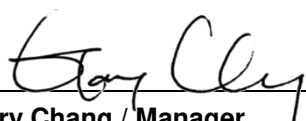


FCC C2PC Test Report

FCC ID : NKRDNXA-GO1
Equipment : 802.11 b/g/n 3*3 PCIe module
Model No. : DNXA-GO1
Brand Name : WNC
Applicant : Wistron NeWeb Corporation
Address : 20 Park Avenue II, Hsinchu Science Park,
Hsinchu 308,Taiwan,R.O.C.
Standard : 47 CFR FCC Part 15.247
Received Date : Mar. 21, 2016
Tested Date : Mar. 28 ~ Apr. 13, 2016

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



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Release Record

Report No.	Version	Description	Issued Date
FR421101-07	Rev. 01	Initial issue	Apr. 29, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.201MHz 50.93 (Margin -12.65dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz 72.98 (Margin -1.02dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 28.07	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

This report is prepared for FCC class II permissive change.

This report is issued as a supplementary report to original ICC report no. FR421101. The modification is concerned with additional set of antennas. Therefore, related tests had been re-tested and presented in the following sections.

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 Details (New set of antennas were marked in boldface.)

Set No.	Brand	Ant. No.	Model	Type	Gain (dBi)	Connector
A	WNC	1	NA	Printed	2	UFL
		2	NA	Printed	2	UFL
		3	NA	Printed	2	UFL
B	ethertronics	1	1002302	Printed	2.19	UFL
		2	1002303	Printed	3.33	UFL
		3	1002304	Printed	4.21	UFL
C	ethertronics	1	1003259	Printed	1.4	U.FL
		2	1003265	Printed	4.03	U.FL
		3	1003271	Printed	5.69	U.FL

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
--------------------------	------------------

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, ver_2_28_7		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11b	100.00%	0.00
	11g	98.46%	0.07
	HT20	98.35%	0.07
	HT40	95.26%	0.21

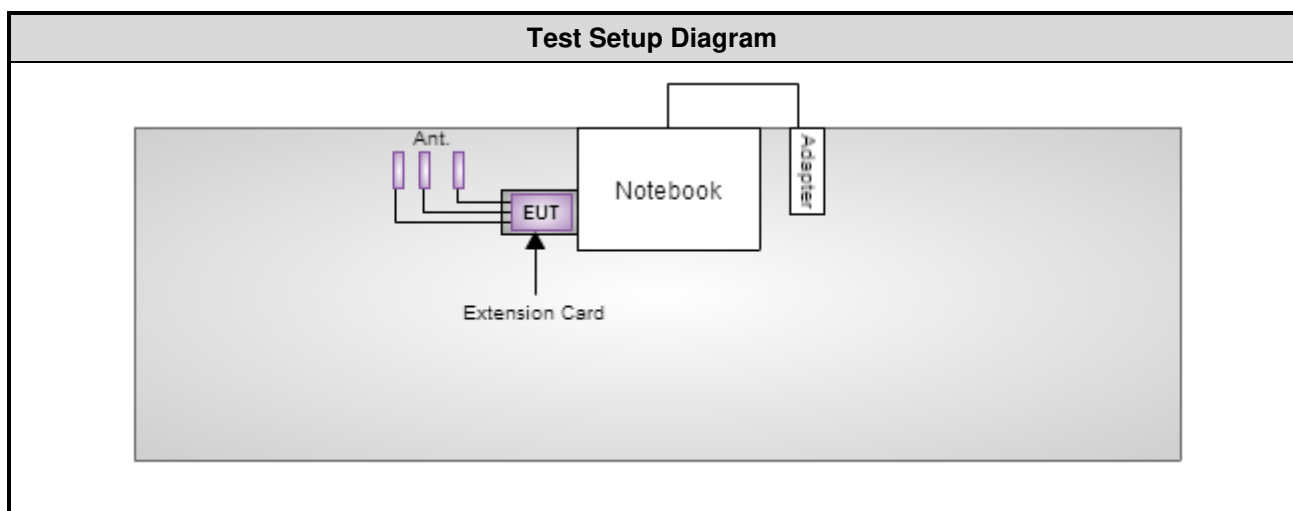
1.1.7 Power Setting

Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	20.5
11b	2437	20
11b	2462	20
11g	2412	17.5
11g	2437	24.5
11g	2462	17
HT20	2412	17.5
HT20	2437	24.5
HT20	2462	16
HT40	2422	14
HT40	2437	17
HT40	2452	13.5

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E6430	DoC	---
2.	Extension card	ICC	---	---	---

1.3 Test Setup Chart



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. 21, 2015	Oct. 20, 2016
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2015	Nov. 12, 2016
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 26, 2015	Nov. 25, 2016
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Dec. 21, 2015	Dec. 20, 2016
50 ohm terminal (Support Unit)	NA	50	04	Apr. 15, 2015	Apr. 14, 2016
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. 13, 2015	Dec. 12, 2016
Receiver	R&S	ESR3	101658	Nov. 04, 2015	Nov. 03, 2016
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 20, 2015	Aug. 19, 2016
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 16, 2015	Dec. 15, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Loop Antenna	R&S	HFH2-Z2	11900	Nov. 16, 2015	Nov. 15, 2016
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 10, 2015	Dec. 09, 2016
Preamplifier	Burgeon	BPA-530	SN:100219	Sep. 10, 2015	Sep. 09, 2016
Preamplifier	Agilent	83017A	MY39501308	Oct. 02, 2015	Oct. 01, 2016
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 10, 2015	Dec. 09, 2016
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 10, 2015	Dec. 09, 2016
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 10, 2015	Dec. 09, 2016
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. 17, 2016	Feb. 16, 2017
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
DC POWER SOURCE	GW INSTEK	GPC-3060D	EM884797	Oct. 20, 2015	Oct. 19, 2016
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 v03r05

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	±2.90 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.63 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 59%	Howard Huang
Radiated Emissions	03CH01-WS	22-23°C / 61-62%	Felix Sung Vincent Yeh
RF Conducted	TH01-WS	23°C / 62%	Anderson Hong

➤ FCC site registration No.: 181692

➤ IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	11g	2437	6 Mbps	---
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	---
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	---
Maximum Output Power	11g	2412 / 2437 / 2462	6 Mbps	
6dB bandwidth	HT20	2412 / 2437 / 2462	MCS 0	
Power spectral density	HT40	2422 / 2437 / 2452	MCS 0	
NOTE:				
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.				

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.

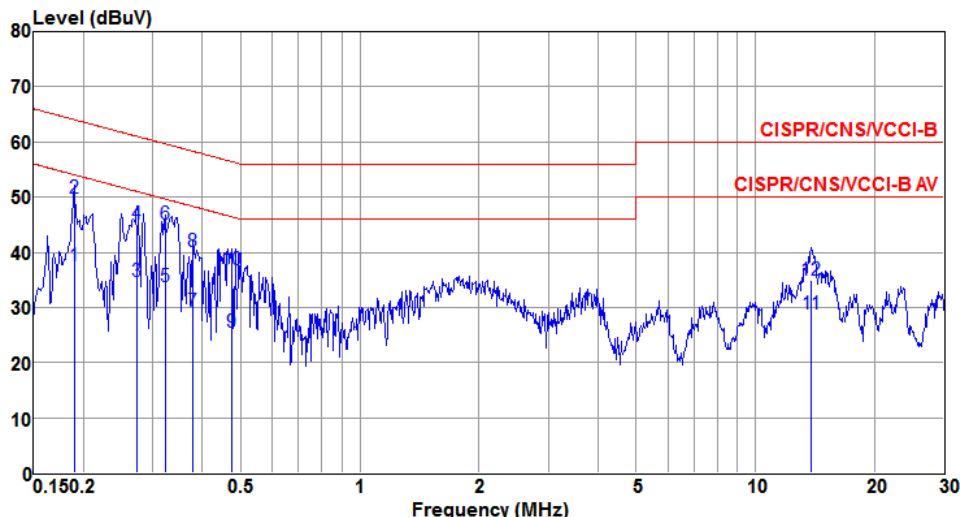
3.1.3 Test Setup



- 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

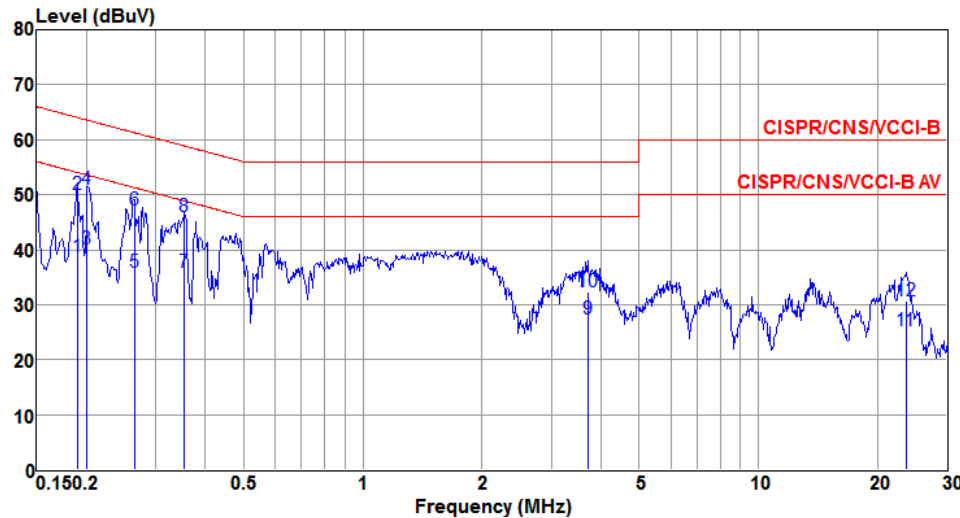
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line		



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.189	37.55	54.06	-16.51	37.42	0.11	0.02	Average
2	0.189	49.71	64.06	-14.35	49.58	0.11	0.02	QP
3	0.273	34.72	51.03	-16.31	34.58	0.12	0.02	Average
4	0.273	45.00	61.03	-16.03	44.86	0.12	0.02	QP
5	0.322	33.77	49.66	-15.89	33.62	0.12	0.03	Average
6	0.322	44.98	59.66	-14.68	44.83	0.12	0.03	QP
7	0.379	29.22	48.30	-19.08	29.06	0.13	0.03	Average
8	0.379	40.03	58.30	-18.27	39.87	0.13	0.03	QP
9	0.476	25.48	46.41	-20.93	25.31	0.13	0.04	Average
10	0.476	36.82	56.41	-19.59	36.65	0.13	0.04	QP
11	13.841	28.86	50.00	-21.14	28.36	0.30	0.20	Average
12	13.841	34.85	60.00	-25.15	34.35	0.30	0.20	QP

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

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



Freq	Level	Limit	Over	Read	LISN	cable		
MHz	dBuV	Line	Limit	Level	factor	loss	Remark	
		dBuV	dB	dBuV	dB	dB		
1	0.189	38.79	54.06	-15.27	38.66	0.11	0.02	Average
2	0.189	50.14	64.06	-13.92	50.01	0.11	0.02	QP
3	0.201	40.19	53.58	-13.39	40.07	0.10	0.02	Average
4	0.201	50.93	63.58	-12.65	50.81	0.10	0.02	QP
5	0.264	35.97	51.29	-15.32	35.83	0.12	0.02	Average
6	0.264	47.23	61.29	-14.06	47.09	0.12	0.02	QP
7	0.354	35.79	48.87	-13.08	35.63	0.13	0.03	Average
8	0.354	45.97	58.87	-12.90	45.81	0.13	0.03	QP
9	3.700	27.37	46.00	-18.63	27.08	0.17	0.12	Average
10	3.700	32.44	56.00	-23.56	32.15	0.17	0.12	QP
11	23.636	25.34	50.00	-24.66	24.67	0.44	0.23	Average
12	23.636	30.60	60.00	-29.40	29.93	0.44	0.23	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

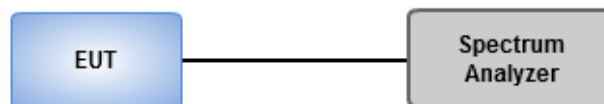
6dB Bandwidth

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.

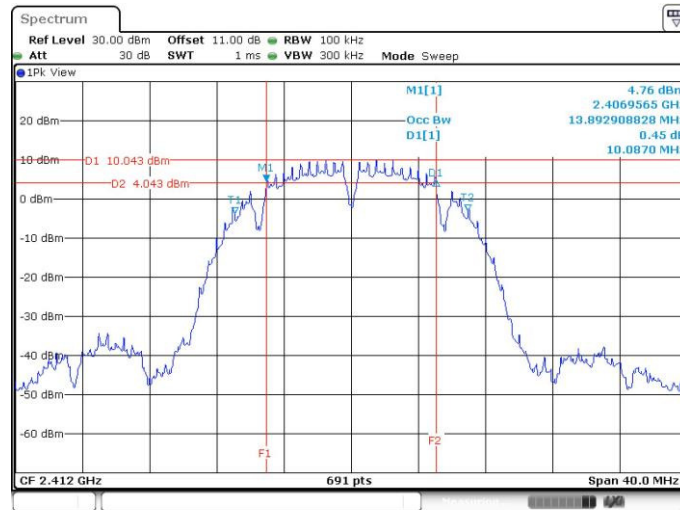
3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

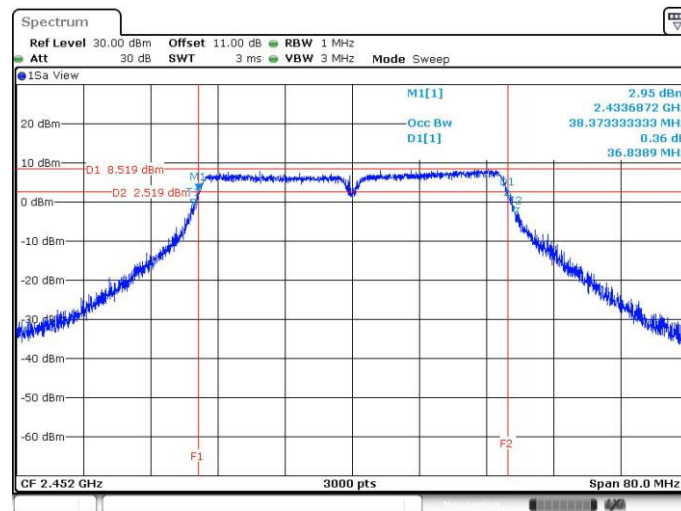
Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	3	2412	10.09	10.09	10.09	---	500
11b	3	2437	10.09	10.09	10.09	---	500
11b	3	2462	10.09	10.09	10.09	---	500
11g	3	2412	16.35	16.35	16.35	---	500
11g	3	2437	16.35	16.29	15.71	---	500
11g	3	2462	16.35	16.35	16.35	---	500
HT20	3	2412	17.57	17.57	17.57	---	500
HT20	3	2437	16.93	16.93	16.93	---	500
HT20	3	2462	17.57	17.33	17.51	---	500
HT40	3	2422	36.41	36.41	36.41	---	500
HT40	3	2437	36.06	36.41	36.06	---	500
HT40	3	2452	36.41	36.41	36.06	---	500

Worst Plot



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	3	2412	13.89	13.89	13.88	---
11b	3	2437	13.92	13.85	13.83	---
11b	3	2462	13.89	13.84	13.81	---
11g	3	2412	17.08	16.91	16.85	---
11g	3	2437	21.67	19.53	20.69	---
11g	3	2462	17.09	16.88	16.83	---
HT20	3	2412	18.13	18.05	17.96	---
HT20	3	2437	22.31	20.57	20.95	---
HT20	3	2462	18.13	18.01	17.97	---
HT40	3	2422	38.35	37.97	38.00	---
HT40	3	2437	38.35	37.97	37.95	---
HT40	3	2452	38.37	38.05	38.03	---

Worst Plot



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

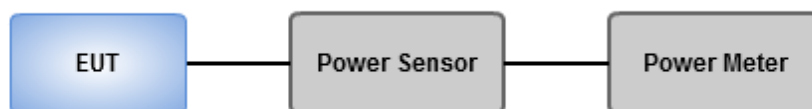
- ☒ Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.
- ☐ Antenna gain $> 6\text{dBi}$
 - ☐ Non Fixed, point to point operations.
The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna 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)							Ant. Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3	Total Power (mW)	Total Power (dBm)	Limit (dBm)			
11b	3	2412	20.13	19.29	19.93	---	286.358	24.57	30.00	5.69	30.26	36.00
11b	3	2437	19.92	19.42	19.75	---	280.079	24.47	30.00	5.69	30.16	36.00
11b	3	2462	19.79	19.59	19.93	---	284.672	24.54	30.00	5.69	30.23	36.00
11g	3	2412	17.33	17.17	17.55	---	163.080	22.12	30.00	5.69	27.81	36.00
11g	3	2437	23.46	23.03	23.38	---	640.500	28.07	30.00	5.69	33.76	36.00
11g	3	2462	17.25	16.87	17.01	---	151.963	21.82	30.00	5.69	27.51	36.00
HT20	3	2412	17.13	16.91	17.48	---	156.708	21.95	30.00	5.69	27.64	36.00
HT20	3	2437	23.39	22.91	23.50	---	637.579	28.05	30.00	5.69	33.74	36.00
HT20	3	2462	16.44	15.64	15.80	---	118.718	20.75	30.00	5.69	26.44	36.00
HT40	3	2422	14.43	13.54	14.35	---	77.555	18.90	30.00	5.69	24.59	36.00
HT40	3	2437	17.01	16.58	17.32	---	149.684	21.75	30.00	5.69	27.44	36.00
HT40	3	2452	13.92	12.93	13.40	---	66.172	18.21	30.00	5.69	23.90	36.00

Note: Conducted average output power is for reference only.

3.4 Power Spectral Density

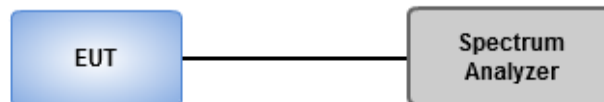
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

- ☒ Maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 30kHz, VBW = 100kHz.
 2. Detector = Peak, Sweep time = auto couple.
 3. Trace mode = max hold, allow trace to fully stabilize.
 4. Use the peak marker function to determine the maximum amplitude level.
- ☐ Maximum (average) conducted output power was used to demonstrate compliance to the fundamental output power limit.
 1. Set the RBW = 100kHz, VBW = 300 kHz.
 2. Detector = RMS, Sweep time = auto couple.
 3. Perform the measurement over a single sweep.
 4. Use the peak marker function to determine the maximum amplitude level.

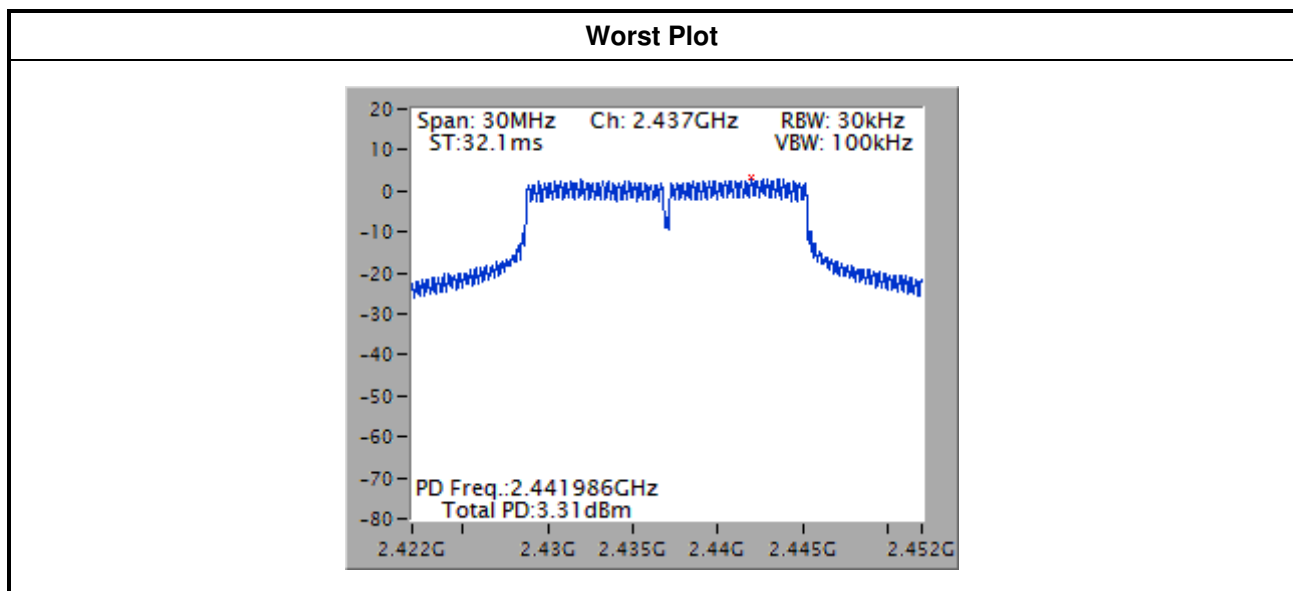
3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	3	2412	1.36	8.00
11b	3	2437	1.16	8.00
11b	3	2462	1.15	8.00
11g	3	2412	-3.16	8.00
11g	3	2437	3.31	8.00
11g	3	2462	-3.55	8.00
HT20	3	2412	-3.31	8.00
HT20	3	2437	2.78	8.00
HT20	3	2462	-4.74	8.00
HT40	3	2422	-8.75	8.00
HT40	3	2437	-5.57	8.00
HT40	3	2452	-8.40	8.00

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



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

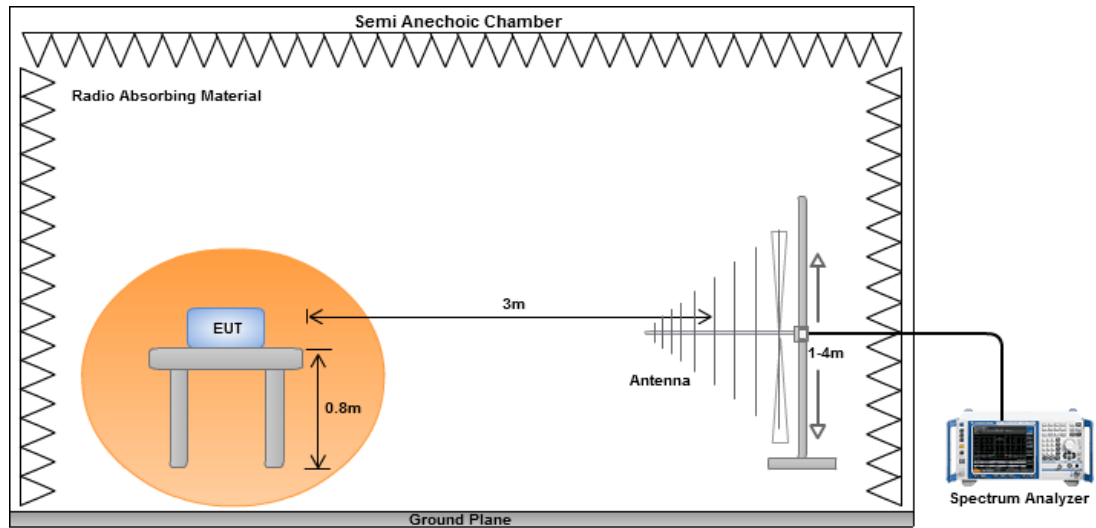
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

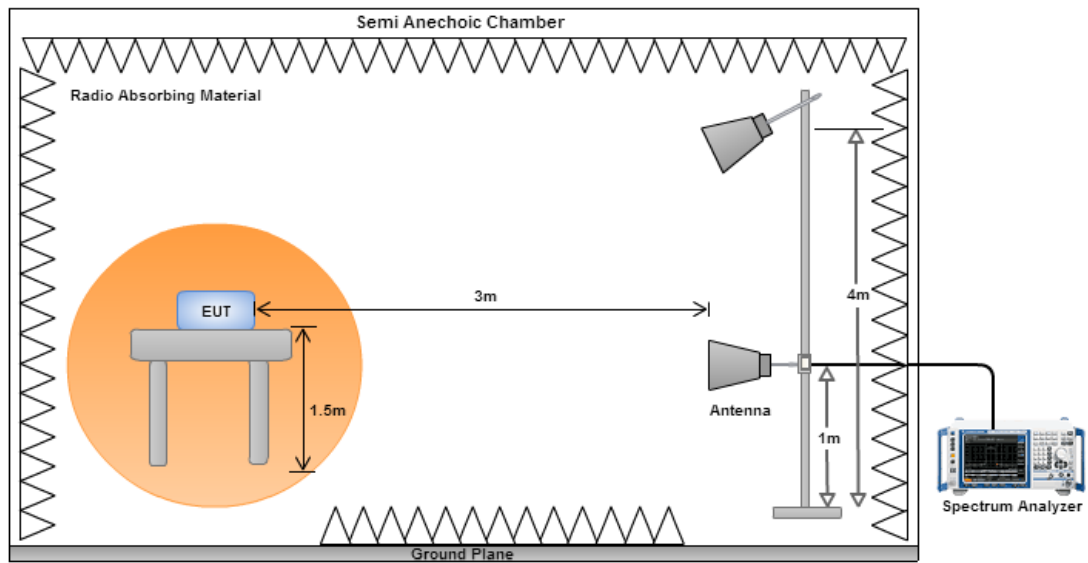
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



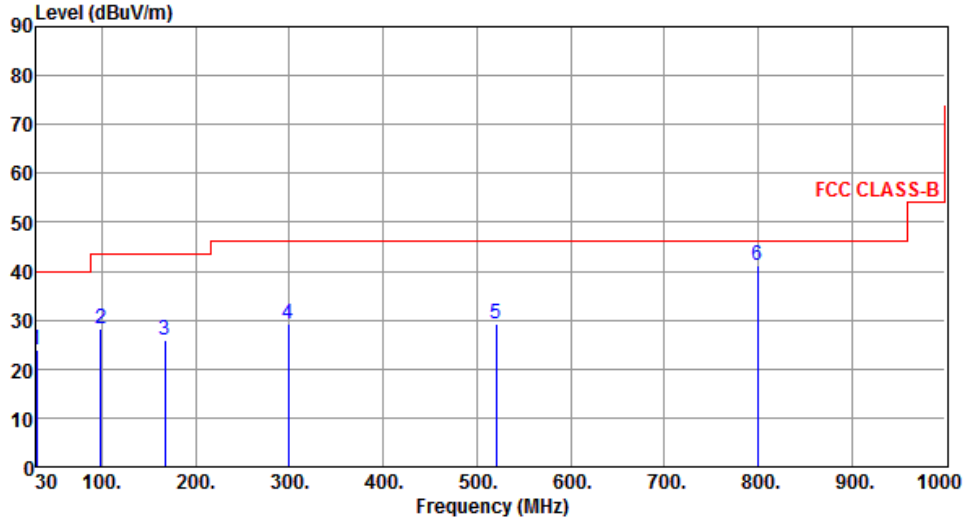
Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBuV/m)			

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

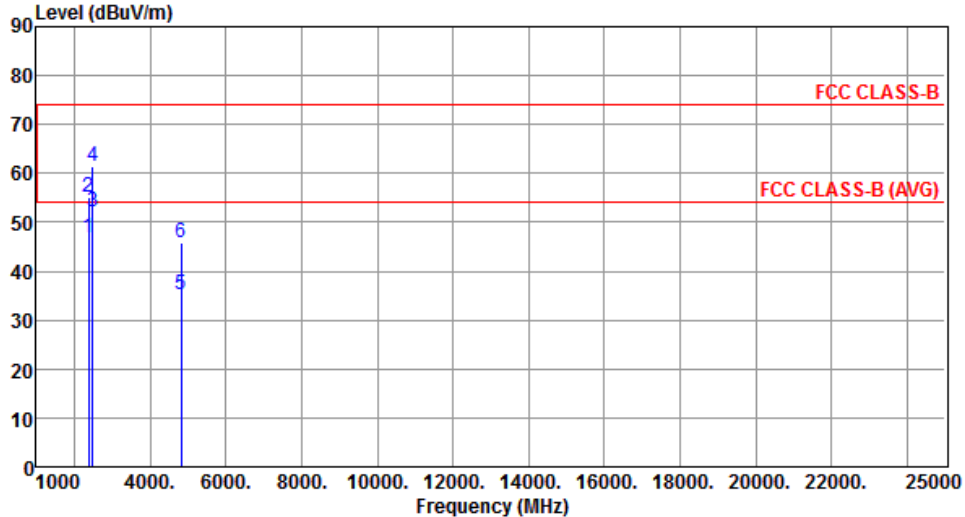


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.00	23.80	40.00	-16.20	41.62	-17.82	Peak	---	---
2	98.87	28.35	43.50	-15.15	49.85	-21.50	Peak	---	---
3	166.77	25.78	43.50	-17.72	42.73	-16.95	Peak	---	---
4	298.69	29.17	46.00	-16.83	44.99	-15.82	Peak	---	---
5	520.82	29.36	46.00	-16.64	40.22	-10.86	Peak	---	---
6	799.21	41.27	46.00	-4.73	47.79	-6.52	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		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	46.81	54.00	-7.19	50.16	-3.35	Average	159	152
2	2390.00	55.15	74.00	-18.85	58.50	-3.35	Peak	159	152
3	2494.00	52.14	54.00	-1.86	55.03	-2.89	Average	157	159
4	2494.00	61.33	74.00	-12.67	64.22	-2.89	Peak	157	159
5	4824.00	35.12	54.00	-18.88	31.53	3.59	Average	221	168
6	4824.00	45.78	74.00	-28.22	42.19	3.59	Peak	221	168

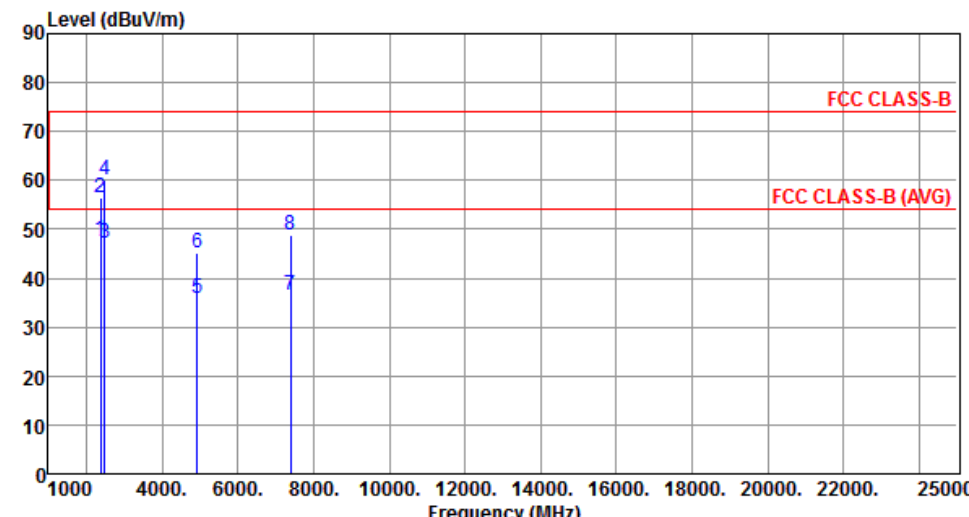
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor , cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		
Level (dBUV/m) <			

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBUV/m) </			

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBUV/m) </			

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



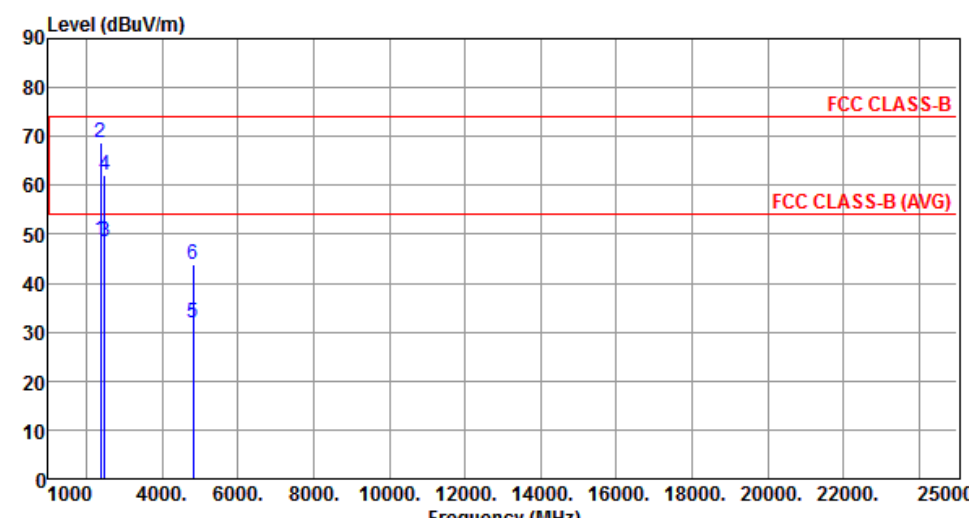
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2377.00	47.86	54.00	-6.14	51.26	-3.40	Average	296	185
2	2377.00	56.60	74.00	-17.40	60.00	-3.40	Peak	296	185
3	2483.50	47.18	54.00	-6.82	50.11	-2.93	Average	376	167
4	2483.50	60.15	74.00	-13.85	63.08	-2.93	Peak	376	167
5	4924.00	35.80	54.00	-18.20	31.89	3.91	Average	222	169
6	4924.00	45.03	74.00	-28.97	41.12	3.91	Peak	222	169
7	7386.00	36.64	54.00	-17.36	28.18	8.46	Average	186	238
8	7386.00	48.89	74.00	-25.11	40.43	8.46	Peak	186	238

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		
Level (dBUV/m) <			

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

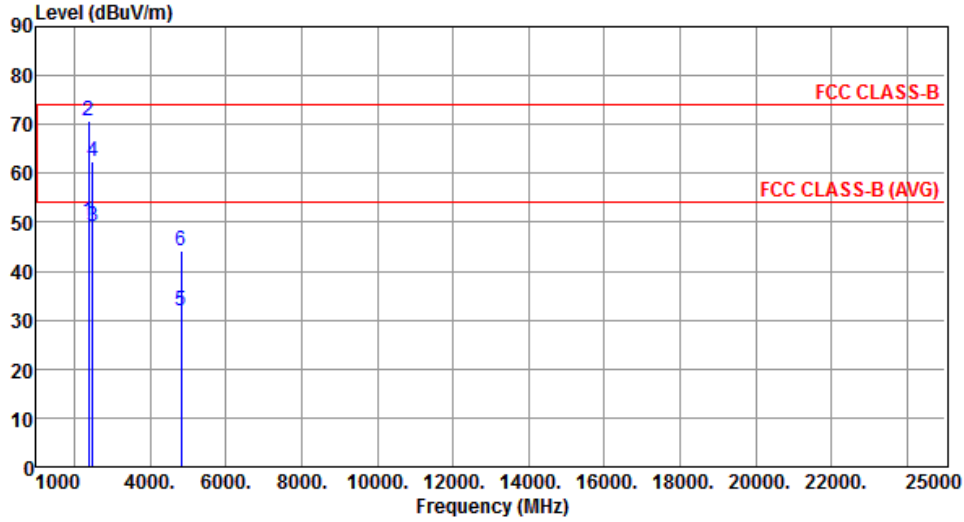
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	48.85	54.00	-5.15	52.20	-3.35	Average	222	39
2	2390.00	68.64	74.00	-5.36	71.99	-3.35	Peak	222	39
3	2494.00	48.32	54.00	-5.68	51.21	-2.89	Average	222	39
4	2494.00	62.25	74.00	-11.75	65.14	-2.89	Peak	222	39
5	4824.00	31.88	54.00	-22.12	28.29	3.59	Average	199	211
6	4824.00	43.94	74.00	-30.06	40.35	3.59	Peak	199	211

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		

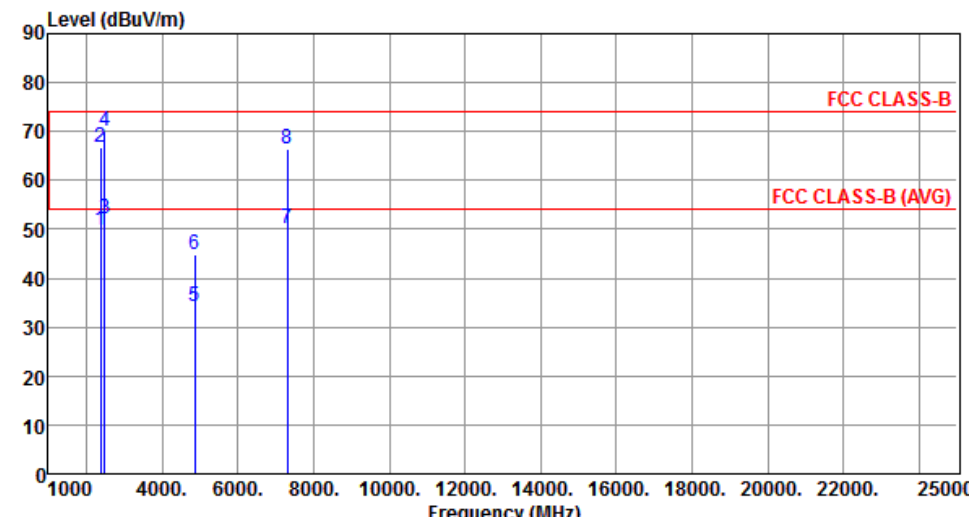


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.21	54.00	-3.79	53.56	-3.35	Average	251	233
2	2390.00	70.69	74.00	-3.31	74.04	-3.35	Peak	251	233
3	2494.00	49.30	54.00	-4.70	52.19	-2.89	Average	262	234
4	2494.00	62.30	74.00	-11.70	65.19	-2.89	Peak	262	234
5	4824.00	32.02	54.00	-21.98	28.43	3.59	Average	187	326
6	4824.00	44.28	74.00	-29.72	40.69	3.59	Peak	187	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	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBuV/m) </			

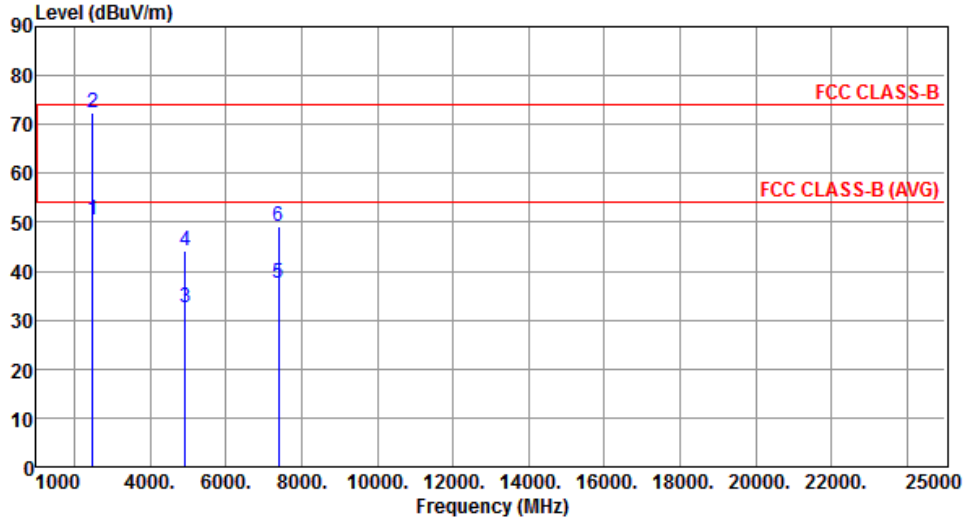
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	49.82	54.00	-4.18	53.17	-3.35	Average	226	228
2	2390.00	66.84	74.00	-7.16	70.19	-3.35	Peak	226	228
3	2483.50	52.11	54.00	-1.89	55.04	-2.93	Average	226	228
4	2483.50	70.22	74.00	-3.78	73.15	-2.93	Peak	226	228
5	4874.00	34.29	54.00	-19.71	30.54	3.75	Average	268	143
6	4874.00	44.79	74.00	-29.21	41.04	3.75	Peak	268	143
7	7311.00	50.21	54.00	-3.79	41.79	8.42	Average	259	78
8	7311.00	66.32	74.00	-7.68	57.90	8.42	Peak	259	78

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		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	50.55	54.00	-3.45	53.48	-2.93	Average	384	194
2	2483.50	72.51	74.00	-1.49	75.44	-2.93	Peak	384	194
3	4924.00	32.57	54.00	-21.43	28.66	3.91	Average	226	183
4	4924.00	44.24	74.00	-29.76	40.33	3.91	Peak	226	183
5	7386.00	37.59	54.00	-16.41	29.13	8.46	Average	321	111
6	7386.00	49.25	74.00	-24.75	40.79	8.46	Peak	321	111

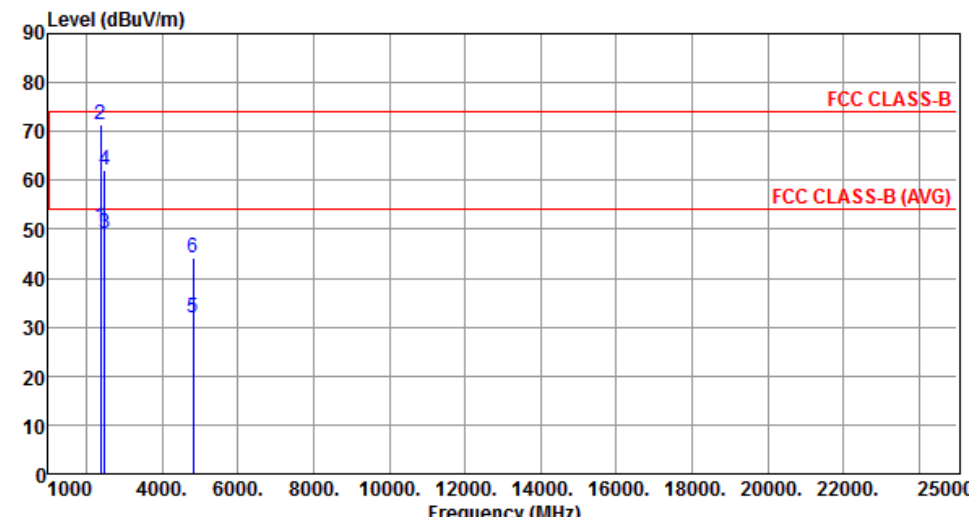
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical		
Level (dBuV/m) <			

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

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		
Level (dBuV/m) </			

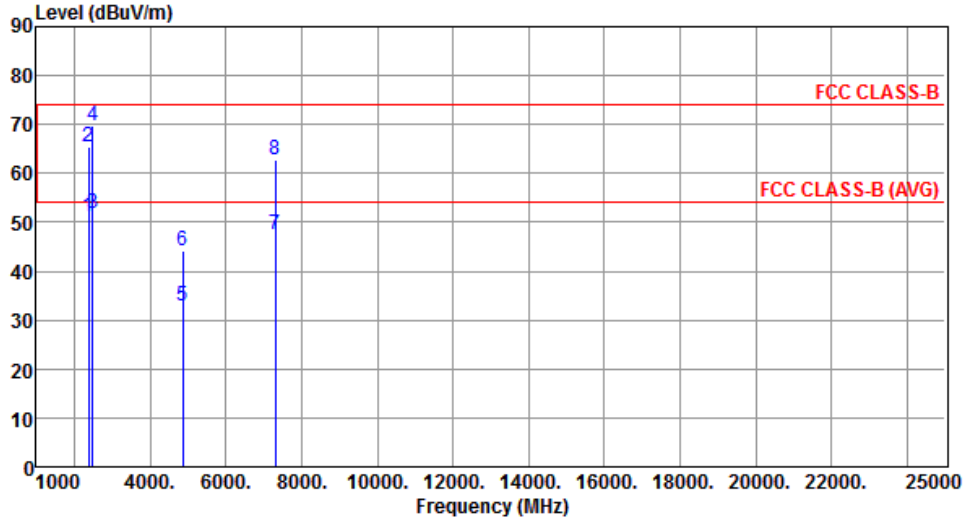
Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.64	54.00	-3.36	53.99	-3.35	Average	255	229
2	2390.00	71.31	74.00	-2.69	74.66	-3.35	Peak	255	229
3	2494.00	49.14	54.00	-4.86	52.03	-2.89	Average	255	229
4	2494.00	62.02	74.00	-11.98	64.91	-2.89	Peak	255	229
5	4824.00	31.94	54.00	-22.06	28.35	3.59	Average	188	311
6	4824.00	44.12	74.00	-29.88	40.53	3.59	Peak	188	311

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).

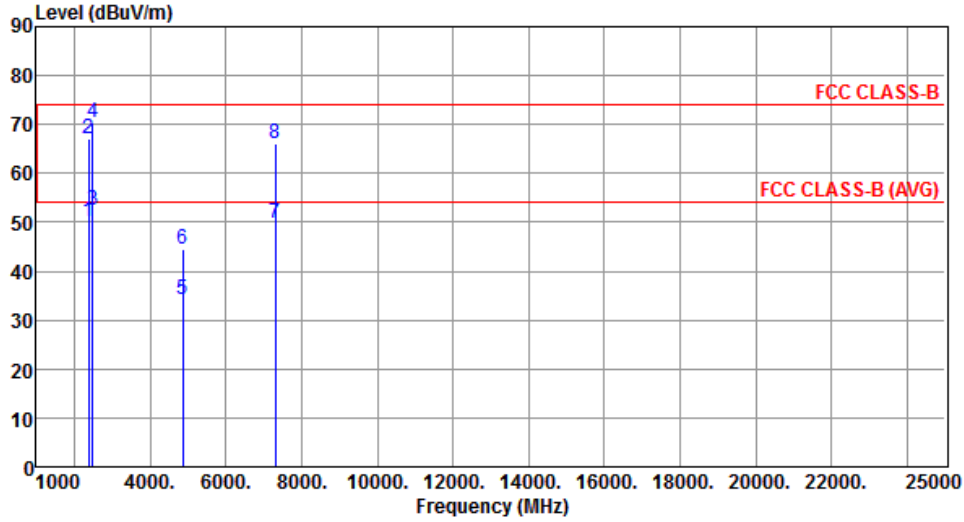
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.10	54.00	-2.90	54.45	-3.35	Average	103	306
2	2390.00	65.35	74.00	-8.65	68.70	-3.35	Peak	103	306
3	2483.50	51.66	54.00	-2.34	54.59	-2.93	Average	141	154
4	2483.50	69.69	74.00	-4.31	72.62	-2.93	Peak	141	154
5	4874.00	32.75	54.00	-21.25	29.00	3.75	Average	221	165
6	4874.00	44.11	74.00	-29.89	40.36	3.75	Peak	221	165
7	7311.00	47.54	54.00	-6.46	39.12	8.42	Average	300	326
8	7311.00	62.84	74.00	-11.16	54.42	8.42	Peak	300	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).

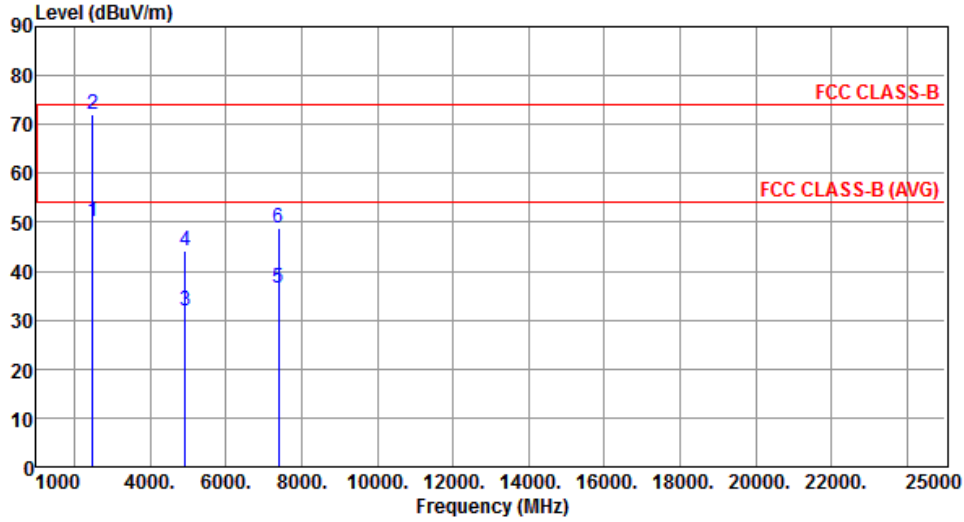
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.24	54.00	-3.76	53.59	-3.35	Average	241	231
2	2390.00	67.24	74.00	-6.76	70.59	-3.35	Peak	241	231
3	2483.50	52.42	54.00	-1.58	55.35	-2.93	Average	241	231
4	2483.50	70.40	74.00	-3.60	73.33	-2.93	Peak	241	231
5	4874.00	34.05	54.00	-19.95	30.30	3.75	Average	266	159
6	4874.00	44.35	74.00	-29.65	40.60	3.75	Peak	266	159
7	7311.00	49.76	54.00	-4.24	41.34	8.42	Average	255	68
8	7311.00	66.16	74.00	-7.84	57.74	8.42	Peak	255	68

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).

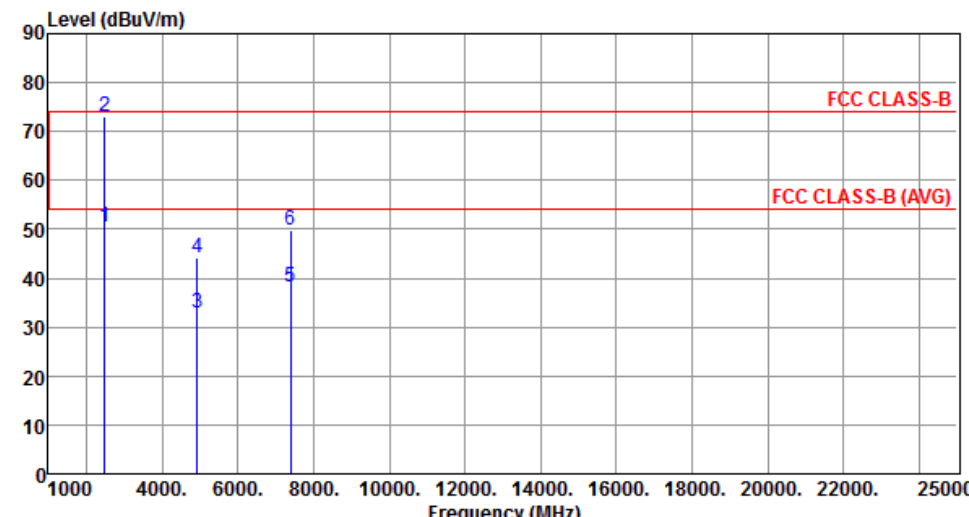
Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	50.18	54.00	-3.82	53.11	-2.93	Average	379	188
2	2483.50	72.10	74.00	-1.90	75.03	-2.93	Peak	379	188
3	4924.00	32.02	54.00	-21.98	28.11	3.91	Average	221	32
4	4924.00	44.09	74.00	-29.91	40.18	3.91	Peak	221	32
5	7386.00	36.61	54.00	-17.39	28.15	8.46	Average	143	211
6	7386.00	48.69	74.00	-25.31	40.23	8.46	Peak	143	211

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		



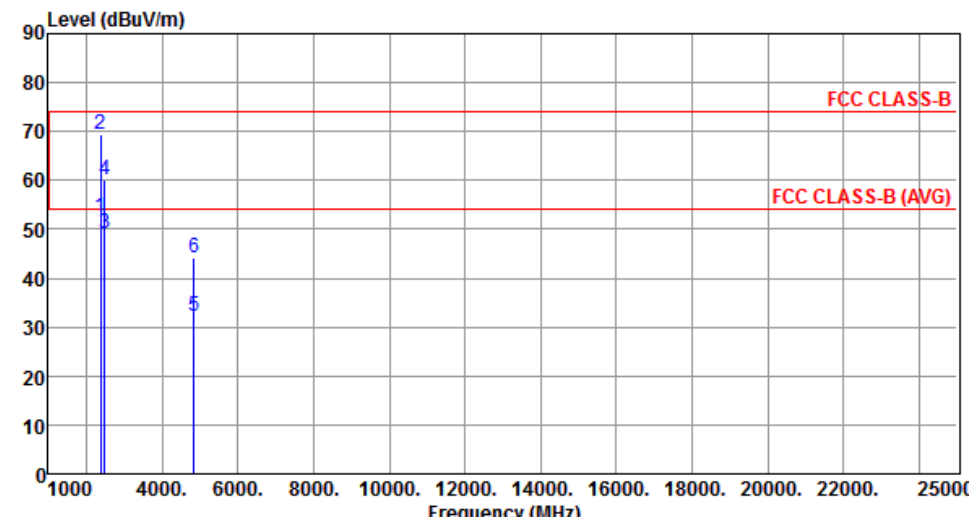
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	50.42	54.00	-3.58	53.35	-2.93	Average	223	237
2	2483.50	72.98	74.00	-1.02	75.91	-2.93	Peak	223	237
3	4924.00	32.78	54.00	-21.22	28.87	3.91	Average	255	222
4	4924.00	44.10	74.00	-29.90	40.19	3.91	Peak	255	222
5	7386.00	38.29	54.00	-15.71	29.83	8.46	Average	256	73
6	7386.00	49.78	74.00	-24.22	41.32	8.46	Peak	256	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).

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

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
Level (dBuV/m)			

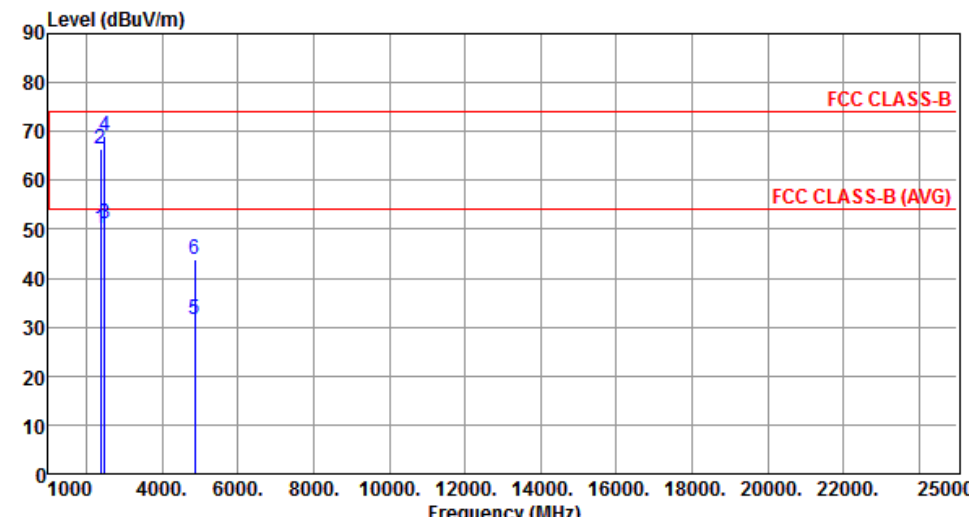
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	52.62	54.00	-1.38	55.97	-3.35	Average	208	93
2	2390.00	69.35	74.00	-4.65	72.70	-3.35	Peak	208	93
3	2496.00	49.21	54.00	-4.79	52.08	-2.87	Average	221	235
4	2496.00	60.15	74.00	-13.85	63.02	-2.87	Peak	221	235
5	4844.00	32.12	54.00	-21.88	28.46	3.66	Average	186	330
6	4844.00	44.24	74.00	-29.76	40.58	3.66	Peak	186	330

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).

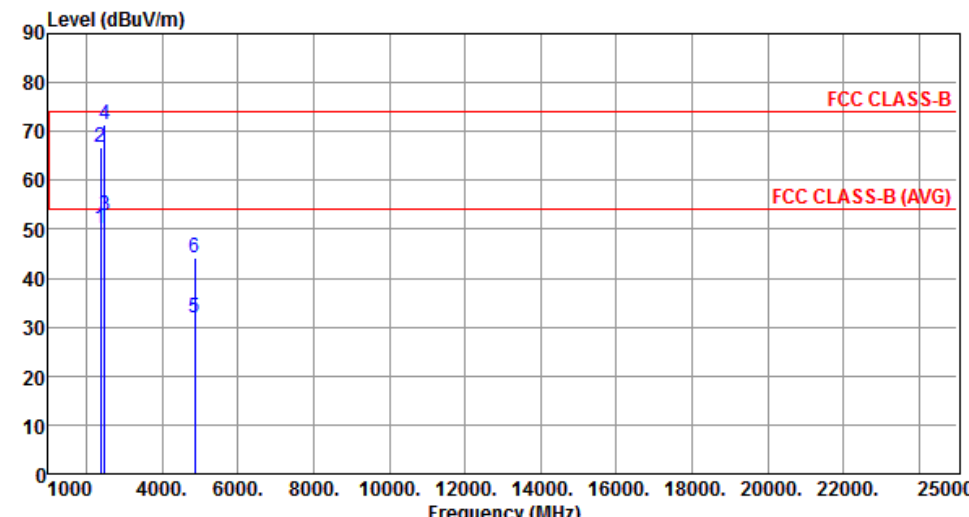
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.21	54.00	-3.79	53.56	-3.35	Average	246	161
2	2390.00	66.39	74.00	-7.61	69.74	-3.35	Peak	246	161
3	2483.50	51.05	54.00	-2.95	53.98	-2.93	Average	246	161
4	2483.50	69.06	74.00	-4.94	71.99	-2.93	Peak	246	161
5	4874.00	31.65	54.00	-22.35	27.90	3.75	Average	201	195
6	4874.00	43.84	74.00	-30.16	40.09	3.75	Peak	201	195

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).

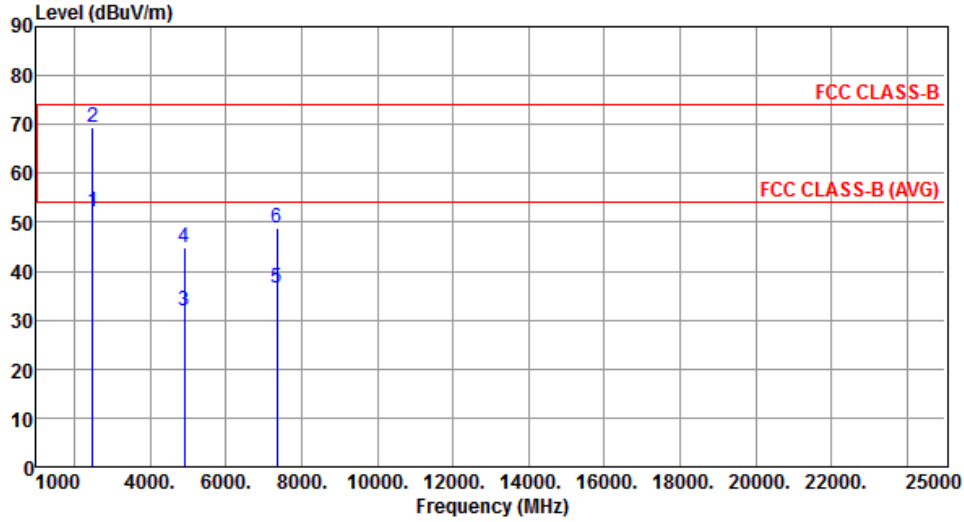
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.28	54.00	-3.72	53.63	-3.35	Average	241	231
2	2390.00	66.89	74.00	-7.11	70.24	-3.35	Peak	241	231
3	2483.50	52.72	54.00	-1.28	55.65	-2.93	Average	241	231
4	2483.50	71.45	74.00	-2.55	74.38	-2.93	Peak	241	231
5	4874.00	31.95	54.00	-22.05	28.20	3.75	Average	186	340
6	4874.00	44.12	74.00	-29.88	40.37	3.75	Peak	186	340

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).

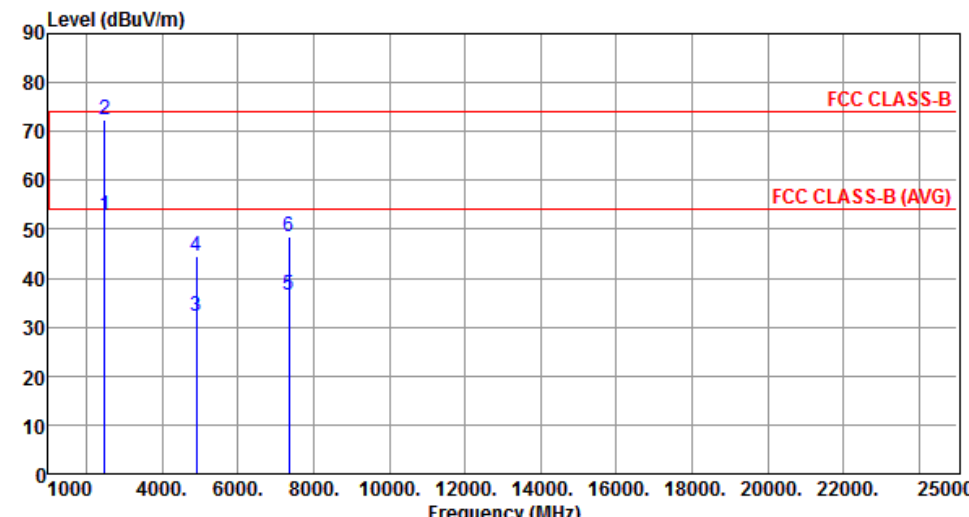
Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.22	54.00	-1.78	55.15	-2.93	Average	389	193
2	2483.50	69.42	74.00	-4.58	72.35	-2.93	Peak	389	193
3	4904.00	31.98	54.00	-22.02	28.12	3.86	Average	204	223
4	4904.00	44.85	74.00	-29.15	40.99	3.86	Peak	204	223
5	7356.00	36.55	54.00	-17.45	28.11	8.44	Average	195	241
6	7356.00	48.72	74.00	-25.28	40.28	8.44	Peak	195	241

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		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.92	54.00	-1.08	55.85	-2.93	Average	271	20
2	2483.50	72.42	74.00	-1.58	75.35	-2.93	Peak	271	20
3	4904.00	32.15	54.00	-21.85	28.29	3.86	Average	196	345
4	4904.00	44.36	74.00	-29.64	40.50	3.86	Peak	196	345
5	7356.00	36.44	54.00	-17.56	28.00	8.44	Average	194	246
6	7356.00	48.65	74.00	-25.35	40.21	8.44	Peak	194	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).

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

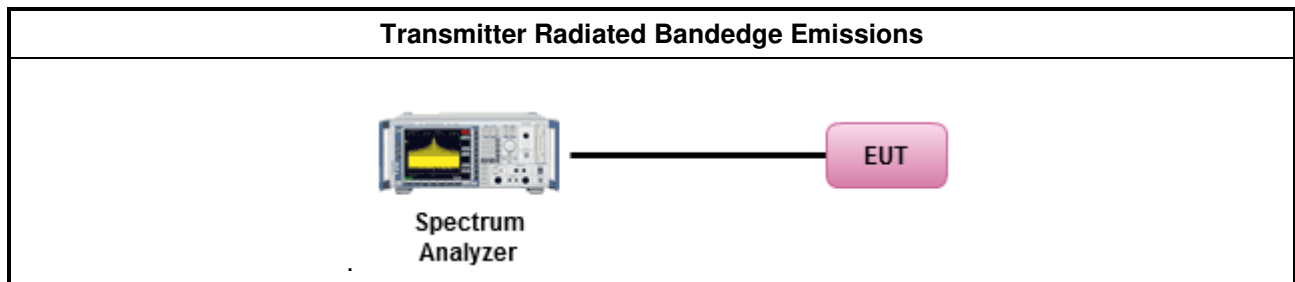
Reference level measurement

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

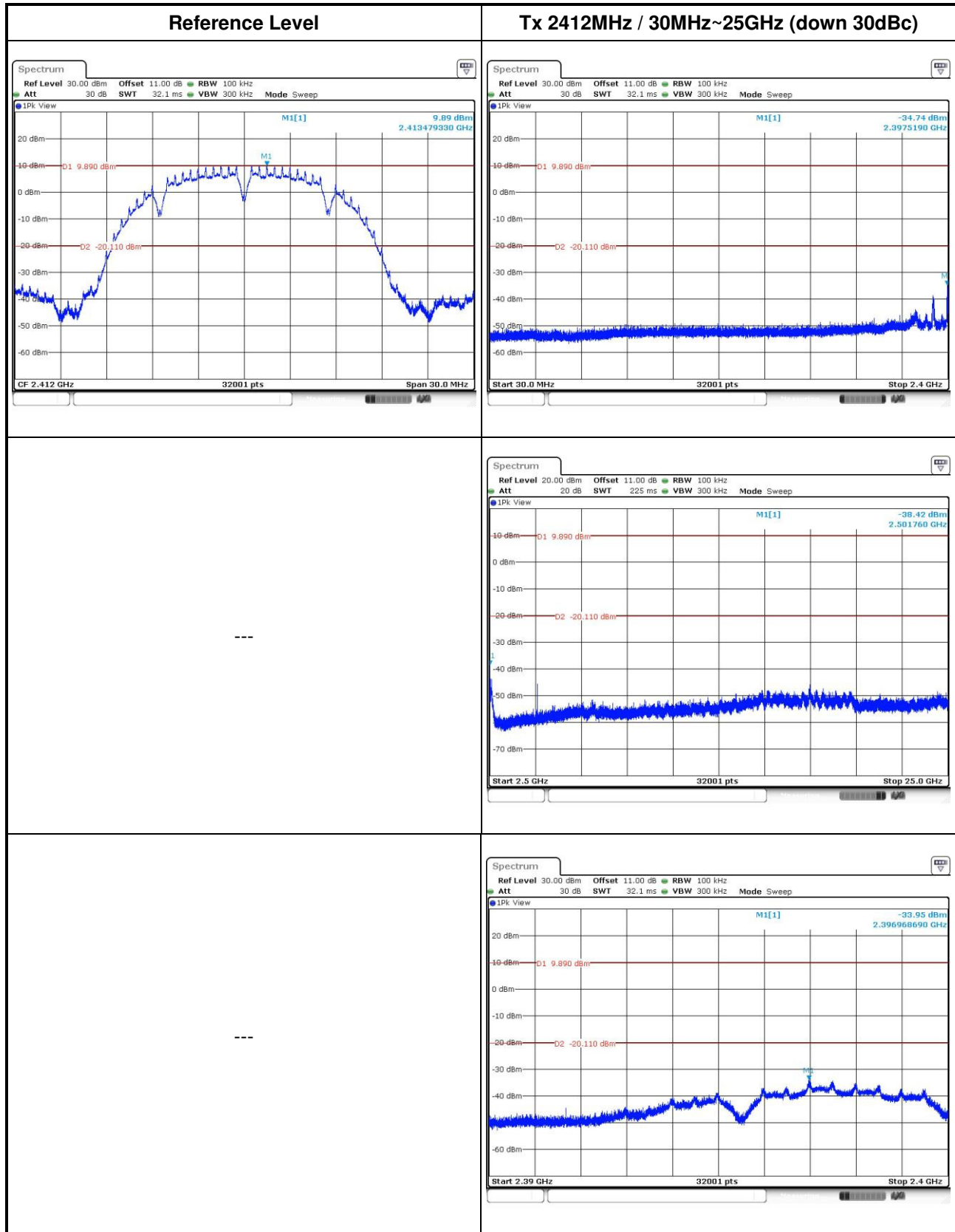


3.6.5 Test Result of Emissions in non-restricted frequency bands

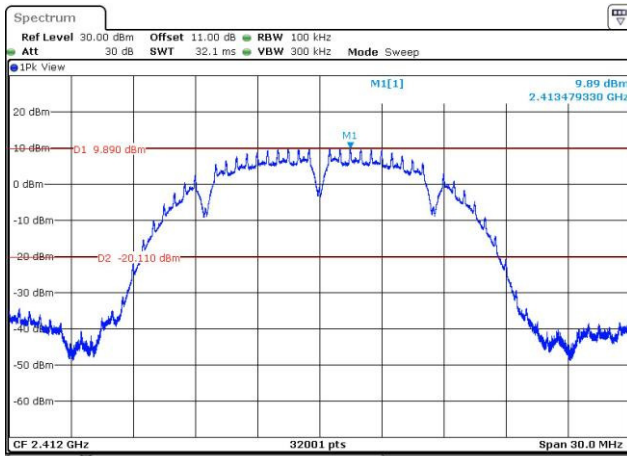
This test item is performed on each TX output individually without summing or adding $10 \log(N_{ANT})$ since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

3.6.6 Unwanted Emissions into Non-Restricted Frequency Bands

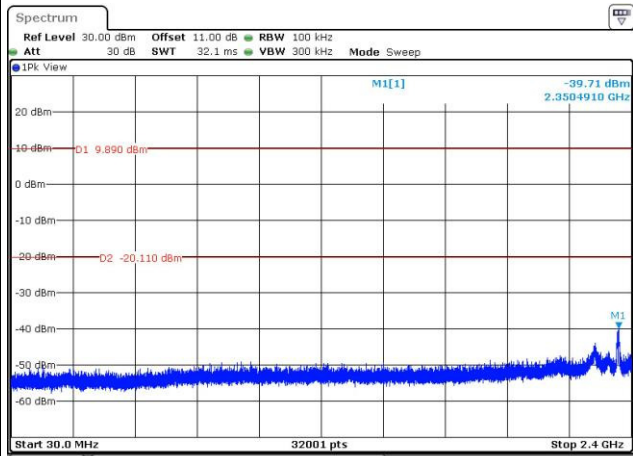
802.11b

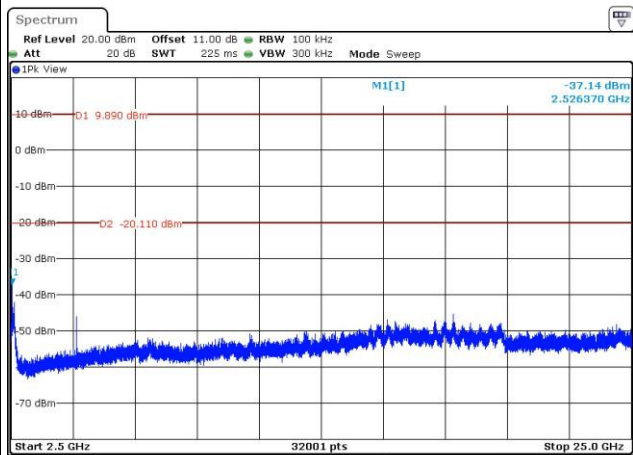


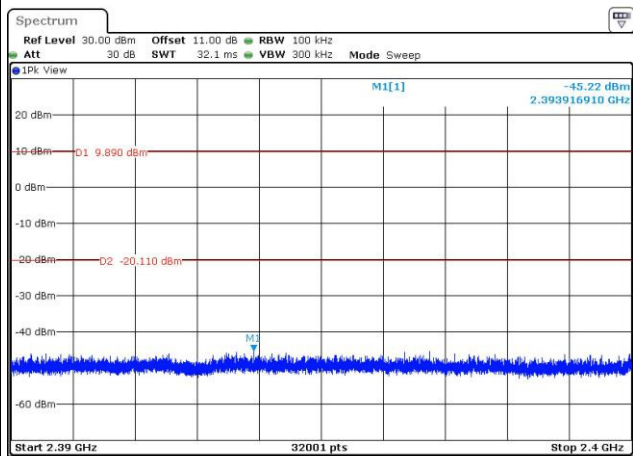
Reference Level

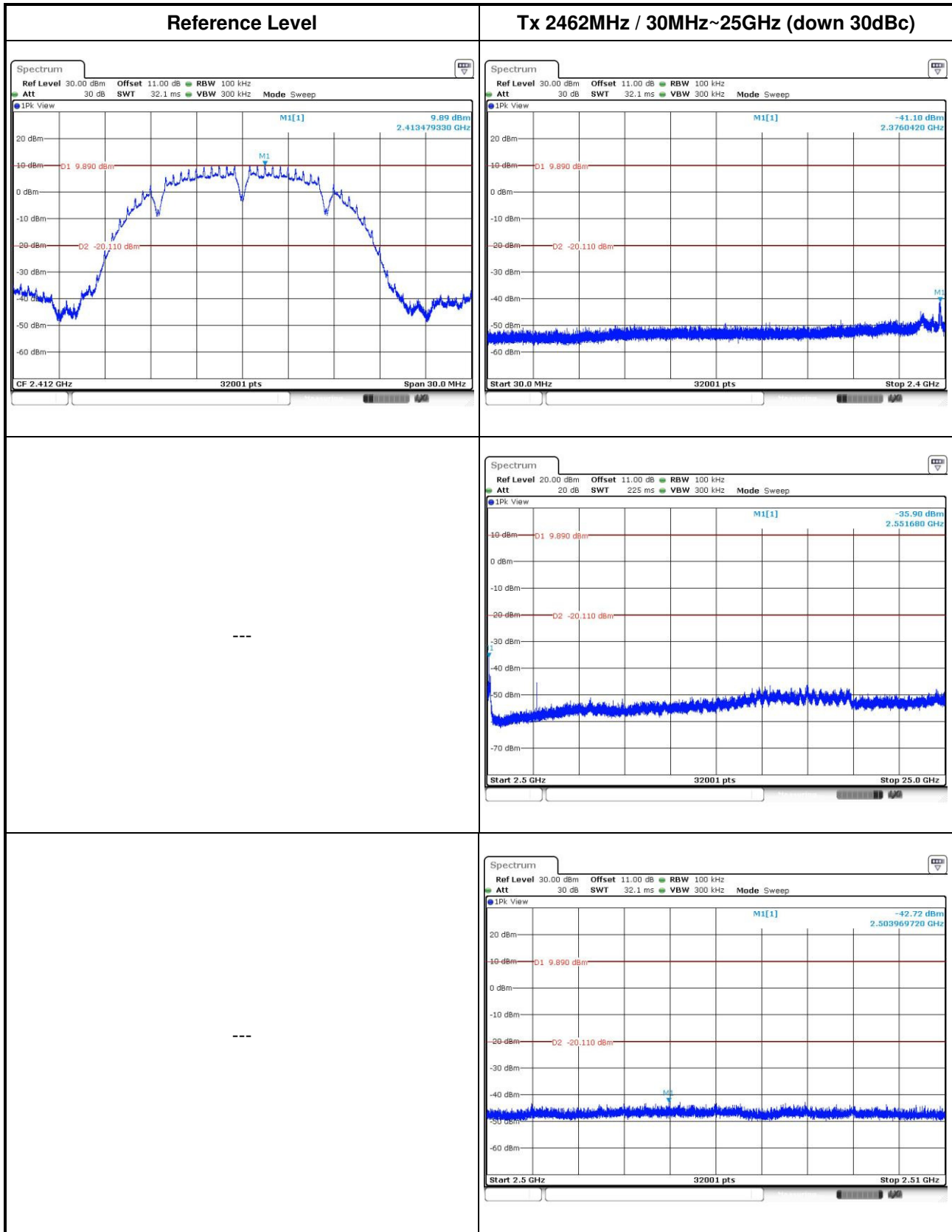


Tx 2437MHz / 30MHz~25GHz (down 30dBc)

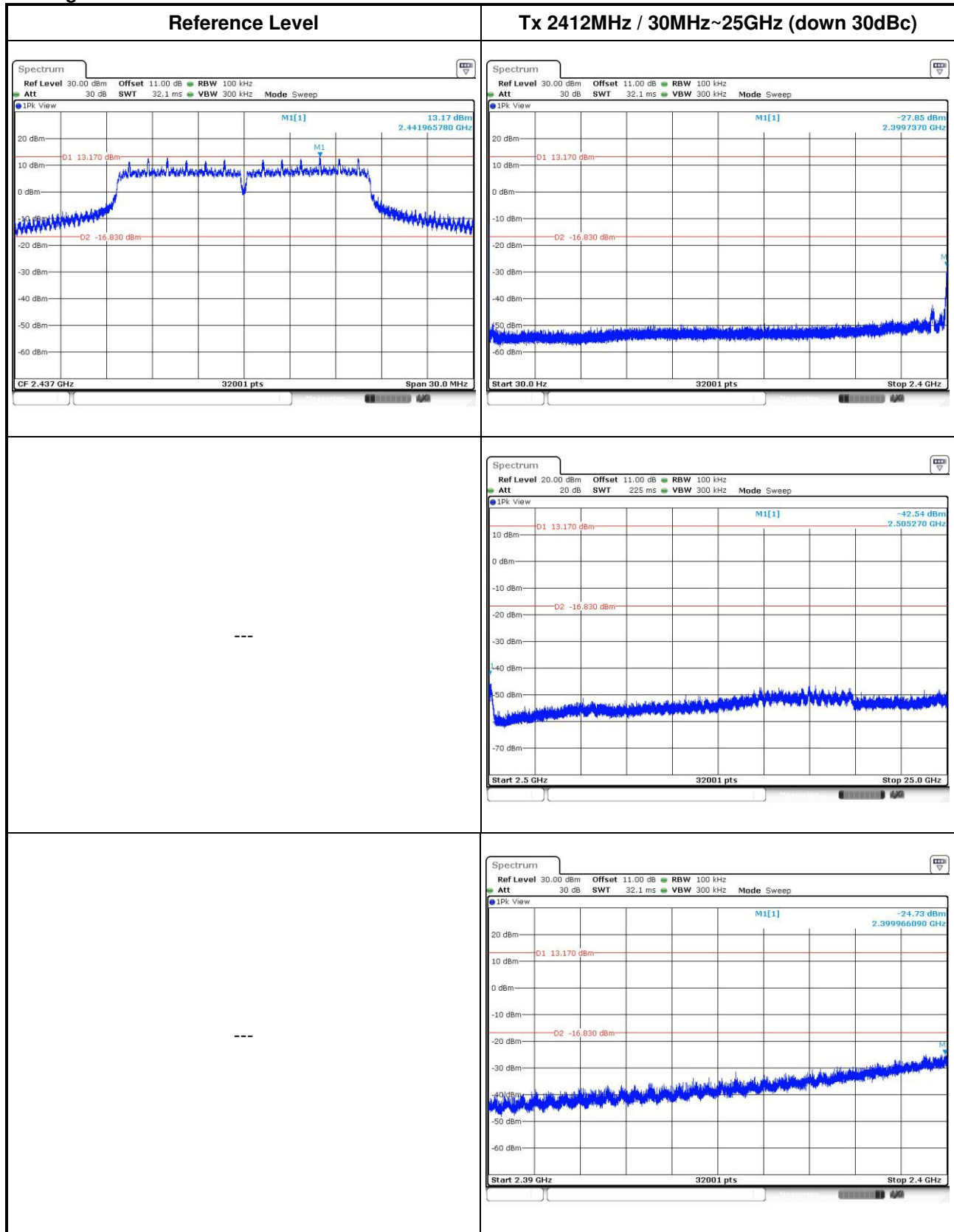


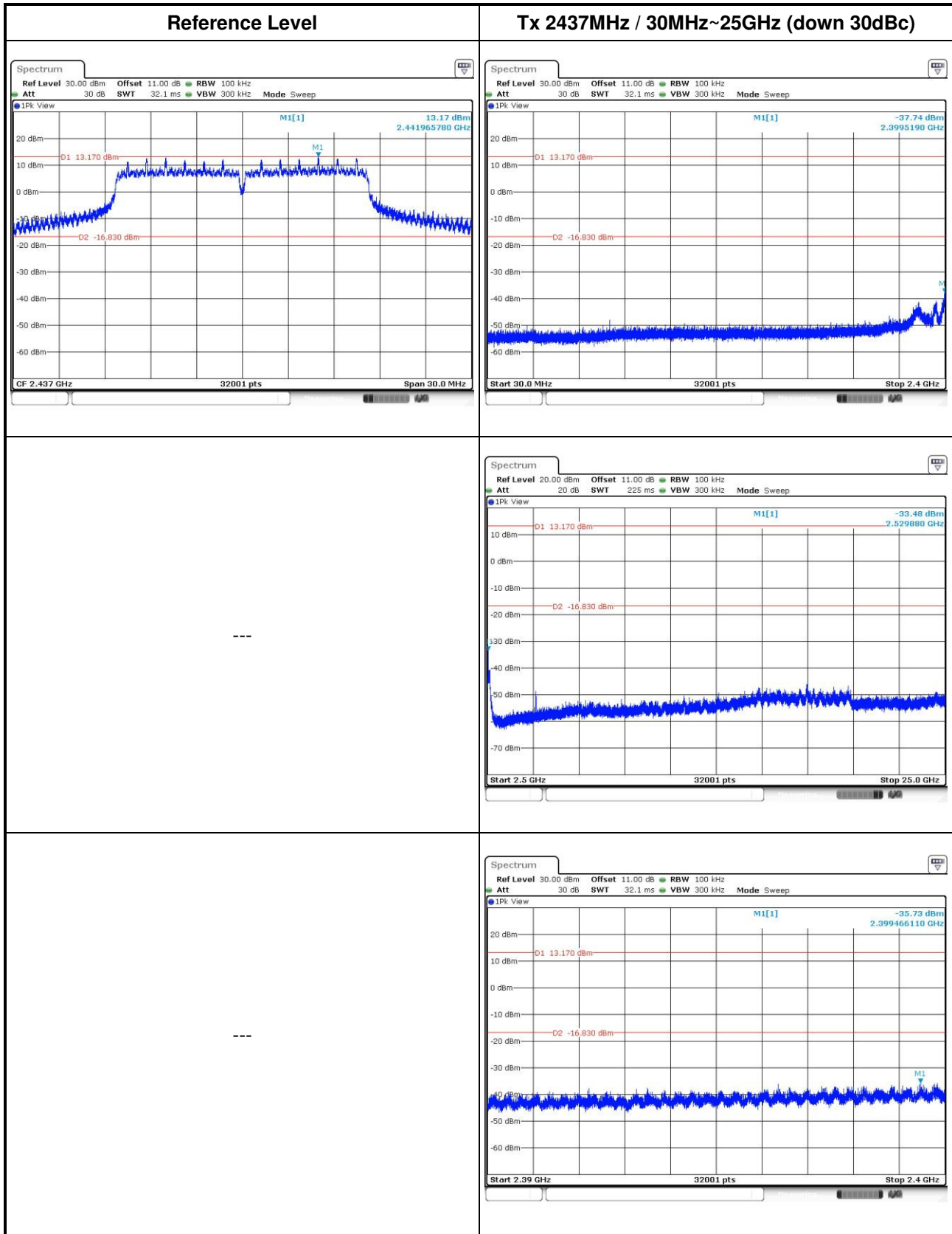


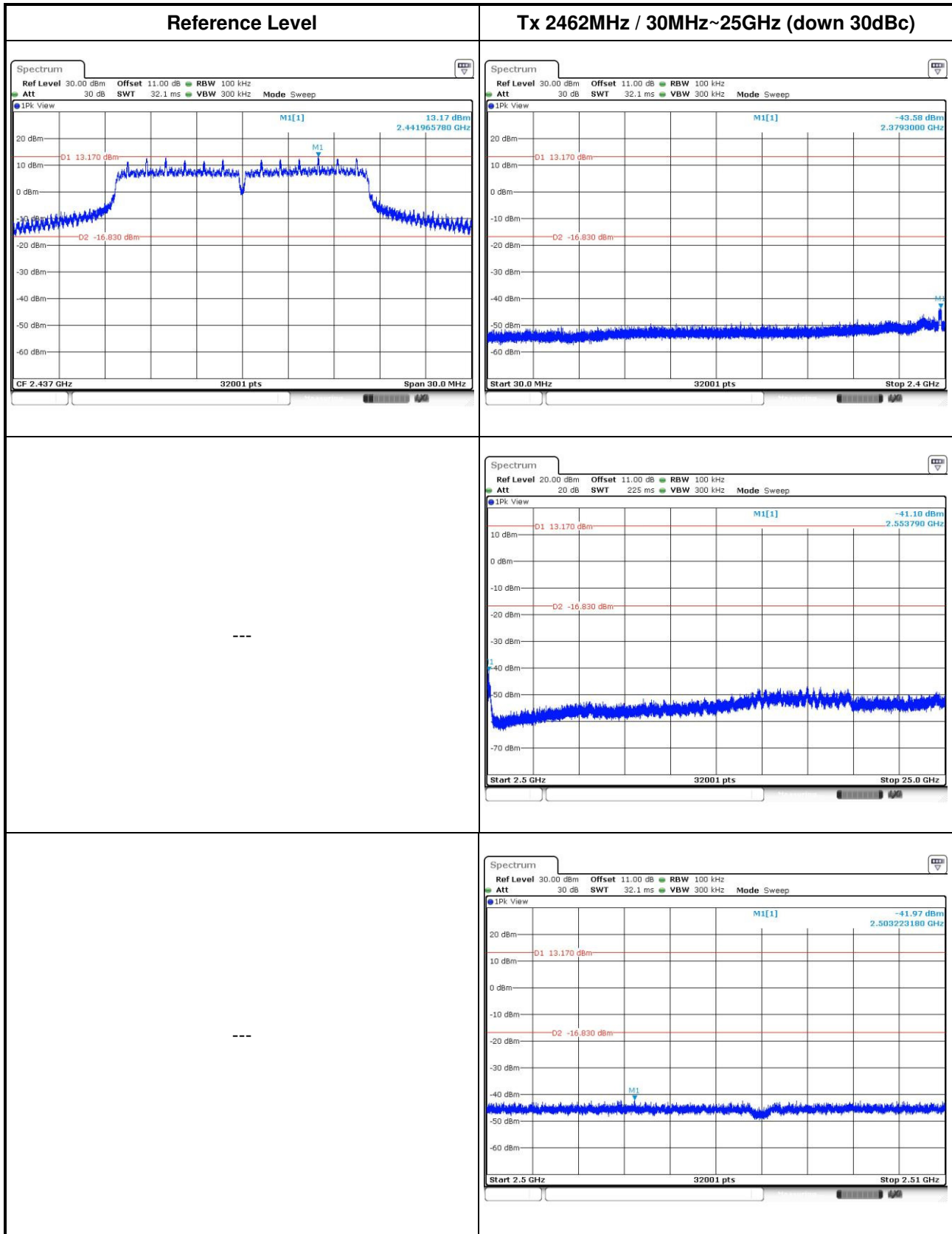




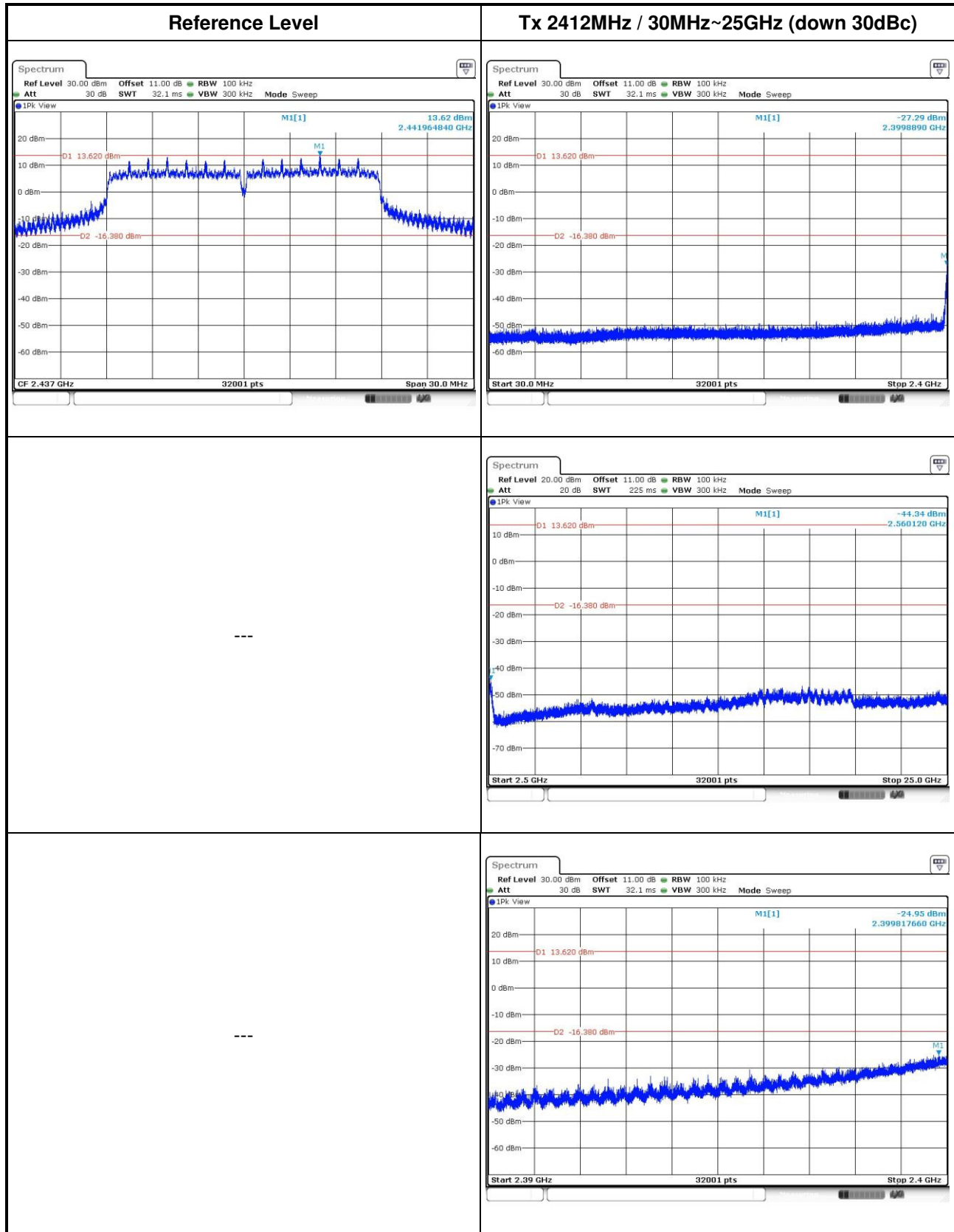
802.11g

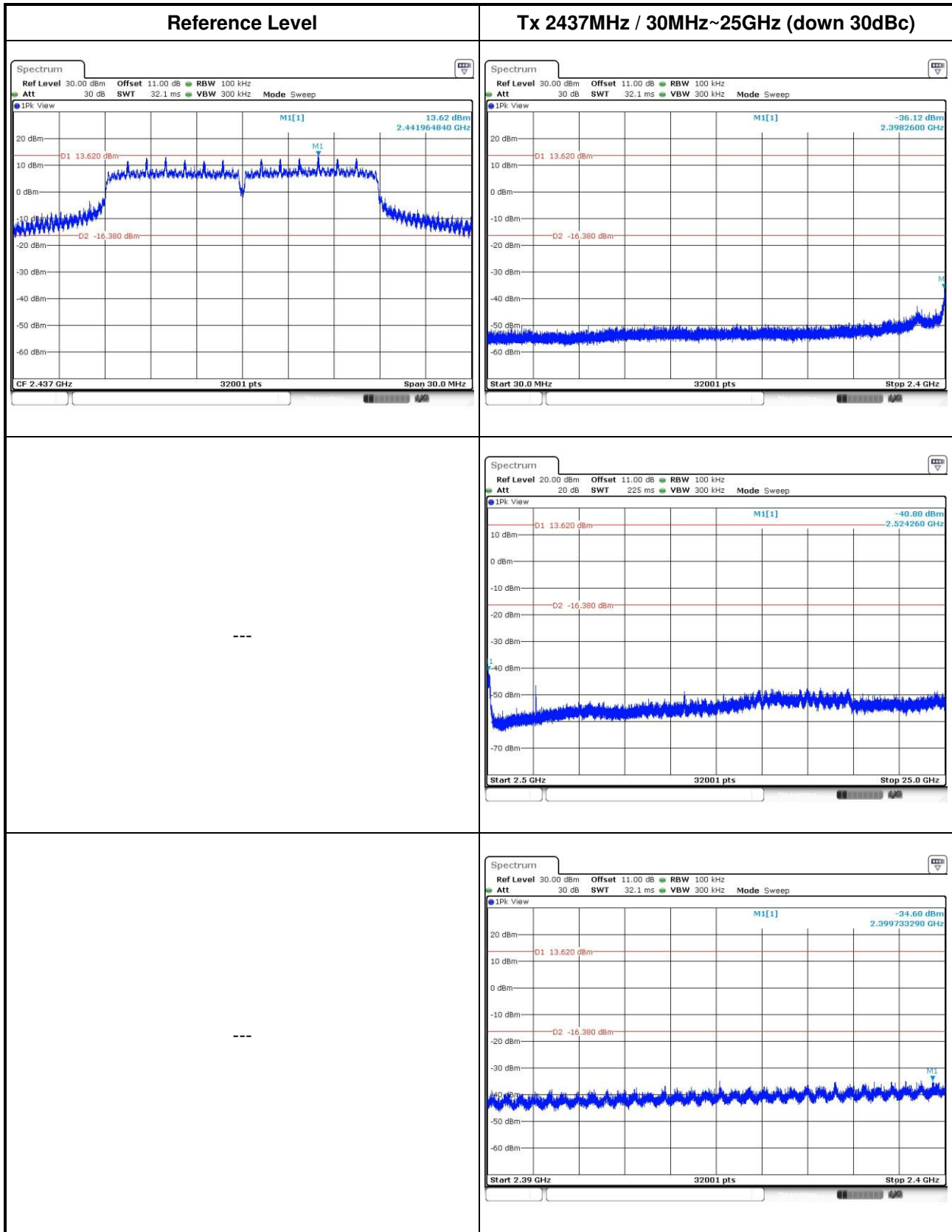




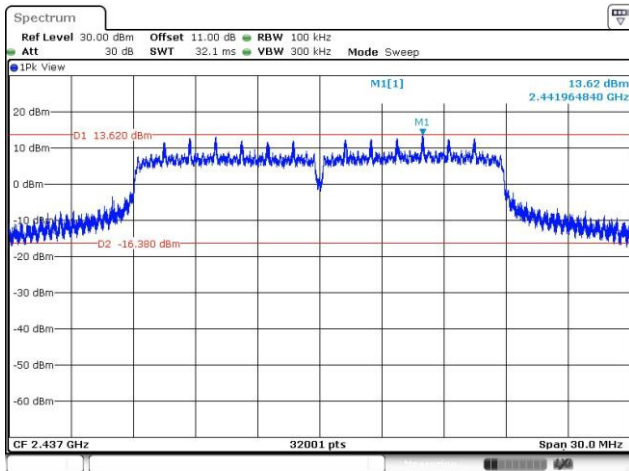


802.11n HT20

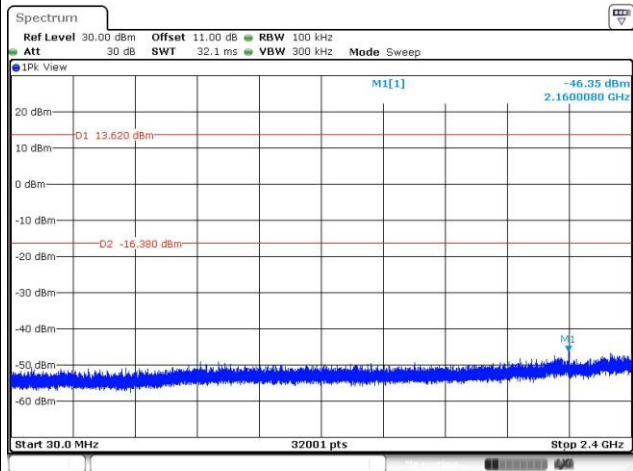


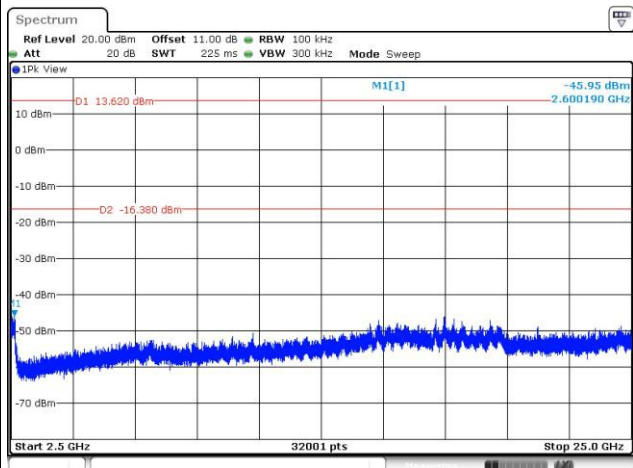


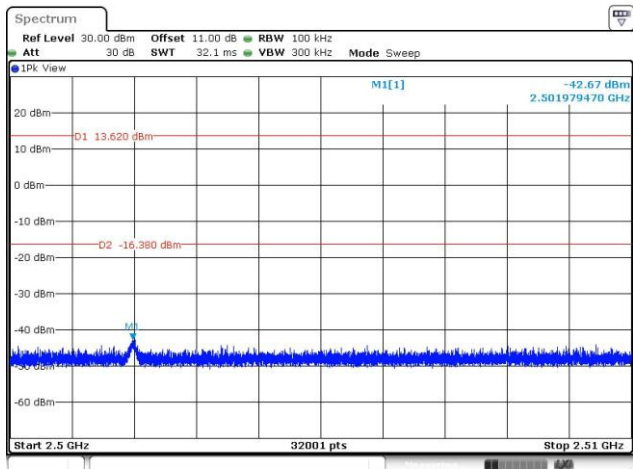
Reference Level



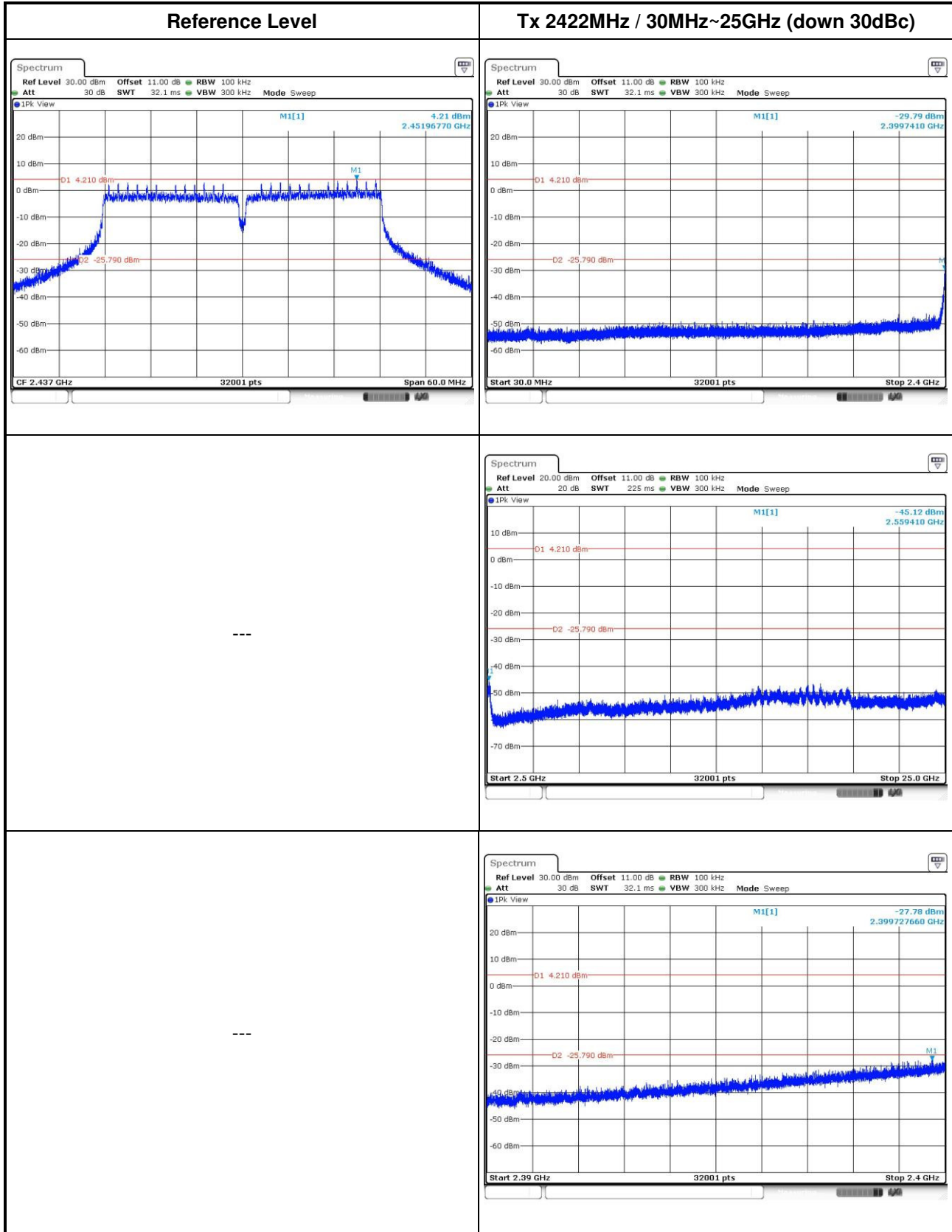
Tx 2462MHz / 30MHz~25GHz (down 30dBc)

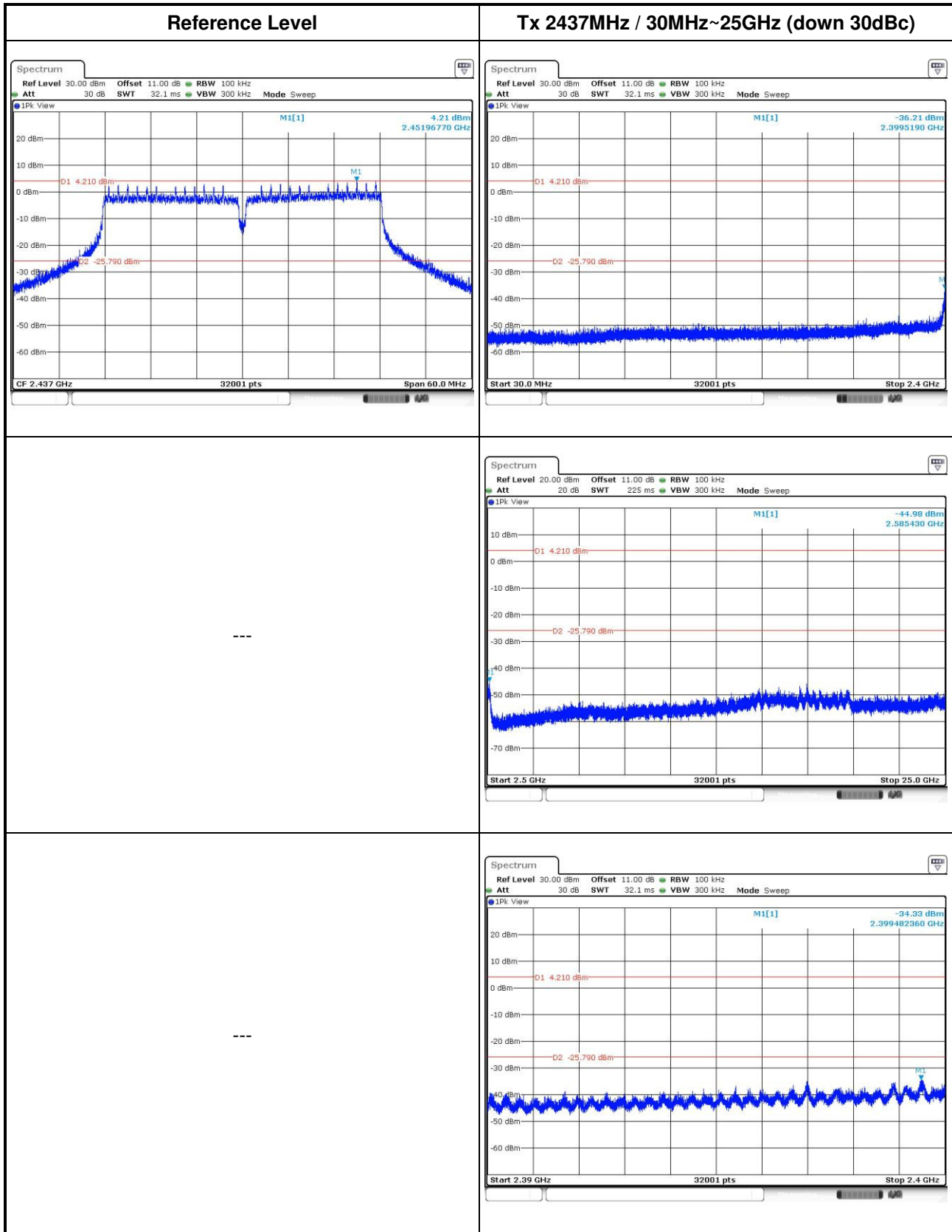


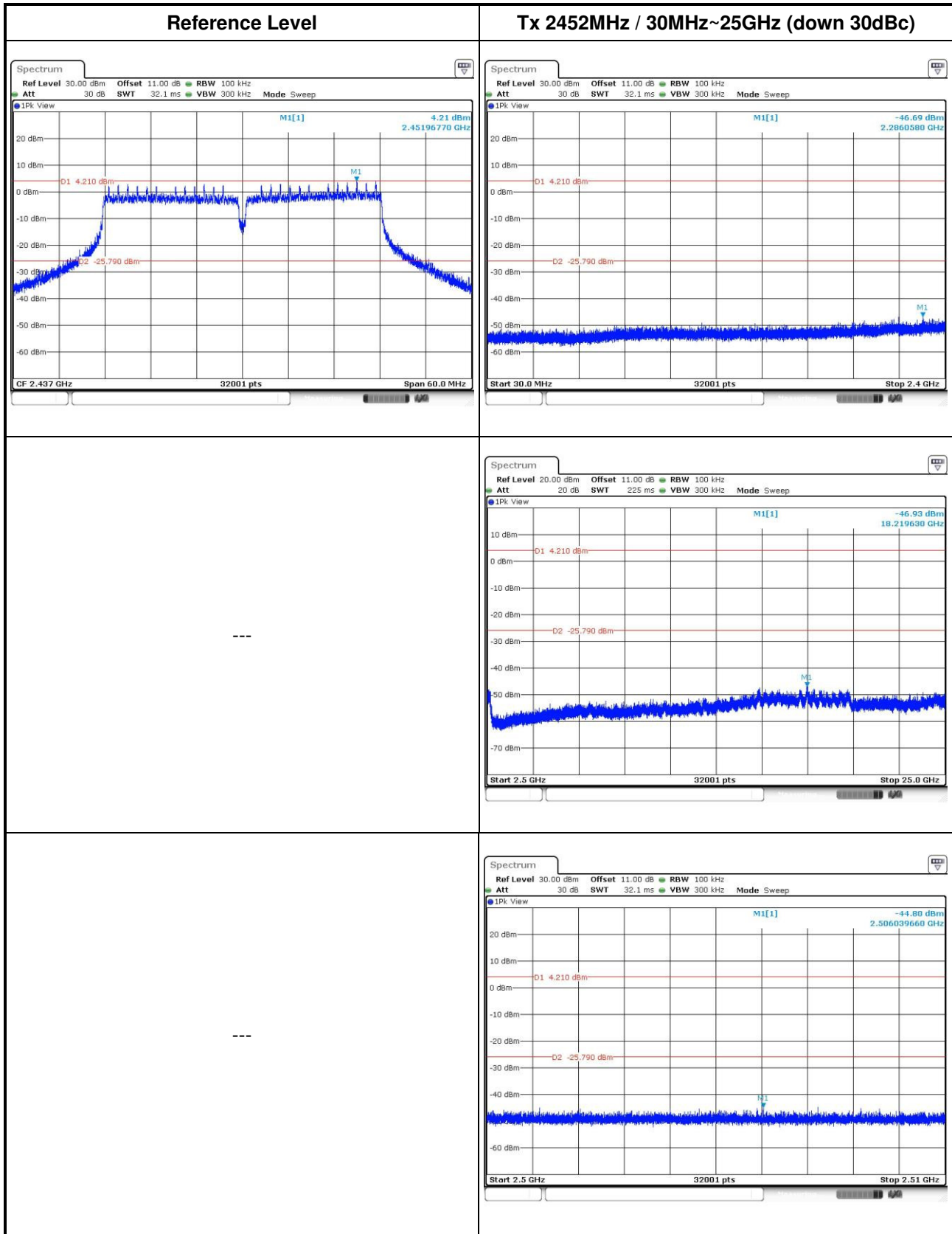




802.11n HT40







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>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan,
R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan Hsiang, Tao Yuan
Hsien 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==