GHz	5.725-5.85 GHz
0	PIFA	NA	-2.2	-2.7	-3.4	-3.0
1	PIFA	NA	-0.2	-0.5	-1.7	-2.8

5. The worst configuration power mode is presented in the report as below. Please refer to SAR test report for more detail test mode.

Maximum Tune-up Power Mode				
Band		TX Antenna	WWAN Function	Body-Worn/Hotspot
WLAN	5G Band 1	Ant 0+1	WWAN-Off	Body-Worn/Hotspot
	5G Band 2	Ant 0+1	WWAN-Off	Body-Worn/Hotspot
	5G Band 3	Ant 0+1	WWAN-Off	Body-Worn/Hotspot
	5G Band 4	Ant 0+1	WWAN-Off	Body-Worn/Hotspot

3.2 Description of Test Modes

For 5180 ~ 5240MHz:

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

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

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

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

For 5260 ~ 5320MHz:

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

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

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

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

For 5500 ~ 5720MHz:

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

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

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

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

3 channels are provided for 802.11ac (VHT80):

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

For 5745 ~ 5825MHz:

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

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

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

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to				Description
	RE≥1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

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

Radiated Emission Test (Above 1GHz):

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

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

Radiated Emission Test (Below 1GHz):

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

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

Test Condition:

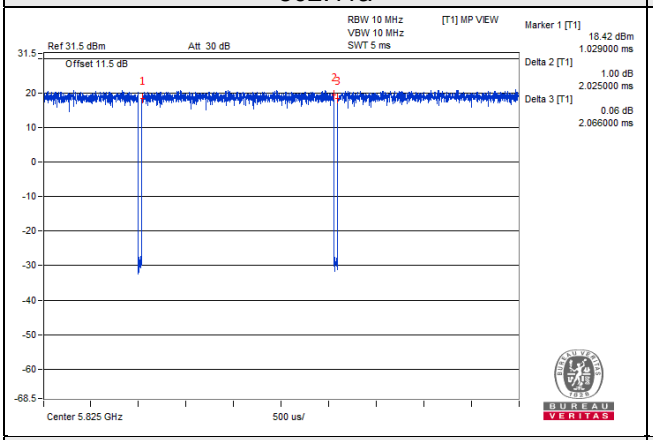
Applicable to	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 76% RH	120Vac, 60Hz	Ian Chang
RE<1G	25 deg. C, 76% RH	120Vac, 60Hz	Ian Chang
PLC	25 deg. C, 68% RH	120Vac, 60Hz	Jones Chang
APCM	25 deg. C, 60% RH	120Vac, 60Hz	Chris Lin

3.3 Duty Cycle of Test Signal

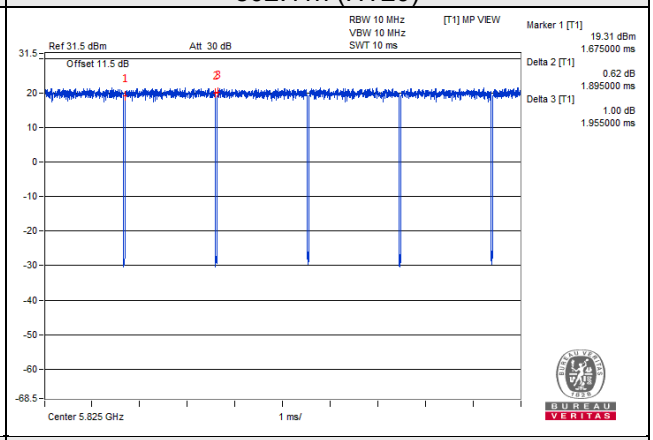
Duty cycle of test signal is ≥ 98%, duty factor is not required.
Duty cycle of test signal is < 98%, duty factor shall be considered.

802.11a: Duty cycle = 2.025/2.066 = 0.9802
802.11n (HT20): Duty cycle = 1.895/1.955 = 0.969Duty factor = 10 * log (1/0.969) = 0.14
802.11n (HT40): Duty cycle = 0.932/0.979 = 0.952, Duty factor = 10 * log (1/0.952) = 0.21
802.11ac (VHT80): Duty cycle = 0.455/0.493 = 0.923, Duty factor = 10 * log (1/0.923) = 0.35

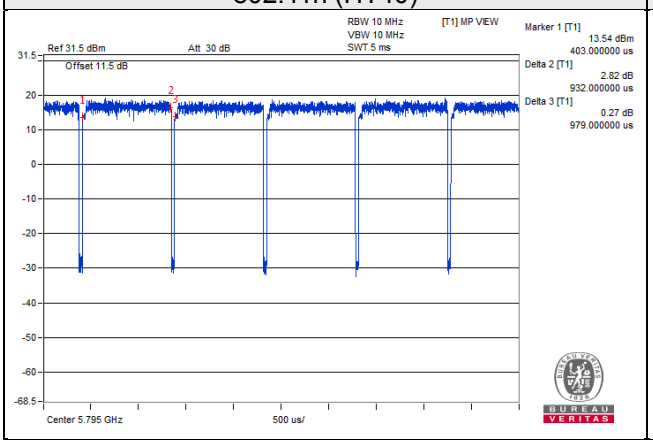
802.11a



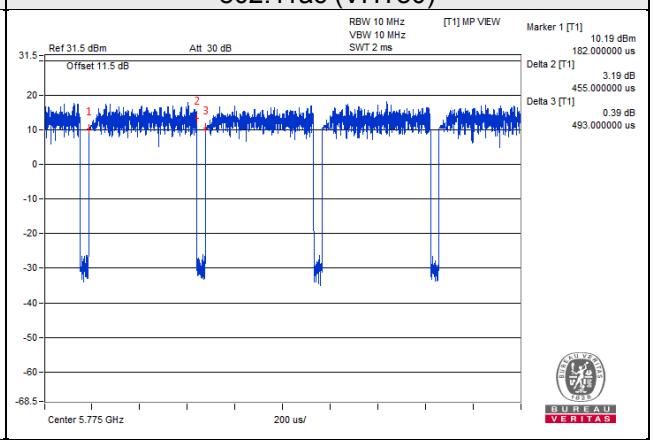
802.11n (HT20)



802.11n (HT40)



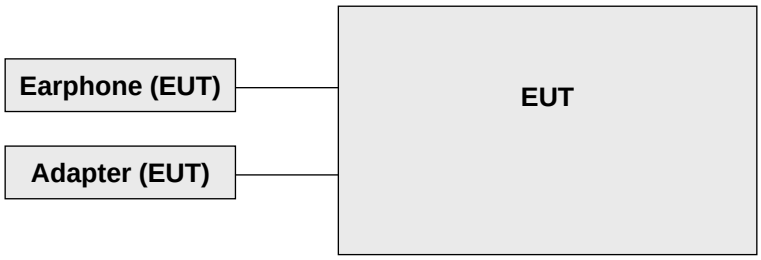
802.11ac (VHT80)



3.4 Description of Support Units

The EUT has been tested as an independent unit.

3.4.1 Configuration of System under Test



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)
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01
ANSI C63.10:2013

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

Note:

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

Limits of unwanted emission out of the restricted bands

Applicable To			Limit	
789033 D02 General UNII Test Procedure New Rules v02r01			Field Strength at 3m	
			PK: 74 (dBμV/m)	AV: 54 (dBμV/m)
Frequency Band	Applicable To		EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)		PK: -27 (dBm/MHz)	PK: 68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)			
5470~5725 MHz	15.407(b)(3)			
5725~5850 MHz	☒	15.407(b)(4)(i)	PK: -27 (dBm/MHz) *1 PK: 10 (dBm/MHz) *2 PK: 15.6 (dBm/MHz) *3 PK: 27 (dBm/MHz) *4	PK: 68.2(dBμV/m) *1 PK: 105.2 (dBμV/m) *2 PK: 110.8(dBμV/m) *3 PK: 122.2 (dBμV/m) *4
	☐	15.407(b)(4)(ii)	Emission limits in section 15.247(d)	

*1 beyond 75 MHz or more above of the band edge.

*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.

*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.

*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
HP Preamplifier	8447D	2432A03504	Feb. 21, 2018	Feb. 20, 2019
HP Preamplifier	8449B	3008A01201	Feb. 22, 2018	Feb. 21, 2019
MITEQ Preamplifier	AMF-6F-260400-33-8P	892164	Feb. 21, 2018	Feb. 20, 2019
Agilent TEST RECEIVER	N9038A	MY51210129	Feb. 06, 2018	Feb. 05, 2019
Schwarzbeck Antenna	VULB 9168	139	Dec. 29, 2017	Dec. 28, 2018
Schwarzbeck Antenna	VHBA 9123	480	May 19, 2017	May 18, 2019
Schwarzbeck Horn Antenna	BBHA-9170	212	Dec. 29, 2017	Dec. 28, 2018
Schwarzbeck Horn Antenna	BBHA 9120-D1	D130	Mar. 29, 2018	Mar. 28, 2019
ADT. Turn Table	TT100	0306	NA	NA
ADT. Tower	AT100	0306	NA	NA
Software	Radiated_V7.6.15.9.5	NA	NA	NA
SUHNER RF cable With 4dB PAD	SF102	Cable-CH6-01	Aug. 13, 2018	Aug. 12, 2019
SUHNER RF cable With 3/4dB PAD	SF102	Cable-CH8-3.6m	Aug. 13, 2018	Aug. 12, 2019
KEYSIGHT MIMO Powermeasurement Test set	U2021XA	U2021XA-001	Jun. 04, 2018	Jun. 03, 2019
KEYSIGHT Spectrum Analyzer	N9030A	MY54490260	Aug. 03, 2018	Aug. 02, 2019
Loop Antenna EMCI	LPA600	270	Aug. 11, 2017	Aug. 10, 2019
EMCO Horn Antenna	3115	00028257	Mar. 29, 2018	Mar. 28, 2019
Highpass filter Wainwright Instruments	WHK 3.1/18G-10SS	SN 8	NA	NA
ROHDE & SCHWARZ Spectrum Analyzer	FSV40	101042	Sep. 27, 2018	Sep. 26, 2019
Anritsu Power Sensor	MA2411B	0738404	Apr. 26, 2018	Apr. 25, 2019
Anritsu Power Meter	ML2495A	0842014	Apr. 26, 2018	Apr. 25, 2019

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 horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in Lin Kou Chamber No. 6.
4. The Industry Canada Reference No. 7450E-6.

4.1.3 Test Procedures

For Radiated emission below 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

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

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

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

For Radiated emission above 30MHz

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

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

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

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

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

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

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.

2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.

3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.

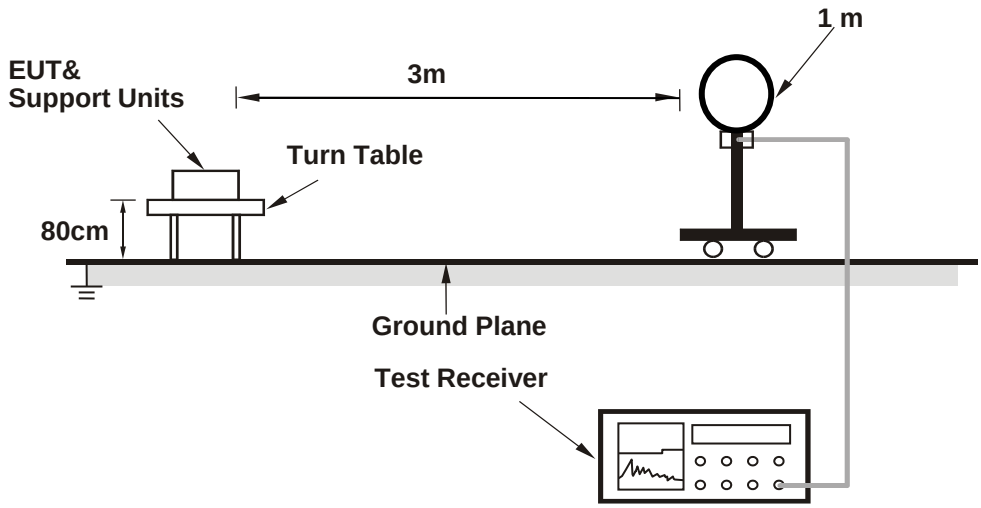
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

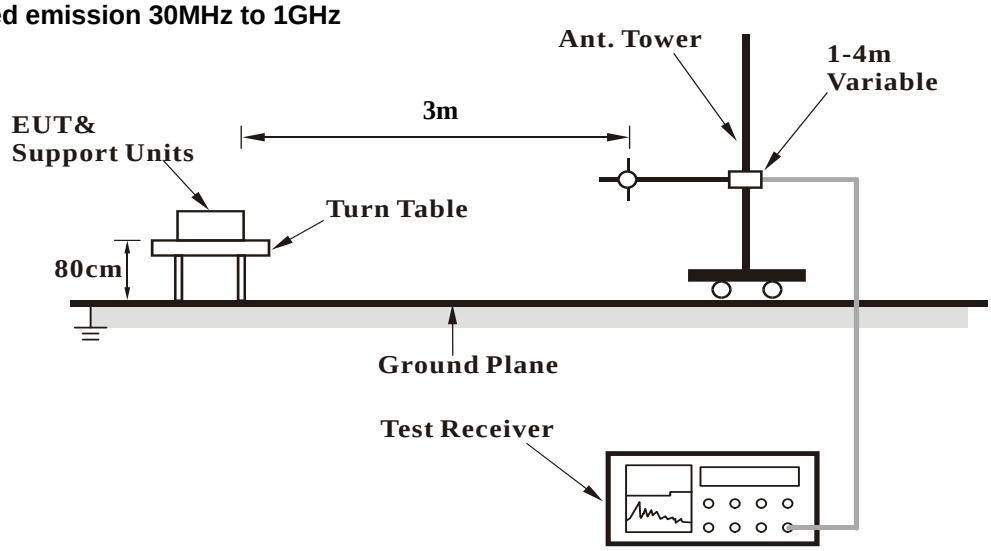
No deviation.

4.1.5 Test Setup

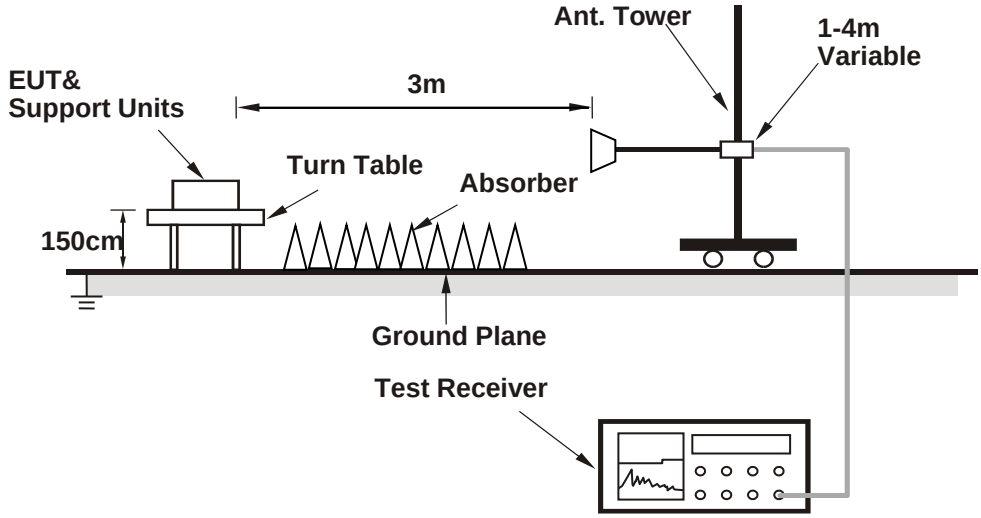
For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For Radiated emission above 1GHz



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

Test Mode	DutyCycle (%)	RBW (PK)	VBW (PK)	RBW (AV)	VBW (AV)
802.11a	98.02	1MHz	3MHz	1MHz	10Hz
802.11ac (VHT20)	96.9	1MHz	3MHz	1MHz	1kHz
802.11ac (VHT40)	95.2	1MHz	3MHz	1MHz	3kHz
802.11ac (VHT80)	92.3	1MHz	3MHz	1MHz	3kHz

4.1.6 EUT Operating Conditions

a. Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results for Fundamental and Harmonic above 1GHz

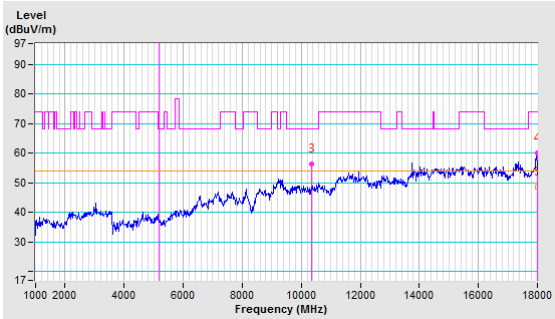
802.11a

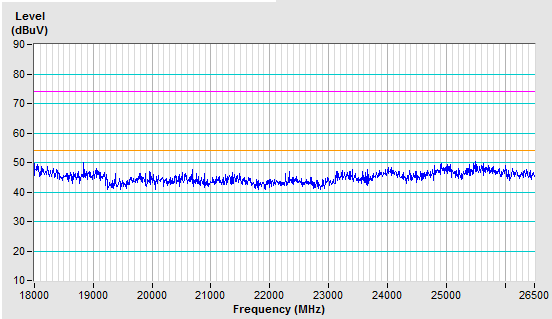
CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

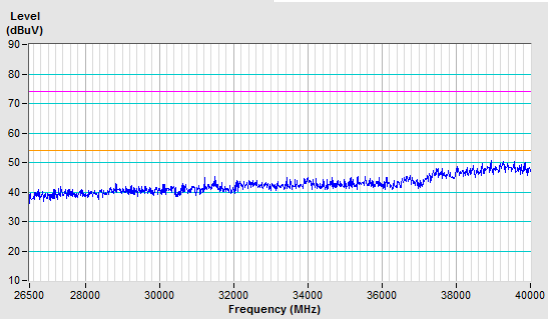
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5180.00	109.14 PK			1.00 H	320	104.09	5.05
2	*5180.00	98.44 AV			1.00 H	320	93.39	5.05
3	#10360.00	56.40 PK	68.20	-11.80	1.35 H	52	40.66	15.74
4	18000.00	59.98 PK	74.00	-14.02	2.55 H	261	37.50	22.48
5	18000.00	48.67 AV	54.00	-5.33	2.55 H	261	26.19	22.48

Remarks:

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





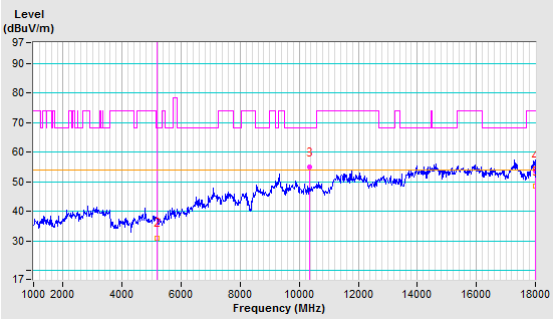


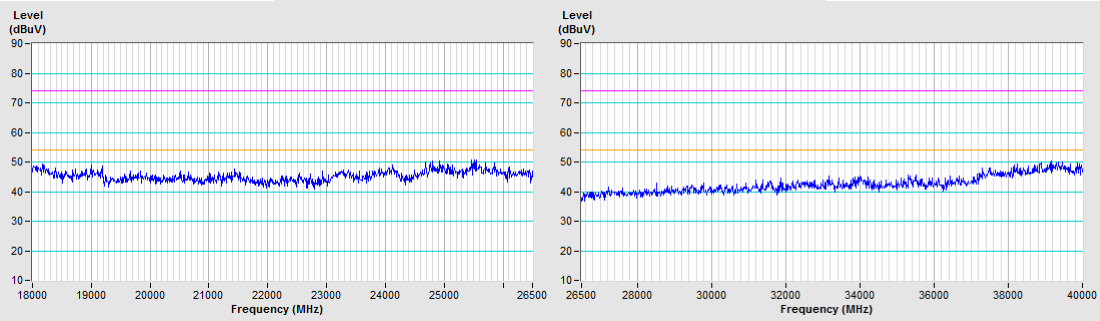
CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5180.00	104.40 PK			1.03 V	327	99.35	5.05
2	*5180.00	30.93 AV			1.03 V	327	25.88	5.05
3	#10360.00	54.86 PK	68.20	-13.34	1.53 V	102	39.12	15.74
4	18000.00	53.60 PK	74.00	-20.40	1.26 V	239	31.12	22.48
5	18000.00	48.36 AV	54.00	-5.64	1.26 V	239	25.88	22.48

Remarks:

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



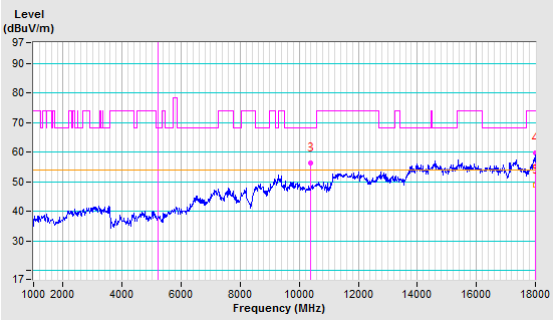


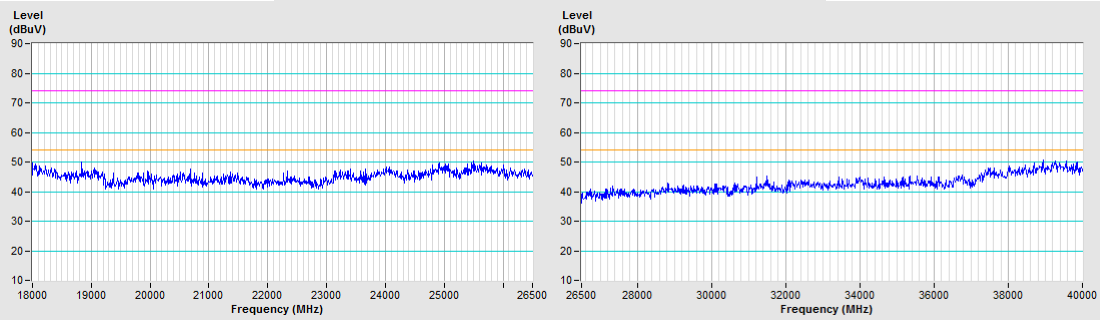
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	108.77 PK			1.21 H	334	103.87	4.90
2	*5200.00	97.89 AV			1.21 H	334	92.99	4.90
3	#10400.00	56.36 PK	68.20	-11.84	1.52 H	164	40.31	16.05
4	18000.00	59.79 PK	74.00	-14.21	2.58 H	244	37.31	22.48
5	18000.00	48.79 AV	54.00	-5.21	2.58 H	244	26.31	22.48

Remarks:

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



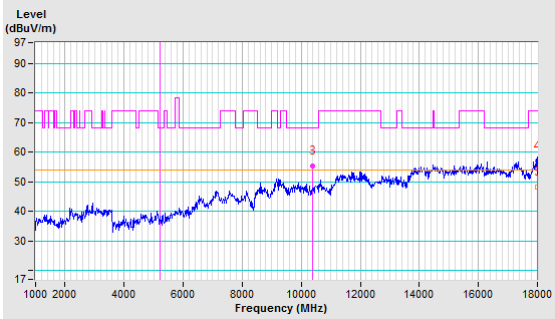


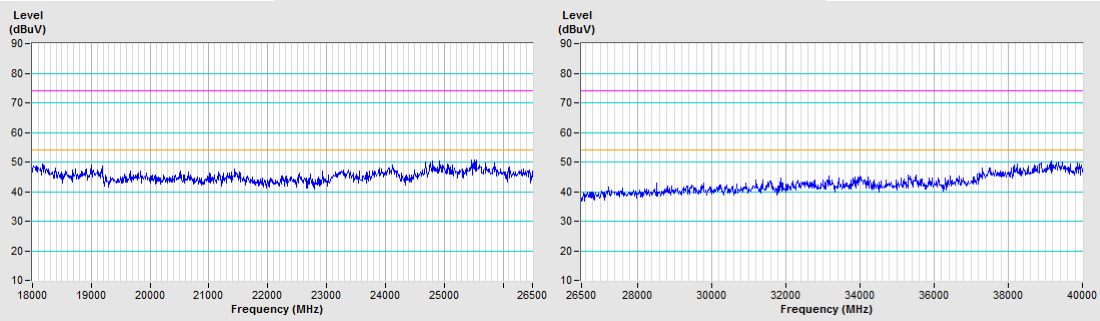
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	103.58 PK			1.21 V	356	98.68	4.90
2	*5200.00	104.00 AV			1.21 V	356	99.10	4.90
3	#10400.00	55.42 PK	68.20	-12.78	1.22 V	236	39.37	16.05
4	18000.00	57.01 PK	74.00	-16.99	1.84 V	157	34.53	22.48
5	18000.00	48.28 AV	54.00	-5.72	1.84 V	157	25.80	22.48

Remarks:

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



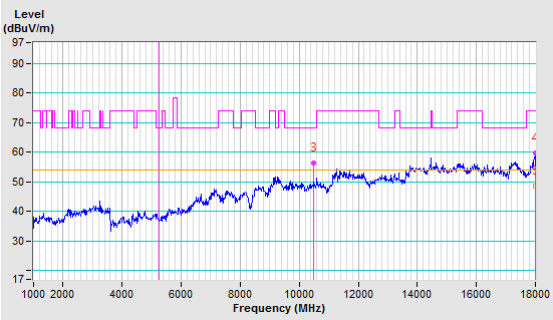


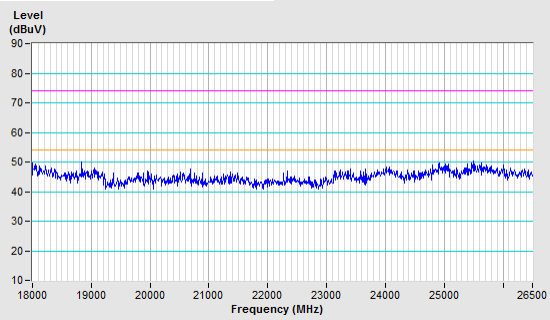
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

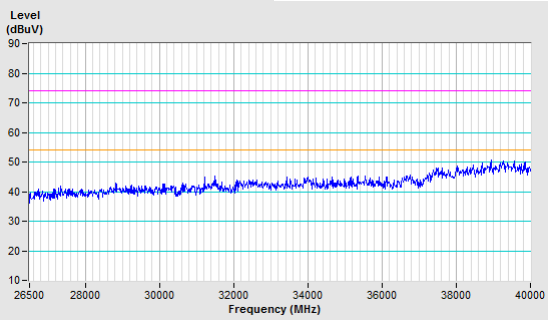
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	108.96 PK			1.02 H	321	104.31	4.65
2	*5240.00	98.26 AV			1.02 H	321	93.61	4.65
3	#10480.00	56.48 PK	68.20	-11.72	1.58 H	295	39.82	16.66
4	18000.00	59.75 PK	74.00	-14.25	2.77 H	288	37.27	22.48
5	18000.00	48.69 AV	54.00	-5.31	2.77 H	288	26.21	22.48

Remarks:

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





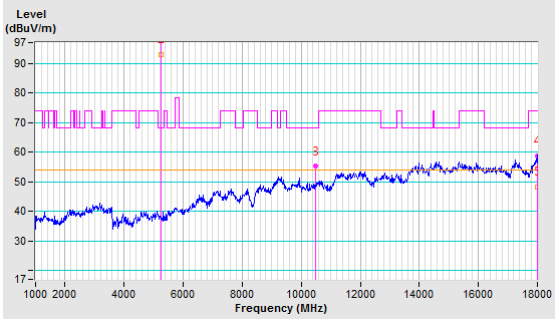


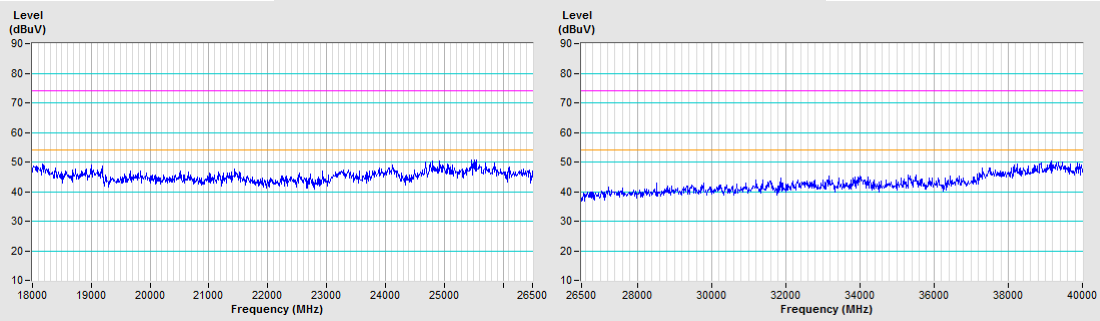
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	103.87 PK			1.19 V	352	99.22	4.65
2	*5240.00	92.85 AV			1.19 V	352	88.20	4.65
3	#10480.00	55.14 PK	68.20	-13.06	1.37 V	154	38.48	16.66
4	18000.00	58.70 PK	74.00	-15.30	1.62 V	142	36.22	22.48
5	18000.00	48.27 AV	54.00	-5.73	1.62 V	142	25.79	22.48

Remarks:

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



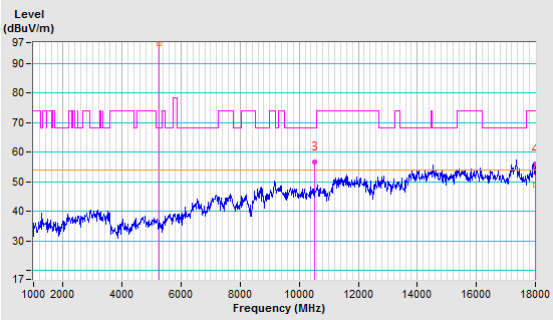


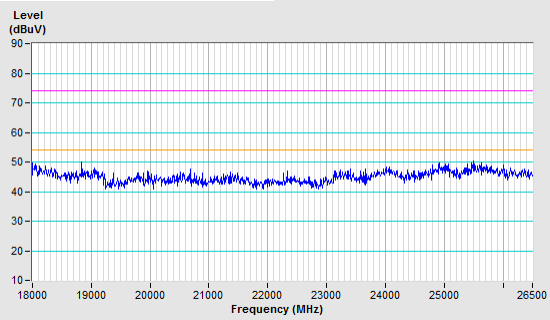
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

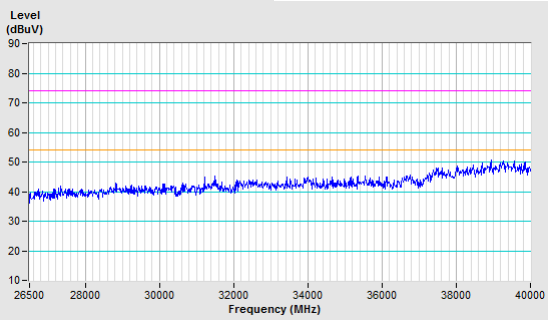
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	107.42 PK			1.06 H	319	102.90	4.52
2	*5260.00	96.54 AV			1.06 H	319	92.02	4.52
3	#10520.00	56.69 PK	68.20	-11.51	1.58 H	174	39.84	16.85
4	18000.00	55.91 PK	74.00	-18.09	2.36 H	251	33.43	22.48
5	18000.00	48.77 AV	54.00	-5.23	2.36 H	251	26.29	22.48

Remarks:

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





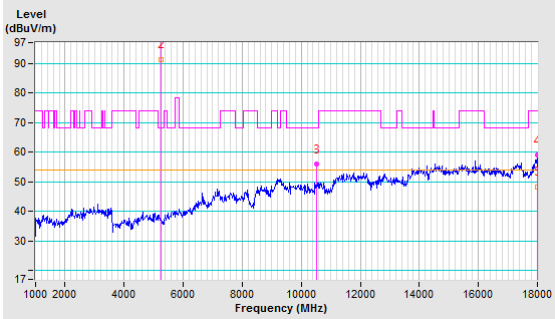


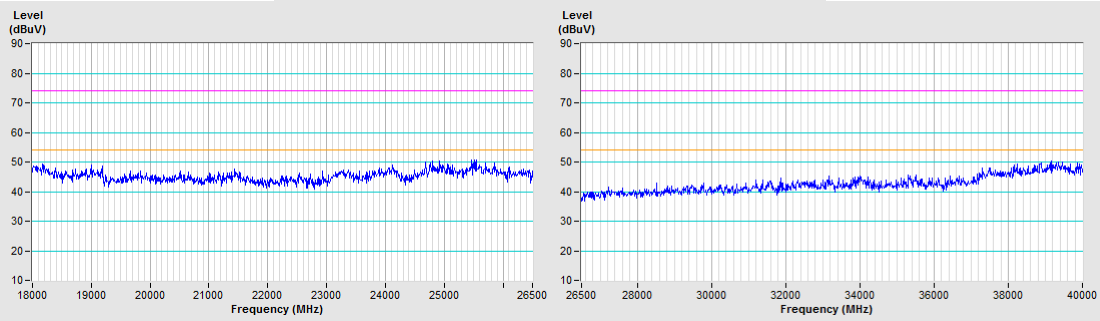
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	102.84 PK			1.38 V	346	98.32	4.52
2	*5260.00	91.36 AV			1.38 V	346	86.84	4.52
3	#10520.00	55.88 PK	68.20	-12.32	1.38 V	269	39.03	16.85
4	18000.00	58.91 PK	74.00	-15.09	1.44 V	123	36.43	22.48
5	18000.00	48.34 AV	54.00	-5.66	1.44 V	123	25.86	22.48

Remarks:

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



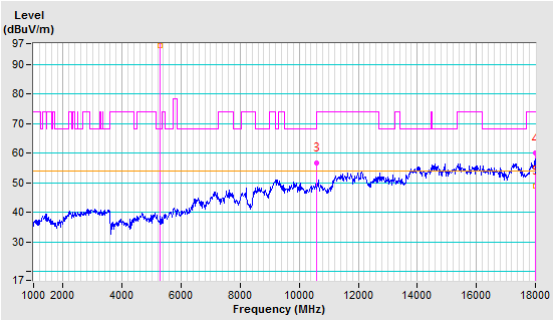


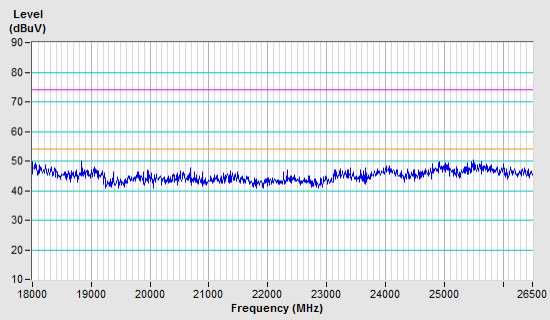
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

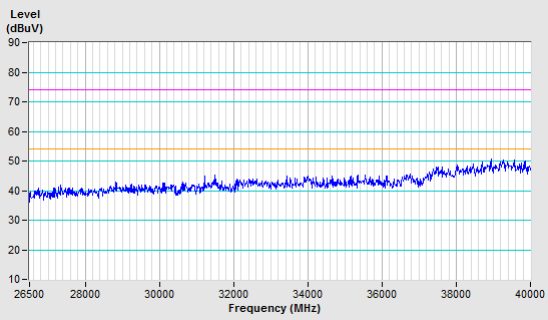
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.54 PK			1.08 H	323	103.22	4.32
2	*5300.00	96.46 AV			1.08 H	323	92.14	4.32
3	10600.00	56.68 PK	74.00	-17.32	1.22 H	279	39.71	16.97
4	18000.00	59.95 PK	74.00	-14.05	2.43 H	209	37.47	22.48
5	18000.00	48.82 AV	54.00	-5.18	2.43 H	209	26.34	22.48

Remarks:

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





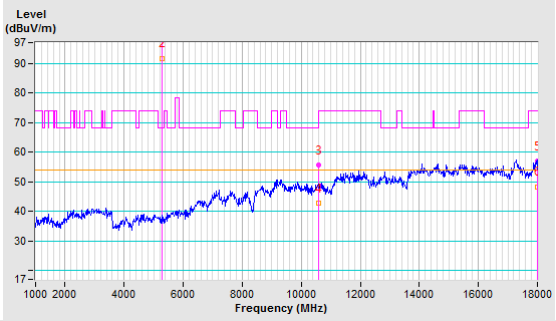


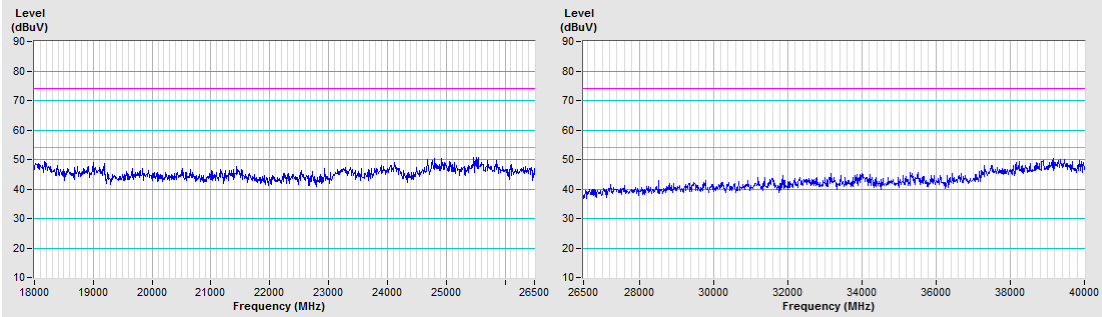
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	102.34 PK			1.49 V	352	98.02	4.32
2	*5300.00	91.52 AV			1.49 V	352	87.20	4.32
3	10600.00	55.48 PK	74.00	-18.52	1.29 V	288	38.51	16.97
4	10600.00	42.65 AV	54.00	-11.35	1.29 V	288	25.68	16.97
5	18000.00	56.84 PK	74.00	-17.16	1.24 V	177	34.36	22.48
6	18000.00	48.29 AV	54.00	-5.71	1.24 V	177	25.81	22.48

Remarks:

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



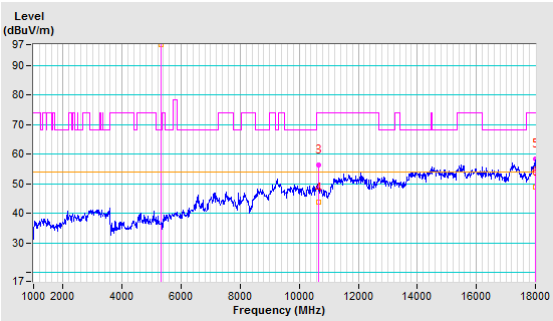


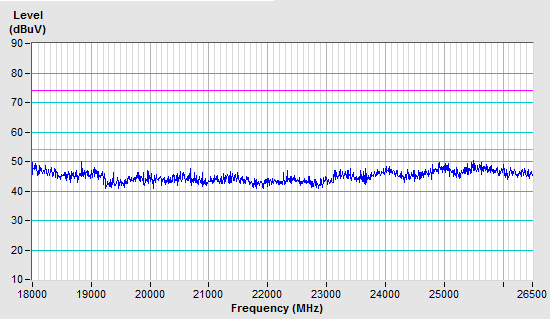
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

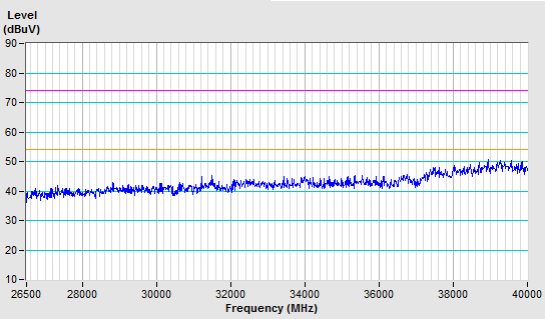
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	107.69 PK			1.08 H	315	103.31	4.38
2	*5320.00	96.89 AV			1.08 H	315	92.51	4.38
3	10640.00	56.32 PK	74.00	-17.68	1.79 H	44	39.66	16.66
4	10640.00	43.64 AV	54.00	-10.36	1.79 H	44	26.98	16.66
5	18000.00	58.37 PK	74.00	-15.63	2.55 H	266	35.89	22.48
6	18000.00	48.93 AV	54.00	-5.07	2.55 H	266	26.45	22.48

Remarks:

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





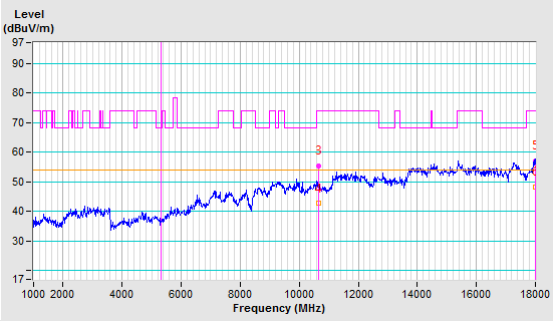


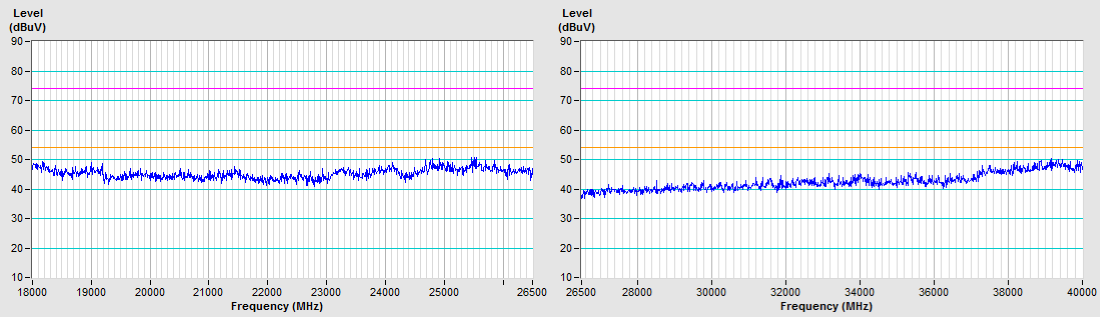
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	102.55 PK			1.46 V	342	98.17	4.38
2	*5320.00	102.55 AV			1.46 V	342	98.17	4.38
3	10640.00	55.24 PK	74.00	-18.76	1.59 V	199	38.58	16.66
4	10640.00	42.66 AV	54.00	-11.34	1.59 V	199	26.00	16.66
5	18000.00	57.12 PK	74.00	-16.88	1.48 V	161	34.64	22.48
6	18000.00	48.30 AV	54.00	-5.70	1.48 V	161	25.82	22.48

Remarks:

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



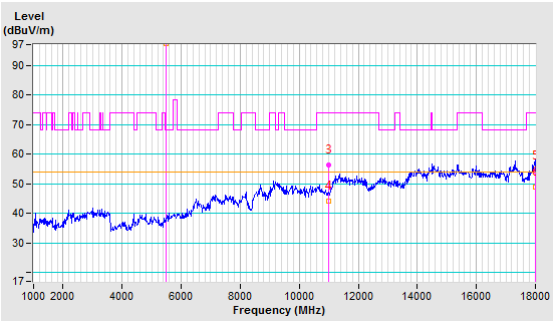


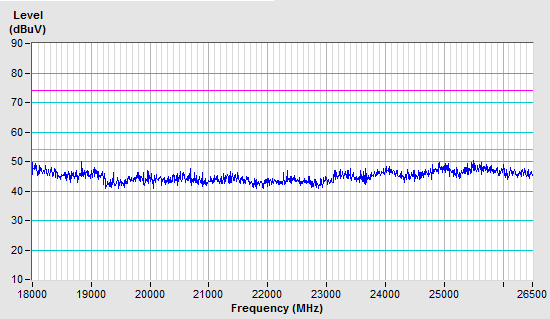
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

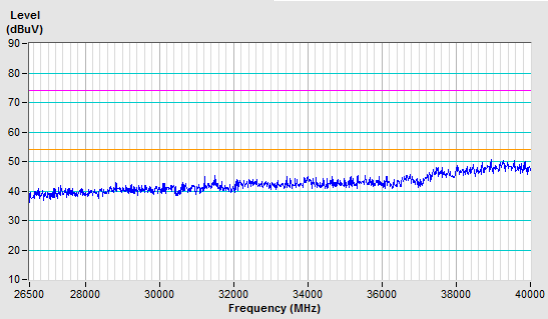
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5500.00	108.73 PK			1.27 H	341	104.26	4.47
2	*5500.00	97.29 AV			1.27 H	341	92.82	4.47
3	11000.00	56.34 PK	74.00	-17.66	1.34 H	265	39.92	16.42
4	11000.00	44.25 AV	54.00	-9.75	1.34 H	265	27.83	16.42
5	18000.00	54.21 PK	74.00	-19.79	2.66 H	133	31.73	22.48
6	18000.00	48.96 AV	54.00	-5.04	2.66 H	133	26.48	22.48

Remarks:

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





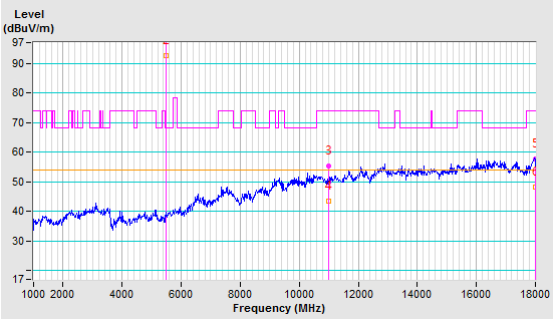


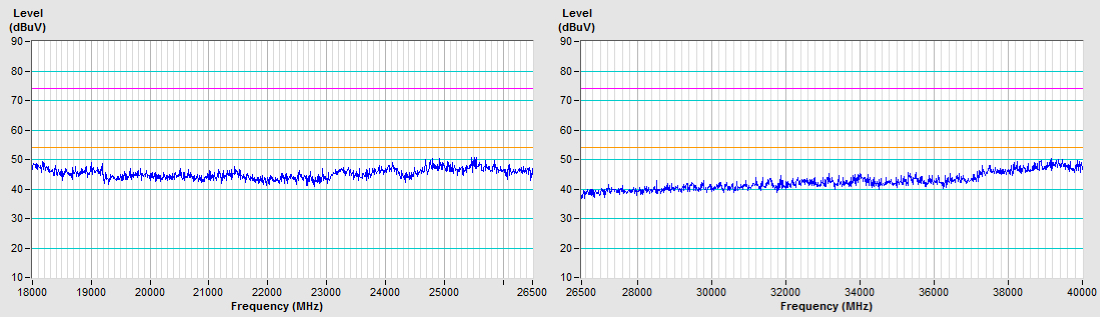
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5500.00	103.67 PK			1.53 V	353	99.20	4.47
2	*5500.00	92.58 AV			1.53 V	353	88.11	4.47
3	11000.00	55.25 PK	74.00	-18.75	1.78 V	241	38.83	16.42
4	11000.00	43.39 AV	54.00	-10.61	1.78 V	241	26.97	16.42
5	18000.00	57.80 PK	74.00	-16.20	1.62 V	138	35.32	22.48
6	18000.00	48.25 AV	54.00	-5.75	1.62 V	138	25.77	22.48

Remarks:

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



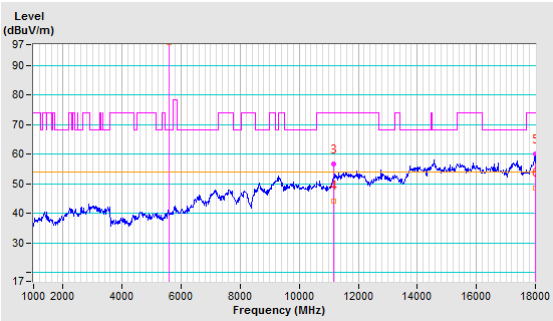


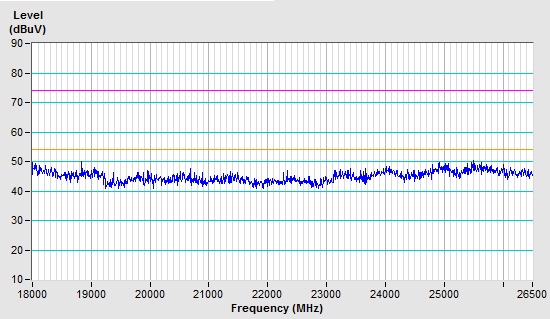
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

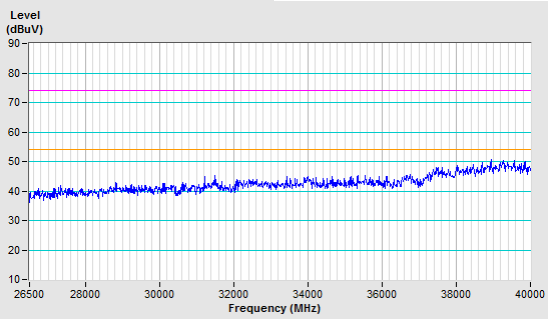
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	108.77 PK			1.24 H	339	103.94	4.83
2	*5580.00	97.68 AV			1.24 H	339	92.85	4.83
3	11160.00	56.54 PK	74.00	-17.46	1.28 H	189	39.50	17.04
4	11160.00	44.28 AV	54.00	-9.72	1.28 H	189	27.24	17.04
5	18000.00	59.95 PK	74.00	-14.05	2.44 H	231	37.47	22.48
6	18000.00	48.66 AV	54.00	-5.34	2.44 H	231	26.18	22.48

Remarks:

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





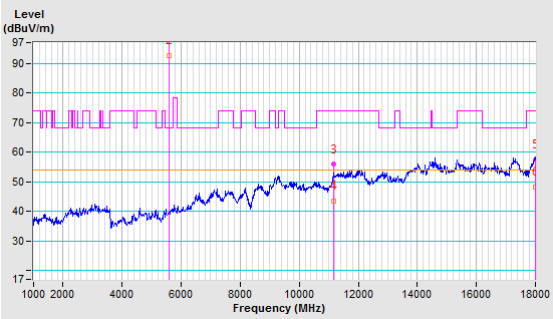


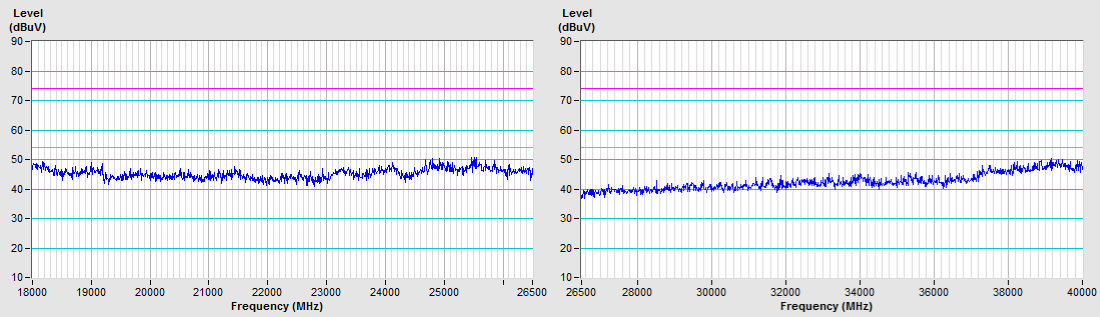
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	103.84 PK			1.49 V	349	99.01	4.83
2	*5580.00	92.63 AV			1.49 V	349	87.80	4.83
3	11160.00	55.84 PK	74.00	-18.16	1.59 V	36	38.80	17.04
4	11160.00	43.38 AV	54.00	-10.62	1.59 V	36	26.34	17.04
5	18000.00	57.40 PK	74.00	-16.60	1.37 V	152	34.92	22.48
6	18000.00	48.19 AV	54.00	-5.81	1.37 V	152	25.71	22.48

Remarks:

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



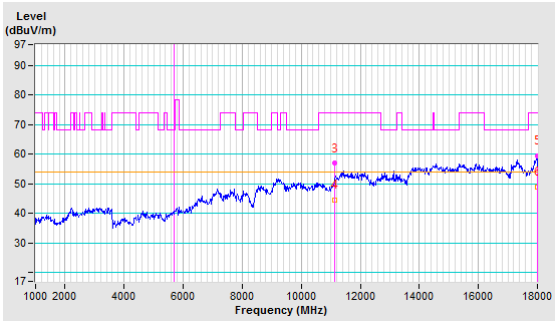


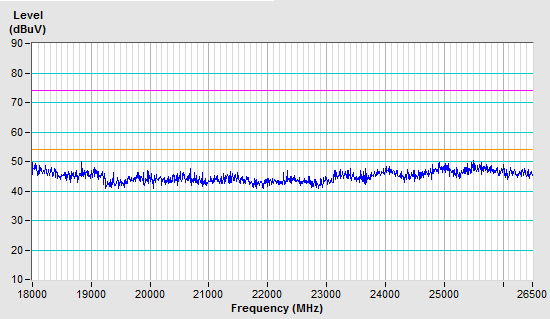
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

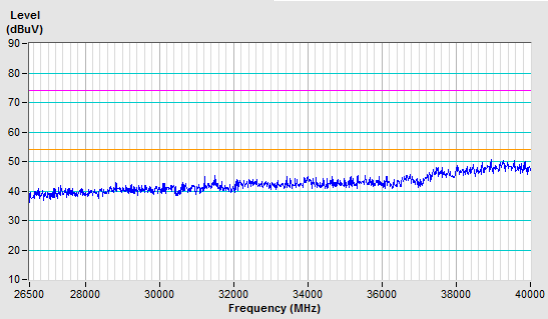
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	109.88 PK			1.07 H	345	104.59	5.29
2	*5700.00	98.63 AV			1.07 H	345	93.34	5.29
3	11140.00	56.84 PK	74.00	-17.16	1.33 H	68	39.83	17.01
4	11140.00	44.61 AV	54.00	-9.39	1.33 H	68	27.60	17.01
5	18000.00	59.45 PK	74.00	-14.55	2.33 H	267	36.97	22.48
6	18000.00	48.84 AV	54.00	-5.16	2.33 H	267	26.36	22.48

Remarks:

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





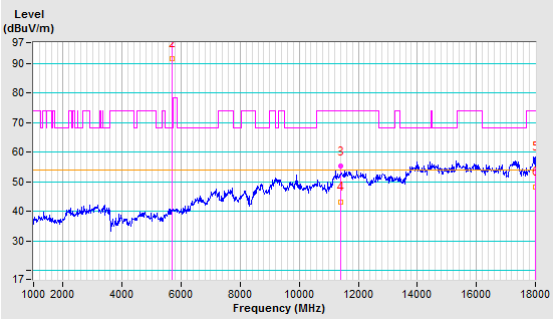


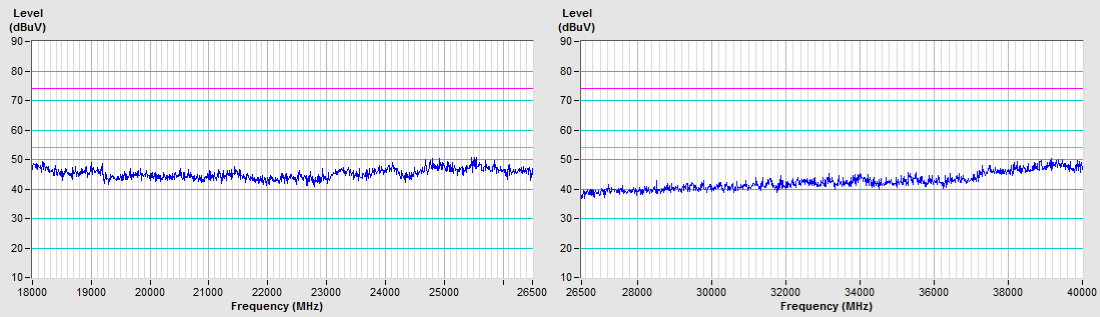
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	102.51 PK			1.53 V	354	97.22	5.29
2	*5700.00	91.69 AV			1.53 V	354	86.40	5.29
3	11400.00	55.18 PK	74.00	-18.82	1.99 V	295	38.34	16.84
4	11400.00	43.08 AV	54.00	-10.92	1.99 V	295	26.24	16.84
5	18000.00	56.65 PK	74.00	-17.35	1.27 V	181	34.17	22.48
6	18000.00	48.13 AV	54.00	-5.87	1.27 V	181	25.65	22.48

Remarks:

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



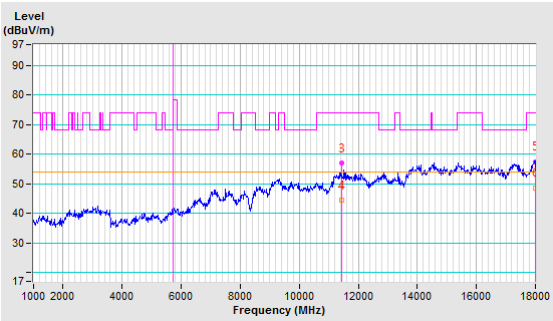


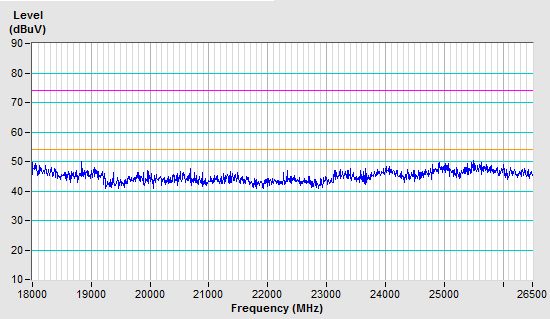
CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

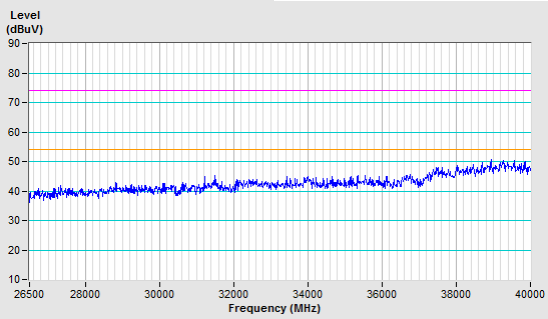
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	109.45 PK			1.29 H	286	104.01	5.44
2	*5720.00	98.70 AV			1.29 H	286	93.26	5.44
3	11440.00	56.84 PK	74.00	-17.16	1.82 H	231	39.81	17.03
4	11440.00	44.31 AV	54.00	-9.69	1.82 H	231	27.28	17.03
5	18000.00	57.31 PK	74.00	-16.69	2.67 H	254	34.83	22.48
6	18000.00	48.58 AV	54.00	-5.42	2.67 H	254	26.10	22.48

Remarks:

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





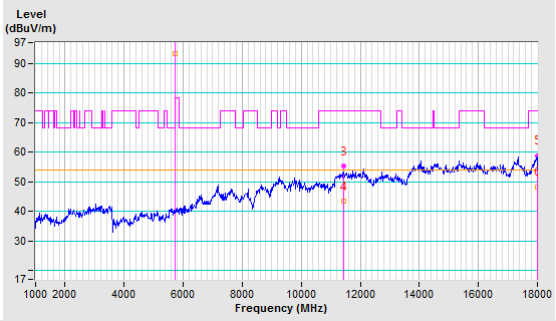


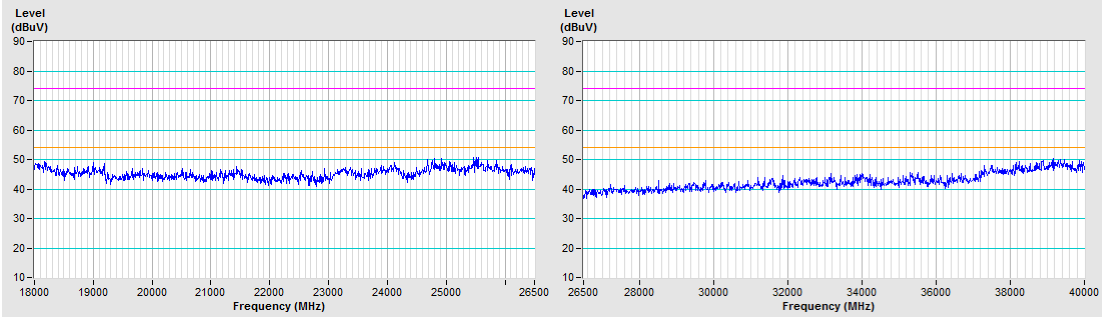
CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	104.25 PK			1.57 V	342	98.81	5.44
2	*5720.00	93.22 AV			1.57 V	342	87.78	5.44
3	11440.00	55.19 PK	74.00	-18.81	1.41 V	125	38.16	17.03
4	11440.00	43.31 AV	54.00	-10.69	1.41 V	125	26.28	17.03
5	18000.00	58.62 PK	74.00	-15.38	1.77 V	154	36.14	22.48
6	18000.00	48.23 AV	54.00	-5.77	1.77 V	154	25.75	22.48

Remarks:

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



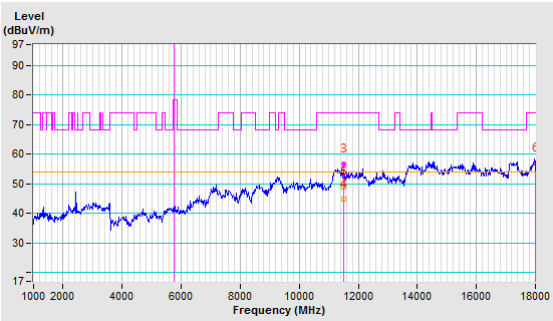


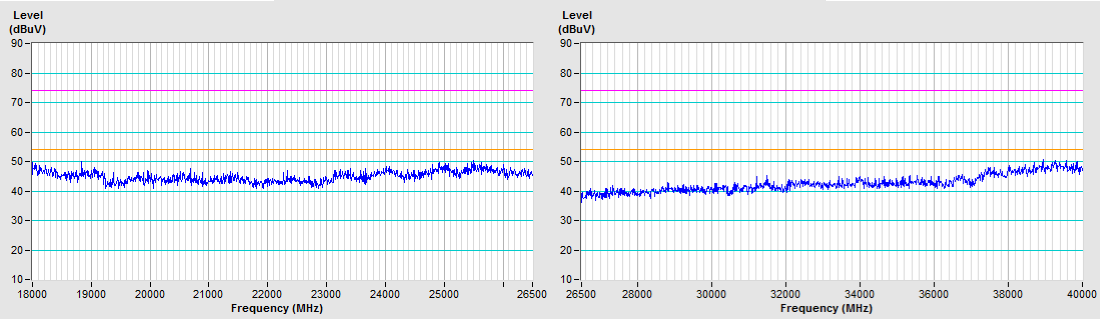
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	108.52 PK			1.00 H	347	102.91	5.61
2	*5745.00	98.25 AV			1.00 H	347	92.64	5.61
3	11490.00	56.81 PK	74.00	-17.19	1.84 H	265	39.55	17.26
4	11490.00	44.95 AV	54.00	-9.05	1.84 H	265	27.69	17.26
5	11490.00	48.78 AV	54.00	-5.22	2.63 H	241	31.52	17.26
6	18000.00	56.99 PK	74.00	-17.01	2.63 H	241	34.51	22.48

Remarks:

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



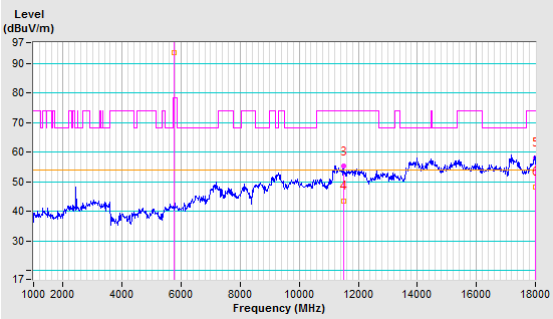


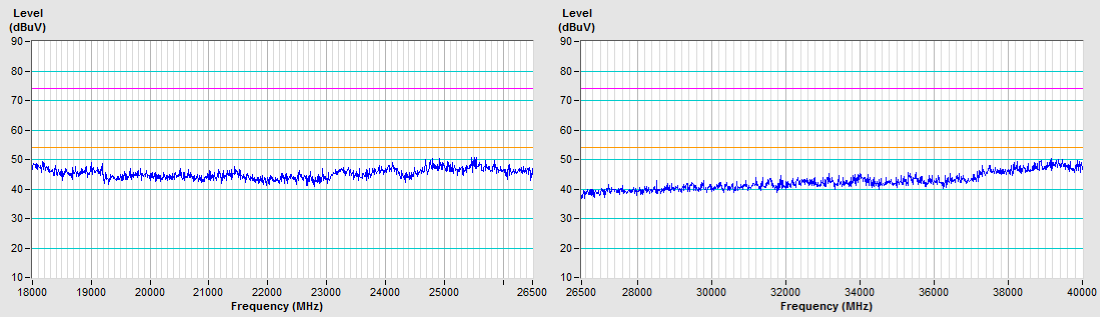
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5745.00	103.59 PK			1.44 V	356	97.98	5.61
2	*5745.00	93.58 AV			1.44 V	356	87.97	5.61
3	11490.00	55.18 PK	74.00	-18.82	1.99 V	296	37.92	17.26
4	11490.00	43.37 AV	54.00	-10.63	1.99 V	296	26.11	17.26
5	18000.00	58.12 PK	74.00	-15.88	1.62 V	220	35.64	22.48
6	18000.00	48.23 AV	54.00	-5.77	1.62 V	220	25.75	22.48

Remarks:

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



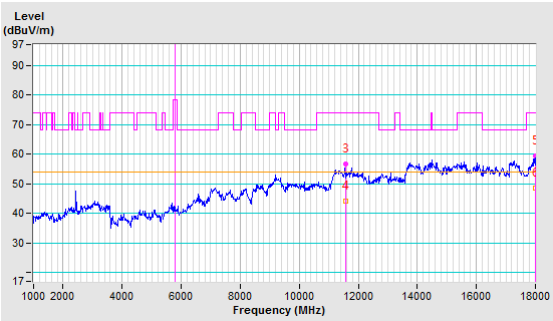


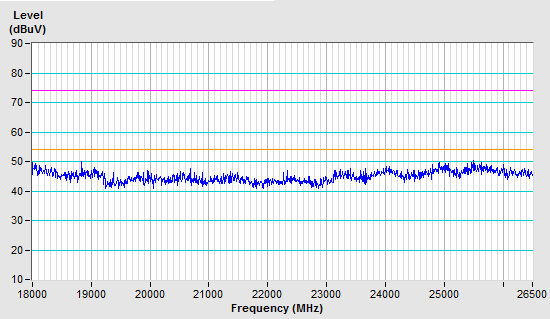
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

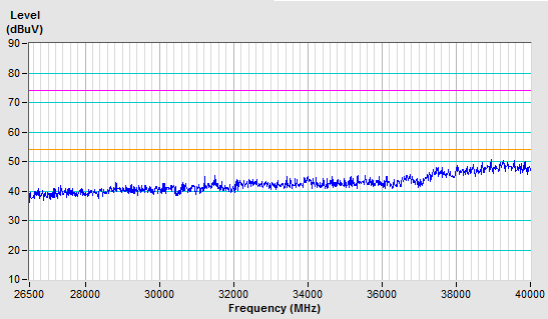
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	108.49 PK			1.02 H	341	102.59	5.90
2	*5785.00	98.67 AV			1.02 H	341	92.77	5.90
3	11570.00	56.82 PK	74.00	-17.18	1.66 H	223	39.46	17.36
4	11570.00	44.08 AV	54.00	-9.92	1.66 H	223	26.72	17.36
5	18000.00	59.43 PK	74.00	-14.57	2.58 H	217	36.95	22.48
6	18000.00	48.69 AV	54.00	-5.31	2.58 H	217	26.21	22.48

Remarks:

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





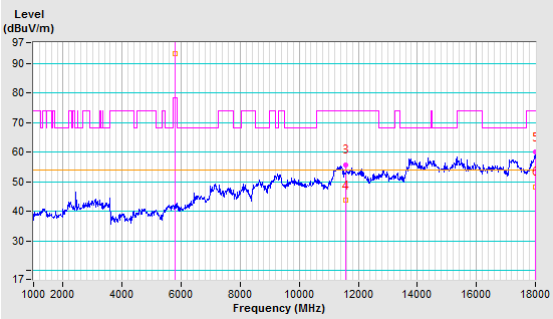


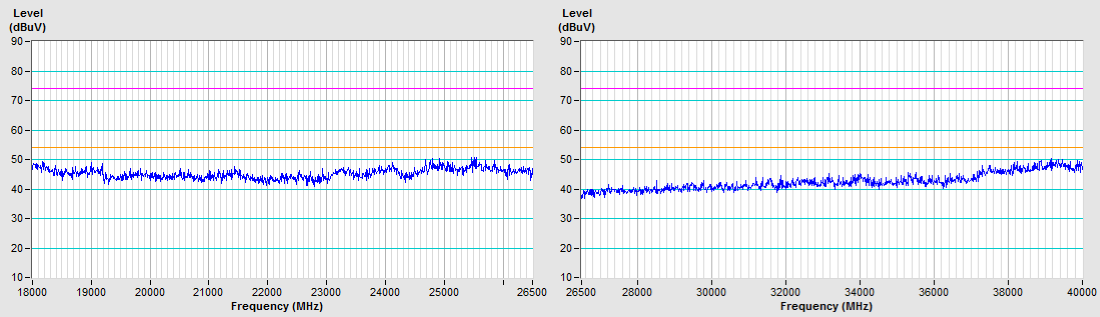
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5785.00	103.48 PK			1.51 V	357	97.58	5.90
2	*5785.00	93.25 AV			1.51 V	357	87.35	5.90
3	11570.00	55.81 PK	74.00	-18.19	2.01 V	225	38.45	17.36
4	11570.00	43.67 AV	54.00	-10.33	2.01 V	225	26.31	17.36
5	18000.00	59.93 PK	74.00	-14.07	1.96 V	201	37.45	22.48
6	18000.00	48.13 AV	54.00	-5.87	1.96 V	201	25.65	22.48

Remarks:

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



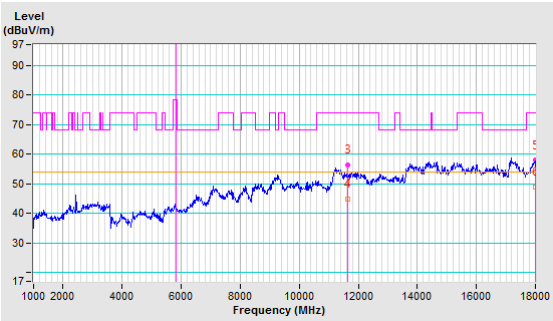


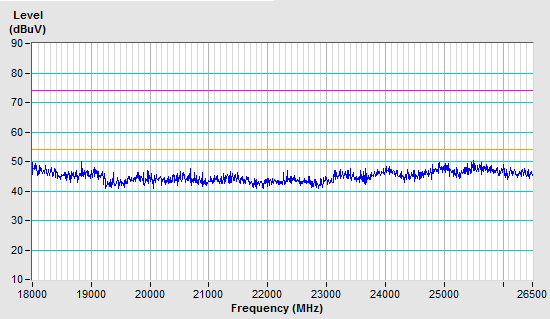
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

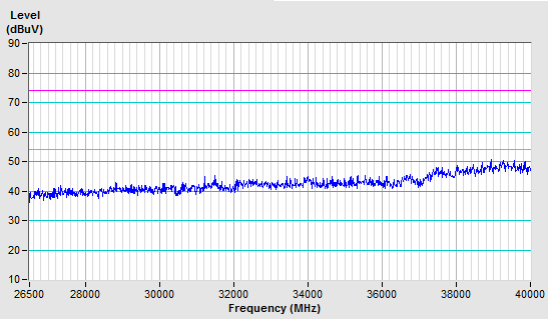
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	108.96 PK			2.71 H	228	102.85	6.11
2	*5825.00	98.85 AV			2.71 H	228	92.74	6.11
3	11650.00	56.34 PK	74.00	-17.66	1.37 H	241	39.19	17.15
4	11650.00	44.94 AV	54.00	-9.06	1.37 H	241	27.79	17.15
5	18000.00	57.85 PK	74.00	-16.15	2.71 H	228	35.37	22.48
6	18000.00	48.86 AV	54.00	-5.14	2.71 H	228	26.38	22.48

Remarks:

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





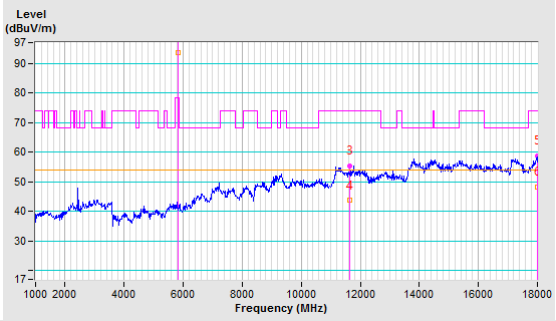


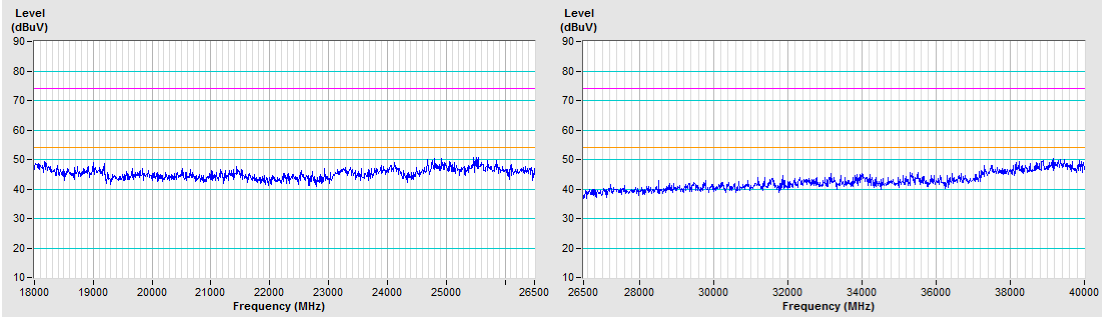
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	103.77 PK			1.54 V	348	97.66	6.11
2	*5825.00	93.61 AV			1.54 V	348	87.50	6.11
3	11650.00	55.27 PK	74.00	-18.73	1.84 V	127	38.12	17.15
4	11650.00	43.63 AV	54.00	-10.37	1.84 V	127	26.48	17.15
5	18000.00	58.75 PK	74.00	-15.25	1.66 V	142	36.27	22.48
6	18000.00	48.11 AV	54.00	-5.89	1.66 V	142	25.63	22.48

Remarks:

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





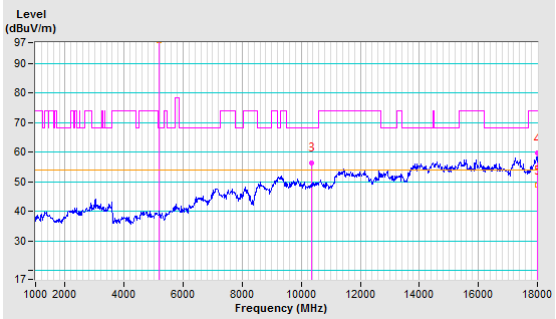
802.11n (HT20)

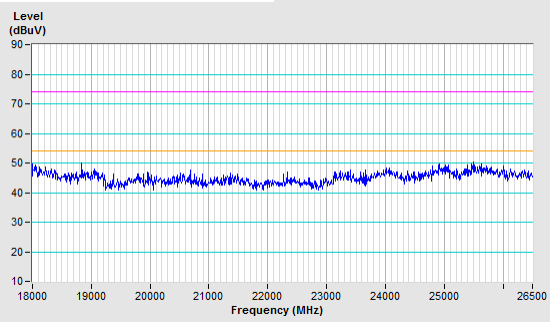
CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

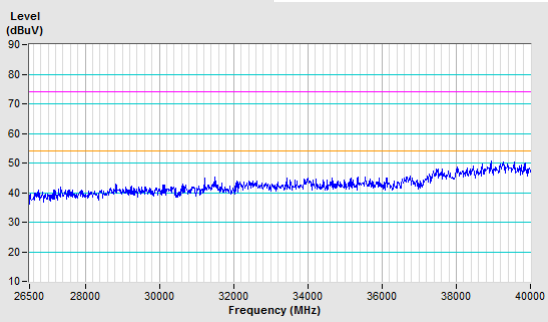
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5180.00	109.43 PK			1.36 H	315	104.38	5.05
2	*5180.00	97.55 AV			1.36 H	315	92.50	5.05
3	#10360.00	56.46 PK	68.20	-11.74	1.33 H	321	40.72	15.74
4	18000.00	59.59 PK	74.00	-14.41	2.51 H	271	37.11	22.48
5	18000.00	48.75 AV	54.00	-5.25	2.51 H	271	26.27	22.48

Remarks:

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





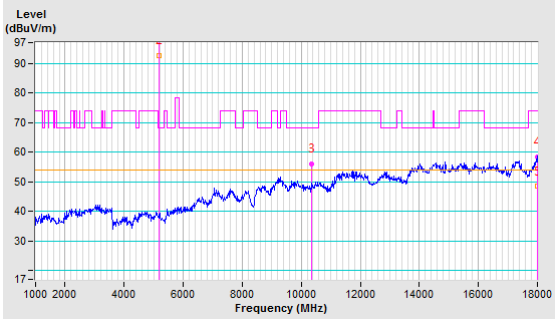


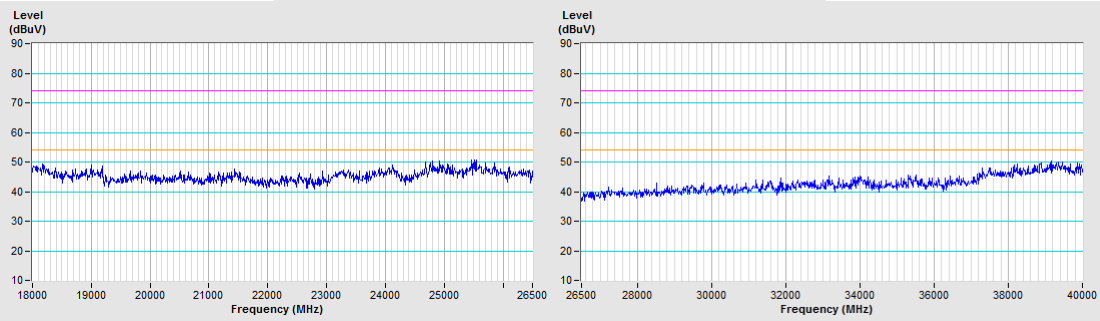
CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5180.00	104.26 PK			1.52 V	348	99.21	5.05
2	*5180.00	92.69 AV			1.52 V	348	87.64	5.05
3	#10360.00	55.94 PK	68.20	-12.26	1.69 V	338	40.20	15.74
4	18000.00	58.44 PK	74.00	-15.56	1.56 V	138	35.96	22.48
5	18000.00	48.43 AV	54.00	-5.57	1.56 V	138	25.95	22.48

Remarks:

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



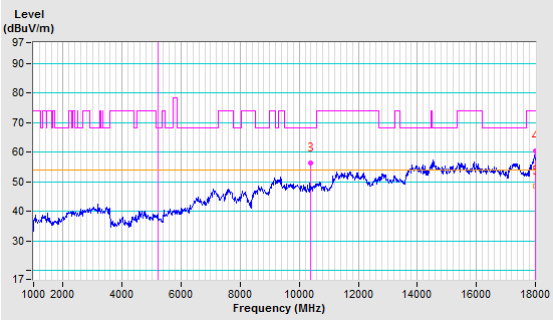


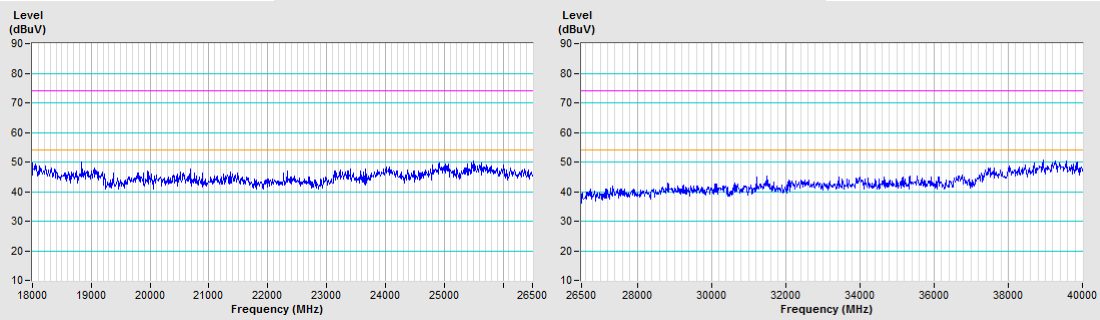
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	109.34 PK			1.29 H	313	104.44	4.90
2	*5200.00	97.86 AV			1.29 H	313	92.96	4.90
3	#10400.00	56.44 PK	68.20	-11.76	1.27 H	49	40.39	16.05
4	18000.00	60.38 PK	74.00	-13.62	2.55 H	261	37.90	22.48
5	18000.00	48.67 AV	54.00	-5.33	2.55 H	261	26.19	22.48

Remarks:

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



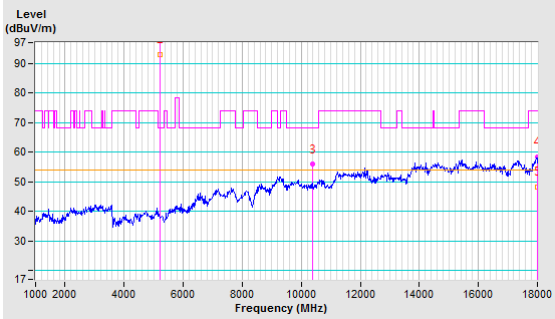


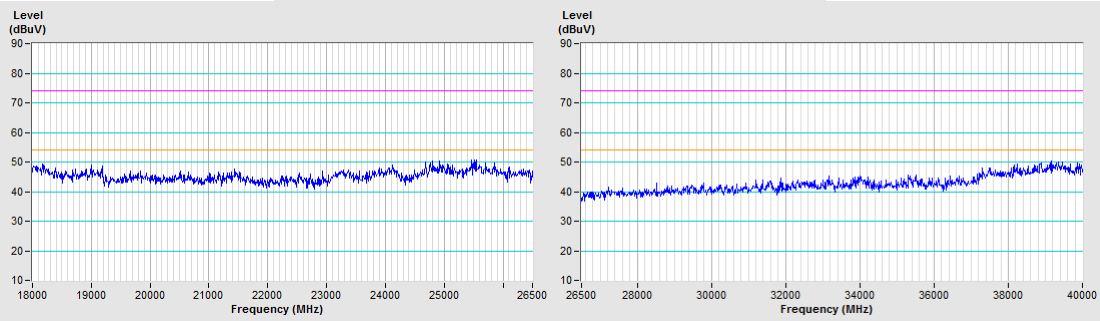
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	104.79 PK			1.46 V	344	99.89	4.90
2	*5200.00	92.89 AV			1.46 V	344	87.99	4.90
3	#10400.00	55.84 PK	68.20	-12.36	1.67 V	258	39.79	16.05
4	18000.00	58.45 PK	74.00	-15.55	1.46 V	200	35.97	22.48
5	18000.00	48.28 AV	54.00	-5.72	1.46 V	200	25.80	22.48

Remarks:

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



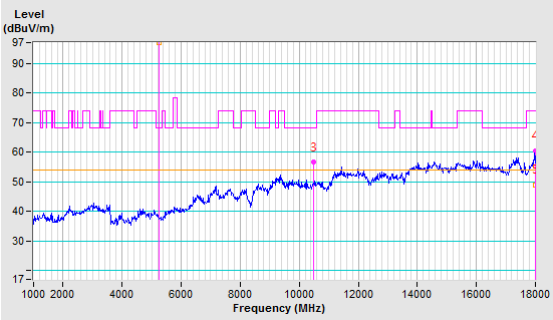


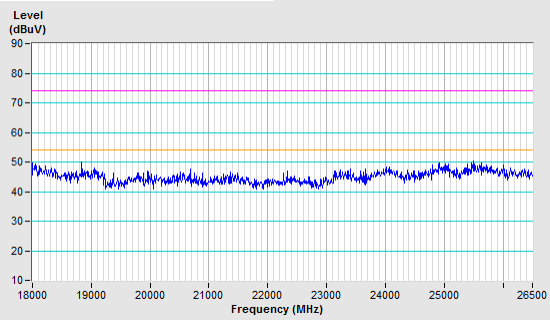
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

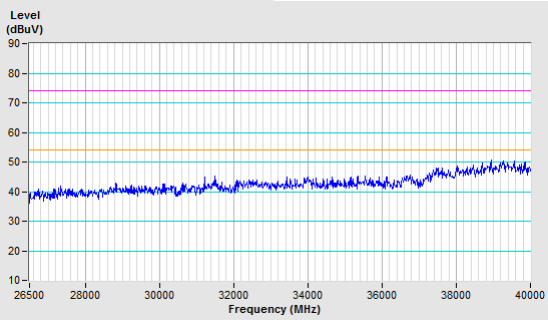
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	109.36 PK			1.33 H	320	104.71	4.65
2	*5240.00	97.05 AV			1.33 H	320	92.40	4.65
3	#10480.00	56.52 PK	68.20	-11.68	1.69 H	332	39.86	16.66
4	18000.00	60.47 PK	74.00	-13.53	2.60 H	278	37.99	22.48
5	18000.00	48.88 AV	54.00	-5.12	2.60 H	278	26.40	22.48

Remarks:

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





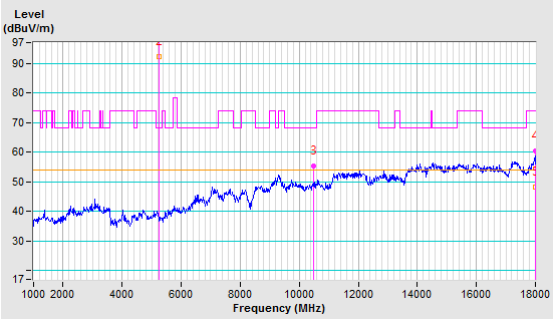


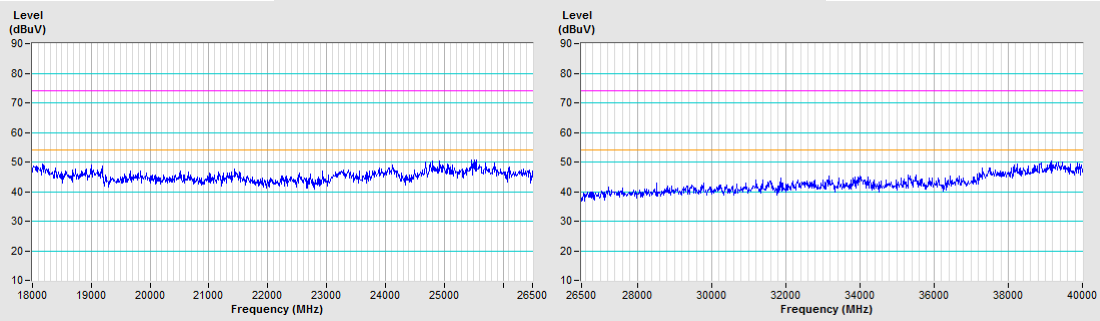
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	104.62 PK			1.48 V	349	99.97	4.65
2	*5240.00	92.39 AV			1.48 V	349	87.74	4.65
3	#10480.00	55.29 PK	68.20	-12.91	1.81 V	241	38.63	16.66
4	18000.00	60.39 PK	74.00	-13.61	1.37 V	142	37.91	22.48
5	18000.00	48.31 AV	54.00	-5.69	1.37 V	142	25.83	22.48

Remarks:

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



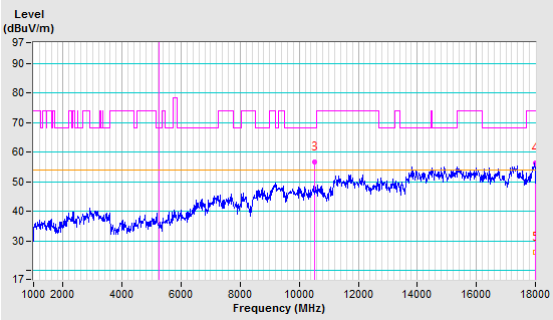


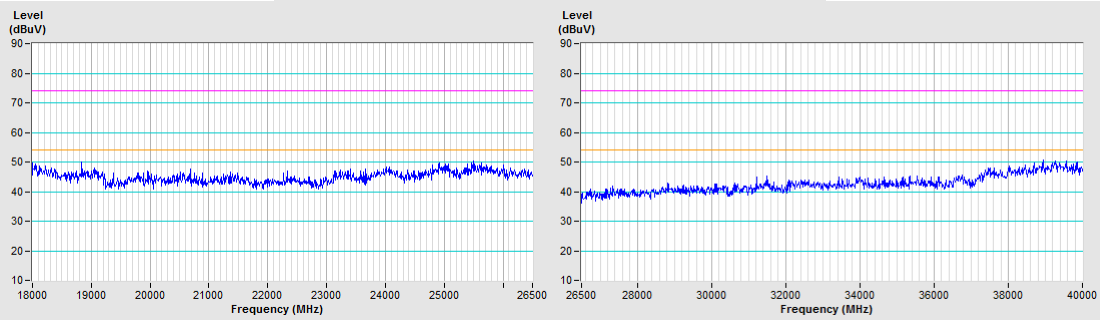
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	109.63 PK			1.03 H	292	105.11	4.52
2	*5260.00	97.91 AV			1.03 H	292	93.39	4.52
3	#10520.00	56.80 PK	68.20	-11.40	1.33 H	269	39.95	16.85
4	18000.00	56.24 PK	74.00	-17.76	2.67 H	283	33.76	22.48
5	18000.00	26.26 AV	54.00	-27.74	2.67 H	283	3.78	22.48

Remarks:

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



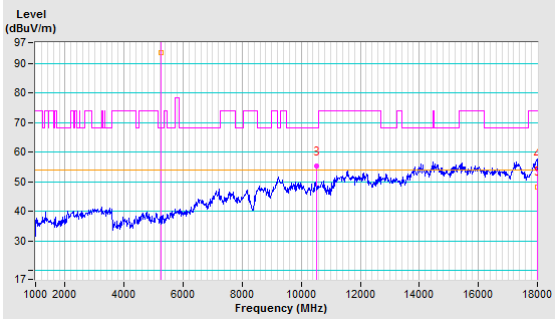


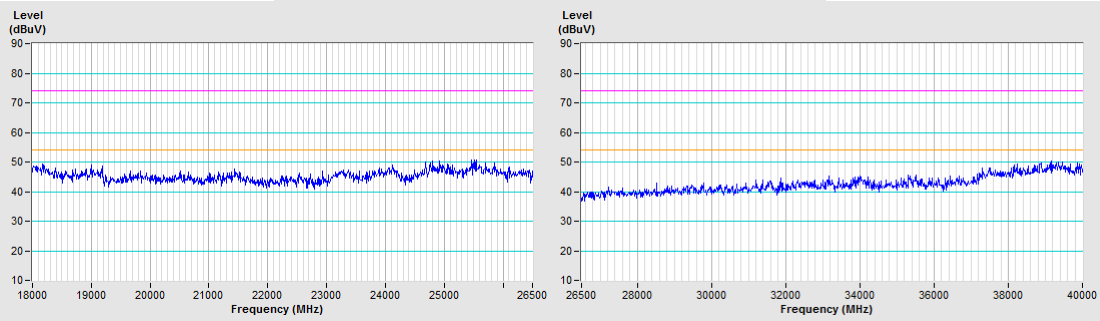
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	105.84 PK			1.38 V	339	101.32	4.52
2	*5260.00	93.66 AV			1.38 V	339	89.14	4.52
3	#10520.00	55.22 PK	68.20	-12.98	1.84 V	241	38.37	16.85
4	18000.00	54.26 PK	74.00	-19.74	1.29 V	233	31.78	22.48
5	18000.00	48.30 AV	54.00	-5.70	1.29 V	233	25.82	22.48

Remarks:

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



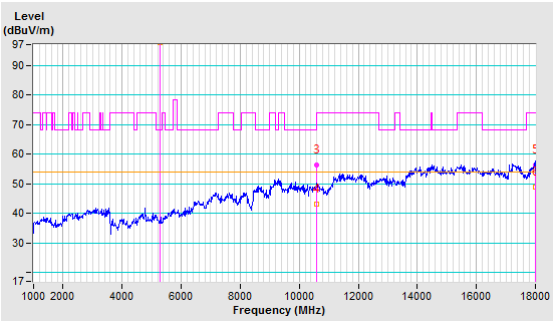


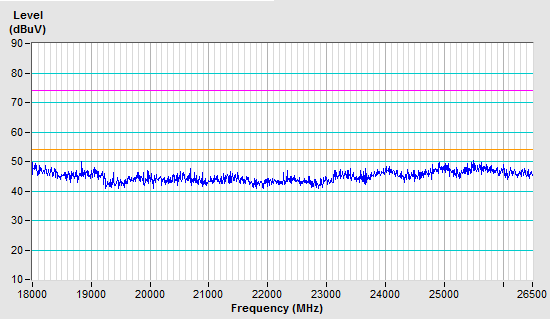
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

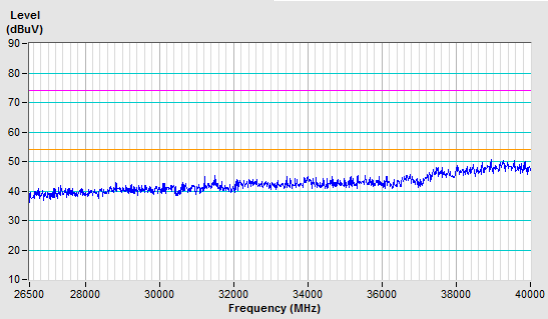
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	109.66 PK			1.06 H	298	105.34	4.32
2	*5300.00	97.82 AV			1.06 H	298	93.50	4.32
3	10600.00	56.34 PK	74.00	-17.66	1.82 H	291	39.37	16.97
4	10600.00	43.18 AV	54.00	-10.82	1.82 H	291	26.21	16.97
5	18000.00	56.26 PK	74.00	-17.74	2.97 H	283	33.78	22.48
6	18000.00	48.86 AV	54.00	-5.14	2.97 H	283	26.38	22.48

Remarks:

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





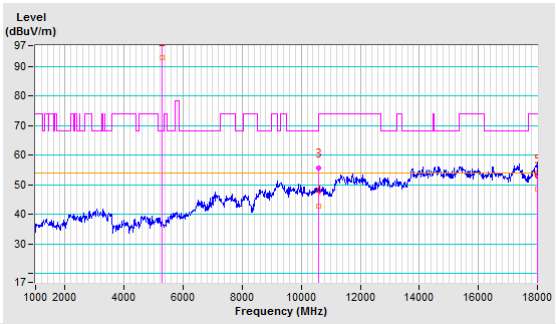


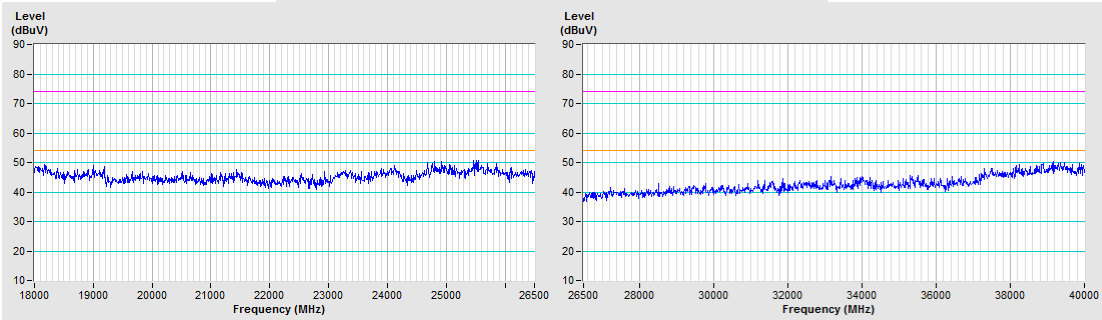
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	104.66 PK			1.41 V	342	100.34	4.32
2	*5300.00	92.85 AV			1.41 V	342	88.53	4.32
3	10600.00	55.48 PK	74.00	-18.52	1.72 V	217	38.51	16.97
4	10600.00	42.81 AV	54.00	-11.19	1.72 V	217	25.84	16.97
5	18000.00	53.22 PK	74.00	-20.78	1.30 V	165	30.74	22.48
6	18000.00	48.39 AV	54.00	-5.61	1.30 V	165	25.91	22.48

Remarks:

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



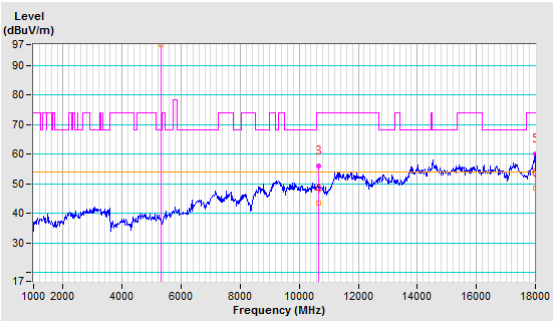


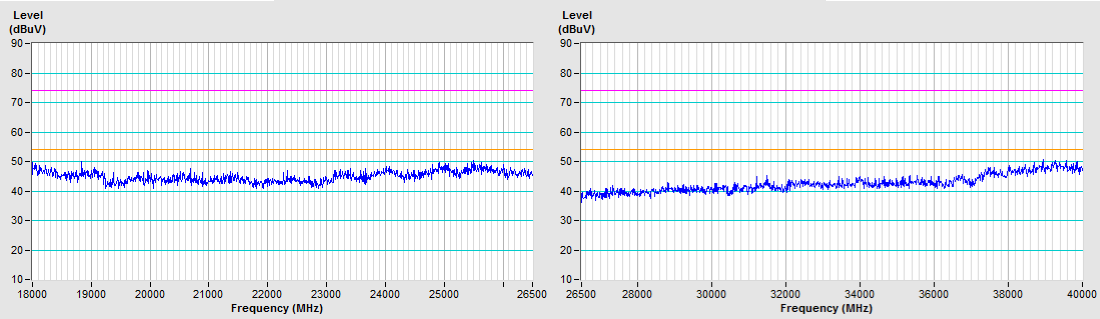
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	109.22 PK			1.09 H	288	104.84	4.38
2	*5320.00	97.03 AV			1.09 H	288	92.65	4.38
3	10640.00	56.00 PK	74.00	-18.00	1.25 H	285	39.34	16.66
4	10640.00	43.31 AV	54.00	-10.69	1.25 H	285	26.65	16.66
5	18000.00	60.02 PK	74.00	-13.98	2.45 H	252	37.54	22.48
6	18000.00	48.66 AV	54.00	-5.34	2.45 H	252	26.18	22.48

Remarks:

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



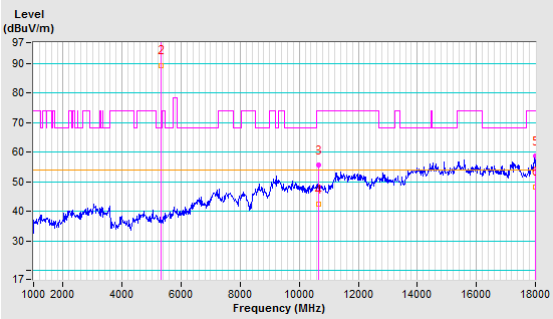


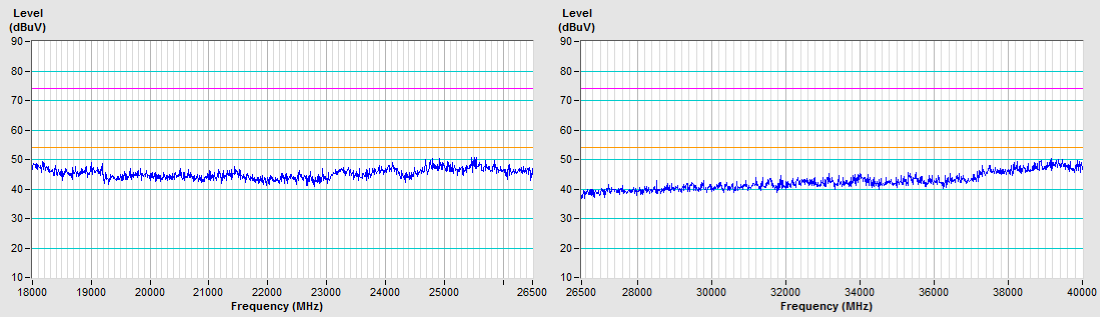
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	105.11 PK			1.39 V	345	100.73	4.38
2	*5320.00	89.25 AV			1.39 V	345	84.87	4.38
3	10640.00	55.48 PK	74.00	-18.52	1.55 V	226	38.82	16.66
4	10640.00	42.28 AV	54.00	-11.72	1.55 V	226	25.62	16.66
5	18000.00	58.54 PK	74.00	-15.46	1.46 V	199	36.06	22.48
6	18000.00	48.22 AV	54.00	-5.78	1.46 V	199	25.74	22.48

Remarks:

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



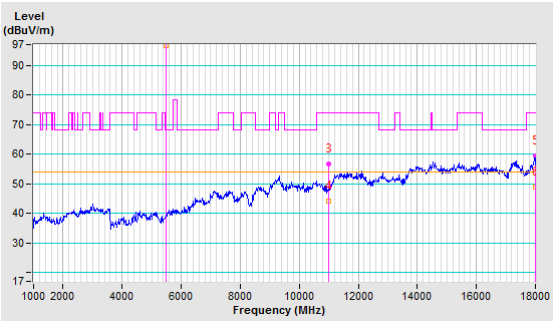


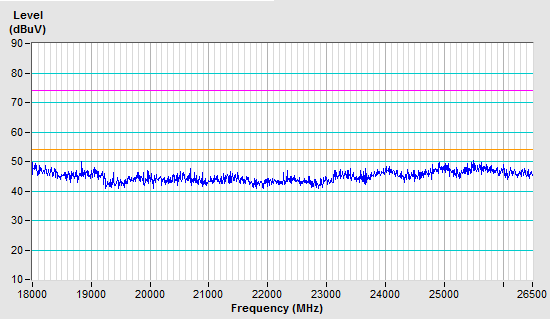
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

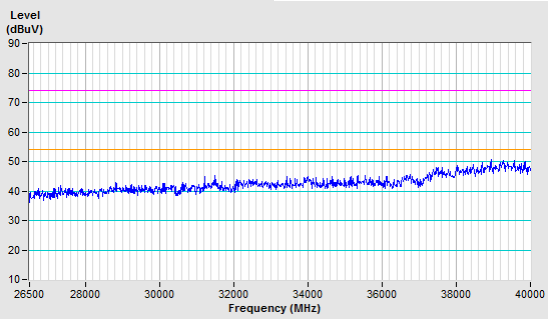
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5500.00	108.26 PK			1.08 H	308	103.79	4.47
2	*5500.00	96.71 AV			1.08 H	308	92.24	4.47
3	11000.00	56.82 PK	74.00	-17.18	1.69 H	88	40.40	16.42
4	11000.00	44.26 AV	54.00	-9.74	1.69 H	88	27.84	16.42
5	18000.00	59.40 PK	74.00	-14.60	2.58 H	228	36.92	22.48
6	18000.00	48.79 AV	54.00	-5.21	2.58 H	228	26.31	22.48

Remarks:

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





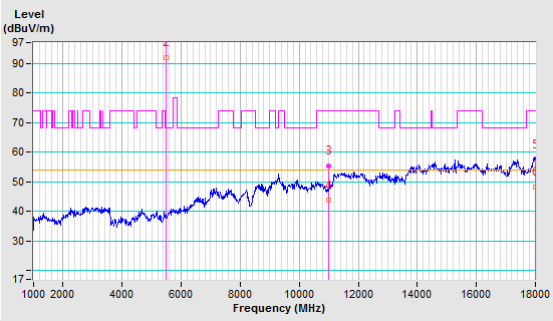


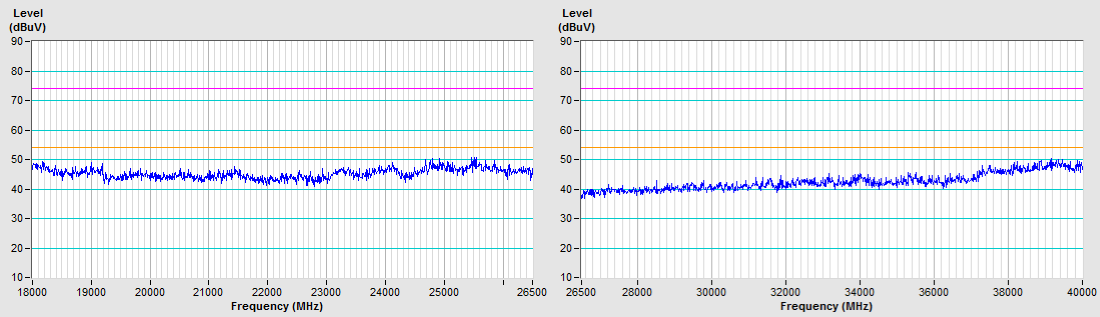
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5500.00	103.65 PK			1.39 V	341	99.18	4.47
2	*5500.00	91.85 AV			1.39 V	341	87.38	4.47
3	11000.00	55.42 PK	74.00	-18.58	1.74 V	241	39.00	16.42
4	11000.00	43.67 AV	54.00	-10.33	1.74 V	241	27.25	16.42
5	18000.00	57.58 PK	74.00	-16.42	1.62 V	188	35.10	22.48
6	18000.00	48.31 AV	54.00	-5.69	1.62 V	188	25.83	22.48

Remarks:

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



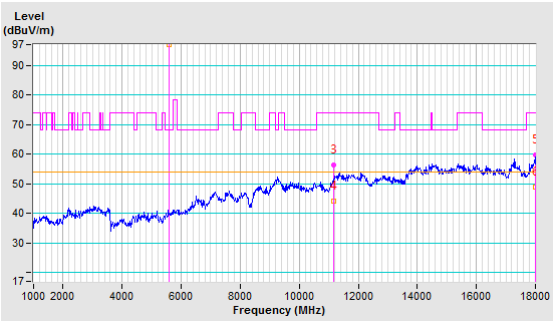


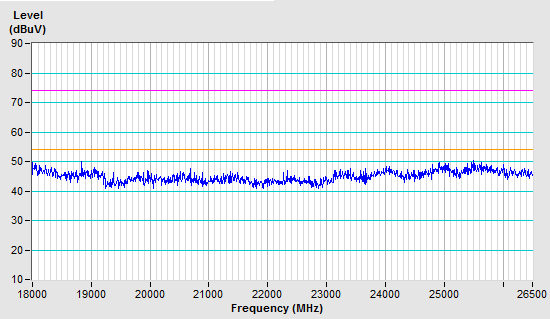
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

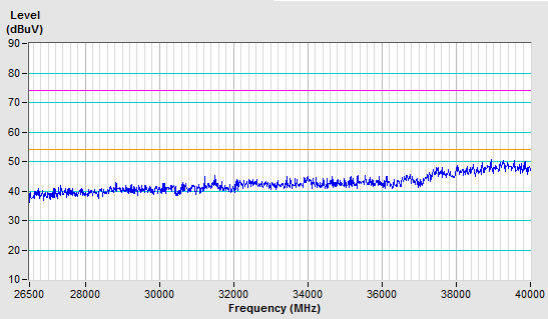
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	108.89 PK			1.06 H	311	104.06	4.83
2	*5580.00	96.96 AV			1.06 H	311	92.13	4.83
3	11160.00	56.39 PK	74.00	-17.61	1.85 H	251	39.35	17.04
4	11160.00	44.26 AV	54.00	-9.74	1.85 H	251	27.22	17.04
5	18000.00	59.75 PK	74.00	-14.25	2.57 H	149	37.27	22.48
6	18000.00	48.86 AV	54.00	-5.14	2.57 H	149	26.38	22.48

Remarks:

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





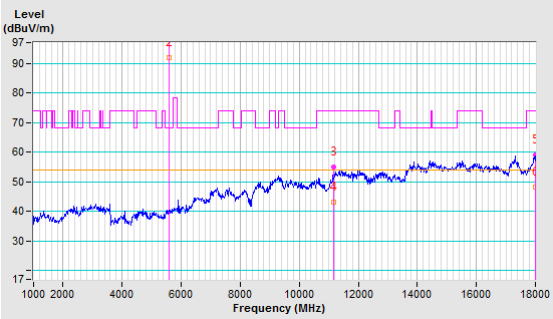


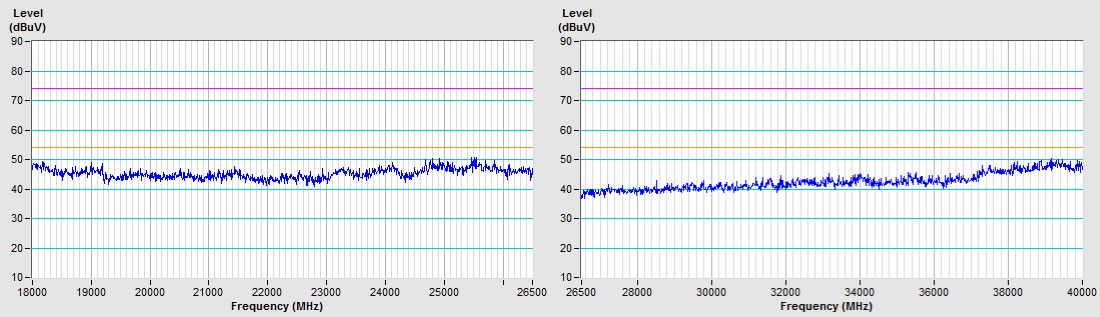
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5580.00	103.69 PK			1.52 V	339	98.86	4.83
2	*5580.00	91.88 AV			1.52 V	339	87.05	4.83
3	11160.00	55.13 PK	74.00	-18.87	1.82 V	293	38.09	17.04
4	11160.00	43.09 AV	54.00	-10.91	1.82 V	293	26.05	17.04
5	18000.00	58.95 PK	74.00	-15.05	1.43 V	121	36.47	22.48
6	18000.00	48.26 AV	54.00	-5.74	1.43 V	121	25.78	22.48

Remarks:

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



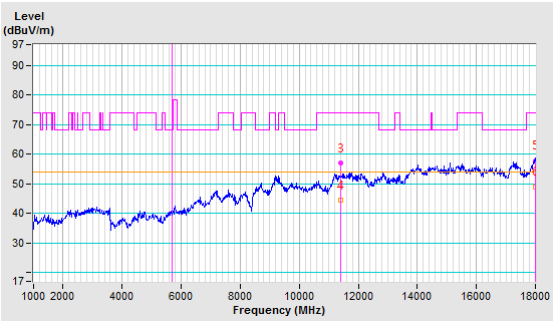


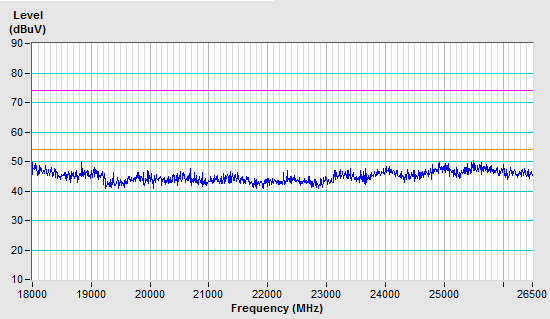
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

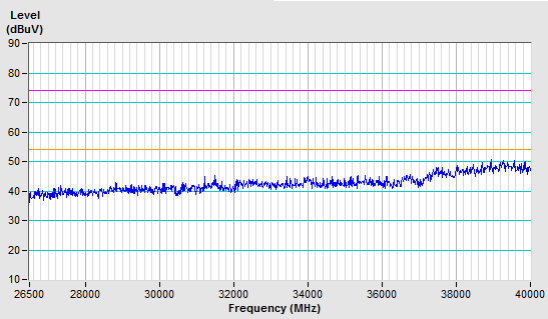
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.24 PK			1.15 H	297	104.95	5.29
2	*5700.00	98.36 AV			1.15 H	297	93.07	5.29
3	11400.00	56.84 PK	74.00	-17.16	1.78 H	154	40.00	16.84
4	11400.00	44.29 AV	54.00	-9.71	1.78 H	154	27.45	16.84
5	18000.00	57.62 PK	74.00	-16.38	2.55 H	248	35.14	22.48
6	18000.00	48.88 AV	54.00	-5.12	2.55 H	248	26.40	22.48

Remarks:

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





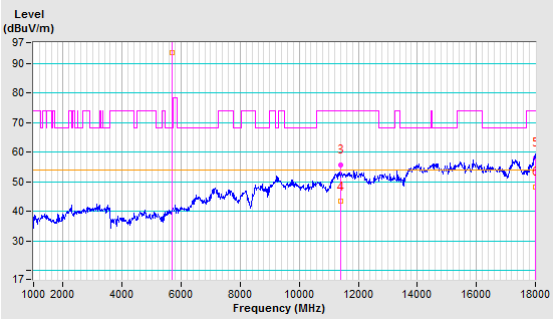


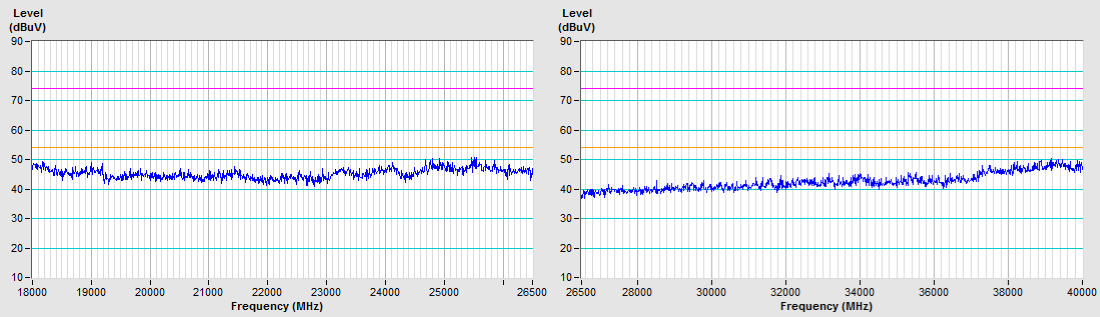
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	105.85 PK			1.44 V	338	100.56	5.29
2	*5700.00	93.52 AV			1.44 V	338	88.23	5.29
3	11400.00	55.67 PK	74.00	-18.33	2.03 V	163	38.83	16.84
4	11400.00	43.28 AV	54.00	-10.72	2.03 V	163	26.44	16.84
5	18000.00	58.05 PK	74.00	-15.95	1.38 V	179	35.57	22.48
6	18000.00	48.16 AV	54.00	-5.84	1.38 V	179	25.68	22.48

Remarks:

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



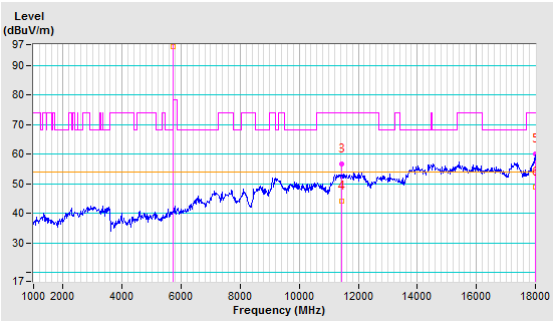


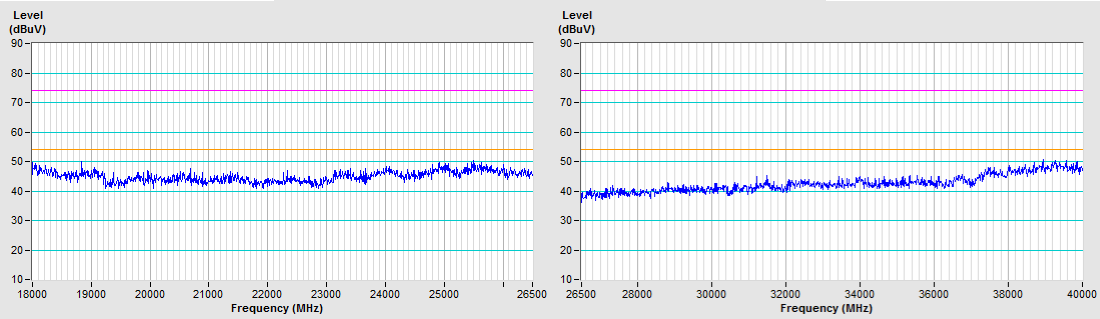
CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	108.46 PK			1.25 H	289	103.02	5.44
2	*5720.00	96.33 AV			1.25 H	289	90.89	5.44
3	11440.00	56.81 PK	74.00	-17.19	1.58 H	58	39.78	17.03
4	11440.00	44.08 AV	54.00	-9.92	1.58 H	58	27.05	17.03
5	18000.00	59.98 PK	74.00	-14.02	2.89 H	263	37.50	22.48
6	18000.00	48.87 AV	54.00	-5.13	2.89 H	263	26.39	22.48

Remarks:

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



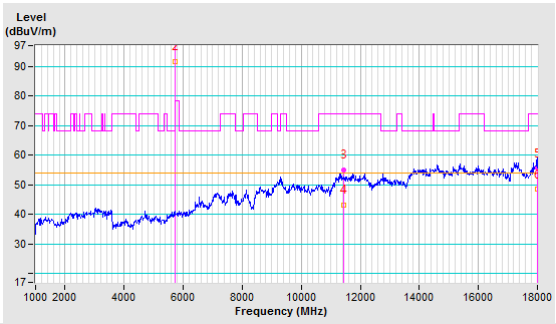


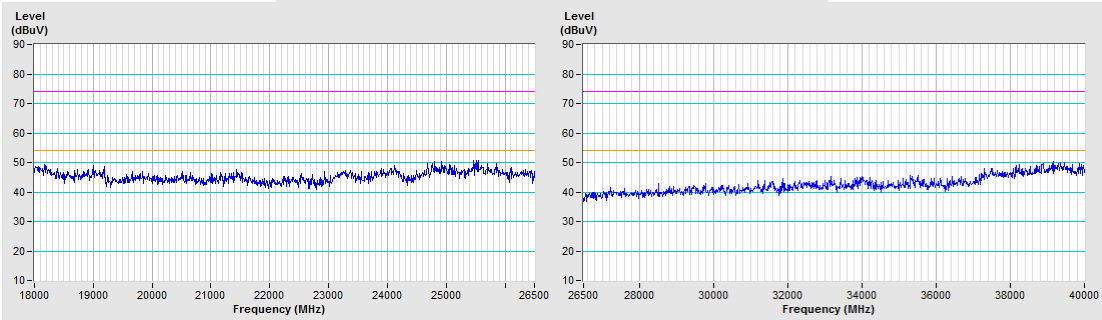
CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5720.00	103.46 PK			1.39 V	346	98.02	5.44
2	*5720.00	91.59 AV			1.39 V	346	86.15	5.44
3	11440.00	55.08 PK	74.00	-18.92	1.29 V	298	38.05	17.03
4	11440.00	43.19 AV	54.00	-10.81	1.29 V	298	26.16	17.03
5	18000.00	55.55 PK	74.00	-18.45	1.62 V	154	33.07	22.48
6	18000.00	48.37 AV	54.00	-5.63	1.62 V	154	25.89	22.48

Remarks:

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



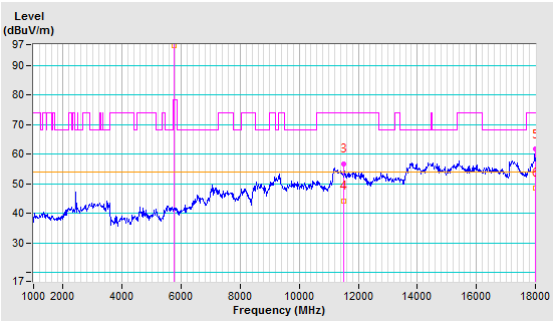


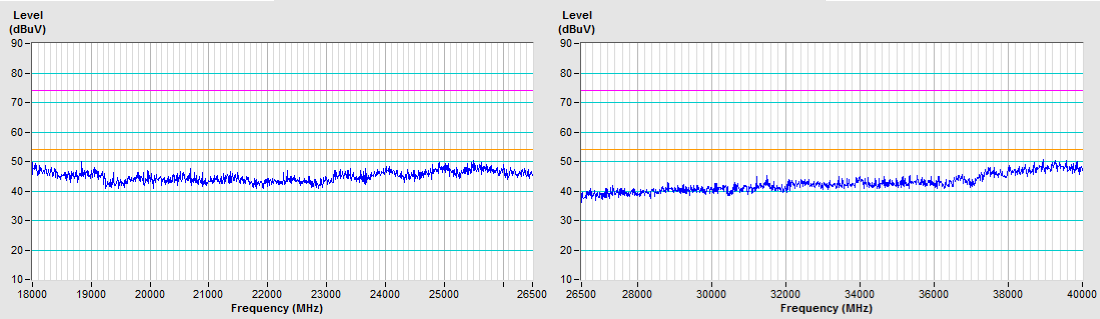
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	107.66 PK			1.00 H	341	102.05	5.61
2	*5745.00	96.80 AV			1.00 H	341	91.19	5.61
3	11490.00	56.63 PK	74.00	-17.37	1.87 H	188	39.37	17.26
4	11490.00	44.18 AV	54.00	-9.82	1.87 H	188	26.92	17.26
5	18000.00	61.66 PK	74.00	-12.34	2.84 H	264	39.18	22.48
6	18000.00	48.67 AV	54.00	-5.33	2.84 H	264	26.19	22.48

Remarks:

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



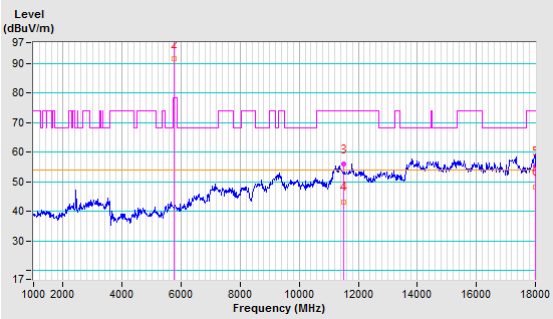


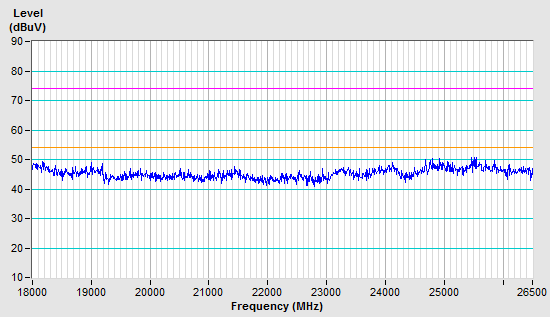
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

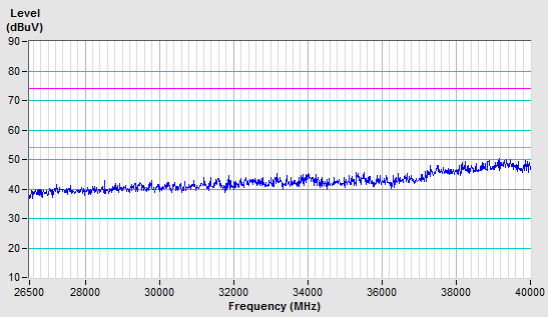
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5745.00	102.41 PK			1.48 V	353	96.80	5.61
2	*5745.00	91.45 AV			1.48 V	353	85.84	5.61
3	11490.00	55.82 PK	74.00	-18.18	1.91 V	228	38.56	17.26
4	11490.00	43.26 AV	54.00	-10.74	1.91 V	228	26.00	17.26
5	18000.00	55.21 PK	74.00	-18.79	1.28 V	138	32.73	22.48
6	18000.00	48.28 AV	54.00	-5.72	1.28 V	138	25.80	22.48

Remarks:

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





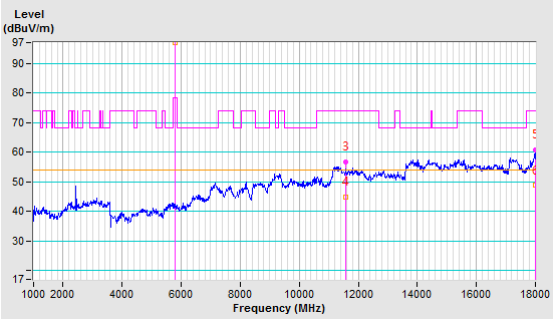


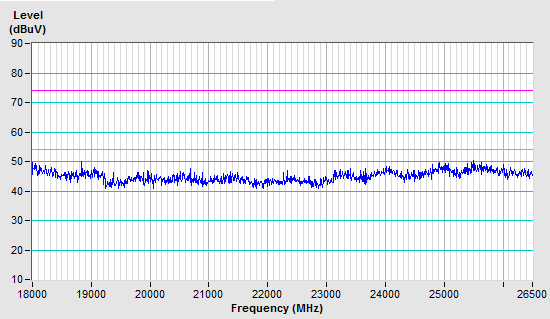
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

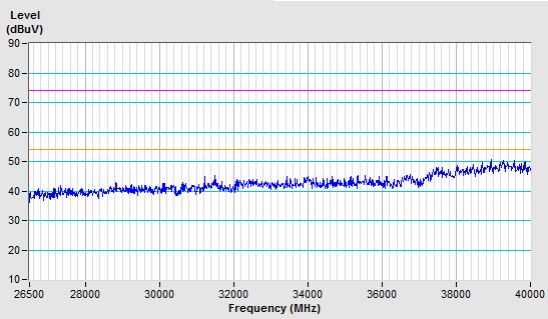
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5785.00	107.89 PK			1.04 H	344	101.99	5.90
2	*5785.00	96.88 AV			1.04 H	344	90.98	5.90
3	11570.00	56.74 PK	74.00	-17.26	1.88 H	47	39.38	17.36
4	11570.00	44.82 AV	54.00	-9.18	1.88 H	47	27.46	17.36
5	18000.00	60.71 PK	74.00	-13.29	2.56 H	235	38.23	22.48
6	18000.00	48.73 AV	54.00	-5.27	2.56 H	235	26.25	22.48

Remarks:

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





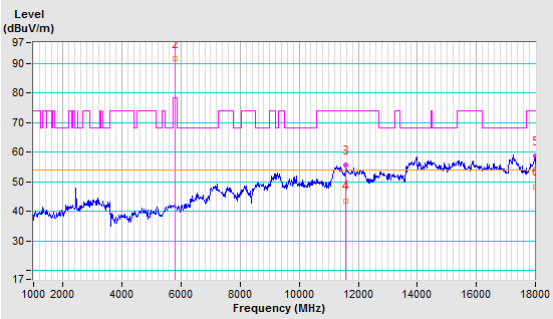


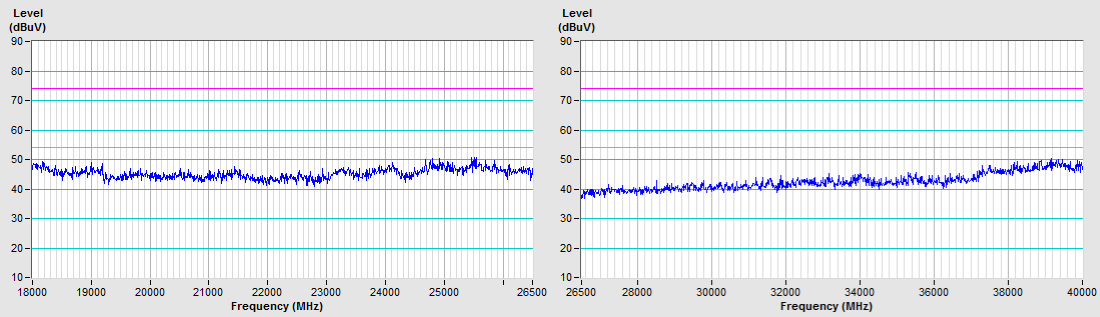
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5785.00	102.55 PK			1.43 V	351	96.65	5.90
2	*5785.00	91.49 AV			1.43 V	351	85.59	5.90
3	11570.00	55.49 PK	74.00	-18.51	1.66 V	225	38.13	17.36
4	11570.00	43.37 AV	54.00	-10.63	1.66 V	225	26.01	17.36
5	18000.00	58.58 PK	74.00	-15.42	1.45 V	173	36.10	22.48
6	18000.00	48.17 AV	54.00	-5.83	1.45 V	173	25.69	22.48

Remarks:

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



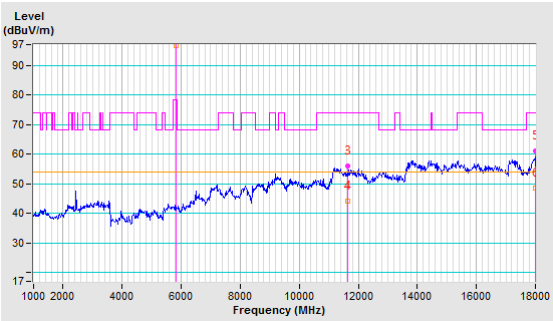


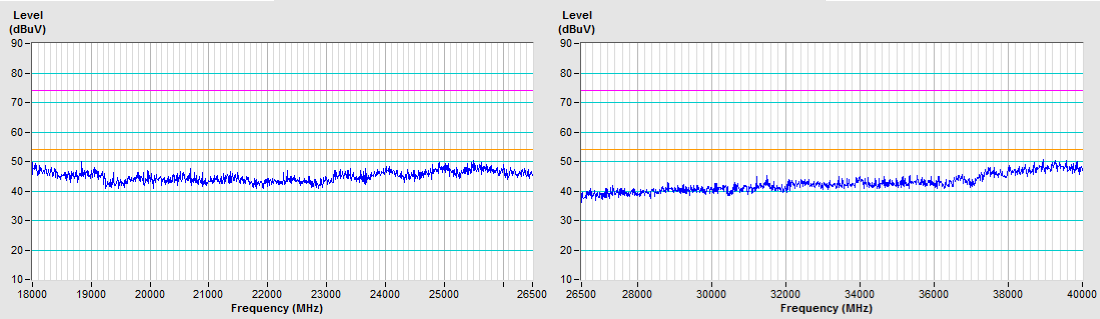
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	107.88 PK			1.00 H	345	101.77	6.11
2	*5825.00	96.66 AV			1.00 H	345	90.55	6.11
3	11650.00	56.08 PK	74.00	-17.92	1.42 H	159	38.93	17.15
4	11650.00	44.11 AV	54.00	-9.89	1.42 H	159	26.96	17.15
5	18000.00	61.16 PK	74.00	-12.84	2.75 H	249	38.68	22.48
6	18000.00	48.67 AV	54.00	-5.33	2.75 H	249	26.19	22.48

Remarks:

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



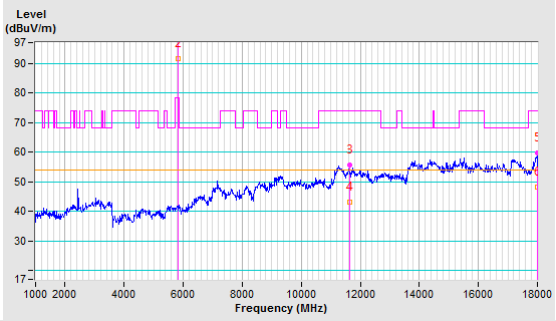


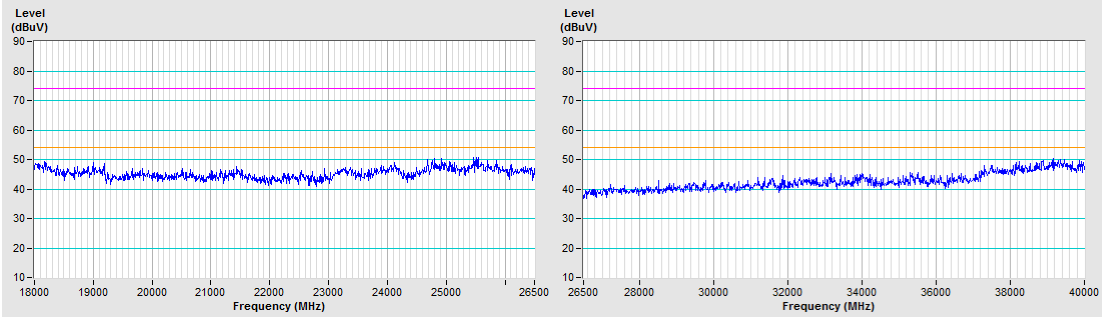
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5825.00	102.45 PK			1.52 V	352	96.34	6.11
2	*5825.00	91.66 AV			1.52 V	352	85.55	6.11
3	11650.00	55.58 PK	74.00	-18.42	1.94 V	147	38.43	17.15
4	11650.00	43.26 AV	54.00	-10.74	1.94 V	147	26.11	17.15
5	18000.00	59.88 PK	74.00	-14.12	1.56 V	208	37.40	22.48
6	18000.00	48.11 AV	54.00	-5.89	1.56 V	208	25.63	22.48

Remarks:

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





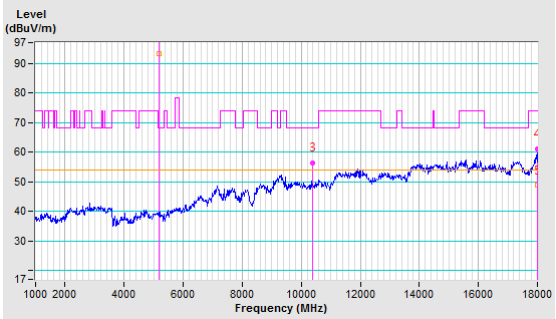
802.11n (HT40)

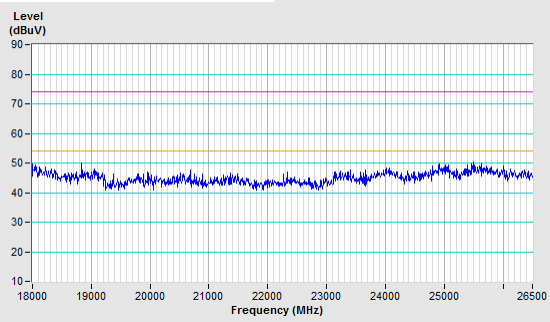
CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

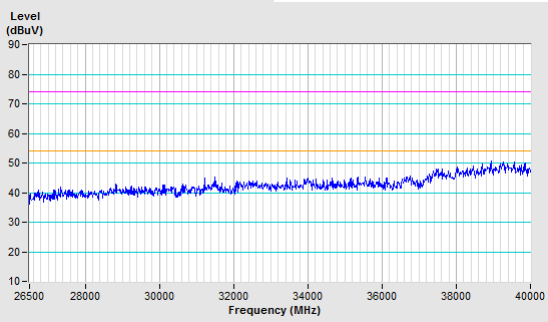
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5190.00	105.78 PK			1.03 H	324	100.80	4.98
2	*5190.00	93.30 AV			1.03 H	327	88.32	4.98
3	#10380.00	56.38 PK	68.20	-11.82	1.39 H	269	40.49	15.89
4	18000.00	61.02 PK	74.00	-12.98	2.68 H	241	38.54	22.48
5	18000.00	48.73 AV	54.00	-5.27	2.68 H	241	26.25	22.48

Remarks:

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





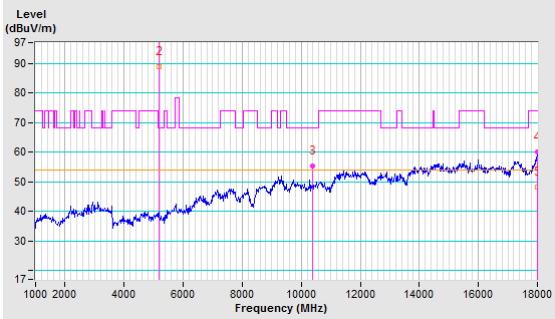


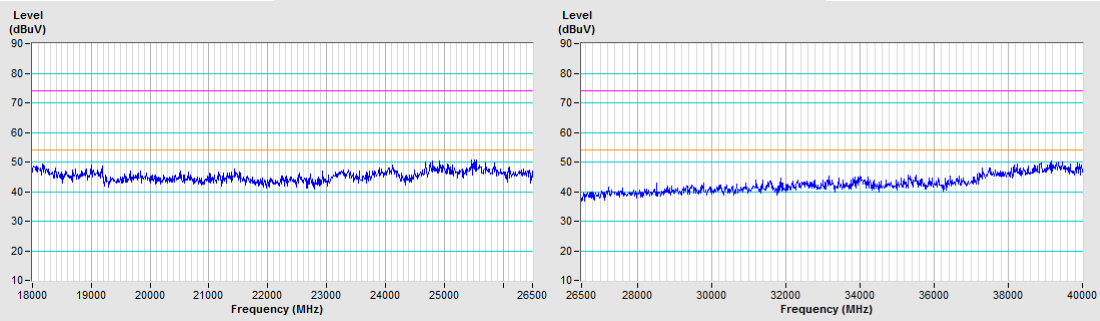
CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5190.00	100.67 PK			1.45 V	348	95.69	4.98
2	*5190.00	88.96 AV			1.45 V	348	83.98	4.98
3	#10380.00	55.28 PK	68.20	-12.92	1.28 V	258	39.39	15.89
4	18000.00	60.12 PK	74.00	-13.88	1.50 V	169	37.64	22.48
5	18000.00	48.26 AV	54.00	-5.74	1.50 V	169	25.78	22.48

Remarks:

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



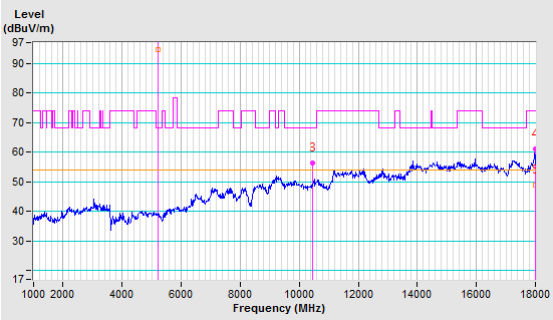


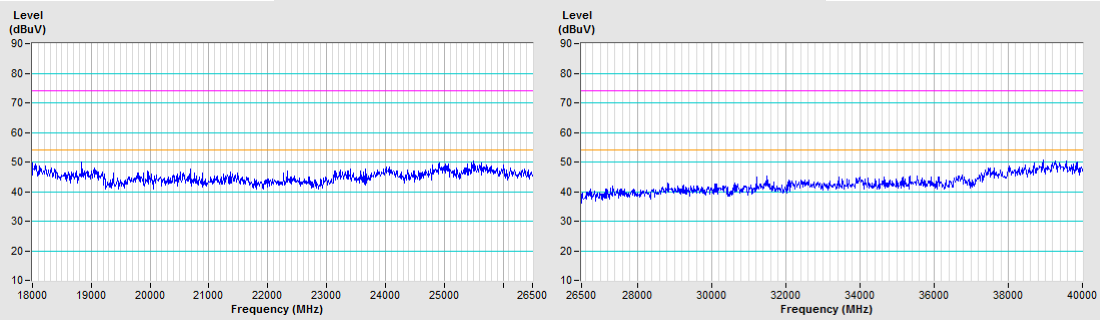
CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	106.84 PK			1.05 H	319	102.13	4.71
2	*5230.00	94.69 AV			1.05 H	319	89.98	4.71
3	#10460.00	56.26 PK	68.20	-11.94	1.37 H	194	39.74	16.52
4	18000.00	60.99 PK	74.00	-13.01	2.88 H	219	38.51	22.48
5	18000.00	48.92 AV	54.00	-5.08	2.88 H	219	26.44	22.48

Remarks:

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



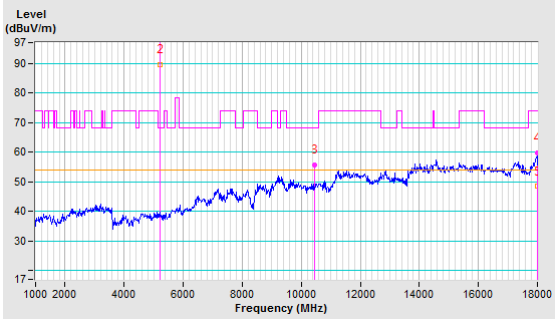


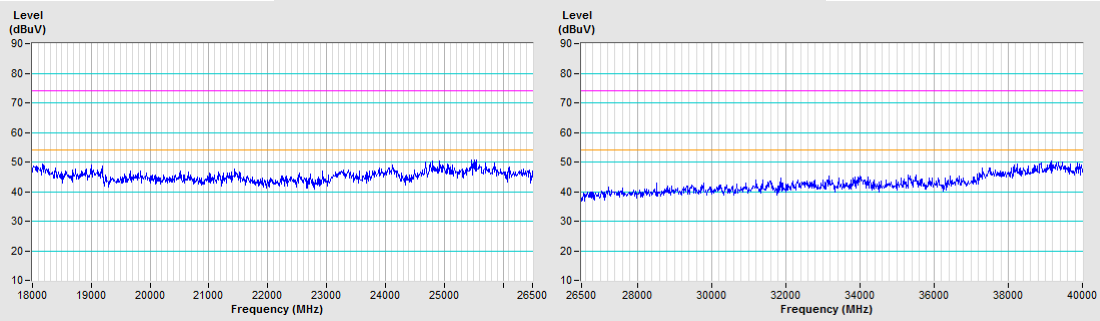
CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	101.86 PK			1.46 V	351	97.15	4.71
2	*5230.00	89.53 AV			1.46 V	351	84.82	4.71
3	#10460.00	55.64 PK	68.20	-12.56	1.99 V	268	39.12	16.52
4	18000.00	59.72 PK	74.00	-14.28	1.68 V	137	37.24	22.48
5	18000.00	48.44 AV	54.00	-5.56	1.63 V	137	25.96	22.48

Remarks:

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



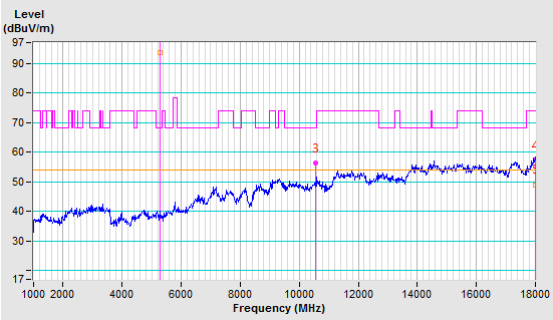


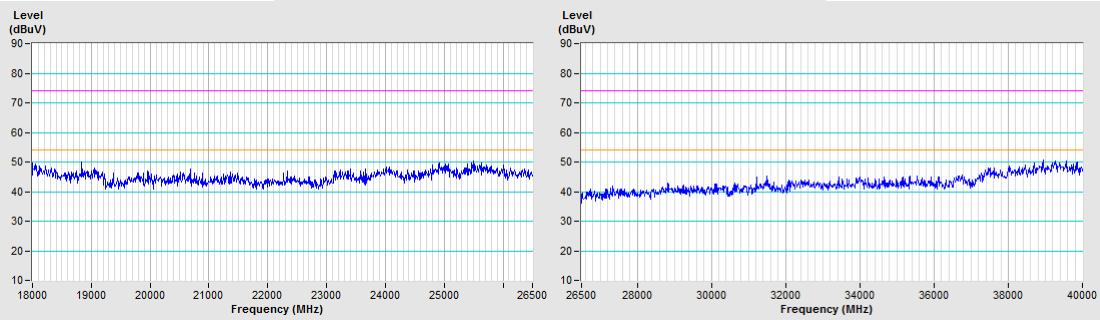
CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	105.54 PK			1.13 H	318	101.07	4.47
2	*5270.00	93.64 AV			1.13 H	318	89.17	4.47
3	#10540.00	56.23 PK	68.20	-11.97	1.77 H	204	39.35	16.88
4	18000.00	57.21 PK	74.00	-16.79	2.68 H	288	34.73	22.48
5	18000.00	48.85 AV	54.00	-5.15	2.68 H	288	26.37	22.48

Remarks:

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



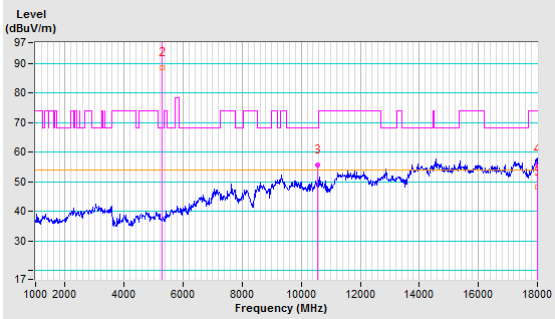


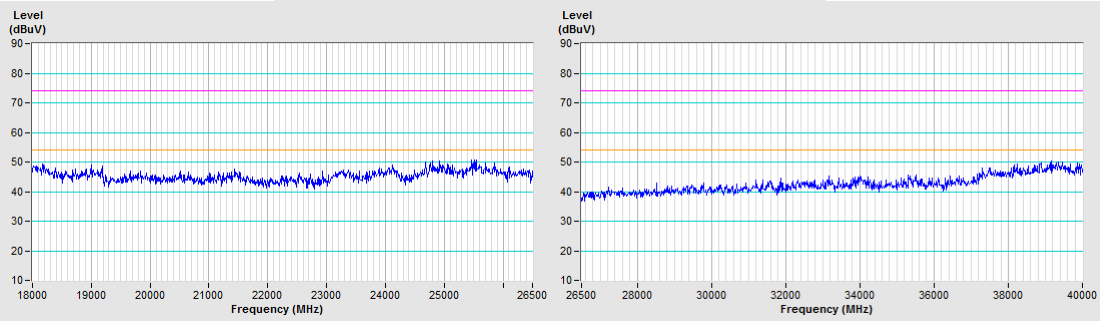
CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	100.55 PK			1.54 V	329	96.08	4.47
2	*5270.00	88.52 AV			1.54 V	329	84.05	4.47
3	#10570.00	55.64 PK	68.20	-12.56	1.84 V	236	38.71	16.93
4	18000.00	56.14 PK	74.00	-17.86	1.42 V	169	33.66	22.48
5	18000.00	48.25 AV	54.00	-5.75	1.42 V	169	25.77	22.48

Remarks:

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



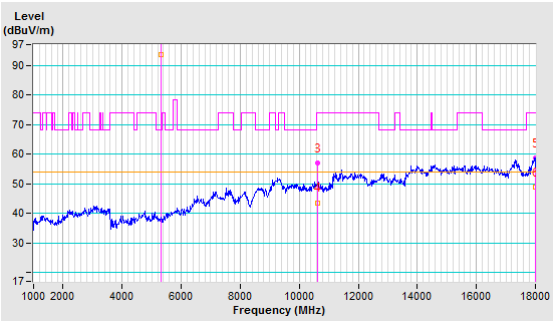


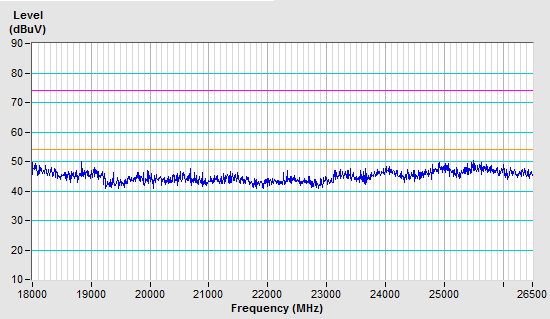
CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

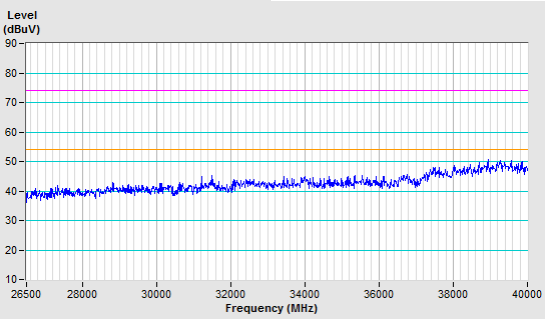
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	105.08 PK			1.15 H	318	100.72	4.36
2	*5310.00	93.68 AV			1.15 H	318	89.32	4.36
3	10620.00	56.84 PK	74.00	-17.16	1.54 H	241	40.02	16.82
4	10620.00	43.39 AV	54.00	-10.61	1.54 H	241	26.57	16.82
5	18000.00	58.57 PK	74.00	-15.43	2.66 H	292	36.09	22.48
6	18000.00	48.70 AV	54.00	-5.30	2.66 H	292	26.22	22.48

Remarks:

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





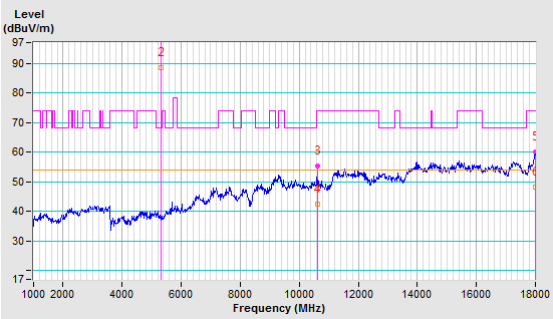


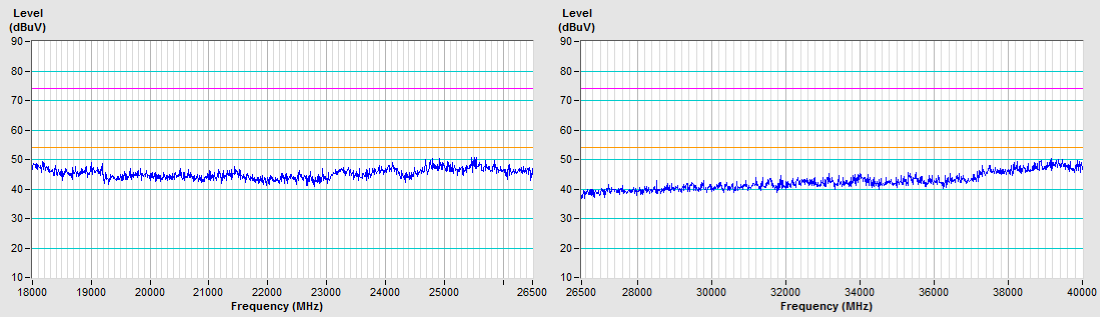
CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	100.82 PK			1.48 V	345	96.46	4.36
2	*5310.00	88.62 AV			1.48 V	345	84.26	4.36
3	10620.00	55.41 PK	74.00	-18.59	1.69 V	258	38.59	16.82
4	10620.00	42.37 AV	54.00	-11.63	1.69 V	258	25.55	16.82
5	18000.00	60.03 PK	74.00	-13.97	1.64 V	112	37.55	22.48
6	18000.00	48.31 AV	54.00	-5.69	1.64 V	112	25.83	22.48

Remarks:

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



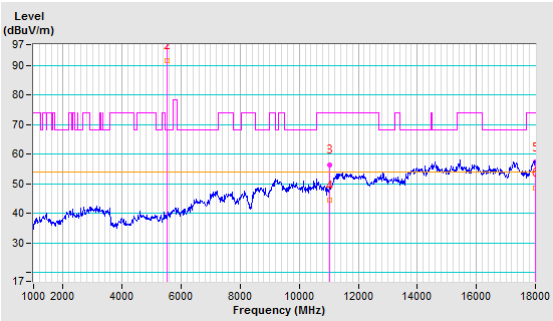


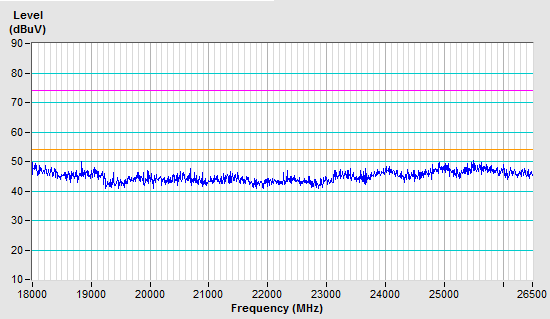
CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

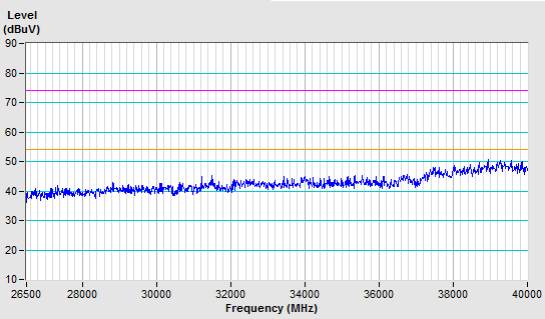
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5510.00	104.05 PK			1.16 H	298	99.54	4.51
2	*5510.00	91.56 AV			1.16 H	298	87.05	4.51
3	11020.00	56.28 PK	74.00	-17.72	1.82 H	164	39.75	16.53
4	11020.00	44.36 AV	54.00	-9.64	1.82 H	164	27.83	16.53
5	18000.00	57.24 PK	74.00	-16.76	2.08 H	266	34.76	22.48
6	18000.00	48.65 AV	54.00	-5.35	2.08 H	266	26.17	22.48

Remarks:

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





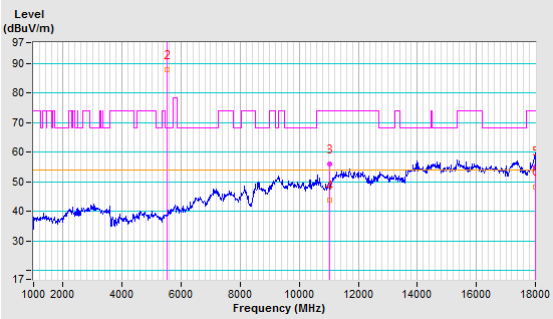


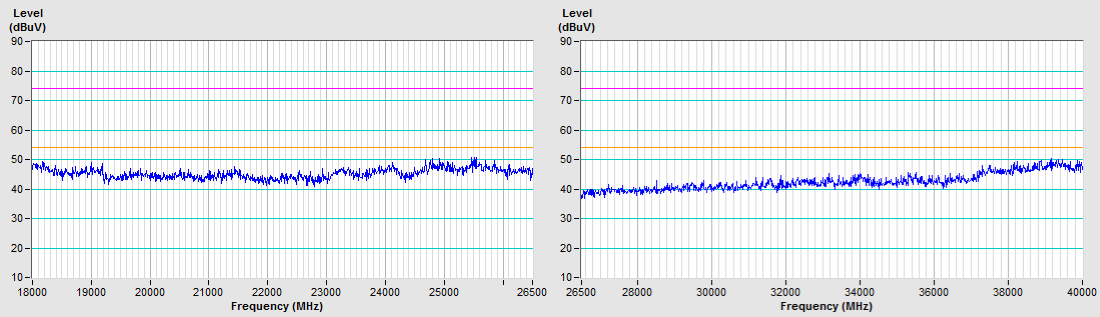
CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5510.00	100.58 PK			1.44 V	333	96.07	4.51
2	*5510.00	87.69 AV			1.44 V	360	83.18	4.51
3	11020.00	55.82 PK	74.00	-18.18	1.57 V	222	39.29	16.53
4	11020.00	43.66 AV	54.00	-10.34	1.57 V	222	27.13	16.53
5	18000.00	55.06 PK	74.00	-18.94	1.28 V	221	32.58	22.48
6	18000.00	48.11 AV	54.00	-5.89	1.28 V	221	25.63	22.48

Remarks:

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



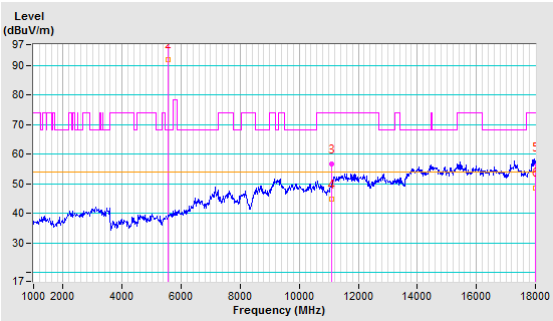


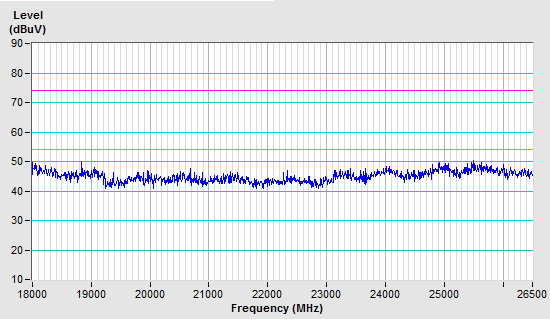
CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

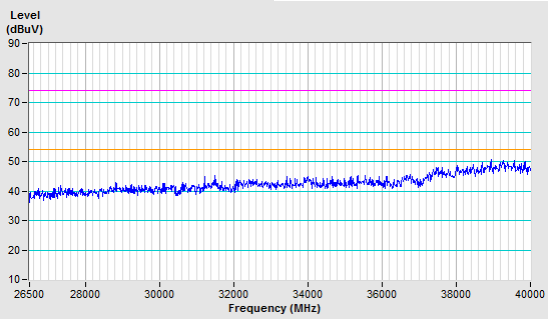
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	105.04 PK			1.11 H	303	100.34	4.70
2	*5550.00	91.99 AV			1.11 H	303	87.29	4.70
3	11100.00	56.56 PK	74.00	-17.44	1.82 H	251	39.63	16.93
4	11100.00	44.68 AV	54.00	-9.32	1.82 H	251	27.75	16.93
5	18000.00	56.98 PK	74.00	-17.02	2.85 H	206	34.50	22.48
6	18000.00	48.66 AV	54.00	-5.34	2.85 H	206	26.18	22.48

Remarks:

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





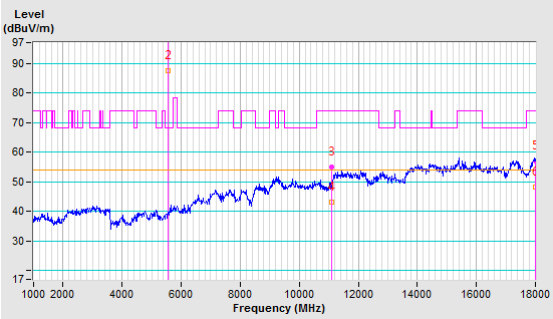


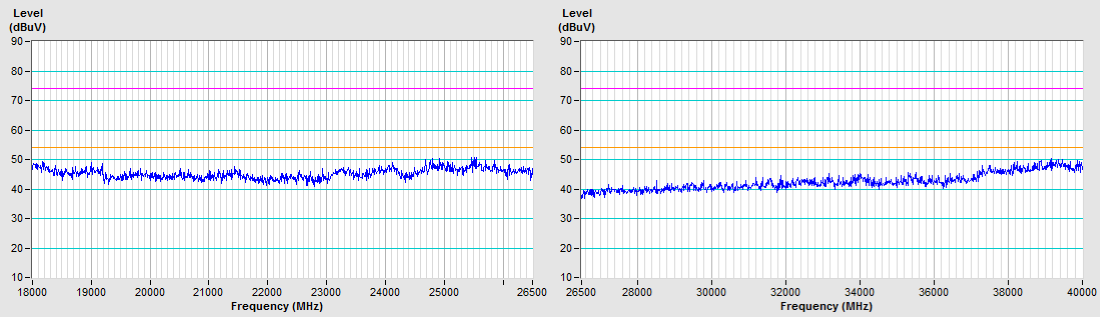
CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5550.00	100.53 PK			1.56 V	355	95.83	4.70
2	*5550.00	87.60 AV			1.56 V	355	82.90	4.70
3	11100.00	55.08 PK	74.00	-18.92	1.23 V	24	38.15	16.93
4	11100.00	43.11 AV	54.00	-10.89	1.23 V	24	26.18	16.93
5	18000.00	57.13 PK	74.00	-16.87	1.66 V	127	34.65	22.48
6	18000.00	48.27 AV	54.00	-5.73	1.66 V	127	25.79	22.48

Remarks:

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



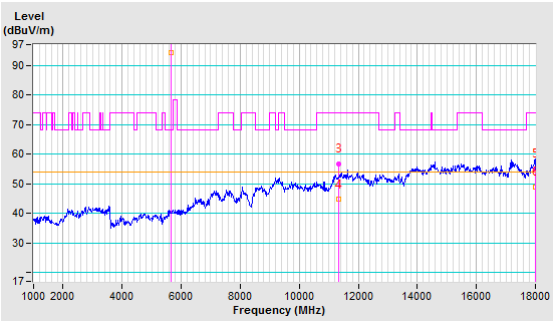


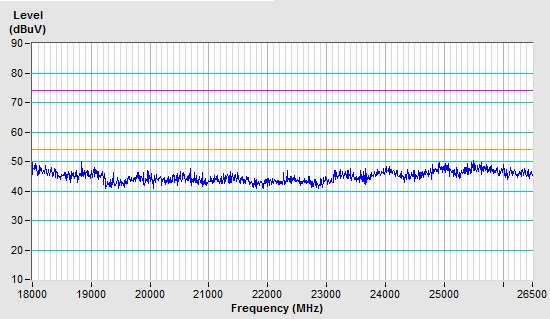
CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

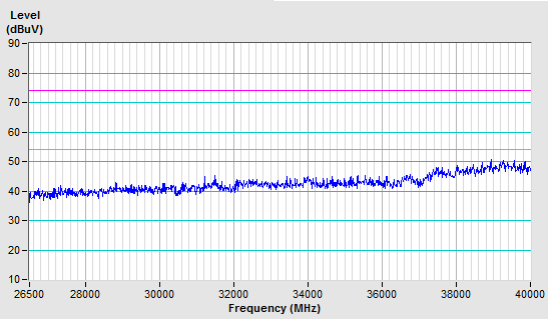
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	107.06 PK			1.14 H	290	101.92	5.14
2	*5670.00	94.23 AV			1.14 H	290	89.09	5.14
3	11340.00	56.69 PK	74.00	-17.31	1.55 H	298	39.96	16.73
4	11340.00	44.67 AV	54.00	-9.33	1.55 H	298	27.94	16.73
5	18000.00	55.13 PK	74.00	-18.87	2.36 H	221	32.65	22.48
6	18000.00	48.82 AV	54.00	-5.18	2.36 H	221	26.34	22.48

Remarks:

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





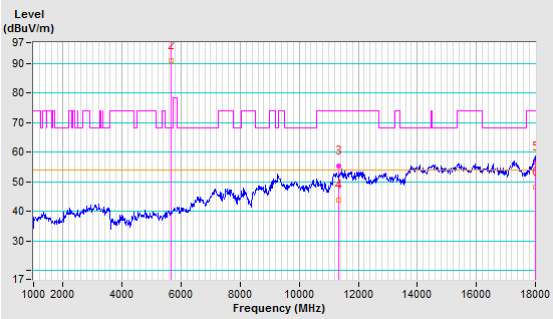


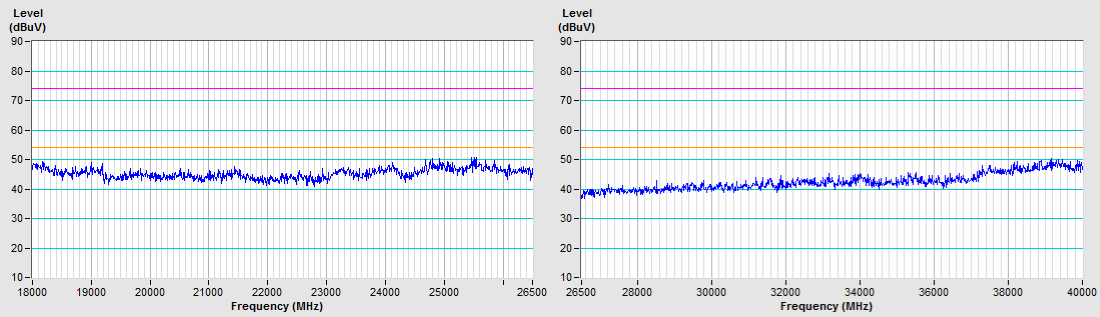
CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	103.25 PK			1.56 V	332	98.11	5.14
2	*5670.00	91.00 AV			1.56 V	332	85.86	5.14
3	11340.00	55.29 PK	74.00	-18.71	1.74 V	184	38.56	16.73
4	11340.00	43.85 AV	54.00	-10.15	1.74 V	184	27.12	16.73
5	18000.00	56.83 PK	74.00	-17.17	1.36 V	151	34.35	22.48
6	18000.00	48.22 AV	54.00	-5.78	1.36 V	151	25.74	22.48

Remarks:

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



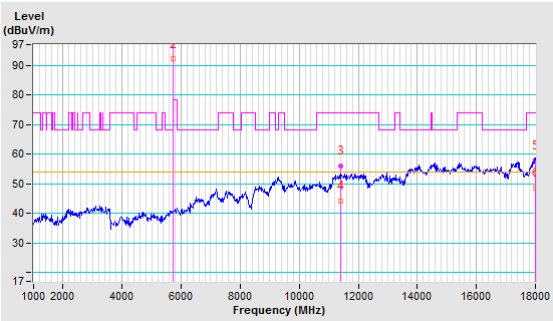


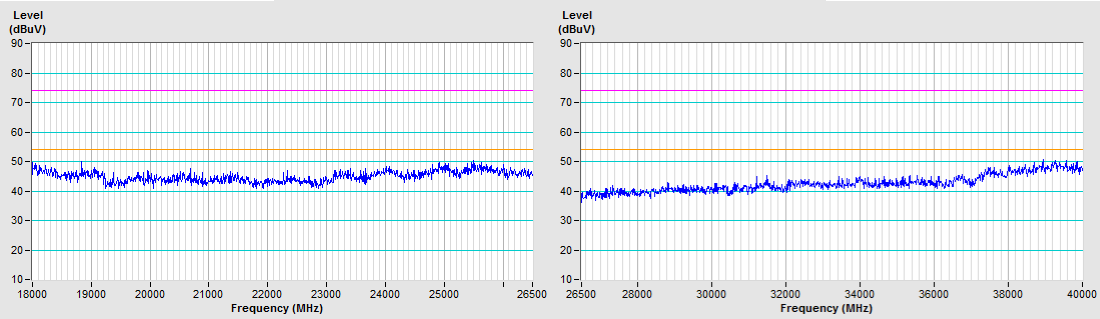
CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5710.00	105.94 PK			1.31 H	298	100.58	5.36
2	*5710.00	92.09 AV			1.31 H	298	86.73	5.36
3	11420.00	56.09 PK	74.00	-17.91	1.59 H	66	39.15	16.94
4	11420.00	44.23 AV	54.00	-9.77	1.59 H	66	27.29	16.94
5	18000.00	57.85 PK	74.00	-16.15	2.53 H	219	35.37	22.48
6	18000.00	48.49 AV	54.00	-5.51	2.53 H	219	26.01	22.48

Remarks:

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



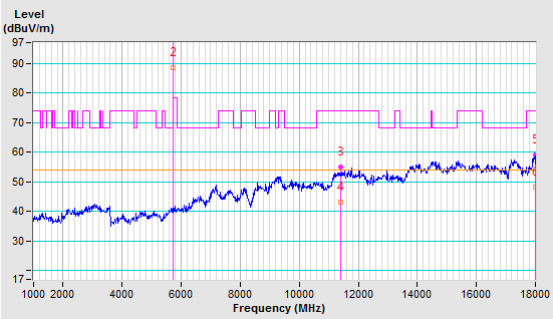


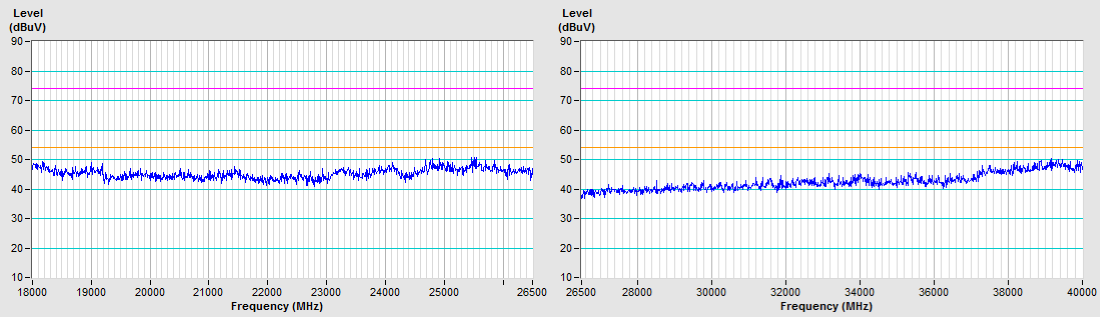
CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5710.00	100.71 PK			1.38 V	343	95.35	5.36
2	*5710.00	88.65 AV			1.38 V	343	83.29	5.36
3	11420.00	55.08 PK	74.00	-18.92	1.71 V	142	38.14	16.94
4	11420.00	43.19 AV	54.00	-10.81	1.71 V	142	26.25	16.94
5	18000.00	58.98 PK	74.00	-15.02	1.62 V	125	36.50	22.48
6	18000.00	48.19 AV	54.00	-5.81	1.62 V	125	25.71	22.48

Remarks:

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



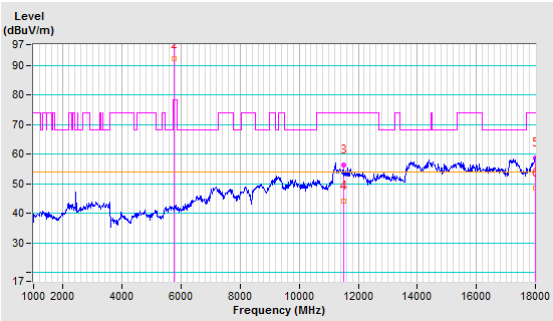


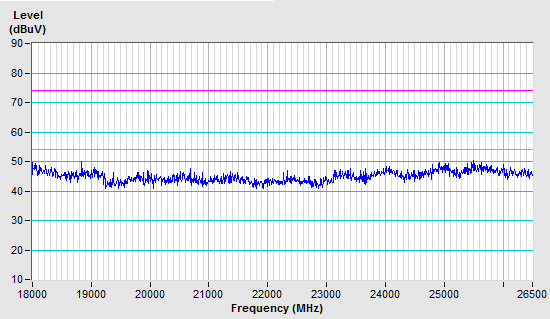
CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

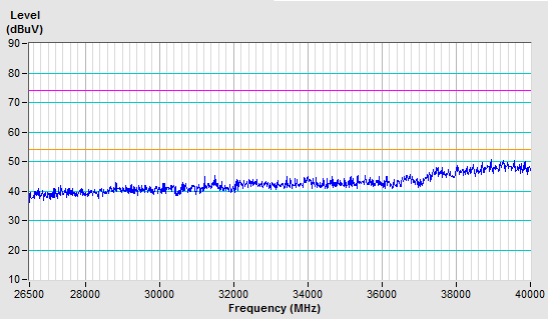
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5755.00	104.12 PK			1.20 H	341	98.45	5.67
2	*5755.00	92.16 AV			1.20 H	341	86.49	5.67
3	11510.00	56.41 PK	74.00	-17.59	1.87 H	360	39.10	17.31
4	11510.00	44.17 AV	54.00	-9.83	1.87 H	360	26.86	17.31
5	18000.00	58.84 PK	74.00	-15.16	2.88 H	219	36.36	22.48
6	18000.00	48.59 AV	54.00	-5.41	2.88 H	219	26.11	22.48

Remarks:

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





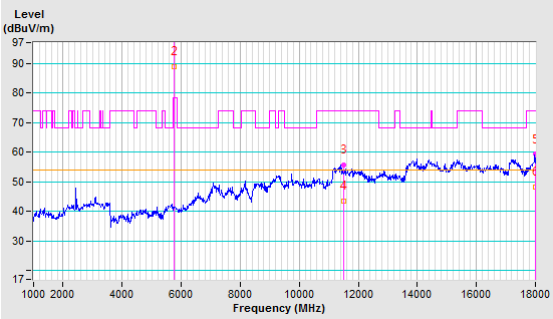


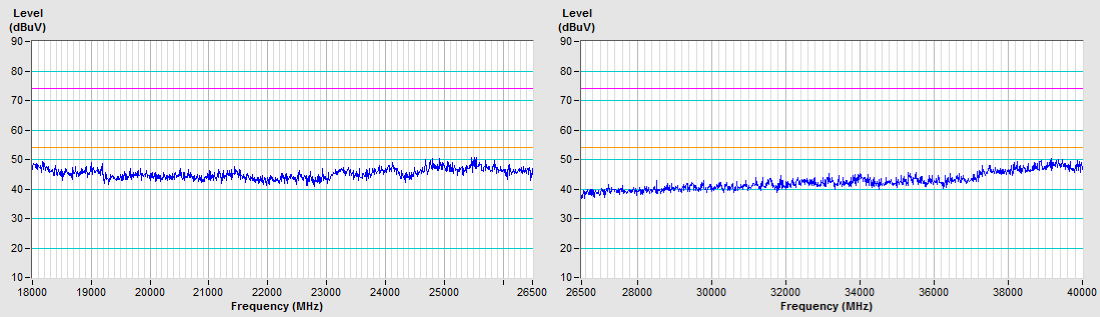
CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5755.00	100.83 PK			1.38 V	359	95.16	5.67
2	*5755.00	88.78 AV			1.38 V	359	83.11	5.67
3	11510.00	55.80 PK	74.00	-18.20	1.69 V	258	38.49	17.31
4	11510.00	43.38 AV	54.00	-10.62	1.69 V	258	26.07	17.31
5	18000.00	59.22 PK	74.00	-14.78	1.66 V	120	36.74	22.48
6	18000.00	48.24 AV	54.00	-5.76	1.66 V	120	25.76	22.48

Remarks:

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



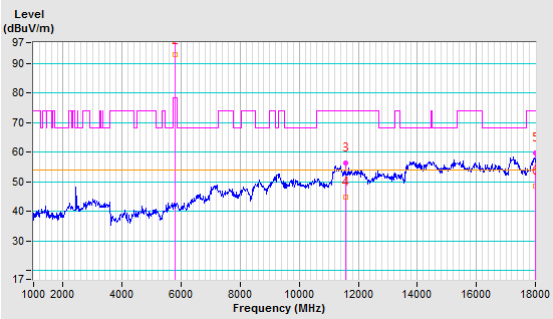


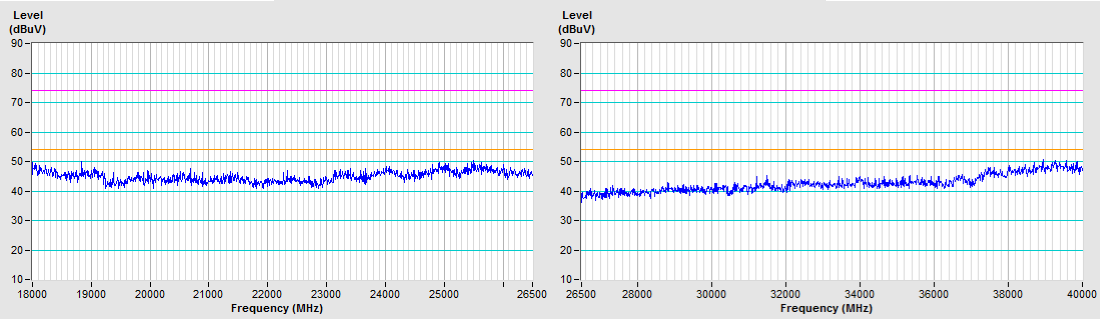
CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	104.88 PK			1.15 H	347	98.91	5.97
2	*5795.00	92.84 AV			1.15 H	347	86.87	5.97
3	11590.00	56.47 PK	74.00	-17.53	1.50 H	203	39.10	17.37
4	11590.00	44.78 AV	54.00	-9.22	1.50 H	203	27.41	17.37
5	18000.00	59.72 PK	74.00	-14.28	2.78 H	264	37.24	22.48
6	18000.00	48.66 AV	54.00	-5.34	2.78 H	264	26.18	22.48

Remarks:

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



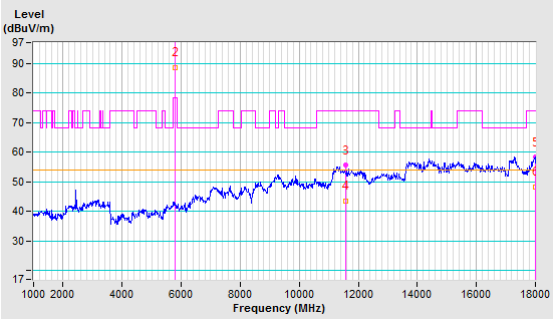


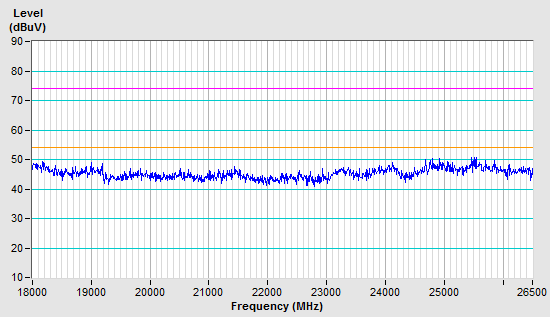
CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

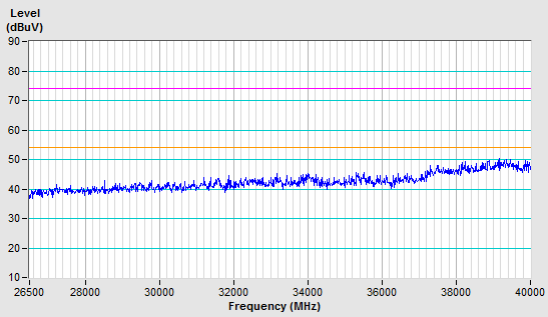
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5795.00	100.28 PK			1.41 V	355	94.31	5.97
2	*5795.00	88.63 AV			1.41 V	355	82.66	5.97
3	11590.00	55.49 PK	74.00	-18.51	1.78 V	88	38.12	17.37
4	11590.00	43.58 AV	54.00	-10.42	1.78 V	88	26.21	17.37
5	18000.00	58.21 PK	74.00	-15.79	1.63 V	134	35.73	22.48
6	18000.00	48.29 AV	54.00	-5.71	1.63 V	134	25.81	22.48

Remarks:

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







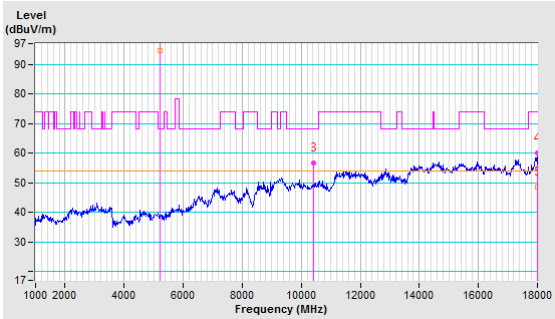
802.11ac (VHT80)

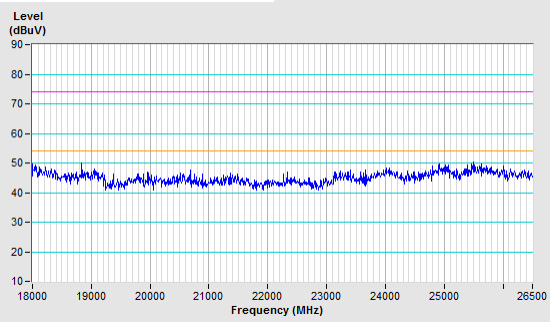
CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

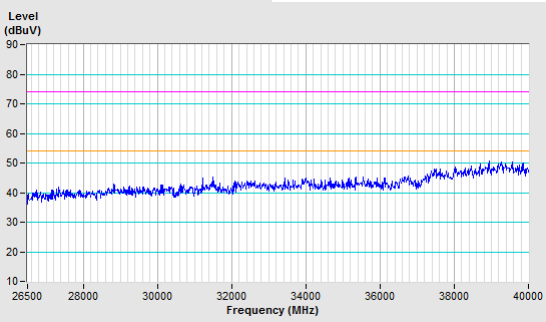
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5210.00	100.55 PK			1.06 H	330	95.72	4.83
2	*5210.00	94.63 AV			1.06 H	330	89.80	4.83
3	#10420.00	56.68 PK	68.20	-11.52	1.78 H	145	40.47	16.21
4	18000.00	60.03 PK	74.00	-13.97	2.50 H	273	37.55	22.48
5	18000.00	48.65 AV	54.00	-5.35	2.50 H	273	26.17	22.48

Remarks:

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





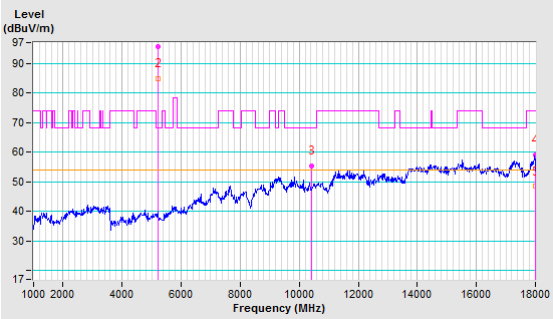


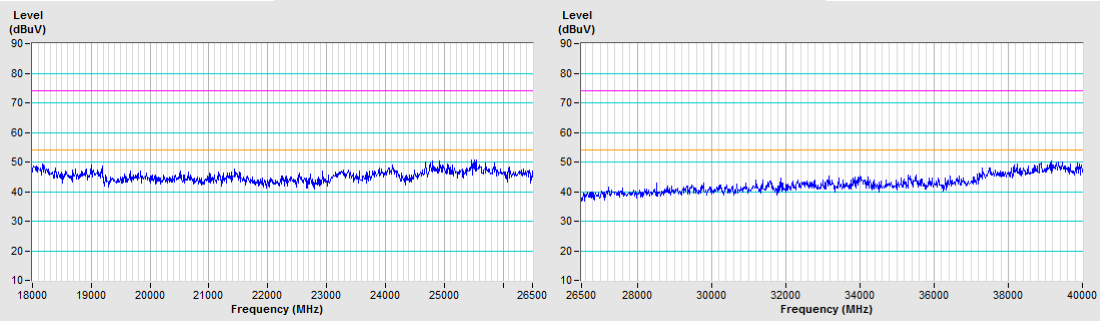
CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

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	*5210.00	95.68 PK			1.41 V	358	90.85	4.83
2	*5210.00	84.77 AV			1.41 V	358	79.94	4.83
3	#10420.00	55.25 PK	68.20	-12.95	1.92 V	265	39.04	16.21
4	18000.00	59.13 PK	74.00	-14.87	1.66 V	140	36.65	22.48
5	18000.00	48.41 AV	54.00	-5.59	1.66 V	140	25.93	22.48

Remarks:

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



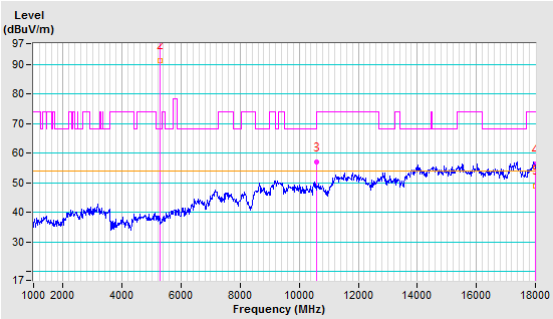


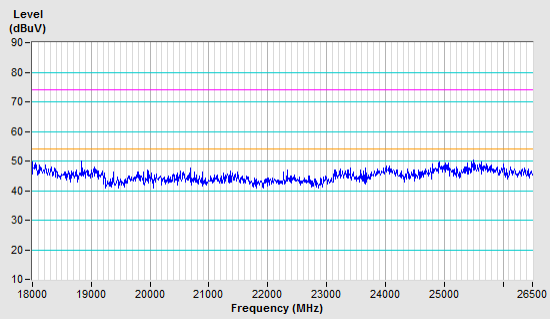
CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

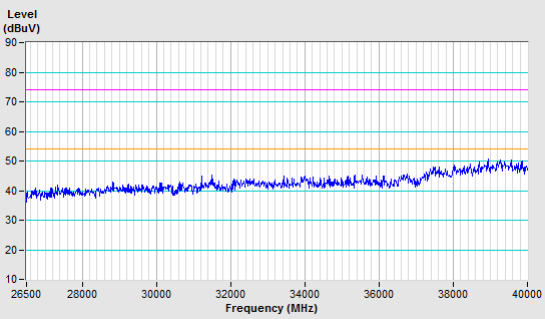
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	101.06 PK			1.28 H	314	96.69	4.37
2	*5290.00	91.22 AV			1.28 H	314	86.85	4.37
3	#10580.00	56.88 PK	68.20	-11.32	1.72 H	291	39.94	16.94
4	18000.00	56.20 PK	74.00	-17.80	2.88 H	253	33.72	22.48
5	18000.00	48.79 AV	54.00	-5.21	2.88 H	253	26.31	22.48

Remarks:

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





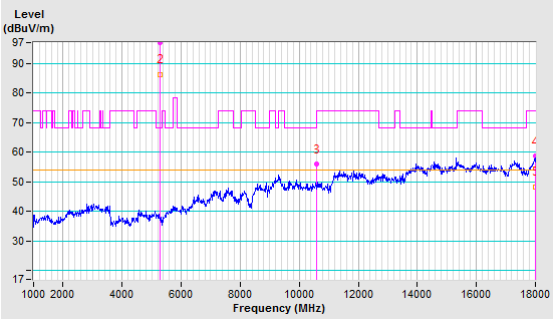


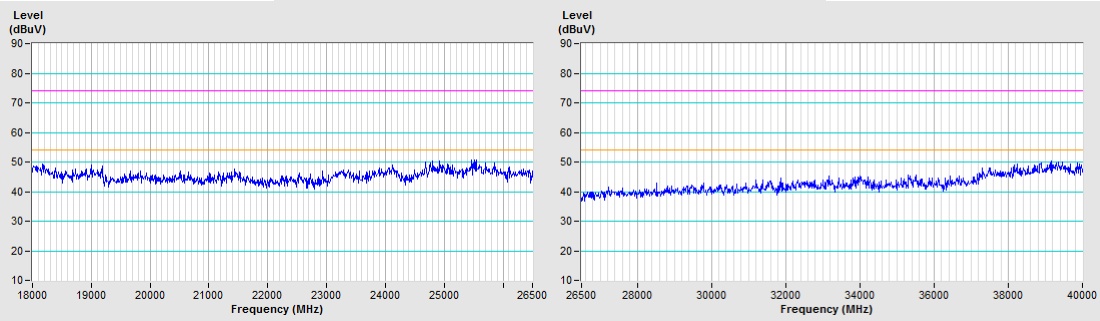
CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5290.00	96.89 PK			1.52 V	335	92.52	4.37
2	*5290.00	86.25 AV			1.52 V	335	81.88	4.37
3	#10580.00	55.88 PK	68.20	-12.32	1.86 V	299	38.94	16.94
4	18000.00	58.59 PK	74.00	-15.41	1.30 V	126	36.11	22.48
5	18000.00	48.29 AV	54.00	-5.71	1.30 V	126	25.81	22.48

Remarks:

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



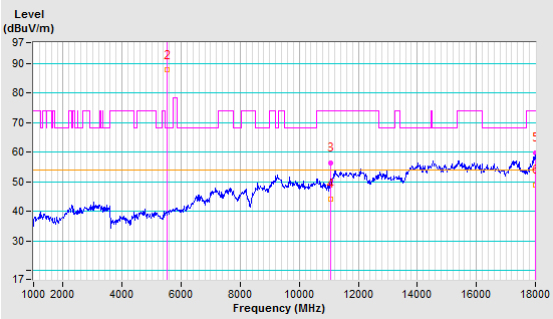


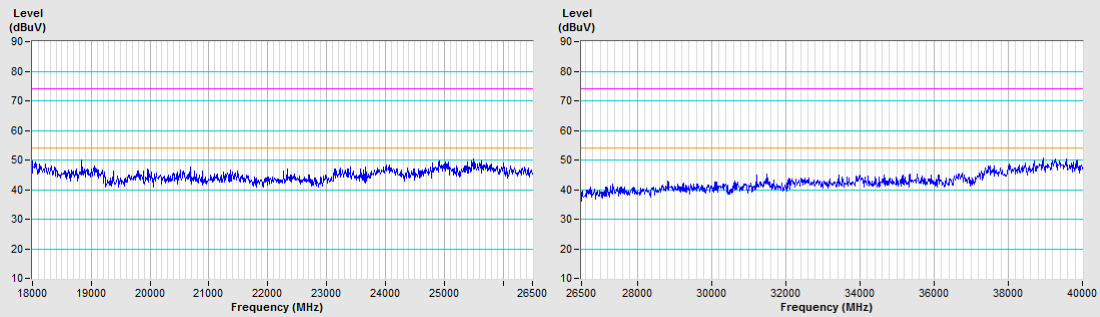
CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5530.00	98.77 PK			1.10 H	308	94.15	4.62
2	*5530.00	87.74 AV			1.10 H	308	83.12	4.62
3	11060.00	56.39 PK	74.00	-17.61	1.92 H	265	39.67	16.72
4	11060.00	44.10 AV	54.00	-9.90	1.92 H	265	27.38	16.72
5	18000.00	59.70 PK	74.00	-14.30	2.69 H	351	37.22	22.48
6	18000.00	48.87 AV	54.00	-5.13	2.69 H	351	26.39	22.48

Remarks:

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



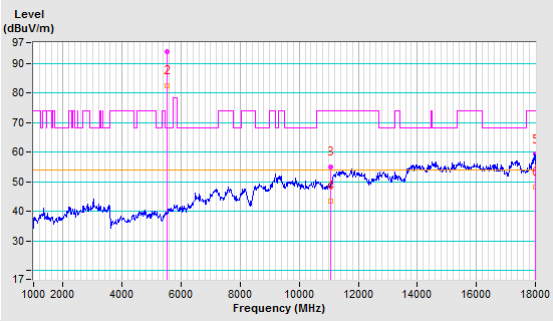


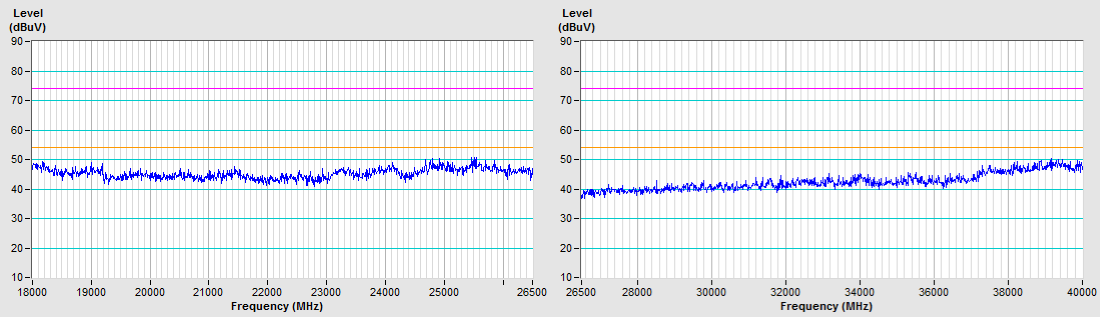
CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5530.00	93.88 PK			1.55 V	348	89.26	4.62
2	*5530.00	82.46 AV			1.55 V	348	77.84	4.62
3	11060.00	55.05 PK	74.00	-18.95	1.87 V	201	38.33	16.72
4	11060.00	43.37 AV	54.00	-10.63	1.87 V	201	26.65	16.72
5	18000.00	59.22 PK	74.00	-14.78	1.88 V	173	36.74	22.48
6	18000.00	48.17 AV	54.00	-5.83	1.88 V	173	25.69	22.48

Remarks:

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



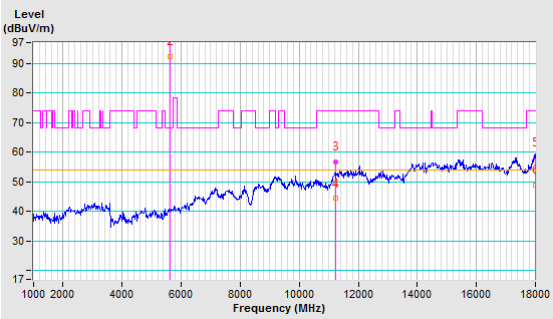


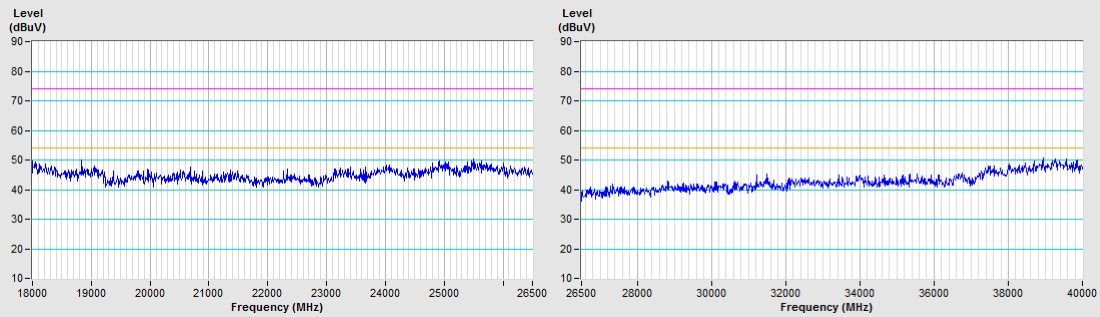
CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	103.63 PK			1.28 H	296	98.70	4.93
2	*5610.00	92.34 AV			1.28 H	296	87.41	4.93
3	11220.00	56.81 PK	74.00	-17.19	1.61 H	231	39.78	17.03
4	11220.00	44.30 AV	54.00	-9.70	1.61 H	231	27.27	17.03
5	18000.00	57.98 PK	74.00	-16.02	2.81 H	257	35.50	22.48
6	18000.00	48.80 AV	54.00	-5.20	2.81 H	257	26.32	22.48

Remarks:

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



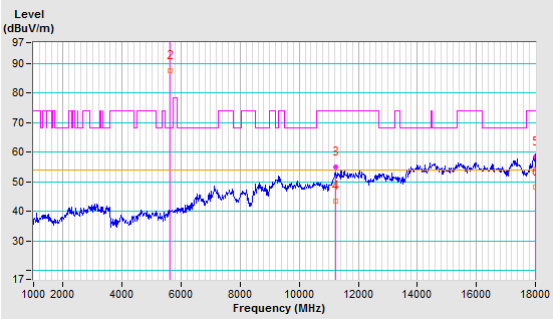


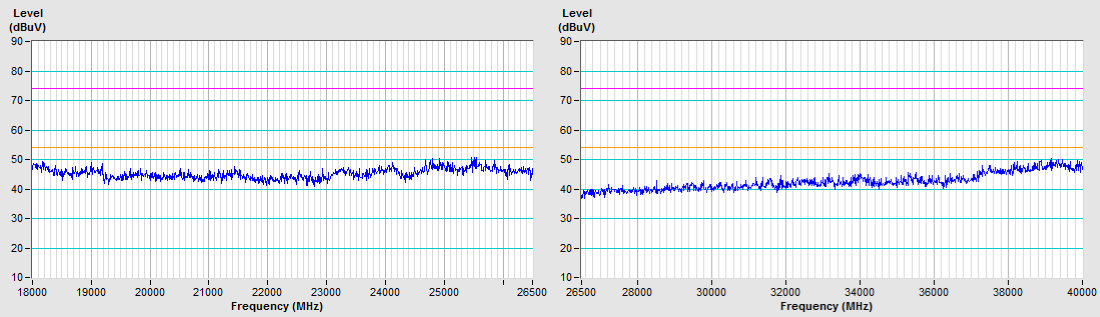
CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5610.00	98.76 PK			1.38 V	334	93.83	4.93
2	*5610.00	87.53 AV			1.38 V	334	82.60	4.93
3	11220.00	55.08 PK	74.00	-18.92	1.88 V	255	38.05	17.03
4	11220.00	43.37 AV	54.00	-10.63	1.88 V	255	26.34	17.03
5	18000.00	58.50 PK	74.00	-15.50	1.41 V	137	36.02	22.48
6	18000.00	48.15 AV	54.00	-5.85	1.41 V	137	25.67	22.48

Remarks:

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



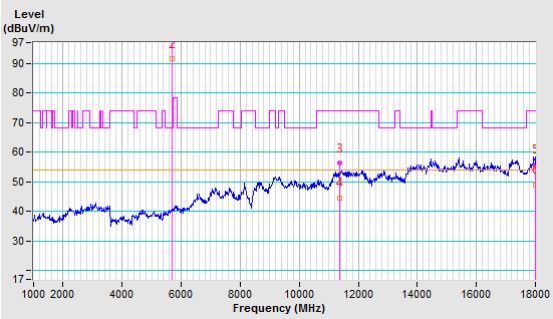


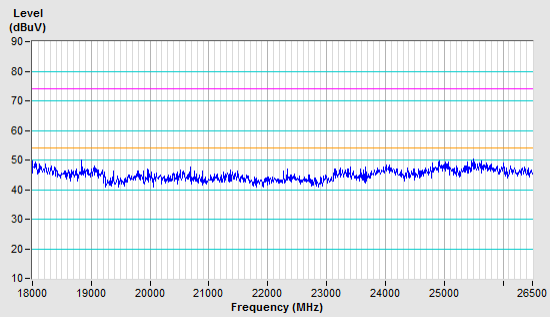
CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

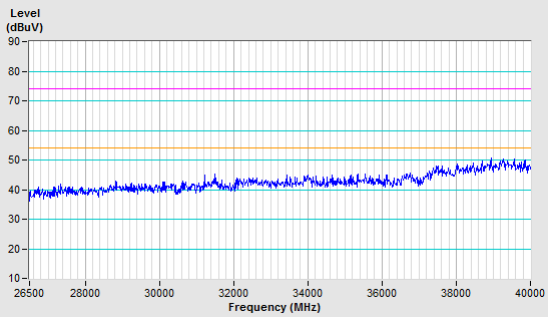
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5690.00	102.63 PK			1.18 H	297	97.39	5.24
2	*5690.00	91.47 AV			1.18 H	297	86.23	5.24
3	11380.00	56.23 PK	74.00	-17.77	1.79 H	66	39.43	16.80
4	11380.00	44.58 AV	54.00	-9.42	1.79 H	66	27.78	16.80
5	18000.00	55.78 PK	74.00	-18.22	2.50 H	238	33.30	22.48
6	18000.00	48.91 AV	54.00	-5.09	2.50 H	238	26.43	22.48

Remarks:

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





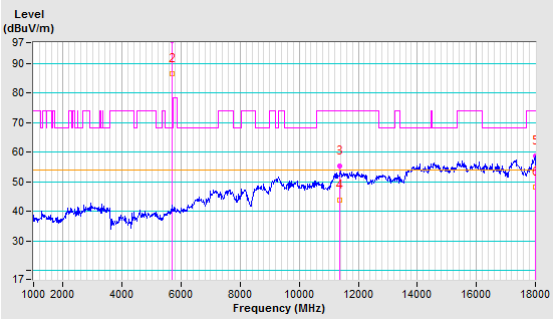


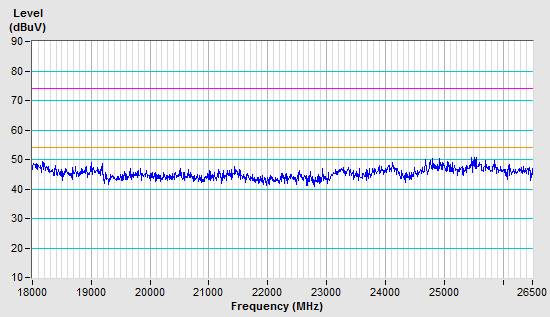
CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

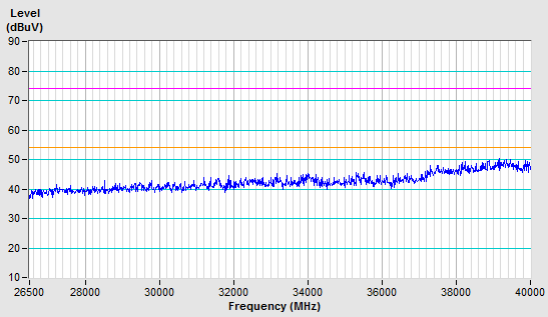
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5690.00	97.82 PK			1.50 V	353	92.58	5.24
2	*5690.00	86.59 AV			1.50 V	353	81.35	5.24
3	11380.00	55.42 PK	74.00	-18.58	1.39 V	269	38.62	16.80
4	11380.00	43.72 AV	54.00	-10.28	1.39 V	269	26.92	16.80
5	18000.00	58.73 PK	74.00	-15.27	1.27 V	188	36.25	22.48
6	18000.00	48.28 AV	54.00	-5.72	1.27 V	188	25.80	22.48

Remarks:

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





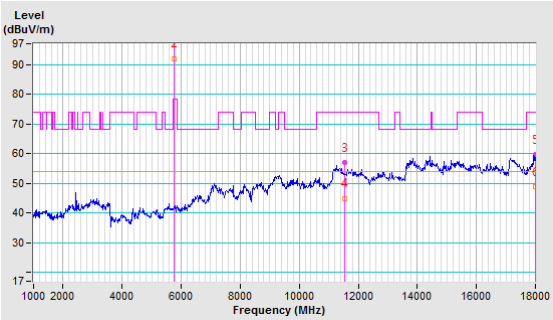


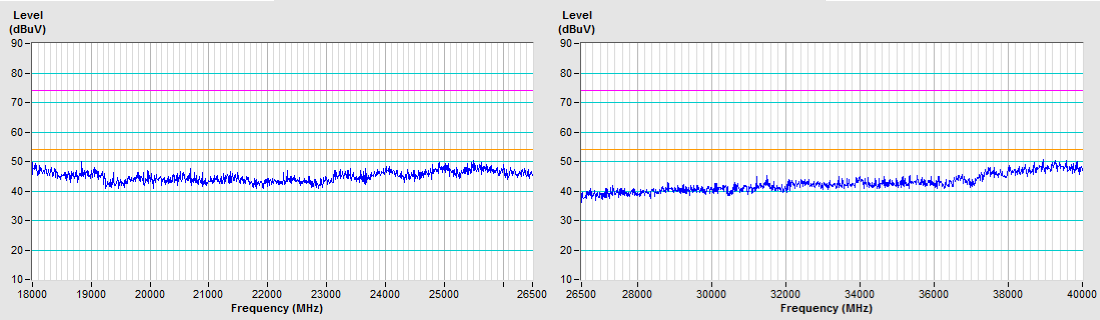
CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5775.00	102.11 PK			1.21 H	291	96.28	5.83
2	*5775.00	91.92 AV			1.21 H	291	86.09	5.83
3	11550.00	56.84 PK	74.00	-17.16	1.91 H	237	39.50	17.34
4	11550.00	44.91 AV	54.00	-9.09	1.91 H	237	27.57	17.34
5	18000.00	59.55 PK	74.00	-14.45	2.55 H	243	37.07	22.48
6	18000.00	48.75 AV	54.00	-5.25	2.55 H	243	26.27	22.48

Remarks:

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



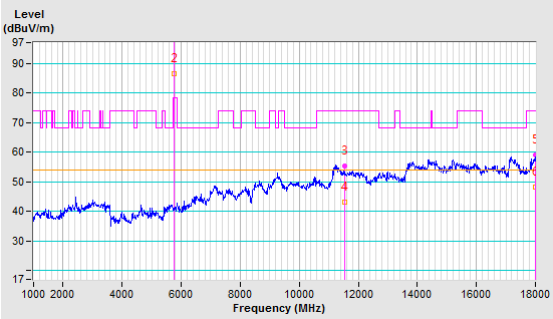


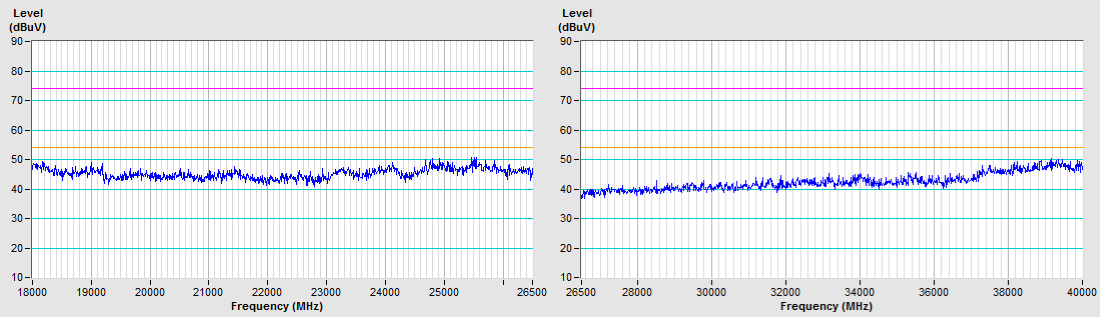
CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	1GHz ~ 40GHz		

ANTENNA POLARITY & TEST DISTANCE: 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	*5775.00	97.89 PK			1.36 V	309	92.06	5.83
2	*5775.00	86.59 AV			1.36 V	309	80.76	5.83
3	11550.00	55.28 PK	74.00	-18.72	1.52 V	201	37.94	17.34
4	11550.00	43.16 AV	54.00	-10.84	1.52 V	201	25.82	17.34
5	18000.00	59.16 PK	74.00	-14.84	1.27 V	145	36.68	22.48
6	18000.00	48.11 AV	54.00	-5.89	1.27 V	145	25.63	22.48

Remarks:

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





4.1.8 Test Results for Bandedge above 1GHz

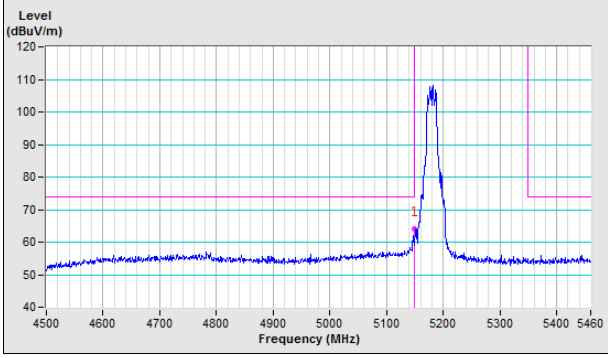
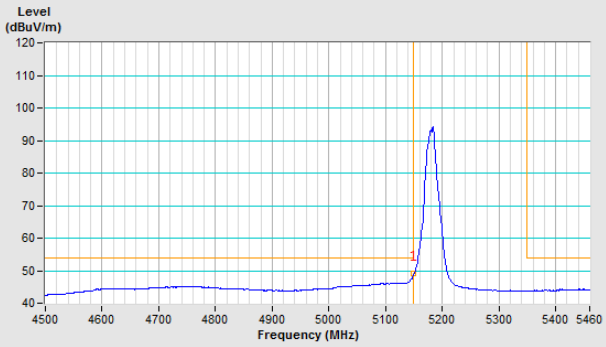
802.11a

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5150.00	64.0 PK	74.0	-10.0	1.00 H	320	58.7	5.3
AV.1	5150.00	49.2 AV	54.0	-4.8	1.00 H	320	44.0	5.3

Remarks:

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

Peak	Average
	

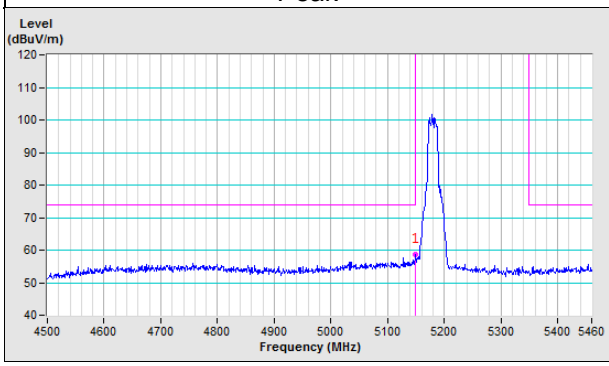
CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

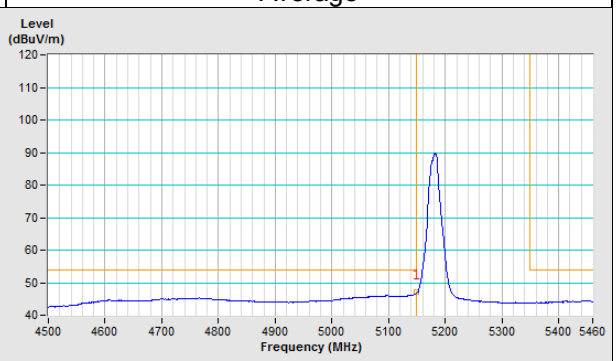
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
PK.1	5150.00	58.5 PK	74.0	-15.5	1.03 V	327	53.2	5.3
AV.1	5150.00	47.2 AV	54.0	-6.8	1.03 V	327	41.9	5.3

Remarks:

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

Peak	Average





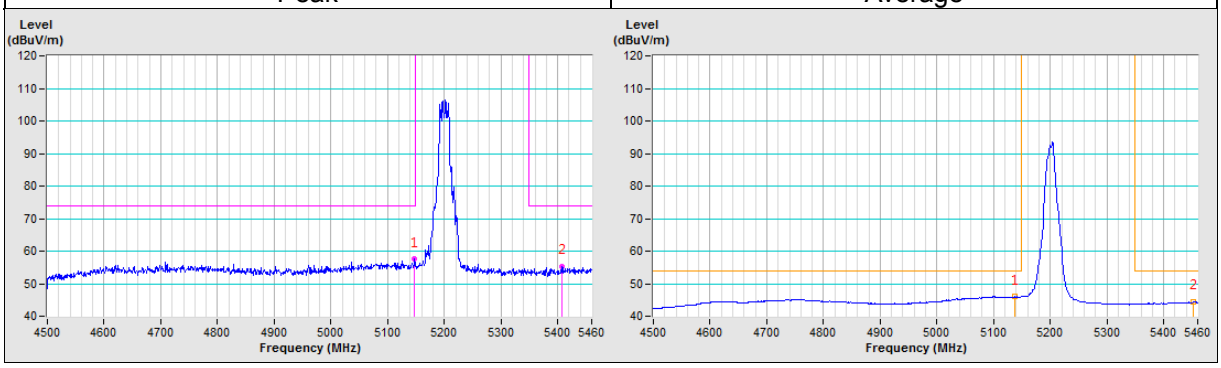
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5147.81	57.5 PK	74.0	-16.5	1.21 H	334	52.3	5.3
PK.2	5406.79	55.3 PK	74.0	-18.7	1.21 H	334	50.6	4.7
AV.1	5137.97	46.0 AV	54.0	-8.0	1.21 H	334	40.6	5.3
AV.2	5452.44	44.4 AV	54.0	-9.6	1.21 H	334	39.7	4.7

Remarks:

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

Peak	Average



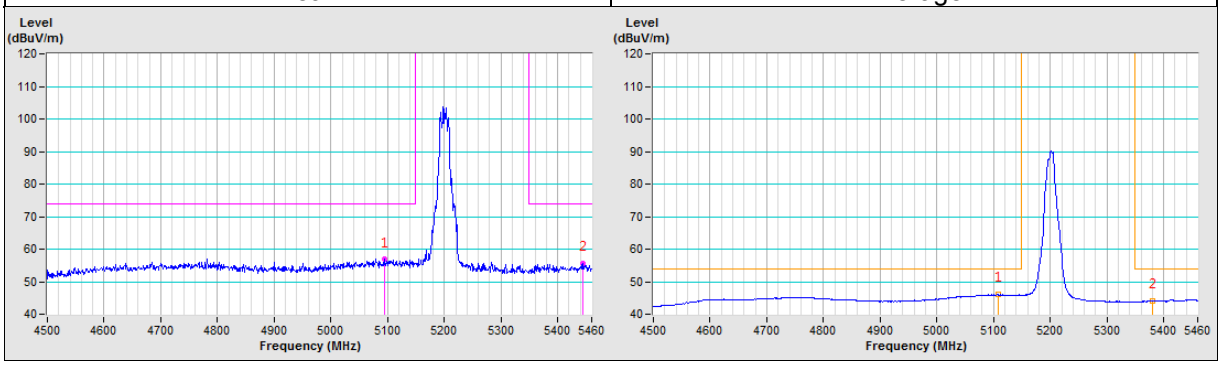
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5094.14	56.8 PK	74.0	-17.2	1.21 V	356	51.4	5.4
PK.2	5445.22	55.7 PK	74.0	-18.4	1.21 V	356	50.9	4.7
AV.1	5108.09	46.0 AV	54.0	-8.0	1.21 V	356	40.6	5.4
AV.2	5381.04	44.1 AV	54.0	-9.9	1.21 V	356	39.5	4.6

Remarks:

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

Peak	Average



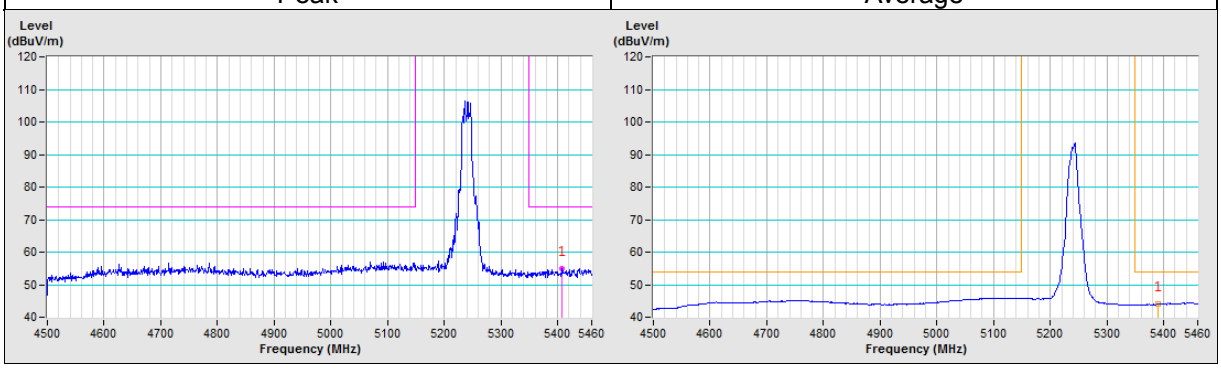
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5407.68	55.0 PK	74.0	-19.0	1.02 H	321	50.3	4.7
AV.1	5389.42	44.0 AV	54.0	-10.0	1.02 H	321	39.4	4.7

Remarks:

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

Peak	Average



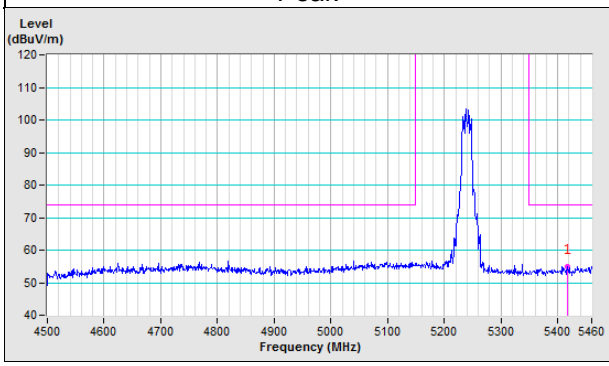
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

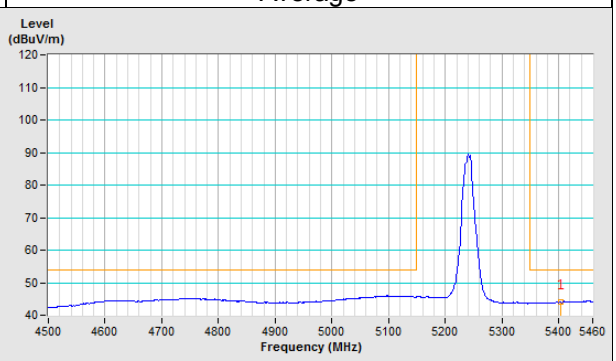
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
PK.1	5418.07	54.9 PK	74.0	-19.1	1.19 V	352	50.2	4.7
AV.1	5403.58	44.1 AV	54.0	-9.9	1.19 V	352	39.3	4.7

Remarks:

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

Peak	Average





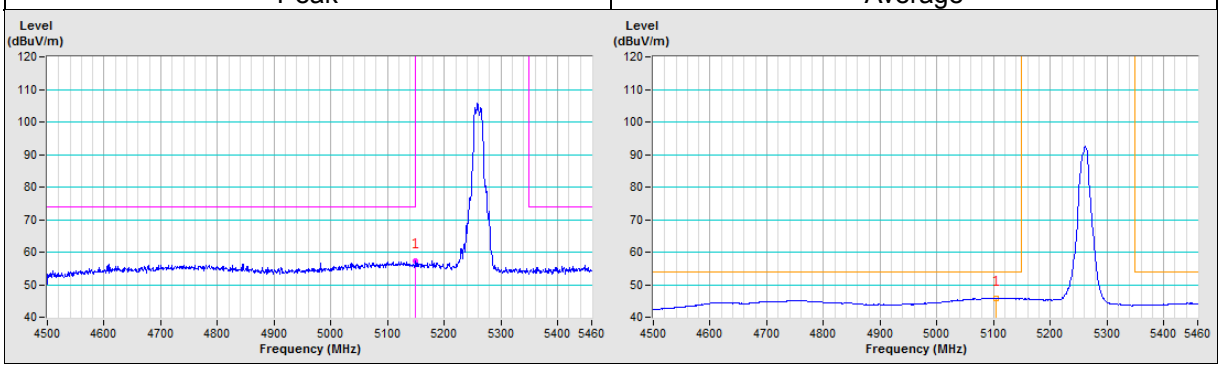
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5149.10	57.4 PK	74.0	-16.6	1.06 H	319	52.1	5.3
AV.1	5104.30	45.9 AV	54.0	-8.1	1.06 H	319	40.5	5.4

Remarks:

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

Peak	Average



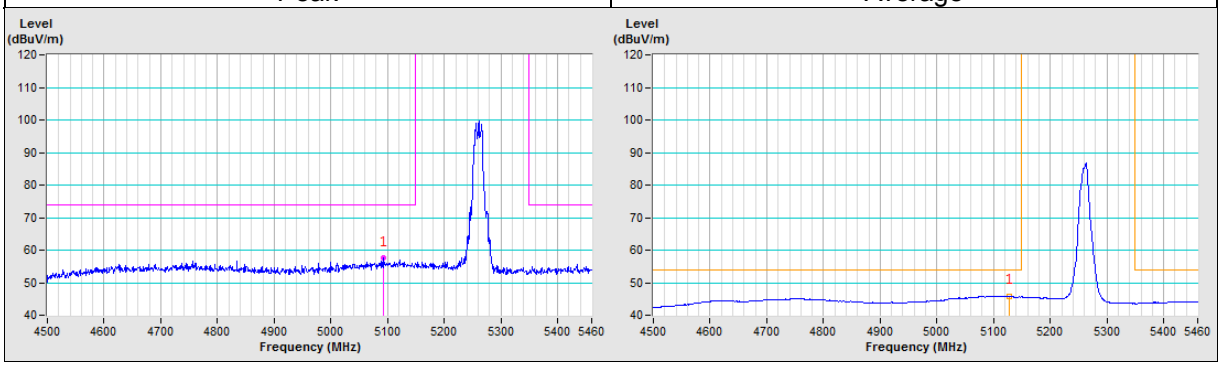
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5092.20	57.5 PK	74.0	-16.5	1.38 V	346	52.1	5.4
AV.1	5128.25	45.9 AV	54.0	-8.2	1.38 V	346	40.5	5.4

Remarks:

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

Peak	Average



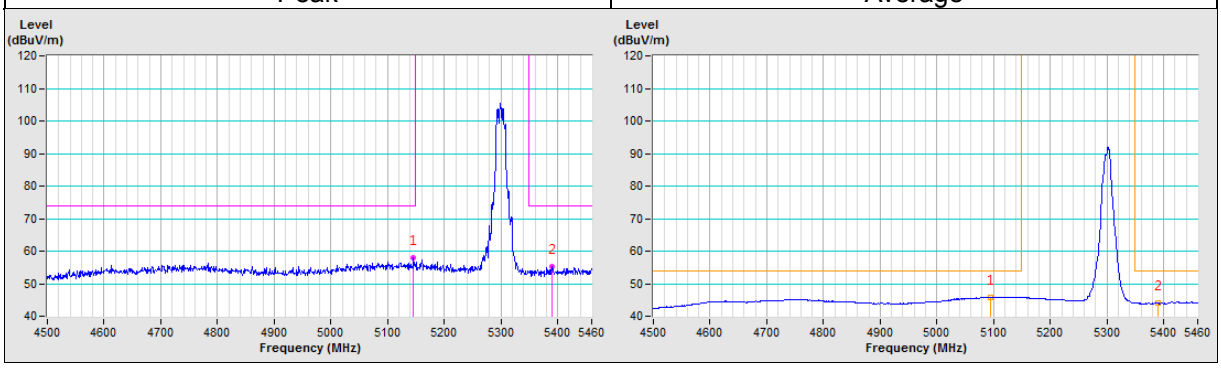
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5145.82	58.0 PK	74.0	-16.0	1.08 H	323	52.7	5.3
PK.2	5389.90	55.4 PK	74.0	-18.6	1.08 H	323	50.7	4.7
AV.1	5095.51	45.9 AV	54.0	-8.1	1.08 H	323	40.5	5.4
AV.2	5389.73	44.0 AV	54.0	-10.0	1.08 H	323	39.3	4.7

Remarks:

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

Peak	Average

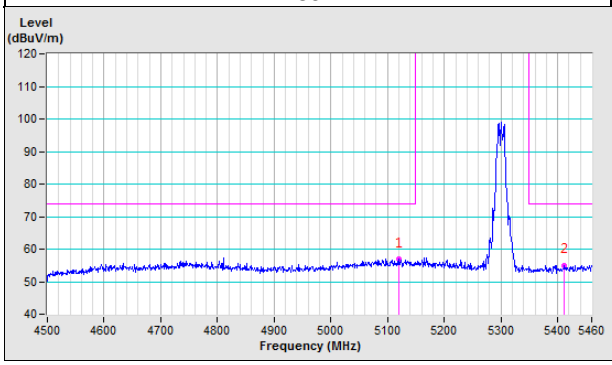
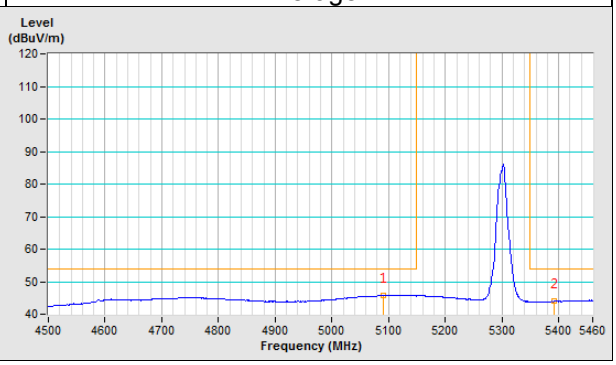


CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5119.73	56.8 PK	74.0	-17.2	1.49 V	352	51.5	5.4
PK.2	5412.29	54.8 PK	74.0	-19.2	1.49 V	352	50.1	4.7
AV.1	5090.81	45.9 AV	54.0	-8.1	1.49 V	352	40.5	5.4
AV.2	5392.34	44.0 AV	54.0	-10.0	1.49 V	352	39.3	4.7

Remarks:

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

Peak	Average
	

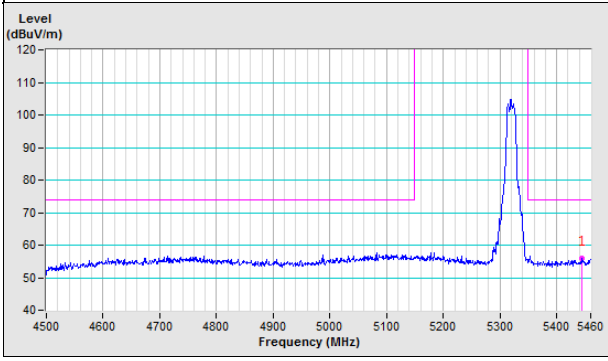
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

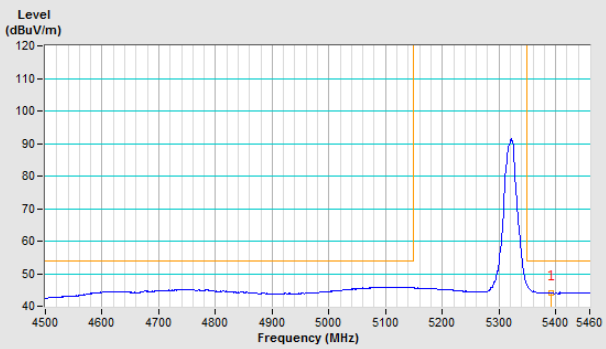
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
PK.1	5443.61	56.0 PK	74.0	-18.0	1.08 H	315	51.3	4.7
AV.1	5392.03	44.2 AV	54.0	-9.8	1.08 H	315	39.5	4.7

Remarks:

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

Peak	Average



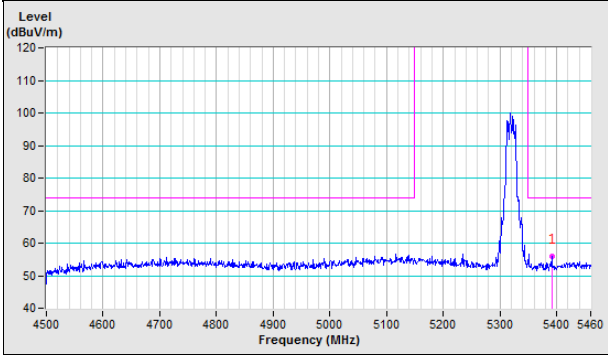
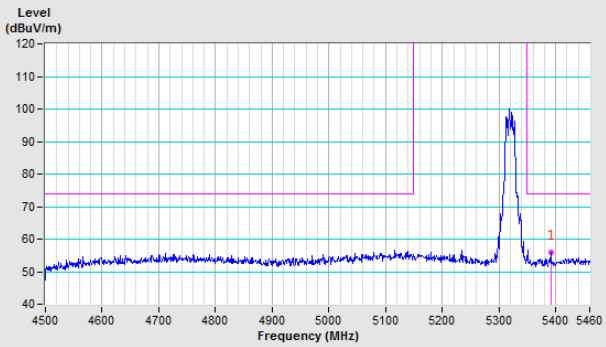


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5391.58	56.1 PK	74.0	-17.9	1.46 V	342	51.4	4.7
AV.1	5408.30	44.2 AV	54.0	-9.8	1.46 V	342	39.5	4.7

Remarks:

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

Peak	Average
	

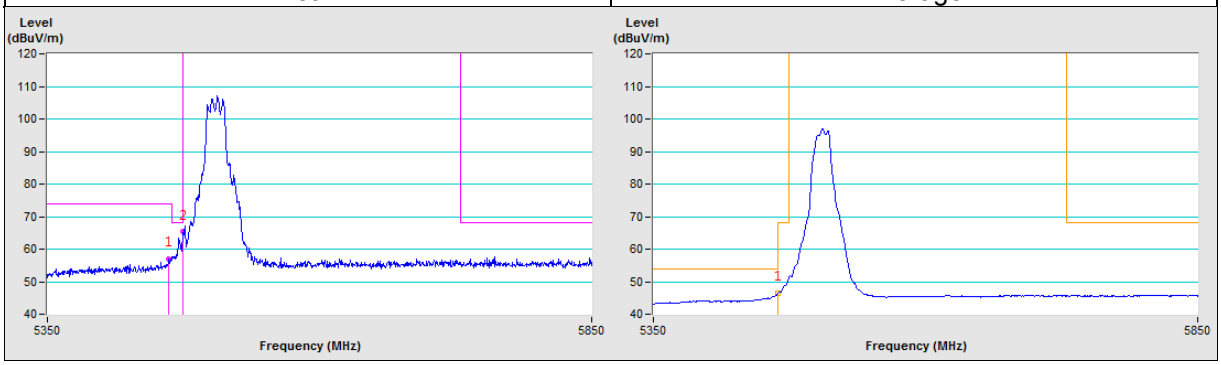
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5457.93	56.9 PK	74.0	-17.1	1.27 H	341	52.2	4.7
PK.2	#5470.00	65.3 PK	68.2	-2.9	1.27 H	341	60.7	4.6
AV.1	#5460.24	46.5 AV	68.2	-21.7	1.27 H	341	41.8	4.7

Remarks:

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

Peak	Average



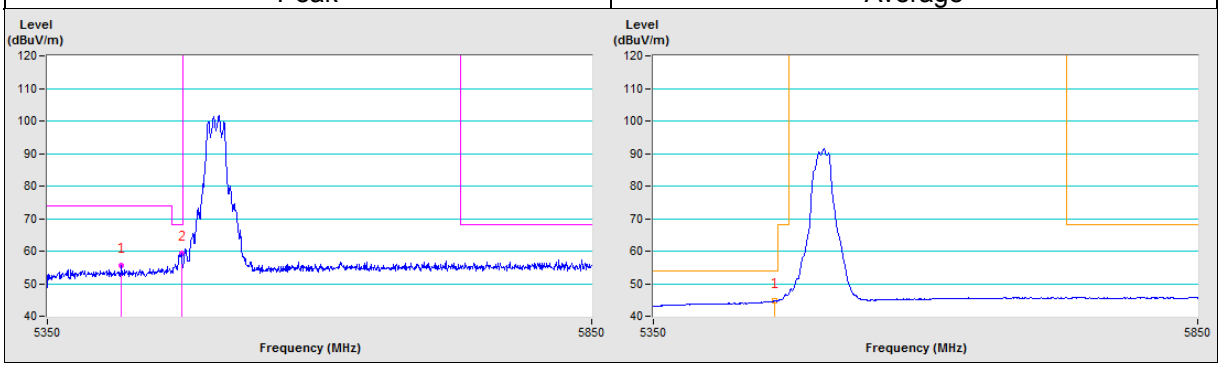
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5415.62	55.7 PK	74.0	-18.3	1.53 V	353	51.0	4.7
PK.2	#5469.01	59.3 PK	68.2	-8.9	1.53 V	353	54.7	4.6
AV.1	5457.57	44.7 AV	54.0	-9.3	1.53 V	353	40.0	4.7

Remarks:

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

Peak	Average

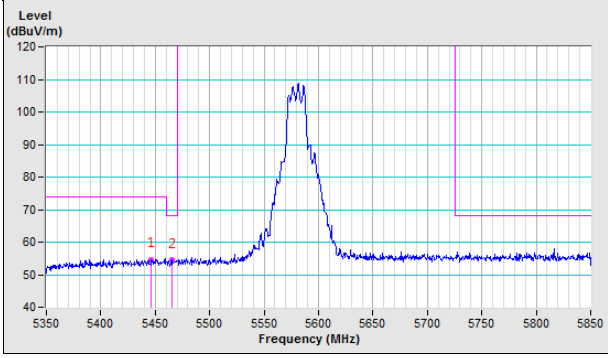
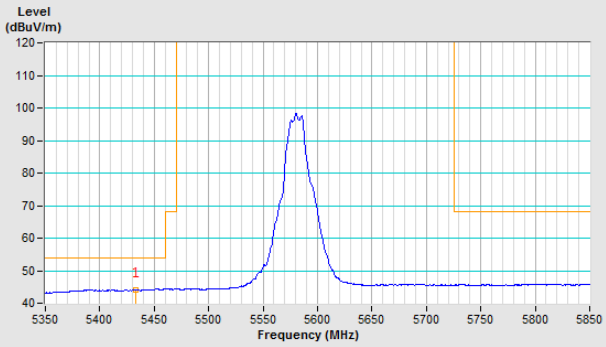


CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5446.44	54.7 PK	74.0	-19.4	1.24 H	339	49.9	4.7
PK.2	#5465.36	54.5 PK	68.2	-13.7	1.24 H	339	49.8	4.6
AV.1	5432.51	44.0 AV	54.0	-10.0	1.24 H	339	39.3	4.7

Remarks:

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

Peak	Average
	

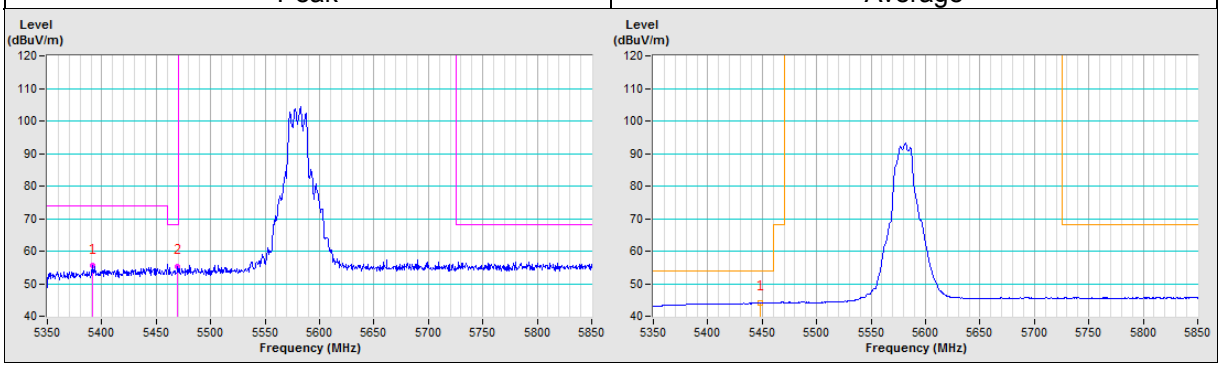
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5391.01	55.5 PK	74.0	-18.5	1.49 V	349	50.8	4.7
PK.2	#5469.07	55.4 PK	68.2	-12.8	1.49 V	349	50.8	4.6
AV.1	5448.23	44.2 AV	54.0	-9.8	1.49 V	349	39.5	4.7

Remarks:

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

Peak	Average



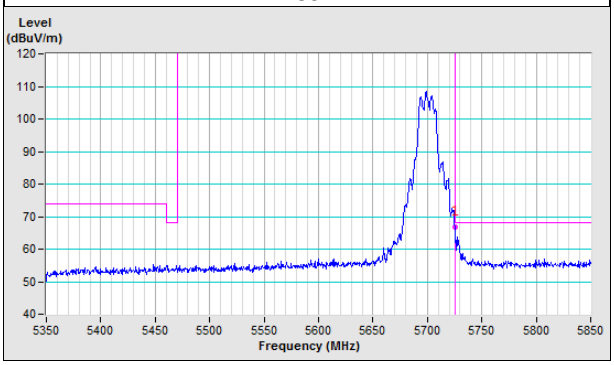
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5725.00	66.7 PK	68.2	-1.5	1.07 H	345	61.2	5.5

Remarks:

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

Peak



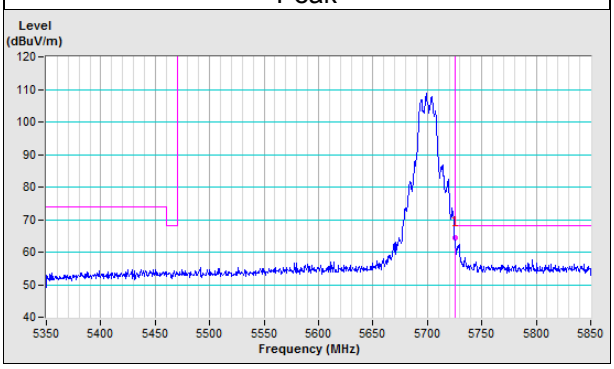
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5725.00	64.2 PK	68.2	-4.0	1.53 V	354	58.8	5.5

Remarks:

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

Peak



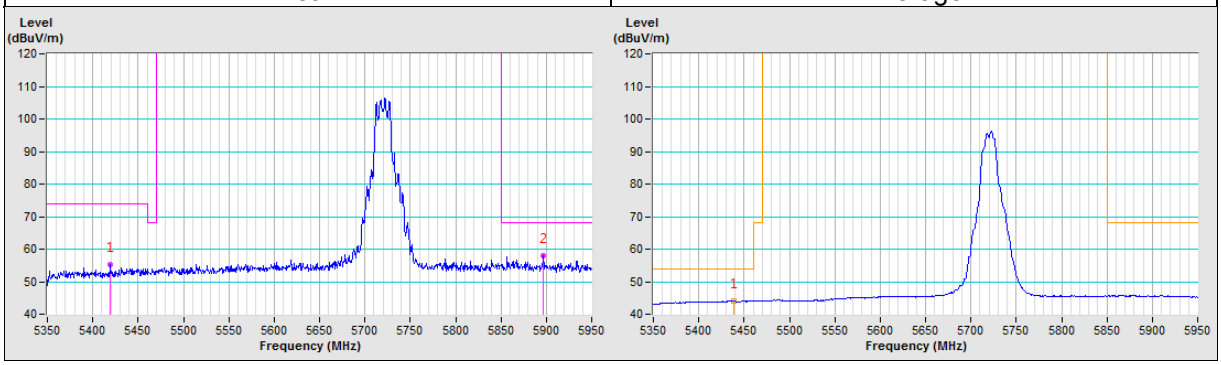
CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5419.36	55.4 PK	74.0	-18.6	1.29 H	286	50.7	4.7
PK.2	#5896.78	57.9 PK	68.2	-10.3	1.29 H	286	51.6	6.3
AV.1	5438.55	44.1 AV	54.0	-9.9	1.29 H	286	39.4	4.7

Remarks:

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

Peak	Average

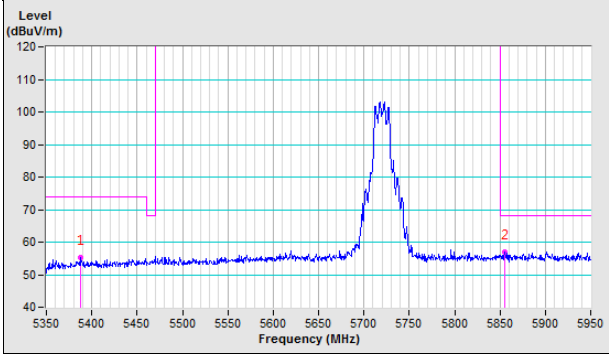
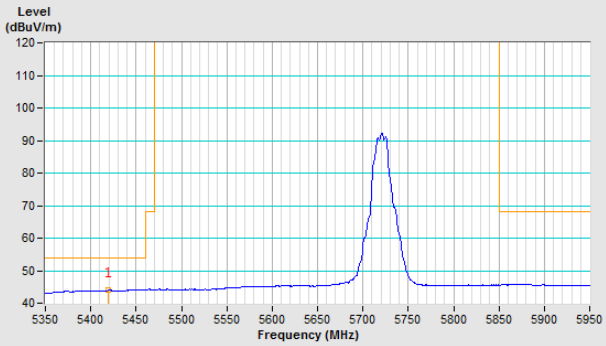


CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5387.12	55.4 PK	74.0	-18.6	1.57 V	342	50.7	4.7
PK.2	#5855.71	57.0 PK	68.2	-11.2	1.57 V	342	50.8	6.2
AV.1	5419.73	44.0 AV	54.0	-10.0	1.57 V	342	39.3	4.7

Remarks:

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

Peak	Average
	

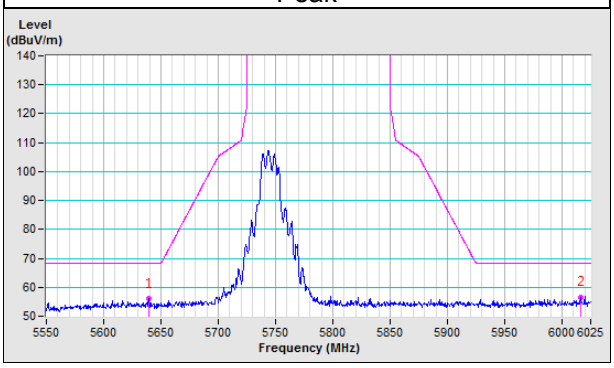
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5639.45	56.1 PK	68.2	-12.1	1.00 H	347	51.1	5.0
PK.2	#6016.43	56.7 PK	68.2	-11.5	1.00 H	347	50.3	6.4

Remarks:

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

Peak



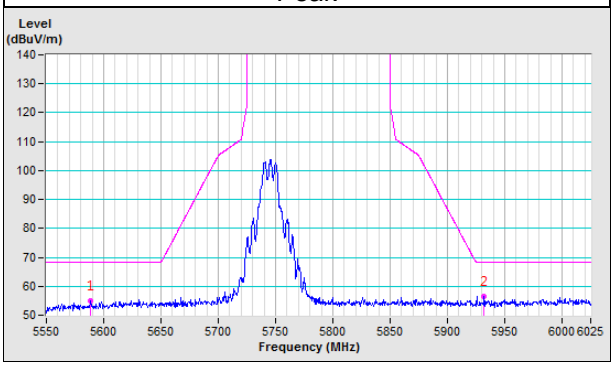
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5588.65	54.9 PK	68.2	-13.3	1.44 V	356	50.1	4.9
PK.2	#5931.97	56.6 PK	68.2	-11.6	1.44 V	356	50.4	6.3

Remarks:

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

Peak



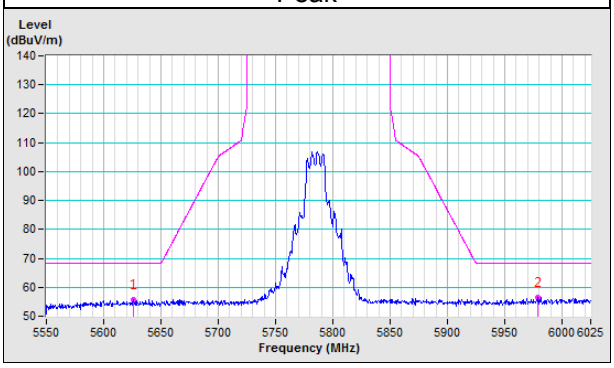
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5625.66	55.6 PK	68.2	-12.6	1.02 H	341	50.6	5.0
PK.2	#5978.46	56.4 PK	68.2	-11.8	1.02 H	341	50.1	6.3

Remarks:

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

Peak



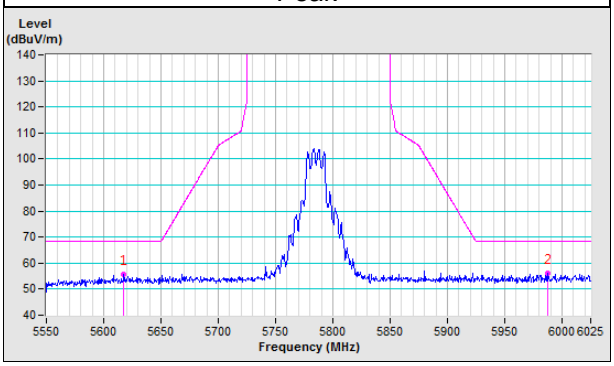
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5617.66	55.6 PK	68.2	-12.6	1.51 V	357	50.6	5.0
PK.2	#5987.96	56.2 PK	68.2	-12.0	1.51 V	357	49.8	6.4

Remarks:

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

Peak



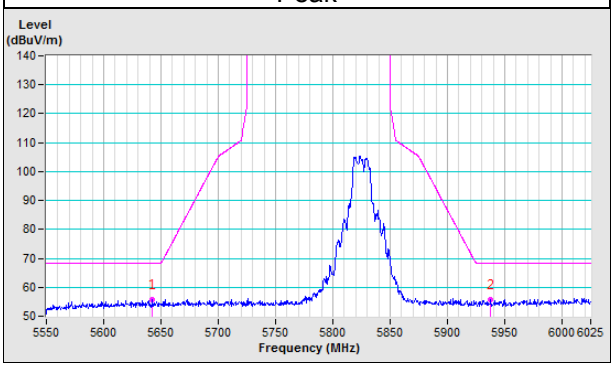
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5642.73	55.7 PK	68.2	-12.5	1.00 H	349	50.7	5.0
PK.2	#5937.62	55.8 PK	68.2	-12.4	1.00 H	349	49.5	6.3

Remarks:

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

Peak



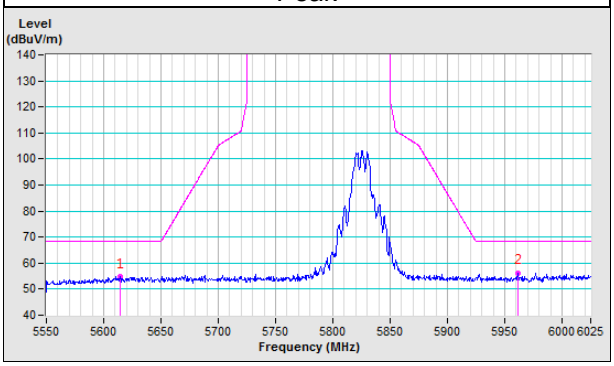
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5614.46	54.7 PK	68.2	-13.6	1.54 V	348	49.7	5.0
PK.2	#5961.49	56.0 PK	68.2	-12.2	1.54 V	348	49.7	6.3

Remarks:

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

Peak



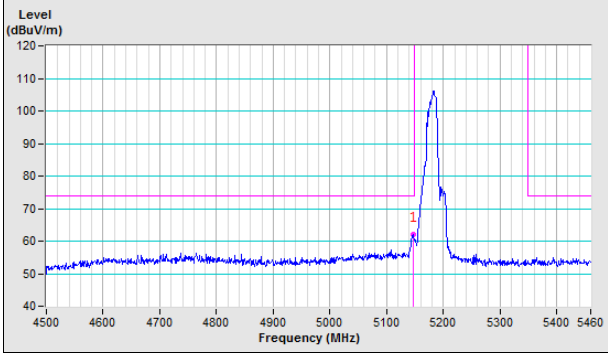
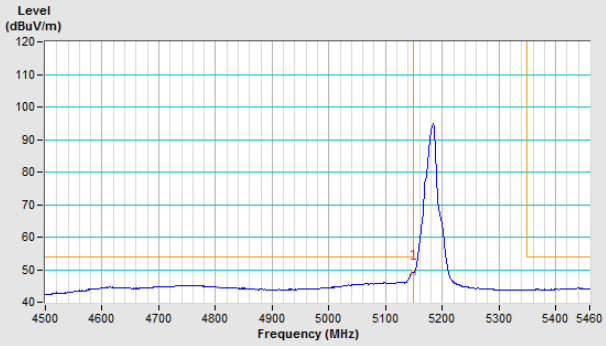
802.11n (HT20)

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5146.18	62.1 PK	74.0	-11.9	1.36 H	315	56.9	5.3
AV.1	5150.00	49.3 AV	54.0	-4.7	1.36 H	315	44.0	5.3

Remarks:

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

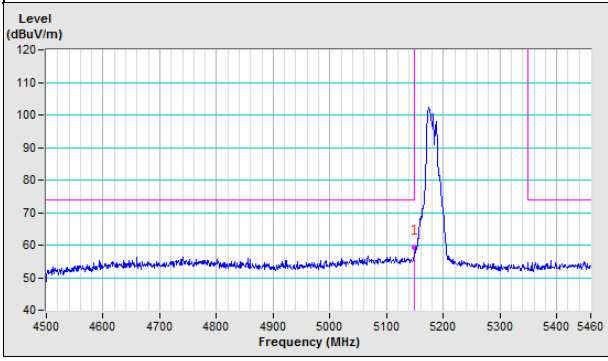
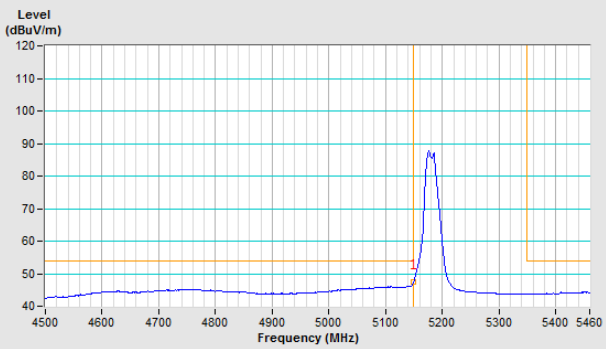
Peak	Average
	

CHANNEL	TX Channel 36	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5150.00	59.4 PK	74.0	-14.6	1.52 V	348	54.1	5.3
AV.1	5150.00	47.6 AV	54.0	-6.4	1.52 V	348	42.3	5.3

Remarks:

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

Peak	Average
	

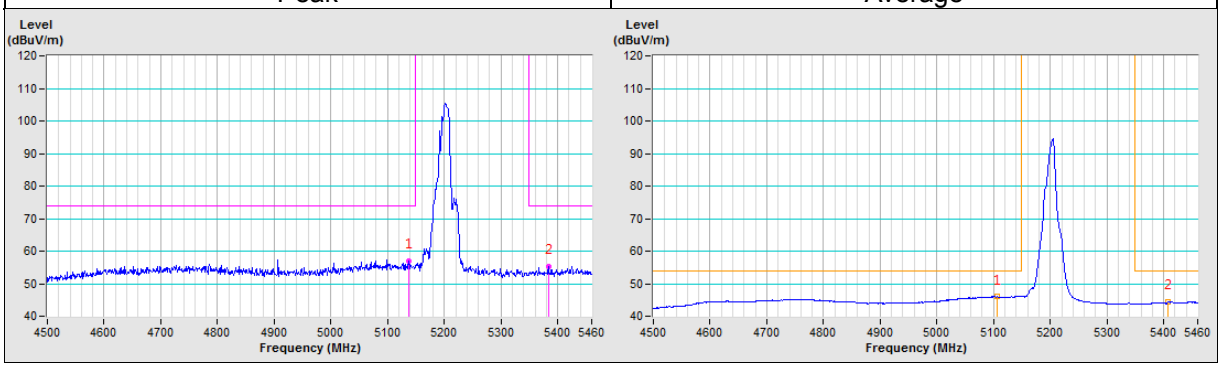
CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5137.73	57.1 PK	74.0	-16.9	1.29 H	313	51.8	5.3
PK.2	5383.30	55.3 PK	74.0	-18.7	1.29 H	313	50.7	4.7
AV.1	5106.74	46.0 AV	54.0	-8.0	1.29 H	313	40.6	5.4
AV.2	5407.94	44.4 AV	54.0	-9.6	1.29 H	313	39.7	4.7

Remarks:

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

Peak	Average

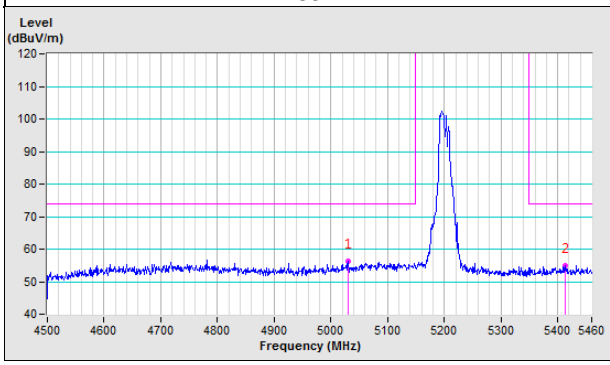
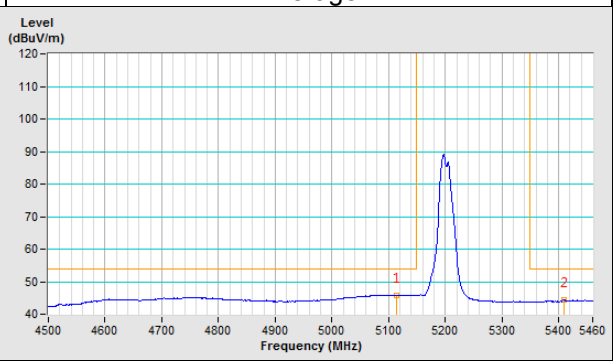


CHANNEL	TX Channel 40	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5030.35	56.3 PK	74.0	-17.7	1.46 V	344	51.3	5.0
PK.2	5414.30	55.0 PK	74.0	-19.0	1.46 V	344	50.2	4.7
AV.1	5113.66	45.9 AV	54.0	-8.1	1.46 V	344	40.5	5.4
AV.2	5409.77	44.4 AV	54.0	-9.6	1.46 V	344	39.7	4.7

Remarks:

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

Peak	Average
	

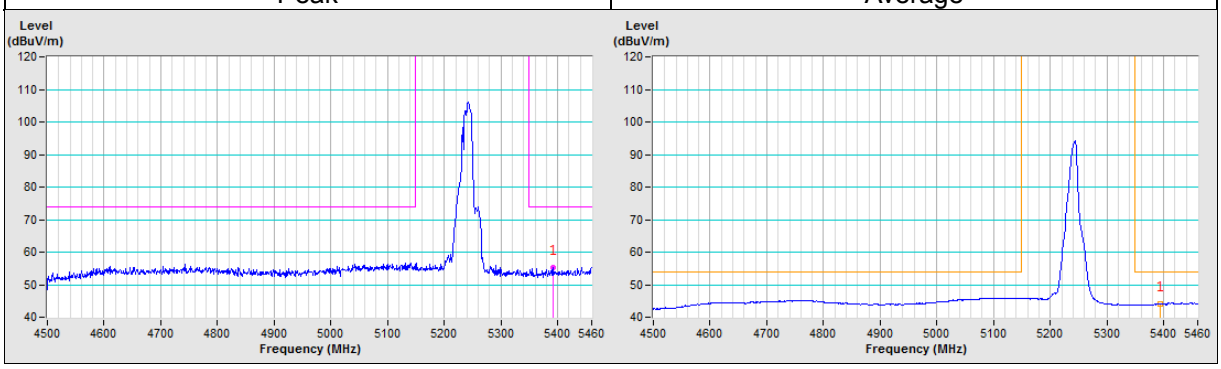
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5391.41	55.2 PK	74.0	-18.8	1.33 H	320	50.6	4.7
AV.1	5393.88	44.2 AV	54.0	-9.8	1.33 H	320	39.5	4.7

Remarks:

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

Peak	Average



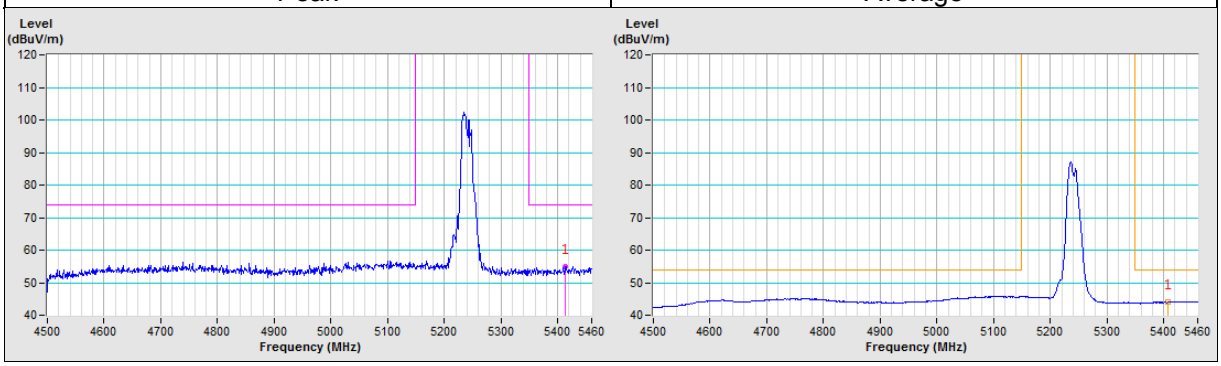
CHANNEL	TX Channel 48	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5412.86	55.0 PK	74.0	-19.0	1.48 V	349	50.2	4.7
AV.1	5407.58	44.2 AV	54.0	-9.8	1.48 V	349	39.5	4.7

Remarks:

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

Peak	Average



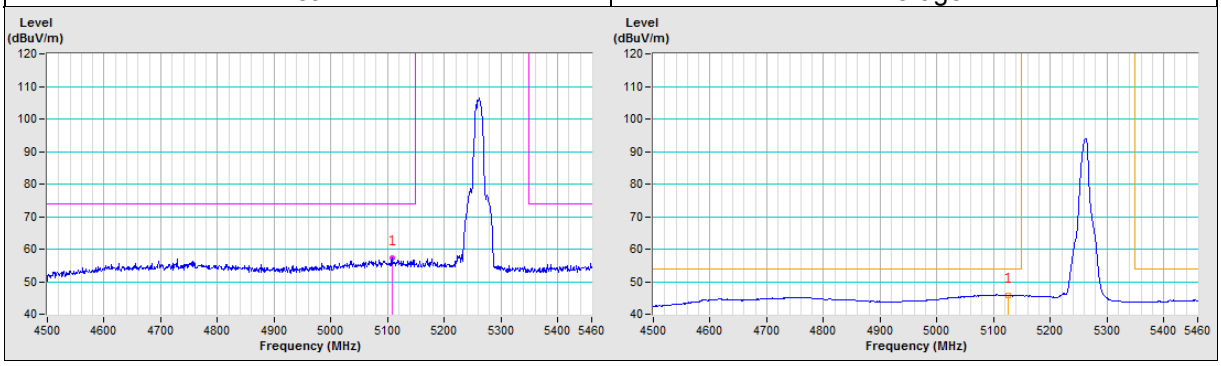
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5107.70	57.2 PK	74.0	-16.8	1.03 H	292	51.8	5.4
AV.1	5125.08	45.8 AV	54.0	-8.2	1.03 H	292	40.5	5.4

Remarks:

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

Peak	Average



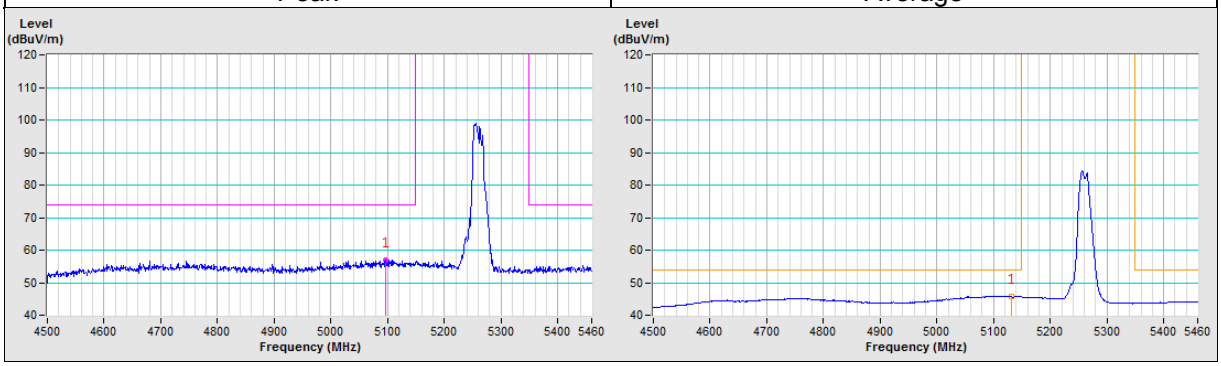
CHANNEL	TX Channel 52	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5096.18	56.9 PK	74.0	-17.1	1.38 V	339	51.5	5.4
AV.1	5130.94	45.8 AV	54.0	-8.2	1.38 V	339	40.4	5.3

Remarks:

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

Peak	Average



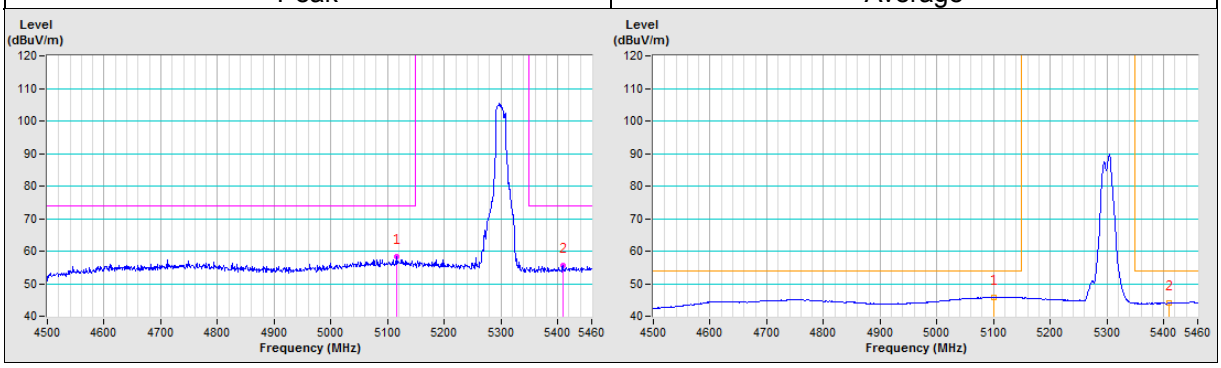
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5115.12	58.3 PK	74.0	-15.7	1.06 H	298	52.9	5.4
PK.2	5408.57	55.5 PK	74.0	-18.5	1.06 H	298	50.8	4.7
AV.1	5100.43	45.9 AV	54.0	-8.1	1.06 H	298	40.5	5.4
AV.2	5408.81	44.2 AV	54.0	-9.8	1.06 H	298	39.5	4.7

Remarks:

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

Peak	Average



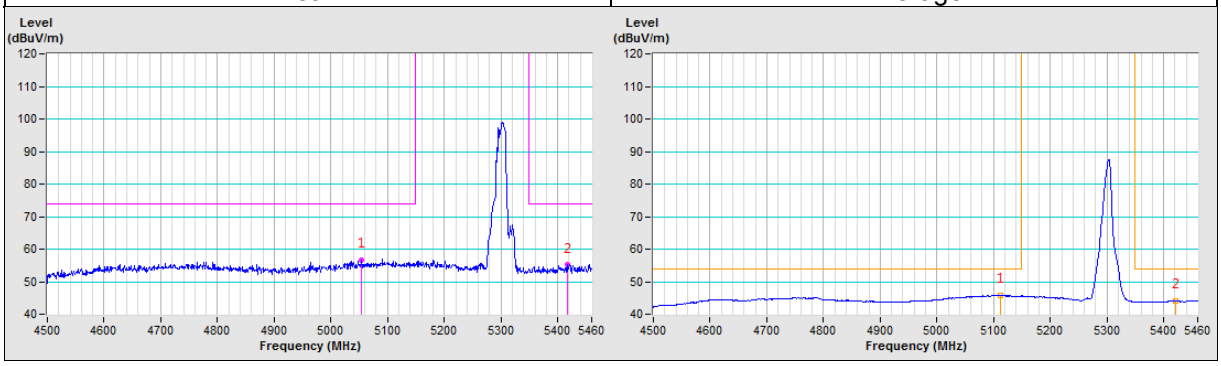
CHANNEL	TX Channel 60	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5054.30	56.7 PK	74.0	-17.3	1.41 V	342	51.5	5.2
PK.2	5417.50	55.1 PK	74.0	-18.9	1.41 V	342	50.4	4.7
AV.1	5112.98	45.8 AV	54.0	-8.2	1.41 V	342	40.4	5.4
AV.2	5421.10	44.1 AV	54.0	-9.9	1.41 V	342	39.4	4.7

Remarks:

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

Peak	Average



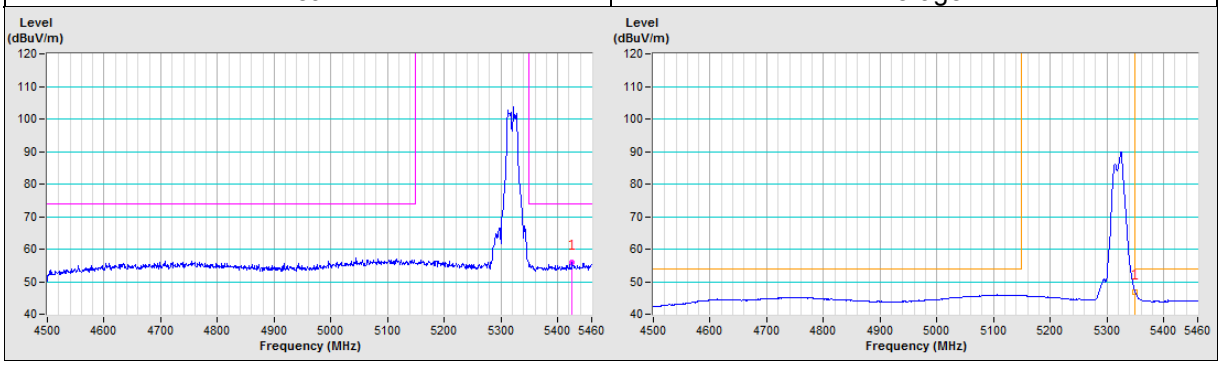
CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5424.96	55.9 PK	74.0	-18.1	1.09 H	288	51.2	4.7
AV.1	5350.00	46.9 AV	54.0	-7.1	1.09 H	288	42.4	4.5

Remarks:

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

Peak	Average

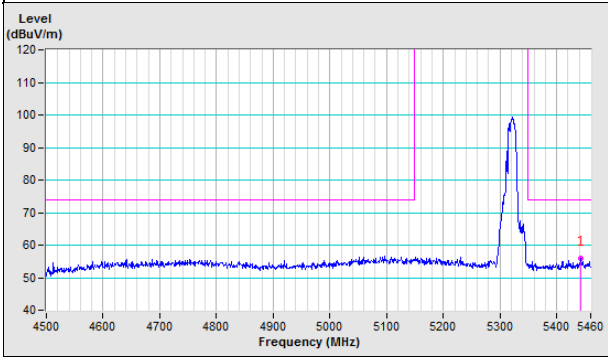
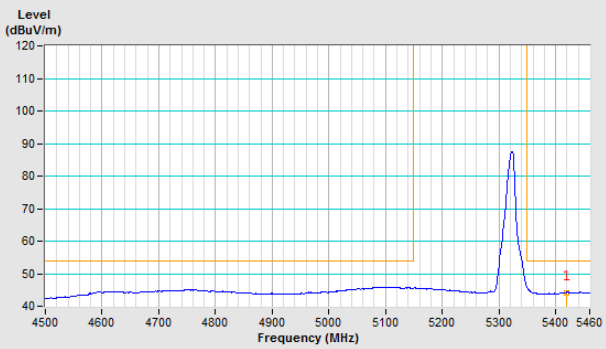


CHANNEL	TX Channel 64	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5443.08	55.9 PK	74.0	-18.1	1.39 V	345	51.2	4.7
AV.1	5418.67	44.2 AV	54.0	-9.8	1.39 V	345	39.5	4.7

Remarks:

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

Peak	Average
	

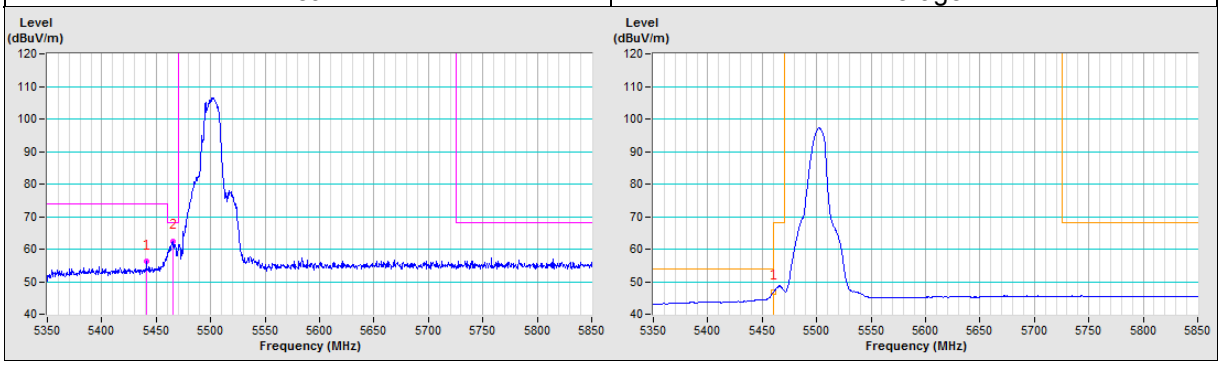
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5441.32	56.1 PK	74.0	-17.9	1.08 H	308	51.4	4.7
PK.2	#5464.95	62.4 PK	68.2	-5.8	1.08 H	308	57.8	4.6
AV.1	5460.00	46.8 AV	54.0	-7.2	1.08 H	308	42.2	4.7

Remarks:

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

Peak	Average



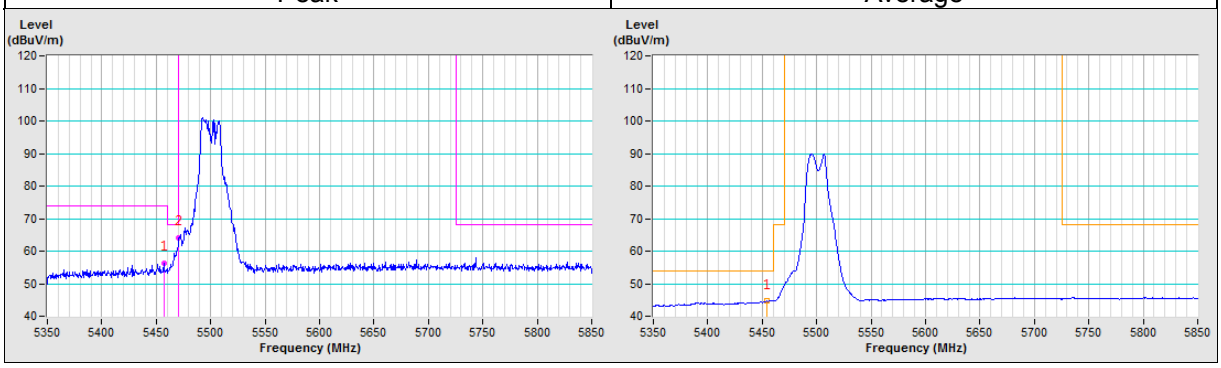
CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5456.84	56.3 PK	74.0	-17.7	1.39 V	341	51.7	4.7
PK.2	#5470.00	64.1 PK	68.2	-4.1	1.39 V	341	59.5	4.6
AV.1	5454.24	44.7 AV	54.0	-9.4	1.39 V	341	40.0	4.7

Remarks:

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

Peak	Average



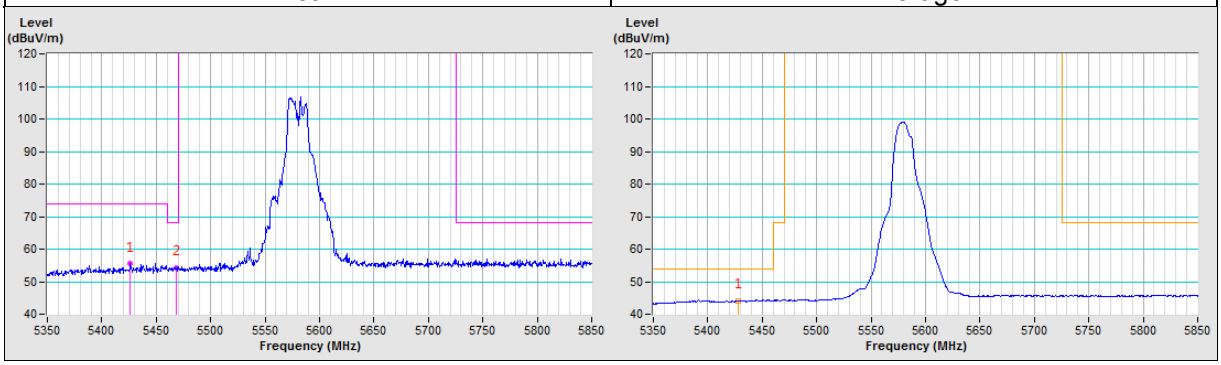
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5425.52	55.5 PK	74.0	-18.5	1.06 H	311	50.8	4.7
PK.2	#5468.69	54.4 PK	68.2	-13.9	1.06 H	311	49.7	4.6
AV.1	5427.79	44.2 AV	54.0	-9.9	1.06 H	311	39.4	4.7

Remarks:

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

Peak	Average



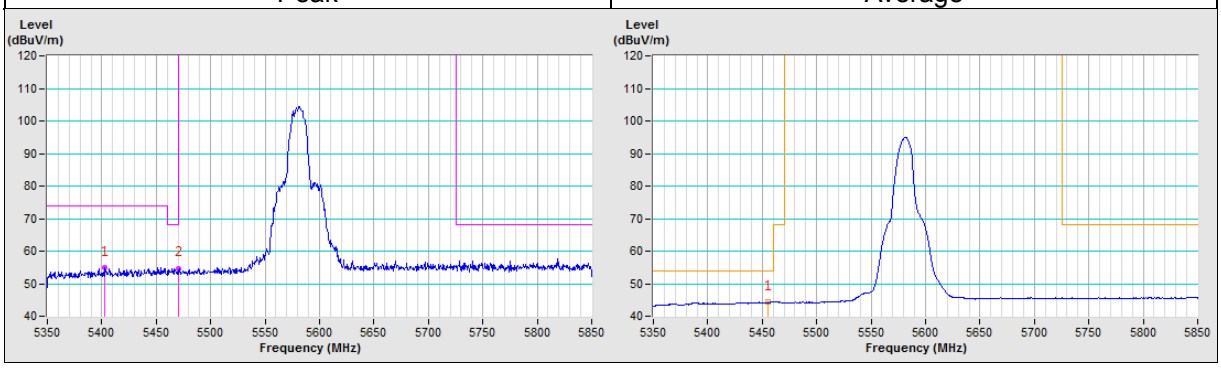
CHANNEL	TX Channel 116	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5402.91	54.8 PK	74.0	-19.2	1.52 V	339	50.1	4.7
PK.2	#5470.00	54.7 PK	68.2	-13.5	1.52 V	339	50.1	4.6
AV.1	5455.39	44.3 AV	54.0	-9.7	1.52 V	339	39.6	4.7

Remarks:

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

Peak	Average



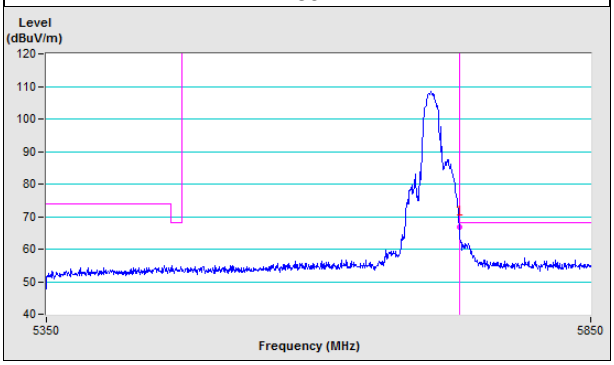
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5725.10	66.7 PK	68.2	-1.5	1.15 H	297	61.2	5.5

Remarks:

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

Peak



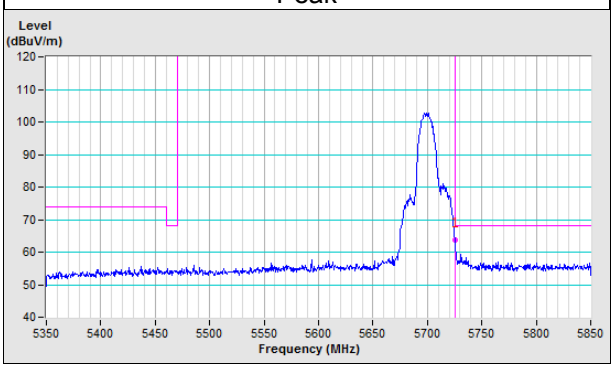
CHANNEL	TX Channel 140	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5725.34	63.8 PK	68.2	-4.4	1.44 V	338	58.4	5.5

Remarks:

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

Peak



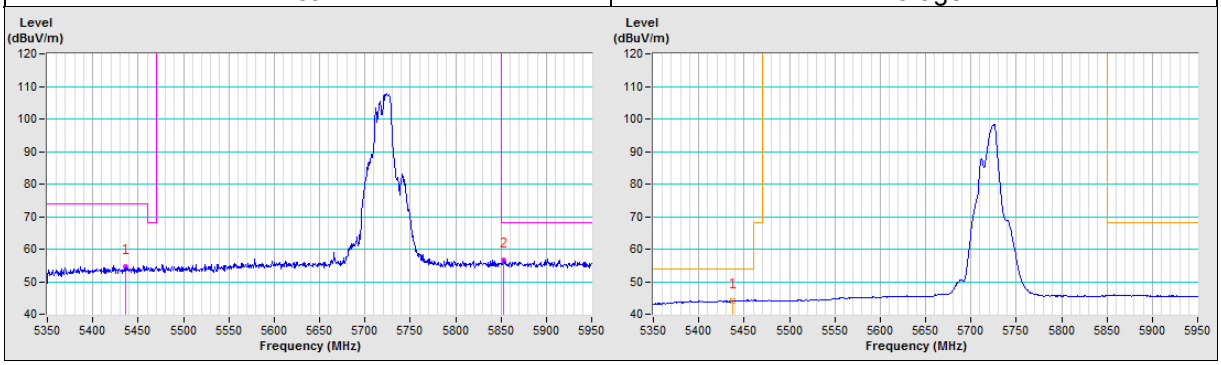
CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5436.81	54.5 PK	74.0	-19.5	1.25 H	289	49.8	4.7
PK.2	#5852.97	56.6 PK	68.2	-11.6	1.25 H	289	50.4	6.2
AV.1	5437.72	44.1 AV	54.0	-9.9	1.25 H	289	39.4	4.7

Remarks:

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

Peak	Average

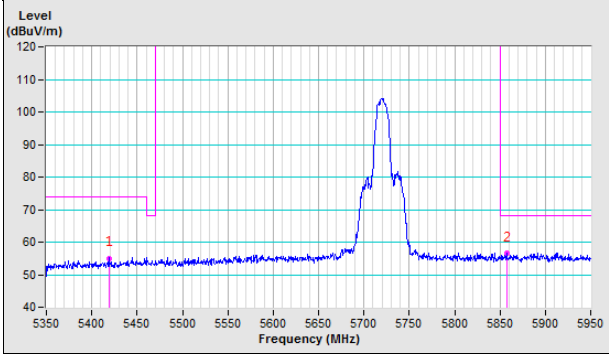
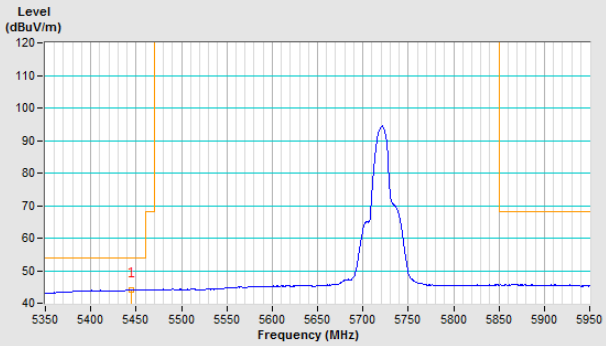


CHANNEL	TX Channel 144	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5418.93	55.1 PK	74.0	-18.9	1.39 V	346	50.4	4.7
PK.2	#5857.09	56.5 PK	68.2	-11.7	1.39 V	346	50.3	6.2
AV.1	5445.27	44.2 AV	54.0	-9.8	1.39 V	346	39.5	4.7

Remarks:

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

Peak	Average
	

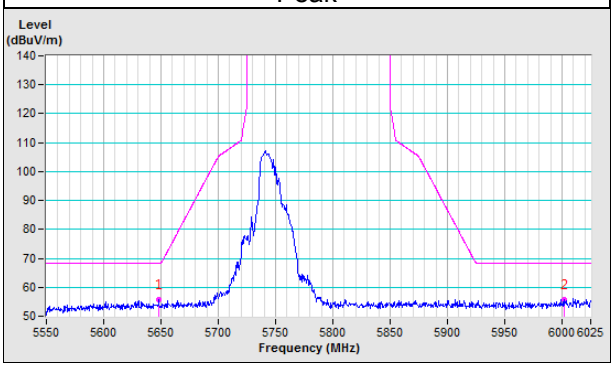
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5647.92	55.6 PK	68.2	-12.6	1.00 H	341	50.6	5.0
PK.2	#6001.52	55.8 PK	68.2	-12.4	1.00 H	341	49.4	6.4

Remarks:

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

Peak



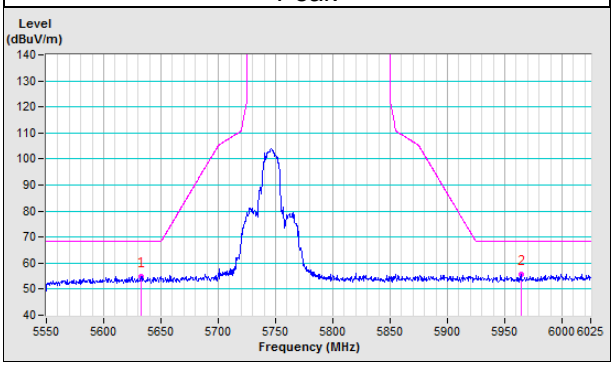
CHANNEL	TX Channel 149	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5632.54	54.9 PK	68.2	-13.3	1.48 V	353	49.9	5.0
PK.2	#5964.05	55.6 PK	68.2	-12.6	1.48 V	353	49.4	6.3

Remarks:

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

Peak



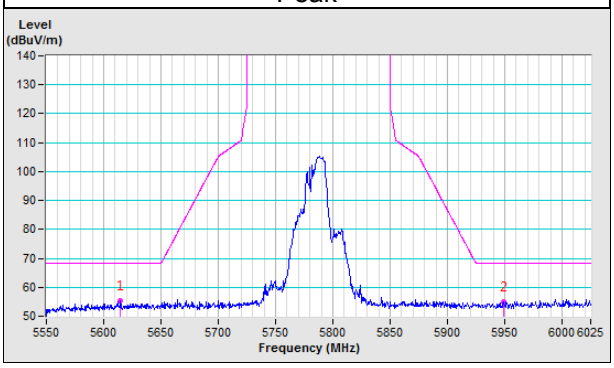
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5614.39	55.3 PK	68.2	-12.9	1.04 H	344	50.4	5.0
PK.2	#5949.11	54.9 PK	68.2	-13.3	1.04 H	344	48.7	6.3

Remarks:

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

Peak



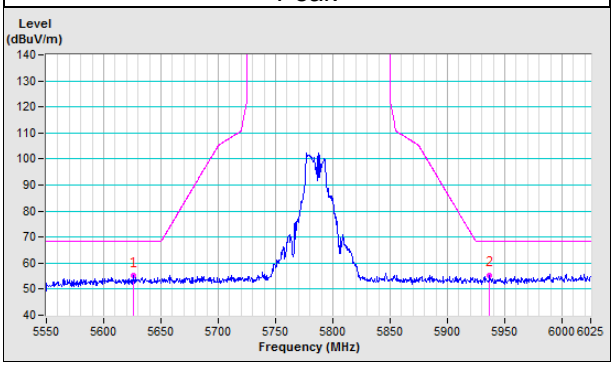
CHANNEL	TX Channel 157	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5625.55	55.1 PK	68.2	-13.1	1.43 V	351	50.1	5.0
PK.2	#5936.85	55.2 PK	68.2	-13.0	1.43 V	351	48.9	6.3

Remarks:

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

Peak



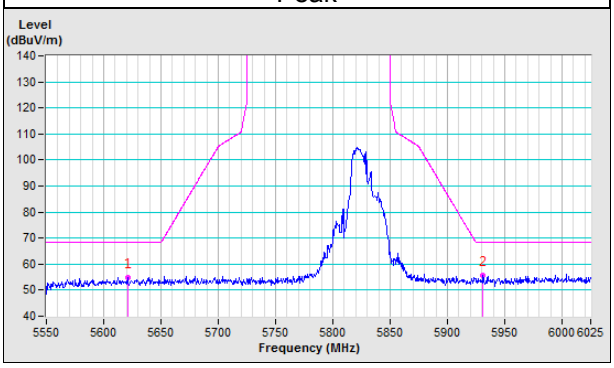
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5620.81	55.0 PK	68.2	-13.2	1.00 H	345	50.0	5.0
PK.2	#5931.23	55.6 PK	68.2	-12.6	1.00 H	345	49.3	6.3

Remarks:

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

Peak



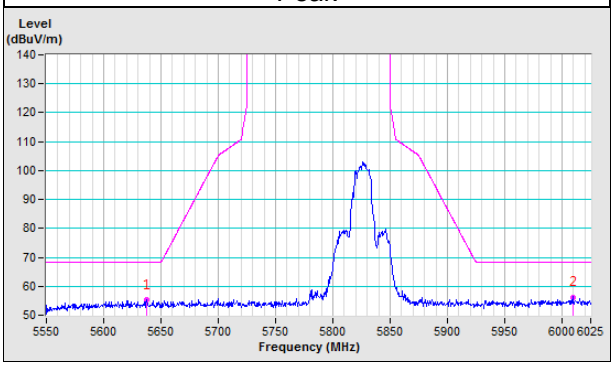
CHANNEL	TX Channel 165	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5637.85	55.5 PK	68.2	-12.7	1.52 V	352	50.5	5.0
PK.2	#6009.49	56.3 PK	68.2	-11.9	1.52 V	352	49.9	6.4

Remarks:

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

Peak



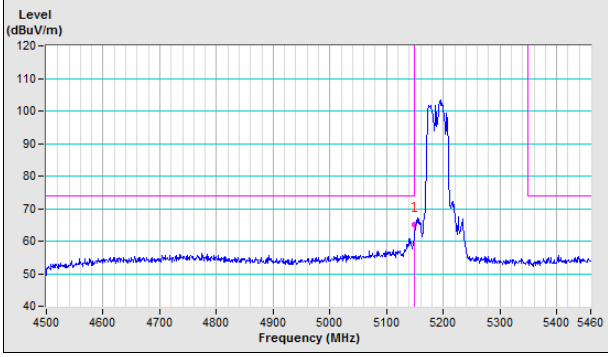
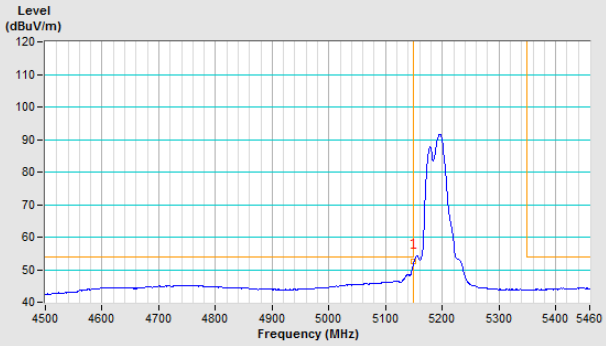
802.11n (HT40)

CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5150.00	65.2 PK	74.0	-8.8	1.03 H	324	60.0	5.3
AV.1	**5150.00**	**52.7 AV**	**54.0**	**-1.3**	**1.03 H**	**324**	**47.4**	**5.3**

Remarks:

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

Peak	Average
	

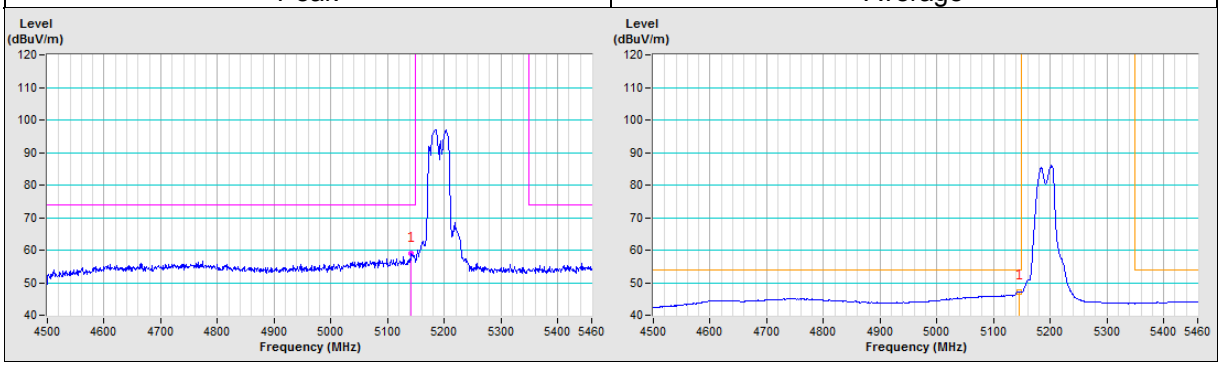
CHANNEL	TX Channel 38	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5142.07	58.9 PK	74.0	-15.2	1.45 V	348	53.6	5.3
AV.1	5144.42	47.2 AV	54.0	-6.8	1.45 V	348	41.9	5.3

Remarks:

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

Peak	Average



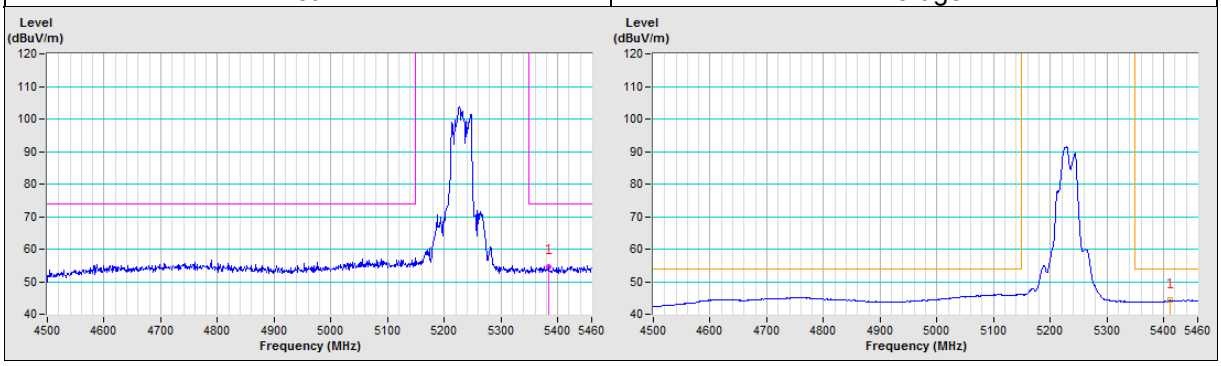
CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5384.18	54.7 PK	74.0	-19.3	1.05 H	319	50.0	4.7
AV.1	5411.54	44.3 AV	54.0	-9.7	1.05 H	319	39.6	4.7

Remarks:

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

Peak	Average

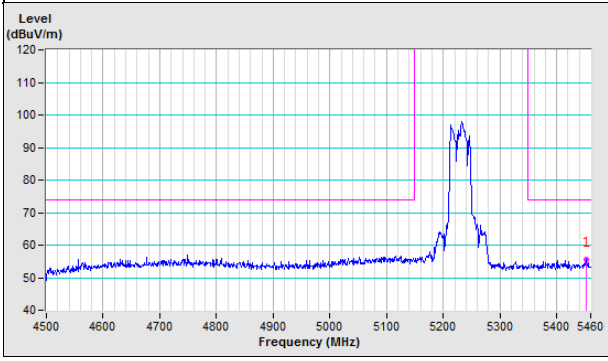
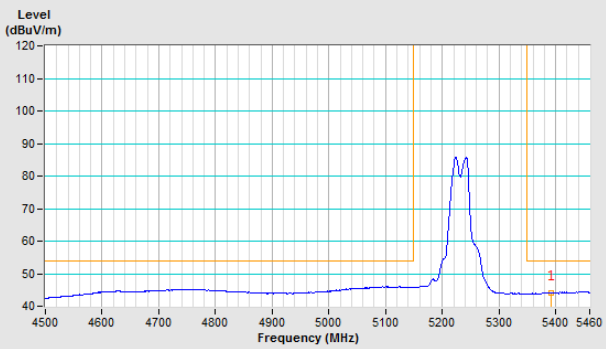


CHANNEL	TX Channel 46	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5451.62	55.7 PK	74.0	-18.3	1.46 V	351	51.0	4.7
AV.1	5391.50	44.1 AV	54.0	-9.9	1.46 V	351	39.4	4.7

Remarks:

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

Peak	Average
	

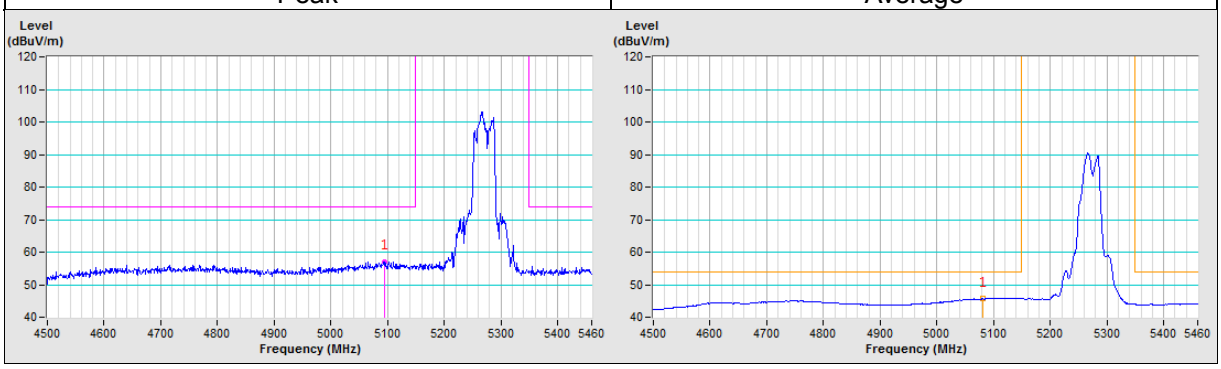
CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5094.50	57.0 PK	74.0	-17.0	1.13 H	318	51.6	5.4
AV.1	5080.85	45.7 AV	54.0	-8.3	1.13 H	318	40.3	5.3

Remarks:

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

Peak	Average



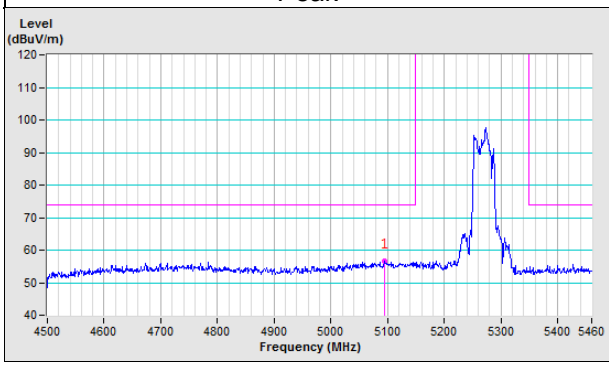
CHANNEL	TX Channel 54	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

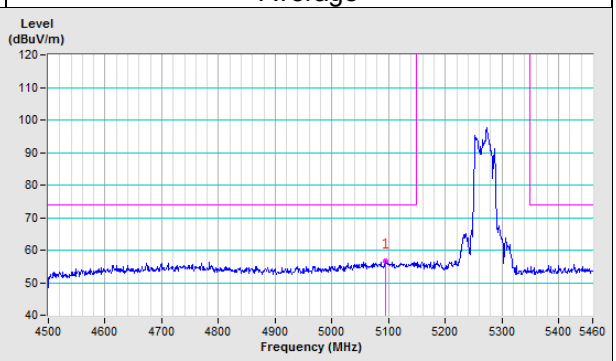
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
PK.1	5094.31	56.6 PK	74.0	-17.4	1.42 V	347	51.2	5.4
AV.1	5100.70	45.9 AV	54.0	-8.1	1.42 V	347	40.5	5.4

Remarks:

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

Peak	Average





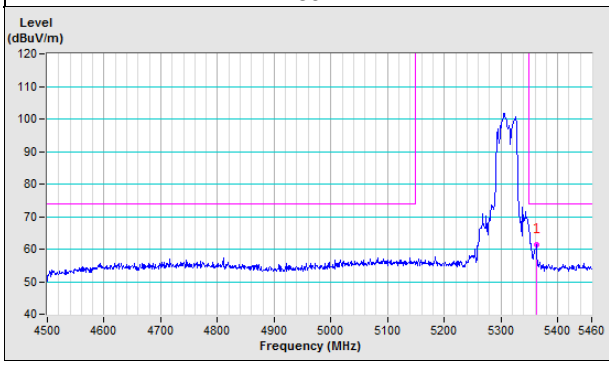
CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

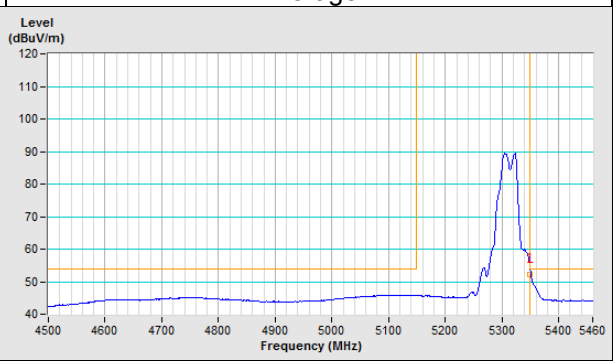
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
PK.1	5362.10	61.2 PK	74.0	-12.8	1.15 H	317	56.7	4.5
AV.1	5350.00	52.0 AV	54.0	-2.0	1.15 H	317	47.5	4.5

Remarks:

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

Peak	Average





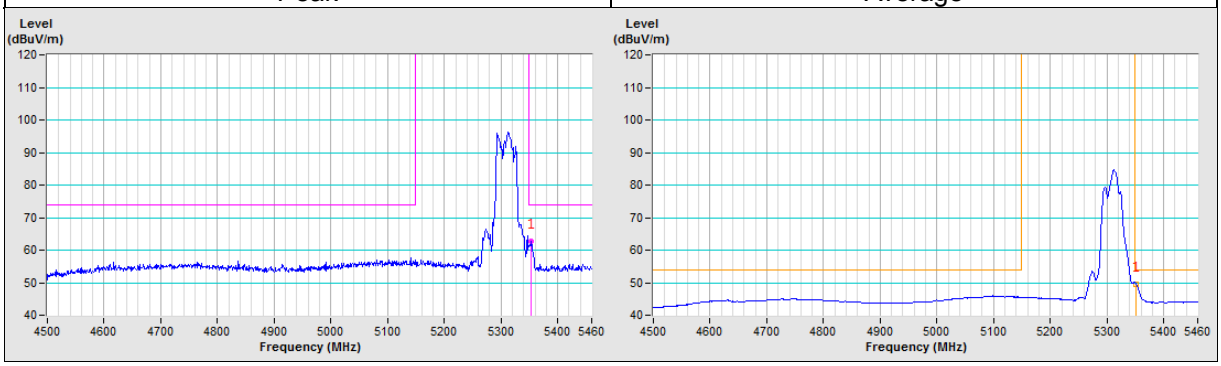
CHANNEL	TX Channel 62	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5354.04	62.8 PK	74.0	-11.2	1.48 V	345	58.3	4.5
AV.1	5351.28	49.6 AV	54.0	-4.4	1.48 V	345	45.1	4.5

Remarks:

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

Peak	Average



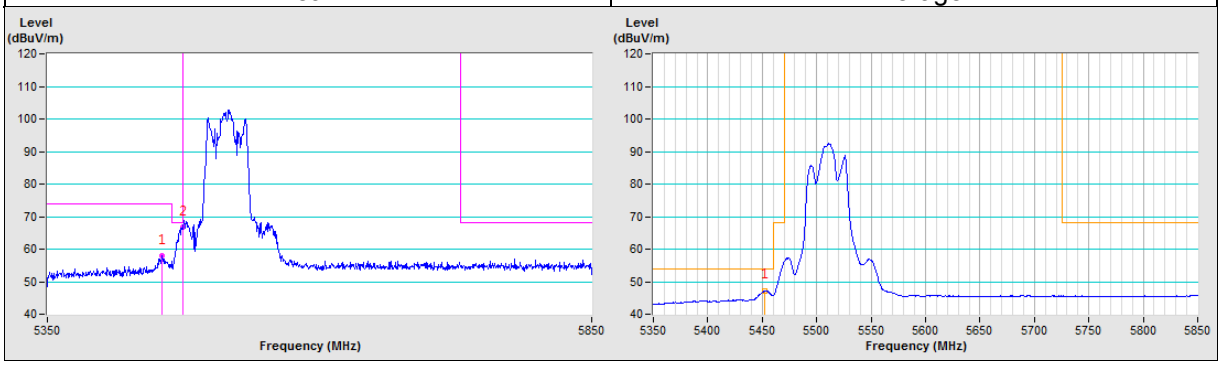
CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5451.65	57.8 PK	74.0	-16.2	1.16 H	298	53.1	4.7
PK.2	#5470.00	66.7 PK	68.2	-1.5	1.16 H	298	62.1	4.6
AV.1	5452.27	47.2 AV	54.0	-6.8	1.16 H	298	42.5	4.7

Remarks:

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

Peak	Average



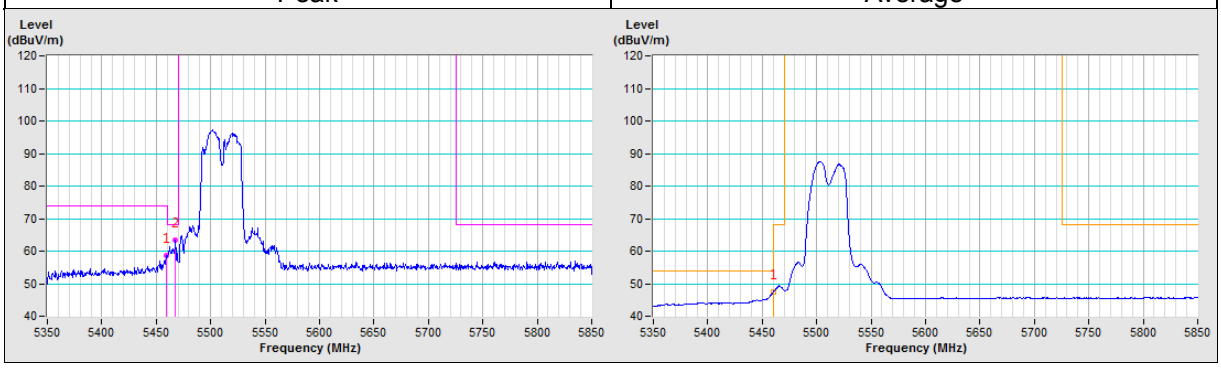
CHANNEL	TX Channel 102	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5459.40	58.8 PK	74.0	-15.2	1.44 V	333	54.2	4.7
PK.2	#5467.59	63.3 PK	68.2	-4.9	1.44 V	333	58.7	4.6
AV.1	5460.00	47.5 AV	54.0	-6.5	1.44 V	333	42.9	4.7

Remarks:

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

Peak	Average

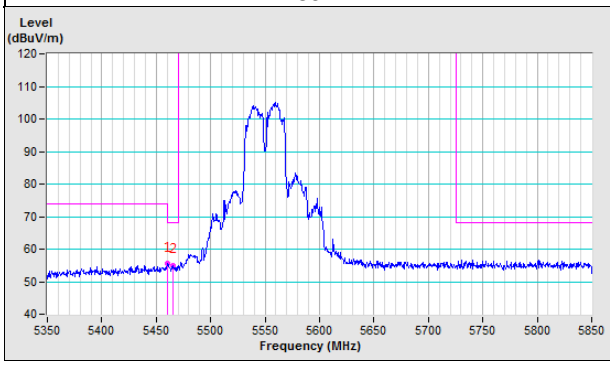
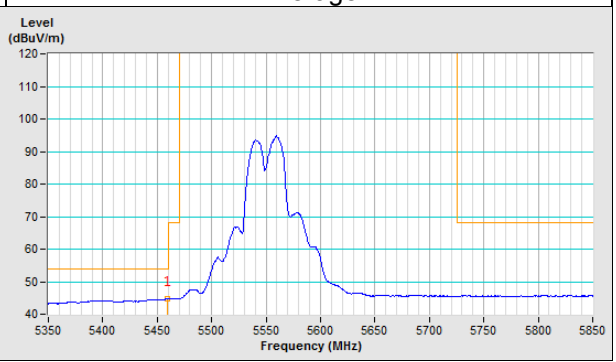


CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5460.00	55.4 PK	74.0	-18.6	1.11 H	303	50.8	4.7
PK.2	#5465.68	55.0 PK	68.2	-13.2	1.11 H	303	50.3	4.6
AV.1	5458.86	44.7 AV	54.0	-9.3	1.11 H	303	40.0	4.7

Remarks:

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

Peak	Average
	

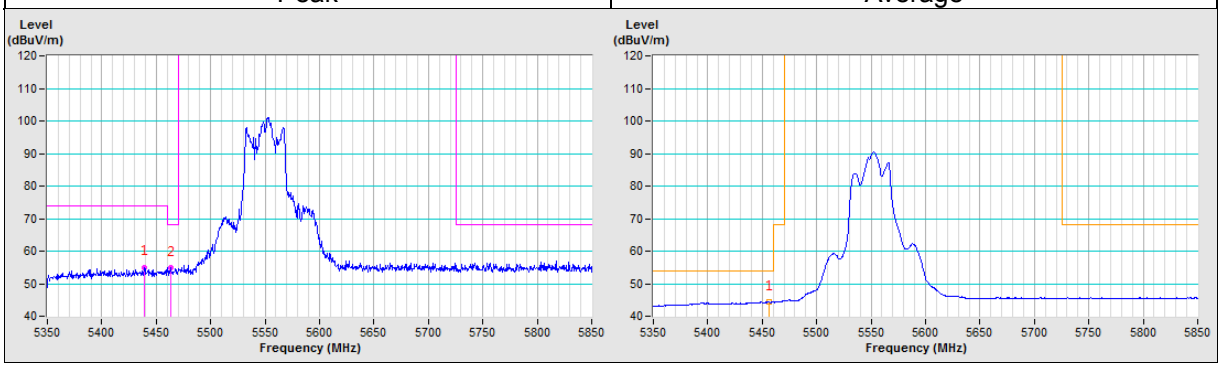
CHANNEL	TX Channel 110	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5439.23	55.0 PK	74.0	-19.0	1.56 V	355	50.3	4.7
PK.2	#5463.34	54.8 PK	68.2	-13.4	1.56 V	355	50.2	4.7
AV.1	5456.61	44.3 AV	54.0	-9.7	1.56 V	355	39.6	4.7

Remarks:

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

Peak	Average



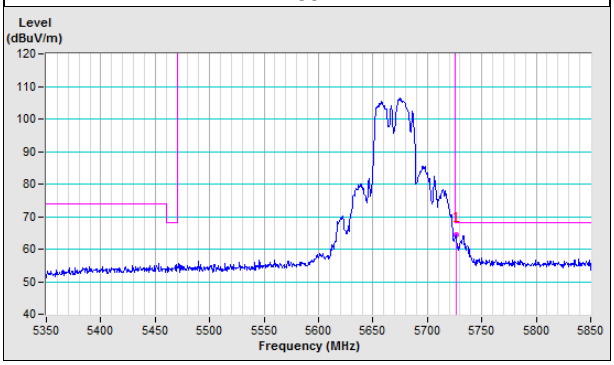
CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5726.24	64.5 PK	68.2	-3.7	1.44 H	290	59.1	5.5

Remarks:

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

Peak



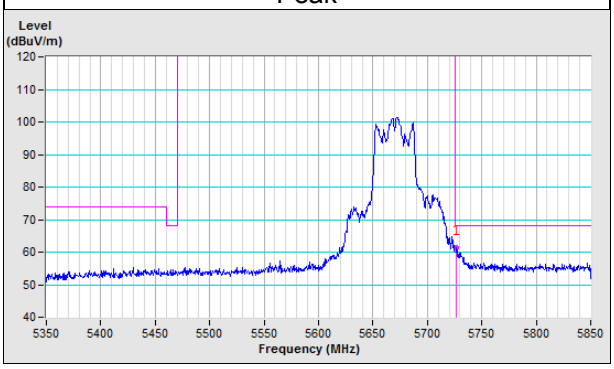
CHANNEL	TX Channel 134	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5726.61	61.4 PK	68.2	-6.8	1.56 V	332	55.9	5.5

Remarks:

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

Peak



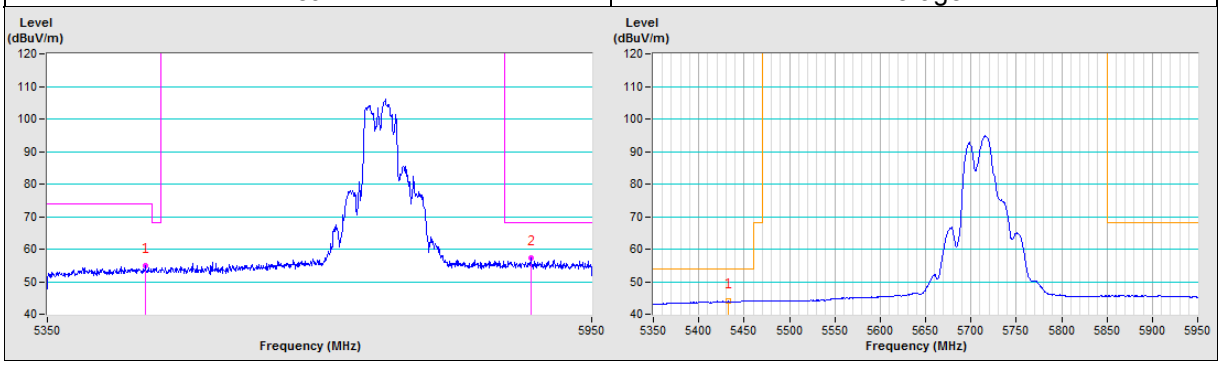
CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5453.71	54.9 PK	74.0	-19.1	1.31 H	298	50.2	4.7
PK.2	#5879.69	57.4 PK	68.2	-10.8	1.31 H	298	51.1	6.3
AV.1	5433.01	44.0 AV	54.0	-10.0	1.31 H	298	39.3	4.7

Remarks:

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

Peak	Average



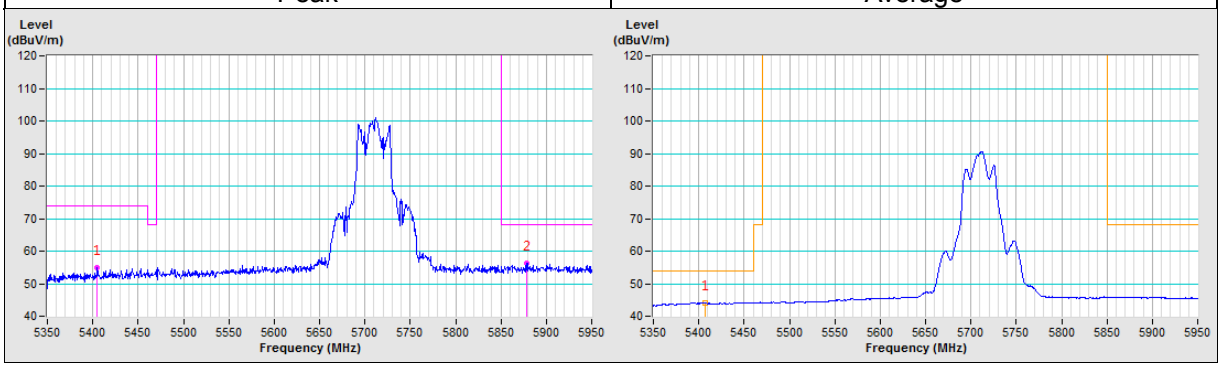
CHANNEL	TX Channel 142	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5404.65	55.1 PK	74.0	-18.9	1.38 V	343	50.4	4.7
PK.2	#5878.06	56.4 PK	68.2	-11.9	1.38 V	343	50.1	6.3
AV.1	5406.73	44.1 AV	54.0	-9.9	1.38 V	343	39.4	4.7

Remarks:

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

Peak	Average



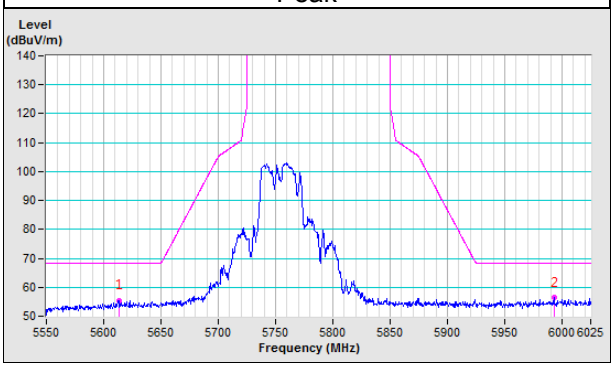
CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5613.67	55.5 PK	68.2	-12.7	1.20 H	341	50.6	5.0
PK.2	#5992.82	56.6 PK	68.2	-11.7	1.20 H	341	50.2	6.4

Remarks:

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

Peak



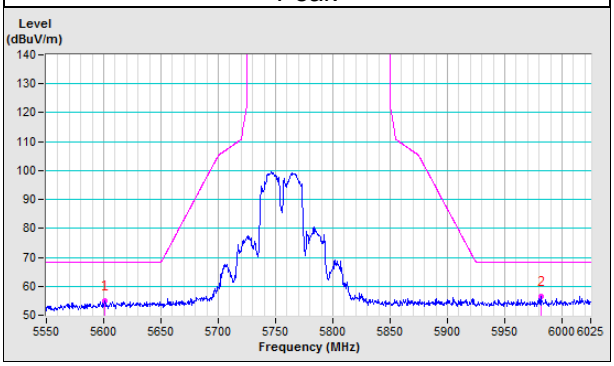
CHANNEL	TX Channel 151	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5600.96	55.1 PK	68.2	-13.1	1.38 V	359	50.2	4.9
PK.2	#5981.37	56.4 PK	68.2	-11.8	1.38 V	359	50.0	6.4

Remarks:

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

Peak



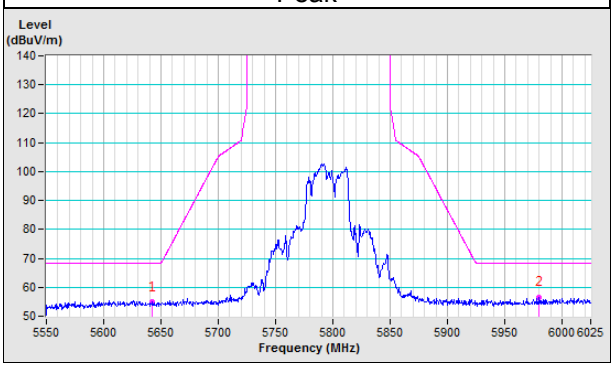
CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5642.38	55.0 PK	68.2	-13.2	1.15 H	347	50.0	5.0
PK.2	#5980.16	56.7 PK	68.2	-11.5	1.15 H	347	50.3	6.4

Remarks:

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

Peak



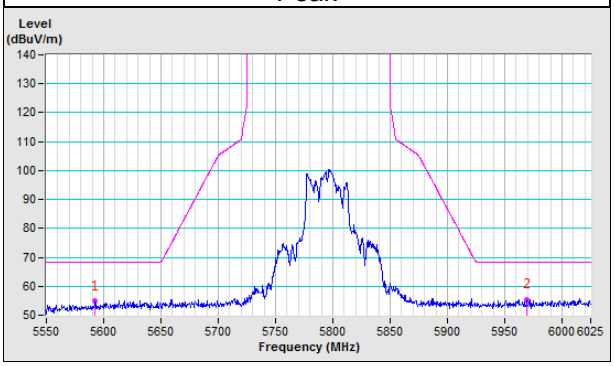
CHANNEL	TX Channel 159	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5592.37	55.0 PK	68.2	-13.2	1.41 V	355	50.1	4.9
PK.2	#5969.09	55.5 PK	68.2	-12.7	1.41 V	355	49.2	6.3

Remarks:

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

Peak



802.11ac (VHT80)

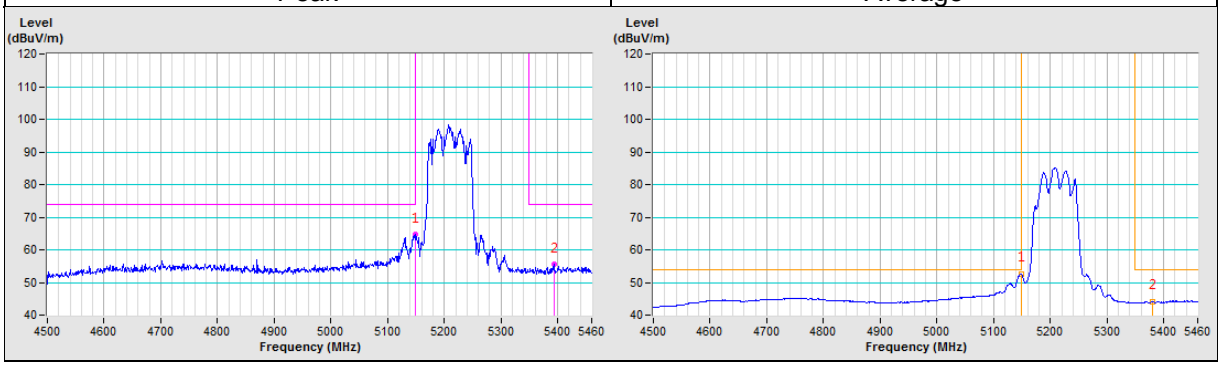
CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5148.22	64.6 PK	74.0	-9.4	1.06 H	330	59.4	5.3
PK.2	5392.99	55.5 PK	74.0	-18.5	1.06 H	330	50.8	4.7
AV.1	5148.24	52.6 AV	54.0	-1.4	1.06 H	330	47.3	5.3
AV.2	5381.21	44.1 AV	54.0	-9.9	1.06 H	330	39.4	4.6

Remarks:

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

Peak	Average



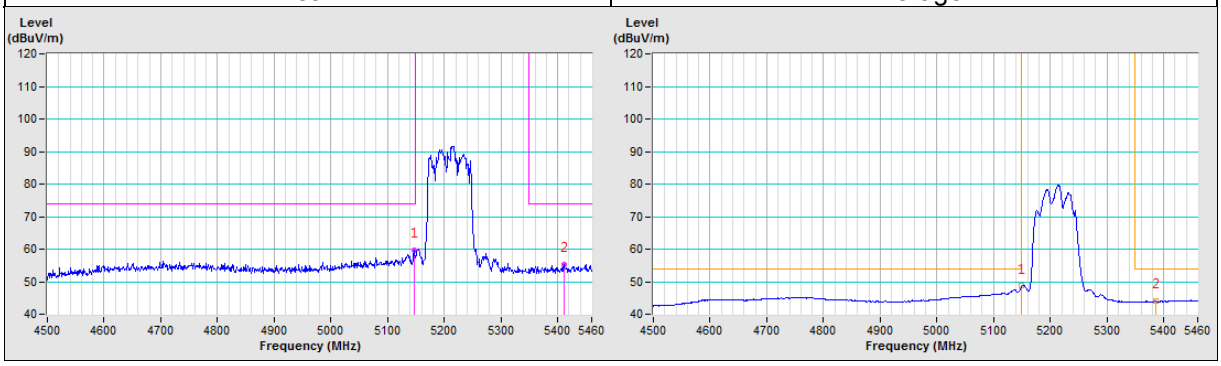
CHANNEL	TX Channel 42	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5146.44	59.7 PK	74.0	-14.3	1.41 V	358	54.4	5.3
PK.2	5411.69	55.2 PK	74.0	-18.8	1.41 V	358	50.5	4.7
AV.1	5150.00	48.7 AV	54.0	-5.3	1.41 V	358	43.4	5.3
AV.2	5385.41	44.0 AV	54.0	-10.0	1.41 V	358	39.3	4.7

Remarks:

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

Peak	Average



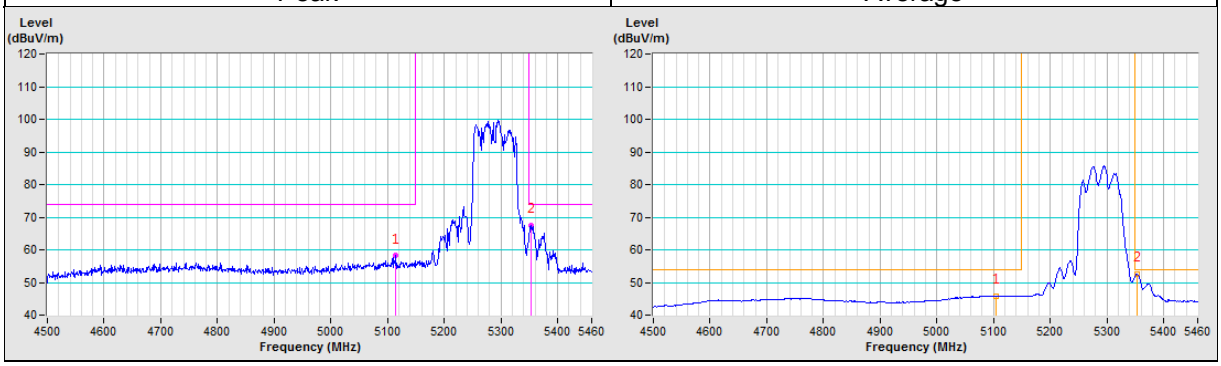
CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5114.62	58.2 PK	74.0	-15.8	1.28 H	314	52.8	5.4
PK.2	5352.86	67.5 PK	74.0	-6.5	1.00 H	314	63.0	4.5
AV.1	5104.63	45.9 AV	54.0	-8.1	1.28 H	314	40.5	5.4
AV.2	5352.38	52.5 AV	54.0	-1.5	1.28 H	314	48.0	4.5

Remarks:

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

Peak	Average



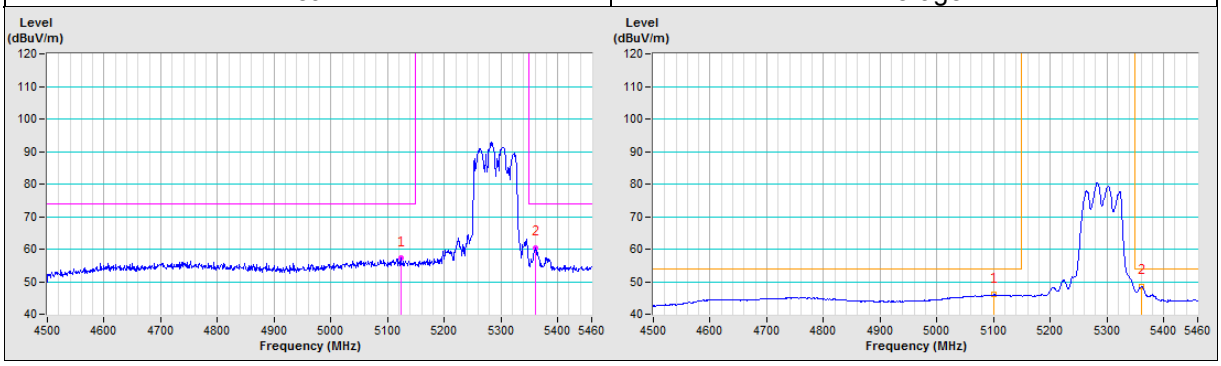
CHANNEL	TX Channel 58	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	4500MHz ~ 5460MHz		

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)
PK.1	5123.88	57.1 PK	74.0	-16.9	1.52 V	335	51.8	5.4
PK.2	5361.72	60.3 PK	74.0	-13.7	1.52 V	335	55.8	4.5
AV.1	5101.32	46.0 AV	54.0	-8.0	1.52 V	335	40.5	5.4
AV.2	5361.72	48.4 AV	54.0	-5.6	1.52 V	335	43.9	4.5

Remarks:

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

Peak	Average



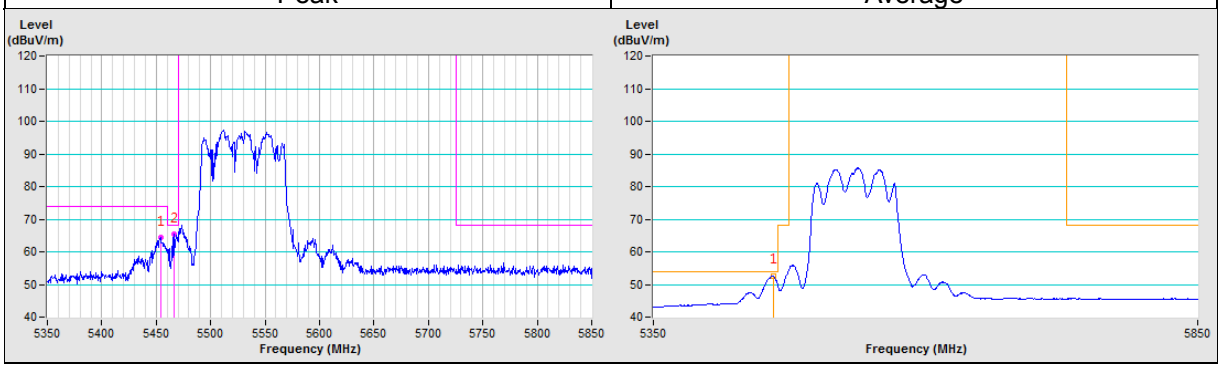
CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5453.80	64.3 PK	74.0	-9.7	1.10 H	308	59.6	4.7
PK.2	#5466.73	65.3 PK	68.2	-2.9	1.10 H	308	60.7	4.6
AV.1	5456.52	52.5 AV	54.0	-1.5	1.10 H	308	47.8	4.7

Remarks:

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

Peak	Average

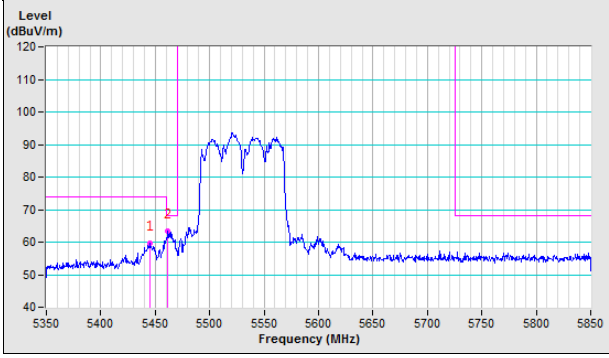
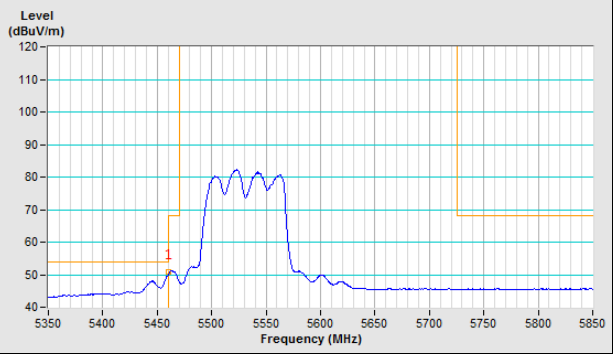


CHANNEL	TX Channel 106	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	5445.39	59.7 PK	74.0	-14.3	1.55 V	348	55.0	4.7
PK.2	#5461.26	63.5 PK	68.2	-4.7	1.55 V	348	58.8	4.7
AV.1	5460.00	50.8 AV	54.0	-3.2	1.55 V	348	46.1	4.7

Remarks:

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

Peak	Average
	

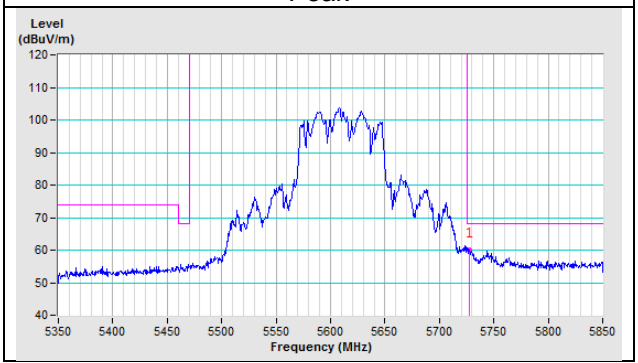
CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5727.50	60.0 PK	68.2	-8.2	1.28 H	296	54.5	5.5

Remarks:

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

Peak



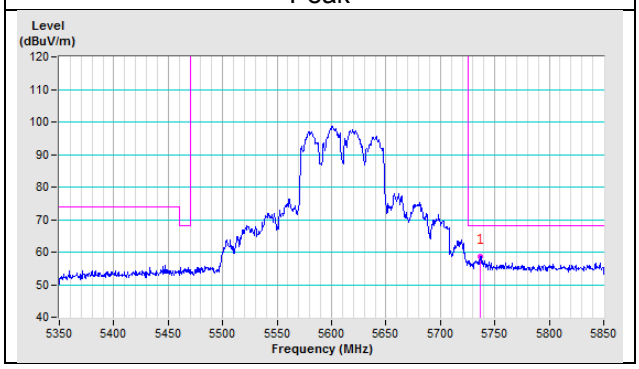
CHANNEL	TX Channel 122	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5850MHz		

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)
PK.1	#5736.93	58.7 PK	68.2	-9.5	1.38 V	334	53.2	5.6

Remarks:

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

Peak



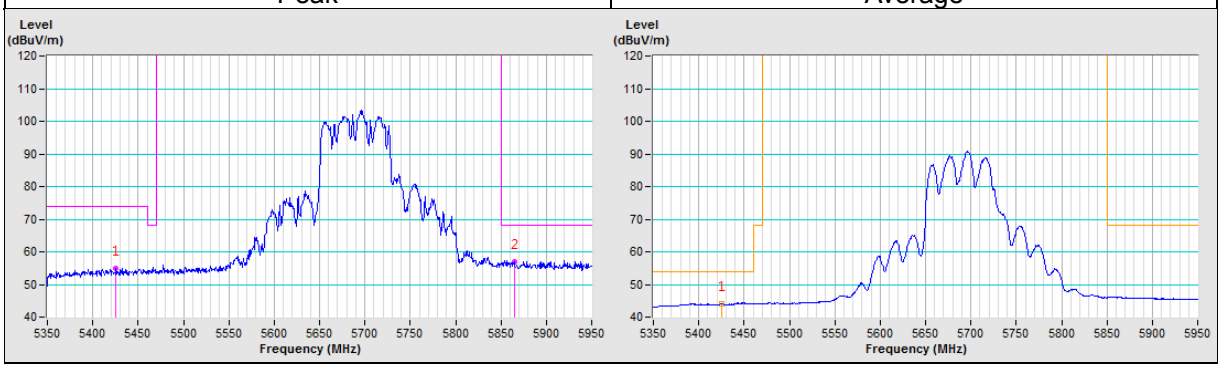
CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5425.61	55.0 PK	74.0	-19.0	1.18 H	297	50.3	4.7
PK.2	#5865.31	57.0 PK	68.2	-11.2	1.18 H	297	50.8	6.3
AV.1	5425.72	44.0 AV	54.0	-10.0	1.18 H	297	39.3	4.7

Remarks:

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

Peak	Average



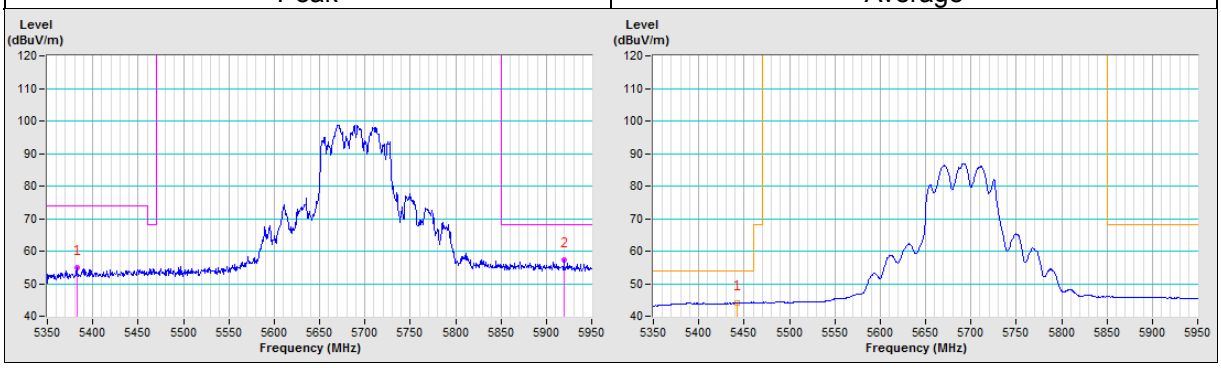
CHANNEL	TX Channel 138	DETECTOR FUNCTION	Peak (PK) Average (AV)
FREQUENCY RANGE	5350MHz ~ 5950MHz		

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)
PK.1	5382.85	55.1 PK	74.0	-18.9	1.50 V	353	50.4	4.7
PK.2	#5919.51	57.3 PK	68.2	-10.9	1.50 V	353	51.0	6.3
AV.1	5442.20	44.1 AV	54.0	-9.9	1.50 V	353	39.4	4.7

Remarks:

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

Peak	Average



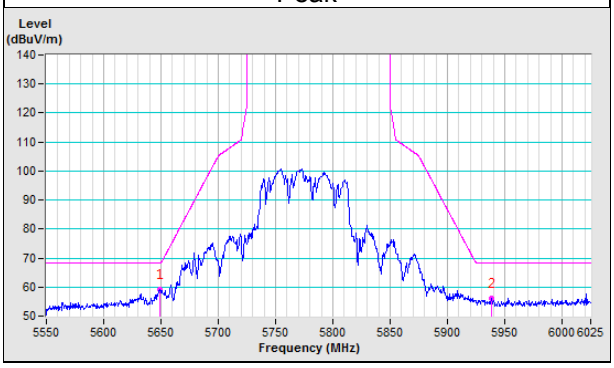
CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5649.18	59.3 PK	68.2	-8.9	1.21 H	291	54.2	5.0
PK.2	#5938.72	56.2 PK	68.2	-12.0	1.21 H	291	49.9	6.3

Remarks:

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

Peak



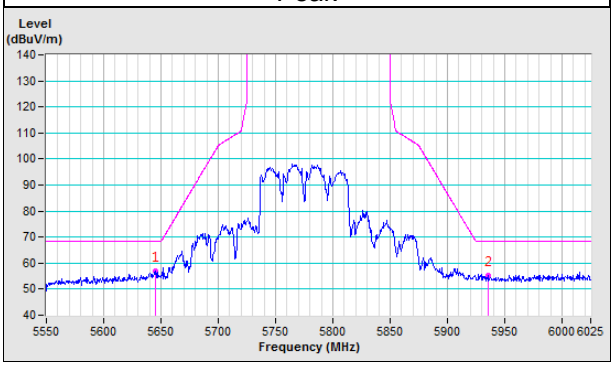
CHANNEL	TX Channel 155	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	5550MHz ~ 6025MHz		

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)
PK.1	#5644.99	56.9 PK	68.2	-11.3	1.36 V	309	51.9	5.0
PK.2	#5935.18	55.2 PK	68.2	-13.0	1.36 V	309	48.9	6.3

Remarks:

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

Peak



4.1.9 Test Results for below 1GHz

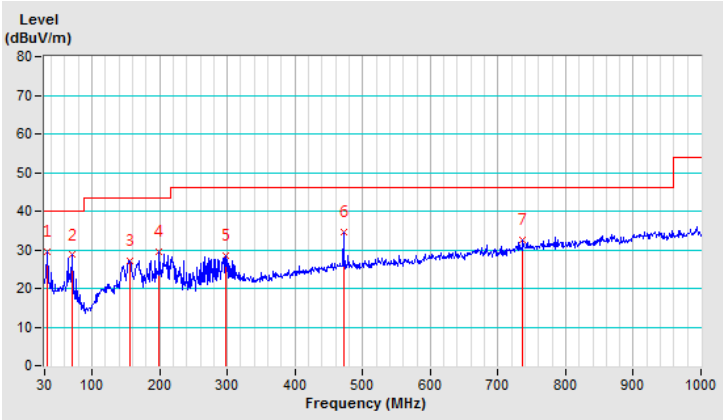
802.11a

CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	33.83	29.4 PK	40.0	-10.6	2.51 H	86	38.0	-8.6
2	70.64	28.7 PK	40.0	-11.3	2.64 H	166	37.7	-9.0
3	155.66	27.3 PK	43.5	-16.2	2.05 H	198	34.1	-6.8
4	199.70	29.4 PK	43.5	-14.1	1.88 H	154	39.2	-9.8
5	298.01	28.6 PK	46.0	-17.4	1.48 H	146	33.9	-5.3
6	472.13	34.6 PK	46.0	-11.4	1.66 H	81	36.3	-1.7
7	736.89	32.6 PK	46.0	-13.4	1.00 H	94	29.4	3.2

Remarks:

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

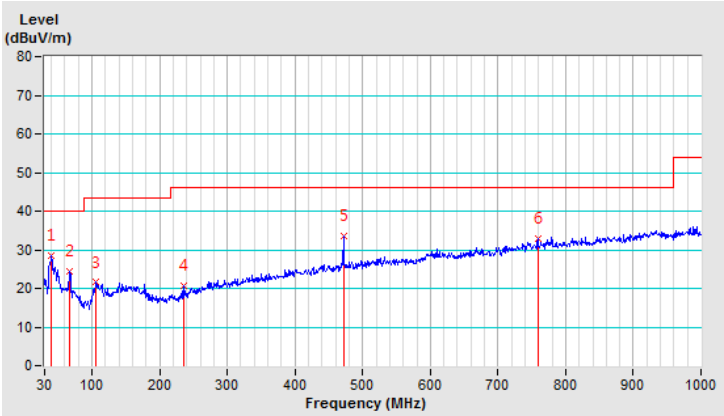


CHANNEL	TX Channel 100	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	9kHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	40.38	28.6 PK	40.0	-11.5	1.52 V	51	36.3	-7.7
2	67.25	24.4 PK	40.0	-15.6	1.03 V	86	32.6	-8.2
3	105.95	21.6 PK	43.5	-21.9	1.45 V	17	32.6	-11.0
4	236.03	20.6 PK	46.0	-25.4	2.33 V	336	29.0	-8.4
5	472.13	33.5 PK	46.0	-12.5	1.94 V	133	35.2	-1.7
6	759.10	32.9 PK	46.0	-13.1	1.80 V	205	29.4	3.5

Remarks:

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



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	ESCS30	100291	Sep. 03, 2018	Sep. 02, 2019
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 26, 2018	Feb. 25, 2019
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

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

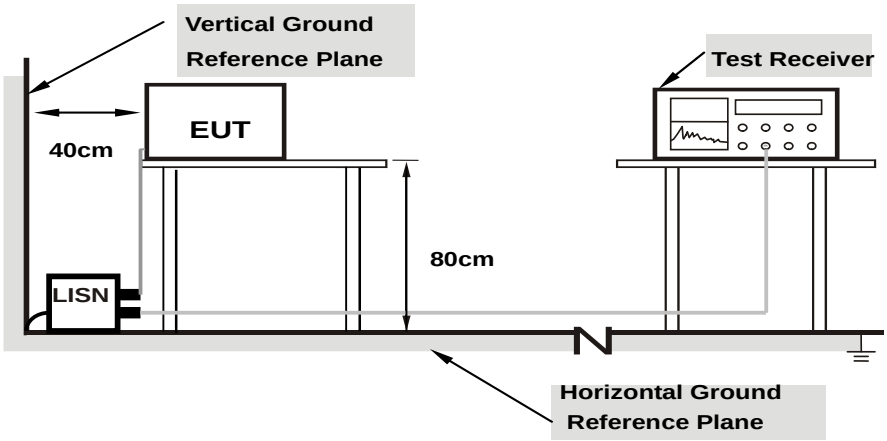
c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

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

Worst-case data:

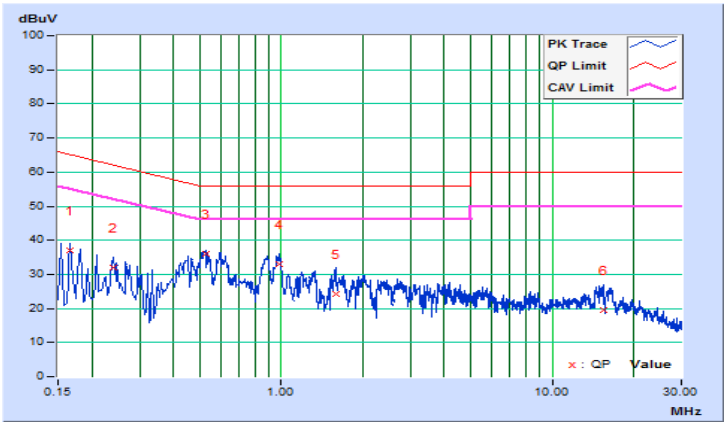
802.11a

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

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	0.16569	9.73	27.23	12.03	36.96	21.76	65.17	55.17	-28.21	-33.41
2	0.23961	9.73	22.39	10.36	32.12	20.09	62.11	52.11	-29.99	-32.02
3	**0.52536**	**9.74**	**26.44**	**18.12**	**36.18**	**27.86**	**56.00**	**46.00**	**-19.82**	**-18.14**
4	0.98283	9.68	23.41	15.81	33.09	25.49	56.00	46.00	-22.91	-20.51
5	1.58497	9.72	14.56	7.58	24.28	17.30	56.00	46.00	-31.72	-28.70
6	15.46156	9.92	9.60	2.63	19.52	12.55	60.00	50.00	-40.48	-37.45

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.

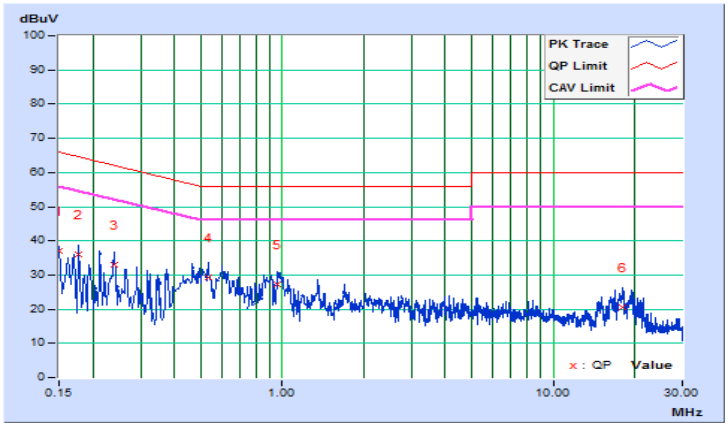


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)

No	Freq.	Corr. Factor	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.72	27.22	9.21	36.94	18.93	66.00	56.00	-29.06	-37.07
2	0.17744	9.73	26.43	9.88	36.16	19.61	64.60	54.60	-28.44	-34.99
3	0.23993	9.73	23.20	8.06	32.93	17.79	62.10	52.10	-29.17	-34.31
4	0.53318	9.74	19.55	11.24	29.29	20.98	56.00	46.00	-26.71	-25.02
5	0.96328	9.72	17.54	9.95	27.26	19.67	56.00	46.00	-28.74	-26.33
6	17.96005	10.06	10.36	2.46	20.42	12.52	60.00	50.00	-39.58	-37.48

Remarks:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

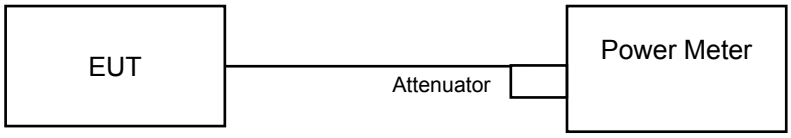
Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT};
Array Gain = 5 log(N_{ANT}/N_{SS}) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

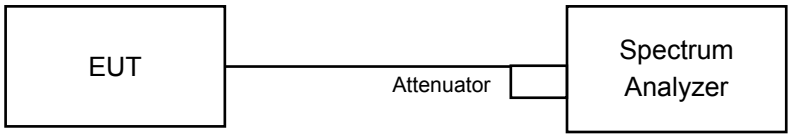
For power measurements on all other devices: Array Gain = 10 log(N_{ANT}/N_{SS}) dB.

4.3.2 Test Setup

For Power Output



For 26dB Bandwidth



4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
USB Wideband Power Meter KEYSIGHT	U2021XA	MY55050005/MY55190004/MY55190007/MY55210005	Jul. 17, 2018	Jul. 16, 2019
SPECTRUM ANALYZER R&S	FSP40	100041	Dec 12, 2017	Dec 11, 2018

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

4.3.4 Test Procedure

For Average Power Measurement

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

For 26dB Bandwidth

a. Set RBW = approximately 1% of the emission bandwidth.

b. Set the VBW > RBW.

c. Detector = Peak.

d. Trace mode = max hold.

e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

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

4.3.7 Test Result

Power Output:

Ant. 0 (SISO)

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	53.703	17.30	24.00	Pass
40	5200	52.966	17.24	24.00	Pass
48	5240	53.703	17.30	24.00	Pass
52	5260	54.576	17.37	24.00	Pass
60	5300	53.827	17.31	24.00	Pass
64	5320	53.580	17.29	24.00	Pass
100	5500	53.827	17.31	24.00	Pass
116	5580	53.088	17.25	24.00	Pass
140	5700	53.951	17.32	24.00	Pass
144	5720 (For U-NII-2C)	28.840	14.60	23.32	Pass
144	5720 (For U-NII-3)	6.823	8.34	30.00	Pass
149	5745	53.703	17.30	30.00	Pass
157	5785	55.719	17.46	30.00	Pass
165	5825	52.845	17.23	30.00	Pass

Note:

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

1. 11dBm + 10log (24.37) = 24.87 dBm > 24dBm
2. 11dBm + 10log (24.50) = 24.89 dBm > 24dBm
3. 11dBm + 10log (24.21) = 24.84 dBm > 24dBm
4. 11dBm + 10log (24.44) = 24.88 dBm > 24dBm
5. 11dBm + 10log (24.44) = 24.88 dBm > 24dBm
6. 11dBm + 10log (24.30) = 24.86 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5707.94) = 23.32 dBm < 24dBm

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	54.200	17.34	24.00	Pass
40	5200	53.951	17.32	24.00	Pass
48	5240	54.702	17.38	24.00	Pass
52	5260	55.208	17.42	24.00	Pass
60	5300	55.208	17.42	24.00	Pass
64	5320	54.954	17.40	24.00	Pass
100	5500	54.954	17.40	24.00	Pass
116	5580	55.081	17.41	24.00	Pass
140	5700	54.200	17.34	24.00	Pass
144	5720 (For U-NII-2C)	30.549	14.85	23.46	Pass
144	5720 (For U-NII-3)	7.295	8.63	30.00	Pass
149	5745	53.951	17.32	30.00	Pass
157	5785	55.976	17.48	30.00	Pass
165	5825	54.075	17.33	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log (25.26) = 25.02 dBm > 24dBm
2. 11dBm + 10log (24.51) = 24.89 dBm > 24dBm
3. 11dBm + 10log (25.78) = 25.11 dBm > 24dBm
4. 11dBm + 10log (24.96) = 24.97 dBm > 24dBm
5. 11dBm + 10log (25.98) = 25.15 dBm > 24dBm
6. 11dBm + 10log (25.55) = 25.07 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5707.36) = 23.46 dBm < 24dBm

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	53.951	17.32	24.00	Pass
46	5230	53.951	17.32	24.00	Pass
54	5270	54.828	17.39	24.00	Pass
62	5310	54.450	17.36	24.00	Pass
102	5510	53.580	17.29	24.00	Pass
110	5550	54.075	17.33	24.00	Pass
134	5670	53.333	17.27	24.00	Pass
142	5710 (For U-NII-2C)	31.261	14.95	24.00	Pass
142	5710 (For U-NII-3)	2.415	3.83	30.00	Pass
151	5755	54.576	17.37	30.00	Pass
159	5795	53.827	17.31	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log (42.36) = 27.27 dBm > 24dBm
2. 11dBm + 10log (42.43) = 27.28 dBm > 24dBm
3. 11dBm + 10log (42.35) = 27.27 dBm > 24dBm
4. 11dBm + 10log (42.48) = 27.28 dBm > 24dBm
5. 11dBm + 10log (42.35) = 27.27 dBm > 24dBm
6. 11dBm + 10log (5725.00 - 5688.91) = 26.57 dBm > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	54.450	17.36	24.00	Pass
58	5290	52.966	17.24	24.00	Pass
106	5530	54.325	17.35	24.00	Pass
122	5610	52.845	17.23	24.00	Pass
138	5690 (For U-NII-2C)	23.496	13.71	24.00	Pass
138	5690 (For U-NII-3)	1.247	0.96	30.00	Pass
155	5775	52.723	17.22	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log (84.43) = 30.26 dBm > 24dBm
2. 11dBm + 10log (83.92) = 30.24 dBm > 24dBm
3. 11dBm + 10log (84.59) = 30.27 dBm > 24dBm
4. 11dBm + 10log (5725.00 - 5641.12) = 30.24 dBm > 24dBm

Ant. 1 (SISO)

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	55.335	17.43	24.00	Pass
40	5200	53.456	17.28	24.00	Pass
48	5240	53.703	17.30	24.00	Pass
52	5260	53.580	17.29	24.00	Pass
60	5300	52.966	17.24	24.00	Pass
64	5320	53.333	17.27	24.00	Pass
100	5500	55.976	17.48	24.00	Pass
116	5580	53.088	17.25	24.00	Pass
140	5700	52.481	17.20	24.00	Pass
144	5720 (For U-NII-2C)	27.669	14.42	23.28	Pass
144	5720 (For U-NII-3)	6.252	7.96	30.00	Pass
149	5745	52.000	17.16	30.00	Pass
157	5785	52.481	17.20	30.00	Pass
165	5825	52.845	17.23	30.00	Pass

Note:

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

1. 11dBm + 10log (25.53) = 25.07 dBm > 24dBm
2. 11dBm + 10log (26.11) = 25.17 dBm > 24dBm
3. 11dBm + 10log (24.66) = 24.92 dBm > 24dBm
4. 11dBm + 10log (25.85) = 25.12 dBm > 24dBm
5. 11dBm + 10log (26.93) = 25.30 dBm > 24dBm
6. 11dBm + 10log (24.70) = 24.93 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5708.07) = 23.28 dBm < 24dBm

802.11ac (VHT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
36	5180	54.954	17.40	24.00	Pass
40	5200	54.075	17.33	24.00	Pass
48	5240	53.951	17.32	24.00	Pass
52	5260	53.456	17.28	24.00	Pass
60	5300	53.827	17.31	24.00	Pass
64	5320	53.211	17.26	24.00	Pass
100	5500	56.105	17.49	24.00	Pass
116	5580	53.333	17.27	24.00	Pass
140	5700	53.088	17.25	24.00	Pass
144	5720 (For U-NII-2C)	33.651	15.27	23.64	Pass
144	5720 (For U-NII-3)	8.630	9.36	30.00	Pass
149	5745	52.845	17.23	30.00	Pass
157	5785	53.456	17.28	30.00	Pass
165	5825	53.456	17.28	30.00	Pass

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

1. 11dBm + 10log (28.23) = 25.51 dBm > 24dBm
2. 11dBm + 10log (26.50) = 25.23 dBm > 24dBm
3. 11dBm + 10log (26.80) = 25.28 dBm > 24dBm
4. 11dBm + 10log (28.07) = 25.48 dBm > 24dBm
5. 11dBm + 10log (28.03) = 25.48 dBm > 24dBm
6. 11dBm + 10log (27.87) = 25.45 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5706.63) = 23.64 dBm < 24dBm

802.11ac (VHT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
38	5190	52.602	17.21	24.00	Pass
46	5230	53.580	17.29	24.00	Pass
54	5270	53.951	17.32	24.00	Pass
62	5310	55.976	17.48	24.00	Pass
102	5510	53.211	17.26	24.00	Pass
110	5550	52.240	17.18	24.00	Pass
134	5670	52.240	17.18	24.00	Pass
142	5710 (For U-NII-2C)	34.674	15.40	24.00	Pass
142	5710 (For U-NII-3)	2.158	3.34	30.00	Pass
151	5755	52.845	17.23	30.00	Pass
159	5795	52.966	17.24	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log (49.89) = 27.98 dBm > 24dBm
2. 11dBm + 10log (45.03) = 27.54 dBm > 24dBm
3. 11dBm + 10log (41.98) = 27.23 dBm > 24dBm
4. 11dBm + 10log (49.86) = 27.98 dBm > 24dBm
5. 11dBm + 10log (42.39) = 27.27 dBm > 24dBm
6. 11dBm + 10log (5725.00 - 5688.76) = 26.59 dBm > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (mW)	Maximum Conducted Power (dBm)	Power Limit (dBm)	Pass / Fail
42	5210	52.481	17.20	24.00	Pass
58	5290	52.602	17.21	24.00	Pass
106	5530	54.200	17.34	24.00	Pass
122	5610	52.360	17.19	24.00	Pass
138	5690 (For U-NII-2C)	24.378	13.87	24.00	Pass
138	5690 (For U-NII-3)	0.624	-2.05	30.00	Pass
155	5775	52.360	17.19	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
1. 11dBm + 10log (100.56) = 31.02 dBm > 24dBm
2. 11dBm + 10log (95.76) = 30.81 dBm > 24dBm
3. 11dBm + 10log (96.67) = 30.85 dBm > 24dBm
4. 11dBm + 10log (5725.00 - 5645.97) = 29.98 dBm > 24dBm

Ant. 0 + 1 (MIMO)

802.11a

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.34	17.44	109.663	20.40	24.00	Pass
40	5200	17.32	17.31	107.778	20.33	24.00	Pass
48	5240	17.32	17.31	107.778	20.33	24.00	Pass
52	5260	17.42	17.31	109.035	20.38	24.00	Pass
60	5300	17.36	17.33	108.525	20.36	24.00	Pass
64	5320	17.37	17.31	108.403	20.35	24.00	Pass
100	5500	17.37	17.60	**112.120**	20.50	24.00	Pass
116	5580	17.35	17.28	107.781	20.33	24.00	Pass
140	5700	17.33	17.30	107.778	20.33	24.00	Pass
144	5720 (For U-NII-2C)	14.60	14.42	56.509	17.52	23.28	Pass
144	5720 (For U-NII-3)	8.34	7.96	13.075	11.16	30.00	Pass
149	5745	17.32	17.25	107.039	20.30	30.00	Pass
157	5785	17.48	17.29	109.556	20.40	30.00	Pass
165	5825	17.30	17.27	107.036	20.30	30.00	Pass

Note:

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

Chain 0

1. 11dBm + 10log (24.37) = 24.87 dBm > 24dBm
2. 11dBm + 10log (24.50) = 24.89 dBm > 24dBm
3. 11dBm + 10log (24.21) = 24.84 dBm > 24dBm
4. 11dBm + 10log (24.44) = 24.88 dBm > 24dBm
5. 11dBm + 10log (24.44) = 24.88 dBm > 24dBm
6. 11dBm + 10log (24.30) = 24.86 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5707.94) = 23.32 dBm < 24dBm

Chain 1

1. 11dBm + 10log (25.53) = 25.07 dBm > 24dBm
2. 11dBm + 10log (26.11) = 25.17 dBm > 24dBm
3. 11dBm + 10log (24.66) = 24.92 dBm > 24dBm
4. 11dBm + 10log (25.85) = 25.12 dBm > 24dBm
5. 11dBm + 10log (26.93) = 25.30 dBm > 24dBm
6. 11dBm + 10log (24.70) = 24.93 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5708.07) = 23.28 dBm < 24dBm

802.11n (HT20)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
36	5180	17.38	17.50	**110.936**	20.45	24.00	Pass
40	5200	17.37	17.38	109.278	20.39	24.00	Pass
48	5240	17.40	17.45	110.544	20.44	24.00	Pass
52	5260	17.45	17.33	109.665	20.40	24.00	Pass
60	5300	17.44	17.38	110.165	20.42	24.00	Pass
64	5320	17.44	17.35	109.788	20.41	24.00	Pass
100	5500	17.44	17.52	111.957	20.49	24.00	Pass
116	5580	17.43	17.36	109.785	20.41	24.00	Pass
140	5700	17.36	17.31	108.277	20.35	24.00	Pass
144	5720 (For U-NII-2C)	14.85	15.27	66.233	18.21	23.46	Pass
144	5720 (For U-NII-3)	8.63	9.36	16.429	12.16	30.00	Pass
149	5745	17.42	17.31	109.035	20.38	30.00	Pass
157	5785	17.55	17.33	**110.917**	20.45	30.00	Pass
165	5825	17.35	17.34	108.525	20.36	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
Chain 0
1. 11dBm + 10log (25.26) = 25.02 dBm > 24dBm
2. 11dBm + 10log (24.51) = 24.89 dBm > 24dBm
3. 11dBm + 10log (25.78) = 25.11 dBm > 24dBm
4. 11dBm + 10log (24.96) = 24.97 dBm > 24dBm
5. 11dBm + 10log (25.98) = 25.15 dBm > 24dBm
6. 11dBm + 10log (25.55) = 25.07 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5707.36) = 23.46 dBm < 24dBm

Chain 1
1. 11dBm + 10log (28.23) = 25.51 dBm > 24dBm
2. 11dBm + 10log (26.50) = 25.23 dBm > 24dBm
3. 11dBm + 10log (26.80) = 25.28 dBm > 24dBm
4. 11dBm + 10log (28.07) = 25.48 dBm > 24dBm
5. 11dBm + 10log (28.03) = 25.48 dBm > 24dBm
6. 11dBm + 10log (27.87) = 25.45 dBm > 24dBm
7. 11dBm + 10log (5725.00 - 5706.63) = 23.64 dBm < 24dBm

802.11n (HT40)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
38	5190	17.39	17.31	108.655	20.36	24.00	Pass
46	5230	17.41	17.33	109.156	20.38	24.00	Pass
54	5270	17.43	17.33	109.410	20.39	24.00	Pass
62	5310	17.38	17.58	**111.982**	20.49	24.00	Pass
102	5510	17.38	17.29	108.282	20.35	24.00	Pass
110	5550	17.41	17.27	108.414	20.35	24.00	Pass
134	5670	17.34	17.25	107.288	20.31	24.00	Pass
142	5710 (For U-NII-2C)	14.95	15.40	69.260	18.40	24.00	Pass
142	5710 (For U-NII-3)	3.83	3.34	4.804	6.82	30.00	Pass
151	5755	17.47	17.27	109.180	20.38	30.00	Pass
159	5795	17.39	17.25	107.916	20.33	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
Chain 0
1. 11dBm + 10log (42.36) = 27.27 dBm > 24dBm
2. 11dBm + 10log (42.43) = 27.28 dBm > 24dBm
3. 11dBm + 10log (42.35) = 27.27 dBm > 24dBm
4. 11dBm + 10log (42.48) = 27.28 dBm > 24dBm
5. 11dBm + 10log (42.35) = 27.27 dBm > 24dBm
6. 11dBm + 10log (5725.00 - 5688.91) = 26.57 dBm > 24dBm

Chain 1
1. 11dBm + 10log (49.89) = 27.98 dBm > 24dBm
2. 11dBm + 10log (45.03) = 27.54 dBm > 24dBm
3. 11dBm + 10log (41.98) = 27.23 dBm > 24dBm
4. 11dBm + 10log (49.86) = 27.98 dBm > 24dBm
5. 11dBm + 10log (42.39) = 27.27 dBm > 24dBm
6. 11dBm + 10log (5725.00 - 5688.76) = 26.59 dBm > 24dBm

802.11ac (VHT80)

Chan.	Freq. (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
42	5210	17.38	17.27	108.035	20.34	24.00	Pass
58	5290	17.31	17.30	107.530	20.32	24.00	Pass
106	5530	17.30	17.33	107.778	20.33	24.00	Pass
122	5610	17.31	17.28	107.283	20.31	24.00	Pass
138	5690 (For U-NII-2C)	13.71	13.87	51.872	17.15	24.00	Pass
138	5690 (For U-NII-3)	0.96	-2.05	2.027	3.07	30.00	Pass
155	5775	17.26	17.25	106.299	20.27	30.00	Pass

Note:
For U-NII-2A, U-NII-2C Band:
hain 0
1. 11dBm + 10log (84.43) = 30.26 dBm > 24dBm
2. 11dBm + 10log (83.92) = 30.24 dBm > 24dBm
3. 11dBm + 10log (84.59) = 30.27 dBm > 24dBm
4. 11dBm + 10log (5725.00 - 5641.12) = 30.24 dBm > 24dBm

Chain 1
1. 11dBm + 10log (100.56) = 31.02 dBm > 24dBm
2. 11dBm + 10log (95.76) = 30.81 dBm > 24dBm
3. 11dBm + 10log (96.67) = 30.85 dBm > 24dBm
4. 11dBm + 10log (5725.00 - 5645.97) = 29.98 dBm > 24dBm

26dB Bandwidth:

802.11a

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	24.37	25.53
60	5300	24.50	26.11
64	5320	24.21	24.66
100	5500	24.44	25.85
116	5580	24.44	26.93
140	5700	24.30	24.70
144	5720 (For U-NII-2C)	17.06	16.93
144	5720 (For U-NII-3)	6.78	7.45

802.11n (HT20)

Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
52	5260	25.26	28.23
60	5300	24.51	26.50
64	5320	25.78	26.80
100	5500	24.96	28.07
116	5580	25.98	28.03
140	5700	25.55	27.87
144	5720 (For U-NII-2C)	17.64	18.37
144	5720 (For U-NII-3)	7.57	8.56

802.11n (HT40)

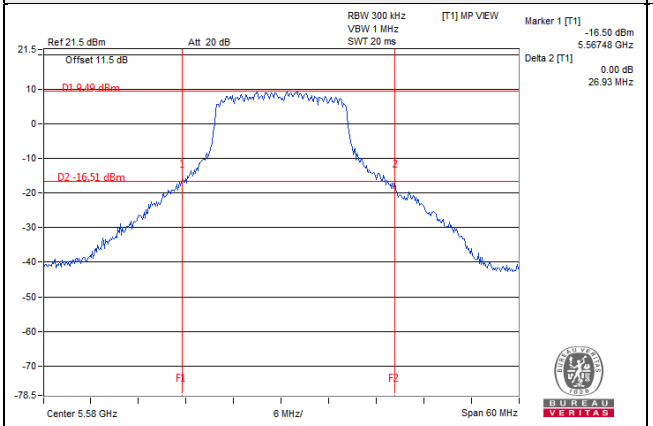
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
54	5270	42.36	49.89
62	5310	42.43	45.03
102	5510	42.35	41.98
110	5550	42.48	49.86
134	5670	42.35	42.39
142	5710 (For U-NII-2C)	36.09	36.24
142	5710 (For U-NII-3)	5.98	6.17

802.11ac (VHT80)

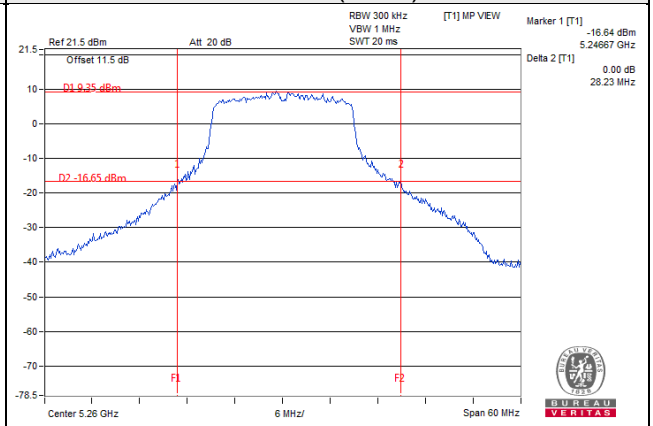
Chan.	Freq. (MHz)	26dBc Bandwidth (MHz)	
		Chain 0	Chain 1
58	5290	84.43	100.56
106	5530	83.92	95.76
122	5610	84.59	96.67
138	5690 (For U-NII-2C)	83.88	79.03
138	5690 (For U-NII-3)	7.29	20.98

Spectrum Plot of Worst Value

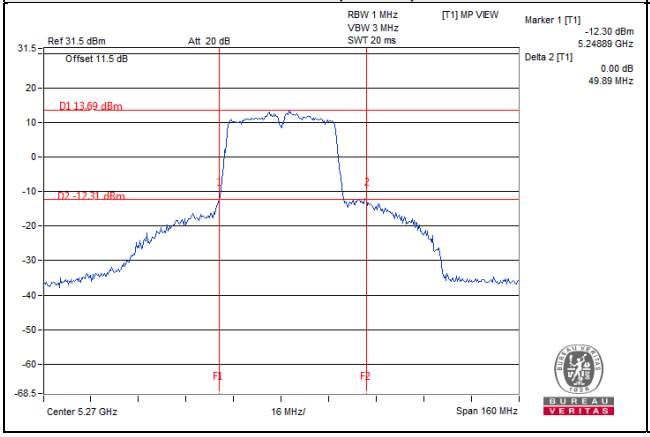
802.11a



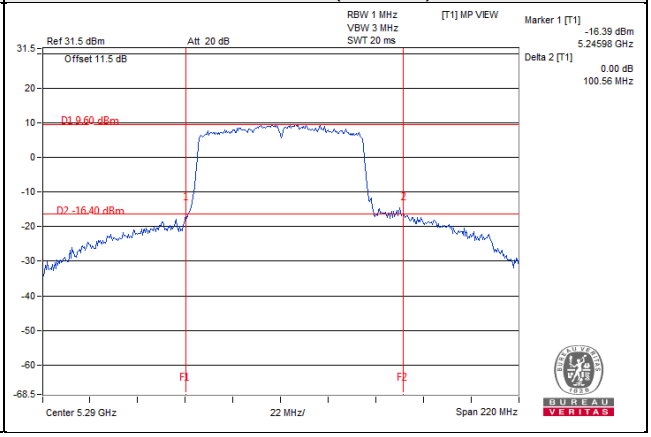
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)



EUT Maximum Conducted Power

802.11a

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	109.035	20.38
5470~5725	112.120	20.50

802.11n (HT20)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	110.165	20.42
5470~5725	111.957	20.49

802.11n (HT40)

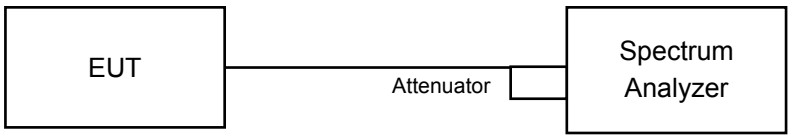
Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	111.982	20.49
5470~5725	108.414	20.35

802.11ac (VHT80)

Frequency Band (MHz)	Max. Power	
	Output Power (mW)	Output Power (dBm)
5250~5350	107.530	20.32
5470~5725	107.778	20.33

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

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

4.4.4 Test Result

802.11a

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	16.80	16.80
40	5200	16.80	16.92
48	5240	16.80	16.92
52	5260	16.80	16.92
60	5300	16.80	16.92
64	5320	16.92	17.04
100	5500	16.92	16.80
116	5580	16.92	16.80
140	5700	16.92	16.80
144	5720 (For U-NII-2C)	13.28	13.28
144	5720 (For U-NII-3)	3.16	3.16
149	5745	16.80	16.92
157	5785	16.92	16.92
165	5825	16.68	16.80

802.11n (HT20)

Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
36	5180	17.88	18.00
40	5200	17.88	18.00
48	5240	18.00	18.00
52	5260	18.00	18.00
60	5300	18.12	18.00
64	5320	18.00	18.00
100	5500	18.00	18.00
116	5580	17.88	18.12
140	5700	18.12	18.00
144	5720 (For U-NII-2C)	14.00	14.00
144	5720 (For U-NII-3)	3.76	3.76
149	5745	17.88	18.00
157	5785	18.00	18.00
165	5825	18.00	18.12

802.11n (HT40)

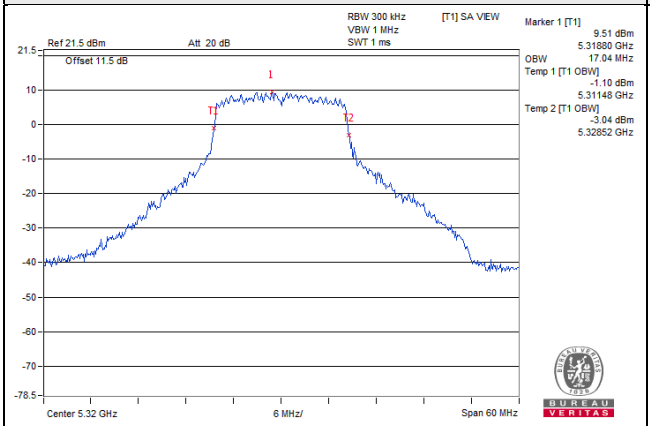
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
38	5190	36.60	36.72
46	5230	36.72	36.60
54	5270	36.60	36.72
62	5310	36.60	36.60
102	5510	36.48	36.48
110	5550	36.60	36.60
134	5670	36.60	36.60
142	5710 (For U-NII-2C)	33.36	33.36
142	5710 (For U-NII-3)	3.24	3.24
151	5755	36.60	36.60
159	5795	36.48	36.60

802.11ac (VHT80)

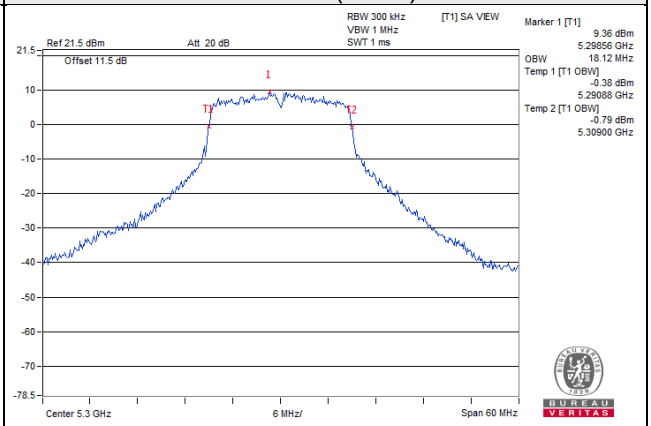
Chan.	Freq. (MHz)	Occupied Bandwidth (MHz)	
		Chain 0	Chain 1
42	5210	75.84	75.84
58	5290	75.60	75.84
106	5530	75.84	75.84
122	5610	75.84	75.84
138	5690 (For U-NII-2C)	72.92	72.92
138	5690 (For U-NII-3)	2.68	2.92
155	5775	75.60	75.60

Spectrum Plot of Worst Value

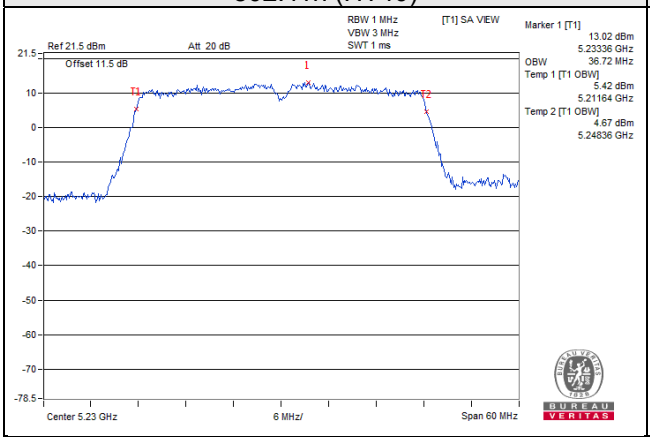
802.11a



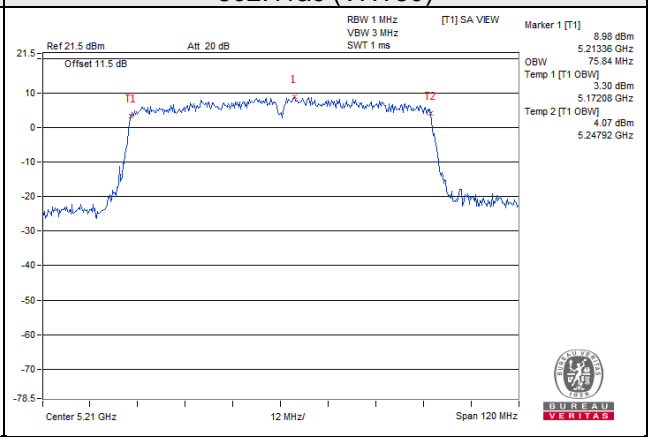
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

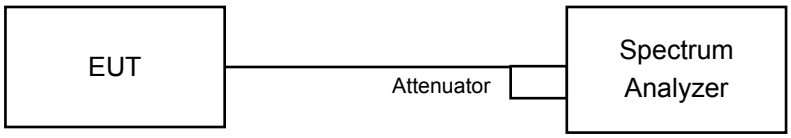


4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
SPECTRUM ANALYZER R&S	FSP40	100041	Dec 12, 2017	Dec 11, 2018

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

4.5.4 Test Procedures

For 5180~5240MHz, 5260~5320MHz, 5500~5700MHz

Duty cycle of test signal is ≥ 98%

Using method SA-1

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

Duty cycle of test signal is < 98%

Using method SA-2

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

For 5745~5825MHz

Duty cycle ≥ 98%

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

Duty cycle <98%

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

Same as 4.3.6.

4.5.7 Test Results

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

802.11a

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Total PSD (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1			
36	5180	5.65	4.42	8.09	11.00	Pass
40	5200	5.45	4.64	8.07	11.00	Pass
48	5240	5.31	4.73	8.04	11.00	Pass
52	5260	5.72	5.17	8.46	11.00	Pass
60	5300	5.46	5.11	8.30	11.00	Pass
64	5320	5.33	5.17	8.26	11.00	Pass
100	5500	5.21	4.97	8.10	11.00	Pass
116	5580	4.99	4.86	7.94	11.00	Pass
140	5700	4.43	4.41	7.43	11.00	Pass
144	5720	4.56	4.09	7.34	11.00	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. U-NII-1 Band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 1.87dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2A Band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 1.48dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2C Band: Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 0.5dBi < 6dBi, so the power density limit no need to reduce.

802.11n (HT20)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
36	5180	4.43	4.18	0.14	7.46	11.00	Pass
40	5200	4.55	4.48	0.14	7.67	11.00	Pass
48	5240	4.89	4.54	0.14	7.87	11.00	Pass
52	5260	5.20	4.70	0.14	8.11	11.00	Pass
60	5300	5.00	4.63	0.14	7.97	11.00	Pass
64	5320	4.89	4.72	0.14	7.96	11.00	Pass
100	5500	4.38	4.51	0.14	7.60	11.00	Pass
116	5580	4.51	4.81	0.14	7.81	11.00	Pass
140	5700	4.32	4.48	0.14	7.55	11.00	Pass
144	5720	4.37	4.49	0.14	7.58	11.00	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. U-NII-1 Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 1.87dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2A Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 1.48dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2C Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 0.5dBi < 6dBi, so the power density limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
38	5190	2.48	1.95	0.21	5.44	11.00	Pass
46	5230	2.71	1.78	0.21	5.49	11.00	Pass
54	5270	2.80	2.21	0.21	5.74	11.00	Pass
62	5310	2.62	1.92	0.21	5.50	11.00	Pass
102	5510	1.98	1.40	0.21	4.92	11.00	Pass
110	5550	1.75	1.73	0.21	4.96	11.00	Pass
134	5670	1.85	1.65	0.21	4.97	11.00	Pass
142	5710	1.69	1.68	0.21	4.91	11.00	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. U-NII-1 Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 1.87dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2A Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 1.48dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2C Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 0.5dBi < 6dBi, so the power density limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

802.11ac (VHT80)

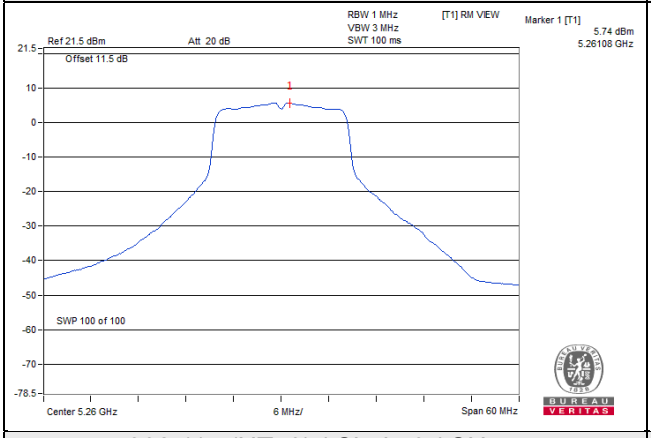
Chan.	Freq. (MHz)	PSD w/o Duty Factor (dBm/MHz)		Duty Factor (dB)	Total PSD with Duty Factor (dBm/MHz)	Max. Limit (dBm/MHz)	Pass / Fail
		Chain 0	Chain 1				
42	5210	-1.17	-1.74	0.35	1.91	11.00	Pass
58	5290	-1.02	-1.14	0.35	2.28	11.00	Pass
106	5530	-1.78	-1.83	0.35	1.56	11.00	Pass
122	5610	-1.64	-1.71	0.35	1.69	11.00	Pass
138	5690	-1.72	-1.40	0.35	1.80	11.00	Pass

Note:

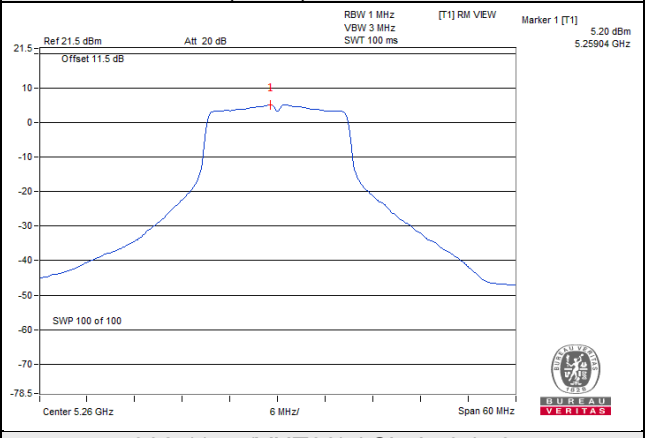
1. Method 1 of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. U-NII-1 Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 1.87dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2A Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 1.48dBi < 6dBi, so the power density limit no need to reduce.
   U-NII-2C Band: Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2]$= 0.5dBi < 6dBi, so the power density limit no need to reduce.
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

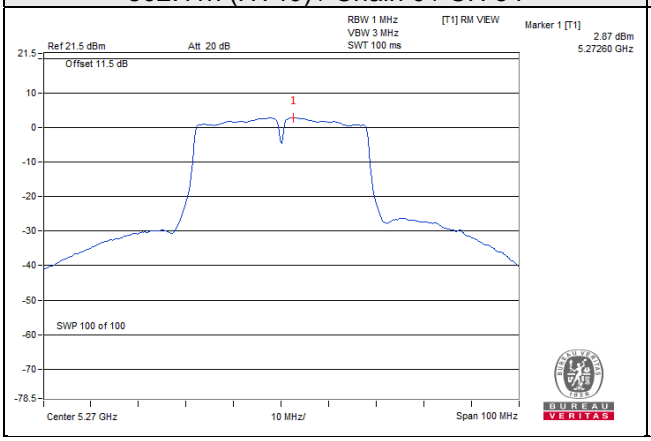
802.11a / Chain 0 / CH 52



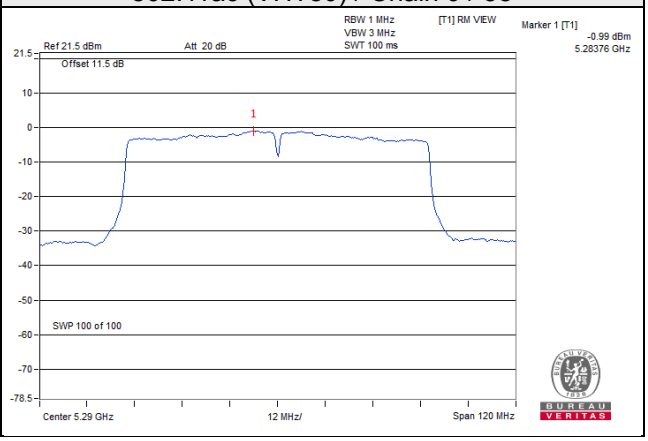
802.11n (HT20) / Chain 0 / CH 52



802.11n (HT40) / Chain 0 / CH 54



802.11ac (VHT80) / Chain 0 / 58



For U-NII-3 band:

802.11a

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Total PSD (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)				
0	144	5720	-5.53	-3.31	3.01	-0.30	30.00	Pass
	149	5745	-4.19	-1.97	3.01	1.04	30.00	Pass
	157	5785	-3.78	-1.56	3.01	1.45	30.00	Pass
	165	5825	-3.78	-1.56	3.01	1.45	30.00	Pass
1	144	5720	-5.84	-3.62	3.01	-0.61	30.00	Pass
	149	5745	-3.73	-1.51	3.01	1.50	30.00	Pass
	157	5785	-3.54	-1.32	3.01	1.69	30.00	Pass
	165	5825	-4.09	-1.87	3.01	1.14	30.00	Pass

Note:

1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 0.11dBi < 6dBi, so the power density limit no need to reduce.

802.11n (HT20)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	144	5720	-5.43	-3.21	3.01	0.14	-0.06	30.00	Pass
	149	5745	-4.02	-1.80	3.01	0.14	1.35	30.00	Pass
	157	5785	-3.93	-1.71	3.01	0.14	1.44	30.00	Pass
	165	5825	-3.65	-1.43	3.01	0.14	1.72	30.00	Pass
1	144	5720	-5.52	-3.30	3.01	0.14	-0.15	30.00	Pass
	149	5745	-4.26	-2.04	3.01	0.14	1.11	30.00	Pass
	157	5785	-3.97	-1.75	3.01	0.14	1.40	30.00	Pass
	165	5825	-4.02	-1.80	3.01	0.14	1.35	30.00	Pass

Note:

1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 0.11dBi < 6dBi, so the power density limit no need to reduce.
2. Refer to section 3.3 for duty cycle spectrum plot.

802.11n (HT40)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	142	5710	-8.76	-6.54	3.01	0.21	-3.32	30.00	Pass
	151	5755	-8.14	-5.92	3.01	0.21	-2.70	30.00	Pass
	159	5795	-7.88	-5.66	3.01	0.21	-2.44	30.00	Pass
1	142	5710	-8.83	-6.61	3.01	0.21	-3.39	30.00	Pass
	151	5755	-7.91	-5.69	3.01	0.21	-2.47	30.00	Pass
	159	5795	-7.51	-5.29	3.01	0.21	-2.07	30.00	Pass

Note:
1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 0.11dBi < 6dBi, so the power density limit no need to reduce.
2. Refer to section 3.3 for duty cycle spectrum plot.

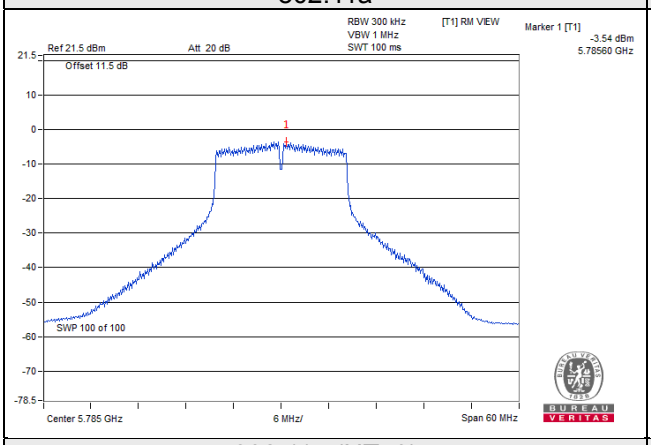
802.11ac (VHT80)

TX chain	Chan.	Freq. (MHz)	PSD W/O Duty Factor		10 log (N=2) dB	Duty Factor (dB)	Total PSD With Duty Factor (dBm/500kHz)	Limit (dBm/ 500kHz)	Pass / Fail
			(dBm/300kHz)	(dBm/500kHz)					
0	138	5690	-12.44	-10.22	3.01	0.35	-6.86	30.00	Pass
	155	5775	-10.83	-8.61	3.01	0.35	-5.25	30.00	Pass
1	138	5690	-12.27	-10.05	3.01	0.35	-6.69	30.00	Pass
	155	5775	-9.96	-7.74	3.01	0.35	-4.38	30.00	Pass

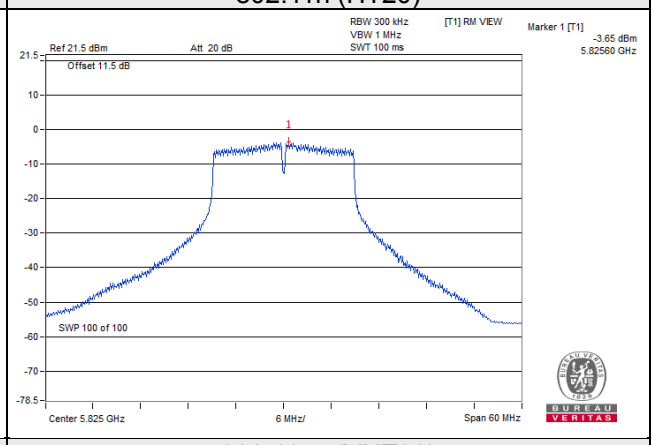
Note:
1. Directional gain = 10 log[$(10^{G1/20} + 10^{G2/20} + \cdots + 10^{GN/20})^2/2$]= 0.11dBi < 6dBi, so the power density limit no need to reduce.
2. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

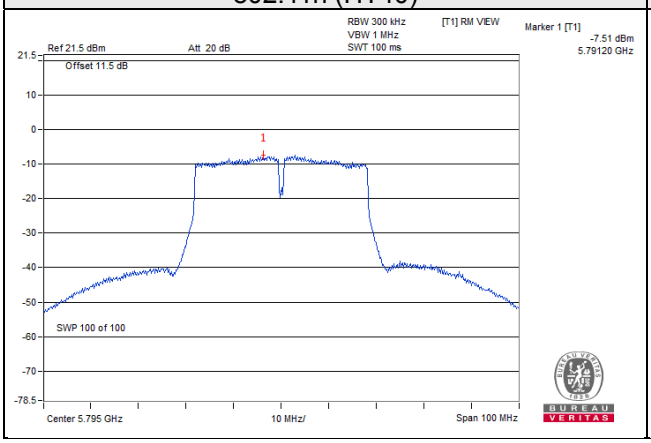
802.11a



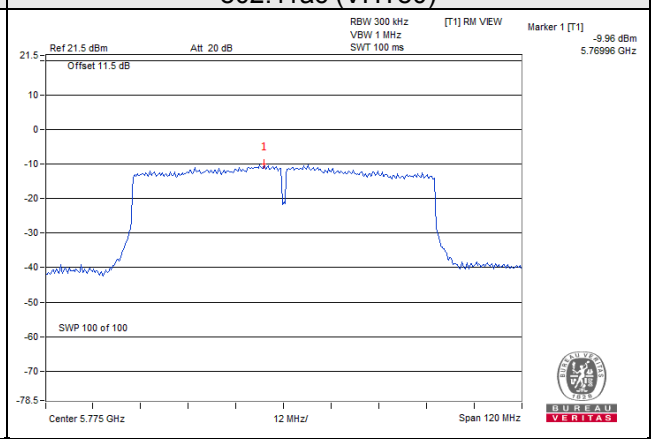
802.11n (HT20)



802.11n (HT40)



802.11ac (VHT80)

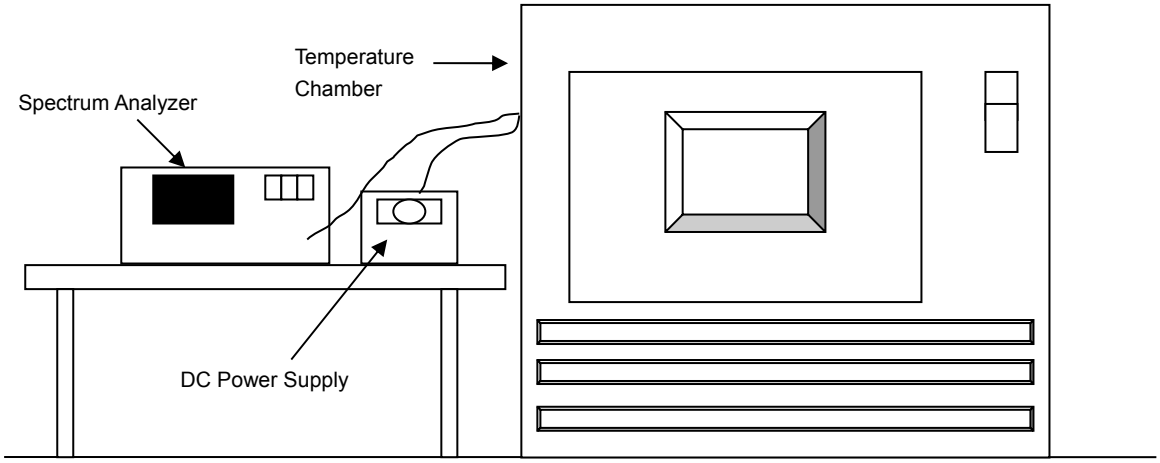


4.6 Frequency Stability

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 11, 2018	Jun. 10, 2019
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 04, 2018	Jun. 03, 2019
Digital Multimeter Fluke	87-III	70360742	Jun. 29, 2018	Jun. 28, 2019
DC Power Supply Topward	6603D	700637	NA	NA

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

4.6.4 Test Procedure

a. The EUT was placed inside the environmental test chamber and powered by nominal DC 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. Repeated step d with the temperature chamber sets to each desired 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.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results

Frequency Stability Versus Temp.									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
55	3.85	5180.016	Pass	5180.0172	Pass	5180.0174	Pass	5180.0145	Pass
50	3.85	5179.9961	Pass	5179.9952	Pass	5179.9962	Pass	5179.998	Pass
40	3.85	5180.0235	Pass	5180.0235	Pass	5180.0241	Pass	5180.0262	Pass
30	3.85	5180.0172	Pass	5180.0143	Pass	5180.0171	Pass	5180.0137	Pass
20	3.85	5180.0233	Pass	5180.0245	Pass	5180.0225	Pass	5180.0227	Pass
10	3.85	5179.9996	Pass	5179.9961	Pass	5179.9965	Pass	5179.9991	Pass
0	3.85	5179.9913	Pass	5179.99	Pass	5179.9917	Pass	5179.9892	Pass
-10	3.85	5179.9943	Pass	5179.9969	Pass	5179.997	Pass	5179.9963	Pass

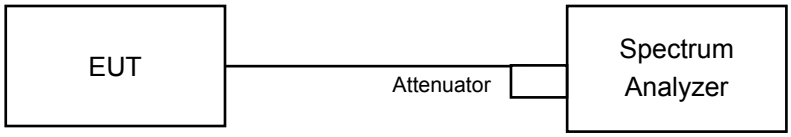
Frequency Stability Versus Voltage									
Operating Frequency: 5180MHz									
Temp. (℃)	Power Supply (Vdc)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result	Measured Frequency (MHz)	Result
20	4.4	5180.0178	Pass	5180.014	Pass	5180.0181	Pass	5180.0128	Pass
	3.85	5180.0172	Pass	5180.0143	Pass	5180.0171	Pass	5180.0137	Pass
	3.6	5180.0168	Pass	5180.0135	Pass	5180.0167	Pass	5180.0134	Pass

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results

802.11a

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (For U-NII-3)	5720	15.57	15.40	0.5	Pass
149	5745	15.52	15.75	0.5	Pass
157	5785	15.79	16.28	0.5	Pass
165	5825	15.40	15.74	0.5	Pass

802.11n (HT20)

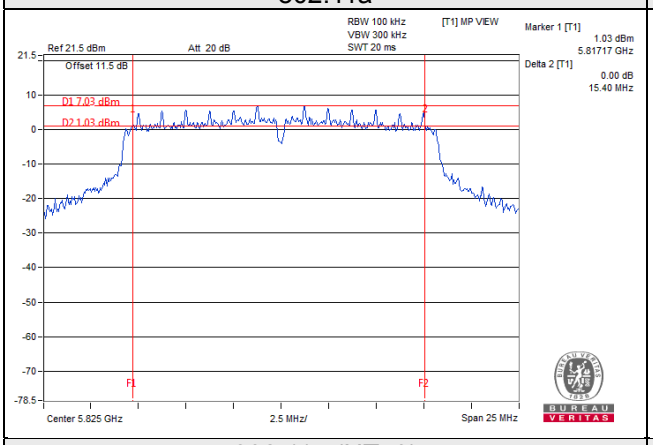
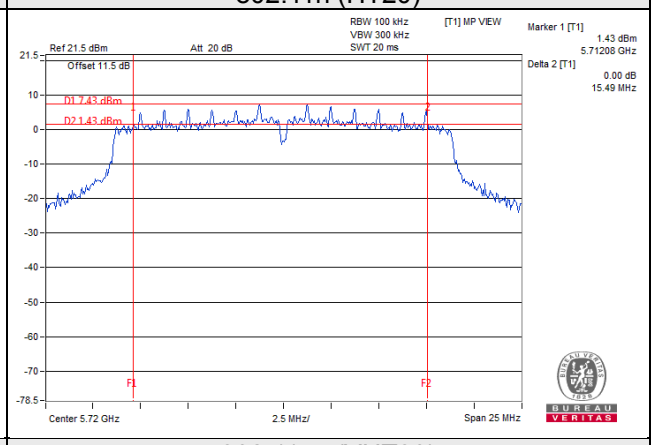
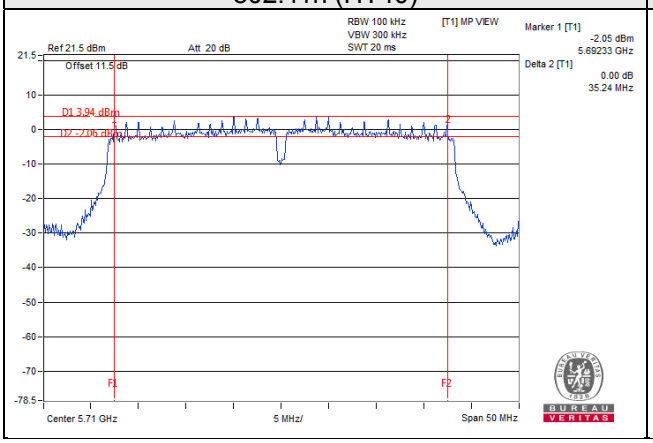
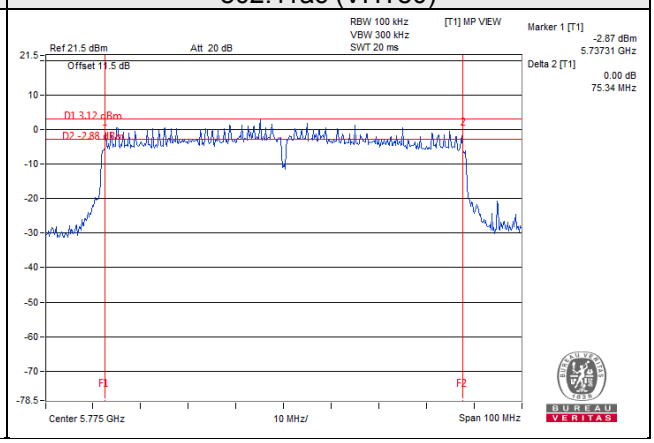
Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
144 (For U-NII-3)	5720	15.49	15.98	0.5	Pass
149	5745	16.06	16.82	0.5	Pass
157	5785	16.22	16.57	0.5	Pass
165	5825	16.04	16.38	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
142 (For U-NII-3)	5710	35.24	35.30	0.5	Pass
151	5755	35.64	35.77	0.5	Pass
159	5795	35.35	35.32	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
138 (For U-NII-3)	5690	75.40	75.34	0.5	Pass
155	5775	75.40	75.34	0.5	Pass

Spectrum Plot of Worst Value	
802.11a	802.11n (HT20)
	
802.11n (HT40)	802.11ac (VHT80)
	

Note:

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

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

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

4.8 Automatically Discontinue Transmission

4.8.1 Limit of Automatically Discontinue Transmission

FCC 15.407(c) states: The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

Data transmission is always initiated by software, which is then pass down through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets (ACKs, CTS, PSPoll, etc…) are initiated by the MAC. There are the only ways the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets are being transmitted.

4.8.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.8.3 Test Result

While the EUT is not transmitting any information, the EUT does automatically discontinue transmission and become standby mode for power saving. The EUT does detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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 FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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

Linko EMC/RF Lab
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Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab
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Tel: 886-3-3183232
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Email: service.adt@tw.bureauveritas.com
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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