

FCC Test Report

FCC ID : BKMAE-E92
Equipment : 11nabg 2x2 USB RF module
Model No. : DNUK-E92
Brand Name : EPSON
Applicant : Seiko Epson Corporation
Address : 3-3-5 Owa,Suwa-shi,Nagano 392-8502 Japan
Standard : 47 CFR FCC Part 15.247
Received Date : Jan. 09, 2014
Tested Date : Jan. 09 ~ Jan. 22, 2014

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
FR410802AC	Rev. 01	Initial issue	Feb. 14, 2014

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.156MHz 44.40 (Margin -11.29dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz 73.00 (Margin -1.00dB) - PK	Pass
15.247(b)(3)	Fundamental Emission Output Power	Power [dBm]: 11b: 18.43 11g: 23.43 HT20: 24.36 HT40: 24.69	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]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 8-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	MCS 0-7
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 8-15

Note 1: RF output power specifies that Maximum Peak Conducted 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

Ant. No.	Model	Type	Connector	Operating Frequencies (MHz) / Antenna Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
1	S203L ANT1	PIFA	NA	2.98	2.35	2.81	2.24	0.89
2	S203L ANT2	PIFA	NA	3.43	2.29	2.34	2.11	1.92

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	5Vdc from Host.
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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	Realtek MP Tool V0.0023.1101.2013		
	Mode	Duty cycle (%)	Duty factor (dB)
Duty Cycle and Duty Factor	11b	99.31%	0.03
	11g	94.58%	0.24
	HT20	86.50%	0.63
	HT40	70.43%	1.52

1.1.7 Power Setting

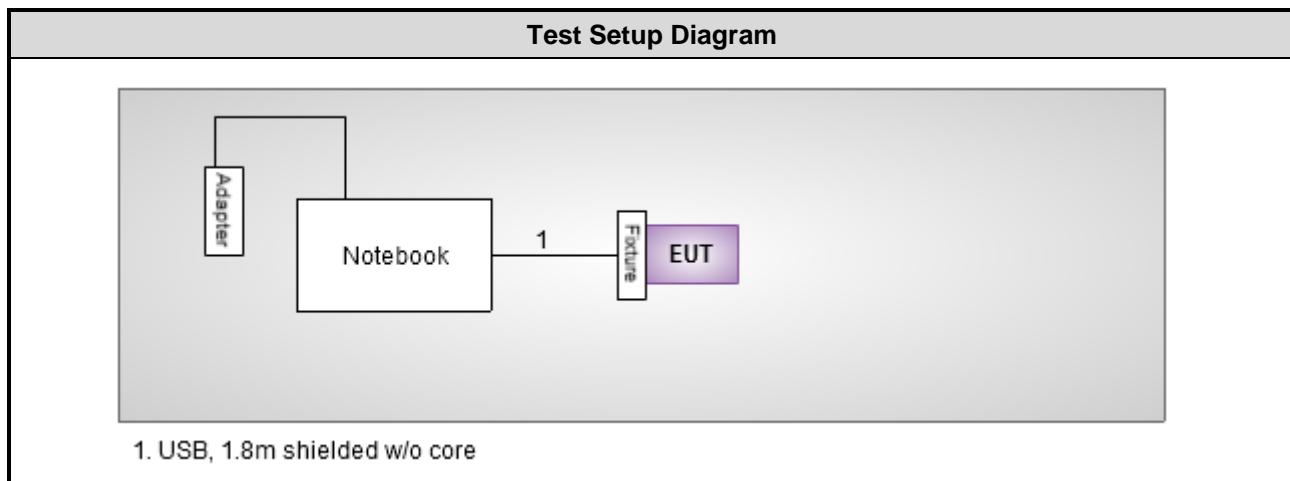
Modulation Mode	Test Frequency (MHz)	Power Set
11b	2412	43
11b	2437	42
11b	2462	41
11g	2412	48
11g	2437	47
11g	2462	46
HT20	2412	48/50
HT20	2437	47/49
HT20	2462	46/48
HT40	2422	48/50
HT40	2437	48/50
HT40	2452	47/49

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	E6430	---	DoC	---
2	Fixture	---	---	---	---	USB, 1.8m shielded w/o core

Note: No. 2 was supplied by applicant.

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. 15, 2013	Oct. 14, 2014
LISN	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-667	Nov. 23, 2013	Nov. 22, 2014
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	Schwarzbeck 8127	8127-666	Dec. 04, 2013	Dec. 03, 2014
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Apr. 24, 2013	Apr. 23, 2014
50 ohm terminal (Support Unit)	NA	50	04	Apr. 22, 2013	Apr. 21, 2014

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber 2 / (03CH02-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 28, 2013	Jan. 27, 2014
Receiver	R&S	ESR3	101657	Jan. 30, 2013	Jan. 29, 2014
Bilog Antenna	Schwarzbeck	VULB9168	VULB9168-524	Jan. 08, 2014	Jan. 07, 2015
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1095	Jan. 07, 2014	Jan. 06, 2015
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Dec. 27, 2013	Dec. 26, 2014
Amplifier	Burgeon	BPA-530	100218	Dec. 09, 2013	Dec. 08, 2014
Amplifier	Agilent	83017A	MY39501309	Dec. 09, 2013	Dec. 08, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16015/4	Dec. 17, 2013	Dec. 16, 2014
RF Cable-R03m	Woken	CFD400NL-LW	CFD400NL-003	Dec. 17, 2013	Dec. 16, 2014
RF Cable-R10m	Woken	CFD400NL-LW	CFD400NL-004	Dec. 17, 2013	Dec. 16, 2014
control	EM Electronics	EM1000	060608	N/A	N/A

Note: Calibration Interval of instruments listed above is one year.

Loop Antenna	R&S	HFH2-Z2	100330	Nov. 15, 2012	Nov. 14, 2014
Amplifier	EM	EM18G40G	060572	Jun. 20, 2013	Jun. 19, 2015
Note: Calibration Interval of instruments listed above is two year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV 40	101063	Feb. 18, 2013	Feb. 17, 2014
Power Meter	Anritsu	ML2495A	1241002	Oct. 24, 2013	Oct. 23, 2014
Power Sensor	Anritsu	MA2411B	1027366	Oct. 24, 2013	Oct. 23, 2014

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 C63.10-2009

FCC KDB 558074 D01 DTS Meas Guidance v03r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

Note: The EUT has been tested and complied with FCC part 15B requirement. FCC Part 15B test results are issued to another report.

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	±35.286 Hz
Conducted power	±0.536 dB
Frequency error	±35.286 Hz
Temperature	±0.3 °C
Conducted emission	±2.946 dB
AC conducted emission	±2.43 dB
Radiated emission	±2.49 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	20°C / 70%	Skys Huang
Radiated Emissions	03CH02-WS	23°C / 66%	Aska Huang
RF Conducted	TH01-WS	21°C / 61%	Felix Sung

➤ FCC site registration No.: 657002

➤ IC site registration No.: 10807A-2

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	HT40	2437	MCS 8	---
Radiated Emissions ≤1GHz	HT40	2437	MCS 8	---
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	
Fundamental Emission Output Power 6dB bandwidth	11g HT20	2412 / 2437 / 2462	6 Mbps MCS 8	---
Power spectral density	HT40	2422 / 2437 / 2452	MCS 8	

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

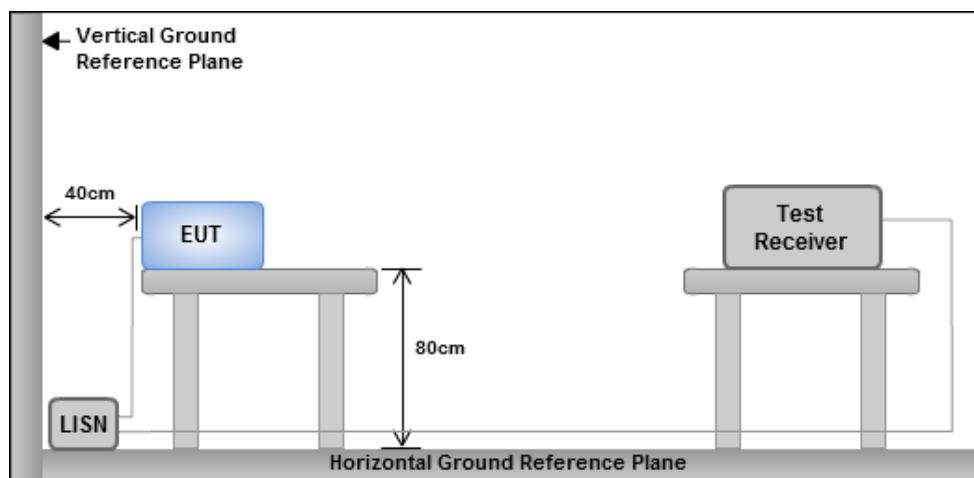
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

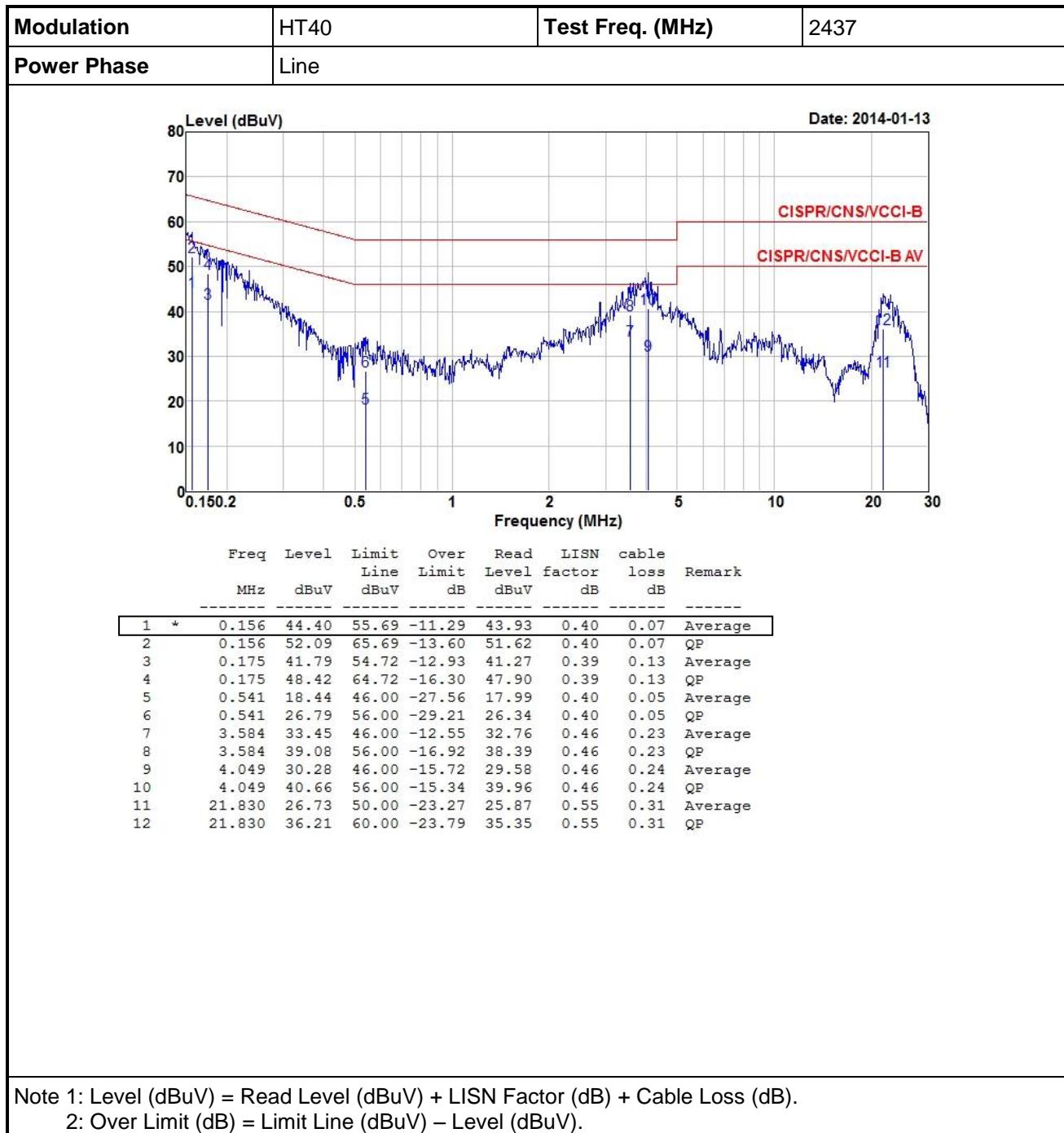
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels 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.

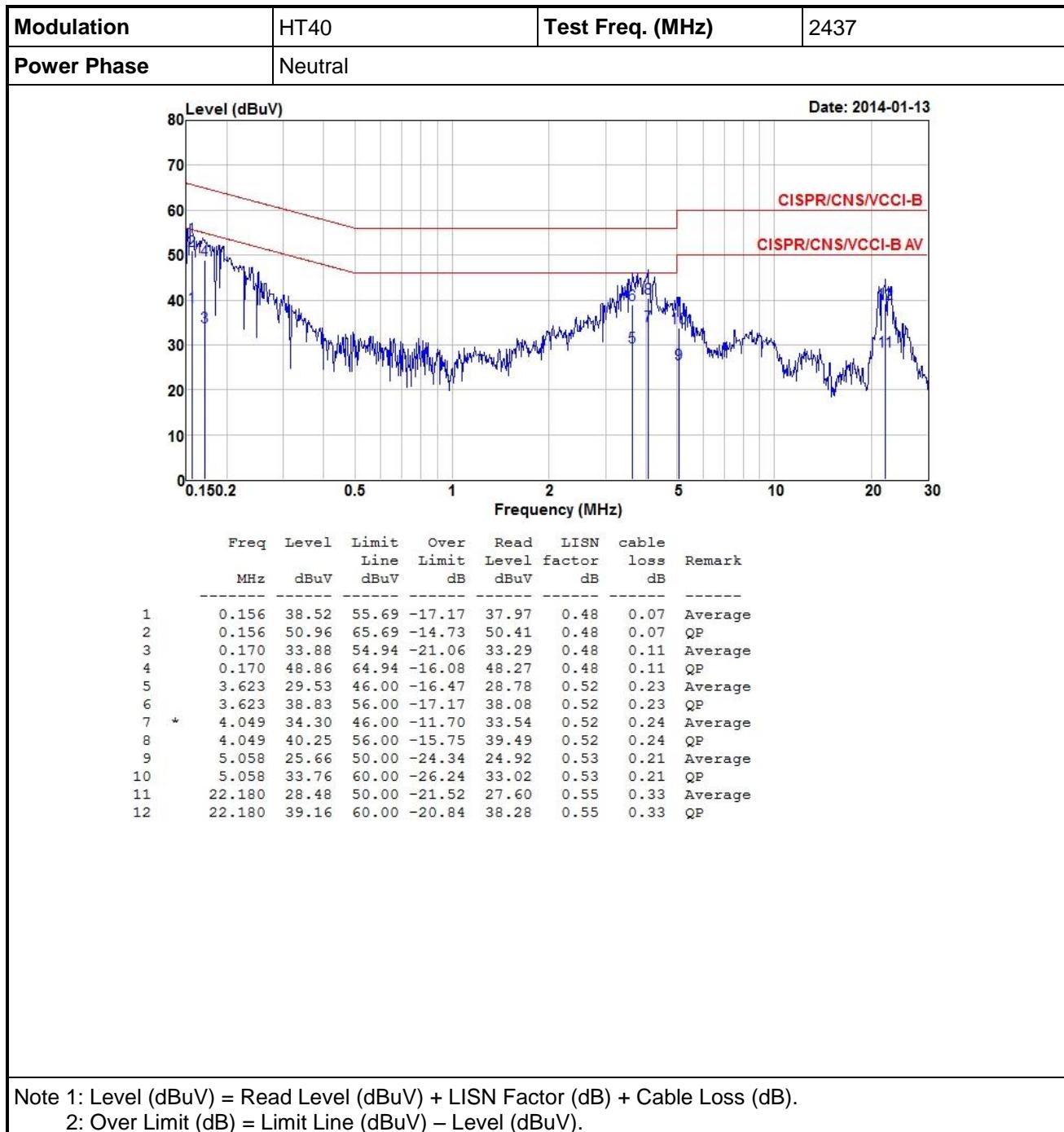
3.1.3 Test Setup



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





3.2 6dB and Occupied Bandwidth

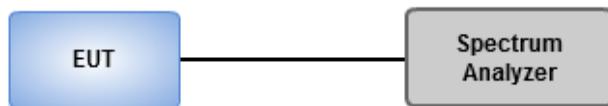
3.2.1 Limit of 6dB Bandwidth

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

3.2.2 Test Procedures

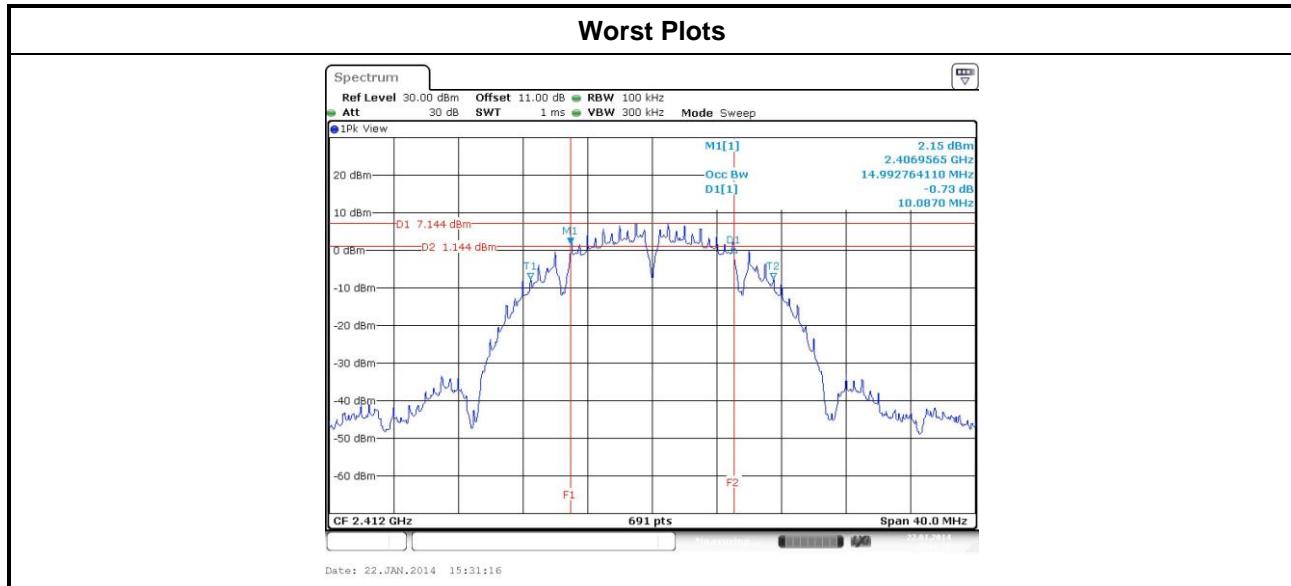
1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points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

3.2.3 Test Setup

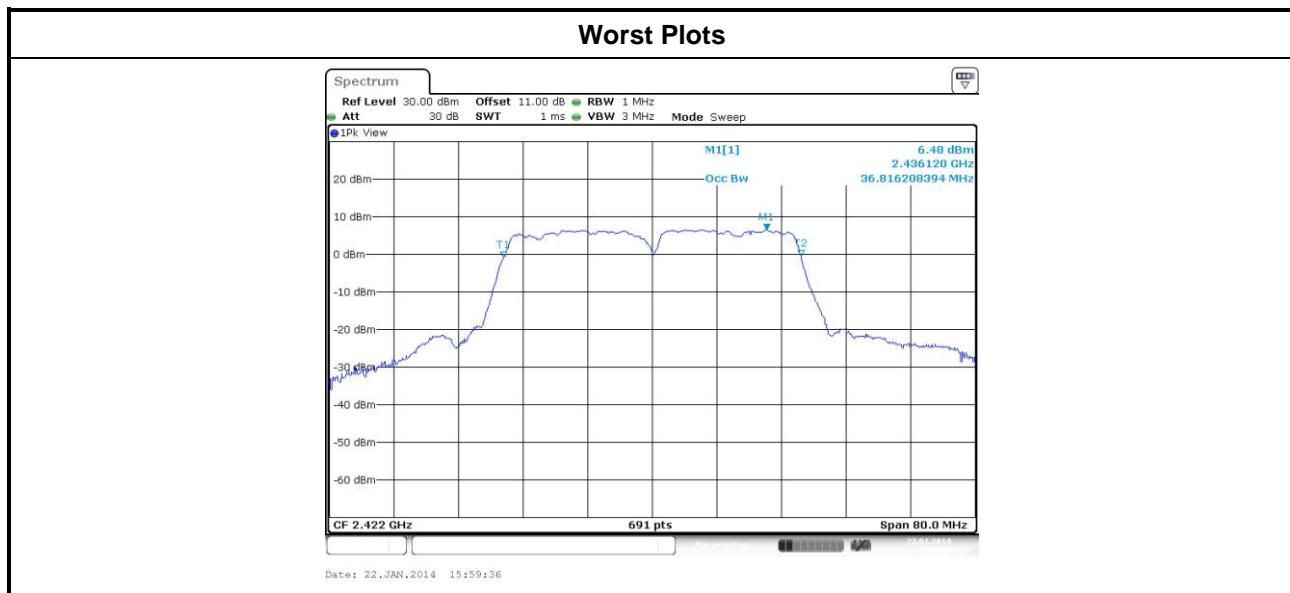


3.2.4 Test Result of 6dB and Occupied Bandwidth

Modulation Mode	N _{TX}	Freq. (MHz)	6dB Bandwidth (MHz)				Limit (kHz)
			Chain 0	Chain 1	Chain 2	Chain 3	
11b	1	2412	10.09	---	---	---	500
11b	1	2437	10.09	---	---	---	500
11b	1	2462	10.09	---	---	---	500
11g	1	2412	16.35	---	---	---	500
11g	1	2437	16.35	---	---	---	500
11g	1	2462	16.35	---	---	---	500
HT20	2	2412	17.57	17.62	---	---	500
HT20	2	2437	17.51	17.28	---	---	500
HT20	2	2462	17.51	17.51	---	---	500
HT40	2	2422	35.25	35.25	---	---	500
HT40	2	2437	35.25	35.48	---	---	500
HT40	2	2452	35.25	35.36	---	---	500



Modulation Mode	N _{TX}	Freq. (MHz)	99% Occupied Bandwidth (MHz)			
			Chain 0	Chain 1	Chain 2	Chain 3
11b	1	2412	14.82	---	---	---
11b	1	2437	14.93	---	---	---
11b	1	2462	14.93	---	---	---
11g	1	2412	16.96	---	---	---
11g	1	2437	16.96	---	---	---
11g	1	2462	16.90	---	---	---
HT20	2	2412	18.06	17.83	---	---
HT20	2	2437	18.06	17.83	---	---
HT20	2	2462	18.00	17.83	---	---
HT40	2	2422	36.82	36.47	---	---
HT40	2	2437	36.82	36.47	---	---
HT40	2	2452	36.82	36.47	---	---



3.3 RF Output Power

3.3.1 Limit of RF Output Power

Conducted power shall not exceed 1Watt.

- Antenna gain <= 6dBi, no any corresponding reduction is in output power limit.
- Antenna gain > 6dBi
 - 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 (For reference only)
 - 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)	Peak conducted output power (dBm)				Total Power (mW)	Total Power (dBm)	Limit (dBm)
			Chain 0	Chain 1	Chain 2	Chain 3			
11b	1	2412	18.26	---	---	---	66.988	18.26	30
11b	1	2437	18.43	---	---	---	69.663	18.43	30
11b	1	2462	18.34	---	---	---	68.234	18.34	30
11g	1	2412	23.22	---	---	---	209.894	23.22	30
11g	1	2437	23.43	---	---	---	220.293	23.43	30
11g	1	2462	22.92	---	---	---	195.884	22.92	30
HT20	2	2412	21.38	21.31	---	---	272.611	24.36	30
HT20	2	2437	21.19	21.27	---	---	265.490	24.24	30
HT20	2	2462	20.87	21.06	---	---	249.824	23.98	30
HT40	2	2422	21.24	21.27	---	---	267.013	24.27	30
HT40	2	2437	21.65	21.71	---	---	294.470	24.69	30
HT40	2	2452	21.18	21.19	---	---	262.742	24.20	30

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	1	2412	16.09	---	---	---	40.644	16.09	30
11b	1	2437	16.28	---	---	---	42.462	16.28	30
11b	1	2462	16.21	---	---	---	41.783	16.21	30
11g	1	2412	14.21	---	---	---	26.363	14.21	30
11g	1	2437	14.31	---	---	---	26.977	14.31	30
11g	1	2462	14.03	---	---	---	25.293	14.03	30
HT20	2	2412	13.33	13.26	---	---	42.711	16.31	30
HT20	2	2437	13.14	13.19	---	---	41.451	16.18	30
HT20	2	2462	13.01	13.12	---	---	40.510	16.08	30
HT40	2	2422	13.05	13.07	---	---	40.460	16.07	30
HT40	2	2437	13.41	13.48	---	---	44.212	16.46	30
HT40	2	2452	12.93	12.98	---	---	39.495	15.97	30

Note: Conducted average output power is for reference only.

3.4 Power Spectral Density

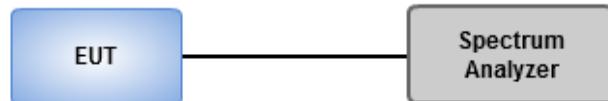
3.4.1 Limit of Power Spectral Density

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 = 3kHz, VBW = 10kHz.
 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. 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.

3.4.3 Test Setup

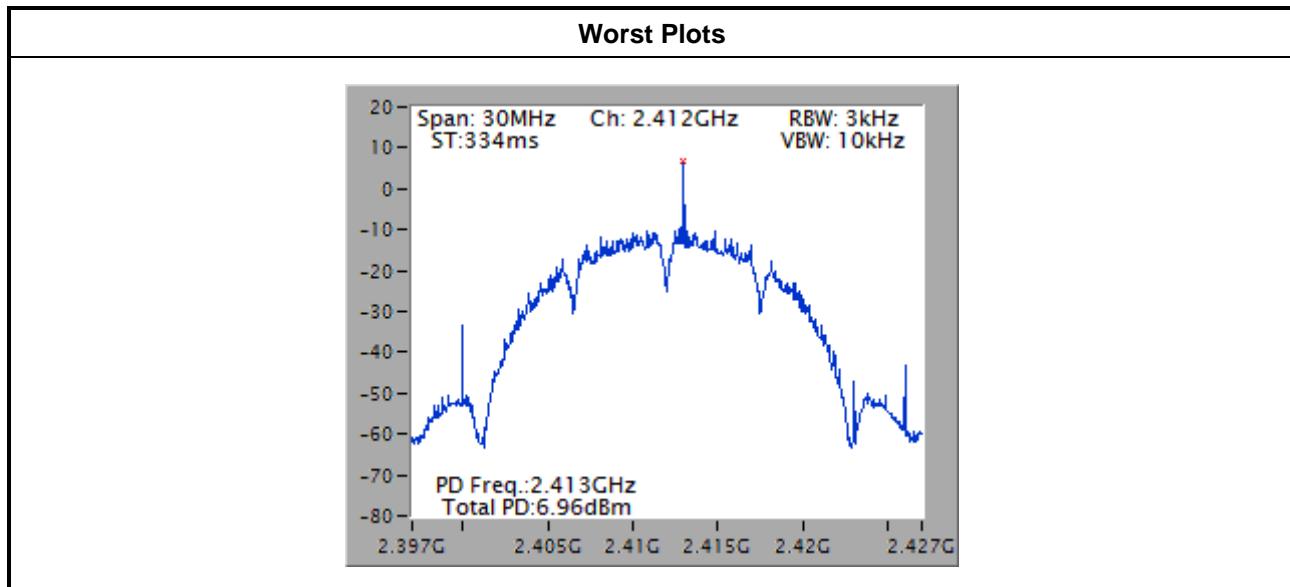


3.4.4 Test Result of Power Spectral Density

Modulation Mode	N _{TX}	Freq. (MHz)	Total Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)
11b	1	2412	6.96	7.78
11b	1	2437	3.83	7.78
11b	1	2462	6.89	7.78
11g	1	2412	-13.68	7.78
11g	1	2437	-12.84	7.78
11g	1	2462	-13.27	7.78
HT20	2	2412	-11.50	7.78
HT20	2	2437	-11.64	7.78
HT20	2	2462	-11.28	7.78
HT40	2	2422	-14.97	7.78
HT40	2	2437	-14.85	7.78
HT40	2	2452	-14.95	7.78

Note:

1. Test result for HT20 / HT40 is bin-by-bin summing measured value of each TX port.
2. Directional gain = $10 * \log((10^{2.98/20} + 10^{3.43/20})^2/2) = 6.22\text{dBi} > 6\text{dBi}$
Limit shall be reduced to $8\text{ dBm} - (6.22\text{ dBi} - 6\text{ dBi}) = 7.78\text{ dBm}$



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

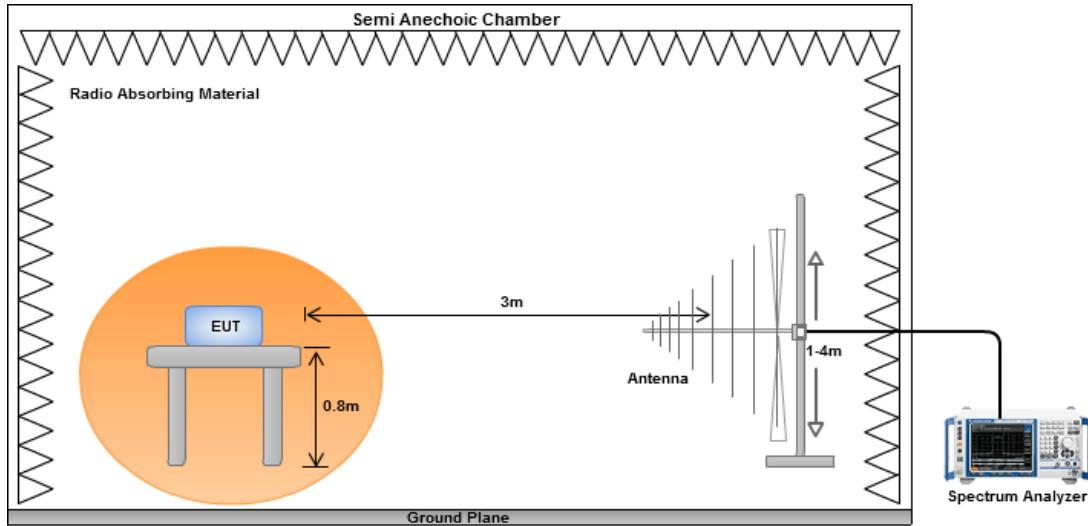
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
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:

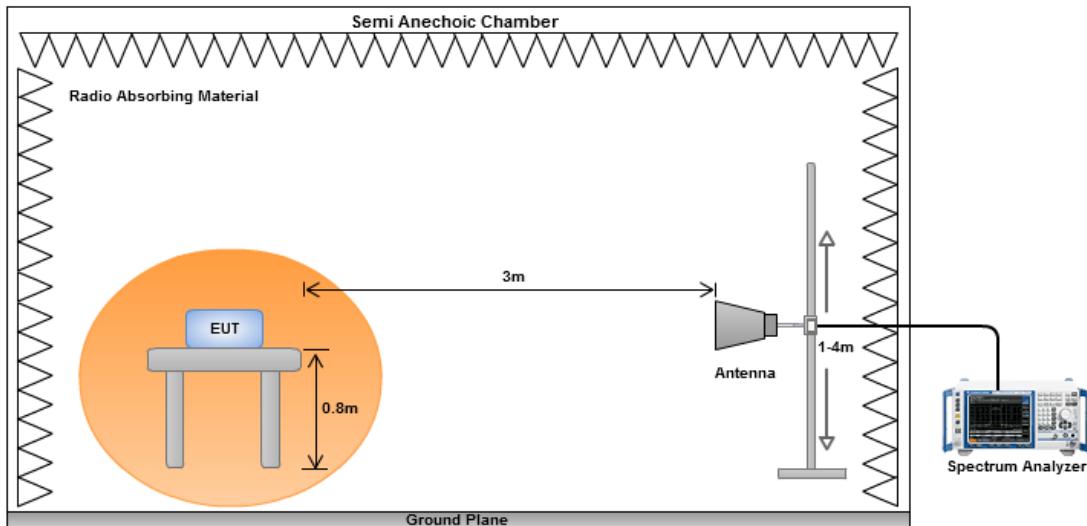
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

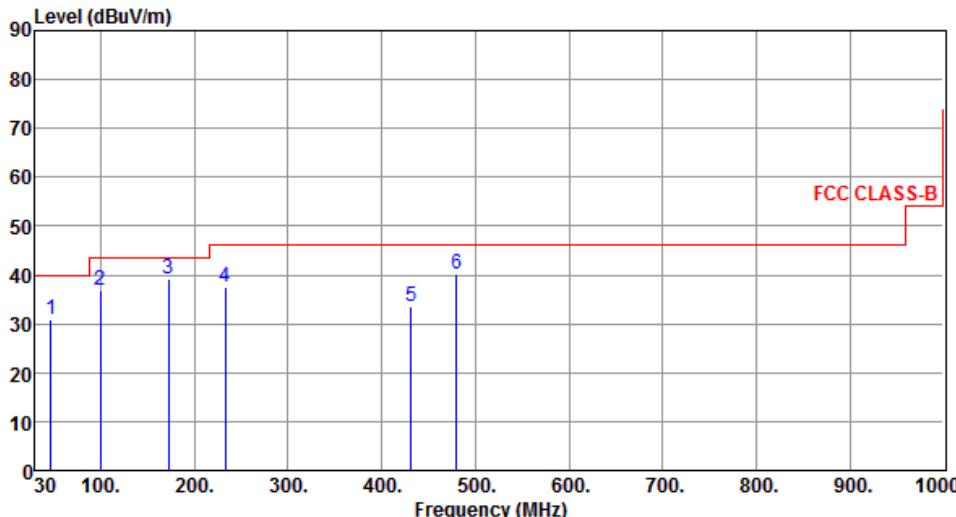
Radiated Emissions below 1 GHz

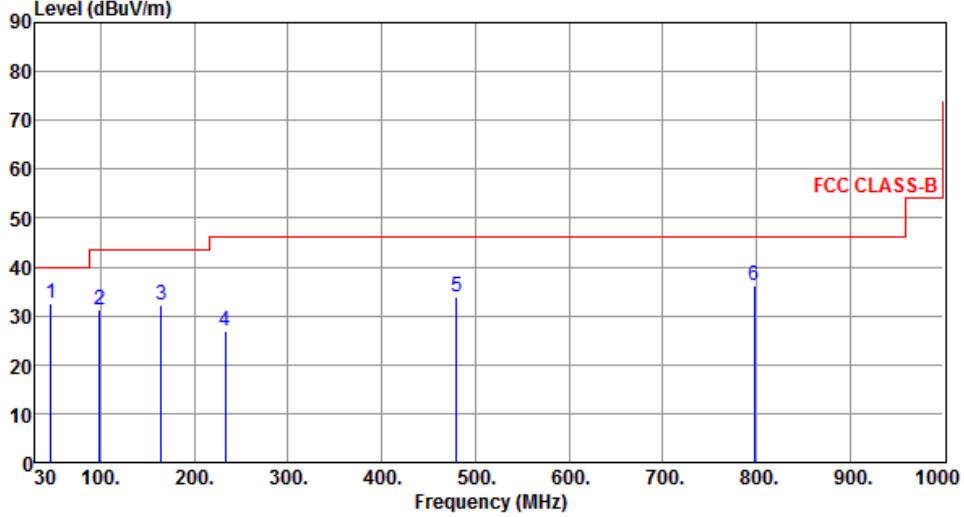


Radiated Emissions above 1 GHz

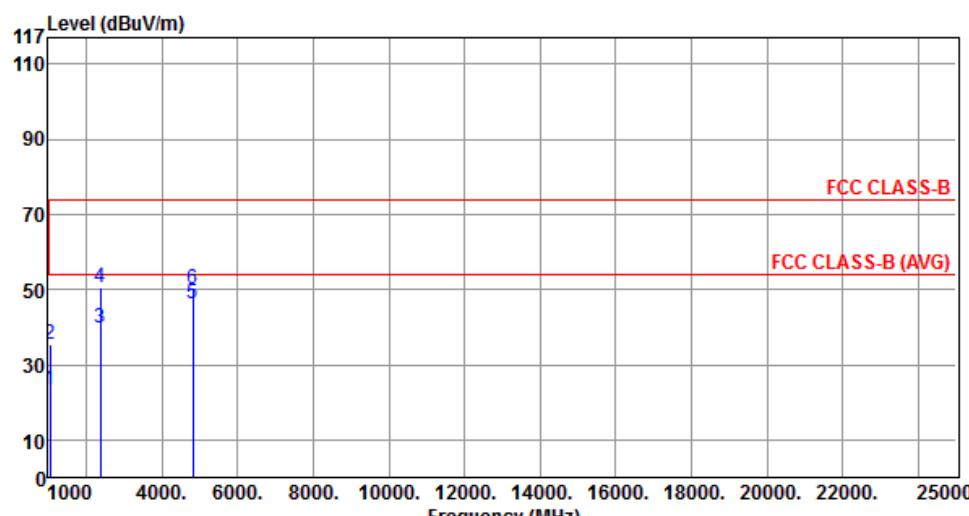


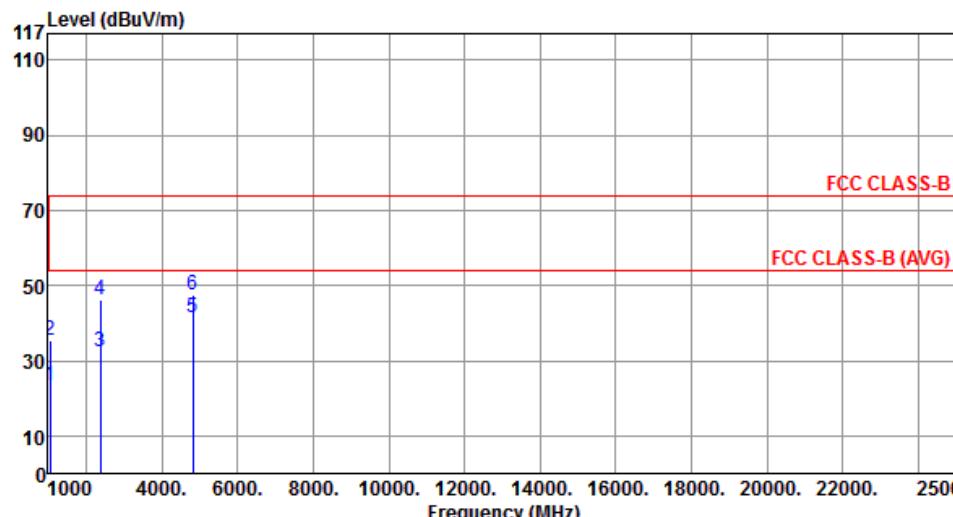
3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

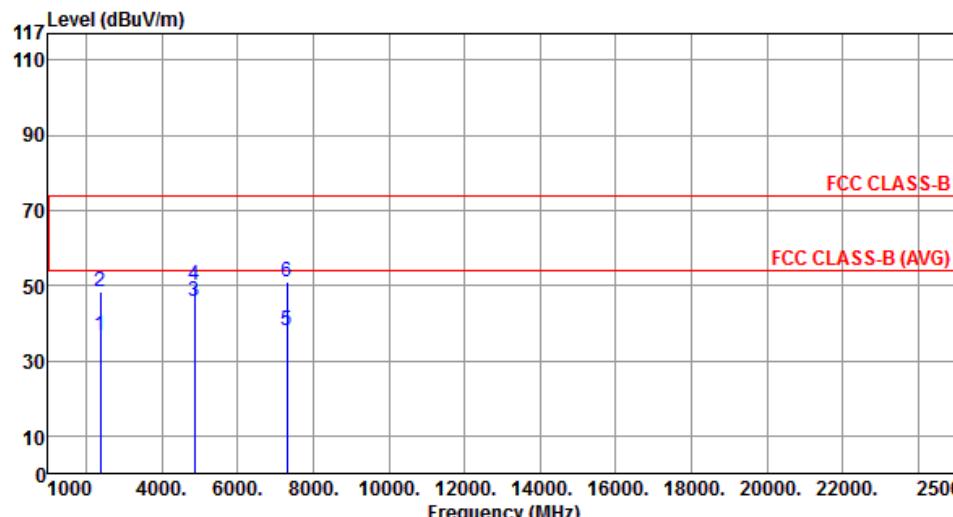
Modulation	HT40	Test Freq. (MHz)	2437																																																															
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3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

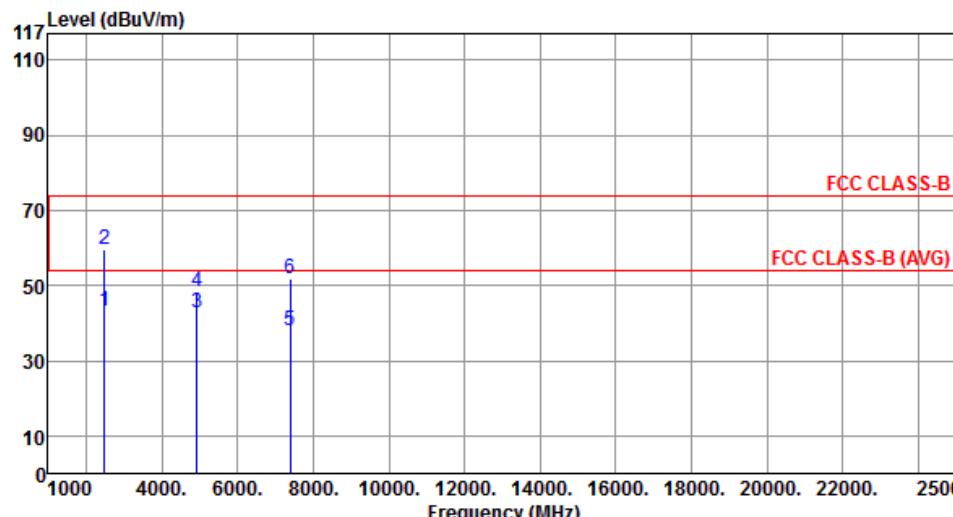
Modulation	11b	Test Freq. (MHz)	2412																																																															
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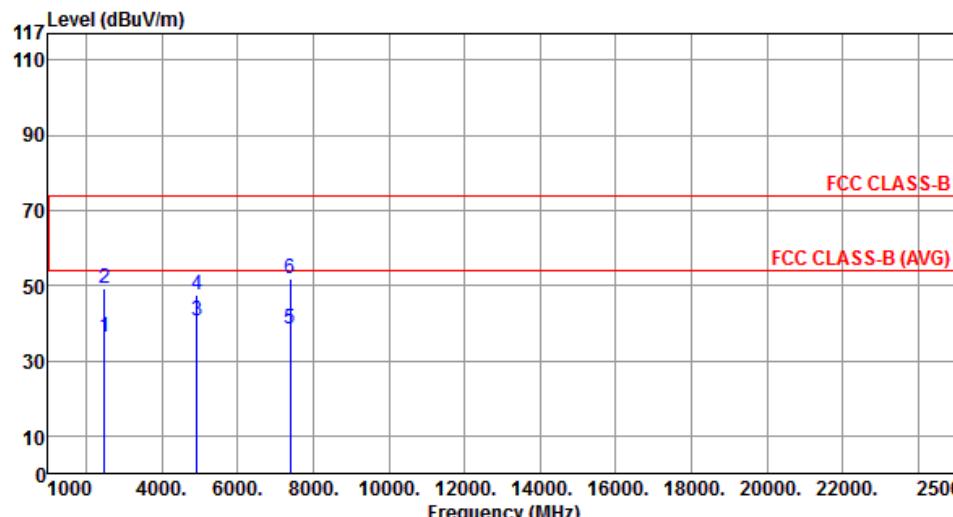
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5	7311.00	37.94	54.00	-16.06	25.94	12.00	Average	---																																																																			
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Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																											

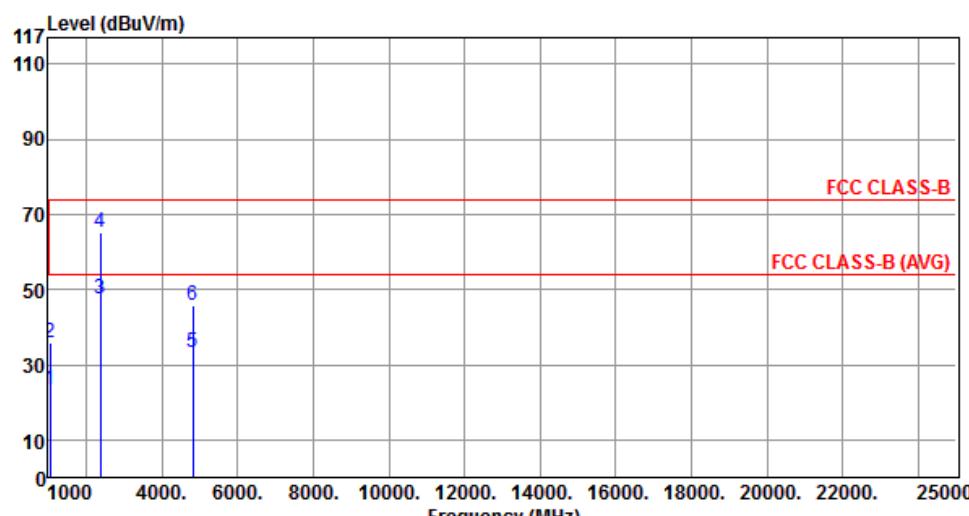
Modulation	11b	Test Freq. (MHz)	2437						
Polarization	Vertical								
Freq. Emission Limit Margin SA Factor Remark ANT Turn level level reading reading MHz dBuV/m dBuV/m dB dB									
1	2390.00	33.29	54.00	-20.71	35.29	-2.00	Average	---	---
2	2390.00	43.07	74.00	-30.93	45.07	-2.00	Peak	---	---
3	4874.00	40.25	54.00	-13.75	34.00	6.25	Average	---	---
4	4874.00	47.37	74.00	-26.63	41.12	6.25	Peak	---	---
5	7311.00	37.62	54.00	-16.38	25.62	12.00	Average	---	---
6	7311.00	51.58	74.00	-22.42	39.58	12.00	Peak	---	---

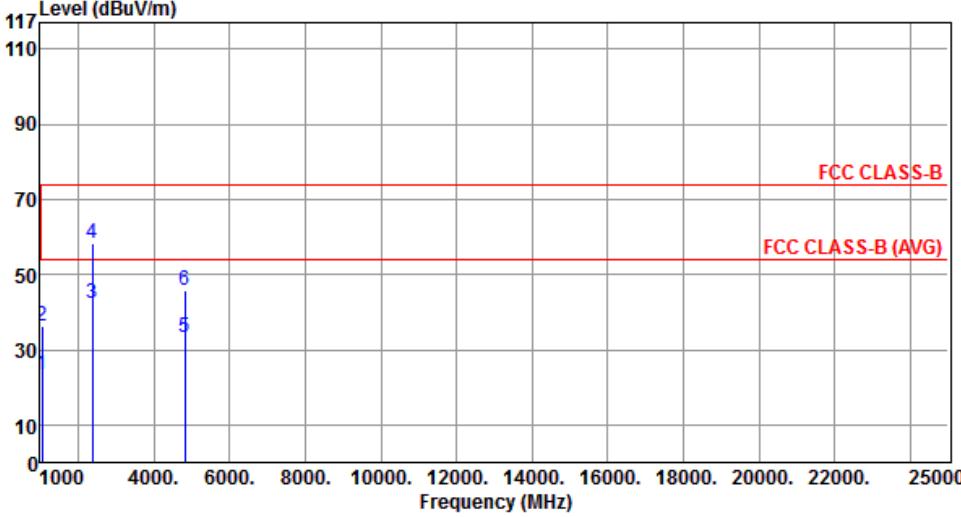
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
 *Factor includes antenna factor, cable loss and amplifier gain
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

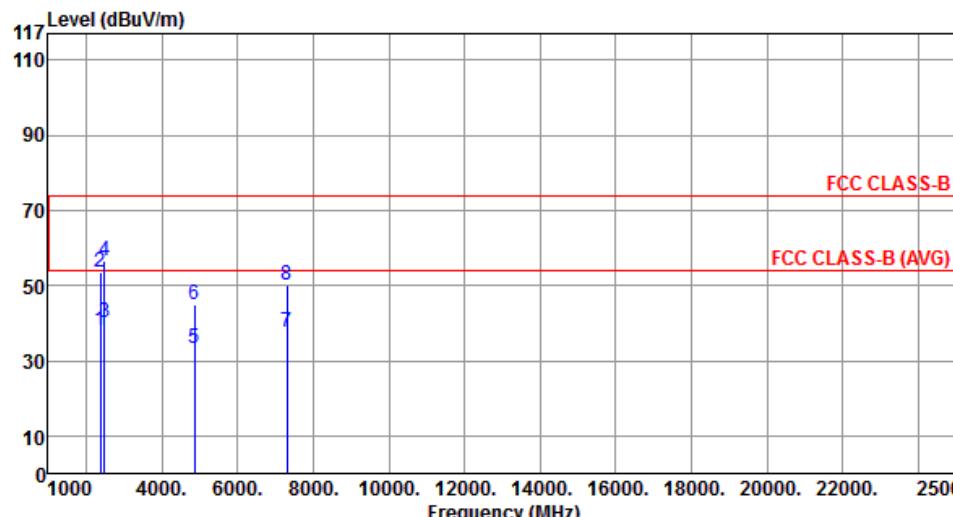
Modulation	11b	Test Freq. (MHz)	2462			
Polarization	Horizontal					
						
Freq. Emission Limit Margin SA Factor Remark ANT Turn level level reading reading MHz dBuV/m dBuV/m dB dB _____ 1 2483.50 42.99 54.00 -11.01 44.92 -1.93 Average --- --- 2 2483.50 59.37 74.00 -14.63 61.30 -1.93 Peak --- --- 3 4924.00 42.81 54.00 -11.19 36.45 6.36 Average --- --- 4 4924.00 48.54 74.00 -25.46 42.18 6.36 Peak --- --- 5 7386.00 37.95 54.00 -16.05 25.92 12.03 Average --- --- 6 7386.00 51.64 74.00 -22.36 39.61 12.03 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).						

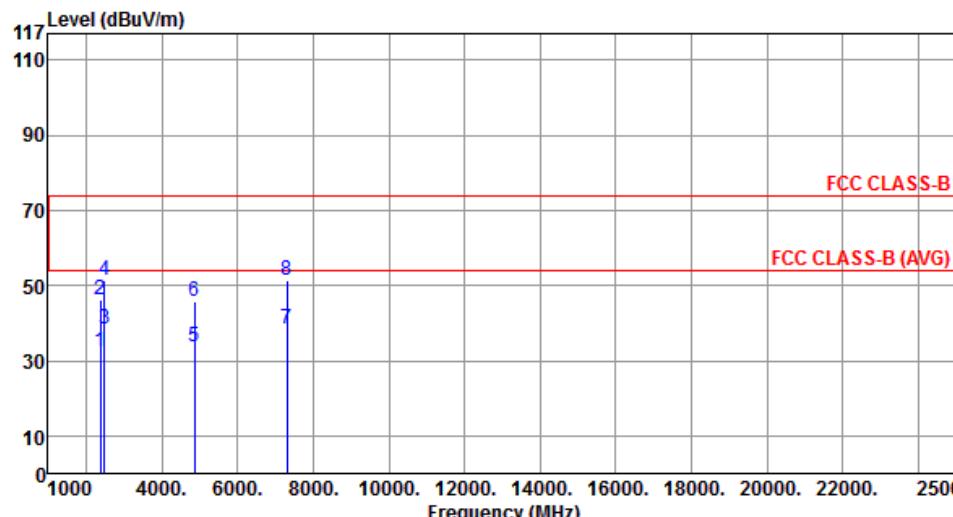
Modulation	11b	Test Freq. (MHz)	2462																																																																								
Polarization	Vertical																																																																										
																																																																											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Freq.</th> <th style="text-align: left;">Emission</th> <th style="text-align: left;">Limit</th> <th style="text-align: left;">Margin</th> <th style="text-align: left;">SA</th> <th style="text-align: left;">Factor</th> <th style="text-align: left;">Remark</th> <th style="text-align: left;">ANT</th> <th style="text-align: left;">Turn</th> </tr> <tr> <th style="text-align: left;">MHz</th> <th style="text-align: left;">level</th> <th style="text-align: left;">dBuV/m</th> <th style="text-align: left;">dB</th> <th style="text-align: left;">reading</th> <th style="text-align: left;">dB</th> <th></th> <th style="text-align: left;">High</th> <th style="text-align: left;">Table</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2483.50</td> <td>36.28</td> <td>54.00</td> <td>-17.72</td> <td>38.21</td> <td>-1.93</td> <td>Average</td> <td>---</td> </tr> <tr> <td>2</td> <td>2483.50</td> <td>49.32</td> <td>74.00</td> <td>-24.68</td> <td>51.25</td> <td>-1.93</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>3</td> <td>4924.00</td> <td>40.69</td> <td>54.00</td> <td>-13.31</td> <td>34.33</td> <td>6.36</td> <td>Average</td> <td>---</td> </tr> <tr> <td>4</td> <td>4924.00</td> <td>47.38</td> <td>74.00</td> <td>-26.62</td> <td>41.02</td> <td>6.36</td> <td>Peak</td> <td>---</td> </tr> <tr> <td>5</td> <td>7386.00</td> <td>38.25</td> <td>54.00</td> <td>-15.75</td> <td>26.22</td> <td>12.03</td> <td>Average</td> <td>---</td> </tr> <tr> <td>6</td> <td>7386.00</td> <td>51.61</td> <td>74.00</td> <td>-22.39</td> <td>39.58</td> <td>12.03</td> <td>Peak</td> <td>---</td> </tr> </tbody> </table>				Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn	MHz	level	dBuV/m	dB	reading	dB		High	Table	1	2483.50	36.28	54.00	-17.72	38.21	-1.93	Average	---	2	2483.50	49.32	74.00	-24.68	51.25	-1.93	Peak	---	3	4924.00	40.69	54.00	-13.31	34.33	6.36	Average	---	4	4924.00	47.38	74.00	-26.62	41.02	6.36	Peak	---	5	7386.00	38.25	54.00	-15.75	26.22	12.03	Average	---	6	7386.00	51.61	74.00	-22.39	39.58	12.03	Peak	---
Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																			
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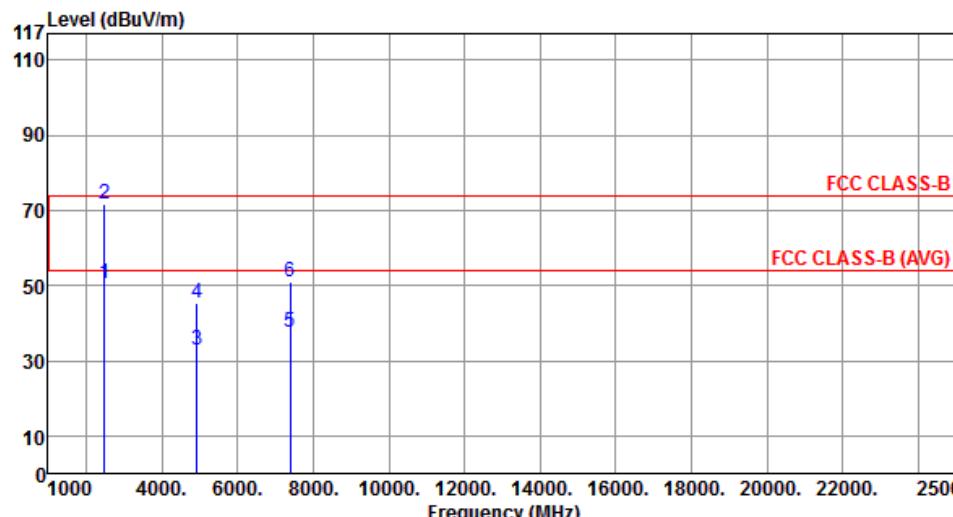
3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

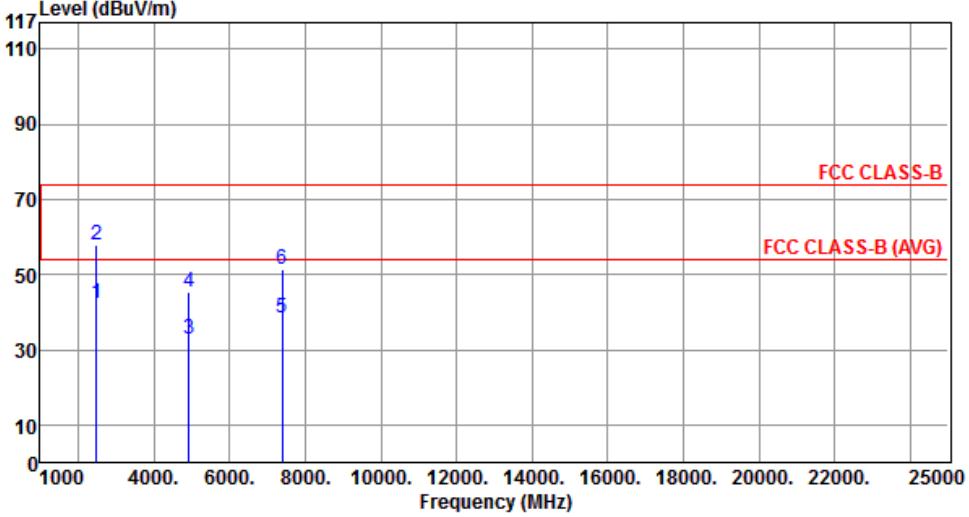
Modulation	11g	Test Freq. (MHz)	2412																																																															
Polarization	Horizontal																																																																	
																																																																		
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Freq.	Emission level MHz	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																										
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4	2390.00	65.26	74.00	-8.74	67.26	-2.00	Peak	---																																																										
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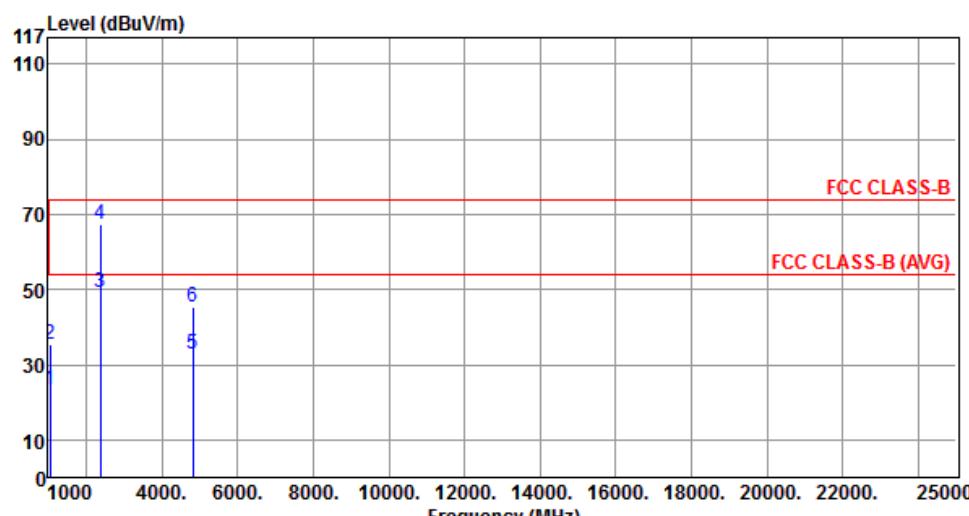
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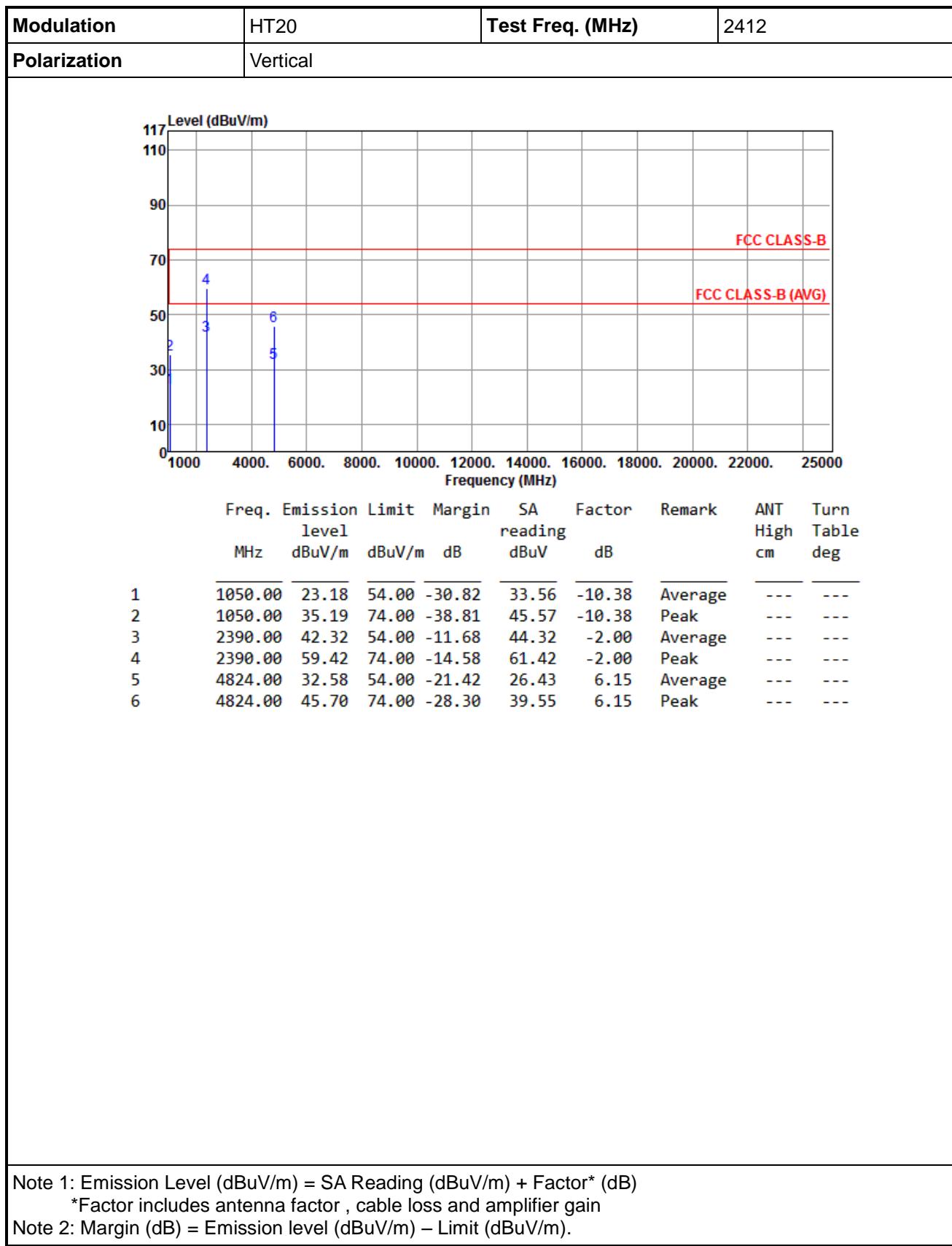
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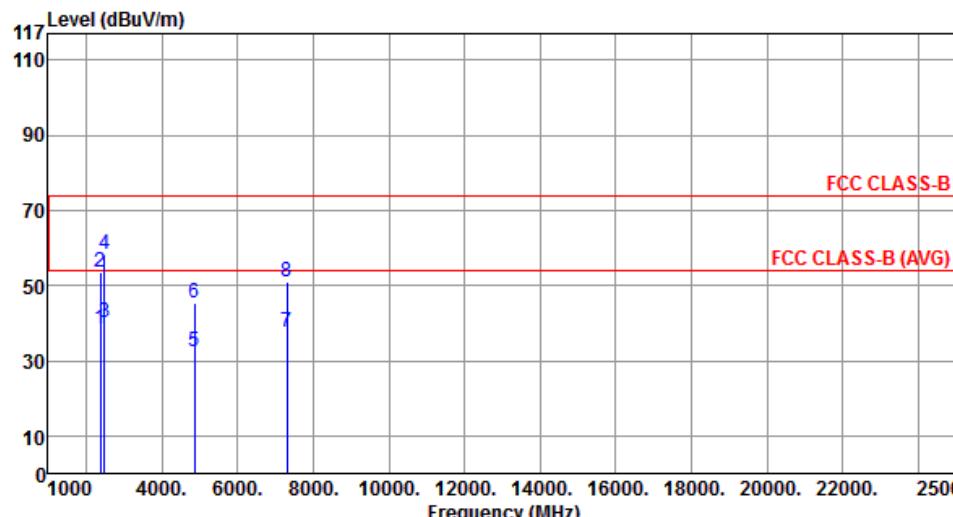
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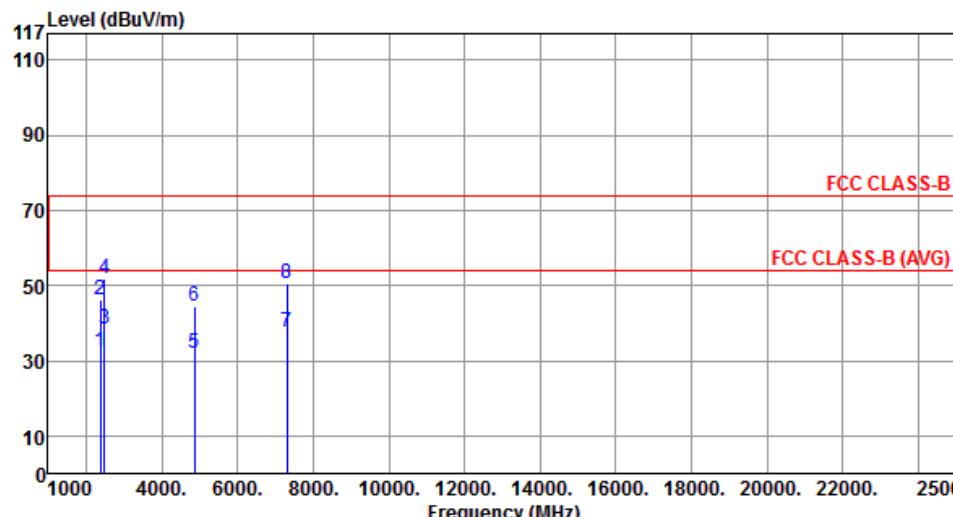
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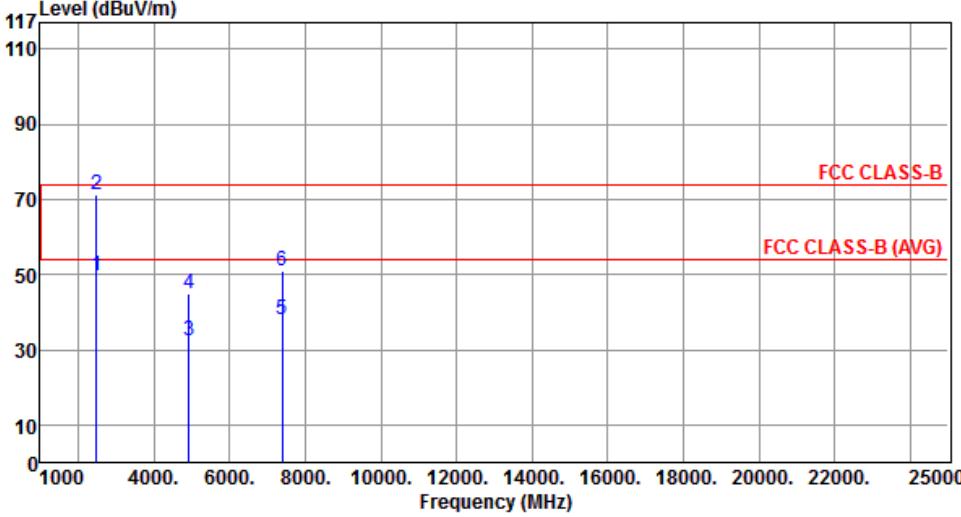
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

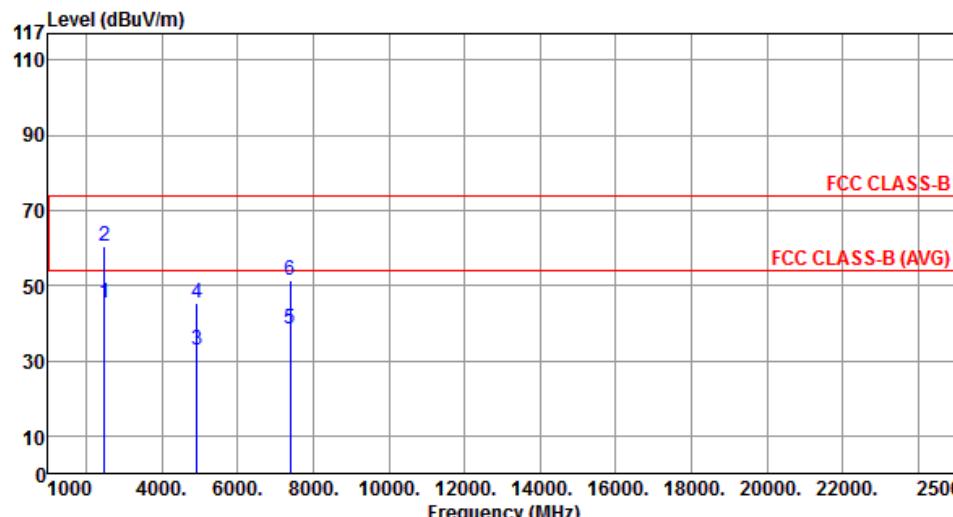
Modulation	HT20	Test Freq. (MHz)	2412																																																															
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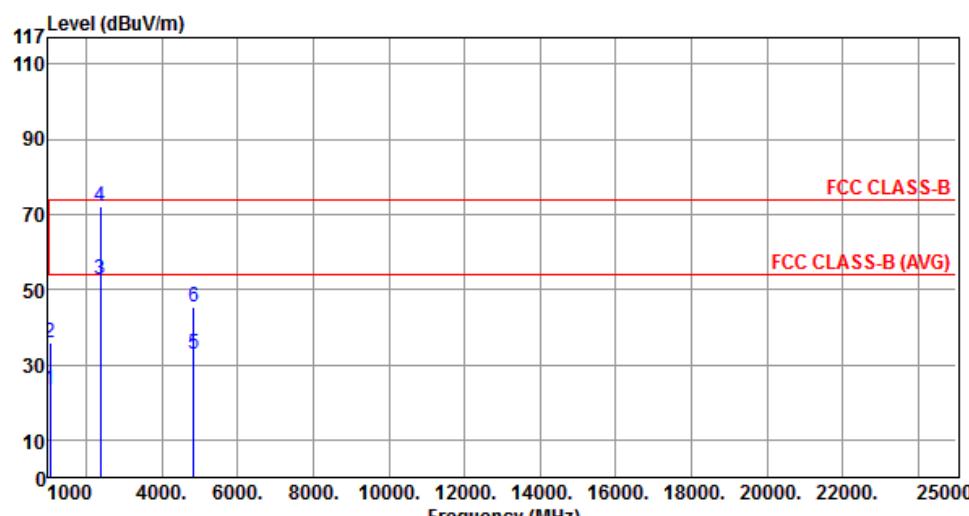
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6	4874.00	45.17	74.00	-28.83	38.92	6.25	Peak	---																																																																																					
7	7311.00	37.67	54.00	-16.33	25.67	12.00	Average	---																																																																																					
8	7311.00	51.13	74.00	-22.87	39.13	12.00	Peak	---																																																																																					
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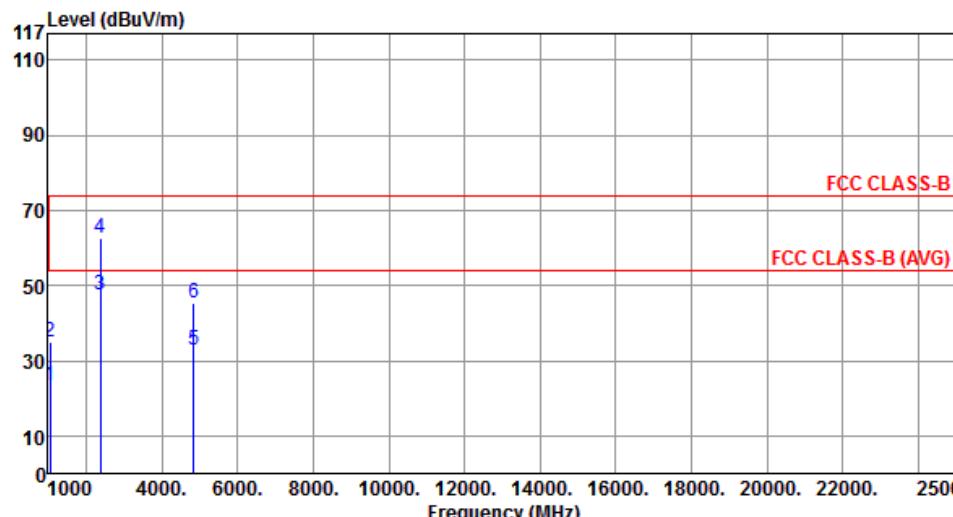
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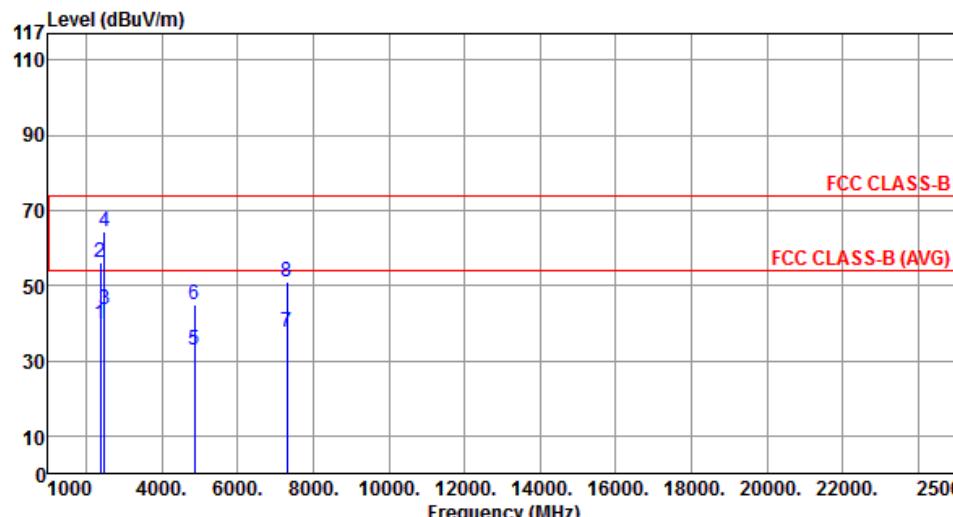
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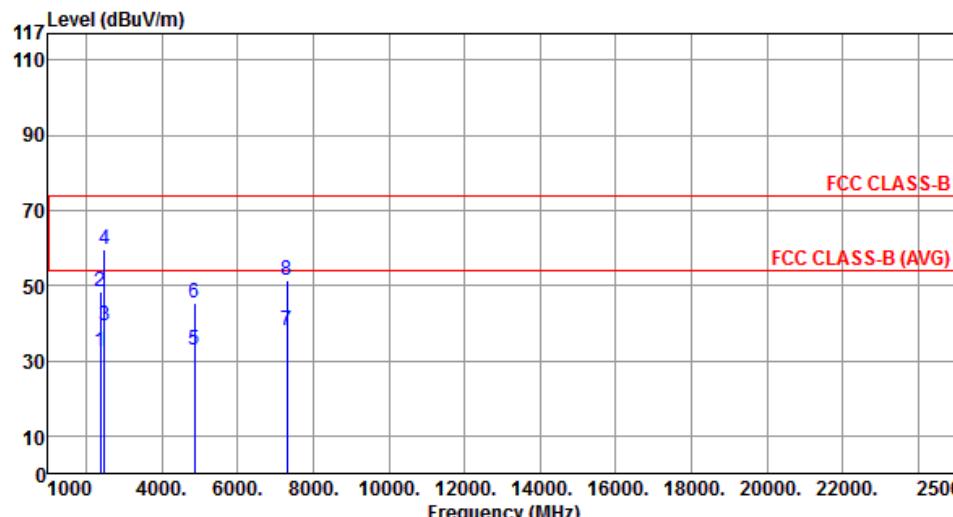
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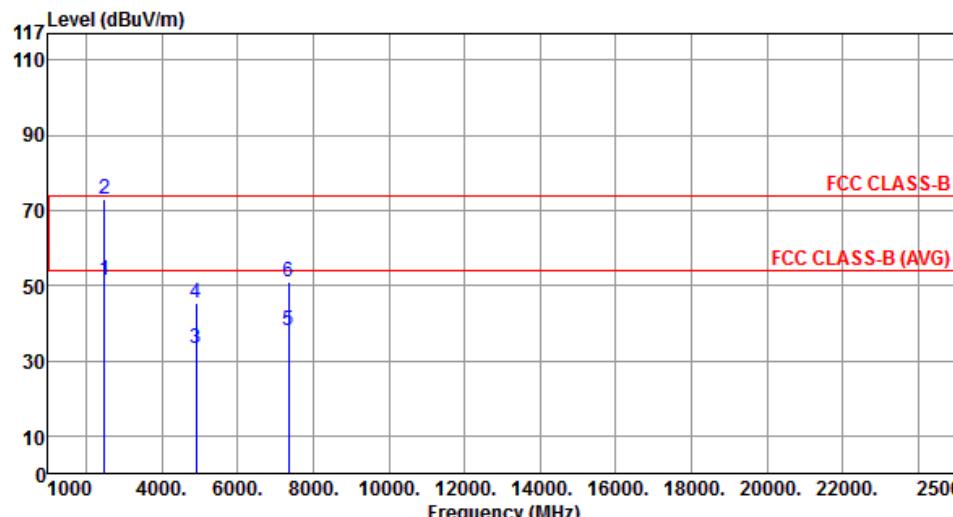
3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

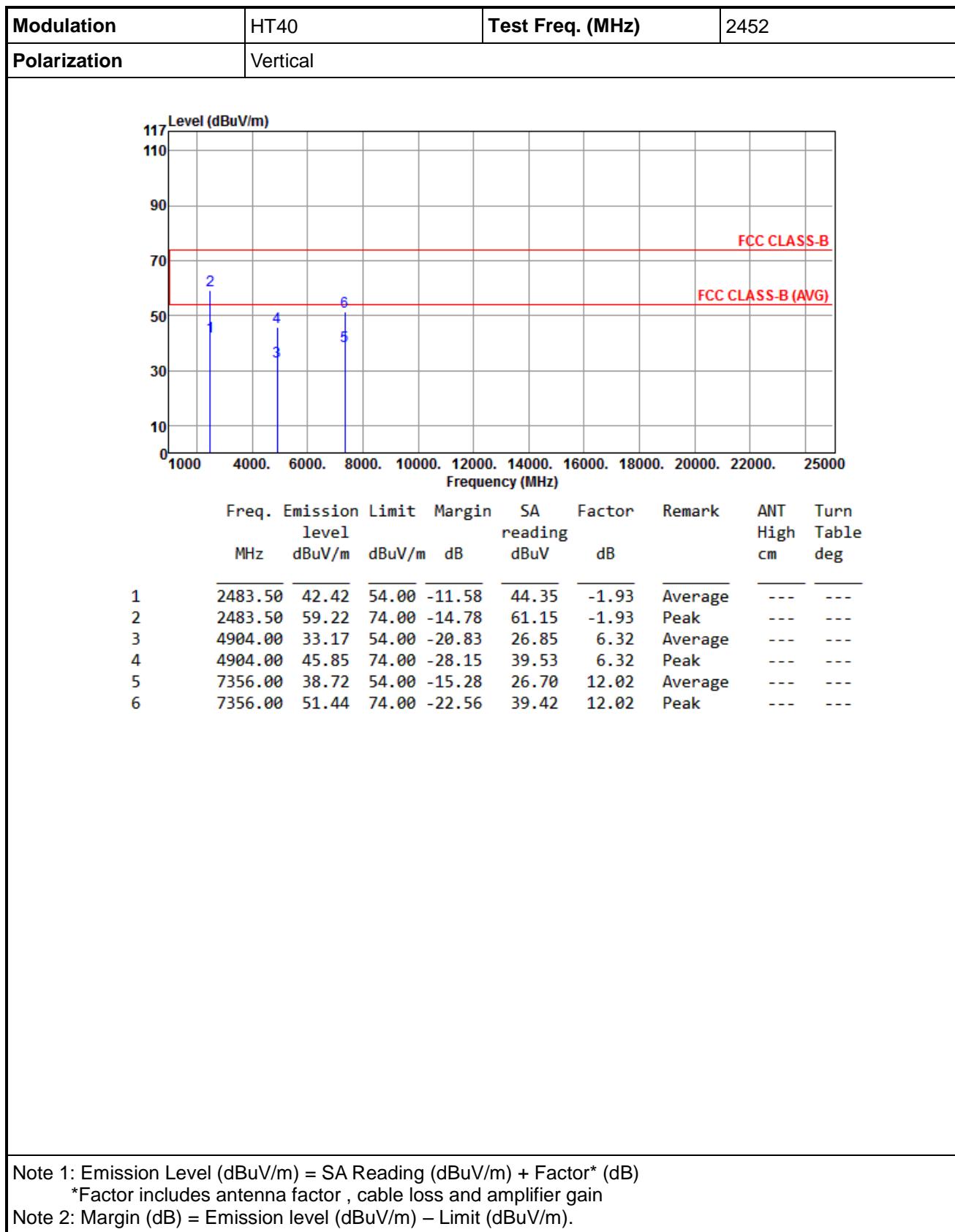
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3.6 Emissions in Non-Restricted Frequency Bands

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 20 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

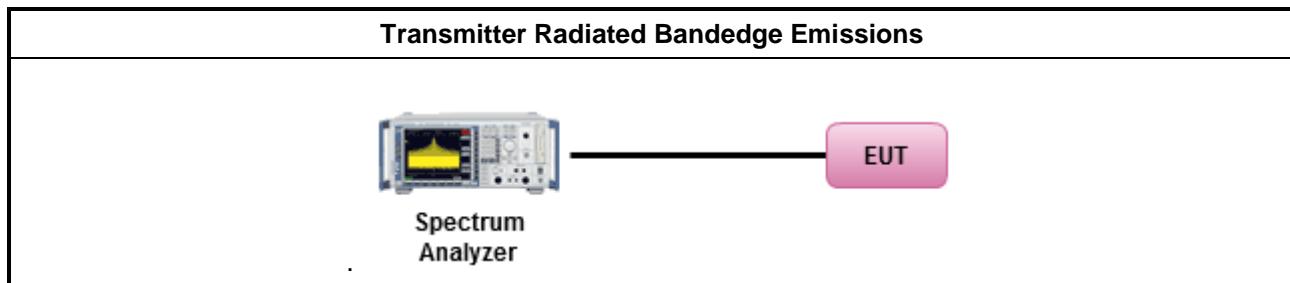
Reference level measurement

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

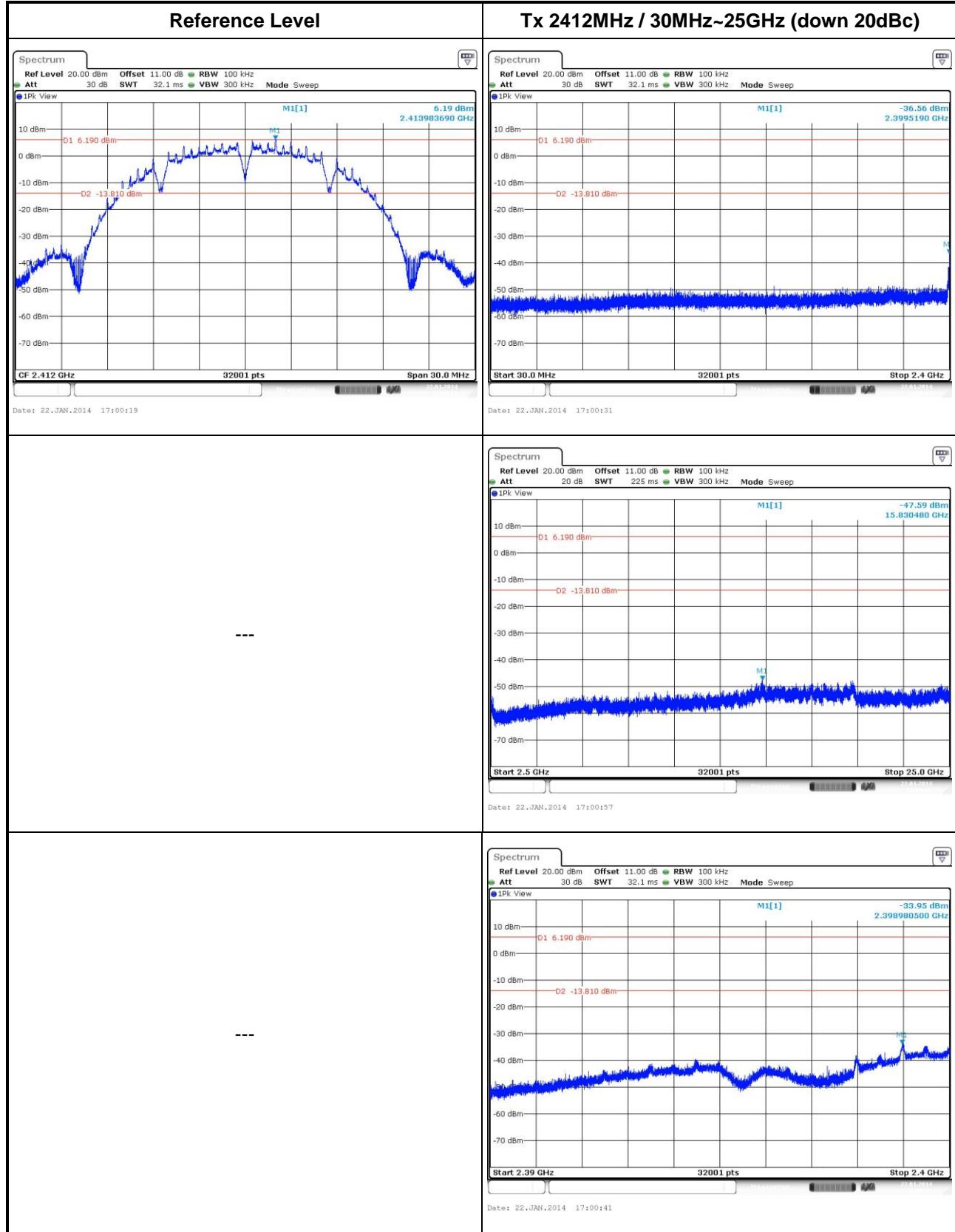


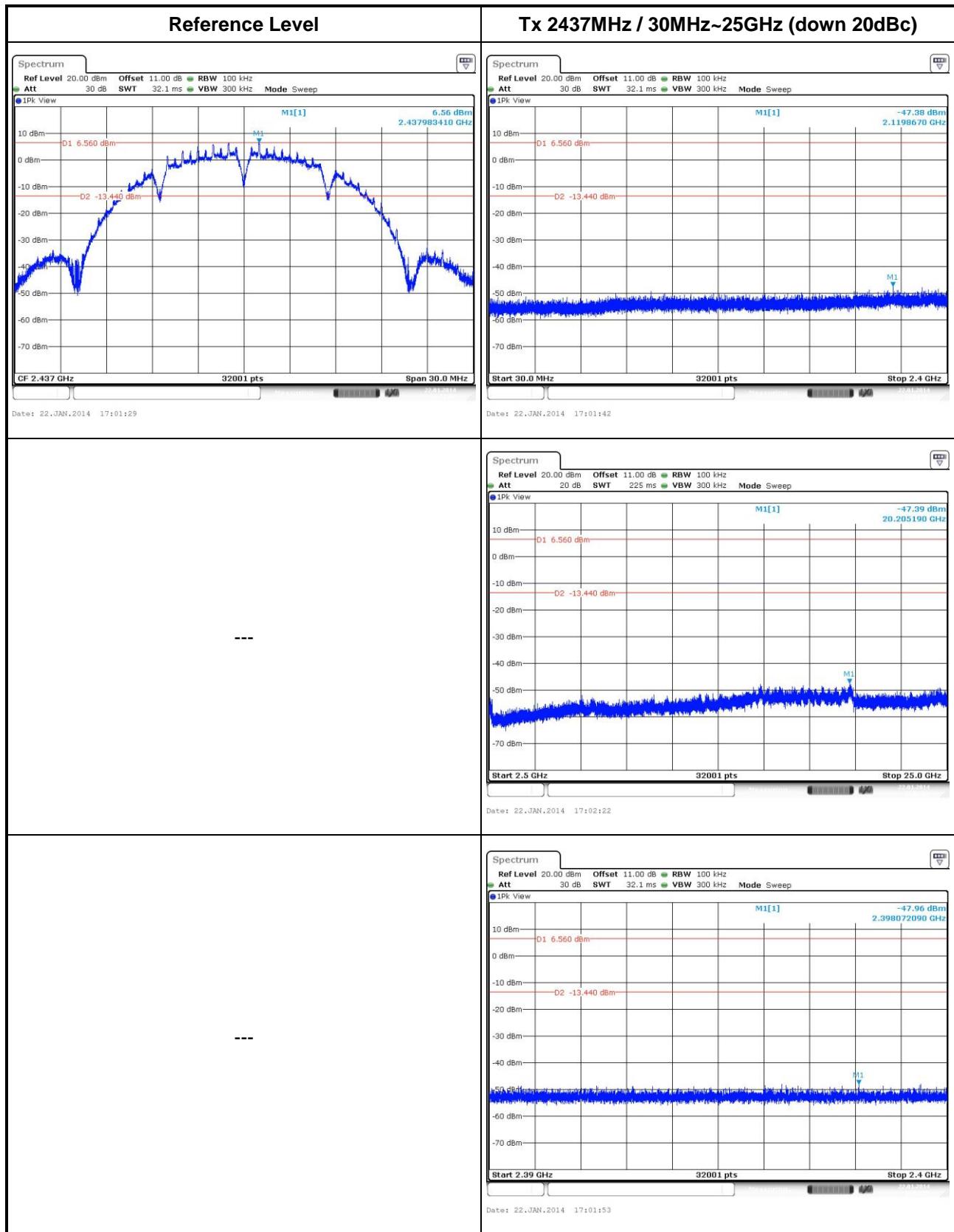
3.6.5 Test Result of Emissions in non-restricted frequency bands

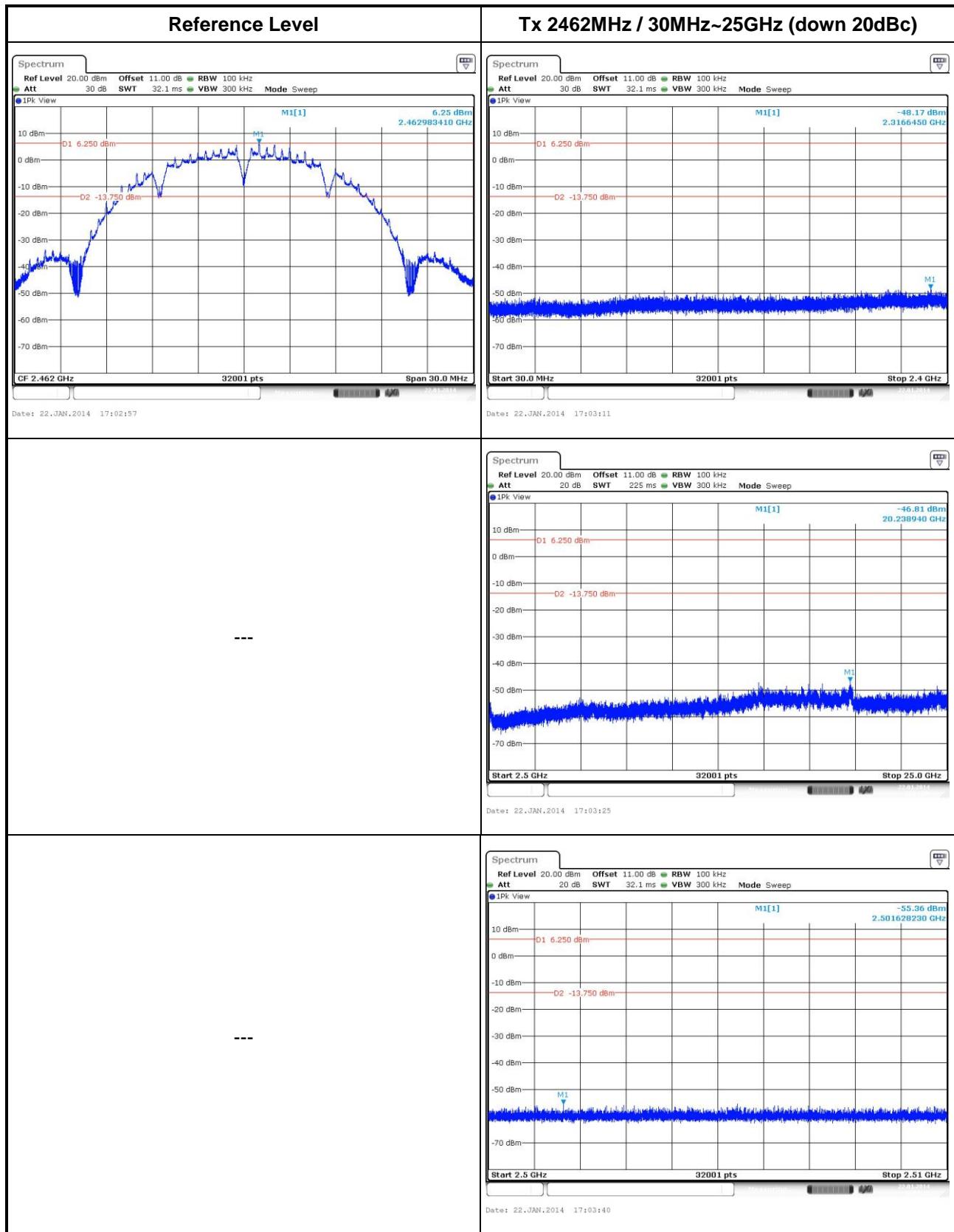
This test item is performed on each TX output individually without summing or adding $10 \log(N_{ANT})$ since measurements are made relative to the in-band emissions on the individual outputs. Only worst test result of each operating mode is presented.

3.6.6 Unwanted Emissions into Non-Restricted Frequency Bands

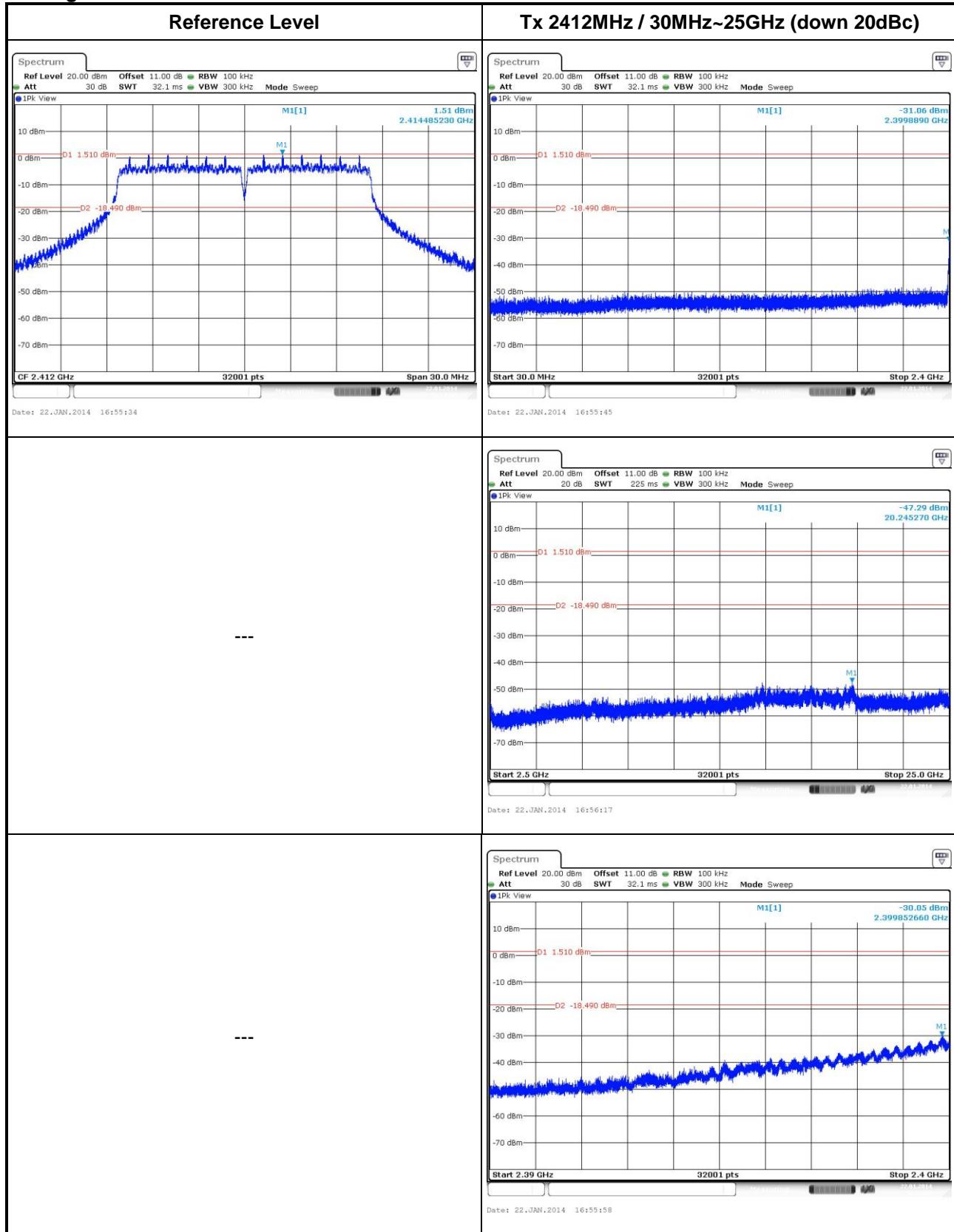
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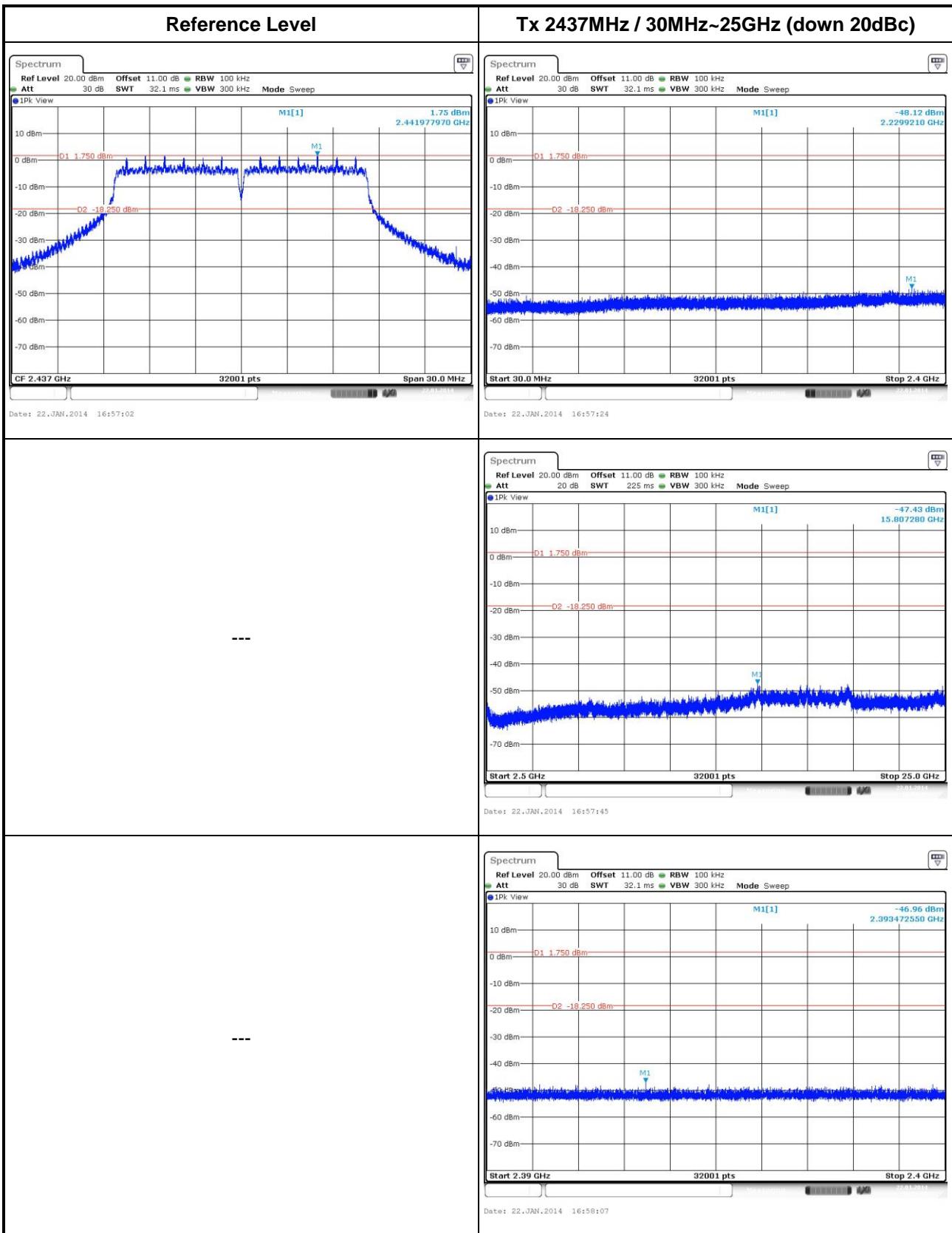


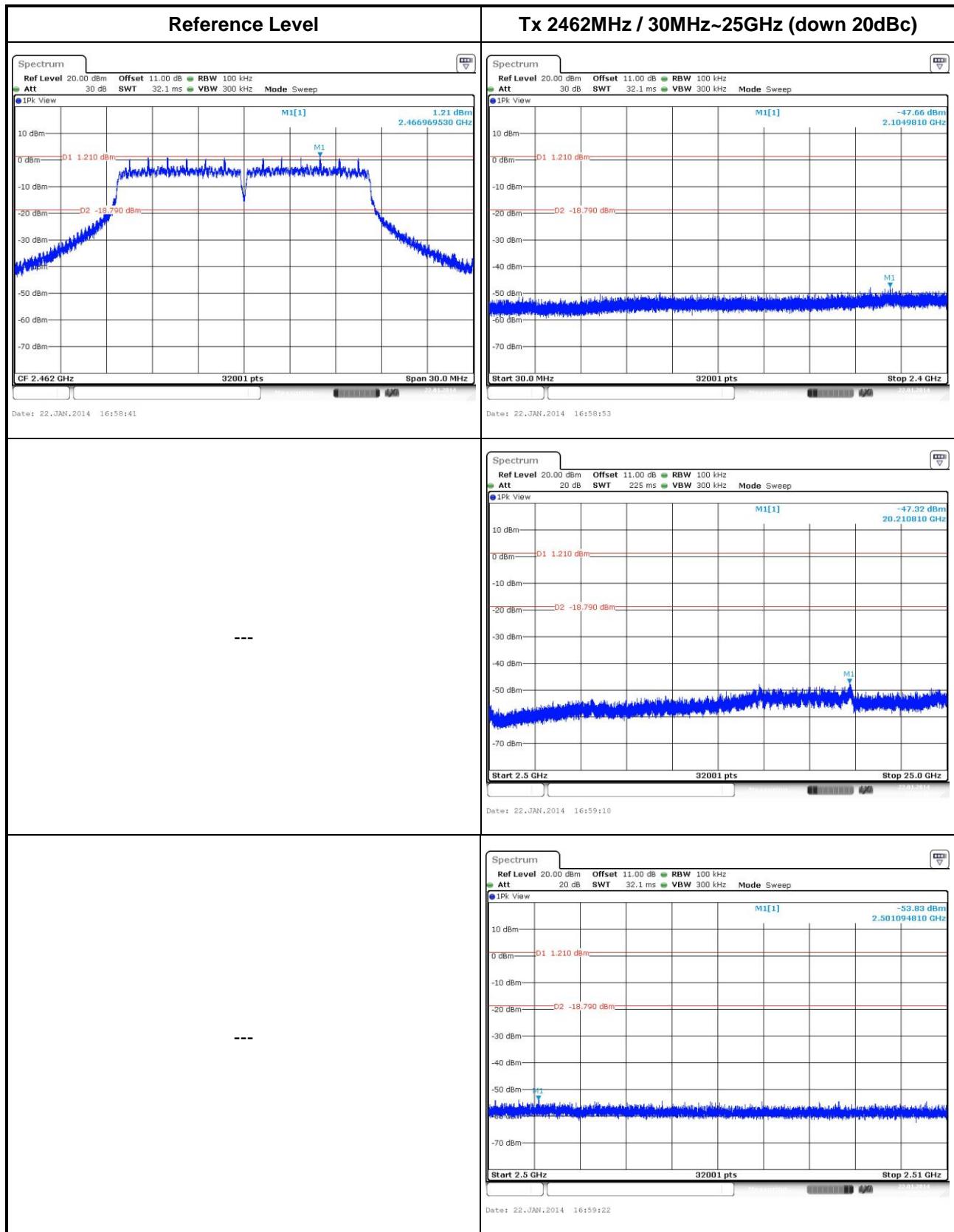




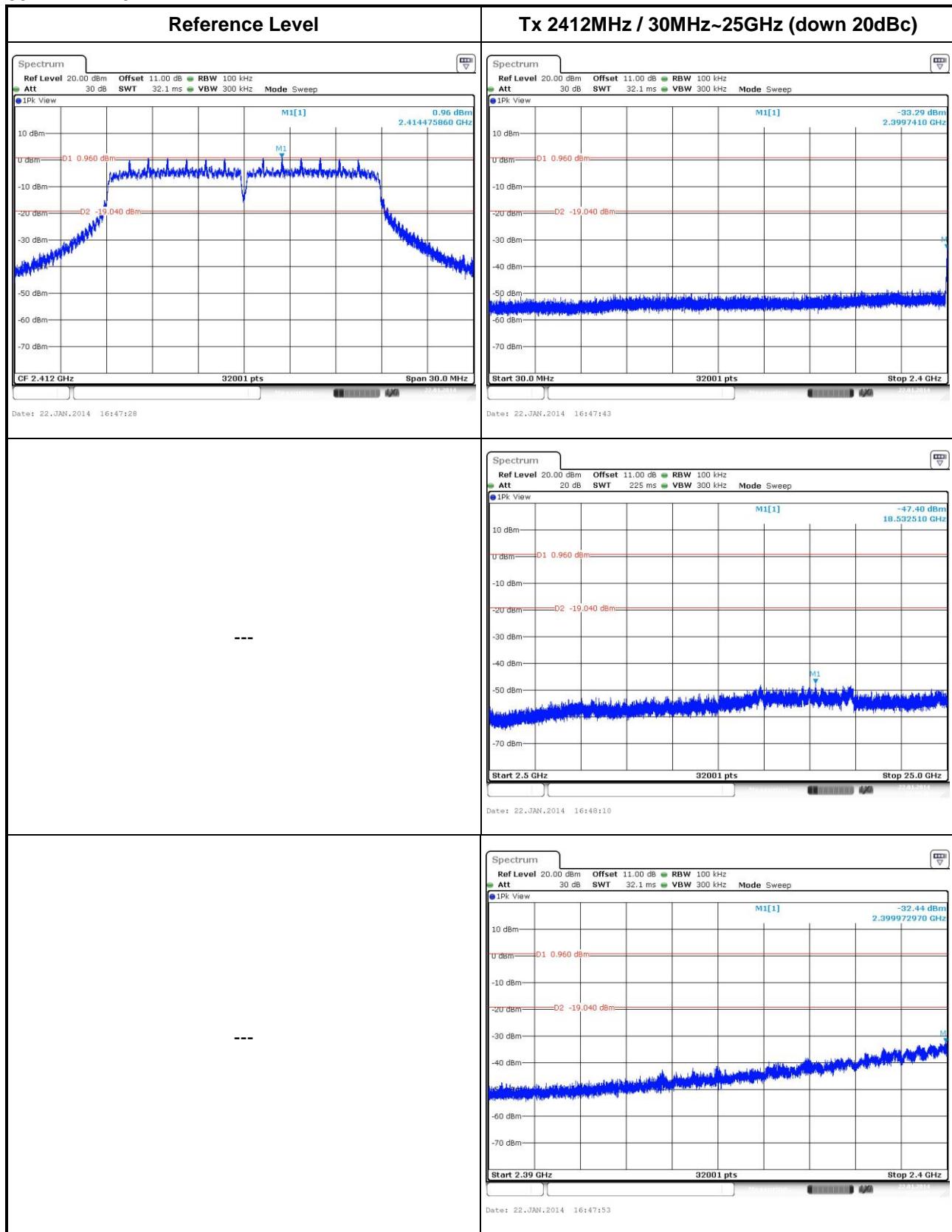
802.11g

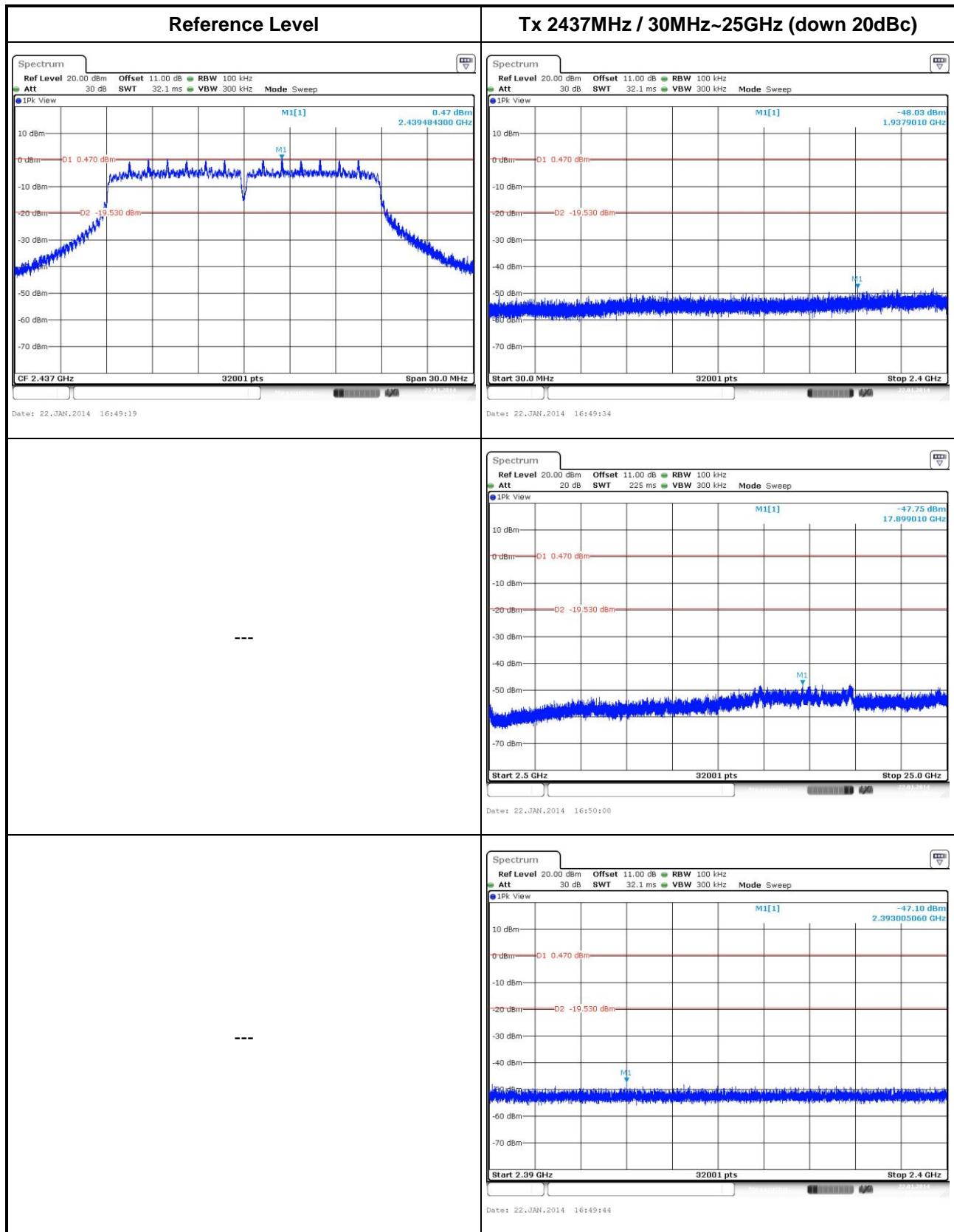


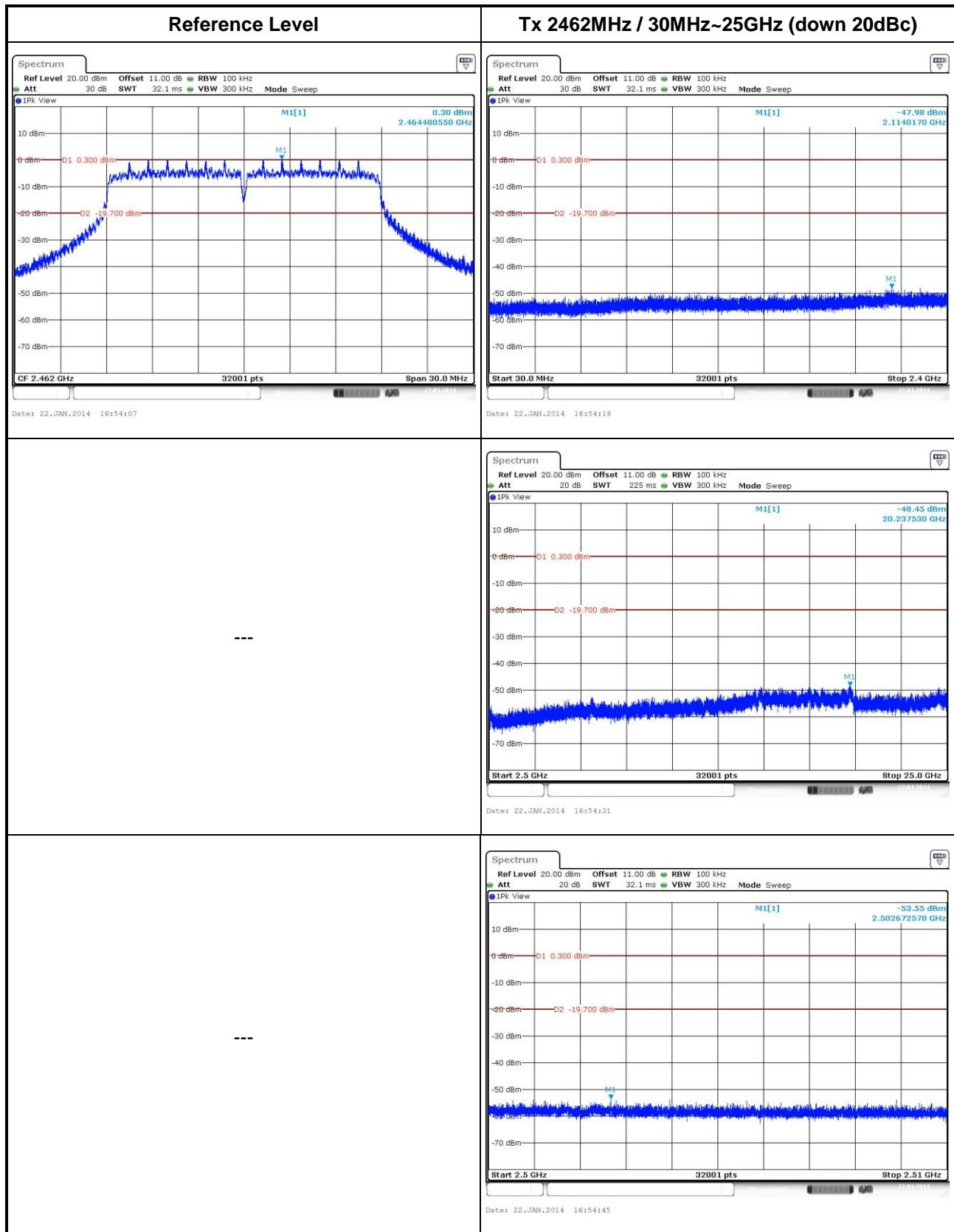




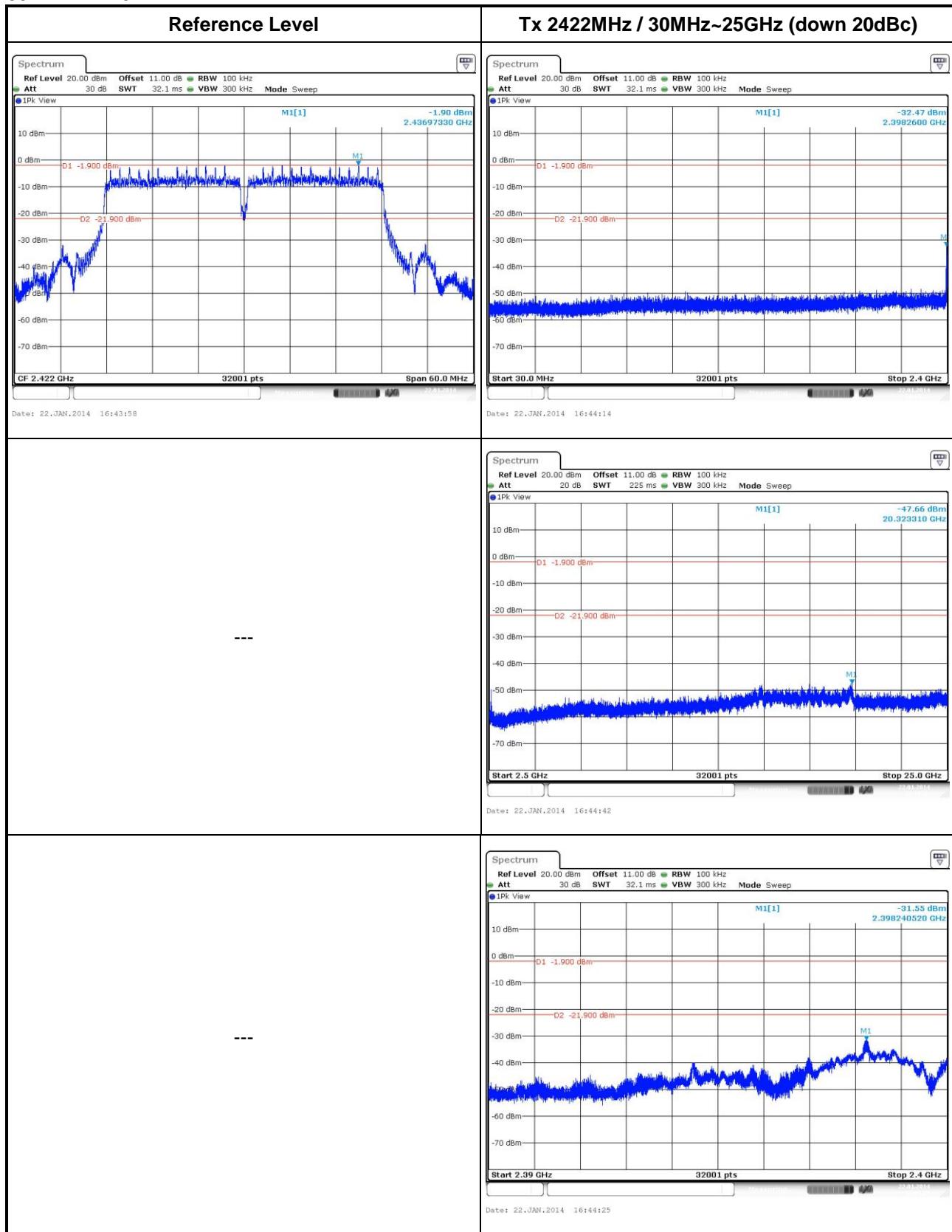
802.11n HT20

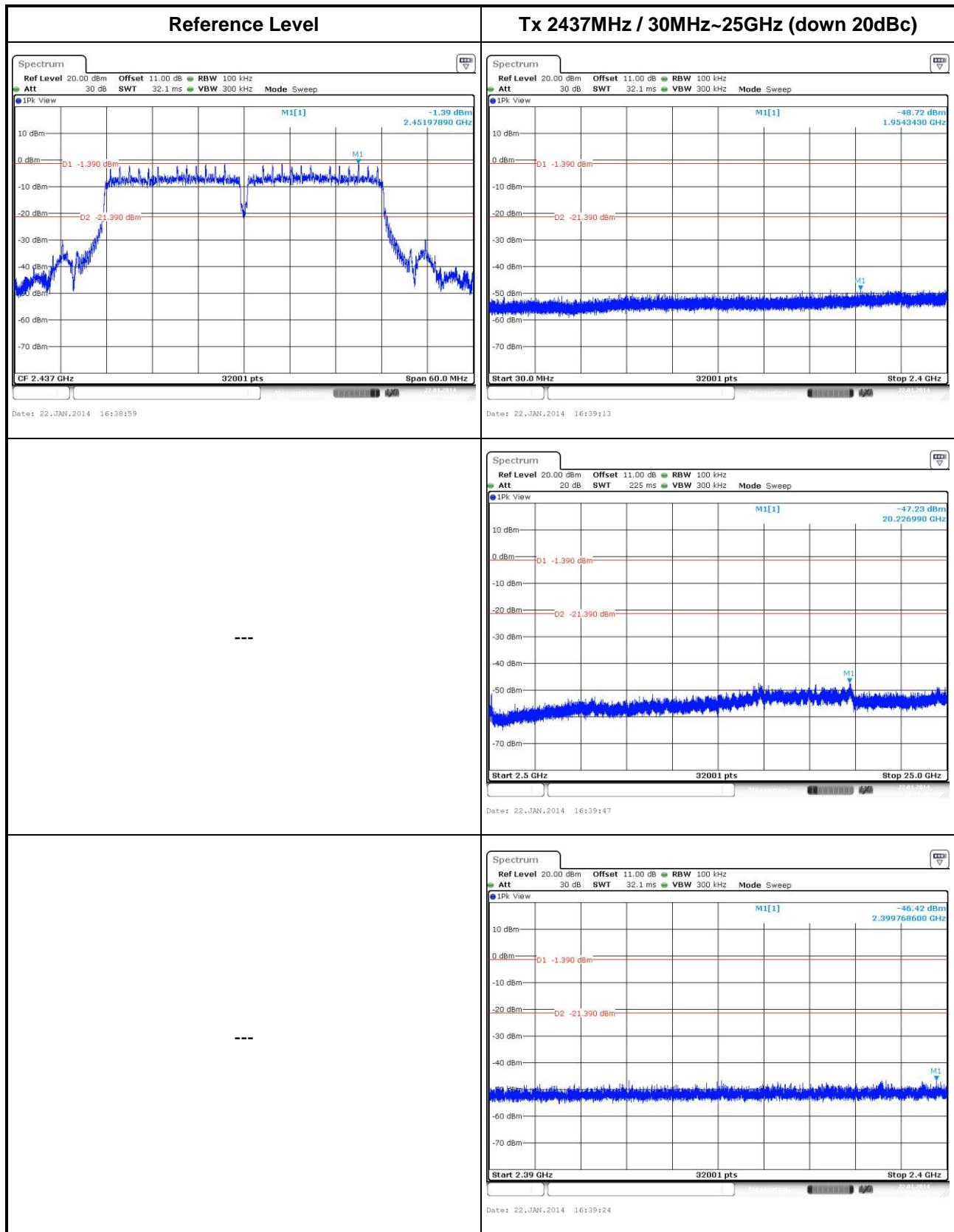


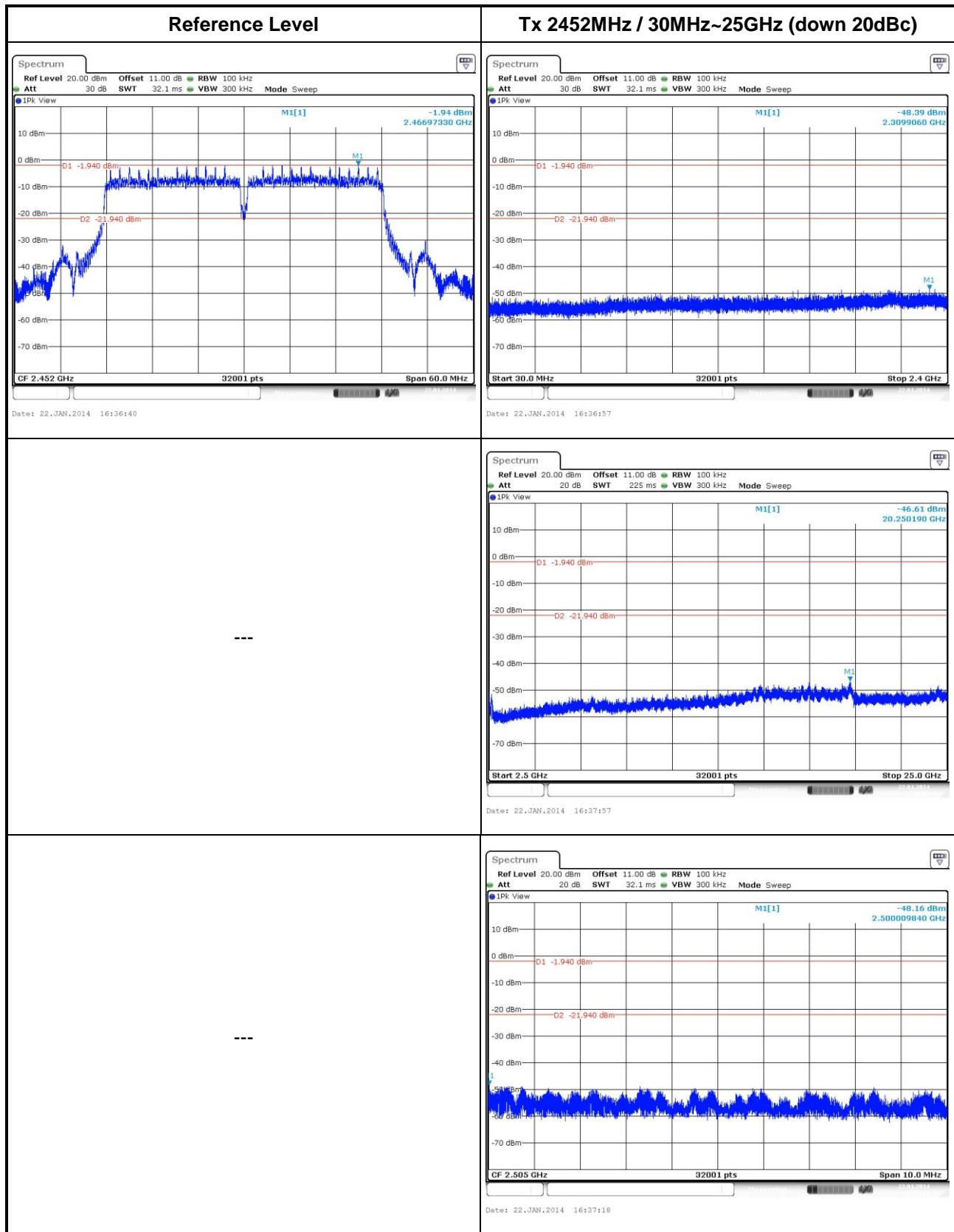




802.11n HT40







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.

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==