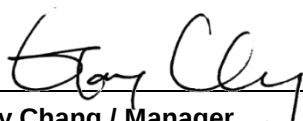


FCC Test Report

FCC ID : I88WAC6103D-I
Equipment : 802.11 ac Unified Pro Access Point
Model No. : WAC6103D-I
Brand Name : ZyXEL
Applicant : ZyXEL Communications Corporation
Address : No. 2, Gongye E. 9th Road, Hsinchu Science
Park, Hsinchu, Taiwan.
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 30, 2015
Tested Date : Jul. 18 ~ Aug. 10, 2015

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Approved & Reviewed by:



Gary Chang / Manager



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Local Support Equipment List	8
1.3	Test Setup Chart	8
1.4	The Equipment List	9
1.5	Test Standards	10
1.6	Measurement Uncertainty	10
2	TEST CONFIGURATION	11
2.1	Testing Condition	11
2.2	The Worst Test Modes and Channel Details	11
3	TRANSMITTER TEST RESULTS.....	12
3.1	Conducted Emissions.....	12
3.2	6dB and Occupied Bandwidth	15
3.3	RF Output Power	18
3.4	Power Spectral Density	20
3.5	Unwanted Emissions into Restricted Frequency Bands	22
3.6	Emissions in Non-Restricted Frequency Bands.....	76
4	TEST LABORATORY INFORMATION	103

Release Record

Report No.	Version	Description	Issued Date
FR563002AC	Rev. 01	Initial issue	Aug. 21, 2015
FR563002AC	Rev. 02	Modified product name	Aug. 25, 2015

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 2.435MHz 40.71 (Margin -15.29dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2288.00MHz 53.63 (Margin -0.37dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 27.57	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	3	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	3	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	3	MCS 0-23
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	3	MCS 0-23

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

1.1.2 Antenna Set Details

Brand / Model	Ant. No.	Type	Connector	Frequencies (MHz) / Antenna Gain (dBi)			Remark
				2400~2483.5	5150~5250	5725~5850	
SINBON / 2.4G & 5G Metal & PCB Antenna	1	PIFA	UFL	3.28	---	---	Ceiling mounted: Antenna 1 / 2 / 3
	2	PIFA	UFL	3.37	---	---	
	3	PIFA	UFL	3.15	---	---	
	4	Dipole	UFL	4.33	---	---	Wall mounted: Antenna 1 / 2 / 4
	5	LOOP	UFL	---	4.38	4.23	Ceiling mounted: Antenna 5 / 6 / 7
	6	LOOP	UFL	---	4.31	4.22	
	7	LOOP	UFL	---	4.38	4.36	
	8	Dipole	UFL	---	5.12	5.20	Wall mounted: Antenna 5 / 6 / 8

Note:

- The device has a hardware control switch to change operating mode as Ceiling or Wall mounted mode. The difference between both operating modes is only transmission antennas combination.
- The antenna set includes 8 antennas as above table.

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	48Vdc from POE (support unit only.)
-------------------	-------------------------------------

1.1.4 Accessories

N/A

1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

1.1.6 Test Tool and Duty Cycle

Test Tool	ART2-GUI, Version 2.3		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11b	100.00%	0.00
	11g	98.25%	0.08
	HT20	98.13%	0.08
	HT40	96.85%	0.14

1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	19
11b	2437	23
11b	2462	19
11g	2412	13
11g	2437	22
11g	2462	14
HT20	2412	12.5
HT20	2437	21
HT20	2462	13.5
HT40	2422	9
HT40	2437	13
HT40	2452	11

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
EMC Receiver	R&S	ESCS 30	100169	Oct. 17, 2014	Oct. 16, 2015
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 17, 2014	Nov. 16, 2015
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Dec. 31, 2014	Dec. 30, 2015
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 09, 2014	Dec. 08, 2015
Receiver	R&S	ESR3	101658	Nov. 10, 2014	Nov. 09, 2015
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Sep. 05, 2014	Sep. 04, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 11, 2014	Dec. 10, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 10, 2014	Nov. 09, 2015
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 10, 2014	Nov. 09, 2015
Preamplifier	Burgeon	BPA-530	SN:100219	Sep. 09, 2014	Sep. 08, 2015
Preamplifier	Agilent	83017A	MY39501308	Oct. 09, 2014	Oct. 08, 2015
Preamplifier	EMC	EMC184045B	980192	Aug. 26, 2014	Aug. 25, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 15, 2014	Dec. 14, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 15, 2014	Dec. 14, 2015
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 15, 2014	Dec. 14, 2015
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 15, 2014	Dec. 14, 2015
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 15, 2014	Dec. 14, 2015
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 03, 2015	Feb. 02, 2016
Power Meter	Anritsu	ML2495A	1241002	Sep. 29, 2014	Sep. 28, 2015
Power Sensor	Anritsu	MA2411B	1207366	Sep. 29, 2014	Sep. 28, 2015
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 DTS Meas Guidance v03r03

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.134 Hz
Conducted power	± 0.808 dB
Power density	± 0.463 dB
Conducted emission	± 2.670 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.72 dB
Radiated emission > 1 GHz	± 5.65 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	21°C / 60%	Kevin Ma
Radiated Emissions	03CH01-WS	21-25°C / 61-66%	Anderson Hong Aska Huang Morgan Chen
RF Conducted	TH01-WS	21°C / 63%	Brad Wu

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11b	2437	1 Mbps	2
Radiated Emissions ≤1GHz	11b	2437	1 Mbps	1, 2
Radiated Emissions >1GHz	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	1, 2
Maximum Output Power 6dB bandwidth Power spectral density	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	2

NOTE:

- The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Y-plane** and **Z-plane** results were found as the worst case and were shown in this report as below test configuration.
- The device was designed to be ceiling mounted or wall mounted with different group of antenna. Each group of antenna was selected to perform radiated emission test as below test configuration.
- Test Configurations are listed as below:
 - Configuration 1: Ceiling mounted, Z-plane.
 - Configuration 2: Wall mounted, Y-plane

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

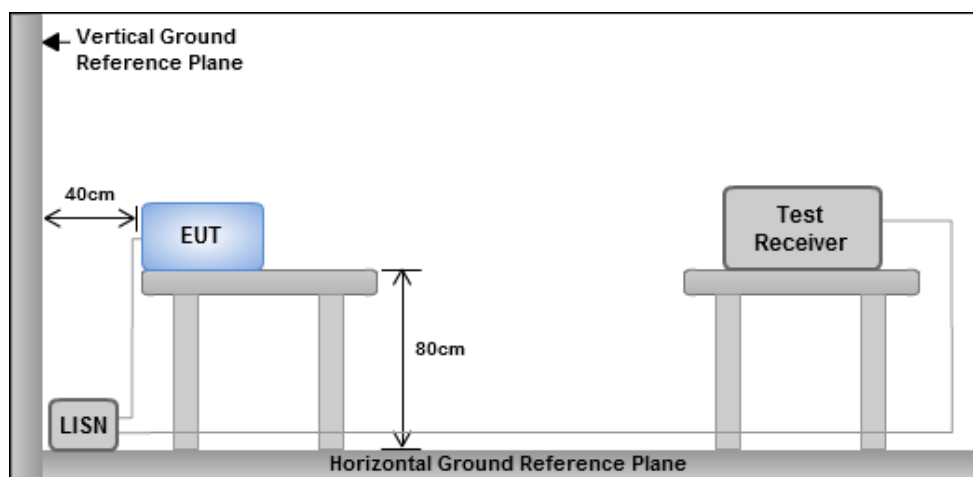
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

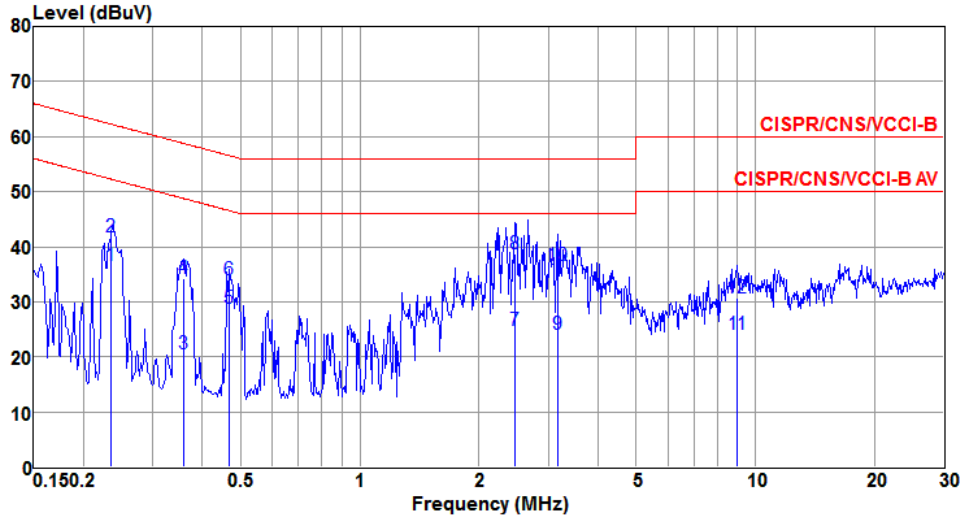
3.1.3 Test Setup



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

3.1.4 Test Result of Conducted Emissions

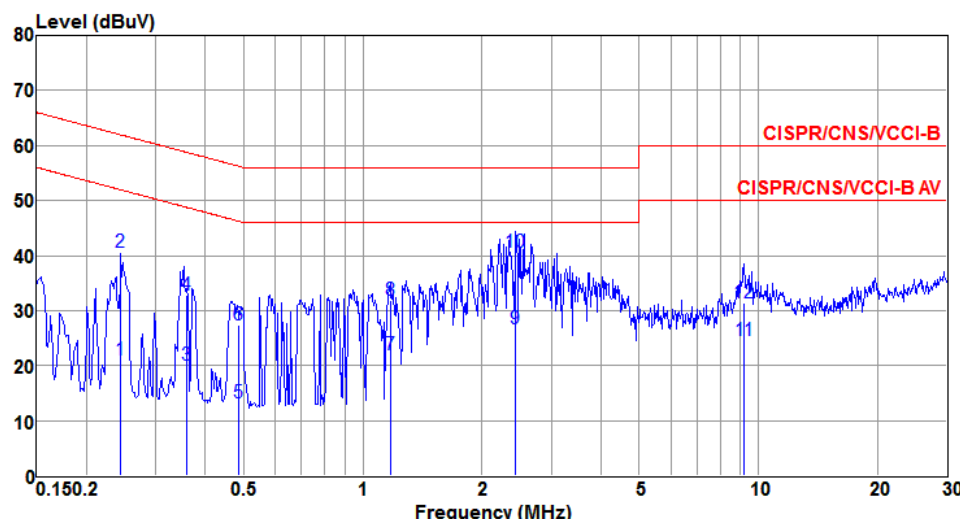
Modulation	11b	Test Freq. (MHz)	2437
Power Phase	Line		



	Freq	Level	Limit	Over	Read	LISN	cable	Remark
	MHz	dBuV	Line	Limit	Level	factor	loss	
			dBuV	dB	dBuV	dB	dB	
1*	0.235	36.59	52.26	-15.67	26.84	9.66	0.09	Average
2	0.235	41.68	62.26	-20.58	31.93	9.66	0.09	QP
3	0.358	20.49	48.78	-28.29	10.72	9.66	0.11	Average
4	0.358	34.33	58.78	-24.45	24.56	9.66	0.11	QP
5	0.466	28.70	46.58	-17.88	18.92	9.66	0.12	Average
6	0.466	33.94	56.58	-22.64	24.16	9.66	0.12	QP
7	2.461	24.73	46.00	-21.27	14.80	9.67	0.26	Average
8	2.461	38.74	56.00	-17.26	28.81	9.67	0.26	QP
9	3.156	24.12	46.00	-21.88	14.15	9.68	0.29	Average
10	3.156	36.63	56.00	-19.37	26.66	9.68	0.29	QP
11	9.011	24.09	50.00	-25.91	14.07	9.72	0.30	Average
12	9.011	30.60	60.00	-29.40	20.58	9.72	0.30	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11b	Test Freq. (MHz)	2437
Power Phase	Neutral		



Freq	Level	Limit	Over	Read	LISN	cable	Remark	
MHz	dBuV	Line	Limit	Level	factor	loss		
		dBuV	dB	dBuV	dB	dB		
1	0.244	20.97	51.95	-30.98	11.21	9.66	0.10	Average
2	0.244	40.67	61.95	-21.28	30.91	9.66	0.10	QP
3	0.358	20.12	48.78	-28.66	10.35	9.66	0.11	Average
4	0.358	32.81	58.78	-25.97	23.04	9.66	0.11	QP
5	0.484	13.34	46.27	-32.93	3.56	9.66	0.12	Average
6	0.484	27.46	56.27	-28.81	17.68	9.66	0.12	QP
7	1.172	21.88	46.00	-24.12	12.04	9.66	0.18	Average
8	1.172	31.81	56.00	-24.19	21.97	9.66	0.18	QP
9	2.435	26.78	46.00	-19.22	16.85	9.67	0.26	Average
10*	2.435	40.71	56.00	-15.29	30.78	9.67	0.26	QP
11	9.204	24.44	50.00	-25.56	14.41	9.73	0.30	Average
12	9.204	31.41	60.00	-28.59	21.38	9.73	0.30	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

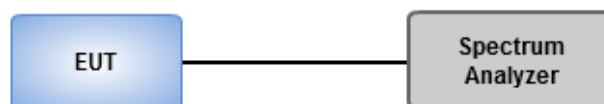
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1 MHz, Video bandwidth = 3 MHz.
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

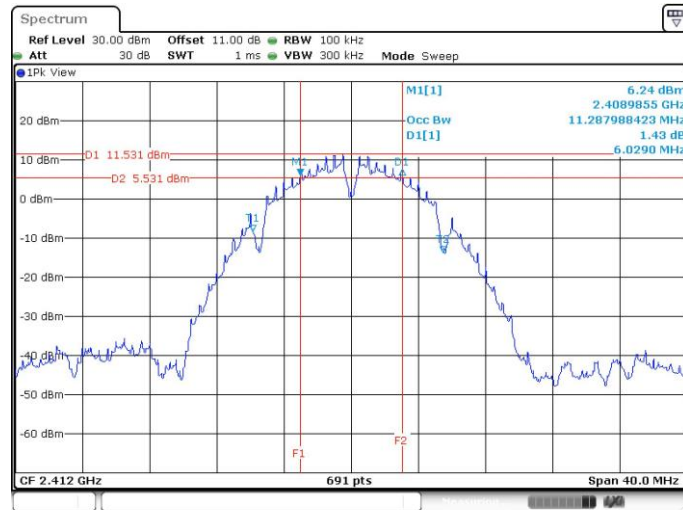
3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

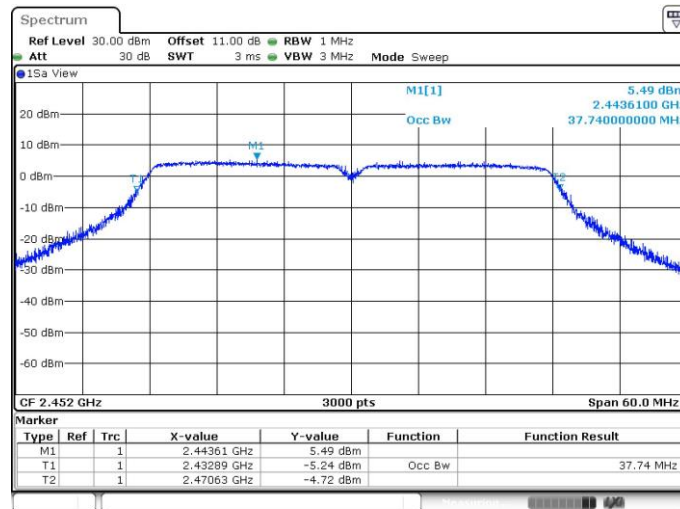
Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	3	2412	7.07	7.07	6.03	---	500
11b	3	2437	6.55	7.07	7.07	---	500
11b	3	2462	6.09	6.55	7.07	---	500
11g	3	2412	16.35	16.35	16.35	---	500
11g	3	2437	16.35	16.35	16.35	---	500
11g	3	2462	16.35	16.35	16.35	---	500
HT20	3	2412	17.62	17.62	17.62	---	500
HT20	3	2437	17.57	17.57	17.62	---	500
HT20	3	2462	17.62	17.62	17.62	---	500
HT40	3	2422	36.06	36.29	36.06	---	500
HT40	3	2437	36.17	36.41	36.41	---	500
HT40	3	2452	36.17	36.17	36.41	---	500

Worst Plots



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	3	2412	11.33	11.38	11.41	---
11b	3	2437	11.92	11.86	12.03	---
11b	3	2462	11.31	11.29	11.04	---
11g	3	2412	17.14	16.96	16.87	---
11g	3	2437	17.44	17.25	17.43	---
11g	3	2462	17.19	16.97	16.88	---
HT20	3	2412	18.21	18.11	18.05	---
HT20	3	2437	18.28	18.19	18.20	---
HT20	3	2462	18.23	18.13	18.06	---
HT40	3	2422	37.46	37.44	37.20	---
HT40	3	2437	37.62	37.44	37.14	---
HT40	3	2452	37.74	37.48	37.22	---

Worst Plots



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

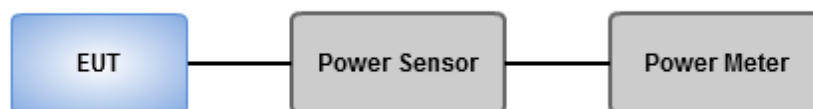
- ☒ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.
- ☐ Antenna gain $> 6\text{dBi}$
 - ☐ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB
 - ☐ Fixed, point to point operations
Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

Systems operating in the 5725–5850 MHz band that are used exclusively for fixed, point-to-point operations ,no any corresponding reduction is in transmitter peak output power

3.3.2 Test Procedures

- ☐ Maximum Peak Conducted Output Power
 - ☐ **Spectrum analyzer**
 1. Set RBW = 1MHz, VBW = 3MHz, Detector = Peak.
 2. Sweep time = auto, Trace mode = max hold, Allow trace to fully stabilize.
 3. Use the spectrum analyzer channel power measurement function with the band limits set equal to the DTS bandwidth edges.
 - ☐ **Power meter**
 1. A broadband Peak RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.
- ☒ Maximum Conducted Output Power
 - ☒ **Power meter**
 1. A broadband Average RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Modulation Mode	N _{TX}	Freq. (MHz)	Conducted (average) output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	3	2412	19.44	19.06	18.94	---	246.783	23.92	30.00
11b	3	2437	22.76	22.66	22.96	---	570.998	27.57	30.00
11b	3	2462	19.51	18.99	19.50	---	257.706	24.11	30.00
11g	3	2412	13.23	13.29	12.87	---	61.732	17.91	30.00
11g	3	2437	21.51	21.68	21.65	---	435.028	26.39	30.00
11g	3	2462	15.10	14.13	14.31	---	85.219	19.31	30.00
HT20	3	2412	12.84	12.69	12.37	---	55.067	17.41	30.00
HT20	3	2437	21.01	20.86	21.07	---	376.020	25.75	30.00
HT20	3	2462	14.55	13.55	13.74	---	74.816	18.74	30.00
HT40	3	2422	9.10	9.03	9.04	---	24.143	13.83	30.00
HT40	3	2437	13.58	13.43	12.64	---	63.198	18.01	30.00
HT40	3	2452	11.26	10.70	10.93	---	37.503	15.74	30.00

3.4 Power Spectral Density

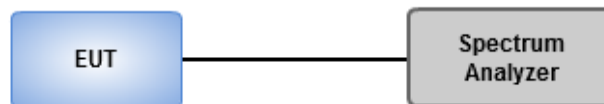
3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

- ☒ Method AVGPS-1(802.11b/g/n HT20)
 1. Set the RBW = 30kHz, VBW = 100kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Employ trace averaging (RMS) mode over a minimum of 100 traces.
 4. Use the peak marker function to determine the maximum amplitude level.
- ☒ Method AVGPS-2 Alternative (802.11n HT40)
 1. Set the RBW = 30kHz, VBW = 100 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Set the sweep time to: $\geq 10 \times (\text{number of measurement points in sweep}) \times (\text{maximum data rate per stream})$.
 4. Perform the measurement over a single sweep.
 5. Use the peak marker function to determine the maximum amplitude level.
 6. Add $10 \log (1/x)$, where x is the duty cycle.

3.4.3 Test Setup

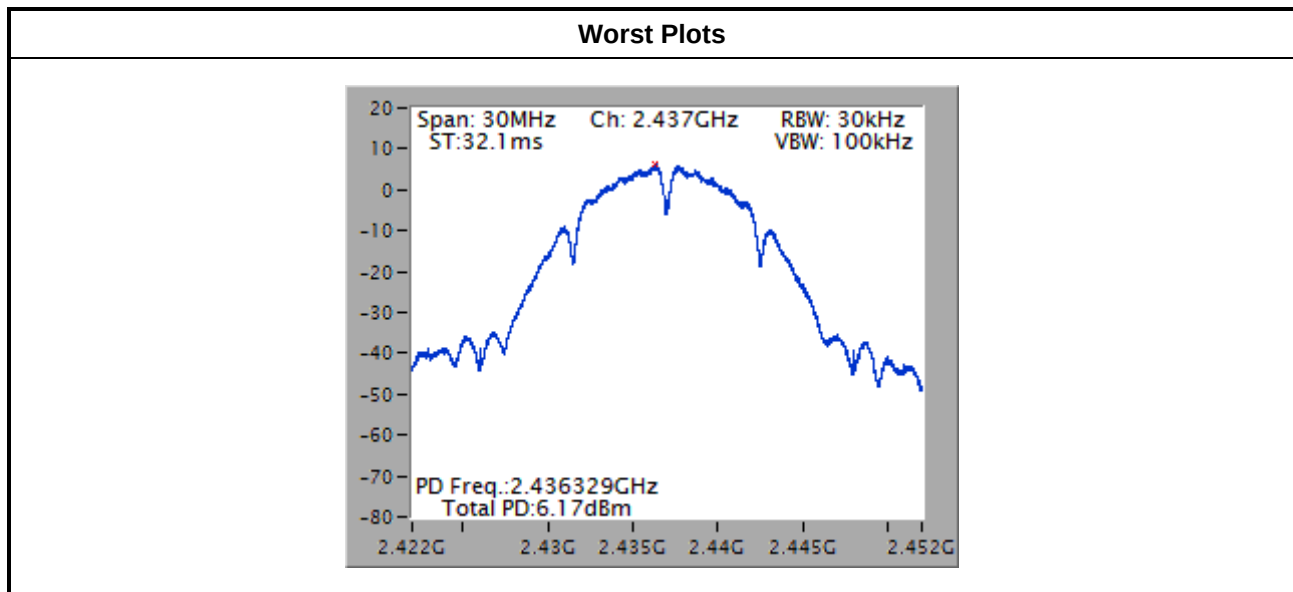


3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	PPSD w/o D.F (dBm/30kHz)	Duty Factor (dB)	PPSD with D.F (dBm/30kHz)	Limit (dBm/3kHz)
11b	3	2412	2.62	0.00	2.62	8.00
11b	3	2437	6.17	0.00	6.17	8.00
11b	3	2462	2.69	0.00	2.69	8.00
11g	3	2412	-6.93	0.00	-6.93	8.00
11g	3	2437	1.40	0.00	1.40	8.00
11g	3	2462	-5.79	0.00	-5.79	8.00
HT20	3	2412	-7.97	0.00	-7.97	8.00
HT20	3	2437	0.26	0.00	0.26	8.00
HT20	3	2462	-6.45	0.00	-6.45	8.00
HT40	3	2422	-14.60	0.14	-14.46	8.00
HT40	3	2437	-10.51	0.14	-10.37	8.00
HT40	3	2452	-12.72	0.14	-12.58	8.00

Note 1: Test result is bin-by-bin summing measured value of each TX port.

Note 2: D.F is duty factor.



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9~90 kHz, 110~490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

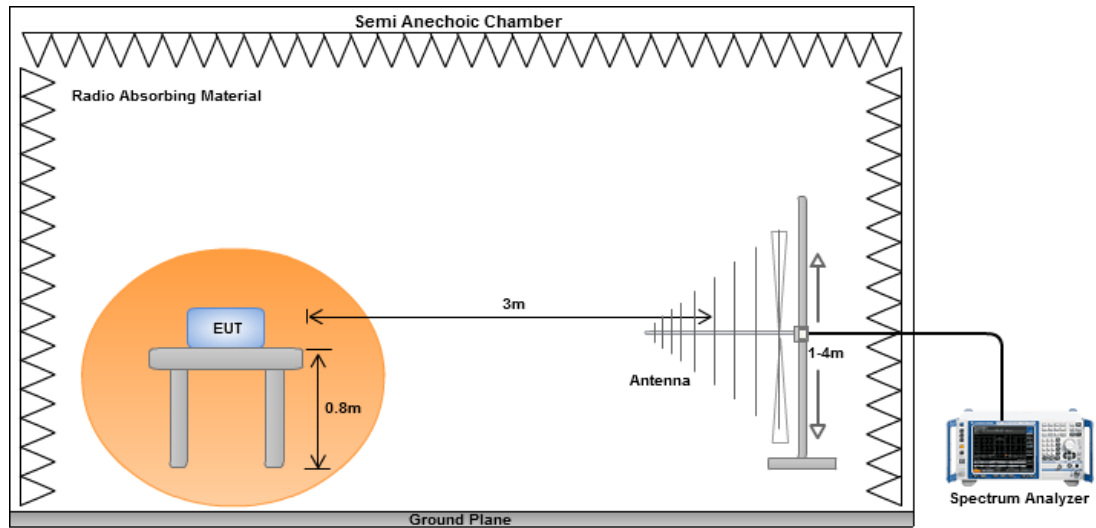
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

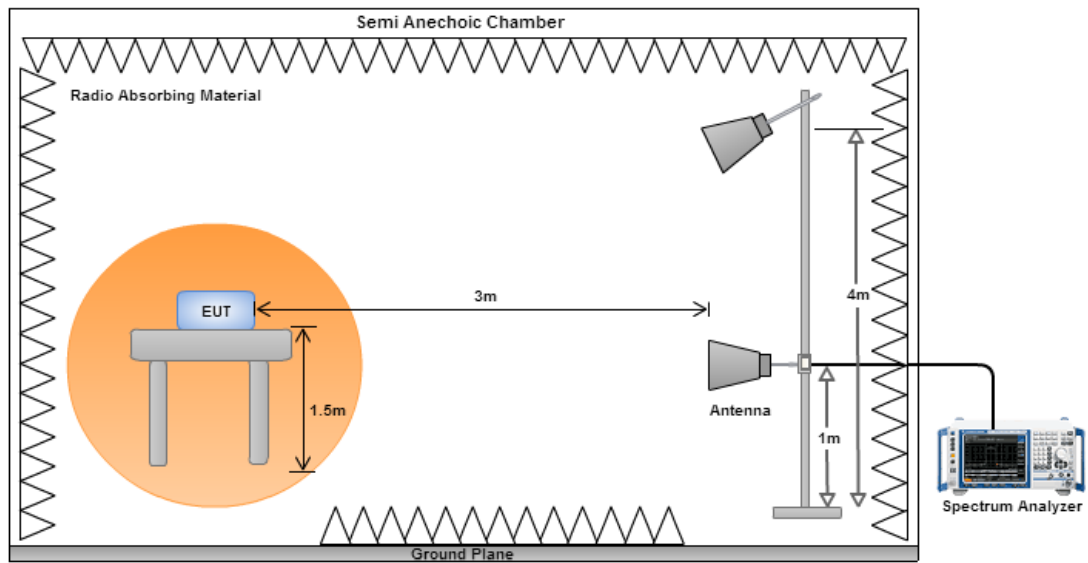
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz

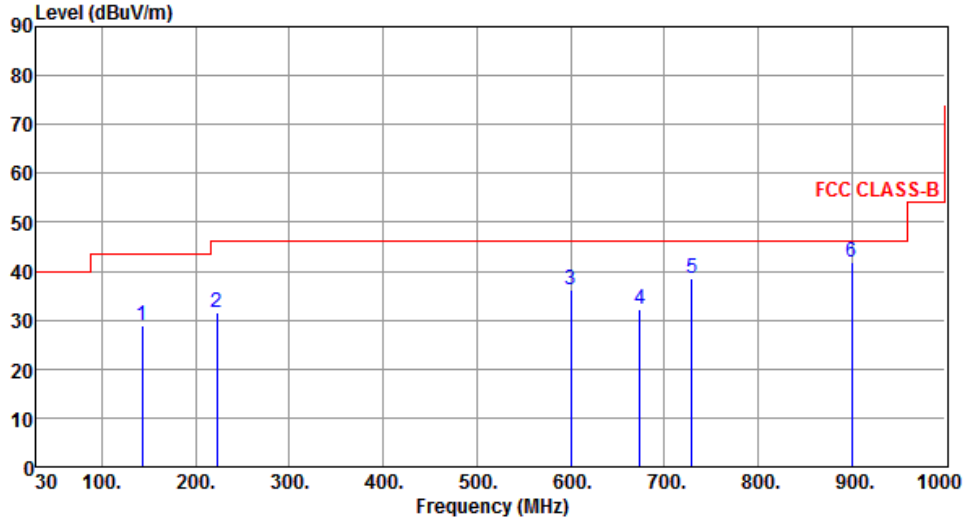


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

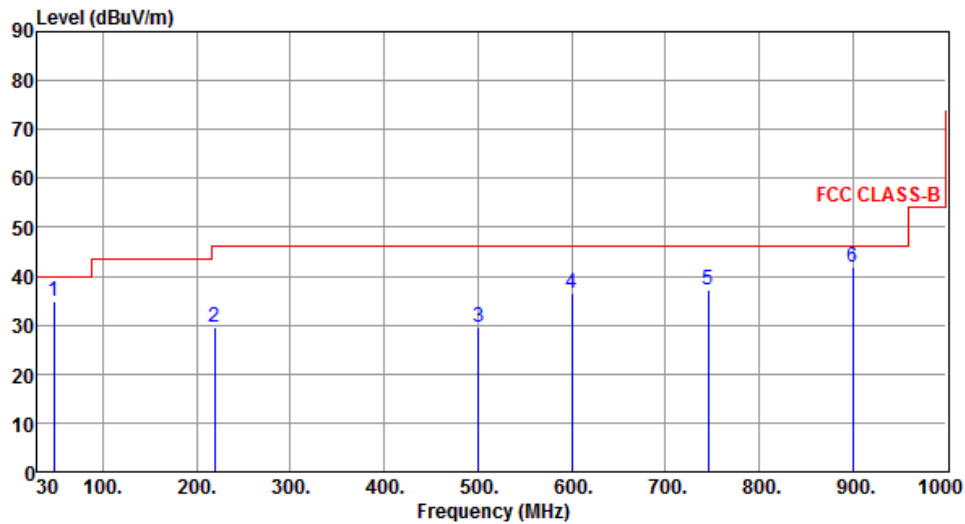


The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 45 dBuV/m from 100 MHz to 1000 MHz, and 55 dBuV/m from 1000 MHz to 10000 MHz. Six measured peaks are labeled with numbers 1 through 6, corresponding to the data in the table below.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	142.52	28.74	43.50	-14.76	45.54	-16.80	Peak	---	---
2	223.03	31.68	46.00	-14.32	50.40	-18.72	Peak	---	---
3	600.36	36.34	46.00	-9.66	45.90	-9.56	Peak	---	---
4	674.08	32.24	46.00	-13.76	40.69	-8.45	Peak	---	---
5	729.37	38.61	46.00	-7.39	46.09	-7.48	Peak	---	---
6	900.09	41.74	46.00	-4.26	47.07	-5.33	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
 Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	47.46	34.73	40.00	-5.27	50.99	-16.26	Peak	---	---
2	219.15	29.57	46.00	-16.43	48.60	-19.03	Peak	---	---
3	500.45	29.58	46.00	-16.42	40.98	-11.40	Peak	---	---
4	600.36	36.43	46.00	-9.57	45.99	-9.56	Peak	---	---
5	745.86	37.17	46.00	-8.83	44.34	-7.17	Peak	---	---
6	900.09	41.80	46.00	-4.20	47.13	-5.33	Peak	---	---

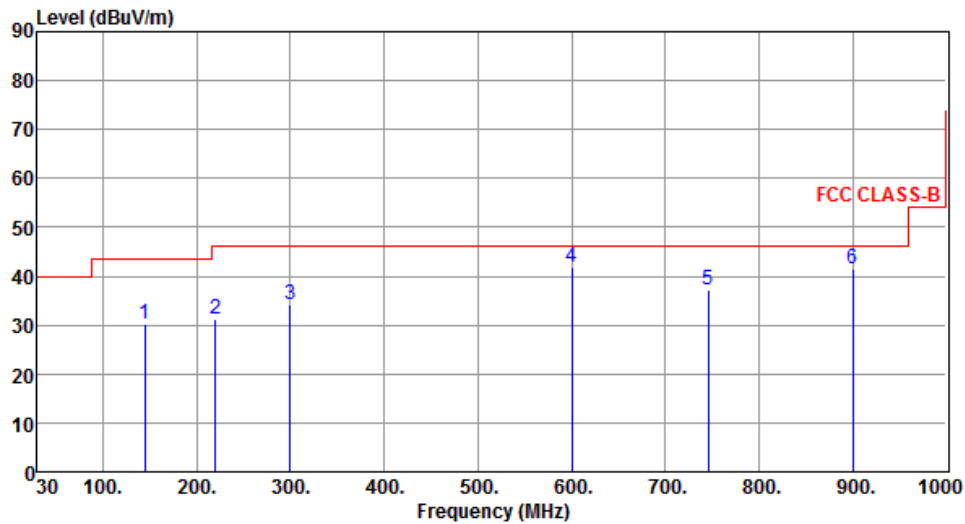
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	144.46	30.14	43.50	-13.36	46.90	-16.76	Peak	---	---
2	220.12	31.22	46.00	-14.78	50.24	-19.02	Peak	---	---
3	299.66	34.21	46.00	-11.79	50.24	-16.03	Peak	---	---
4	600.36	41.98	46.00	-4.02	51.54	-9.56	Peak	---	---
5	745.86	37.18	46.00	-8.82	44.35	-7.17	Peak	---	---
6	900.09	41.37	46.00	-4.63	46.70	-5.33	Peak	---	---

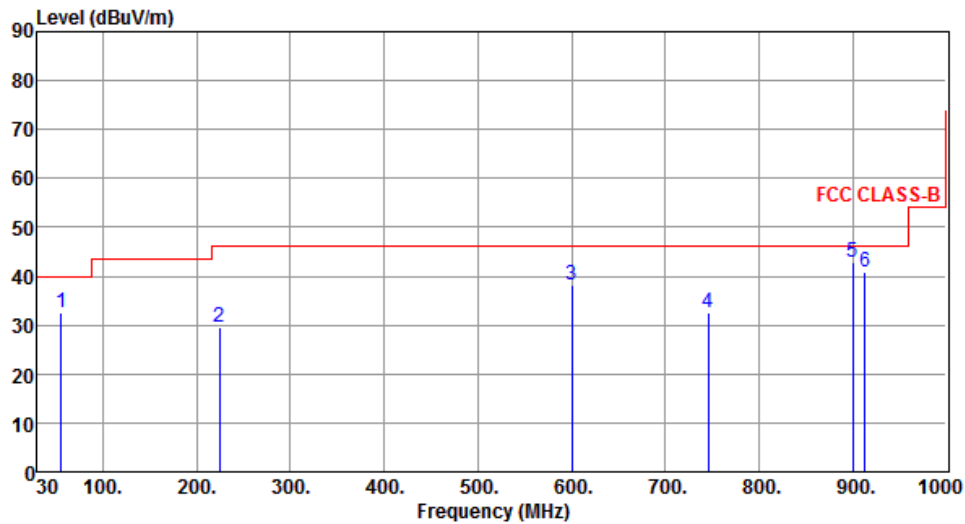
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.22	32.71	40.00	-7.29	49.35	-16.64	Peak	---	---
2	224.00	29.47	46.00	-16.53	48.09	-18.62	Peak	---	---
3	600.36	38.33	46.00	-7.67	47.89	-9.56	Peak	---	---
4	745.86	32.59	46.00	-13.41	39.76	-7.17	Peak	---	---
5	900.09	42.99	46.00	-3.01	48.32	-5.33	QP	111	128
6	912.70	40.83	46.00	-5.17	46.01	-5.18	Peak	---	---

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

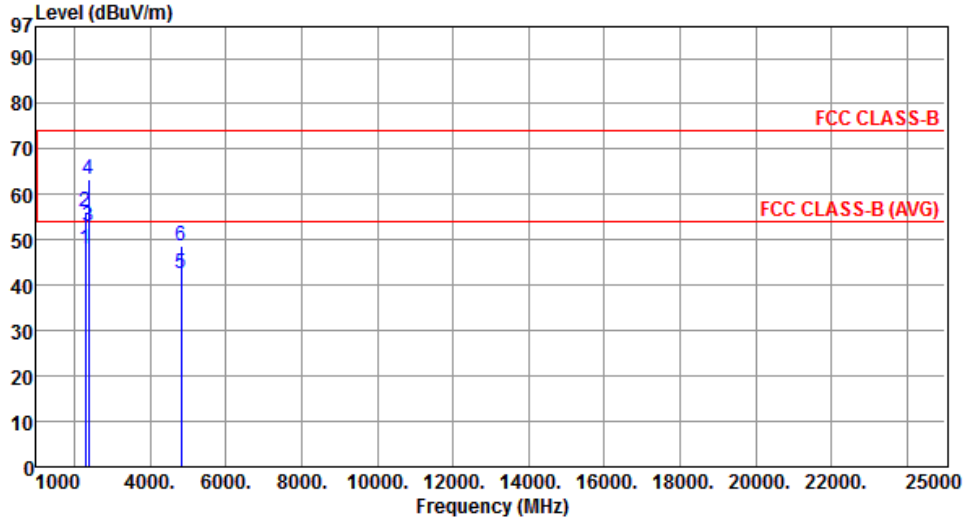
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

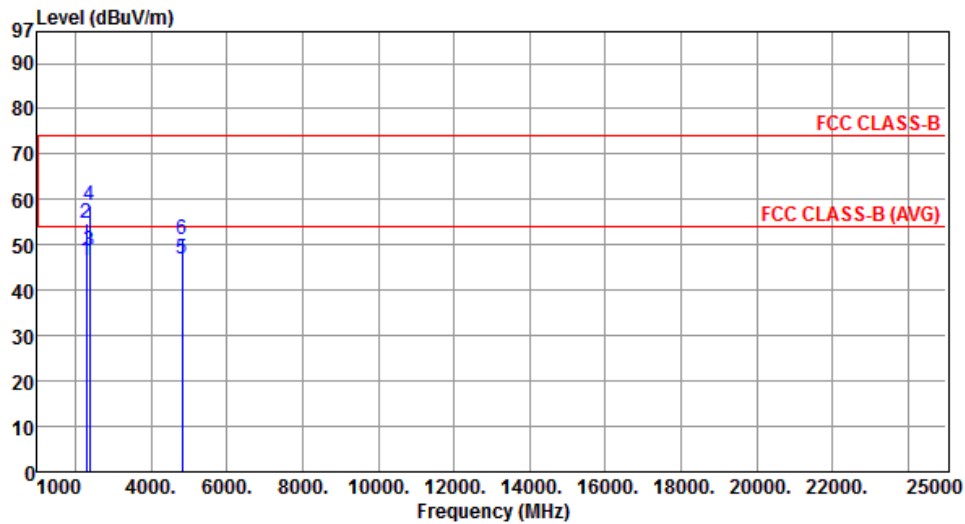
Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.81	54.00	-6.19	51.53	-3.72	Average	233	355
2	2288.00	56.06	74.00	-17.94	59.78	-3.72	Peak	233	355
3	2390.00	52.99	54.00	-1.01	56.33	-3.34	Average	167	61
4	2390.00	63.52	74.00	-10.48	66.86	-3.34	Peak	167	61
5	4824.00	42.77	54.00	-11.23	37.93	4.84	Average	100	142
6	4824.00	48.61	74.00	-25.39	43.77	4.84	Peak	100	142

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



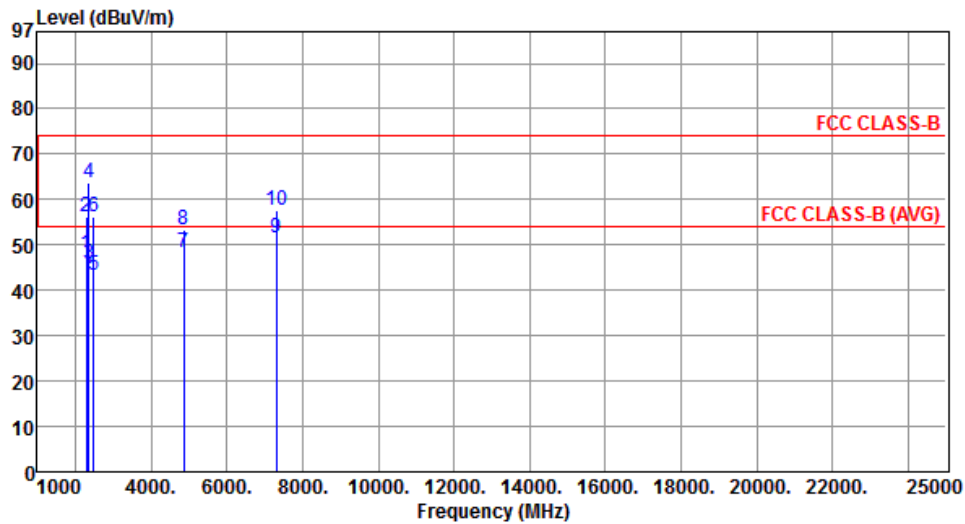
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	46.62	54.00	-7.38	50.34	-3.72	Average	223	12
2	2288.00	54.75	74.00	-19.25	58.47	-3.72	Peak	223	12
3	2390.00	48.72	54.00	-5.28	52.06	-3.34	Average	268	1
4	2390.00	58.63	74.00	-15.37	61.97	-3.34	Peak	268	1
5	4824.00	46.82	54.00	-7.18	41.98	4.84	Average	100	7
6	4824.00	51.26	74.00	-22.74	46.42	4.84	Peak	100	7

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



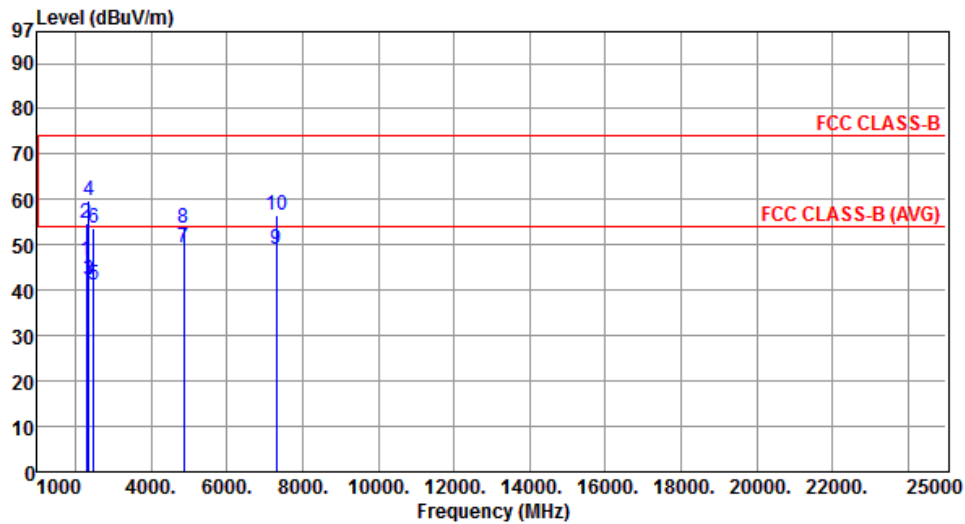
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	48.10	54.00	-5.90	51.82	-3.72	Average	236	354
2	2288.00	56.17	74.00	-17.83	59.89	-3.72	Peak	236	354
3	2360.00	45.75	54.00	-8.25	49.21	-3.46	Average	174	65
4	2360.00	63.69	74.00	-10.31	67.15	-3.46	Peak	174	65
5	2483.50	43.44	54.00	-10.56	46.34	-2.90	Average	174	65
6	2483.50	56.23	74.00	-17.77	59.13	-2.90	Peak	174	65
7	4874.00	48.37	54.00	-5.63	43.40	4.97	Average	145	107
8	4874.00	53.16	74.00	-20.84	48.19	4.97	Peak	145	107
9	7311.00	51.40	54.00	-2.60	41.87	9.53	Average	115	85
10	7311.00	57.79	74.00	-16.21	48.26	9.53	Peak	115	85

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



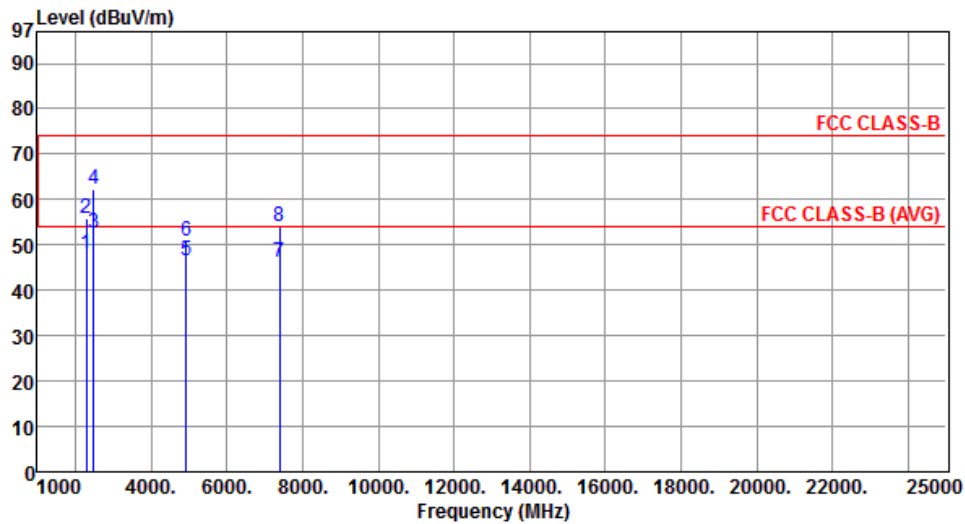
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	46.38	54.00	-7.62	50.10	-3.72	Average	207	0
2	2288.00	54.83	74.00	-19.17	58.55	-3.72	Peak	207	0
3	2360.00	42.30	54.00	-11.70	45.76	-3.46	Average	265	353
4	2360.00	59.90	74.00	-14.10	63.36	-3.46	Peak	265	353
5	2483.50	41.01	54.00	-12.99	43.91	-2.90	Average	265	353
6	2483.50	53.61	74.00	-20.39	56.51	-2.90	Peak	265	353
7	4874.00	49.22	54.00	-4.78	44.25	4.97	Average	100	310
8	4874.00	53.68	74.00	-20.32	48.71	4.97	Peak	100	310
9	7311.00	49.04	54.00	-4.96	39.51	9.53	Average	303	181
10	7311.00	56.44	74.00	-17.56	46.91	9.53	Peak	303	181

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



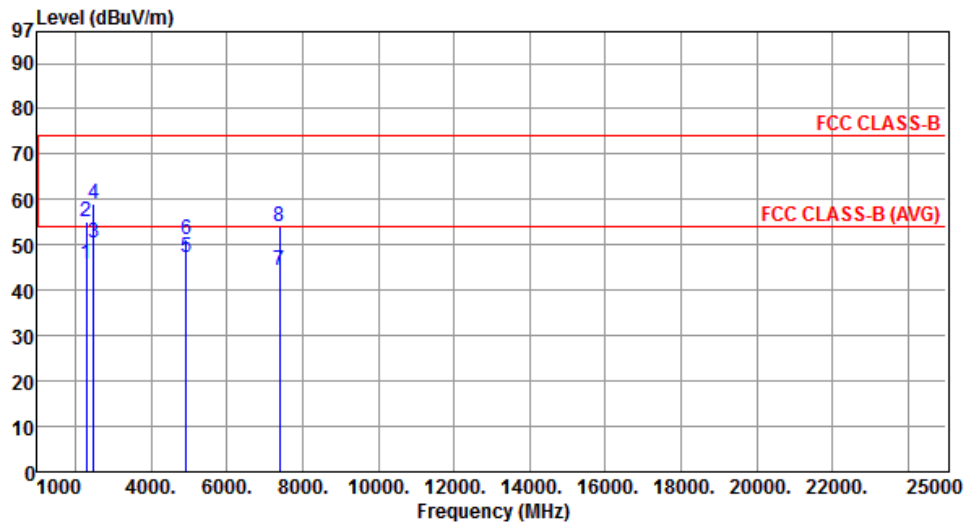
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.81	54.00	-6.19	51.53	-3.72	Average	236	348
2	2288.00	55.75	74.00	-18.25	59.47	-3.72	Peak	236	348
3	2483.50	52.72	54.00	-1.28	55.62	-2.90	Average	184	58
4	2483.50	62.27	74.00	-11.73	65.17	-2.90	Peak	184	58
5	4924.00	46.36	54.00	-7.64	41.25	5.11	Average	153	106
6	4924.00	50.96	74.00	-23.04	45.85	5.11	Peak	153	106
7	7386.00	46.34	54.00	-7.66	36.67	9.67	Average	130	80
8	7386.00	54.06	74.00	-19.94	44.39	9.67	Peak	130	80

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



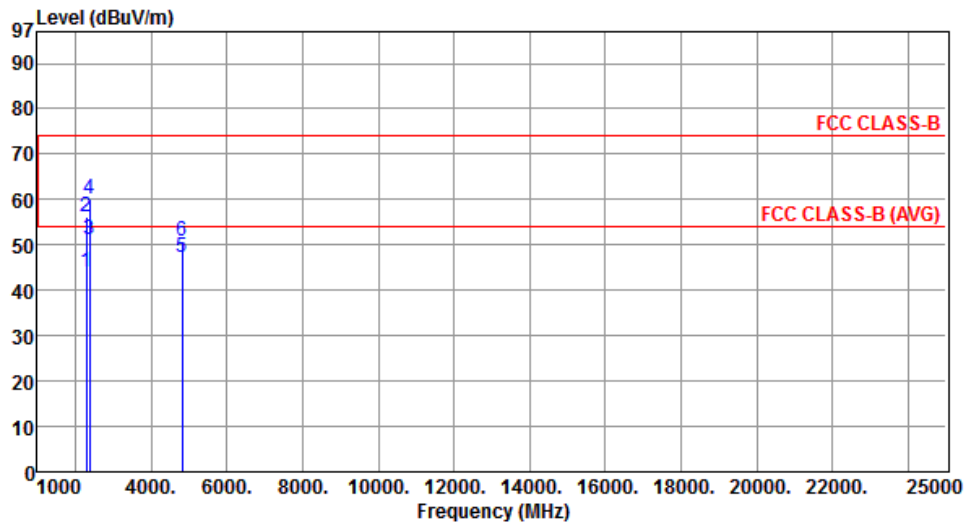
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	45.84	54.00	-8.16	49.56	-3.72	Average	253	341
2	2288.00	55.24	74.00	-18.76	58.96	-3.72	Peak	253	341
3	2483.50	50.31	54.00	-3.69	53.21	-2.90	Average	206	347
4	2483.50	58.93	74.00	-15.07	61.83	-2.90	Peak	206	347
5	4924.00	47.25	54.00	-6.75	42.14	5.11	Average	100	6
6	4924.00	51.26	74.00	-22.74	46.15	5.11	Peak	100	6
7	7386.00	44.27	54.00	-9.73	34.60	9.67	Average	140	201
8	7386.00	54.10	74.00	-19.90	44.43	9.67	Peak	140	201

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	2



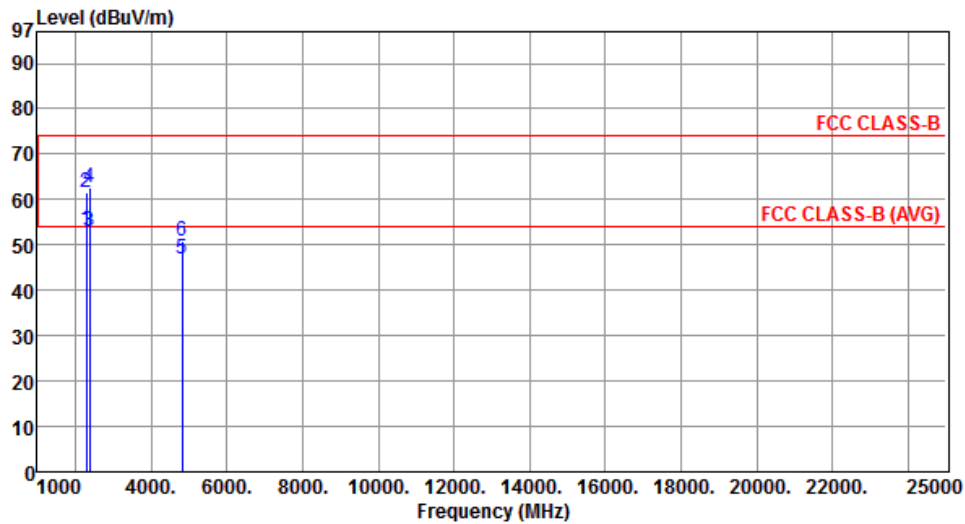
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	44.17	54.00	-9.83	47.89	-3.72	Average	156	289
2	2288.00	56.12	74.00	-17.88	59.84	-3.72	Peak	156	289
3	2390.00	51.24	54.00	-2.76	54.58	-3.34	Average	156	311
4	2390.00	60.29	74.00	-13.71	63.63	-3.34	Peak	156	311
5	4824.00	47.10	54.00	-6.90	42.26	4.84	Average	218	11
6	4824.00	50.87	74.00	-23.13	46.03	4.84	Peak	218	11

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	2



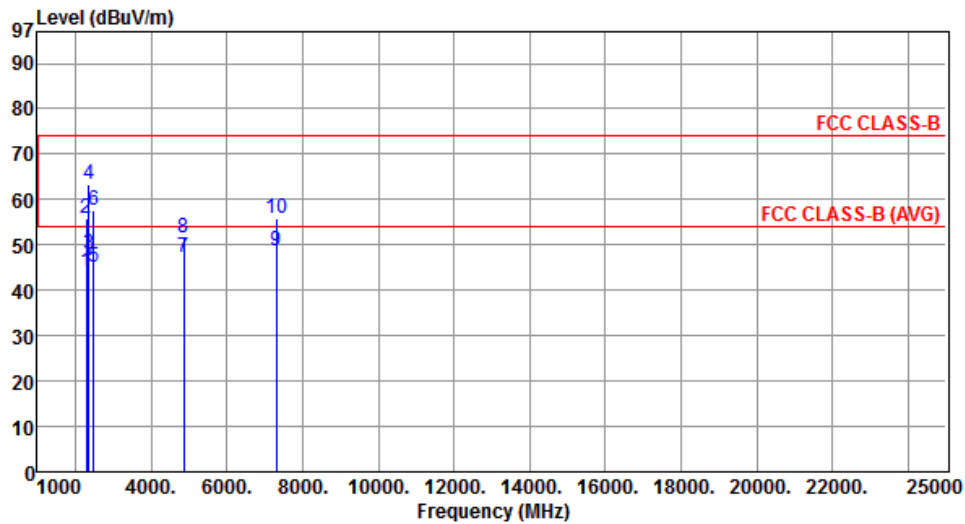
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	53.27	54.00	-0.73	56.99	-3.72	Average	210	6
2	2288.00	61.51	74.00	-12.49	65.23	-3.72	Peak	210	6
3	2390.00	52.91	54.00	-1.09	56.25	-3.34	Average	172	23
4	2390.00	62.54	74.00	-11.46	65.88	-3.34	Peak	172	23
5	4824.00	46.74	54.00	-7.26	41.90	4.84	Average	219	52
6	4824.00	50.80	74.00	-23.20	45.96	4.84	Peak	219	52

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



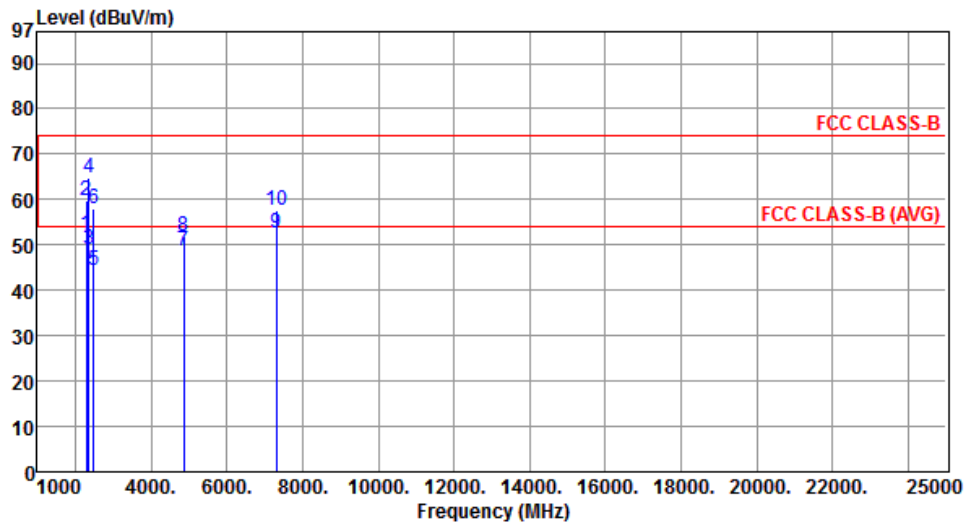
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.89	54.00	-10.11	47.61	-3.72	Average	155	282
2	2288.00	55.81	74.00	-18.19	59.53	-3.72	Peak	155	282
3	2360.00	47.82	54.00	-6.18	51.28	-3.46	Average	248	312
4	2360.00	63.50	74.00	-10.50	66.96	-3.46	Peak	248	312
5	2483.50	45.23	54.00	-8.77	48.13	-2.90	Average	248	312
6	2483.50	57.67	74.00	-16.33	60.57	-2.90	Peak	248	312
7	4874.00	47.32	54.00	-6.68	42.35	4.97	Average	199	45
8	4874.00	51.70	74.00	-22.30	46.73	4.97	Peak	199	45
9	7311.00	48.53	54.00	-5.47	39.00	9.53	Average	222	252
10	7311.00	55.95	74.00	-18.05	46.42	9.53	Peak	222	252

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



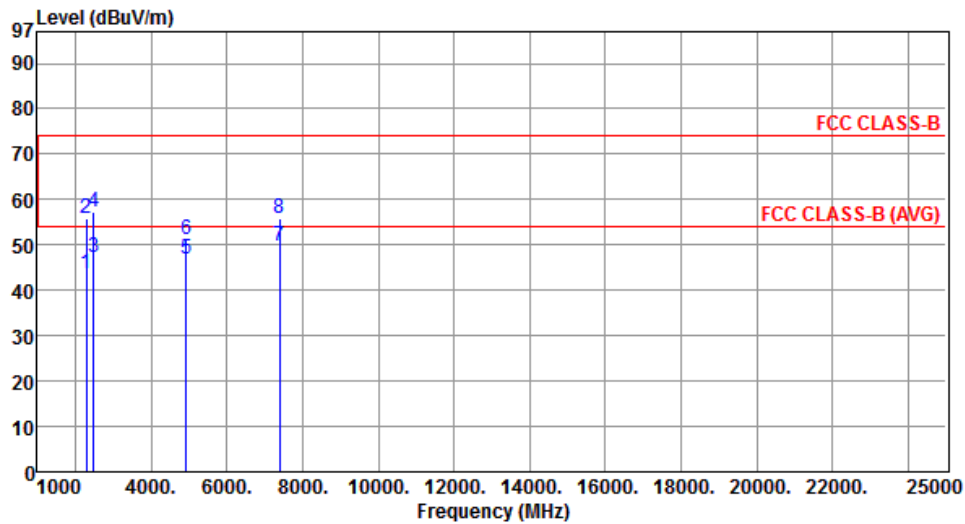
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.36	54.00	-1.64	56.08	-3.72	Average	211	365
2	2288.00	59.90	74.00	-14.10	63.62	-3.72	Peak	211	365
3	2360.00	48.90	54.00	-5.10	52.36	-3.46	Average	251	352
4	2360.00	64.86	74.00	-9.14	68.32	-3.46	Peak	251	352
5	2483.50	44.51	54.00	-9.49	47.41	-2.90	Average	251	352
6	2483.50	57.99	74.00	-16.01	60.89	-2.90	Peak	251	352
7	4874.00	48.57	54.00	-5.43	43.60	4.97	Average	100	35
8	4874.00	51.96	74.00	-22.04	46.99	4.97	Peak	100	35
9	7311.00	52.61	54.00	-1.39	43.08	9.53	Average	227	155
10	7311.00	57.74	74.00	-16.26	48.21	9.53	Peak	227	155

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



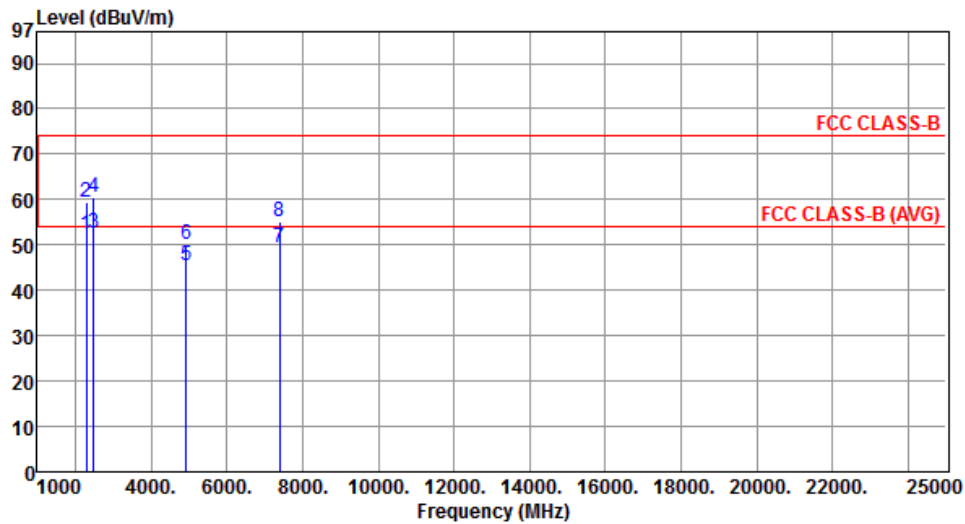
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.63	54.00	-10.37	47.35	-3.72	Average	155	287
2	2288.00	55.75	74.00	-18.25	59.47	-3.72	Peak	155	287
3	2483.50	47.22	54.00	-6.78	50.12	-2.90	Average	296	36
4	2483.50	57.34	74.00	-16.66	60.24	-2.90	Peak	296	36
5	4924.00	47.07	54.00	-6.93	41.96	5.11	Average	237	8
6	4924.00	51.17	74.00	-22.83	46.06	5.11	Peak	237	8
7	7386.00	49.72	54.00	-4.28	40.05	9.67	Average	248	326
8	7386.00	55.67	74.00	-18.33	46.00	9.67	Peak	248	326

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.08	54.00	-1.92	55.80	-3.72	Average	213	370
2	2288.00	59.44	74.00	-14.56	63.16	-3.72	Peak	213	370
3	2483.50	52.51	54.00	-1.49	55.41	-2.90	Average	175	23
4	2483.50	60.40	74.00	-13.60	63.30	-2.90	Peak	175	23
5	4924.00	45.56	54.00	-8.44	40.45	5.11	Average	120	41
6	4924.00	49.98	74.00	-24.02	44.87	5.11	Peak	120	41
7	7386.00	49.22	54.00	-4.78	39.55	9.67	Average	100	317
8	7386.00	55.12	74.00	-18.88	45.45	9.67	Peak	100	317

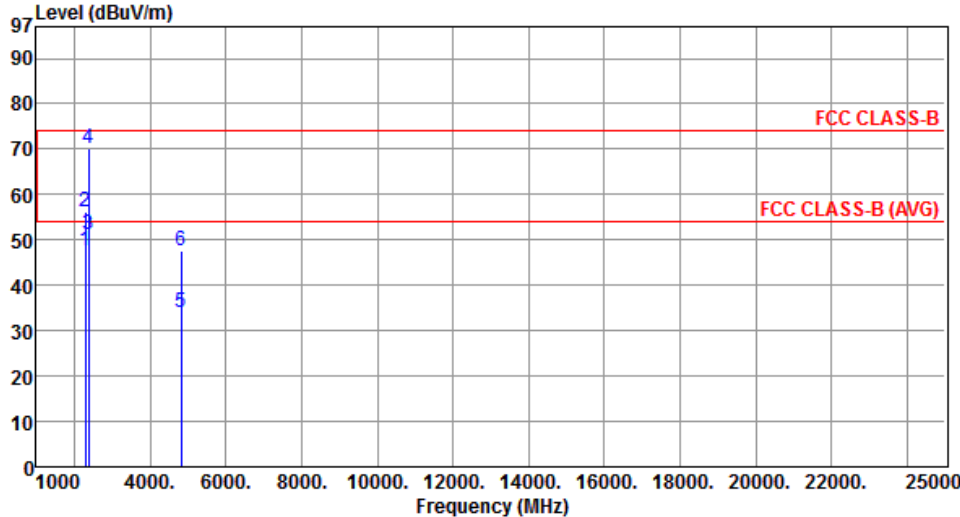
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

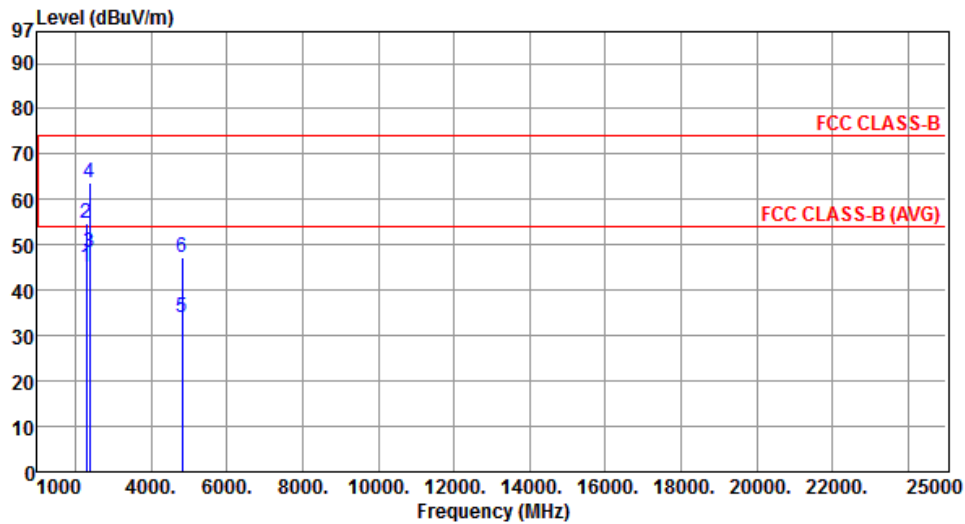
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.44	54.00	-6.56	51.16	-3.72	Average	234	351
2	2288.00	56.15	74.00	-17.85	59.87	-3.72	Peak	234	351
3	2390.00	51.33	54.00	-2.67	54.67	-3.34	Average	181	308
4	2390.00	70.08	74.00	-3.92	73.42	-3.34	Peak	181	308
5	4824.00	34.00	54.00	-20.00	29.16	4.84	Average	100	251
6	4824.00	47.65	74.00	-26.35	42.81	4.84	Peak	100	251

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



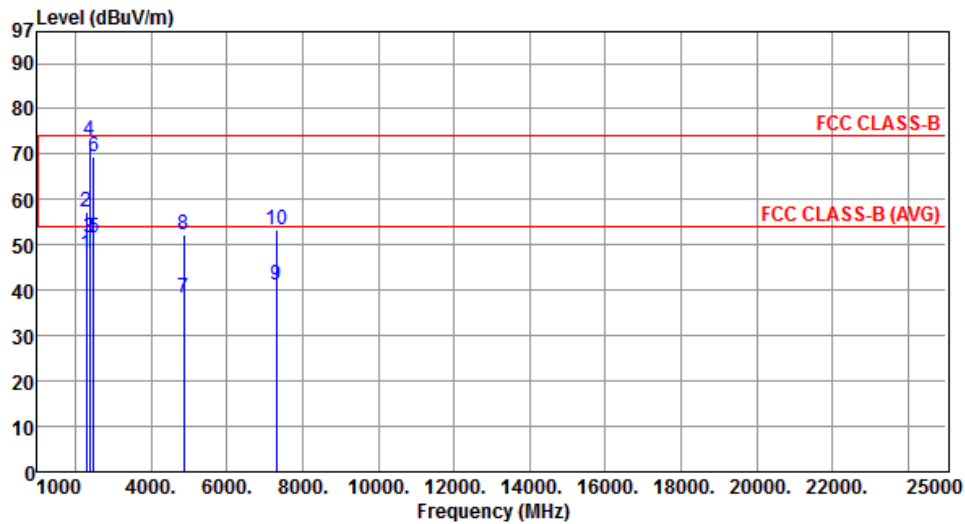
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	44.93	54.00	-9.07	48.65	-3.72	Average	273	7
2	2288.00	54.75	74.00	-19.25	58.47	-3.72	Peak	273	7
3	2390.00	48.23	54.00	-5.77	51.57	-3.34	Average	273	7
4	2390.00	63.80	74.00	-10.20	67.14	-3.34	Peak	273	7
5	4824.00	34.17	54.00	-19.83	29.33	4.84	Average	100	163
6	4824.00	47.19	74.00	-26.81	42.35	4.84	Peak	100	163

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



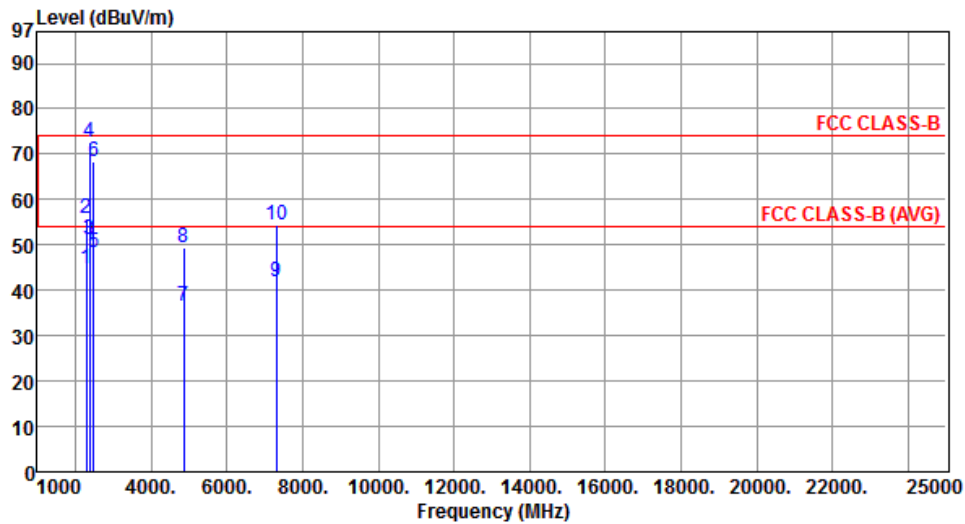
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.92	54.00	-6.08	51.64	-3.72	Average	173	60
2	2288.00	57.33	74.00	-16.67	61.05	-3.72	Peak	173	60
3	2390.00	51.52	54.00	-2.48	54.86	-3.34	Average	173	60
4	2390.00	72.87	74.00	-1.13	76.21	-3.34	Peak	173	60
5	2483.50	51.48	54.00	-2.52	54.38	-2.90	Average	173	60
6	2483.50	69.45	74.00	-4.55	72.35	-2.90	Peak	173	60
7	4874.00	38.26	54.00	-15.74	33.29	4.97	Average	100	16
8	4874.00	52.14	74.00	-21.86	47.17	4.97	Peak	100	16
9	7311.00	41.01	54.00	-12.99	31.48	9.53	Average	182	84
10	7311.00	53.46	74.00	-20.54	43.93	9.53	Peak	182	84

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



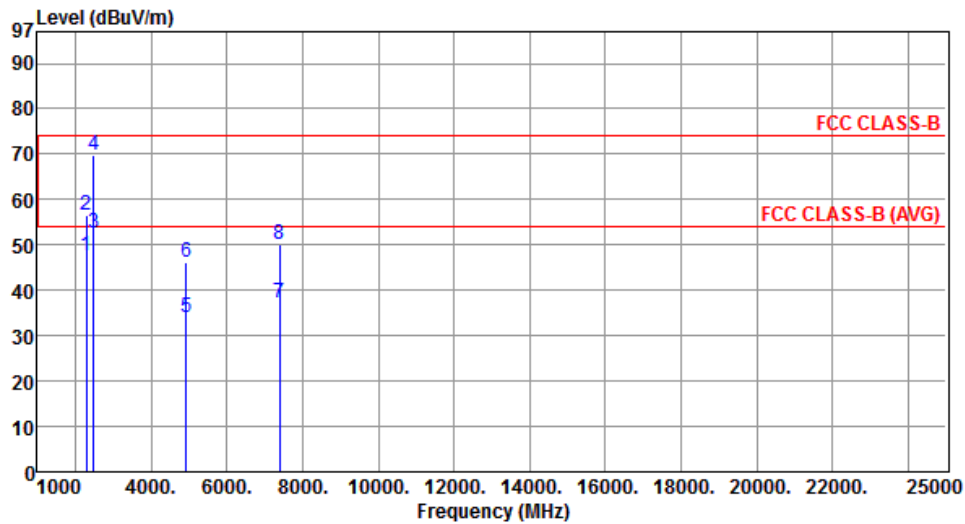
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	44.79	54.00	-9.21	48.51	-3.72	Average	274	340
2	2288.00	55.85	74.00	-18.15	59.57	-3.72	Peak	274	340
3	2390.00	51.18	54.00	-2.82	54.52	-3.34	Average	274	340
4	2390.00	72.68	74.00	-1.32	76.02	-3.34	Peak	274	340
5	2483.50	48.31	54.00	-5.69	51.21	-2.90	Average	274	340
6	2483.50	68.22	74.00	-5.78	71.12	-2.90	Peak	274	340
7	4874.00	36.43	54.00	-17.57	31.46	4.97	Average	132	150
8	4874.00	49.23	74.00	-24.77	44.26	4.97	Peak	132	150
9	7311.00	42.01	54.00	-11.99	32.48	9.53	Average	176	216
10	7311.00	54.36	74.00	-19.64	44.83	9.53	Peak	176	216

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



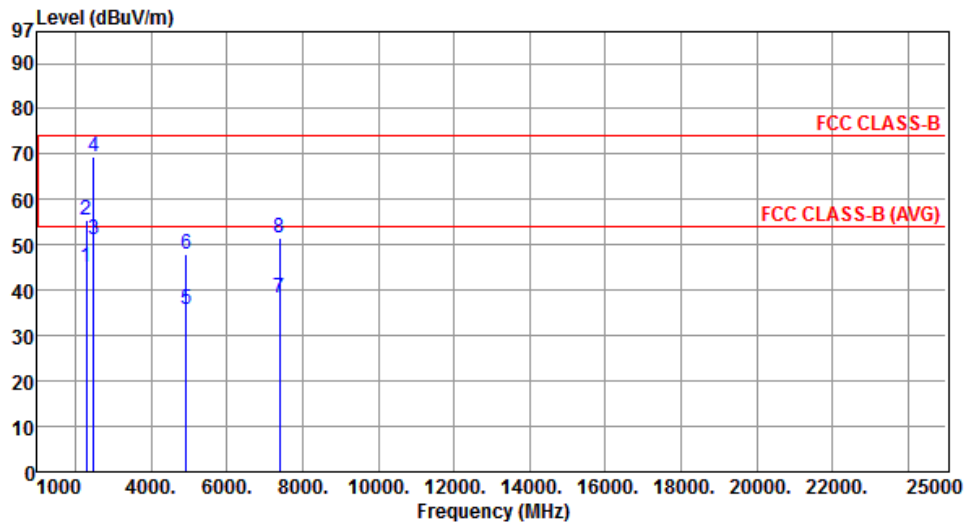
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.52	54.00	-6.48	51.24	-3.72	Average	174	65
2	2288.00	56.41	74.00	-17.59	60.13	-3.72	Peak	174	65
3	2483.50	52.69	54.00	-1.31	55.59	-2.90	Average	174	65
4	2483.50	69.96	74.00	-4.04	72.86	-2.90	Peak	174	65
5	4924.00	33.84	54.00	-20.16	28.73	5.11	Average	129	178
6	4924.00	46.34	74.00	-27.66	41.23	5.11	Peak	129	178
7	7386.00	37.28	54.00	-16.72	27.61	9.67	Average	100	216
8	7386.00	50.03	74.00	-23.97	40.36	9.67	Peak	100	216

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



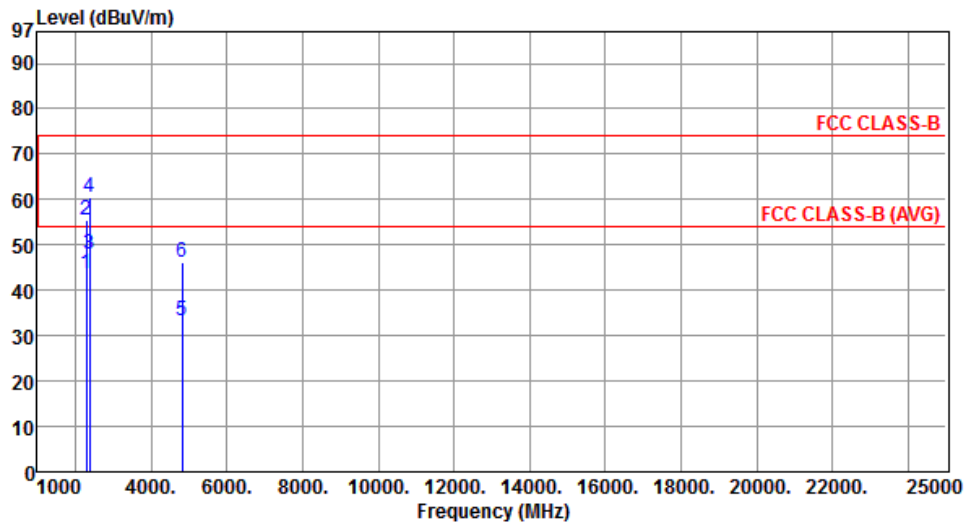
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	45.24	54.00	-8.76	48.96	-3.72	Average	216	333
2	2288.00	55.41	74.00	-18.59	59.13	-3.72	Peak	216	333
3	2483.50	51.26	54.00	-2.74	54.16	-2.90	Average	317	333
4	2483.50	69.51	74.00	-4.49	72.41	-2.90	Peak	317	333
5	4924.00	35.68	54.00	-18.32	30.57	5.11	Average	100	15
6	4924.00	47.98	74.00	-26.02	42.87	5.11	Peak	100	15
7	7386.00	38.28	54.00	-15.72	28.61	9.67	Average	155	316
8	7386.00	51.63	74.00	-22.37	41.96	9.67	Peak	155	316

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	2



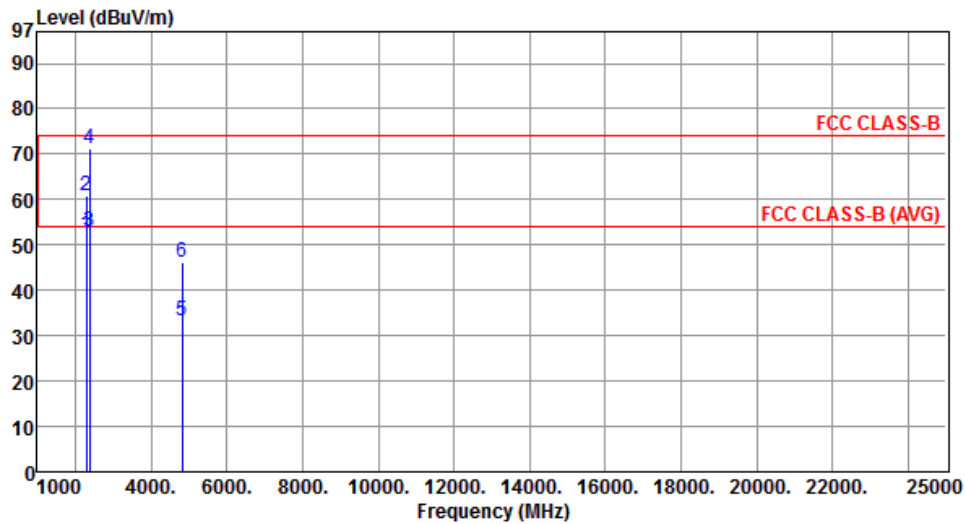
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.52	54.00	-10.48	47.24	-3.72	Average	152	276
2	2288.00	55.63	74.00	-18.37	59.35	-3.72	Peak	152	276
3	2390.00	47.89	54.00	-6.11	51.23	-3.34	Average	226	300
4	2390.00	60.50	74.00	-13.50	63.84	-3.34	Peak	226	300
5	4824.00	33.29	54.00	-20.71	28.45	4.84	Average	155	263
6	4824.00	46.19	74.00	-27.81	41.35	4.84	Peak	155	263

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	2



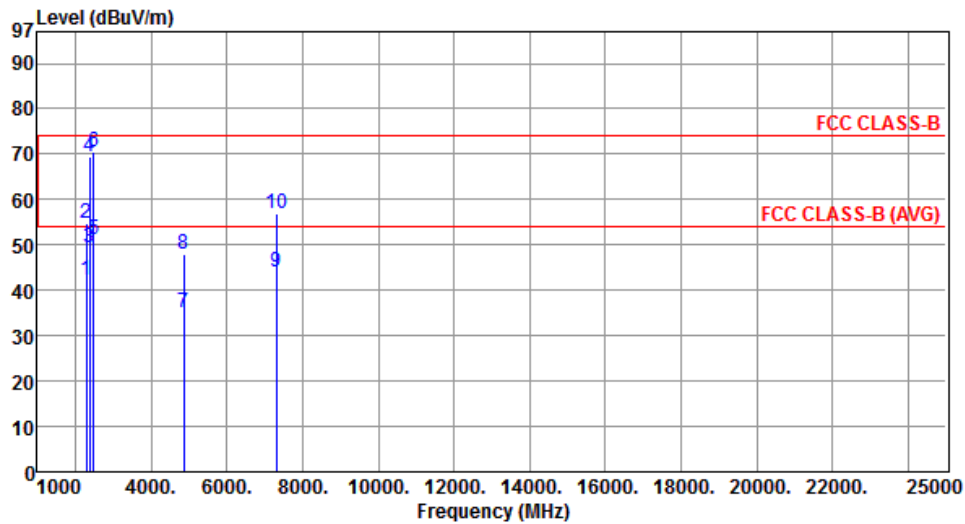
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.30	54.00	-1.70	56.02	-3.72	Average	221	6
2	2288.00	60.92	74.00	-13.08	64.64	-3.72	Peak	221	6
3	2390.00	52.94	54.00	-1.06	56.28	-3.34	Average	226	15
4	2390.00	71.12	74.00	-2.88	74.46	-3.34	Peak	226	15
5	4824.00	33.27	54.00	-20.73	28.43	4.84	Average	168	35
6	4824.00	46.16	74.00	-27.84	41.32	4.84	Peak	168	35

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



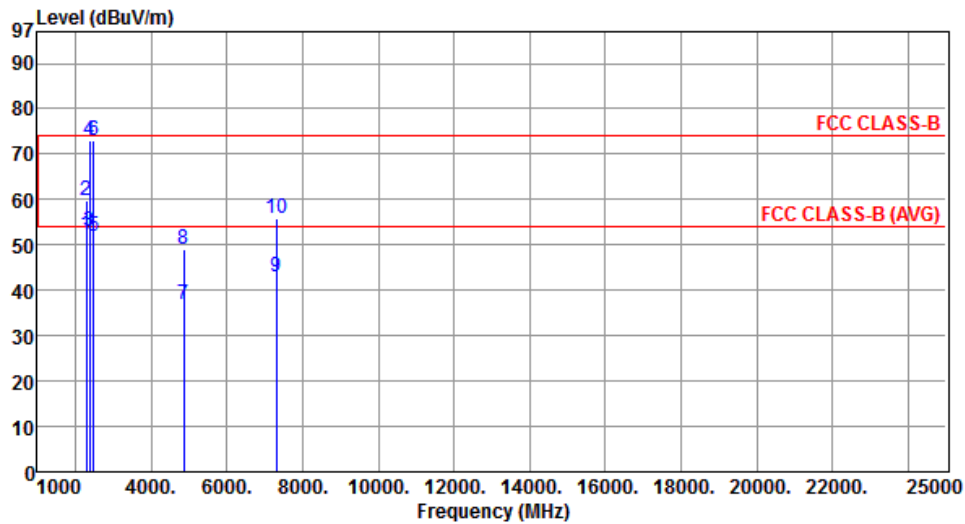
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	42.07	54.00	-11.93	45.79	-3.72	Average	216	300
2	2288.00	54.77	74.00	-19.23	58.49	-3.72	Peak	216	300
3	2390.00	49.24	54.00	-4.76	52.58	-3.34	Average	232	302
4	2390.00	69.35	74.00	-4.65	72.69	-3.34	Peak	232	302
5	2483.50	51.22	54.00	-2.78	54.12	-2.90	Average	232	302
6	2483.50	70.54	74.00	-3.46	73.44	-2.90	Peak	232	302
7	4874.00	34.95	54.00	-19.05	29.98	4.97	Average	241	37
8	4874.00	47.98	74.00	-26.02	43.01	4.97	Peak	241	37
9	7311.00	43.98	54.00	-10.02	34.45	9.53	Average	238	327
10	7311.00	57.06	74.00	-16.94	47.53	9.53	Peak	238	327

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



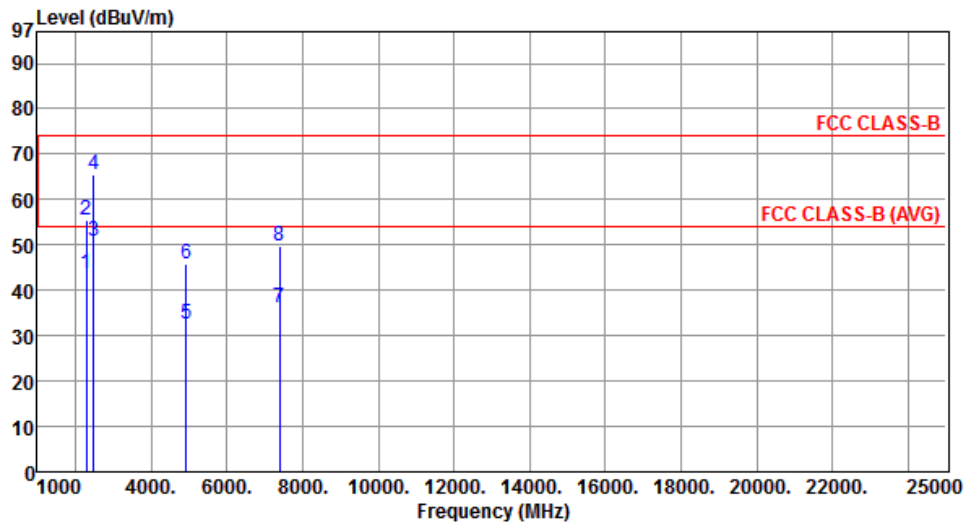
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.41	54.00	-1.59	56.13	-3.72	Average	276	6
2	2288.00	59.76	74.00	-14.24	63.48	-3.72	Peak	276	6
3	2390.00	52.98	54.00	-1.02	56.32	-3.34	Average	270	6
4	2390.00	73.00	74.00	-1.00	76.34	-3.34	Peak	270	6
5	2483.50	51.86	54.00	-2.14	54.76	-2.90	Average	270	6
6	2483.50	72.92	74.00	-1.08	75.82	-2.90	Peak	270	6
7	4874.00	36.86	54.00	-17.14	31.89	4.97	Average	140	171
8	4874.00	48.88	74.00	-25.12	43.91	4.97	Peak	140	171
9	7311.00	42.87	54.00	-11.13	33.34	9.53	Average	227	140
10	7311.00	55.88	74.00	-18.12	46.35	9.53	Peak	227	140

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



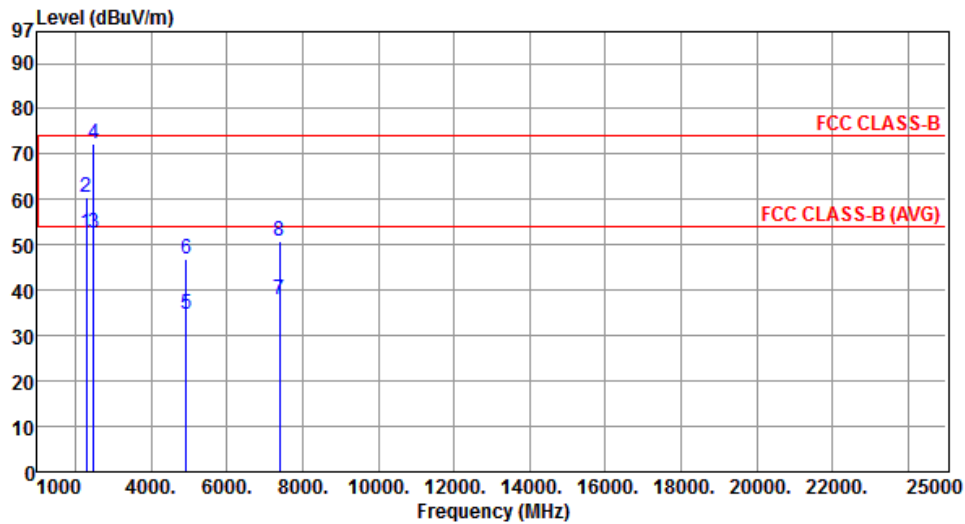
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.63	54.00	-10.37	47.35	-3.72	Average	178	275
2	2288.00	55.55	74.00	-18.45	59.27	-3.72	Peak	178	275
3	2483.50	50.76	54.00	-3.24	53.66	-2.90	Average	217	301
4	2483.50	65.33	74.00	-8.67	68.23	-2.90	Peak	217	301
5	4924.00	32.64	54.00	-21.36	27.53	5.11	Average	155	138
6	4924.00	45.69	74.00	-28.31	40.58	5.11	Peak	155	138
7	7386.00	36.29	54.00	-17.71	26.62	9.67	Average	175	6
8	7386.00	49.68	74.00	-24.32	40.01	9.67	Peak	175	6

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.63	54.00	-1.37	56.35	-3.72	Average	210	2
2	2288.00	60.64	74.00	-13.36	64.36	-3.72	Peak	210	2
3	2483.50	52.73	54.00	-1.27	55.63	-2.90	Average	306	325
4	2483.50	72.14	74.00	-1.86	75.04	-2.90	Peak	306	325
5	4924.00	34.77	54.00	-19.23	29.66	5.11	Average	173	178
6	4924.00	46.89	74.00	-27.11	41.78	5.11	Peak	173	178
7	7386.00	37.83	54.00	-16.17	28.16	9.67	Average	153	162
8	7386.00	50.89	74.00	-23.11	41.22	9.67	Peak	153	162

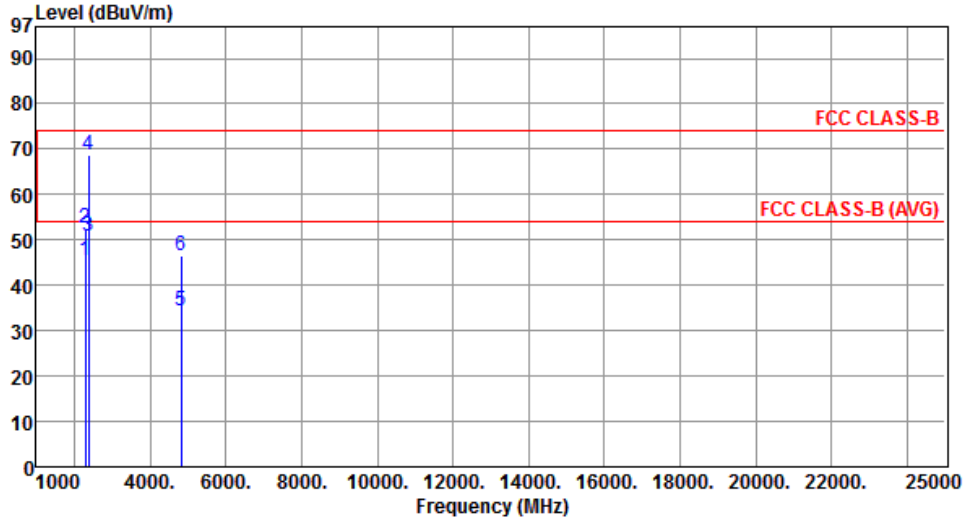
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

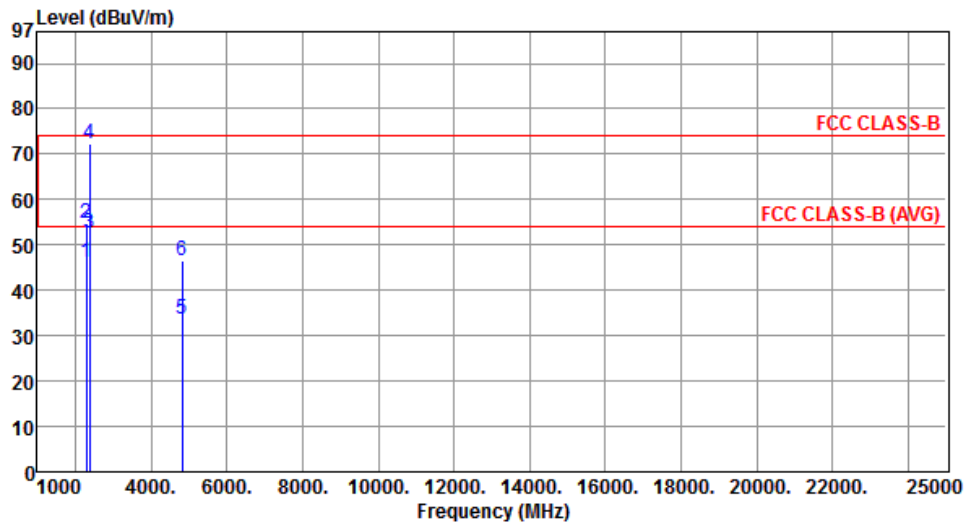
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	45.34	54.00	-8.66	49.06	-3.72	Average	215	332
2	2288.00	52.54	74.00	-21.46	56.26	-3.72	Peak	215	332
3	2390.00	50.86	54.00	-3.14	54.20	-3.34	Average	252	332
4	2390.00	68.84	74.00	-5.16	72.18	-3.34	Peak	252	332
5	4824.00	34.25	54.00	-19.75	29.41	4.84	Average	100	163
6	4824.00	46.40	74.00	-27.60	41.56	4.84	Peak	100	163

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1



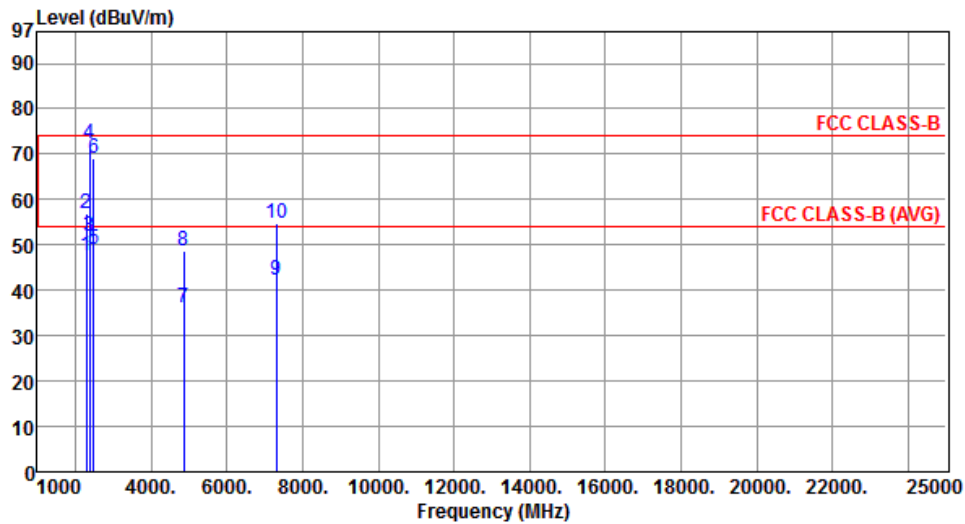
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	46.11	54.00	-7.89	49.83	-3.72	Average	150	62
2	2288.00	54.85	74.00	-19.15	58.57	-3.72	Peak	150	62
3	2390.00	52.68	54.00	-1.32	56.02	-3.34	Average	195	52
4	2390.00	72.18	74.00	-1.82	75.52	-3.34	Peak	195	52
5	4824.00	33.50	54.00	-20.50	28.66	4.84	Average	100	43
6	4824.00	46.42	74.00	-27.58	41.58	4.84	Peak	100	43

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



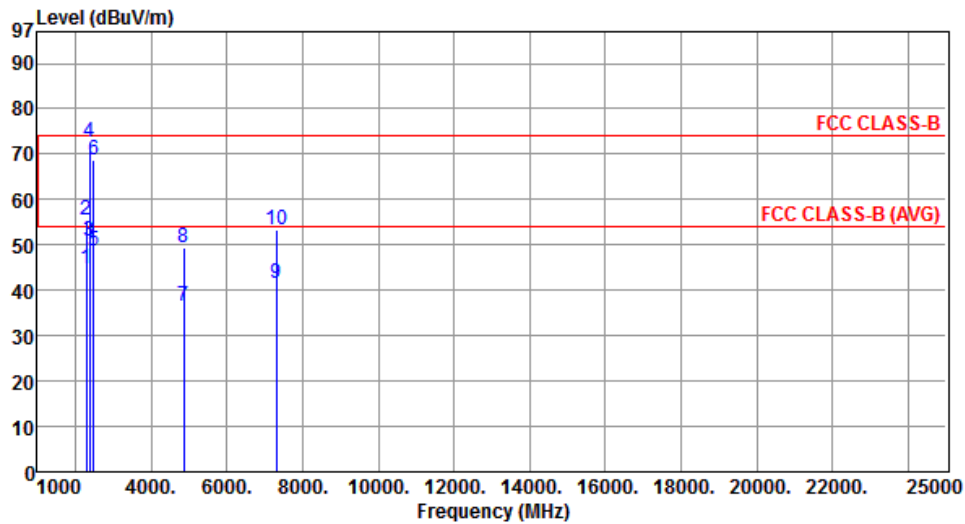
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.71	54.00	-6.29	51.43	-3.72	Average	216	79
2	2288.00	56.81	74.00	-17.19	60.53	-3.72	Peak	216	79
3	2390.00	51.92	54.00	-2.08	55.26	-3.34	Average	182	79
4	2390.00	72.44	74.00	-1.56	75.78	-3.34	Peak	182	79
5	2483.50	48.93	54.00	-5.07	51.83	-2.90	Average	182	79
6	2483.50	69.03	74.00	-4.97	71.93	-2.90	Peak	182	79
7	4874.00	36.30	54.00	-17.70	31.33	4.97	Average	132	156
8	4874.00	48.53	74.00	-25.47	43.56	4.97	Peak	132	156
9	7311.00	42.06	54.00	-11.94	32.53	9.53	Average	213	246
10	7311.00	54.80	74.00	-19.20	45.27	9.53	Peak	213	246

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



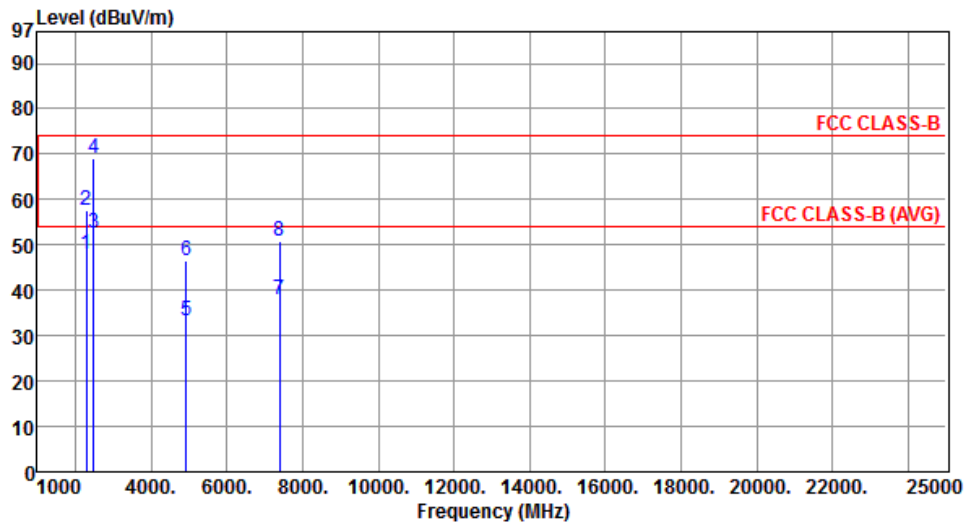
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	44.90	54.00	-9.10	48.62	-3.72	Average	242	316
2	2288.00	55.44	74.00	-18.56	59.16	-3.72	Peak	242	316
3	2390.00	50.97	54.00	-3.03	54.31	-3.34	Average	242	316
4	2390.00	72.52	74.00	-1.48	75.86	-3.34	Peak	242	316
5	2483.50	48.58	54.00	-5.42	51.48	-2.90	Average	242	342
6	2483.50	68.65	74.00	-5.35	71.55	-2.90	Peak	242	342
7	4874.00	36.53	54.00	-17.47	31.56	4.97	Average	135	155
8	4874.00	49.50	74.00	-24.50	44.53	4.97	Peak	135	155
9	7311.00	41.55	54.00	-12.45	32.02	9.53	Average	171	208
10	7311.00	53.49	74.00	-20.51	43.96	9.53	Peak	171	208

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1



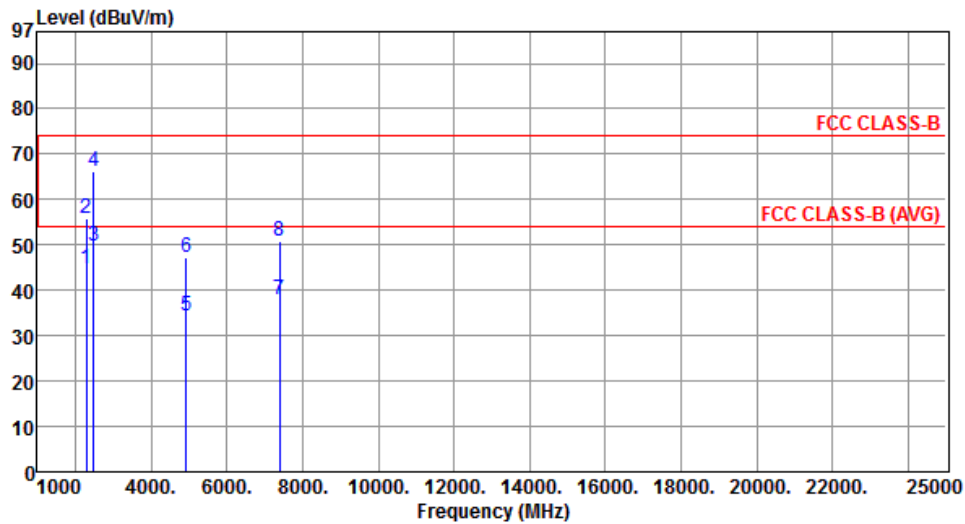
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.90	54.00	-6.10	51.62	-3.72	Average	153	71
2	2288.00	57.70	74.00	-16.30	61.42	-3.72	Peak	153	71
3	2483.50	52.78	54.00	-1.22	55.68	-2.90	Average	176	57
4	2483.50	69.07	74.00	-4.93	71.97	-2.90	Peak	176	57
5	4924.00	33.36	54.00	-20.64	28.25	5.11	Average	100	43
6	4924.00	46.44	74.00	-27.56	41.33	5.11	Peak	100	43
7	7386.00	37.93	54.00	-16.07	28.26	9.67	Average	100	222
8	7386.00	50.73	74.00	-23.27	41.06	9.67	Peak	100	222

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1



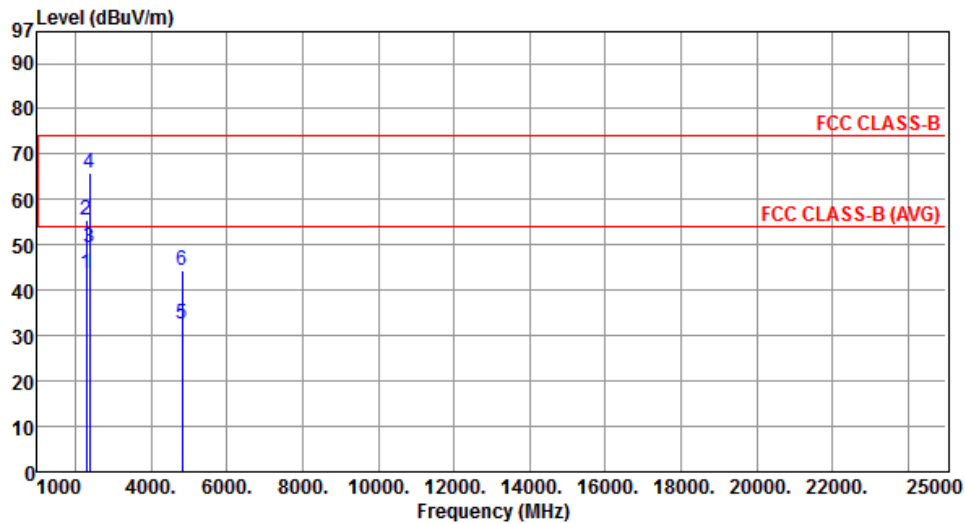
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	44.84	54.00	-9.16	48.56	-3.72	Average	255	343
2	2288.00	55.70	74.00	-18.30	59.42	-3.72	Peak	255	343
3	2483.50	49.84	54.00	-4.16	52.74	-2.90	Average	290	9
4	2483.50	66.28	74.00	-7.72	69.18	-2.90	Peak	290	9
5	4924.00	34.32	54.00	-19.68	29.21	5.11	Average	100	252
6	4924.00	47.34	74.00	-26.66	42.23	5.11	Peak	100	252
7	7386.00	38.08	54.00	-15.92	28.41	9.67	Average	155	316
8	7386.00	50.92	74.00	-23.08	41.25	9.67	Peak	155	316

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	2



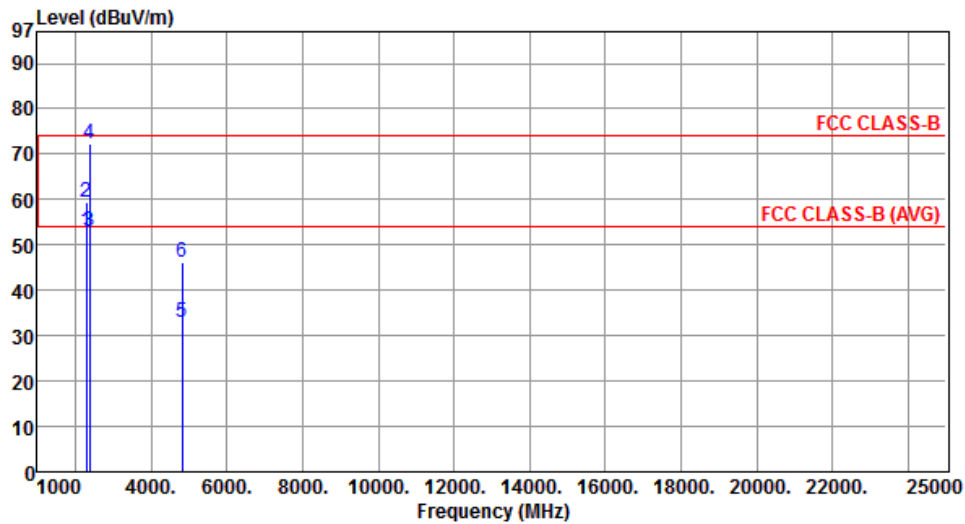
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.61	54.00	-10.39	47.33	-3.72	Average	173	285
2	2288.00	55.51	74.00	-18.49	59.23	-3.72	Peak	173	285
3	2390.00	49.46	54.00	-4.54	52.80	-3.34	Average	291	315
4	2390.00	65.71	74.00	-8.29	69.05	-3.34	Peak	291	315
5	4824.00	32.47	54.00	-21.53	27.63	4.84	Average	123	216
6	4824.00	44.36	74.00	-29.64	39.52	4.84	Peak	123	216

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	2



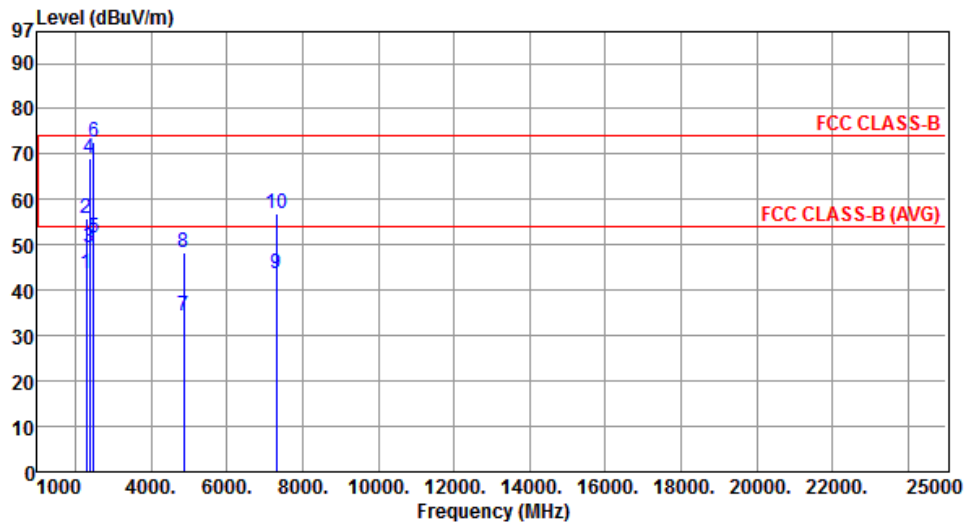
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.89	54.00	-1.11	56.61	-3.72	Average	210	5
2	2288.00	59.38	74.00	-14.62	63.10	-3.72	Peak	210	5
3	2390.00	52.98	54.00	-1.02	56.32	-3.34	Average	285	3
4	2390.00	72.47	74.00	-1.53	75.81	-3.34	Peak	285	3
5	4824.00	33.05	54.00	-20.95	28.21	4.84	Average	162	35
6	4824.00	46.09	74.00	-27.91	41.25	4.84	Peak	162	35

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



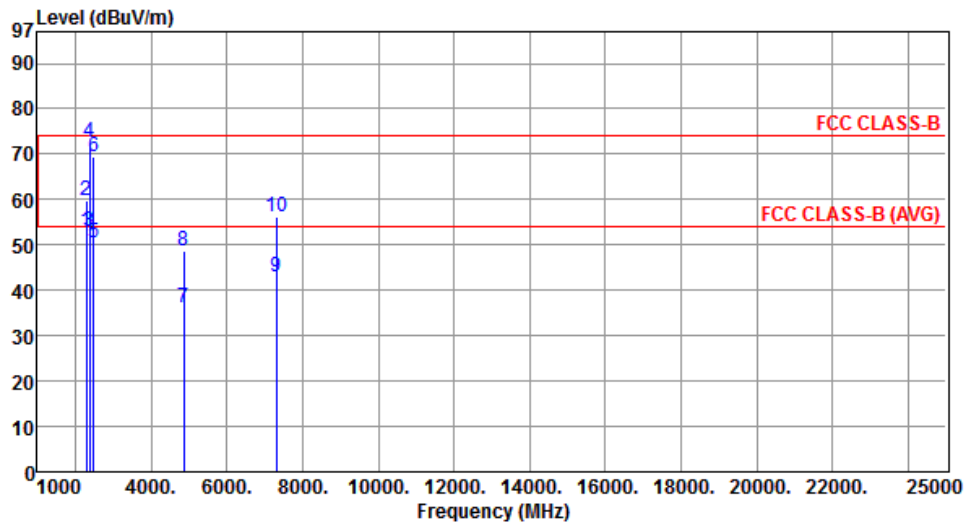
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.73	54.00	-10.27	47.45	-3.72	Average	173	277
2	2288.00	55.66	74.00	-18.34	59.38	-3.72	Peak	173	277
3	2390.00	49.51	54.00	-4.49	52.85	-3.34	Average	220	309
4	2390.00	69.13	74.00	-4.87	72.47	-3.34	Peak	220	309
5	2483.50	51.69	54.00	-2.31	54.59	-2.90	Average	220	309
6	2483.50	72.76	74.00	-1.24	75.66	-2.90	Peak	220	309
7	4874.00	34.32	54.00	-19.68	29.35	4.97	Average	237	41
8	4874.00	48.22	74.00	-25.78	43.25	4.97	Peak	237	41
9	7311.00	43.53	54.00	-10.47	34.00	9.53	Average	230	325
10	7311.00	56.86	74.00	-17.14	47.33	9.53	Peak	230	325

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



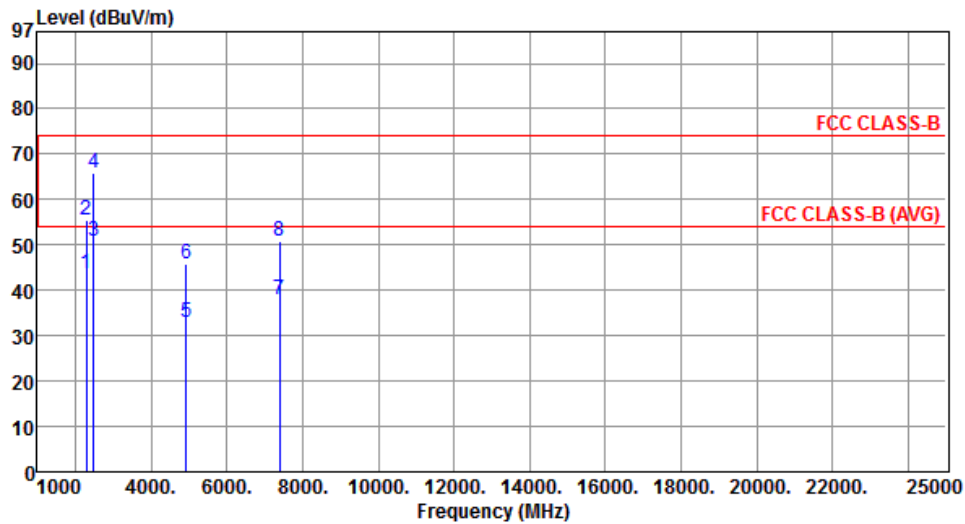
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.93	54.00	-1.07	56.65	-3.72	Average	221	10
2	2288.00	59.80	74.00	-14.20	63.52	-3.72	Peak	221	10
3	2390.00	52.97	54.00	-1.03	56.31	-3.34	Average	227	14
4	2390.00	72.62	74.00	-1.38	75.96	-3.34	Peak	227	14
5	2483.50	50.40	54.00	-3.60	53.30	-2.90	Average	227	14
6	2483.50	69.45	74.00	-4.55	72.35	-2.90	Peak	227	14
7	4874.00	36.23	54.00	-17.77	31.26	4.97	Average	141	156
8	4874.00	48.62	74.00	-25.38	43.65	4.97	Peak	141	156
9	7311.00	43.09	54.00	-10.91	33.56	9.53	Average	225	153
10	7311.00	56.28	74.00	-17.72	46.75	9.53	Peak	225	153

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	2



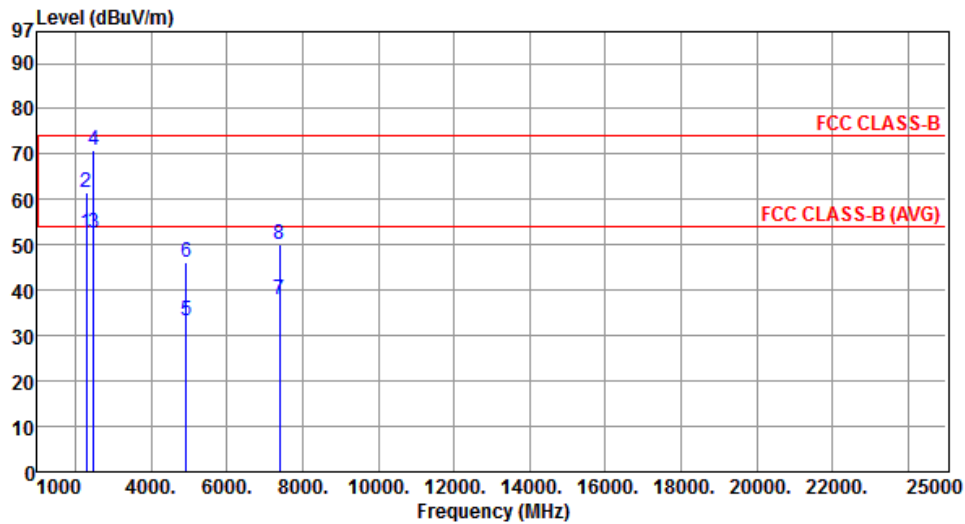
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.84	54.00	-10.16	47.56	-3.72	Average	161	275
2	2288.00	55.40	74.00	-18.60	59.12	-3.72	Peak	161	275
3	2483.50	50.76	54.00	-3.24	53.66	-2.90	Average	227	313
4	2483.50	65.81	74.00	-8.19	68.71	-2.90	Peak	227	313
5	4924.00	32.77	54.00	-21.23	27.66	5.11	Average	128	56
6	4924.00	45.65	74.00	-28.35	40.54	5.11	Peak	128	56
7	7386.00	37.79	54.00	-16.21	28.12	9.67	Average	156	216
8	7386.00	51.00	74.00	-23.00	41.33	9.67	Peak	156	216

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.51	54.00	-1.49	56.23	-3.72	Average	210	12
2	2288.00	61.61	74.00	-12.39	65.33	-3.72	Peak	210	12
3	2483.50	52.72	54.00	-1.28	55.62	-2.90	Average	270	331
4	2483.50	70.82	74.00	-3.18	73.72	-2.90	Peak	270	331
5	4924.00	33.37	54.00	-20.63	28.26	5.11	Average	155	238
6	4924.00	46.13	74.00	-27.87	41.02	5.11	Peak	155	238
7	7386.00	37.79	54.00	-16.21	28.12	9.67	Average	123	168
8	7386.00	50.20	74.00	-23.80	40.53	9.67	Peak	123	168

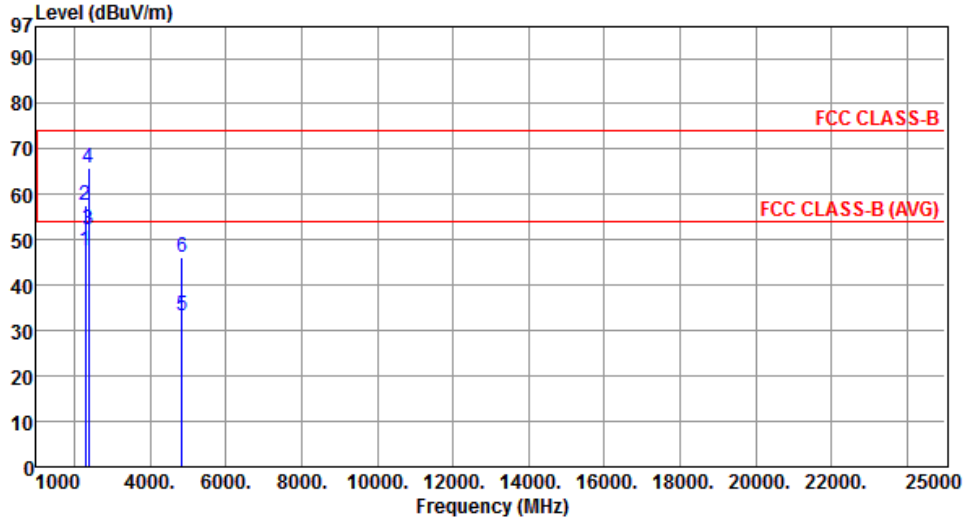
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

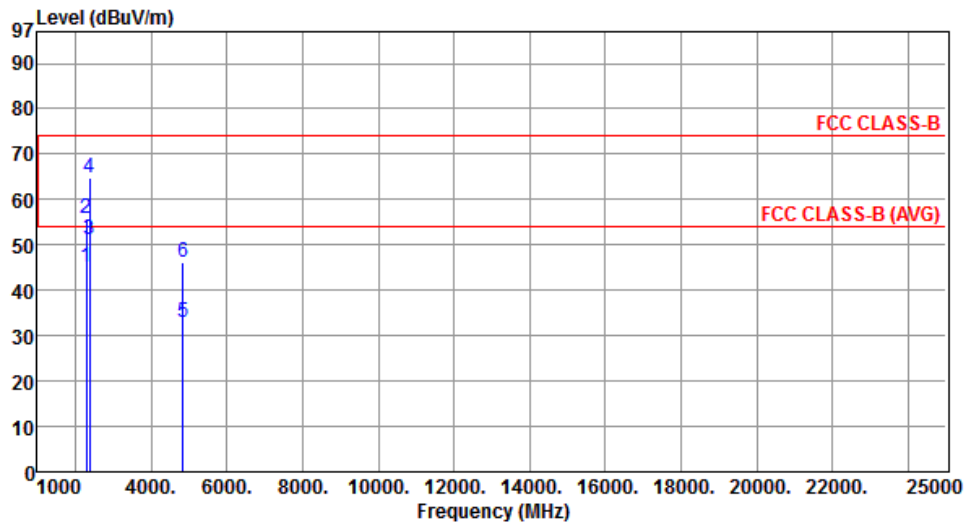
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	1



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.44	54.00	-6.56	51.16	-3.72	Average	168	61
2	2288.00	57.71	74.00	-16.29	61.43	-3.72	Peak	168	61
3	2390.00	52.35	54.00	-1.65	55.69	-3.34	Average	213	58
4	2390.00	65.99	74.00	-8.01	69.33	-3.34	Peak	213	58
5	4844.00	33.32	54.00	-20.68	28.42	4.90	Average	100	56
6	4844.00	46.22	74.00	-27.78	41.32	4.90	Peak	100	56

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	1



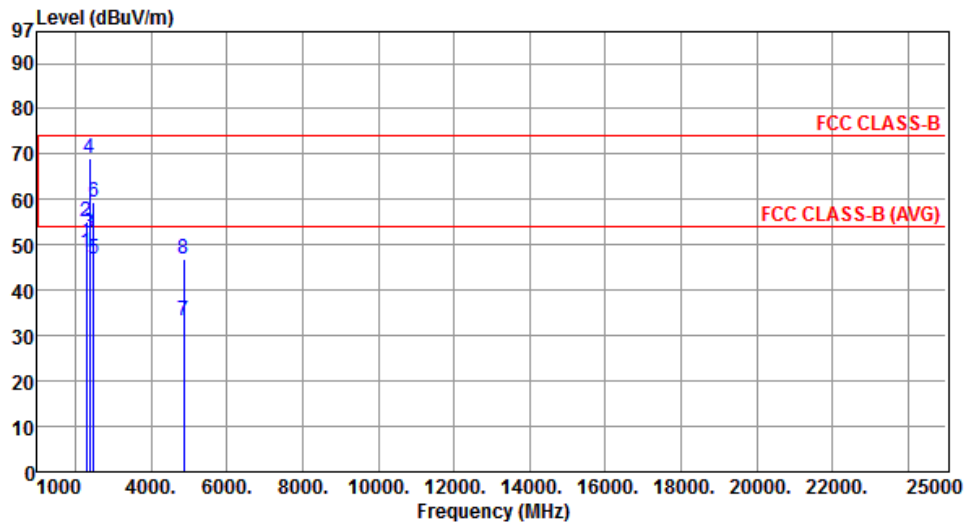
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	44.96	54.00	-9.04	48.68	-3.72	Average	213	6
2	2288.00	55.71	74.00	-18.29	59.43	-3.72	Peak	213	6
3	2390.00	51.28	54.00	-2.72	54.62	-3.34	Average	311	336
4	2390.00	64.75	74.00	-9.25	68.09	-3.34	Peak	311	336
5	4844.00	33.06	54.00	-20.94	28.16	4.90	Average	100	137
6	4844.00	46.23	74.00	-27.77	41.33	4.90	Peak	100	137

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1



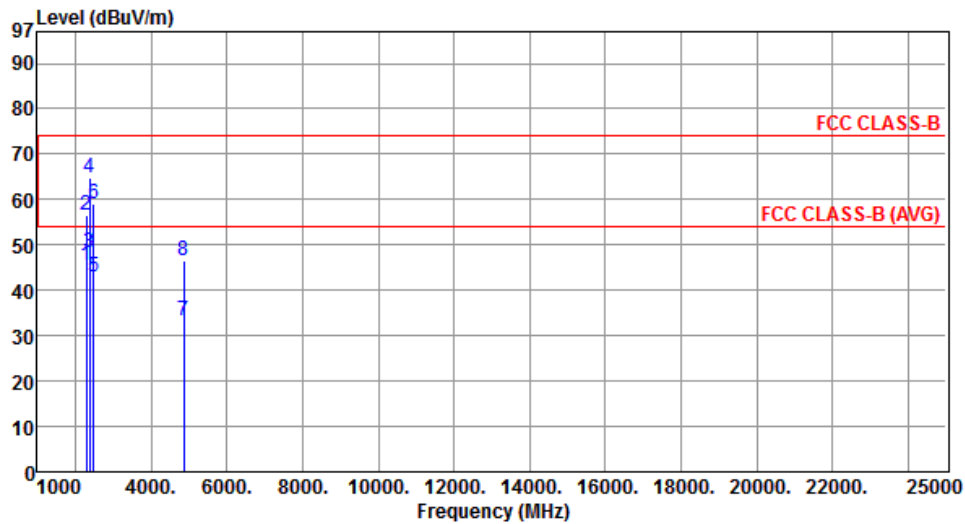
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	48.41	54.00	-5.59	52.13	-3.72	Average	205	61
2	2288.00	55.28	74.00	-18.72	59.00	-3.72	Peak	205	61
3	2390.00	52.71	54.00	-1.29	56.05	-3.34	Average	208	61
4	2390.00	69.20	74.00	-4.80	72.54	-3.34	Peak	208	61
5	2483.50	46.80	54.00	-7.20	49.70	-2.90	Average	208	61
6	2483.50	59.54	74.00	-14.46	62.44	-2.90	Peak	208	61
7	4874.00	33.34	54.00	-20.66	28.37	4.97	Average	100	66
8	4874.00	46.85	74.00	-27.15	41.88	4.97	Peak	100	66

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1



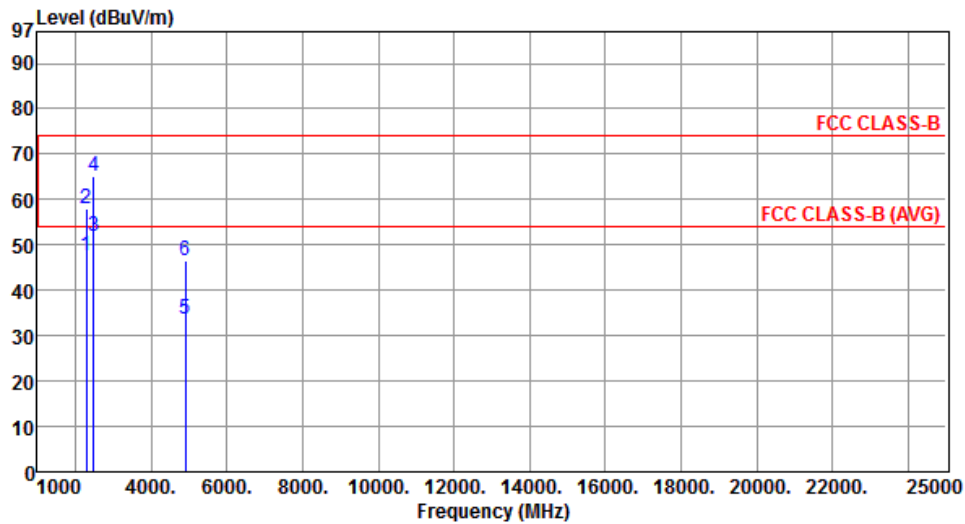
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	45.49	54.00	-8.51	49.21	-3.72	Average	222	12
2	2288.00	56.67	74.00	-17.33	60.39	-3.72	Peak	222	12
3	2390.00	48.23	54.00	-5.77	51.57	-3.34	Average	272	354
4	2390.00	64.91	74.00	-9.09	68.25	-3.34	Peak	272	354
5	2483.50	43.03	54.00	-10.97	45.93	-2.90	Average	272	354
6	2483.50	59.21	74.00	-14.79	62.11	-2.90	Peak	272	354
7	4874.00	33.29	54.00	-20.71	28.32	4.97	Average	100	212
8	4874.00	46.42	74.00	-27.58	41.45	4.97	Peak	100	212

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	1



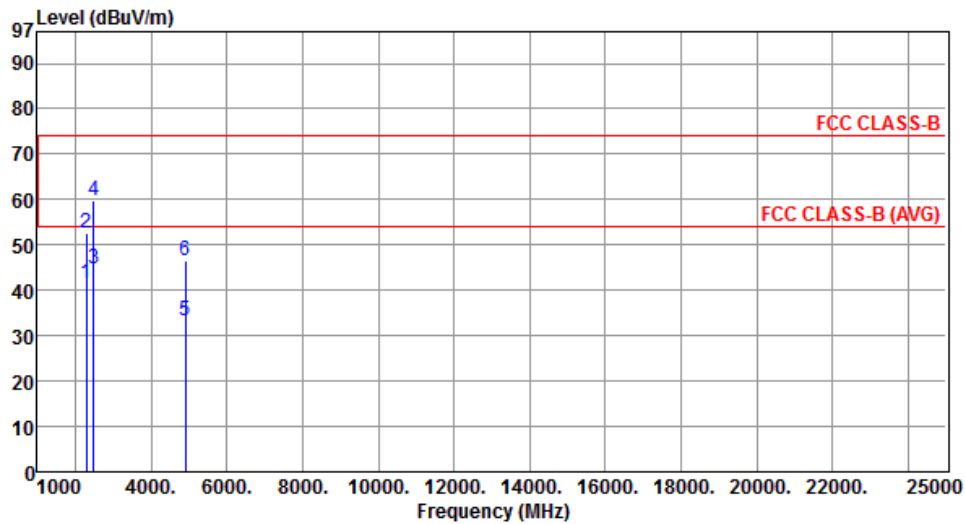
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	47.53	54.00	-6.47	51.25	-3.72	Average	155	52
2	2288.00	58.05	74.00	-15.95	61.77	-3.72	Peak	155	52
3	2483.50	51.76	54.00	-2.24	54.66	-2.90	Average	226	63
4	2483.50	65.26	74.00	-8.74	68.16	-2.90	Peak	226	63
5	4904.00	33.56	54.00	-20.44	28.50	5.06	Average	220	73
6	4904.00	46.63	74.00	-27.37	41.57	5.06	Peak	220	73

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	1



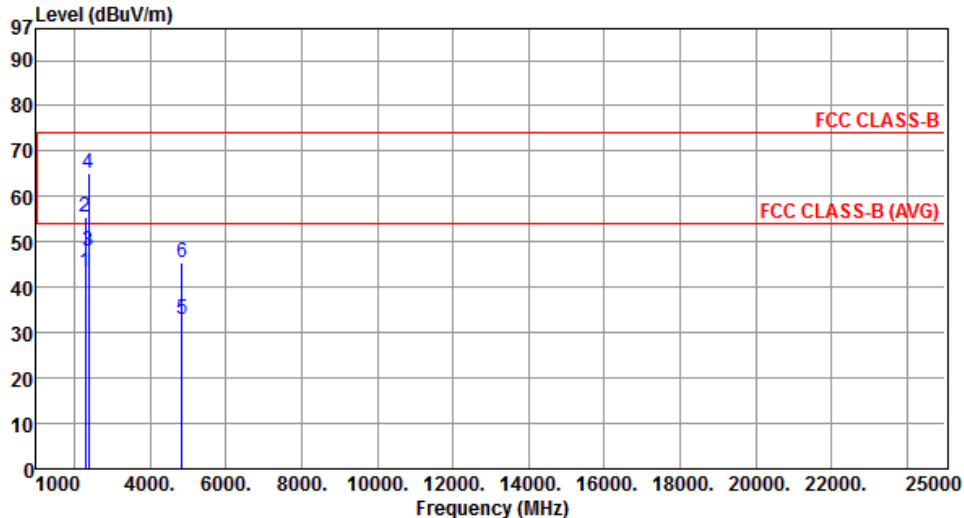
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	41.65	54.00	-12.35	45.37	-3.72	Average	250	32
2	2288.00	52.63	74.00	-21.37	56.35	-3.72	Peak	250	32
3	2483.50	44.63	54.00	-9.37	47.53	-2.90	Average	273	339
4	2483.50	59.73	74.00	-14.27	62.63	-2.90	Peak	273	339
5	4904.00	33.42	54.00	-20.58	28.36	5.06	Average	100	229
6	4904.00	46.36	74.00	-27.64	41.30	5.06	Peak	100	229

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

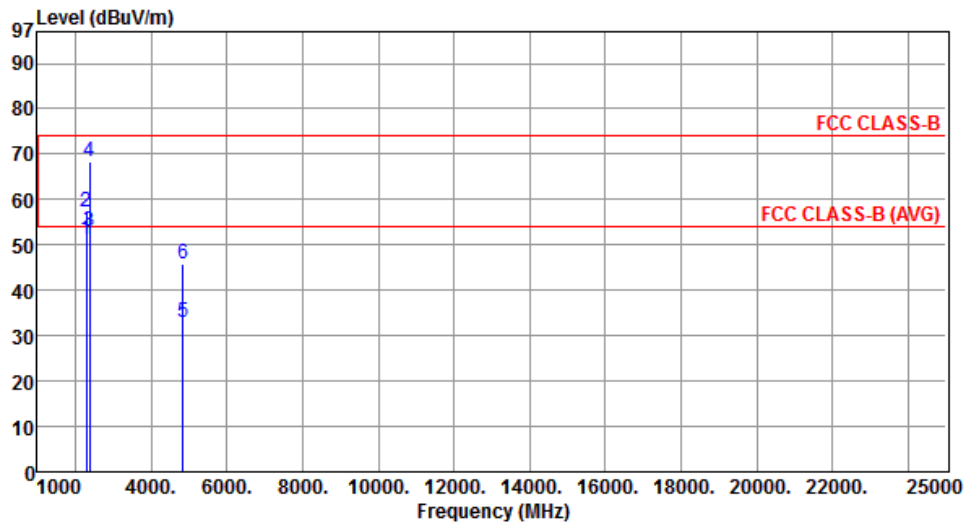
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.44	54.00	-10.56	47.16	-3.72	Average	156	288
2	2288.00	55.41	74.00	-18.59	59.13	-3.72	Peak	156	288
3	2390.00	47.91	54.00	-6.09	51.25	-3.34	Average	240	325
4	2390.00	65.19	74.00	-8.81	68.53	-3.34	Peak	240	325
5	4844.00	33.11	54.00	-20.89	28.21	4.90	Average	212	213
6	4844.00	45.46	74.00	-28.54	40.56	4.90	Peak	212	213

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	2



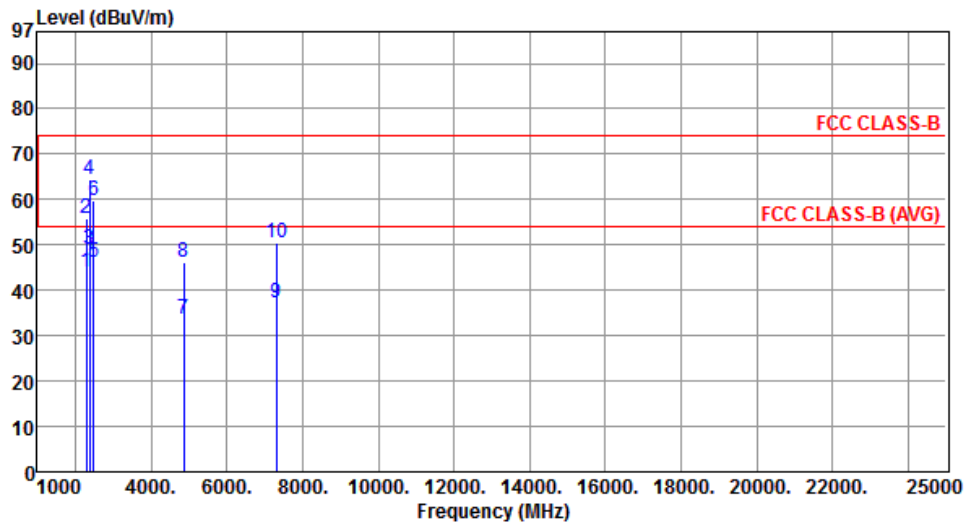
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	51.31	54.00	-2.69	55.03	-3.72	Average	217	3
2	2288.00	57.20	74.00	-16.80	60.92	-3.72	Peak	217	3
3	2390.00	52.84	54.00	-1.16	56.18	-3.34	Average	170	346
4	2390.00	68.52	74.00	-5.48	71.86	-3.34	Peak	170	346
5	4844.00	33.02	54.00	-20.98	28.12	4.90	Average	153	321
6	4844.00	45.92	74.00	-28.08	41.02	4.90	Peak	153	321

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2



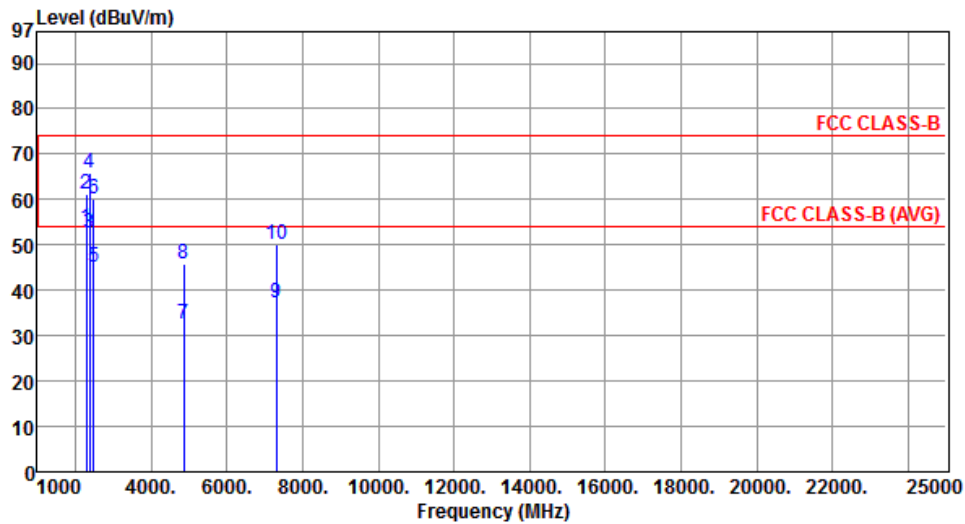
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.96	54.00	-10.04	47.68	-3.72	Average	162	276
2	2288.00	55.95	74.00	-18.05	59.67	-3.72	Peak	162	276
3	2390.00	49.15	54.00	-4.85	52.49	-3.34	Average	258	319
4	2390.00	64.36	74.00	-9.64	67.70	-3.34	Peak	258	319
5	2483.50	46.21	54.00	-7.79	49.11	-2.90	Average	258	319
6	2483.50	59.77	74.00	-14.23	62.67	-2.90	Peak	258	319
7	4874.00	33.50	54.00	-20.50	28.53	4.97	Average	168	247
8	4874.00	46.19	74.00	-27.81	41.22	4.97	Peak	168	247
9	7311.00	37.09	54.00	-16.91	27.56	9.53	Average	155	145
10	7311.00	50.59	74.00	-23.41	41.06	9.53	Peak	155	145

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2



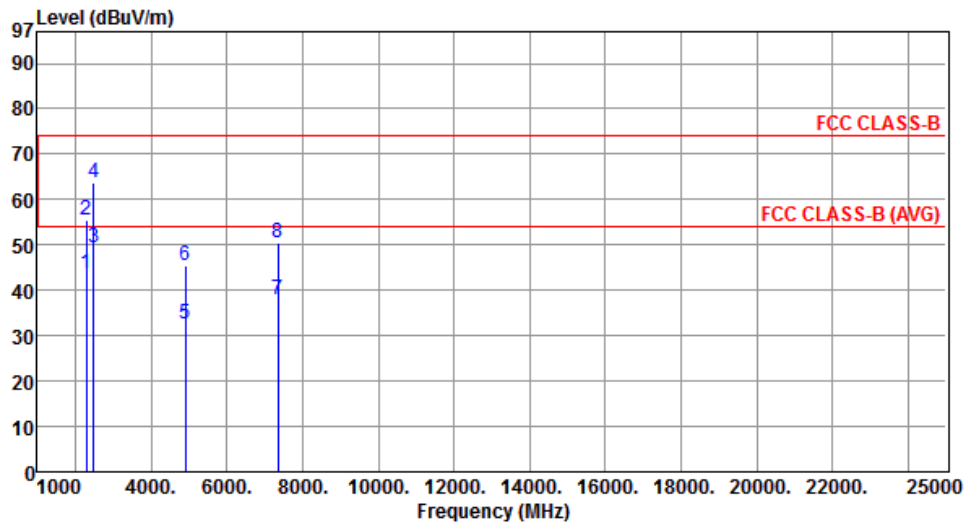
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	53.63	54.00	-0.37	57.35	-3.72	Average	214	16
2	2288.00	61.32	74.00	-12.68	65.04	-3.72	Peak	214	16
3	2390.00	52.73	54.00	-1.27	56.07	-3.34	Average	229	27
4	2390.00	65.93	74.00	-8.07	69.27	-3.34	Peak	229	27
5	2483.50	45.05	54.00	-8.95	47.95	-2.90	Average	229	27
6	2483.50	60.16	74.00	-13.84	63.06	-2.90	Peak	229	27
7	4874.00	32.62	54.00	-21.38	27.65	4.97	Average	224	168
8	4874.00	45.65	74.00	-28.35	40.68	4.97	Peak	224	168
9	7311.00	37.15	54.00	-16.85	27.62	9.53	Average	137	215
10	7311.00	50.06	74.00	-23.94	40.53	9.53	Peak	137	215

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	2



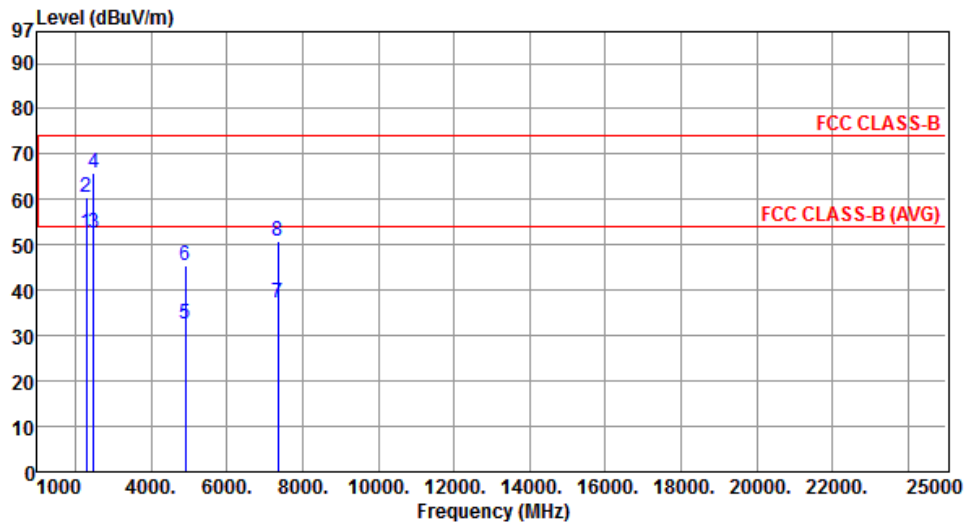
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	43.63	54.00	-10.37	47.35	-3.72	Average	161	276
2	2288.00	55.49	74.00	-18.51	59.21	-3.72	Peak	161	276
3	2483.50	49.32	54.00	-4.68	52.22	-2.90	Average	228	323
4	2483.50	63.65	74.00	-10.35	66.55	-2.90	Peak	228	323
5	4904.00	32.50	54.00	-21.50	27.44	5.06	Average	152	133
6	4904.00	45.43	74.00	-28.57	40.37	5.06	Peak	152	133
7	7356.00	37.77	54.00	-16.23	28.16	9.61	Average	122	163
8	7356.00	50.63	74.00	-23.37	41.02	9.61	Peak	122	163

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	2



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2288.00	52.51	54.00	-1.49	56.23	-3.72	Average	210	7
2	2288.00	60.59	74.00	-13.41	64.31	-3.72	Peak	210	7
3	2483.50	52.51	54.00	-1.49	55.41	-2.90	Average	273	335
4	2483.50	65.69	74.00	-8.31	68.59	-2.90	Peak	273	335
5	4904.00	32.40	54.00	-21.60	27.34	5.06	Average	162	46
6	4904.00	45.58	74.00	-28.42	40.52	5.06	Peak	162	46
7	7356.00	37.24	54.00	-16.76	27.63	9.61	Average	126	213
8	7356.00	50.94	74.00	-23.06	41.33	9.61	Peak	126	213

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

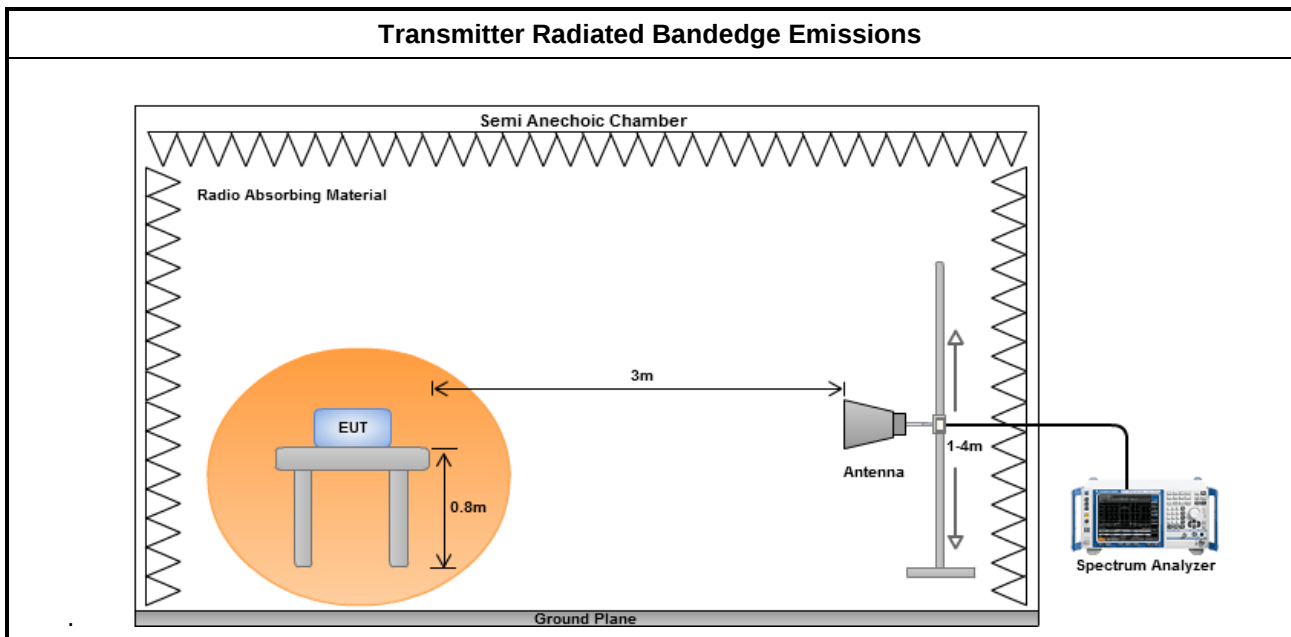
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.6.4 Test Setup



3.6.5 Unwanted Emissions into Non-Restricted Frequency Bands

Configuration 1 : Ceiling mounted

Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	11b			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	111.75	2399.99	62.07	49.68	30	PK	H
2390-2400	2437	115.84	2396.54	54.64	61.20	30	PK	H
2390-2400	2462	112.94	2399.06	50.38	62.56	30	PK	H

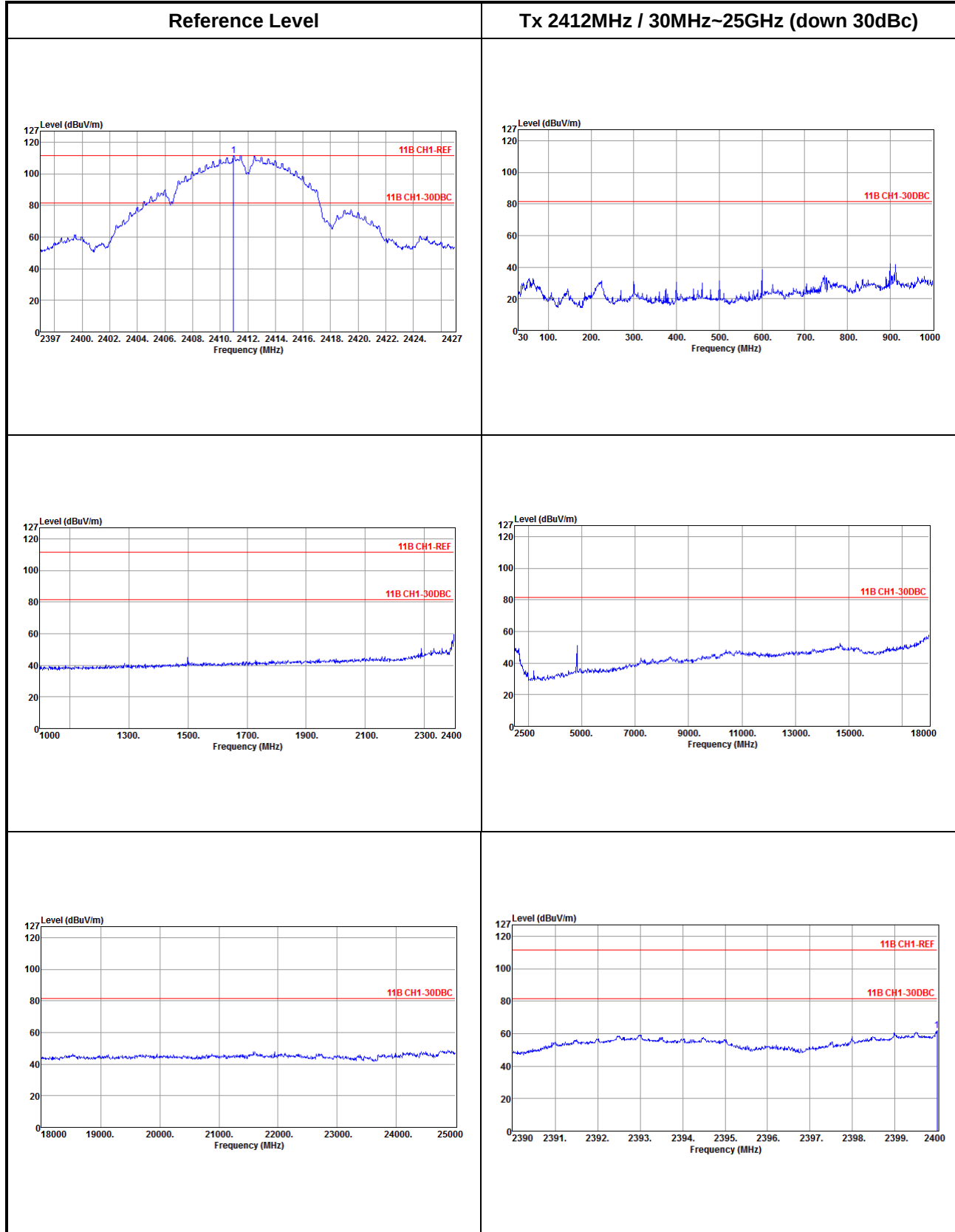
Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	11g			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	100.30	2399.92	69.00	31.30	30	PK	H
2390-2400	2437	109.06	2397.36	65.63	43.43	30	PK	H
2390-2400	2462	104.51	2397.93	49.27	55.24	30	PK	H

Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	HT20			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	100.64	2399.96	69.63	31.01	30	PK	H
2390-2400	2437	109.28	2393.56	63.33	45.95	30	PK	H
2390-2400	2462	101.80	2396.12	48.69	53.11	30	PK	H

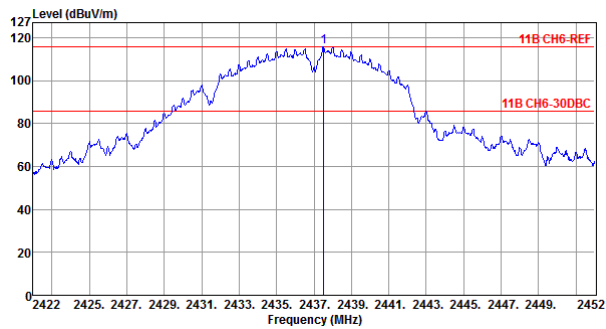
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Modulation	HT40			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	95.90	2399.95	64.87	31.03	30	PK	H
2390-2400	2437	100.42	2391.97	61.39	39.03	30	PK	H
2390-2400	2462	98.98	2399.48	54.68	44.30	30	PK	H

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

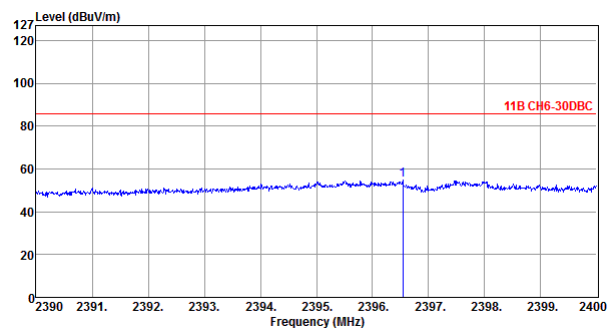
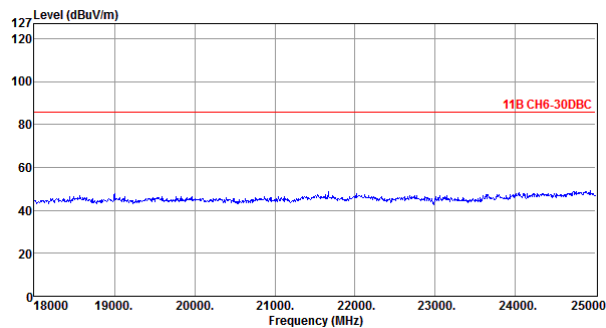
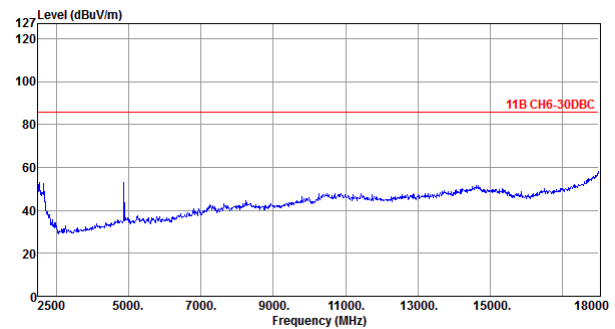
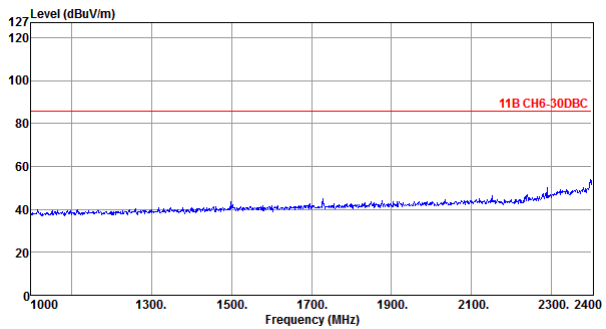
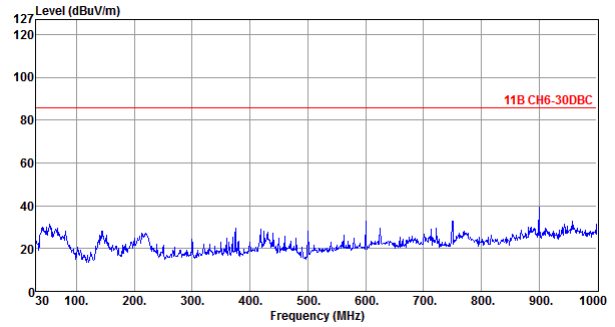
802.11b



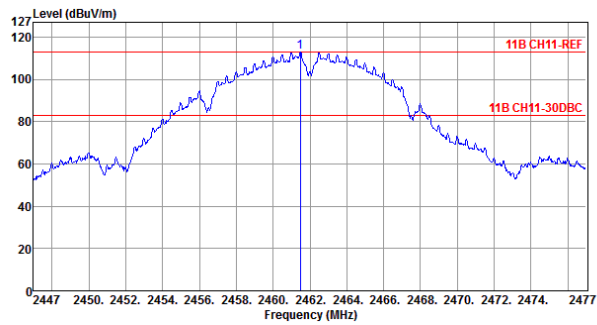
Reference Level



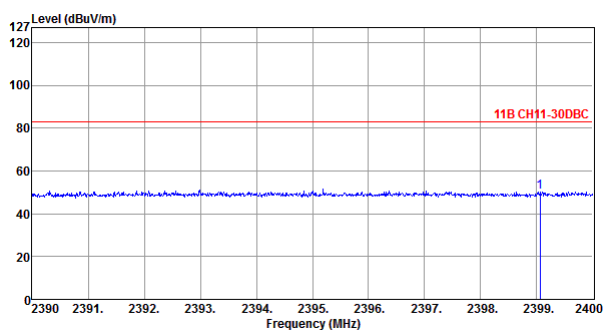
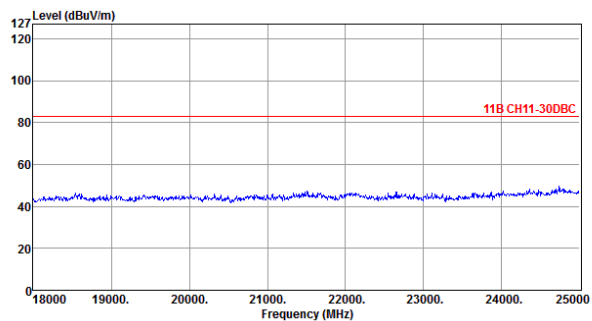
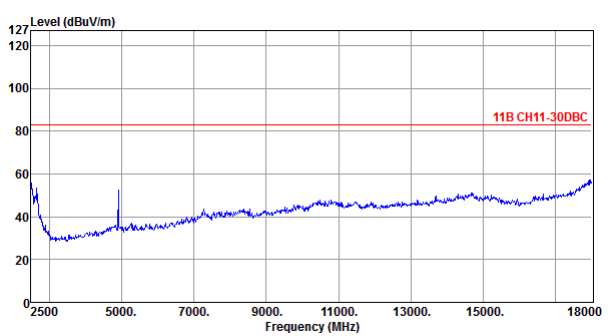
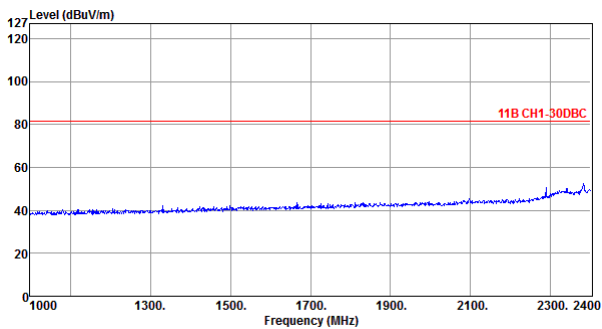
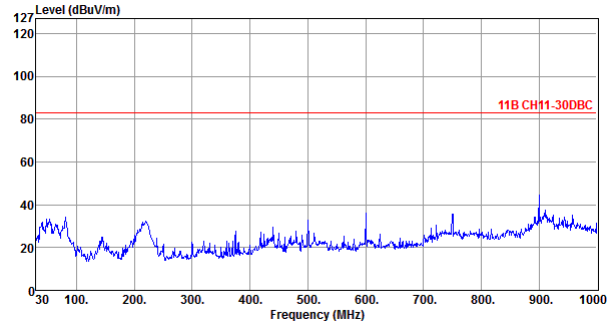
Tx 2437MHz / 30MHz~25GHz (down 30dBc)



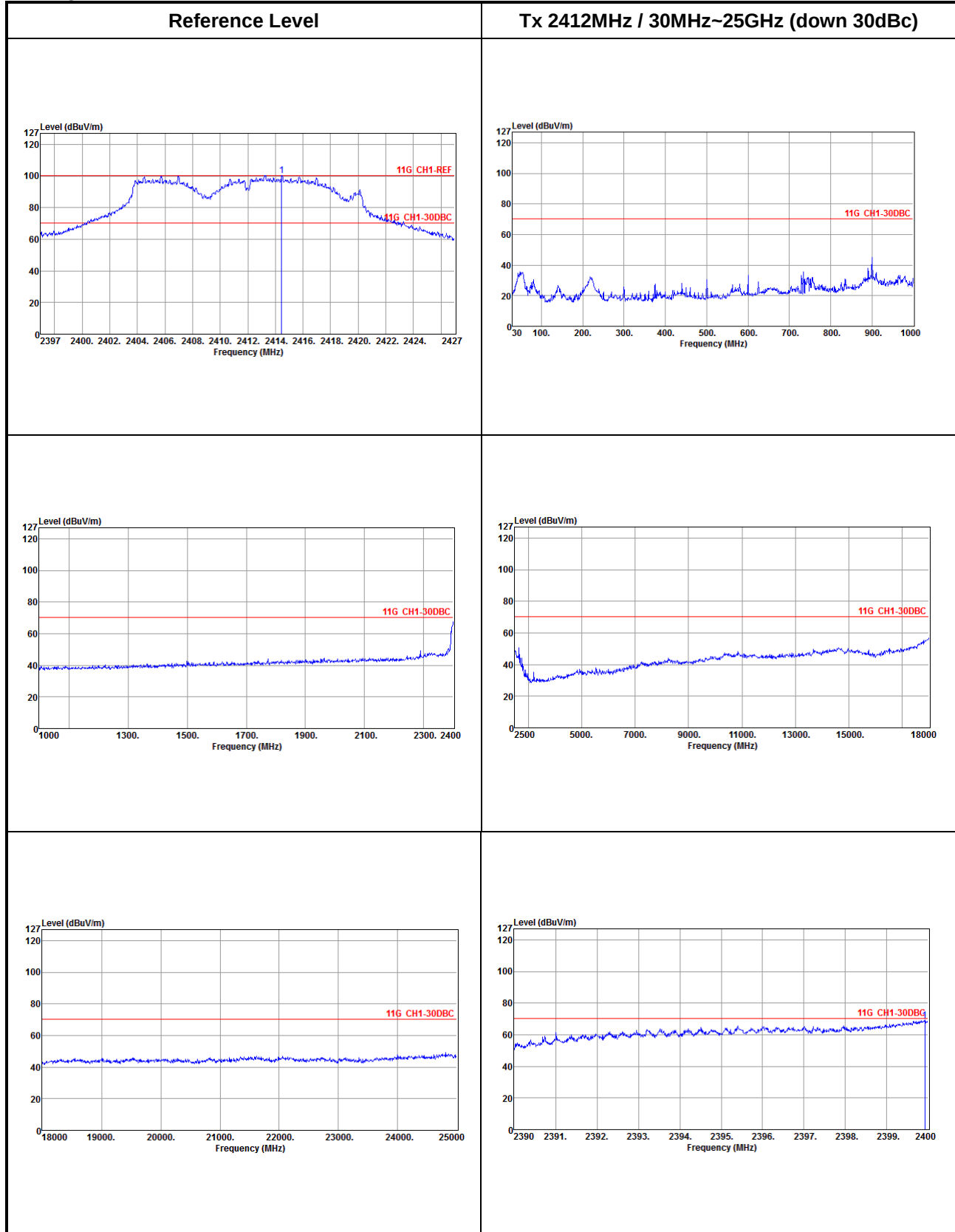
Reference Level

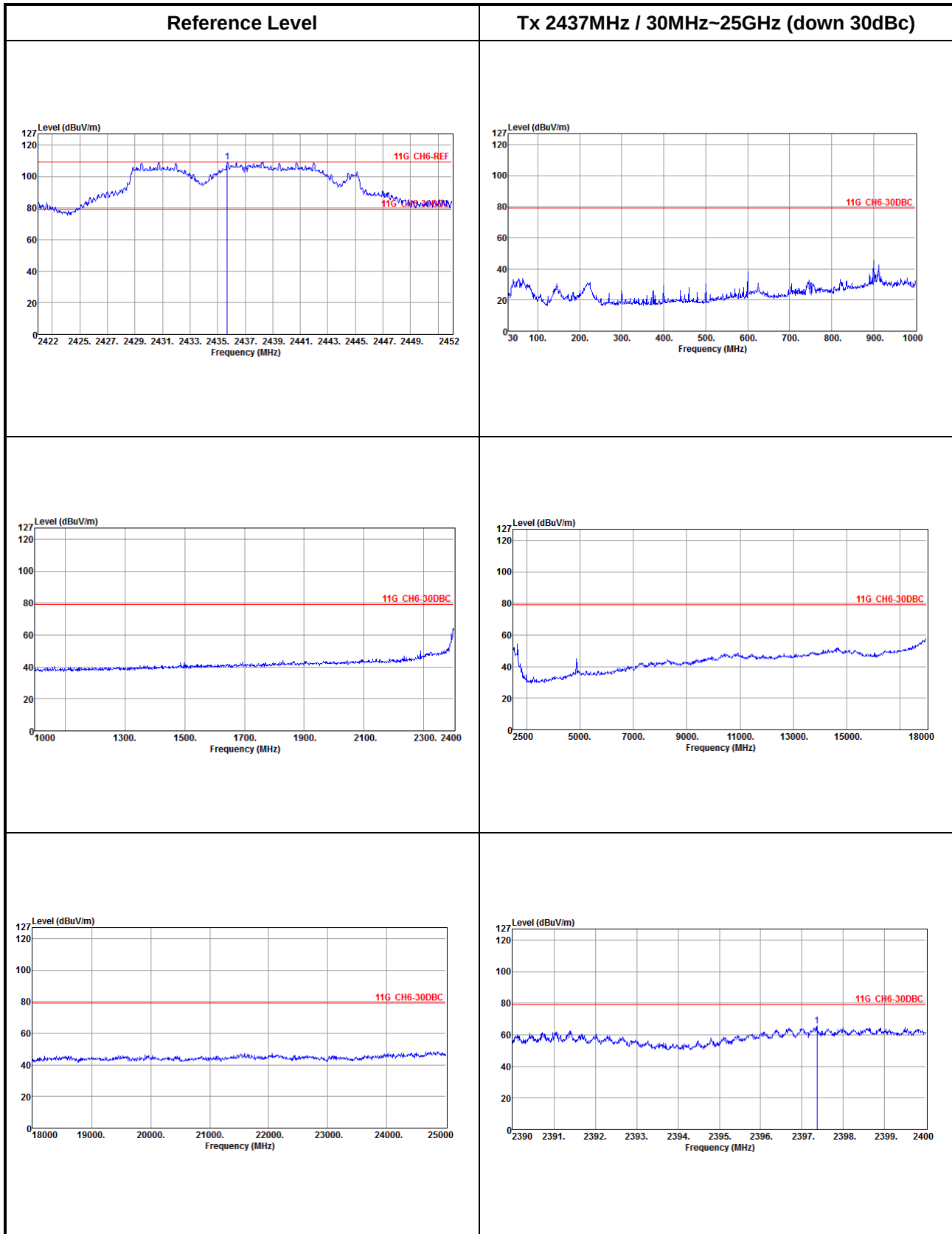


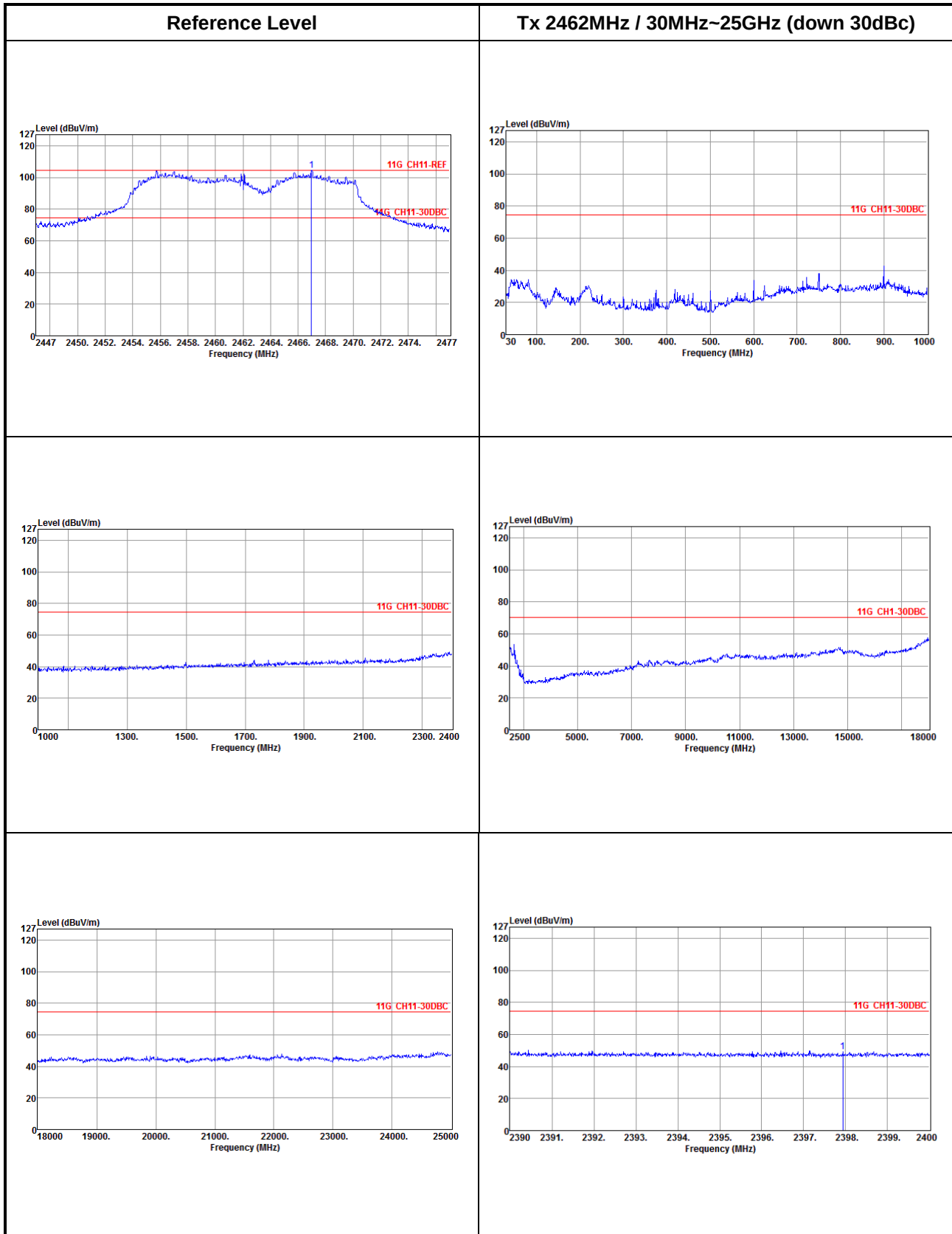
Tx 2462MHz / 30MHz~25GHz (down 30dBc)



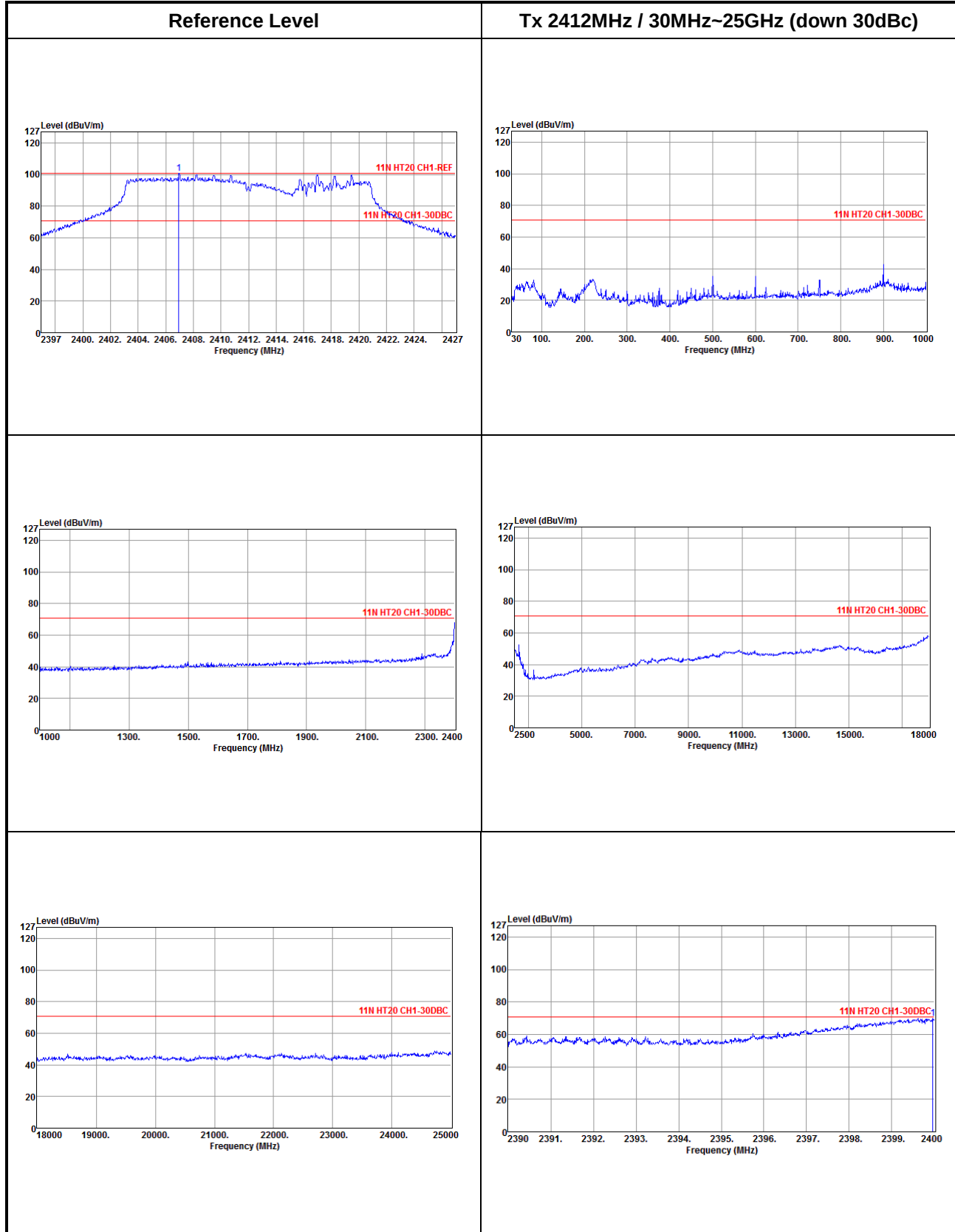
802.11g



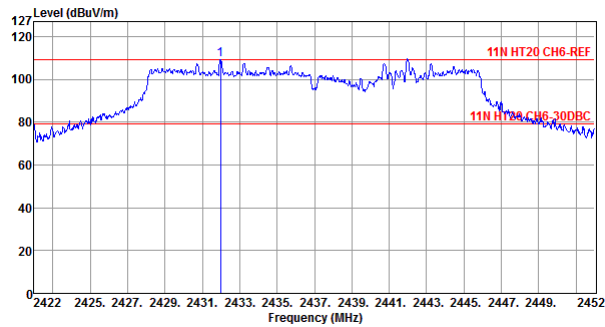




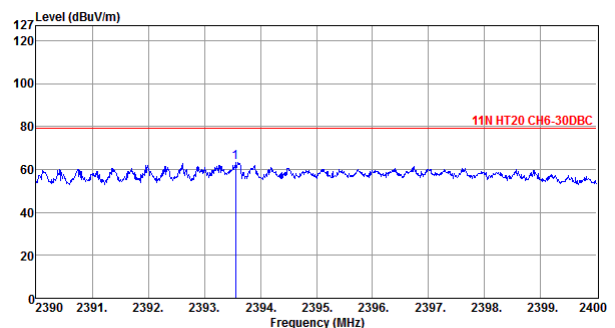
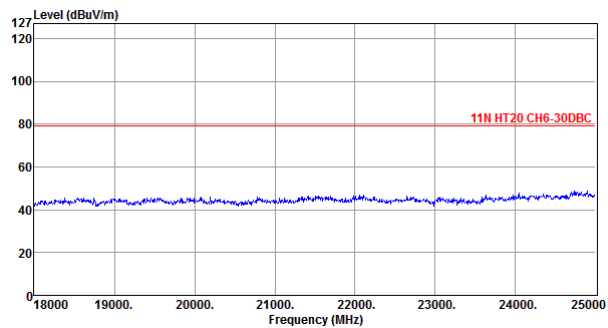
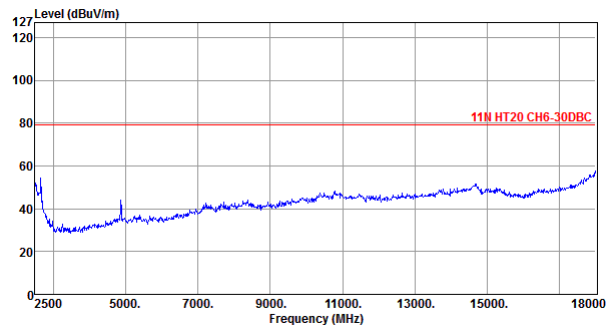
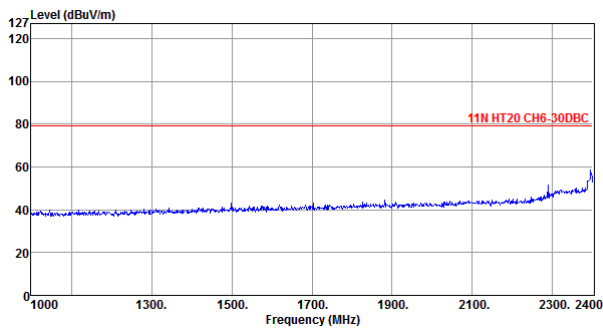
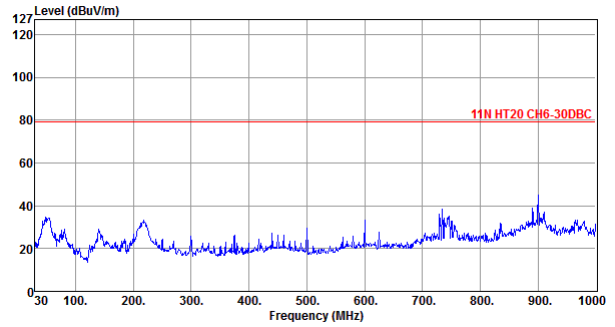
802.11n HT20



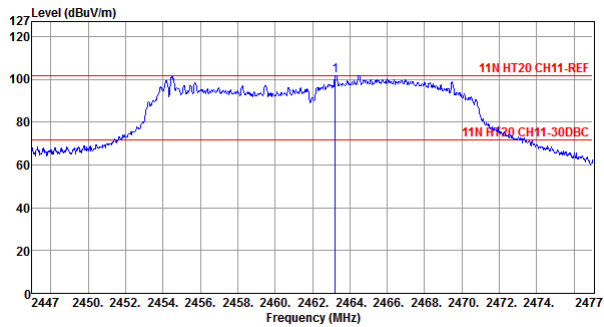
Reference Level



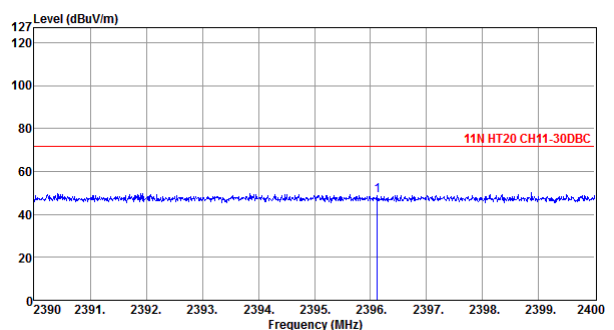
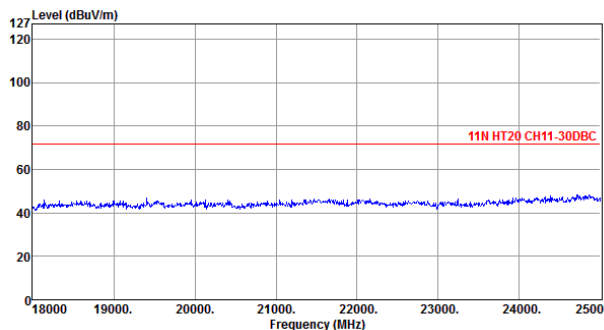
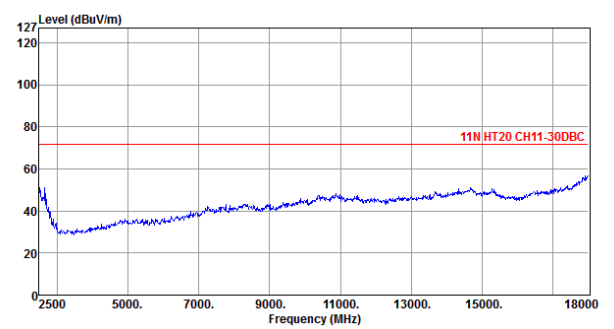
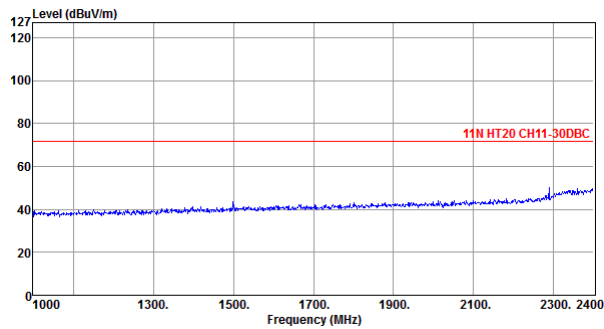
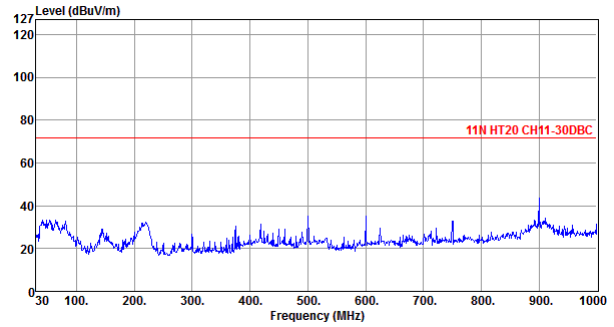
Tx 2437MHz / 30MHz~25GHz (down 30dBc)



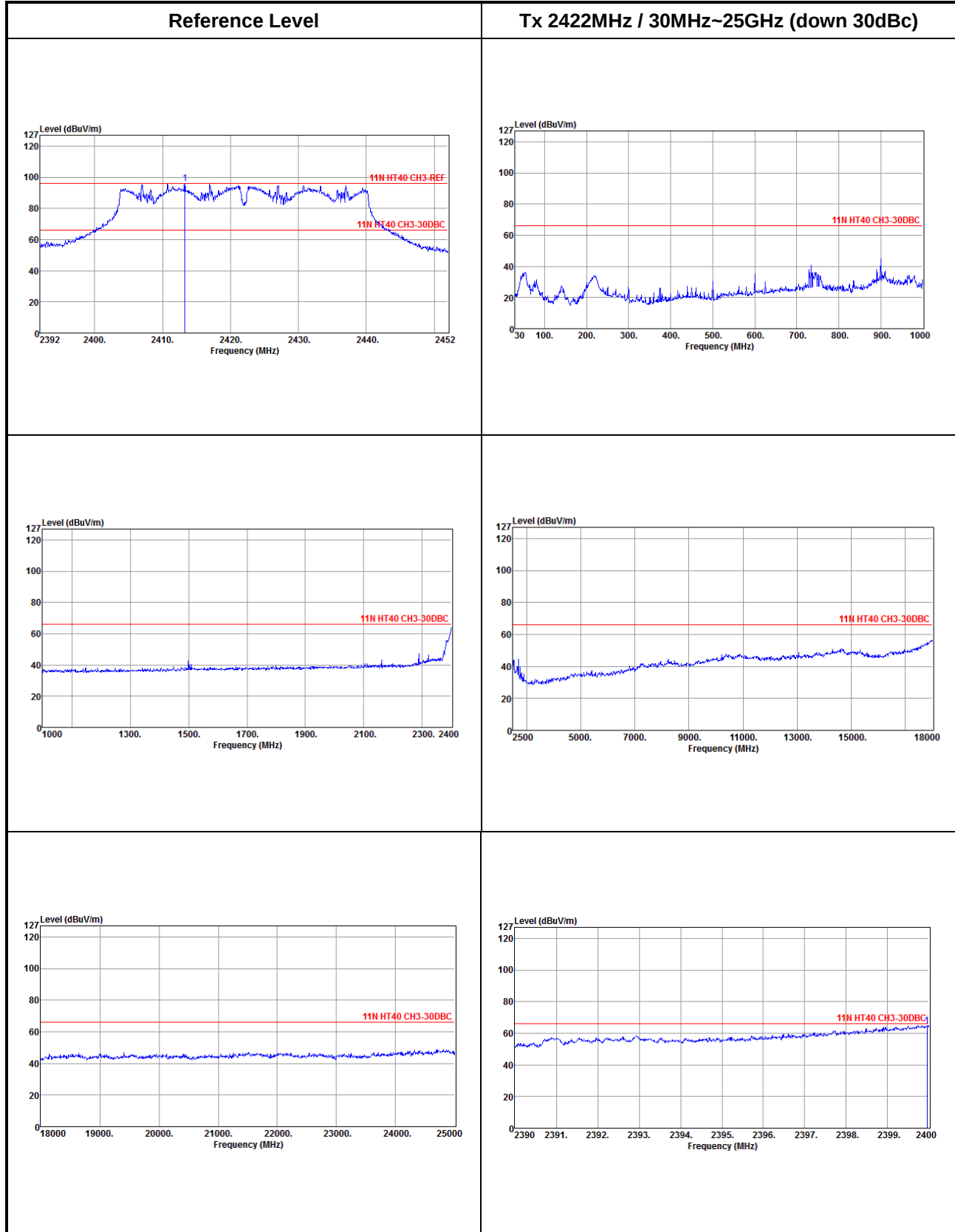
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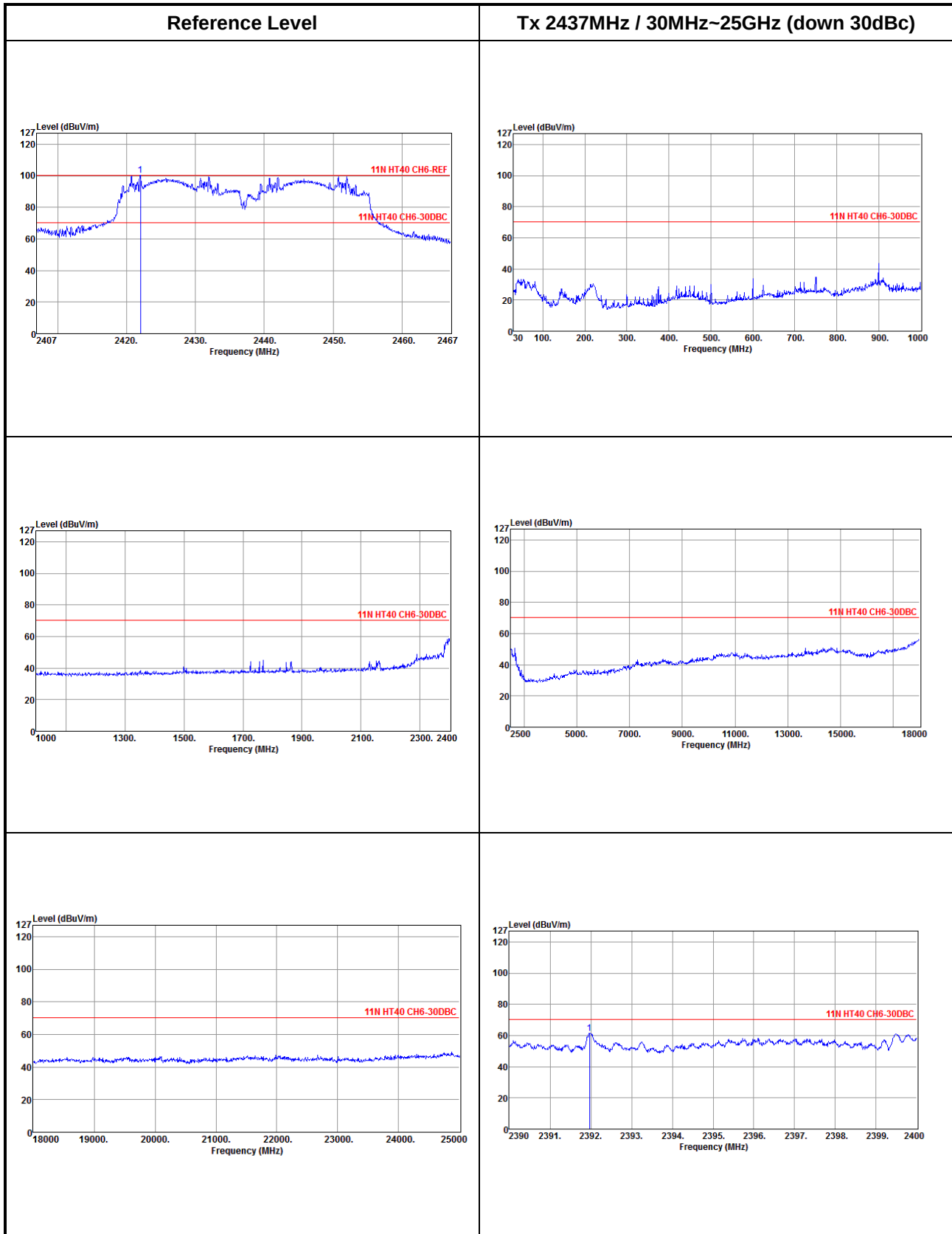


Tx 2462MHz / 30MHz~25GHz (down 30dBc)

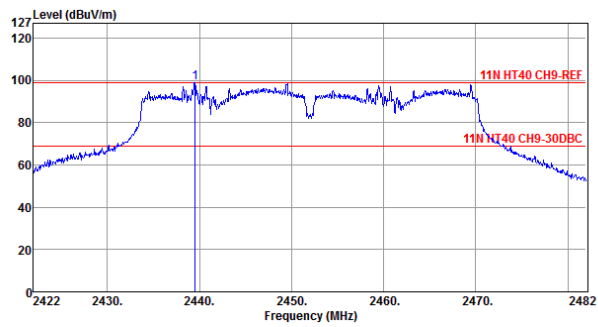


802.11n HT40

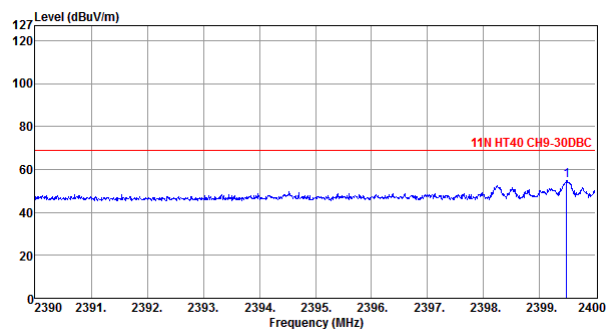
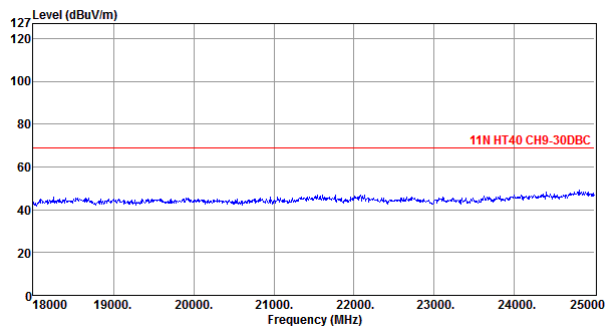
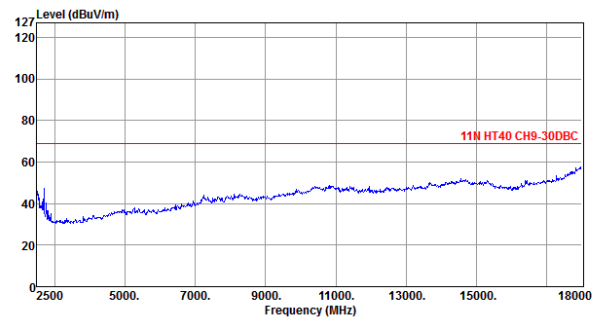
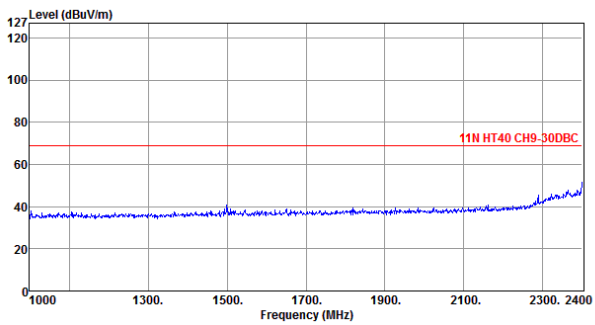
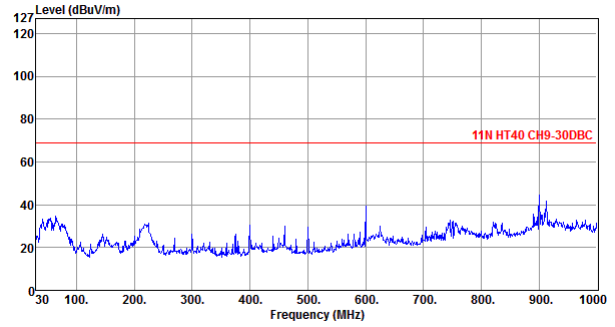




Reference Level



Tx 2452MHz / 30MHz~25GHz (down 30dBc)



Configuration 2 : Wall mounted

Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	11b			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	112.33	2399.49	61.09	51.24	30	PK	V
2390-2400	2437	115.90	2395.98	54.70	61.20	30	PK	V
2390-2400	2462	113.47	2396.32	51.10	62.37	30	PK	V

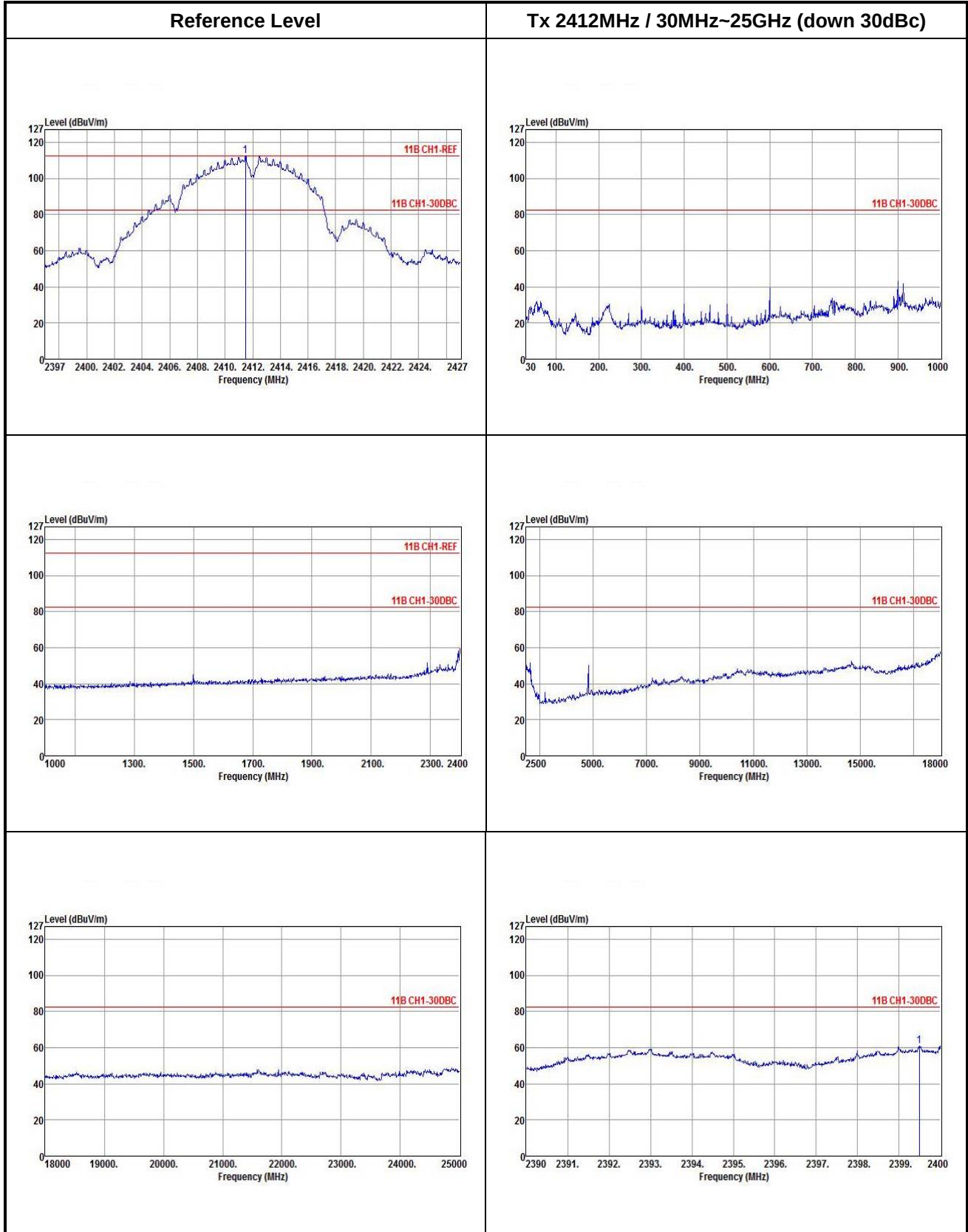
Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	11g			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	100.88	2399.98	69.41	31.47	30	PK	V
2390-2400	2437	109.55	2399.49	65.66	43.89	30	PK	V
2390-2400	2462	104.66	2397.13	49.61	55.05	30	PK	V

Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	HT20			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	101.01	2399.61	69.66	31.35	30	PK	V
2390-2400	2437	109.63	2392.62	62.95	46.68	30	PK	V
2390-2400	2462	101.89	2398.87	49.96	51.93	30	PK	V

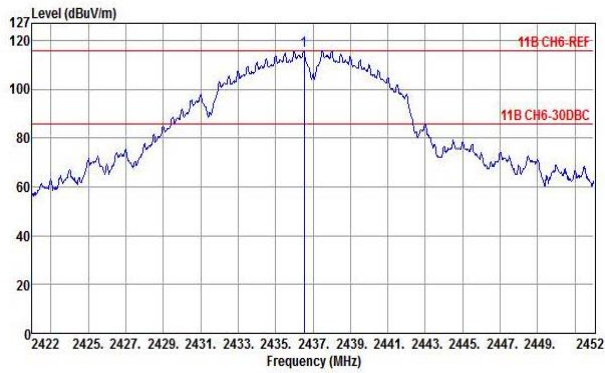
Unwanted Emissions into Non-Restricted Frequency Bands								
Modulation	HT40			N _{TX}	3			
Non-restricted Band (MHz)	Test Ch. Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	NBE Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Level Type	Pol. note 1
2390-2400	2412	96.12	2400.00	64.99	31.13	30	PK	V
2390-2400	2437	100.52	2391.97	62.39	38.13	30	PK	V
2390-2400	2462	99.07	2399.50	54.98	44.09	30	PK	V

Note 1: Measurement worst emissions of receive antenna polarization: H (Horizontal) or V (Vertical).

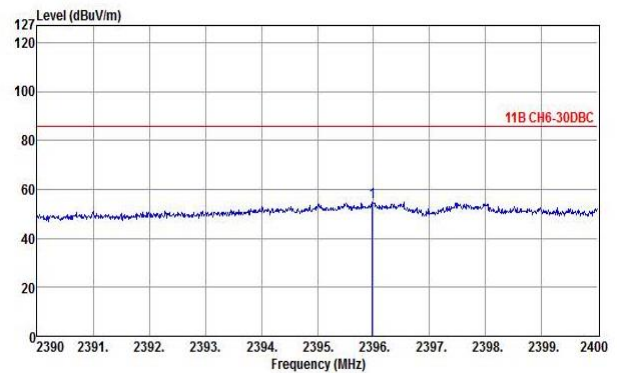
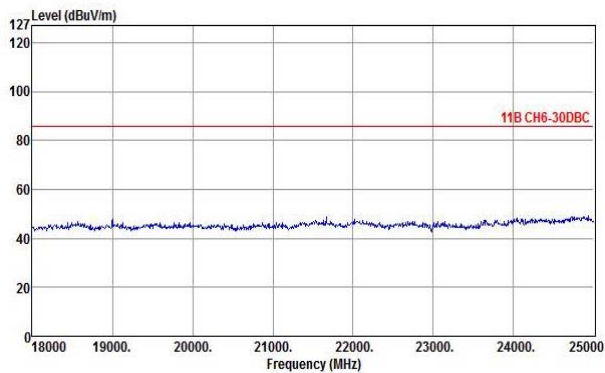
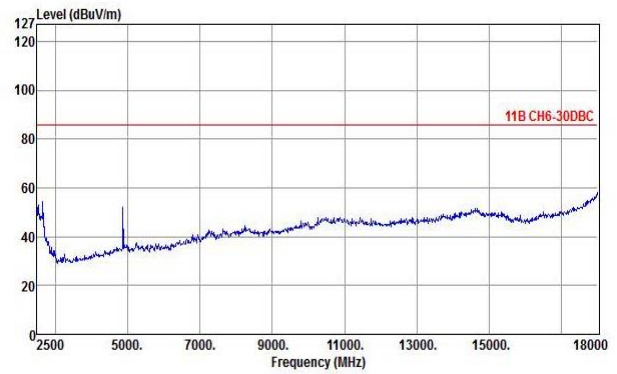
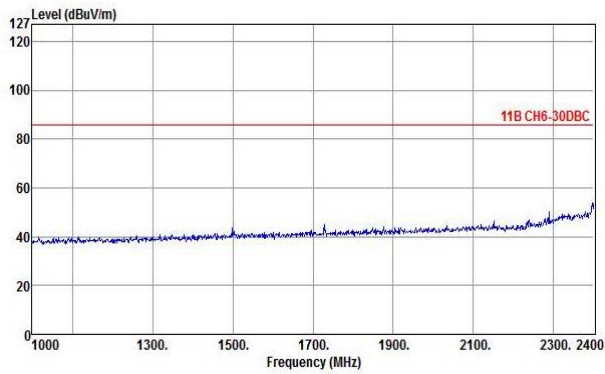
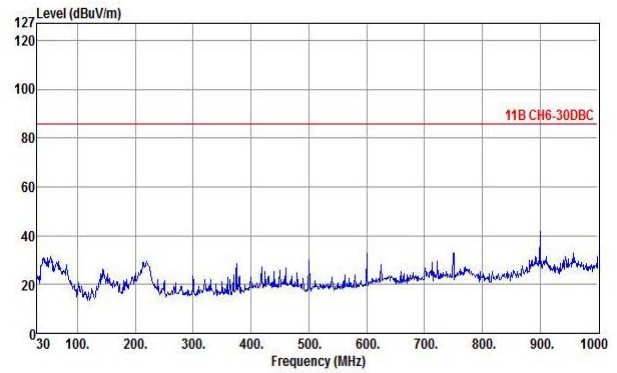
802.11b



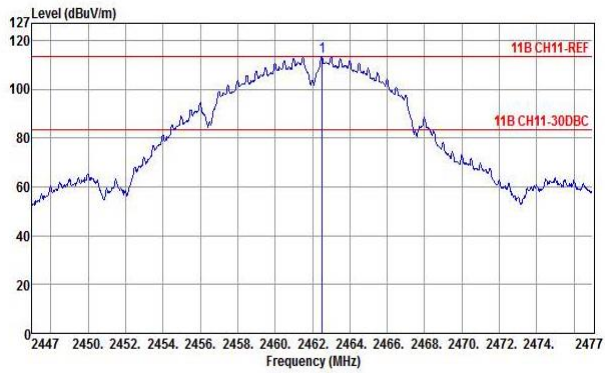
Reference Level



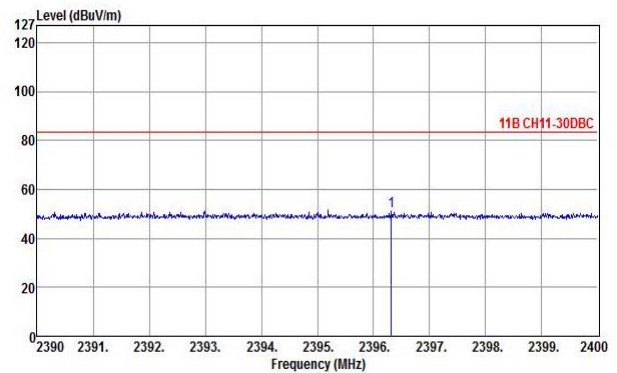
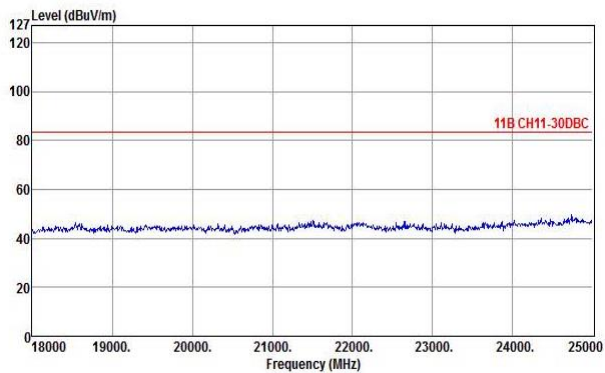
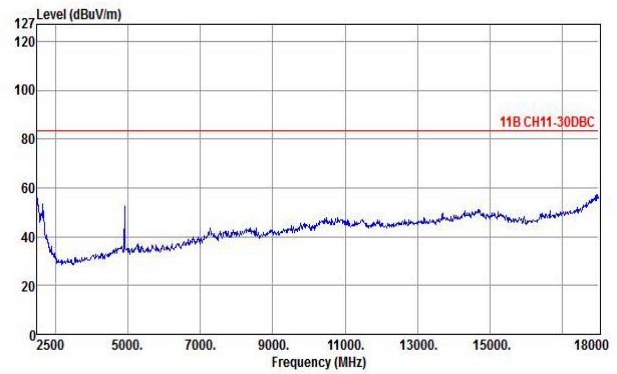
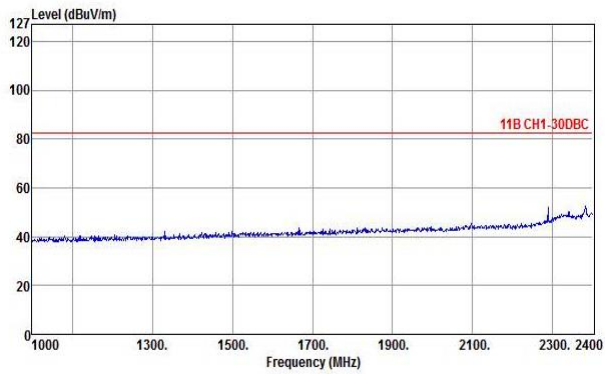
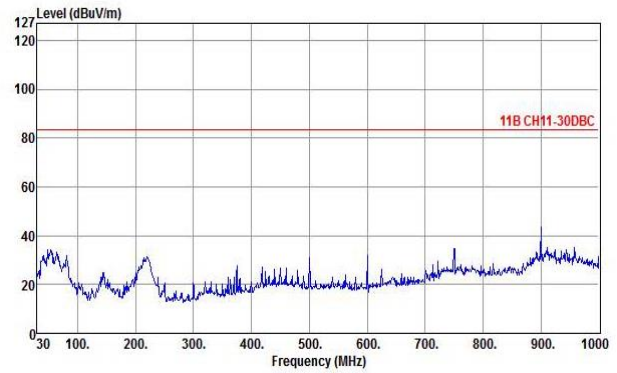
Tx 2437MHz / 30MHz~25GHz (down 30dBc)



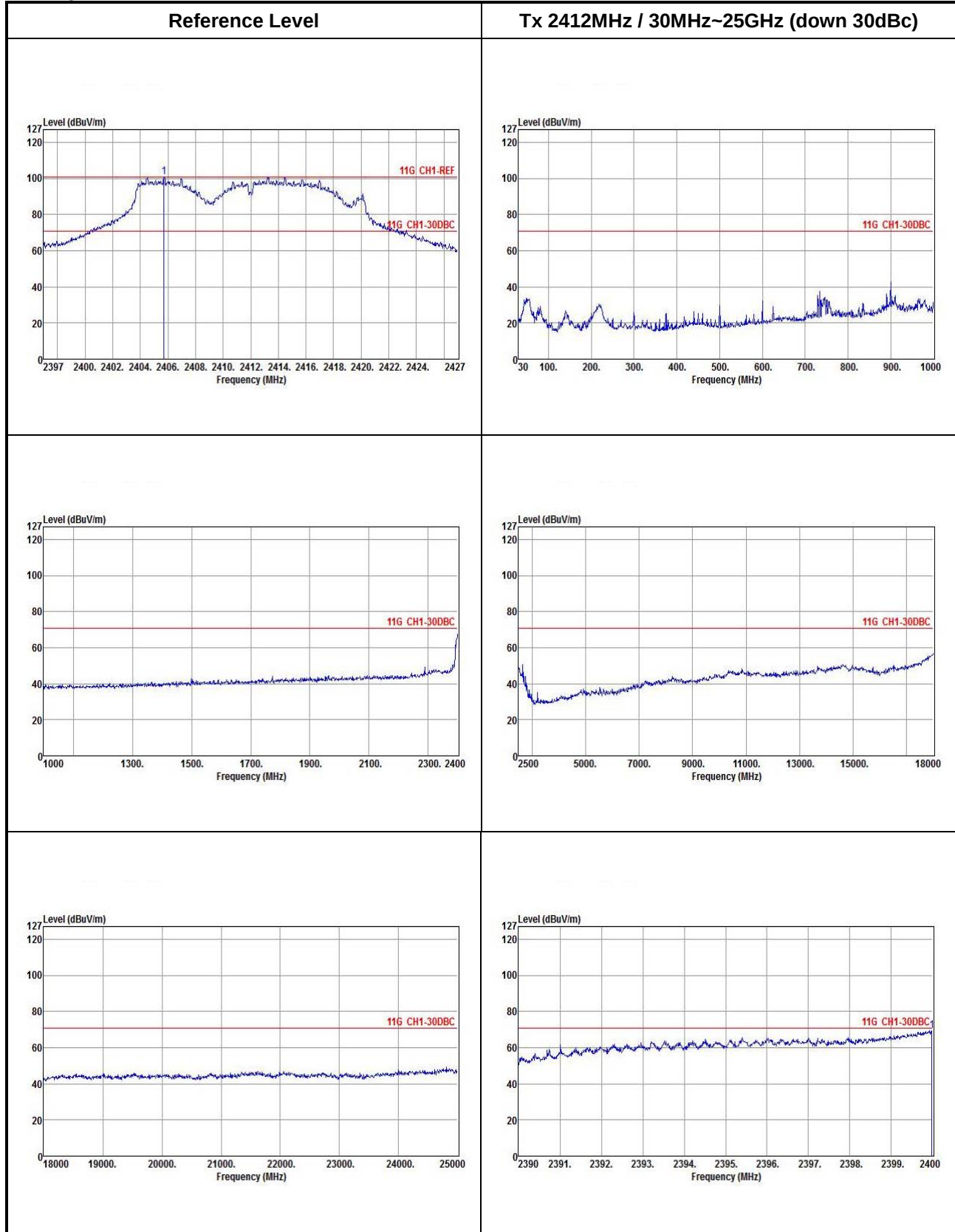
Reference Level



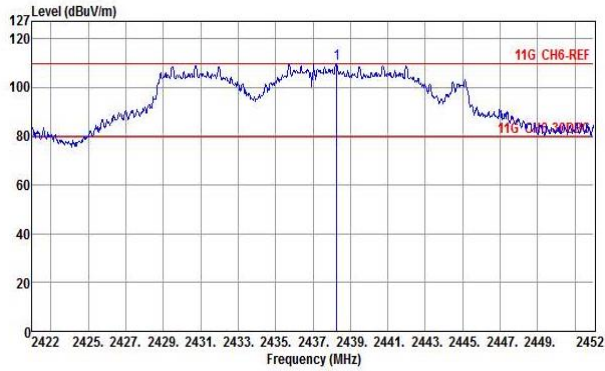
Tx 2462MHz / 30MHz~25GHz (down 30dBc)



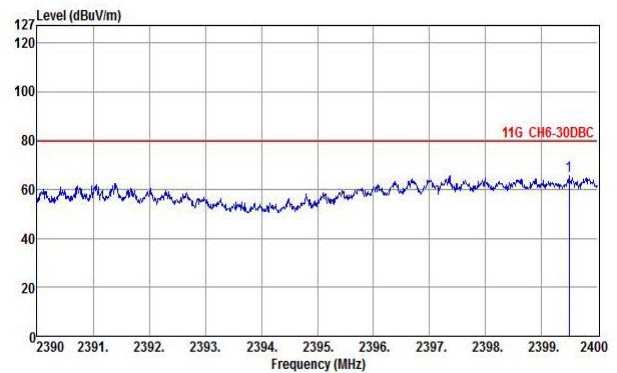
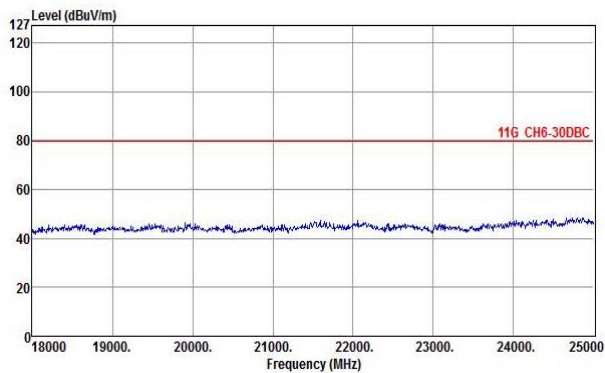
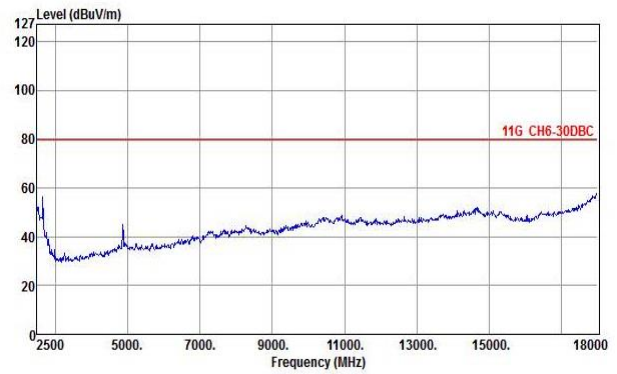
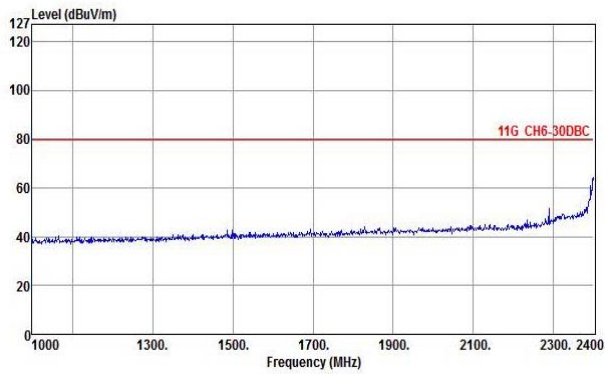
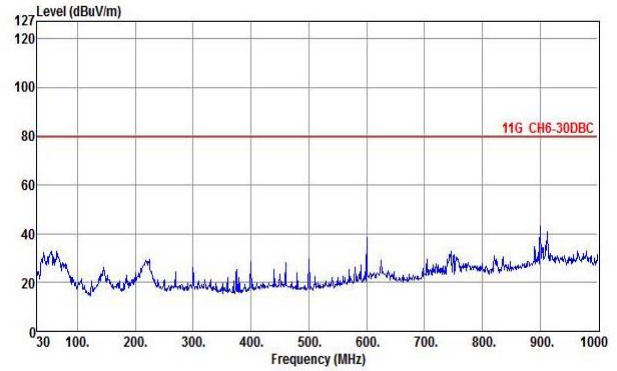
802.11g



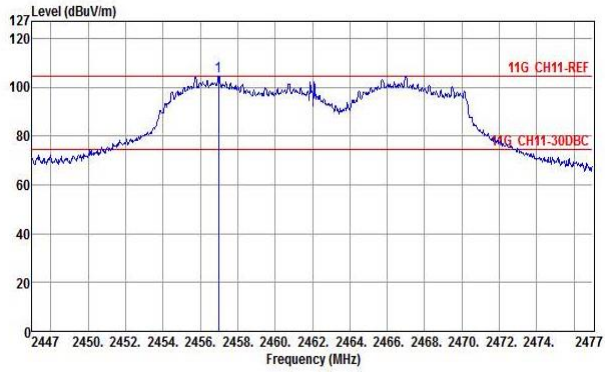
Reference Level



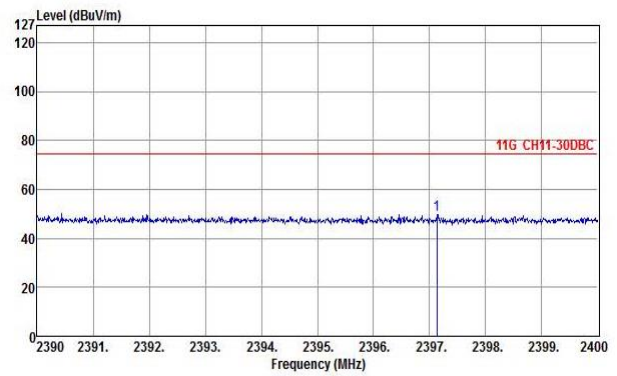
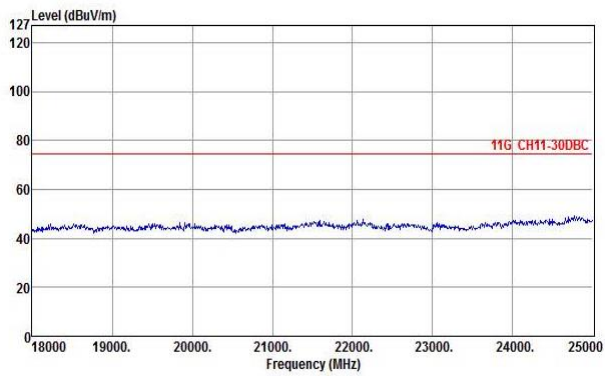
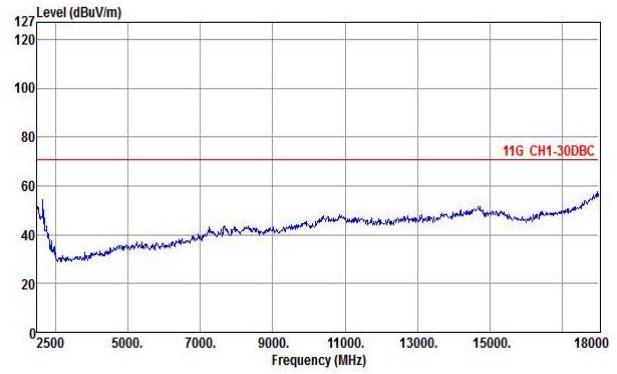
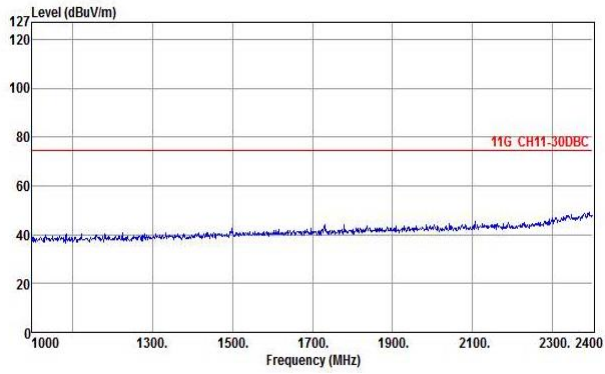
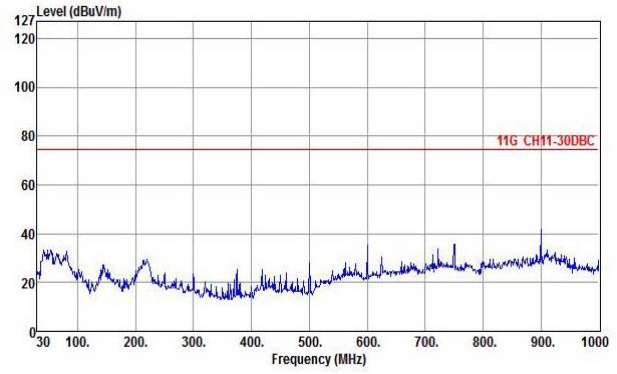
Tx 2437MHz / 30MHz~25GHz (down 30dBc)



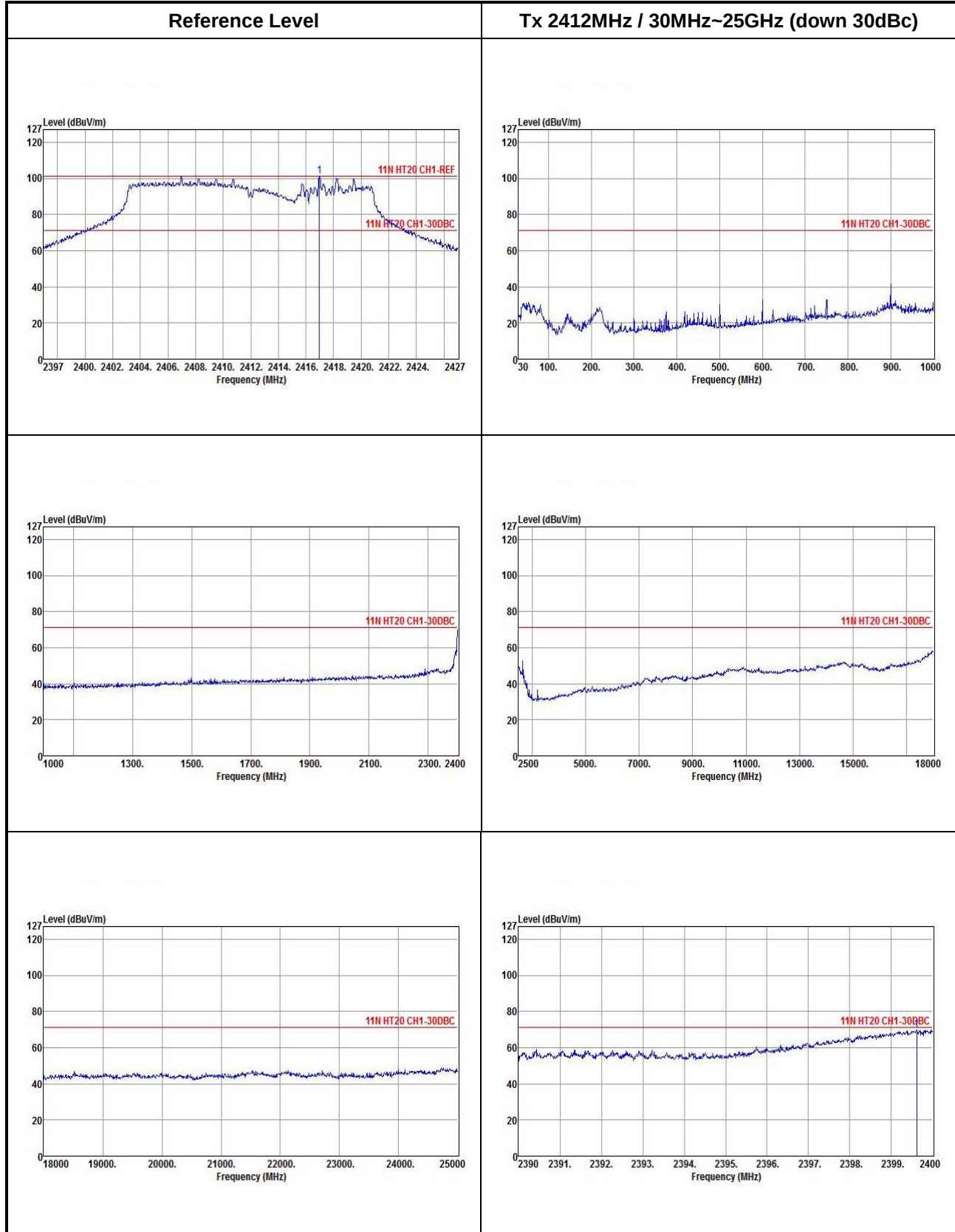
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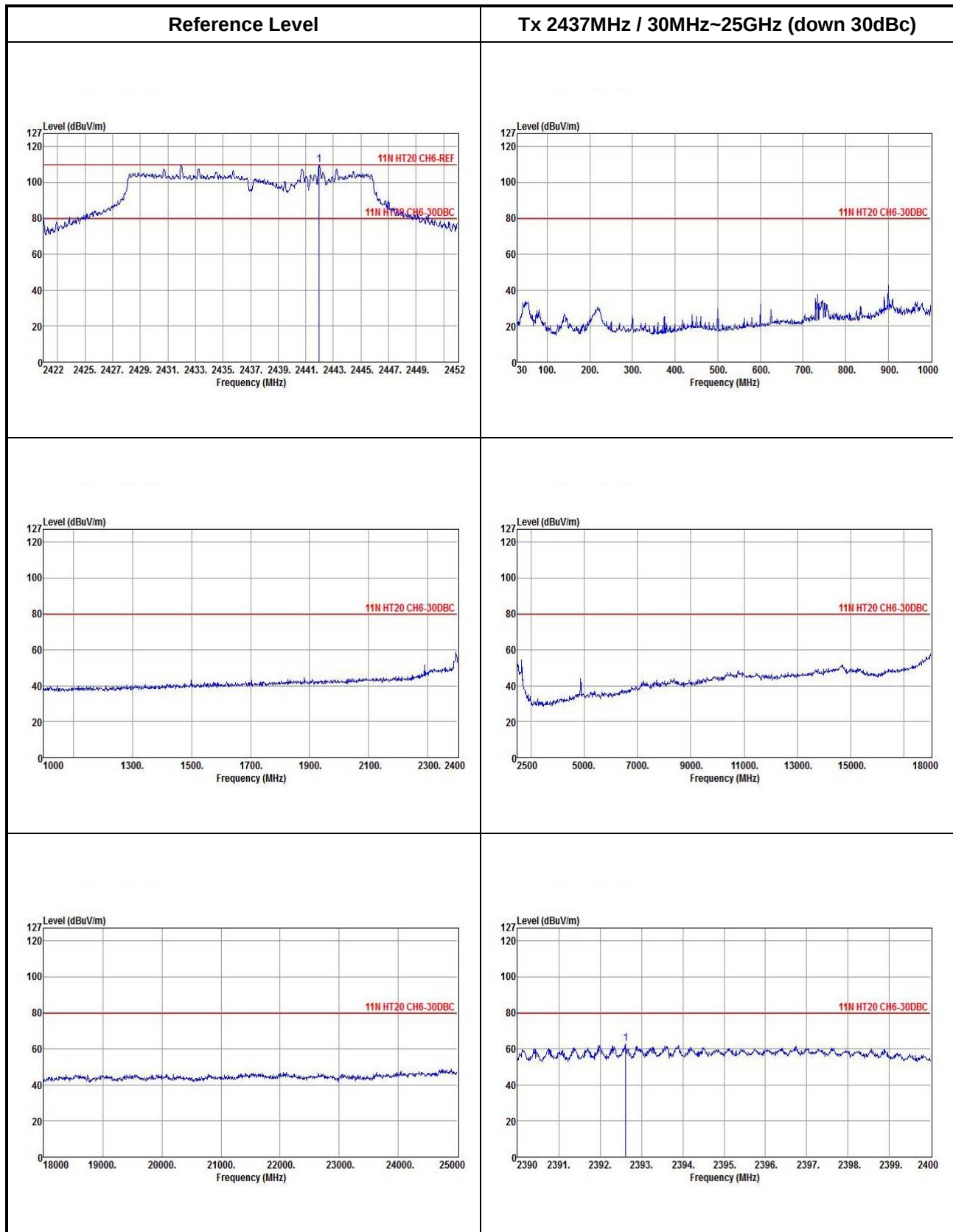


Tx 2462MHz / 30MHz~25GHz (down 30dBc)

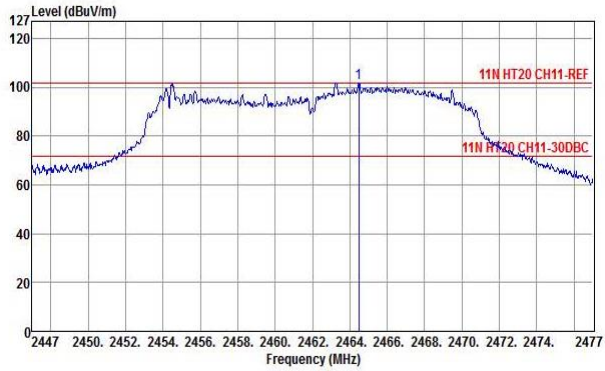


802.11n HT20

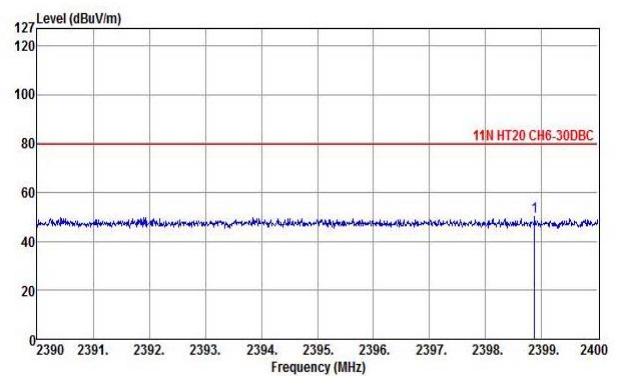
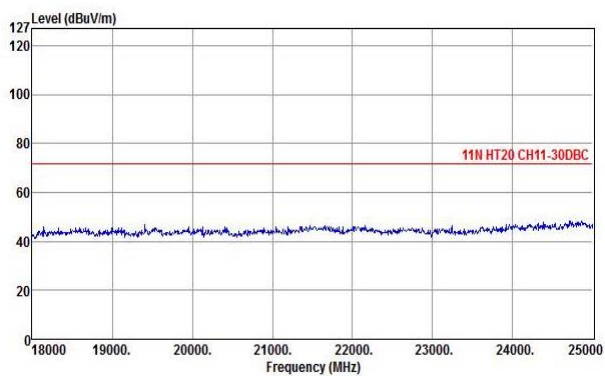
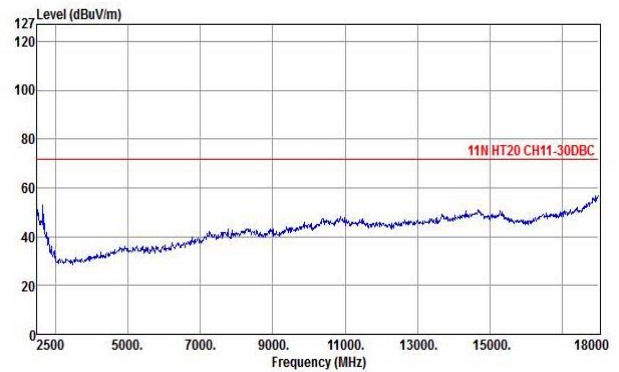
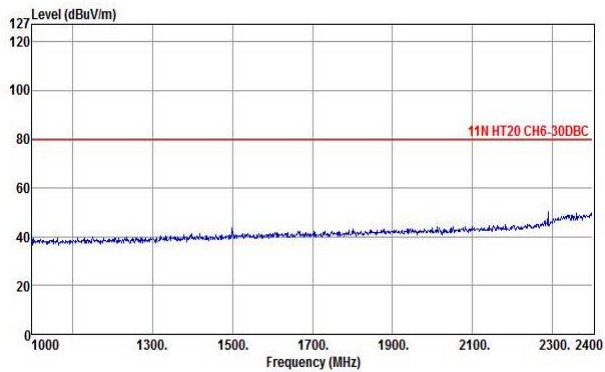
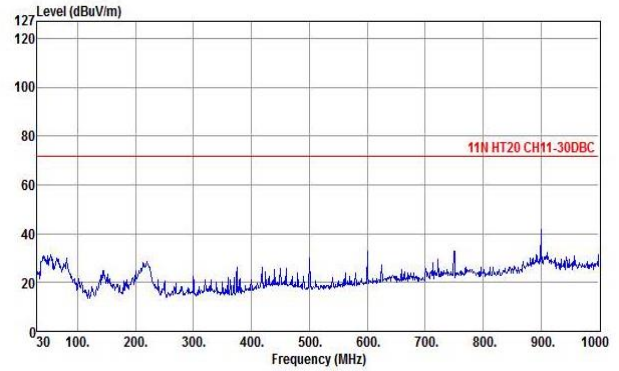




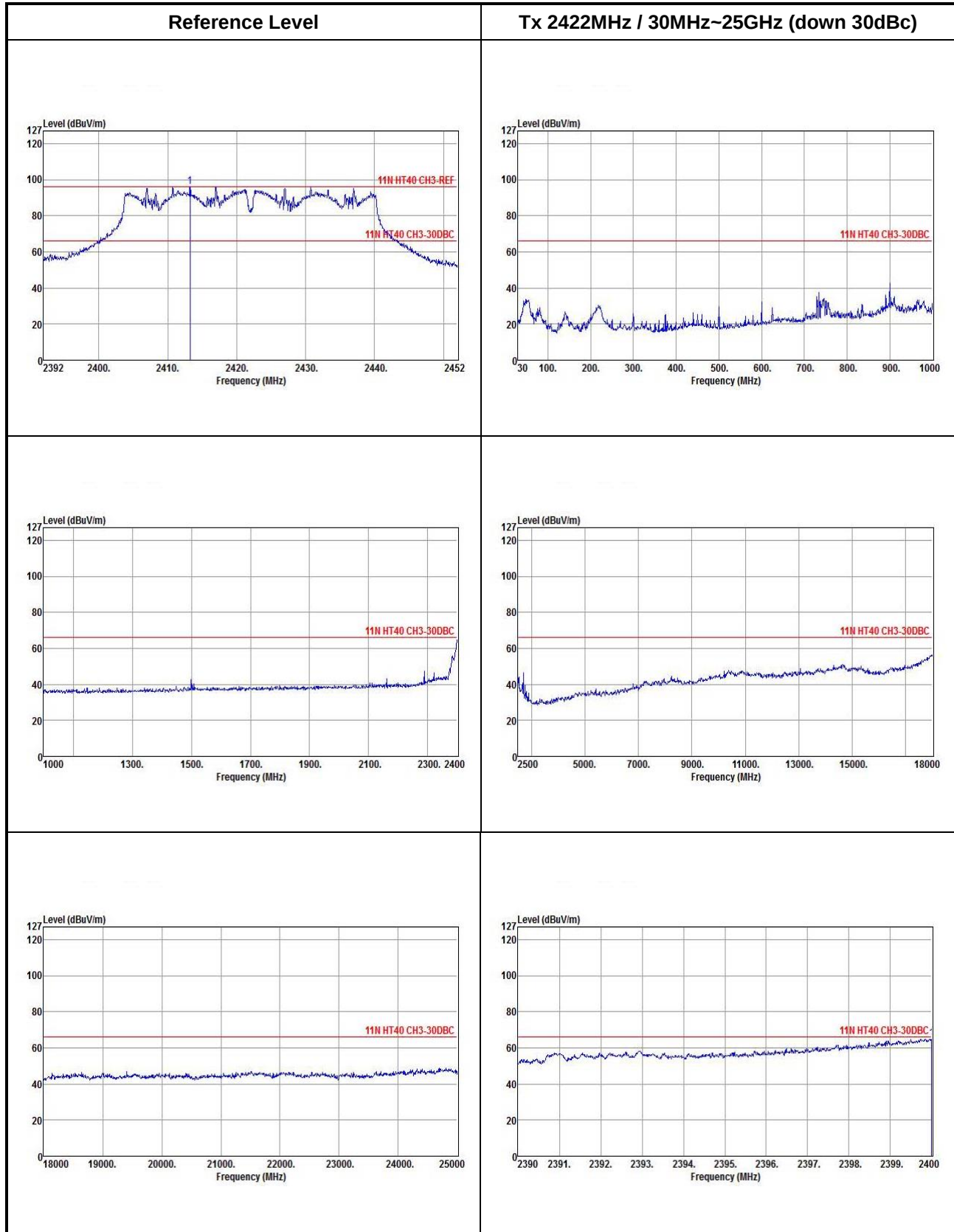
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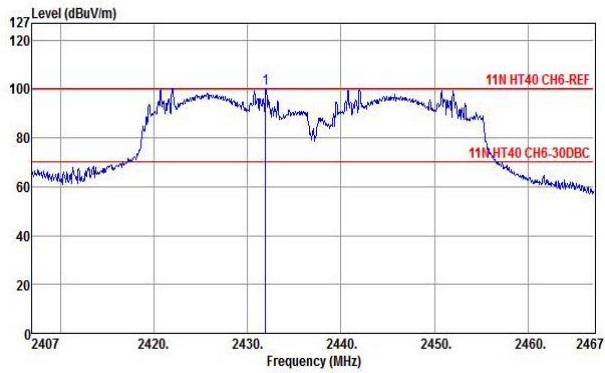
Tx 2462MHz / 30MHz~25GHz (down 30dBc)



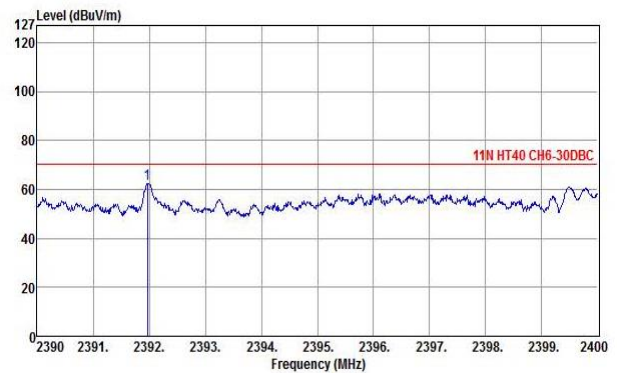
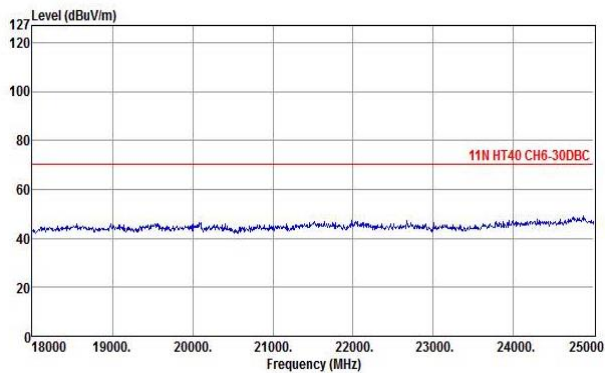
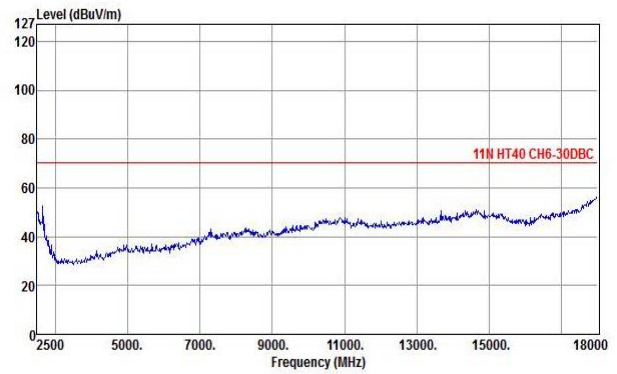
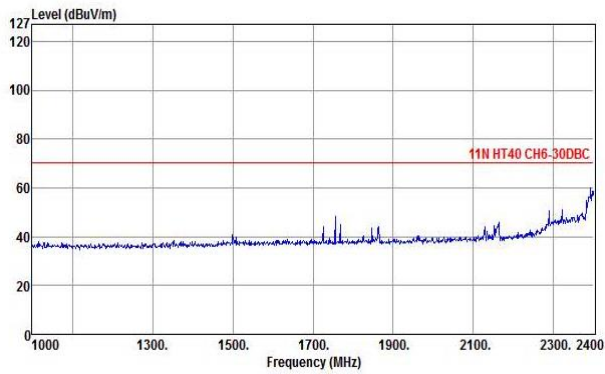
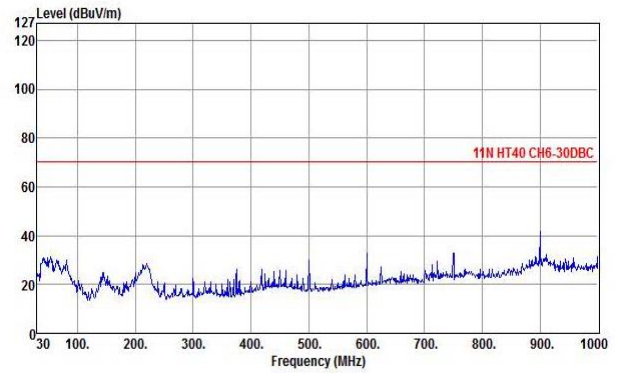
802.11n HT40



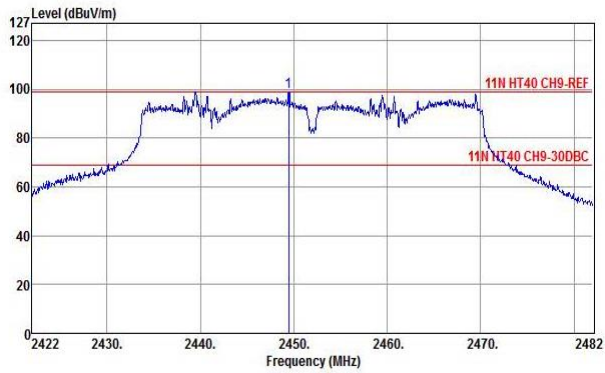
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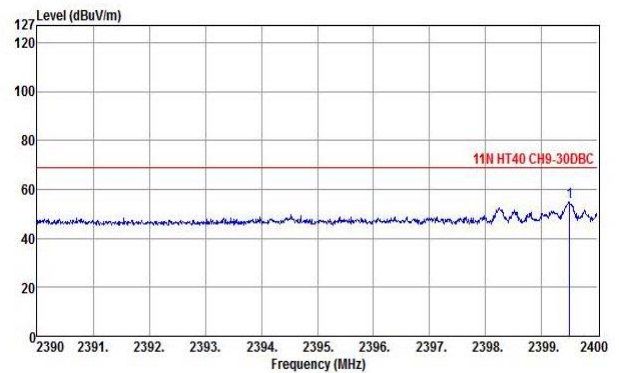
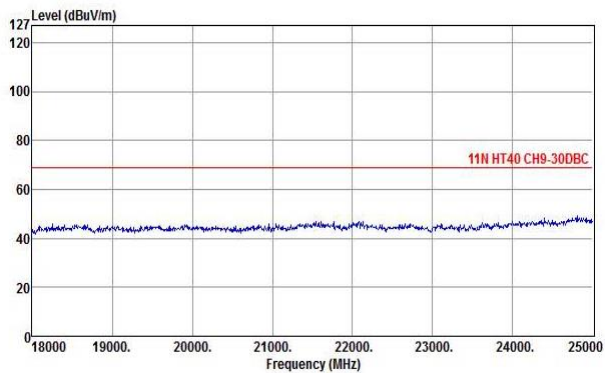
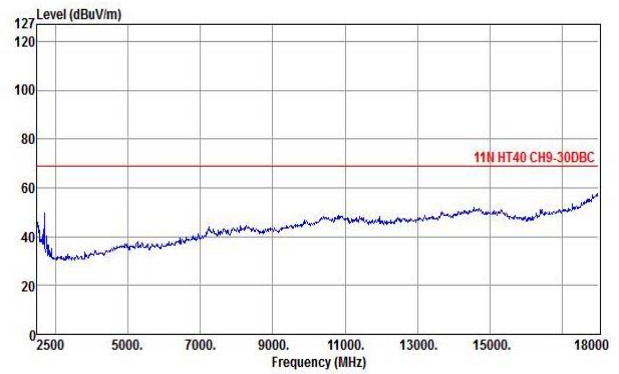
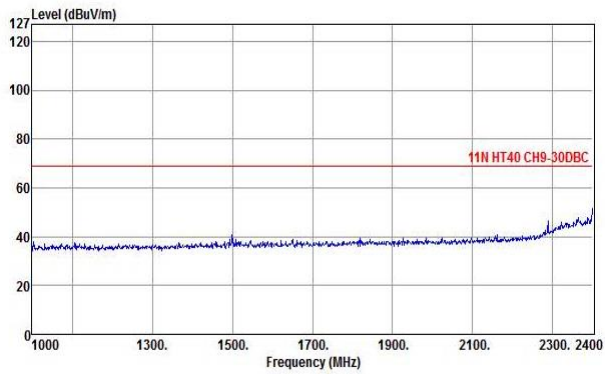
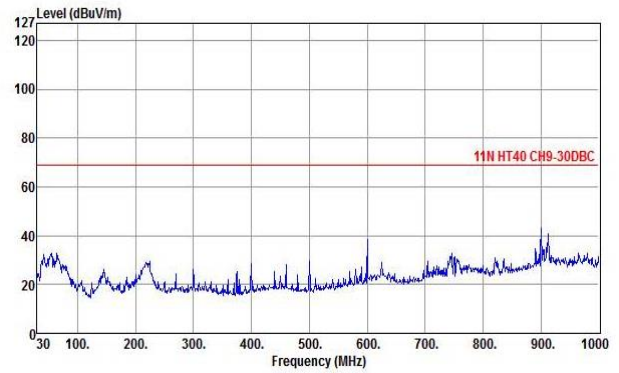
Tx 2437MHz / 30MHz~25GHz (down 30dBc)



Reference Level



Tx 2452MHz / 30MHz~25GHz (down 30dBc)



4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp, it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan Hsiang. Location map can be found on our website <http://www.icertifi.com.tw>.

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If you have any suggestion, please feel free to contact us as below information

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Email: ICC_Service@icertifi.com.tw

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