

FCC Test Report

Equipment : Wireless Monitoring Tool
Brand Name : CBC
Model No. : ZW-N22F
FCC ID : SF9ZW-N22F
Standard : 47 CFR FCC Part 15.247
Frequency : 2400 MHz – 2483.5 MHz
FCC Classification : DTS
Applicant : CBC Co., Ltd.
2-15-13 Tsukishima, Chuo-ku, Tokyo 104-0052, Japan
Manufacturer : EDIMAX TECHNOLOGY CO., LTD.
No.3,Wu-Chuan 3rd Road,Wu-Ku Industrial Park, New
Taipei City, Taiwan

The product sample received on Jul. 13, 2016 and completely tested on Jul. 15, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by:


Kevin Liang / Assistant Manager

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Appendix I. Test Result of AC Power-line Conducted Emissions

Appendix A. Test Result of Emission Bandwidth

Appendix B. Test Result of Maximum Conducted Output Power

Appendix C. Test Result of Power Spectral Density

Appendix D. Test Result of Transmitter Radiated Bandedge Emissions

Appendix E. Transmitter Radiated Unwanted Emissions

Appendix F. Test Photos

Appendix G. Photographs of EUT

Summary of Test Result

Conformance Test Specifications					
Report Clause	Ref. Std. Clause	Description	Measured	Limit	Result
1.1.2	15.203	Antenna Requirement	Antenna connector mechanism complied	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	[dBuV]: 17.694 MHz 47.36 (Margin 12.64dB) - QP 46.07 (Margin 3.93dB) - AV	FCC 15.207	Complied
3.2	15.247(a)	DTS Bandwidth	Refer as Appendix A	≥500kHz	Complied
3.3	15.247(b)	Fundamental Emission Output Power	Refer as Appendix B	Power [dBm]:30	Complied
3.4	15.247(e)	Power Spectral Density	Refer as Appendix C	PSD [dBm/3kHz]:8	Complied
3.5	15.247(d)	Test Result of Transmitter Radiated Bandedge Emissions	Non-Restricted Bands: 2412 MHz: 28.52 dB Restricted Bands [dBuV/m at 3m]: 2389.992MHz 71.59 (Margin 2.41 dB) - PK 52.73 (Margin 1.27 dB) - AV	Non-Restricted Bands:> 20 dBc Bands: FCC 15.209	Complied
3.6	15.247(d)	Transmitter Radiated Unwanted Emissions	Restricted Bands [dBuV/m at 3m]: 7311.00 MHz 52.98 (Margin 1.02dB) - AV 58.75 (Margin 15.25dB) - PK	Non-Restricted Bands:> 20 dBc Restricted Bands: FCC 15.209	Complied

Revision History

[illegible]

1 General Description

1.1 Information

1.1.1 RF General Information

Band	Mode	BWch (MHz)	Nss-Min	Nant
2.4G	11b	20	1	1
2.4G	11g	20	1	1
2.4G	HT20	20	1,(M0-7)	1
2.4G	HT40	40	1,(M0-7)	1

Note:

- ♦ 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Antenna Category	
☐	Integral antenna (antenna permanently attached)
☐	Temporary RF connector provided
☐	No temporary RF connector provided Transmit chains bypass antenna and soldered temporary RF connector provided for connected measurement. In case of conducted measurements the transmitter shall be connected to the measuring equipment via a suitable attenuator and correct for all losses in the RF path.
☒	External antenna (dedicated antennas)
☒	Single power level with corresponding antenna(s).
☐	Multiple power level and corresponding antenna(s).
☒	RF connector provided
☒	Unique antenna connector. (e.g., MMCX, U.FL, IPX, and RP-SMA, RP-N type...)
☐	Standard antenna connector. (e.g., SMA, N, BNC, and TNC type...)

Antenna General Information			
No.	Ant. Cat.	Ant. Type	Gain (dBi)
1	External	Dipole	3

1.1.3 Type of EUT

Identify EUT	
EUT Serial Number	N/A
Presentation of Equipment	☐ Production ; ☐ Pre-Production ; ☒ Prototype
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
☐	Other:

1.1.4 Mode Test Duty Cycle

Operated Mode for Worst Duty Cycle	
☒ Operated test mode for worst duty cycle	
Test Signal Duty Cycle (x)	Power Duty Factor [dB] – (10 log 1/x)
☒ 98.7% - IEEE 802.11b	0.06
☒ 93%- IEEE 802.11g	0.32
☒ 93.3%- IEEE 802.11n (HT20)	0.30
☒ 87.4%- IEEE 802.11n (HT40)	0.58

1.1.5 EUT Operational Condition

Supply Voltage	☒ AC mains	☐ DC	
Type of DC Source	☒ External AC adapter	☐ From Host System	☐ Battery

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 558074 D01 v03r05

1.3 Testing Location Information

Testing Location				
☒	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.		
		TEL : 886-3-327-3456	FAX : 886-3-318-0055	
Test Condition		Test Site No.	Test Engineer	Test Environment
AC Conduction		CO04-HY	Ryan	23°C / 58%
RF Conducted		TH01-HY	Ryan	23.5°C / 65%
Radiated		03CH03-HY	Daniel	23.6°C / 57%

Test site registered number [553509] with FCC.

1.4 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		
Test Item		Uncertainty
AC power-line conducted emissions		±2.3 dB
Emission bandwidth, 6dB bandwidth		±0.6 %
RF output power, conducted		±0.1 dB
Power density, conducted		±0.6 dB
Unwanted emissions, conducted	9 – 150 kHz	±0.4 dB
	0.15 – 30 MHz	±0.4 dB
	30 – 1000 MHz	±0.6 dB
	1 – 18 GHz	±0.5 dB
	18 – 40 GHz	±0.5 dB
	40 – 200 GHz	N/A
All emissions, radiated	9 – 150 kHz	±2.5 dB
	0.15 – 30 MHz	±2.3 dB
	30 – 1000 MHz	±2.6 dB
	1 – 18 GHz	±3.6 dB
	18 – 40 GHz	±3.8 dB
	40 – 200 GHz	N/A
Temperature		±0.8 °C
Humidity		±5 %
DC and low frequency voltages		±0.9%
Time		±1.4 %
Duty Cycle		±0.6 %

2 Test Configuration of EUT

2.1 The Worst Case Modulation Configuration

Worst Modulation Used for Conformance Testing			
Modulation Mode	Transmit Chains (N _{TX})	Data Rate / MCS	Worst Data Rate / MCS
11b	1	1-11 Mbps	1 Mbps
11g	1	6-54 Mbps	6 Mbps
HT20	1	MCS 0-7	MCS 0
HT40	1	MCS 0-7	MCS 0

Note 1: IEEE Std. 802.11n modulation consists of HT20 and HT40 (HT: High Throughput). The EUT support HT20 and HT40. Worst modulation mode of Guard Interval (GI) is 800ns.

Note 2: Modulation modes consist below configuration:
11b: IEEE 802.11b, 11g: IEEE 802.11g, HT20/HT40: IEEE 802.11n

Note 3: RF output power specifies that Maximum Peak Conducted Output Power.

2.2 Test Channel Mode

Test Software Version		QA tool v0.0.0.96					
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Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	11b	20	1	1	2412	L	1C
2.4G	11b	20	1	1	2437	M	1C
2.4G	11b	20	1	1	2462	H	1C
2.4G	11g	20	1	1	2412	L	1B
2.4G	11g	20	1	1	2437	M	1C
2.4G	11g	20	1	1	2462	H	1B
2.4G	HT20	20	1	1	2412	L	1B
2.4G	HT20	20	1	1	2437	M	1D
2.4G	HT20	20	1	1	2462	H	1B
2.4G	HT40	40	1	1	2422	L	15
2.4G	HT40	40	1	1	2437	M	1D
2.4G	HT40	40	1	1	2452	H	17

Abbreviation Explanation

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Test Cond.	Abbreviation
2.4G	HT20	20	1,(M0-15)	2	2412	L	TN,VN	2.4G;HT20;20;1,(M0-15);2;2412;L;TN,VN
2.4G	HT40	40	1,(M0-15)	2	2437	M	TN,VN	2.4G;HT40;40;1,(M0-15);2;2437;M;TN,VN

Note:

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch).

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	☒ 1. Adapter Mode: UN318-4804
	☒ 2. Adapter Mode: ZZU1588-040480
	☒ 3. PoE Mode
For operating mode 3 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth, Fundamental Emission Output Power, Power Spectral Density, Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
User Position	☐ EUT will be placed in fixed position.		
	☒ EUT will be placed in mobile position and operating multiple positions. EUT shall be performed three orthogonal planes.		
	☐ EUT will be a hand-held or body-worn battery-powered devices and operating multiple positions. EUT shall be performed three orthogonal planes.		
Operating Mode < 1GHz	☒ 1. Adapter Mode: UN318-4804		
	☒ 2. Adapter Mode: ZZU1588-040480		
	☒ 3. PoE Mode		
For operating mode 1 is the worst case and it was record in this test report.			
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT	V		
Worst Planes of ANT			V

2.4 Accessories and Support Equipment

Accessories				
AC Adapter 1	Brand Name	UNIFIVE	Model Name	UN318-4804
	Power Rating	I/P: 100-240Vac, 0.4 A, O/P: 48 Vdc, 0.4 A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		
AC Adapter 2	Brand Name	JUNCTION GLOBAL	Model Name	ZZU1588-040480
	Power Rating	I/P: 100-240Vac, 1.5 A, O/P: 48 Vdc, 0.4 A		
	Power Cord	1.5 meter, non-shielded cable, w/o ferrite core		

Reminder: Regarding to more detail and other information, please refer to user manual.

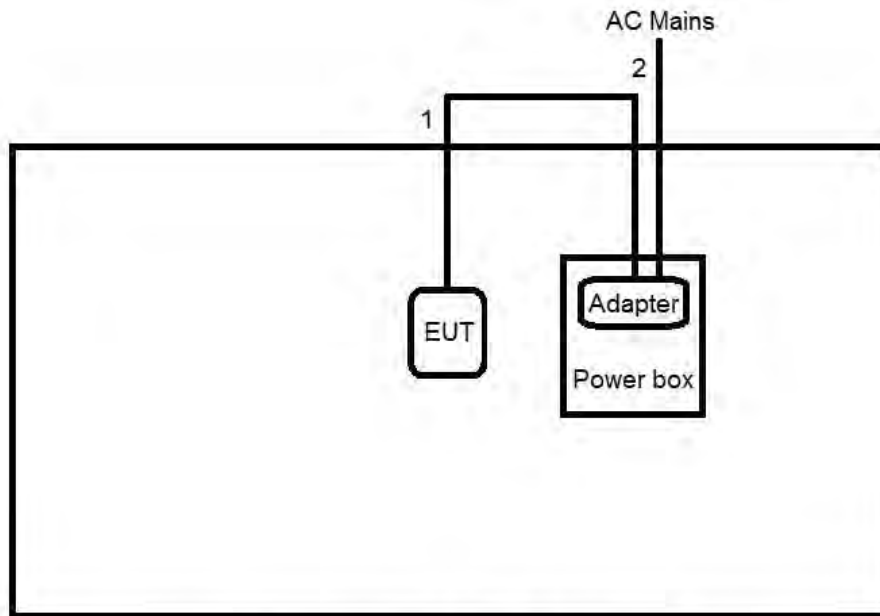
Support Equipment - RF Conducted			
No.	Equipment	Brand Name	Model Name
1	Notebook	DELL	E5530
2	AC Adapter for Notebook	DELL	HA65NM130

Support Equipment - AC Conduction and Radiated Emission			
No.	Equipment	Brand Name	Model Name
1	PoE	D-Link	DWL-P200
2	Adapter for PoE	D-Link	DSA-0421S-50

2.5 Test Setup Diagram

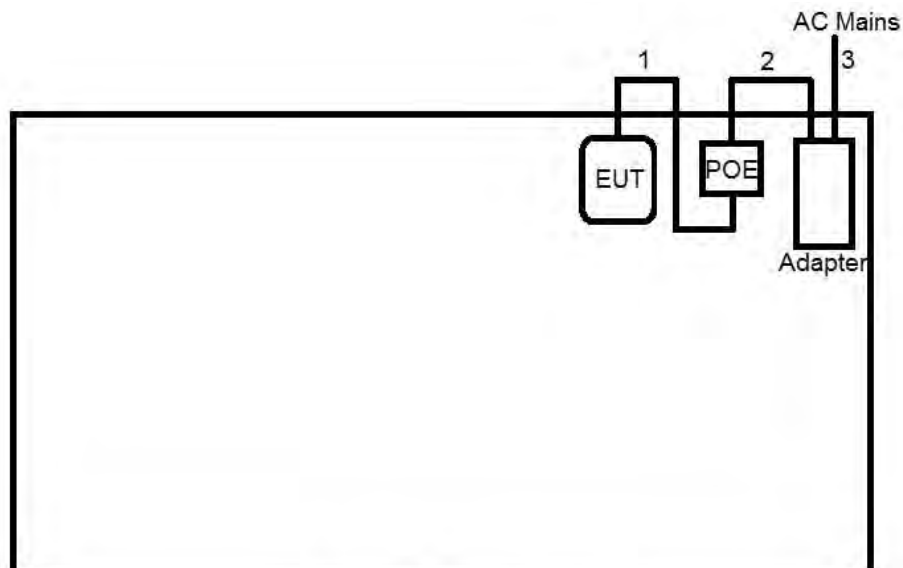
Test Setup Diagram – AC Line Conducted Emission Test

Adapter Mode



1. DC power line, 1.5m, Non-shielding
2. AC power line, 1.8m, Non-shielding

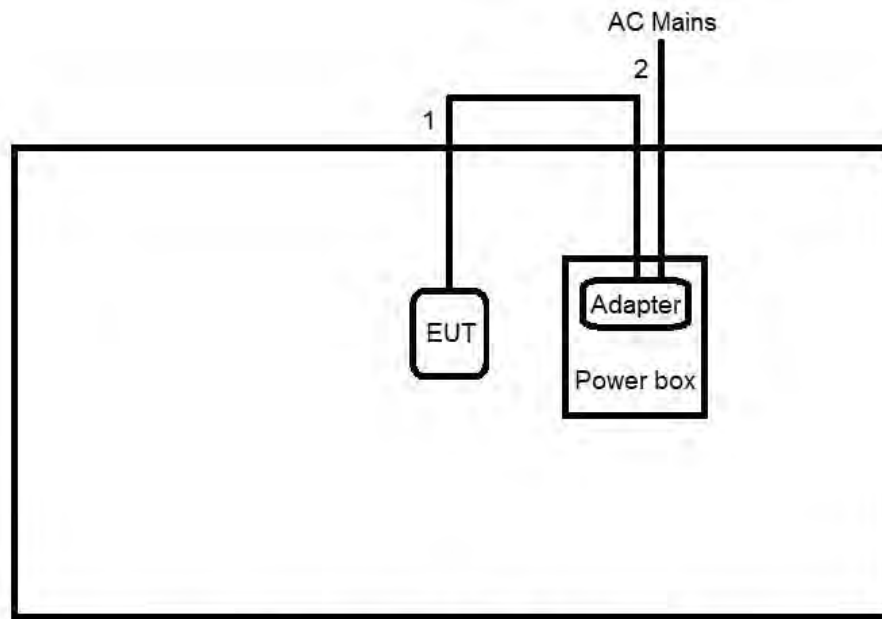
PoE Mode



1. RJ45 cable, 1m, Non-shielding
2. DC power line, 1.8m, Non-shielding
3. AC power line, 1.8m, Non-shielding

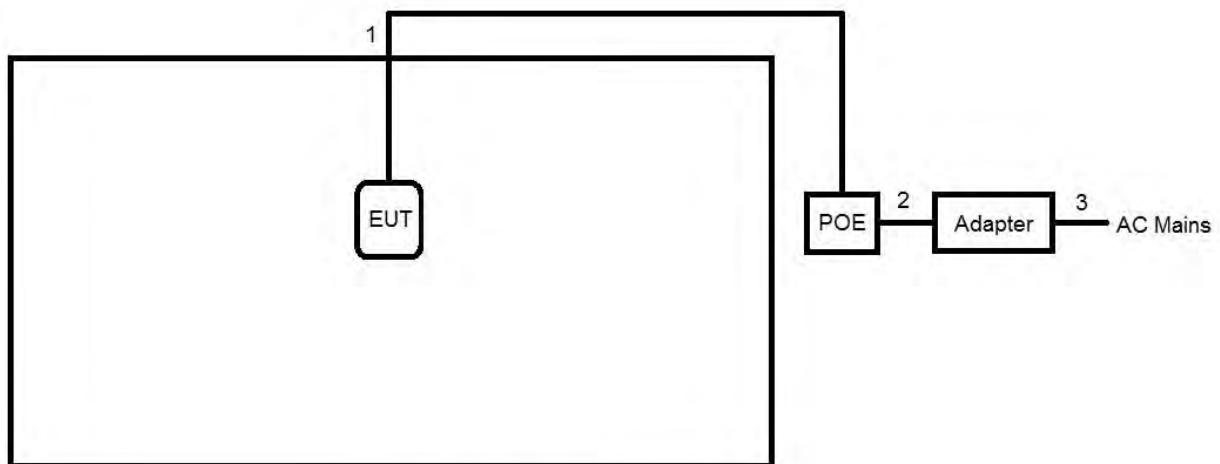
Test Setup Diagram - Radiated Test

Adapter Mode



- 1. DC power line, 1.5m, Non-shielding
- 2. AC power line, 1.8m, Non-shielding

PoE Mode



- 1. RJ45 cable, 10m, Non-shielding
- 2. DC power line, 1.8m, Non-shielding
- 3. AC power line, 1.8m, Non-shielding

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line 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.

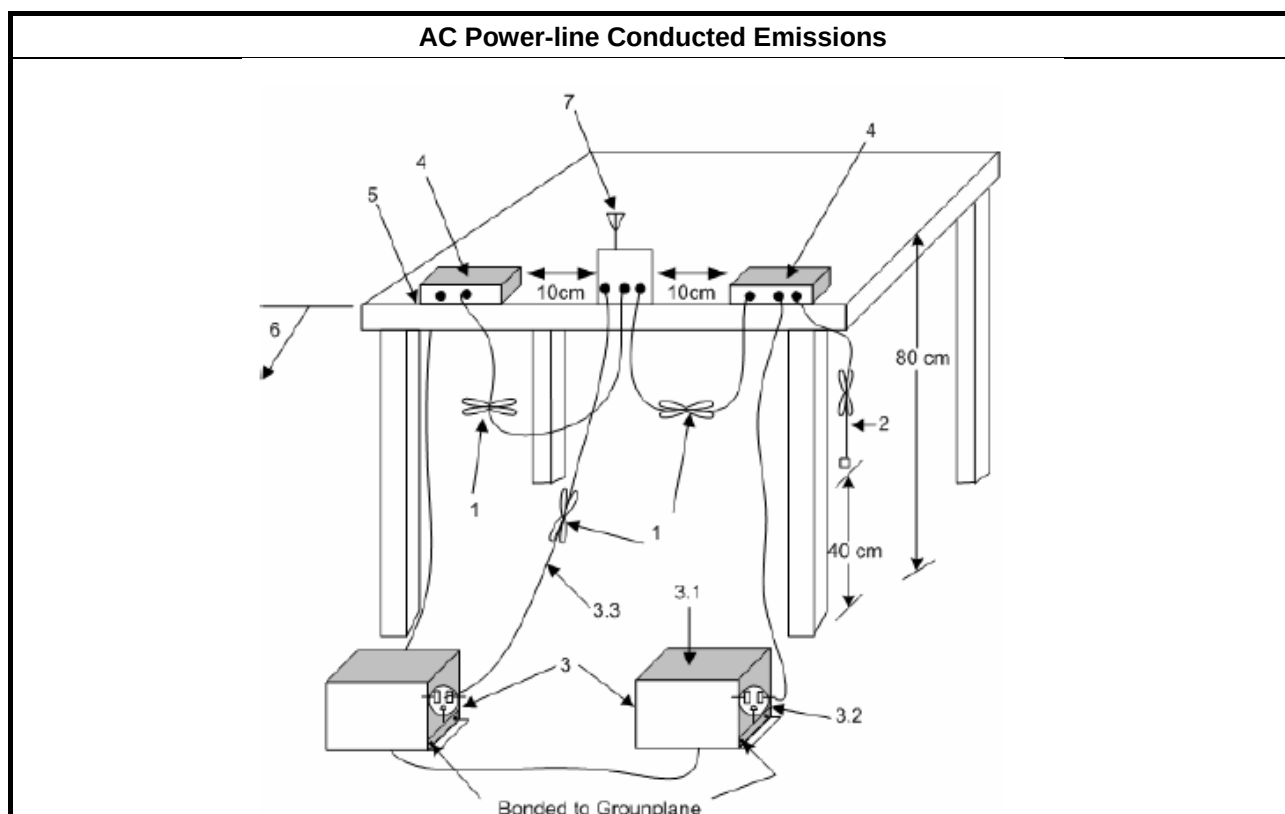
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix I

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

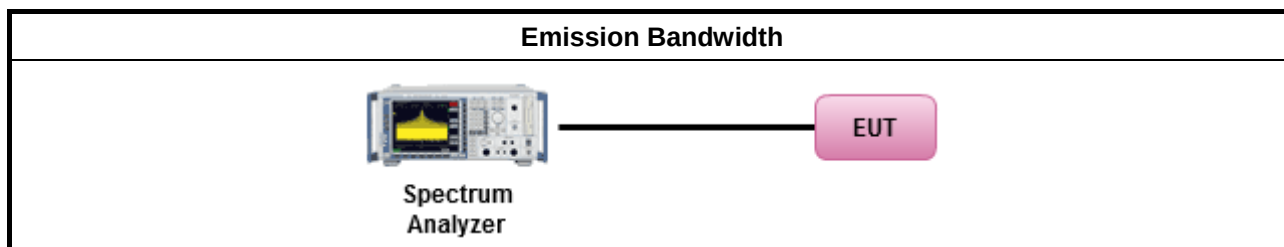
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
☒	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.3 Fundamental Emission Output Power

3.3.1 Fundamental Emission Output Power Limit

Maximum Peak Conducted Output Power or Maximum Conducted Output Power Limit		
▪ 2400-2483.5 MHz Band:		
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)	
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm	
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm	
	▪ Smart antenna system (SAS):	
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm		
e.i.r.p. Power Limit:		
▪ 2400-2483.5 MHz Band		
	▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)	
	▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm	
	▪ Smart antenna system (SAS)	
		- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
		- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
		- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi. P_{eirp} = e.i.r.p. Power in dBm.		

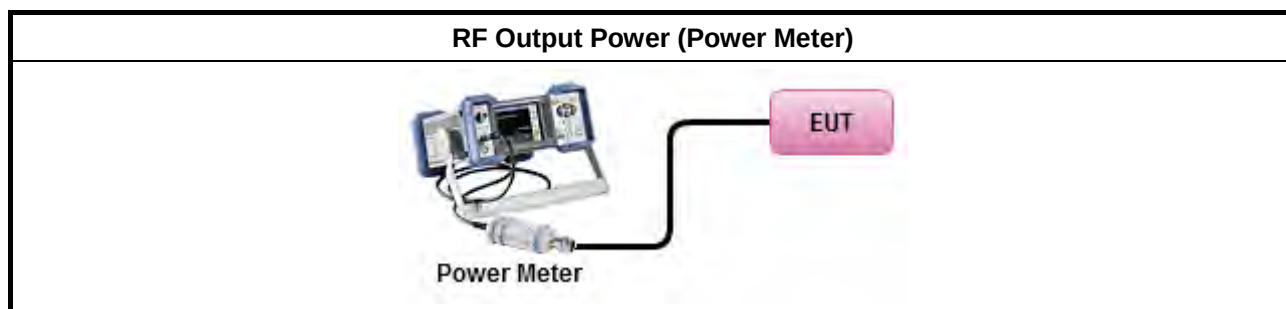
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
☒	Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
☒	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM (using an RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Peak Conducted Output Power

Refer as Appendix B

3.3.6 Test Result of Maximum Average Conducted Output Power

Refer as Appendix B

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit	
▪	Power Spectral Density (PSD) $\leq$ 8 dBm/3kHz

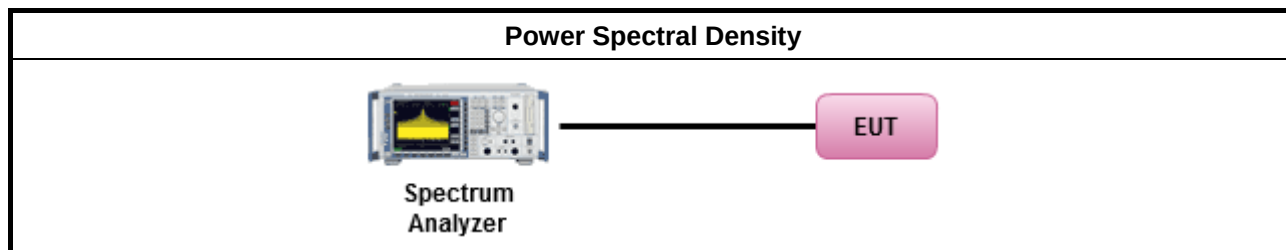
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle $\geq$ 98% or external video / power trigger]
☐	Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed)
	duty cycle < 98% and average over on/off periods with duty factor
☐	Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
☐	Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the N _{TX} output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
☐	Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐	Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup

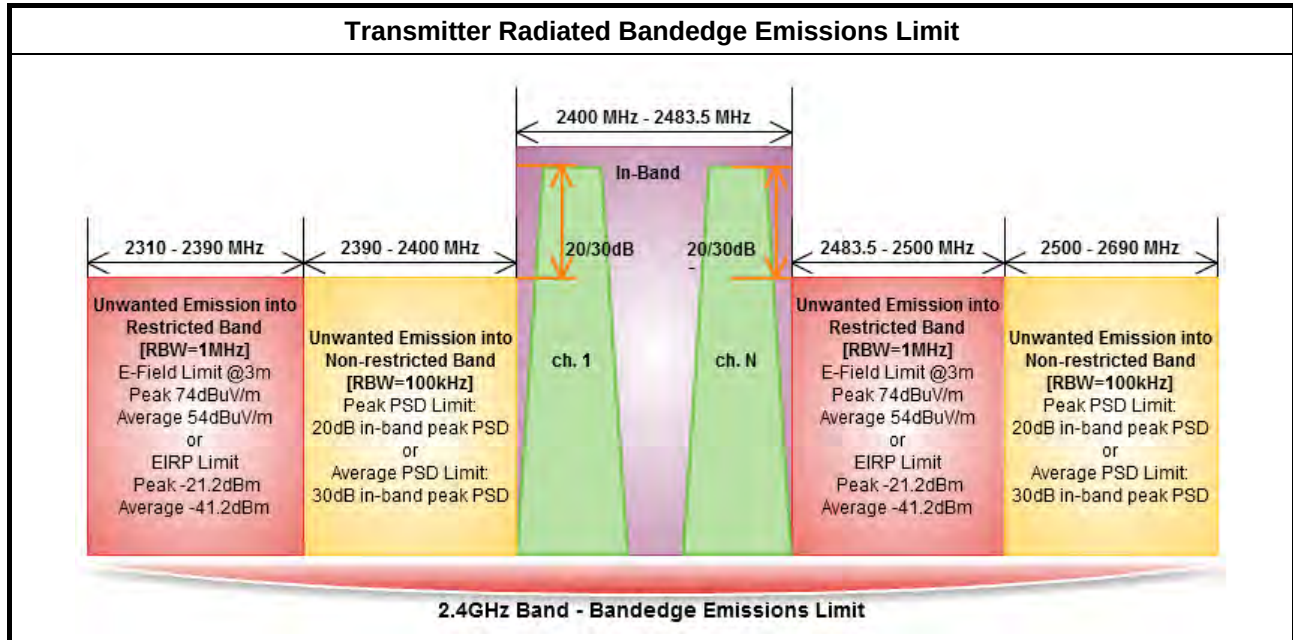


3.4.5 Test Result of Power Spectral Density

Refer as Appendix C

3.5 Transmitter Radiated Bandedge Emissions

3.5.1 Transmitter Radiated Bandedge Emissions Limit



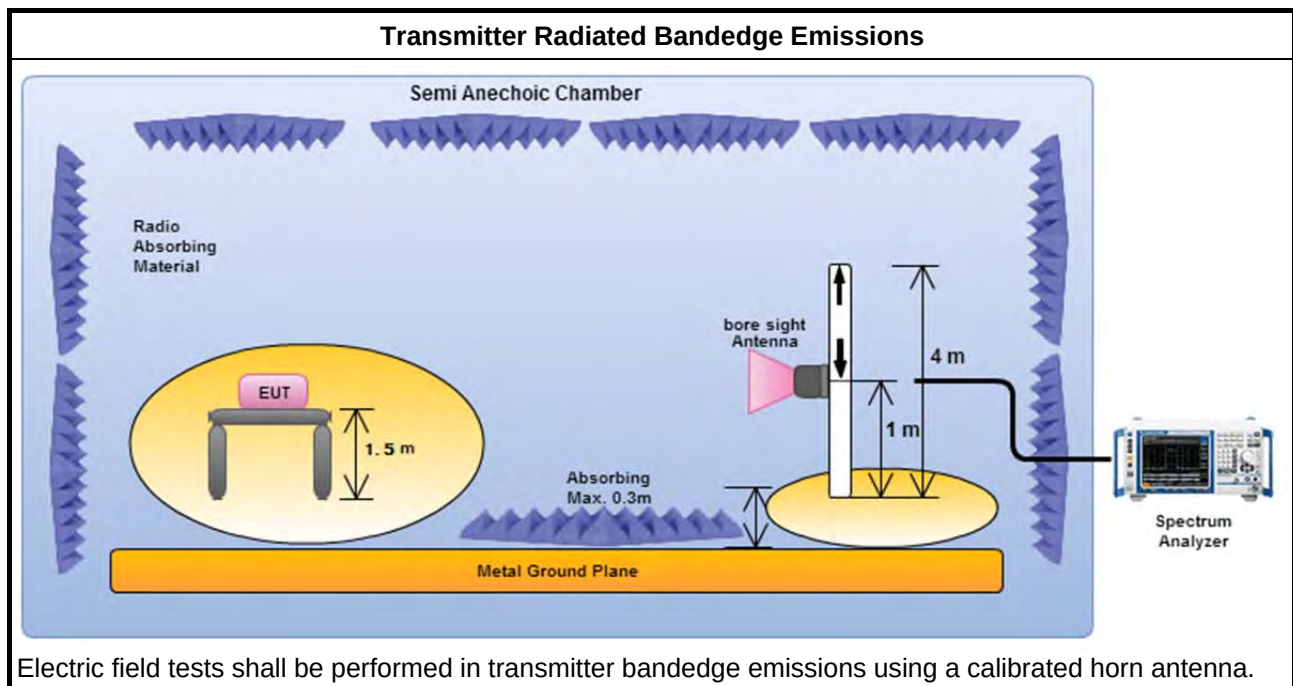
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
☒	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
☒	Refer as ANSI C63.10, clause 6.10 bandedge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
☒	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
☐	Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
☒	Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
☐	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
☒	Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
☒	For the transmitter bandedge emissions shall be measured using following options below:
☐	Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
☒	Refer as ANSI C63.10, clause 6.10 for band-edge testing.
☐	Refer as ANSI C63.10, clause 6.10.6.2 for marker-delta method for band-edge measurements.
☒	For radiated measurement, refer as FCC KDB 558074, clause 12.2.7 and ANSI C63.10, clause 6.6. Test distance is 3m.

3.5.4 Test Setup





3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.6 Transmitter Radiated Unwanted Emissions

3.6.1 Transmitter in Radiated Unwanted Emissions Limit

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: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.6.2 Measuring Instruments

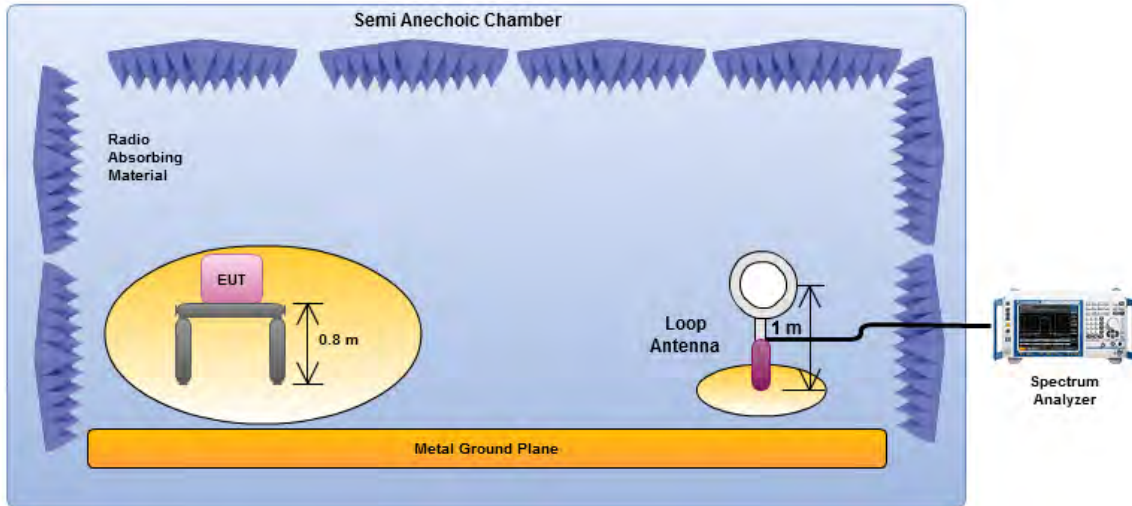
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
☒	Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).
☒	The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
☒	For the transmitter unwanted emissions shall be measured using following options below:
☒	Refer as FCC KDB 558074, clause 11 for unwanted emissions into non-restricted bands.
☒	Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
☐	Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
☐	Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
☒	Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
☐	Refer as ANSI C63.10, clause 4.1.4.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
☐	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions.
☒	Refer as FCC KDB 558074, clause 11.3 and 12.2.4 measurement procedure peak limit.
☒	Refer as FCC KDB 558074, clause 12.2.3 measurement procedure Quasi-Peak limit.
☒	For radiated measurement, refer as FCC KDB 558074, clause 12.2.7.
☒	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
☒	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
☒	The any unwanted emissions level shall not exceed the fundamental emission level.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

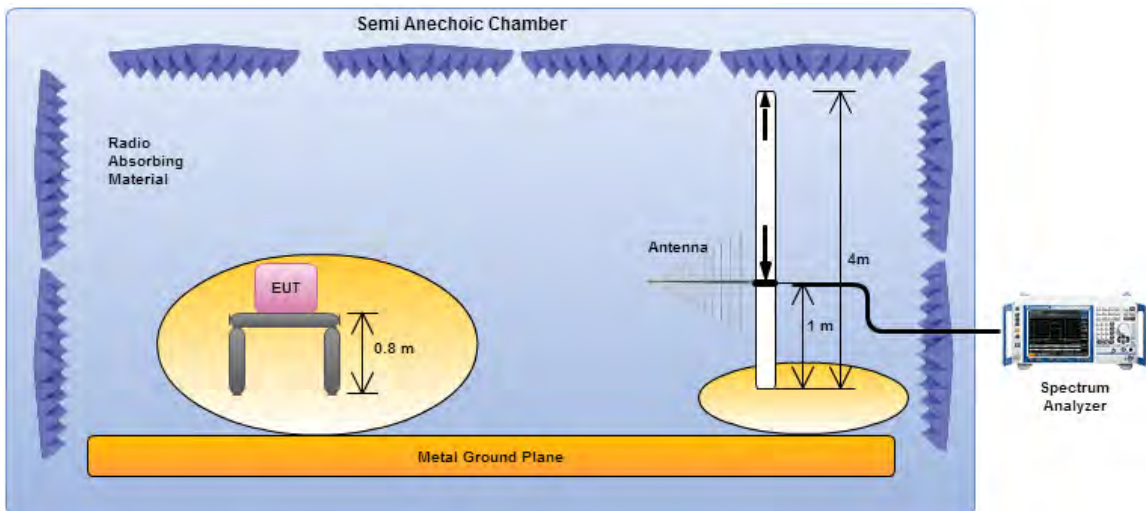
3.6.4 Test Setup

Transmitter Spurious and Out of Band Emissions (9 kHz - 30 MHz)

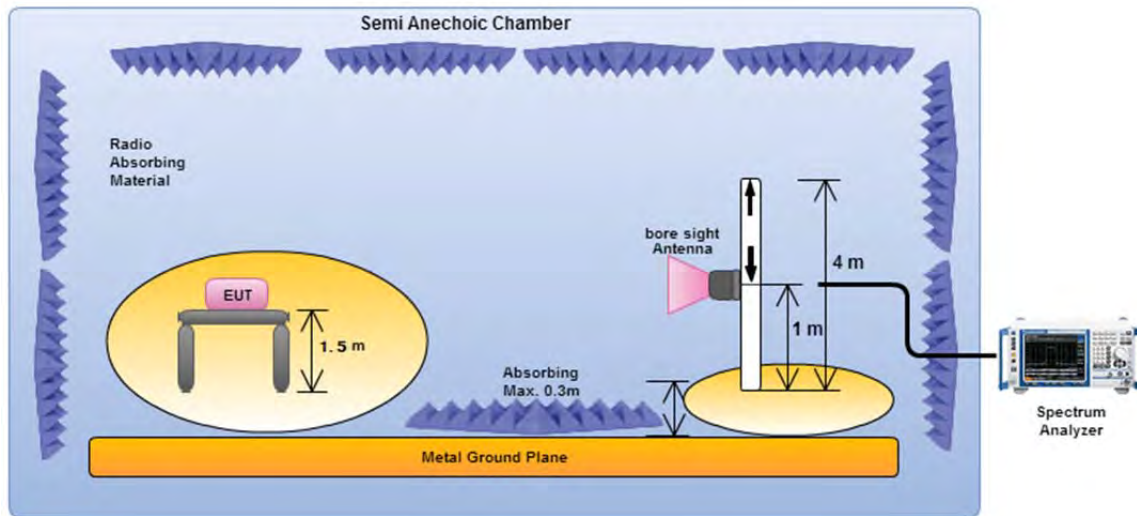


Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna.

Transmitter Radiated Unwanted Emissions (below 1GHz)



Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna.

Transmitter Radiated Unwanted Emissions (above 1GHz)


Electric field tests shall be performed in the frequency range of 1 GHz to 10th harmonic of highest fundamental frequency or 40 GHz using a calibrated horn antenna.

3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. Any spurious which has more than 20 dB of margin compared to the applicable limit is not necessarily reported.

3.6.6 Transmitter Radiated Unwanted Emissions

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
EMC Receiver	KEYSIGHT	N9038A	MY54130031	20 Hz ~ 8.4 GHz	14/04/2016	13/04/2017
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9 kHz ~ 30 MHz	26/01/2016	25/01/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9 kHz ~ 30 MHz	30/10/2015	29/10/2016
EMI Filter	LINDGREN	LRE-2030	2651	< 450 Hz	NCR	NCR

Instrument for Conducted Test

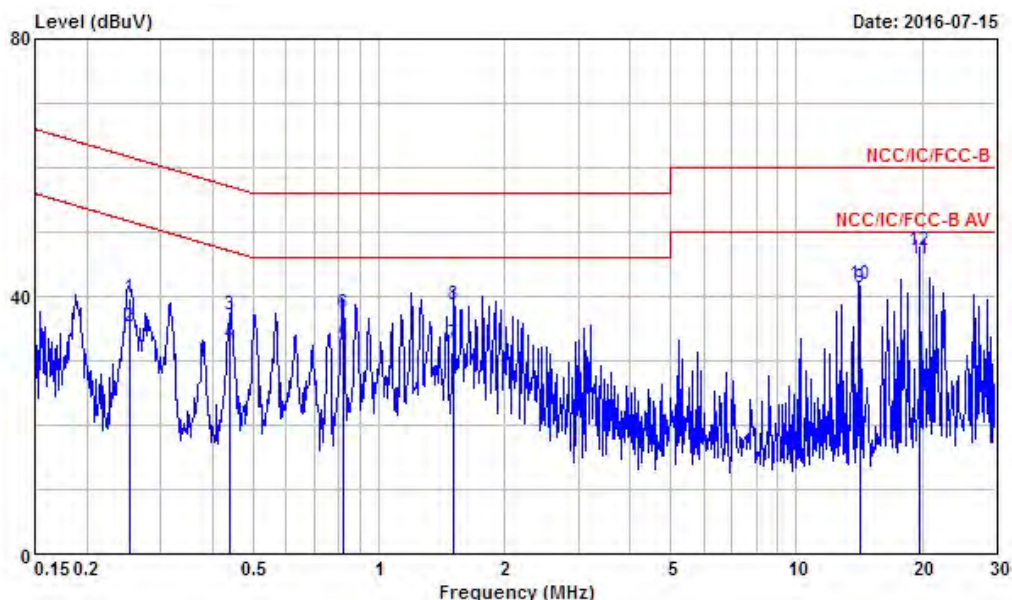
Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSP 40	100305	9 KHz~40 GHz	16/02/2016	15/02/2017
AC Power Source	G.W	APS-9102	EL920581	AC 0V ~ 300V	04/06/2016	03/06/2017
Signal Generator	R&S	SMR40	100116	10 MHz ~ 40 GHz	28/07/2015	27/07/2016
Power Sensor	Anritsu	MA2411B	0917017	300 MHz ~ 40 GHz	04/02/2016	03/02/2017
Power Meter	Anritsu	ML2495A	0949003	300 MHz ~ 40 GHz	04/02/2016	03/02/2017

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Last Cal.	Calibration Due Date
Spectrum Analyzer	R&S	FSP 40	100593	9 KHz~40 GHz	19/10/2015	18/10/2016
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30 MHz ~ 1 GHz 3m	03/06/2016	02/06/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1 GHz ~ 18 GHz 3m	03/06/2016	02/06/2017
Amplifier	Agilent	8447D	2944A11149	100 kHz ~ 1.3 GHz	01/07/2016	30/06/2017
Amplifier	Agilent	8449B	3008A02602	1 GHz ~ 26.5 GHz	04/11/2015	03/11/2016
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1 GHz ~ 18 GHz	22/04/2016	21/04/2017
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18 GHz ~ 40 GHz	29/01/2016	28/01/2017
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30 MHz ~ 1 GHz	05/10/2015	04/10/2016
Loop Antenna	TESEQ	HLA 6120	31244	9 kHz~30 MHz	02/02/2015	01/02/2017

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Neutral
Operating Function	PoE Mode		



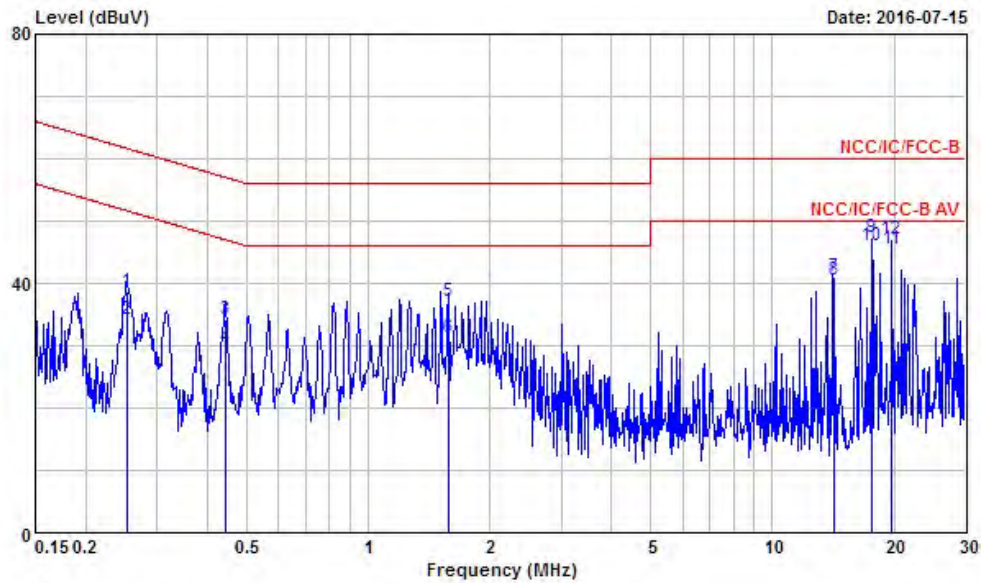
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.2537790	39.75	-21.88	61.63	39.41	0.11	0.23	QP
2	0.2537790	35.35	-16.28	51.63	35.01	0.11	0.23	Average
3	0.4410810	37.12	-19.92	57.04	36.90	0.12	0.10	QP
4	0.4410810	32.58	-14.46	47.04	32.36	0.12	0.10	Average
5	0.8203740	32.48	-13.52	46.00	32.25	0.13	0.10	Average
6	0.8203740	37.32	-18.68	56.00	37.09	0.13	0.10	QP
7	1.513	32.76	-13.24	46.00	32.40	0.14	0.22	Average
8	1.513	38.69	-17.31	56.00	38.33	0.14	0.22	QP
9	14.213	41.29	-8.71	50.00	40.76	0.33	0.20	Average
10	14.213	41.97	-18.03	60.00	41.44	0.33	0.20	QP
11	19.708	45.82	-4.18	50.00	45.24	0.38	0.20	Average
12	19.708	47.16	-12.84	60.00	46.58	0.38	0.20	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

AC Power-line Conducted Emissions Result

Operating Mode	3	Power Phase	Line
Operating Function	PoE Mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.2531110	38.56	-23.09	61.65	38.22	0.11	0.23	QP
2	0.2531110	34.09	-17.56	51.65	33.75	0.11	0.23	Average
3	0.4430810	34.31	-22.69	57.00	34.09	0.12	0.10	QP
4	0.4430810	29.85	-17.15	47.00	29.63	0.12	0.10	Average
5	1.575	36.99	-19.01	56.00	36.62	0.14	0.23	QP
6	1.575	31.38	-14.62	46.00	31.01	0.14	0.23	Average
7	14.153	41.17	-18.83	60.00	40.67	0.30	0.20	QP
8	14.153	40.51	-9.49	50.00	40.01	0.30	0.20	Average
9	17.694	47.36	-12.64	60.00	46.83	0.33	0.20	QP
10	17.694	46.07	-3.93	50.00	45.54	0.33	0.20	Average
11	19.709	45.48	-4.52	50.00	44.93	0.35	0.20	Average
12	19.709	47.05	-12.95	60.00	46.50	0.35	0.20	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



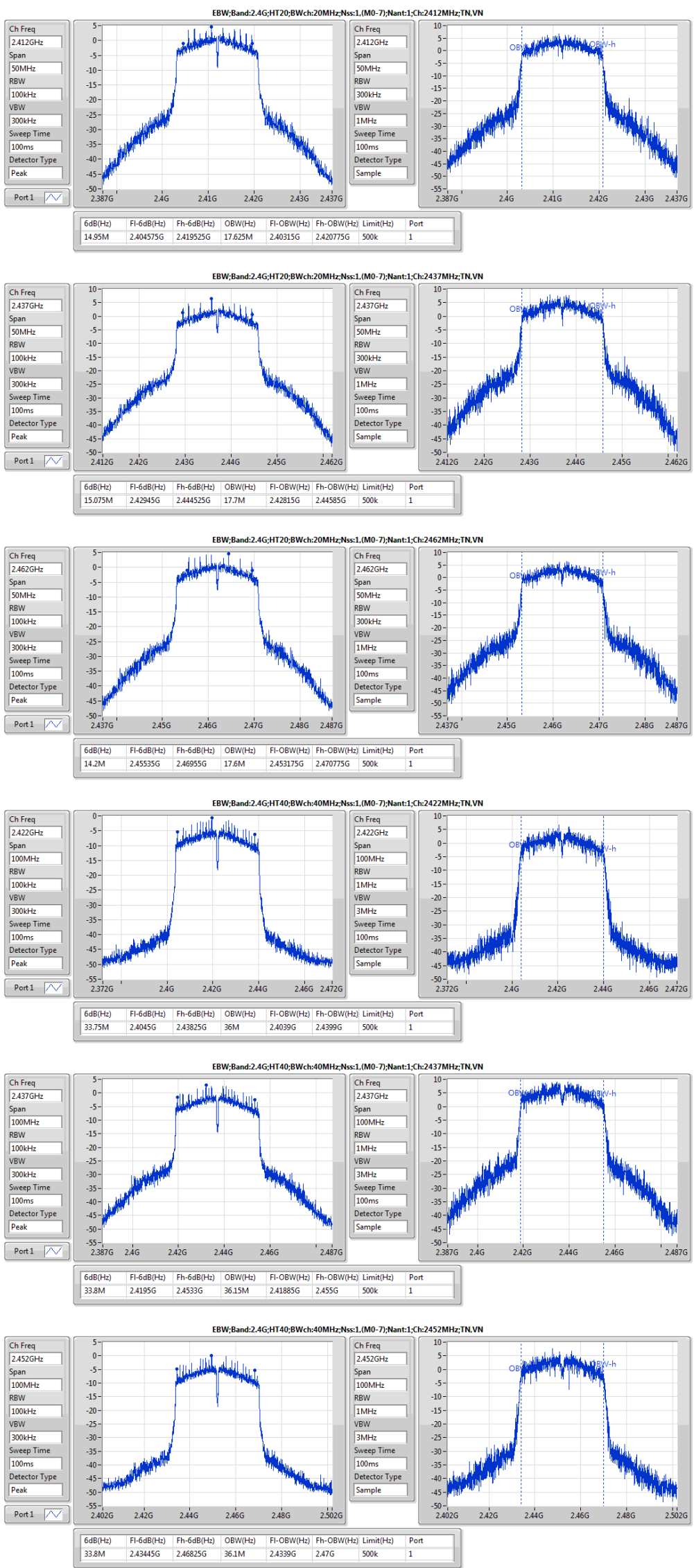
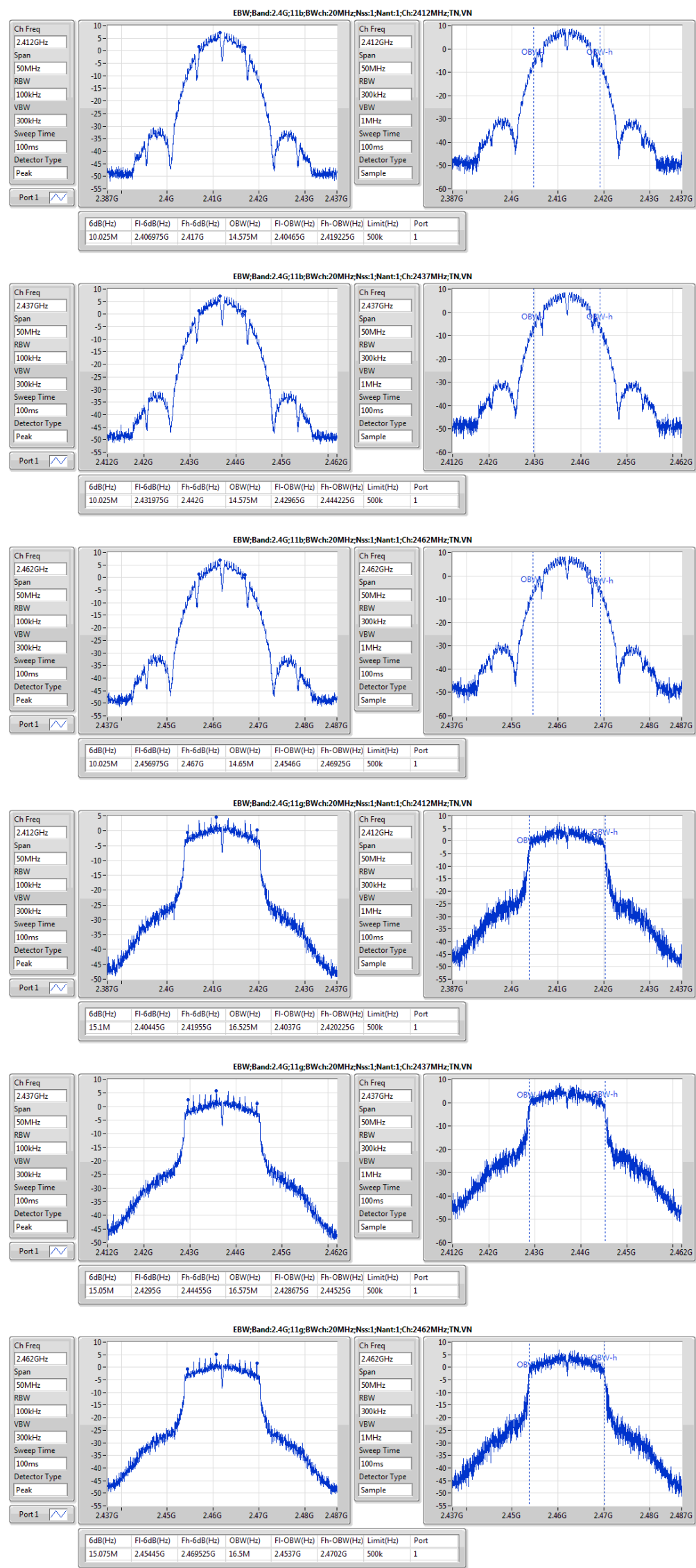
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;11b;20;1;1	10.025M	14.65M	14M6G1D	10.025M	14.575M
2.4G;11g;20;1;1	15.1M	16.575M	16M6D1D	15.05M	16.5M
2.4G;HT20;20;1,(M0-7);1	15.075M	17.7M	17M7D1D	14.2M	17.6M
2.4G;HT40;40;1,(M0-7);1	33.8M	36.15M	36M1D1D	33.75M	36M



Result

Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)
2.4G;11b;20;1;1;2412;L;TN,VN	Pass	500k	10.025M	14.575M
2.4G;11b;20;1;1;2437;M;TN,VN	Pass	500k	10.025M	14.575M
2.4G;11b;20;1;1;2462;H;TN,VN	Pass	500k	10.025M	14.65M
2.4G;11g;20;1;1;2412;L;TN,VN	Pass	500k	15.1M	16.525M
2.4G;11g;20;1;1;2437;M;TN,VN	Pass	500k	15.05M	16.575M
2.4G;11g;20;1;1;2462;H;TN,VN	Pass	500k	15.075M	16.5M
2.4G;HT20;20;1,(M0-7);1;2412;L;TN,VN	Pass	500k	14.95M	17.625M
2.4G;HT20;20;1,(M0-7);1;2437;M;TN,VN	Pass	500k	15.075M	17.7M
2.4G;HT20;20;1,(M0-7);1;2462;H;TN,VN	Pass	500k	14.2M	17.6M
2.4G;HT40;40;1,(M0-7);1;2422;L;TN,VN	Pass	500k	33.75M	36M
2.4G;HT40;40;1,(M0-7);1;2437;M;TN,VN	Pass	500k	33.8M	36.15M
2.4G;HT40;40;1,(M0-7);1;2452;H;TN,VN	Pass	500k	33.8M	36.1M





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;11b;20;1;1	19.13	0.08185	22.13	0.16331
2.4G;11g;20;1;1	22.85	0.19275	25.85	0.38459
2.4G;HT20;20;1,(M0-7);1	23.02	0.20045	26.02	0.39994
2.4G;HT40;40;1,(M0-7);1	22.40	0.17378	25.40	0.34674

Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)
2.4G;11b;20;1;1;2412;L;TN,VN	Pass	3.00	22.13	36.00	19.13	30.00	19.13
2.4G;11b;20;1;1;2437;M;TN,VN	Pass	3.00	22.04	36.00	19.04	30.00	19.04
2.4G;11b;20;1;1;2462;H;TN,VN	Pass	3.00	21.96	36.00	18.96	30.00	18.96
2.4G;11g;20;1;1;2412;L;TN,VN	Pass	3.00	25.65	36.00	22.65	30.00	22.65
2.4G;11g;20;1;1;2437;M;TN,VN	Pass	3.00	25.85	36.00	22.85	30.00	22.85
2.4G;11g;20;1;1;2462;H;TN,VN	Pass	3.00	25.63	36.00	22.63	30.00	22.63
2.4G;HT20;20;1,(M0-7);1;2412;L;TN,VN	Pass	3.00	25.76	36.00	22.76	30.00	22.76
2.4G;HT20;20;1,(M0-7);1;2437;M;TN,VN	Pass	3.00	26.02	36.00	23.02	30.00	23.02
2.4G;HT20;20;1,(M0-7);1;2462;H;TN,VN	Pass	3.00	25.66	36.00	22.66	30.00	22.66
2.4G;HT40;40;1,(M0-7);1;2422;L;TN,VN	Pass	3.00	23.50	36.00	20.50	30.00	20.50
2.4G;HT40;40;1,(M0-7);1;2437;M;TN,VN	Pass	3.00	25.40	36.00	22.40	30.00	22.40
2.4G;HT40;40;1,(M0-7);1;2452;H;TN,VN	Pass	3.00	23.67	36.00	20.67	30.00	20.67



Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G;11b;20;1;1	17.28	0.05346	20.28	0.10666
2.4G;11g;20;1;1	16.03	0.04009	19.03	0.07998
2.4G;HT20;20;1,(M0-7);1	16.29	0.04256	19.29	0.08492
2.4G;HT40;40;1,(M0-7);1	15.48	0.03532	18.48	0.07047

Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)
2.4G;11b;20;1;1;2412;L;TN,VN	Pass	3.00	20.28	36.00	17.28	30.00	17.28
2.4G;11b;20;1;1;2437;M;TN,VN	Pass	3.00	20.19	36.00	17.19	30.00	17.19
2.4G;11b;20;1;1;2462;H;TN,VN	Pass	3.00	20.09	36.00	17.09	30.00	17.09
2.4G;11g;20;1;1;2412;L;TN,VN	Pass	3.00	18.52	36.00	15.52	30.00	15.52
2.4G;11g;20;1;1;2437;M;TN,VN	Pass	3.00	19.03	36.00	16.03	30.00	16.03
2.4G;11g;20;1;1;2462;H;TN,VN	Pass	3.00	18.52	36.00	15.52	30.00	15.52
2.4G;HT20;20;1,(M0-7);1;2412;L;TN,VN	Pass	3.00	18.51	36.00	15.51	30.00	15.51
2.4G;HT20;20;1,(M0-7);1;2437;M;TN,VN	Pass	3.00	19.29	36.00	16.29	30.00	16.29
2.4G;HT20;20;1,(M0-7);1;2462;H;TN,VN	Pass	3.00	18.56	36.00	15.56	30.00	15.56
2.4G;HT40;40;1,(M0-7);1;2422;L;TN,VN	Pass	3.00	14.69	36.00	11.69	30.00	11.69
2.4G;HT40;40;1,(M0-7);1;2437;M;TN,VN	Pass	3.00	18.48	36.00	15.48	30.00	15.48
2.4G;HT40;40;1,(M0-7);1;2452;H;TN,VN	Pass	3.00	15.51	36.00	12.51	30.00	12.51



Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
2.4G;11b;20;1;1	-7.49	-4.49
2.4G;11g;20;1;1	-11.32	-8.32
2.4G;HT20;20;1,(M0-7);1	-10.52	-7.52
2.4G;HT40;40;1,(M0-7);1	-13.45	-10.45



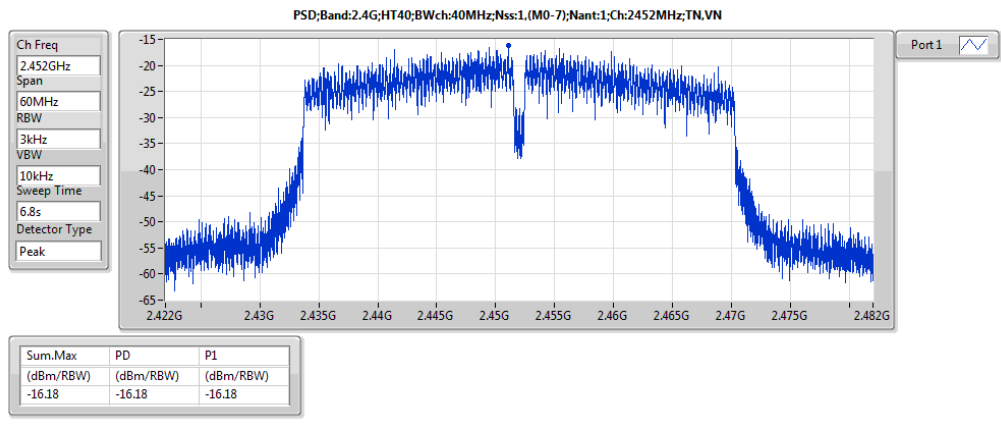
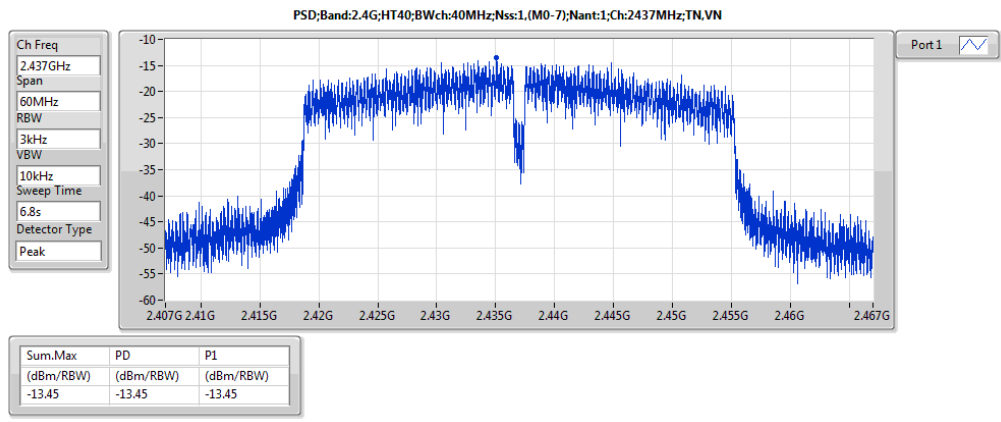
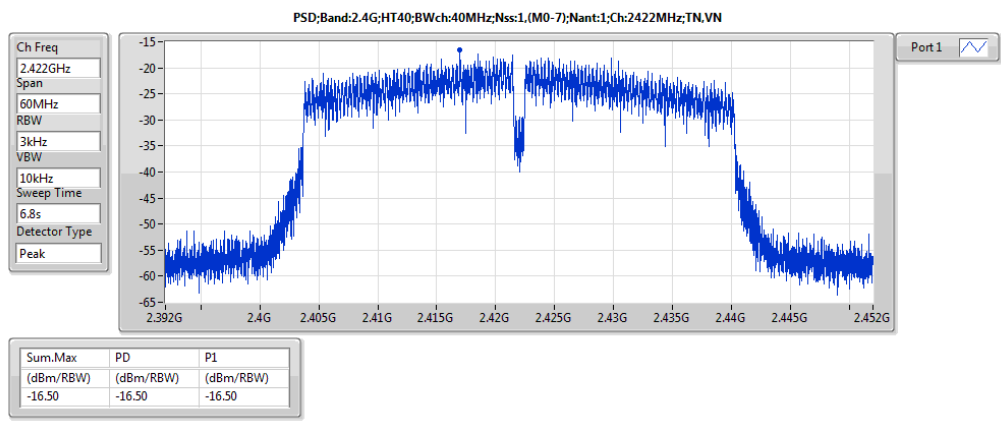
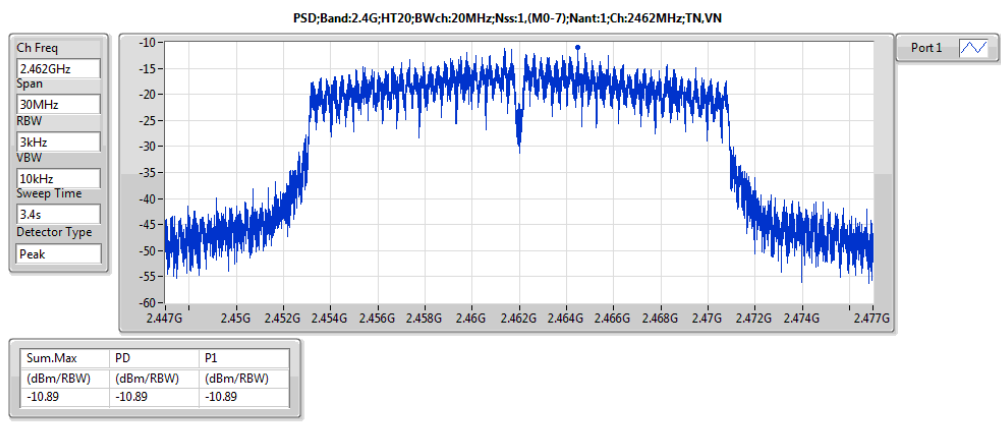
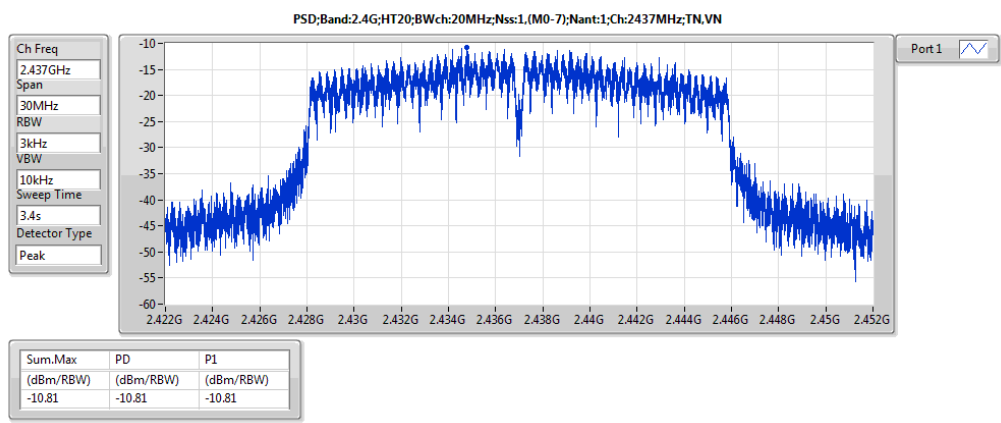
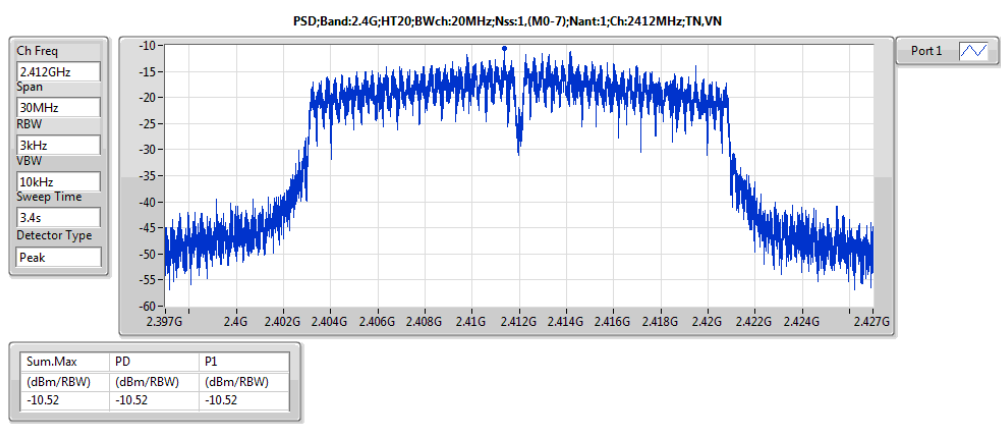
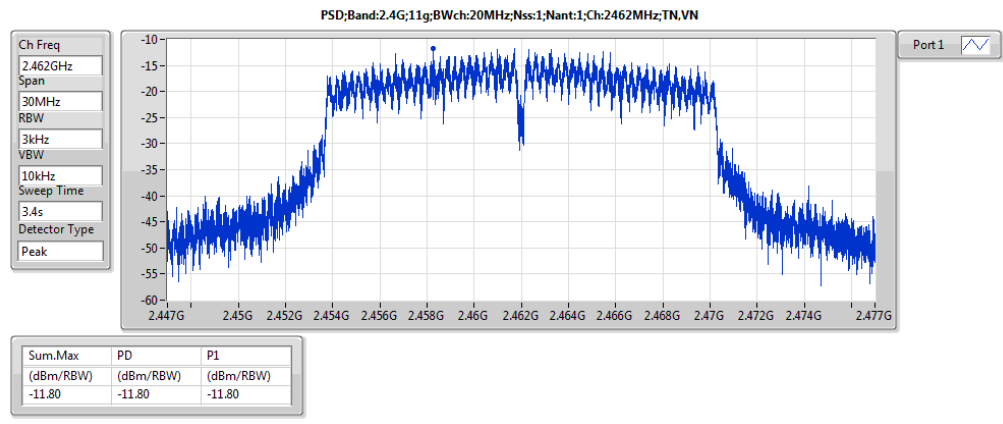
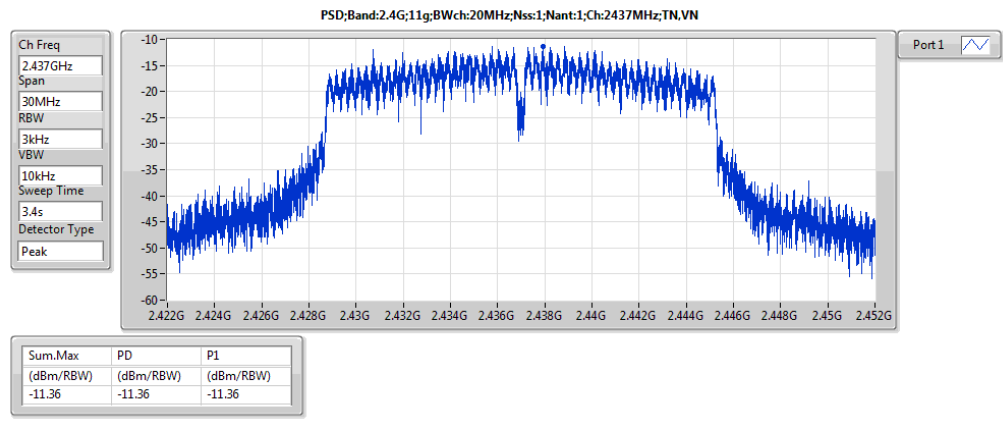
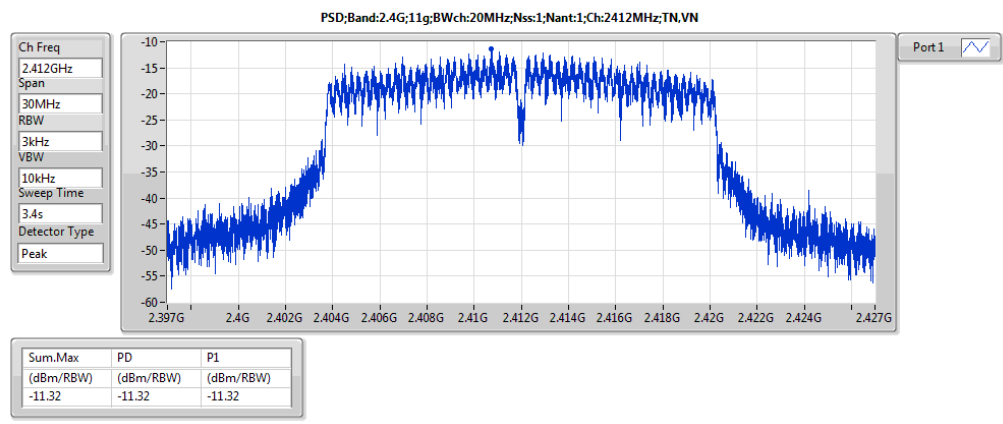
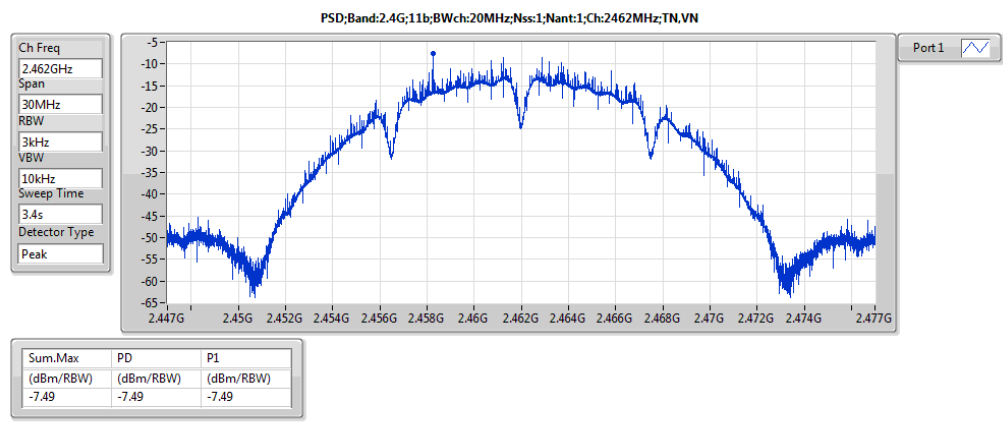
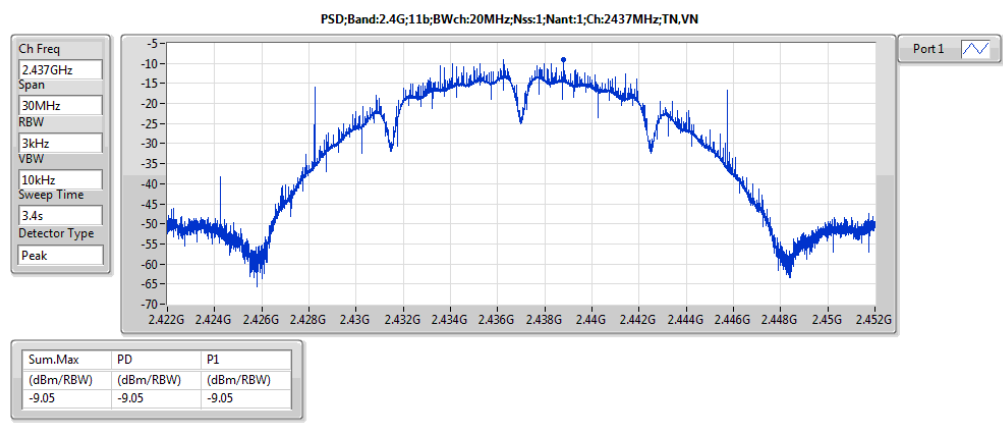
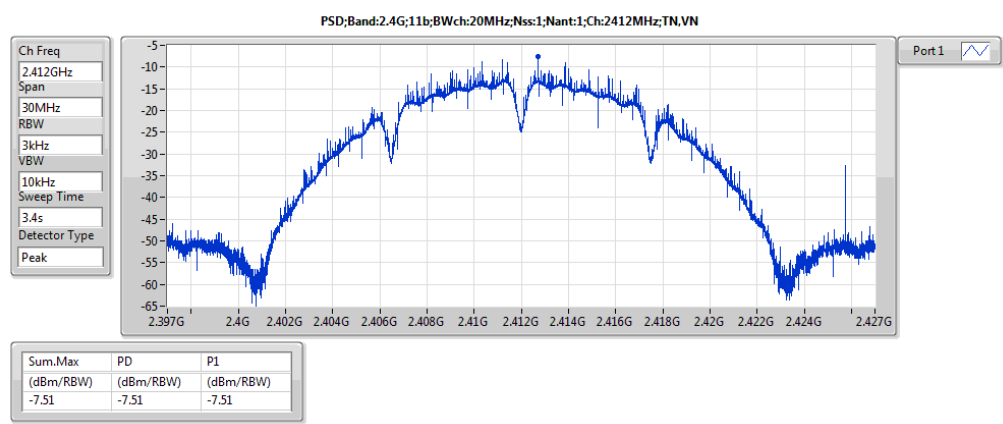
Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)
2.4G;11b;20;1;1;2412;L;TN,VN	Pass	3k	3k	0.00	3.00	-7.51	-7.51	8.00	-4.51	Inf	-7.51
2.4G;11b;20;1;1;2437;M;TN,VN	Pass	3k	3k	0.00	3.00	-9.05	-9.05	8.00	-6.05	Inf	-9.05
2.4G;11b;20;1;1;2462;H;TN,VN	Pass	3k	3k	0.00	3.00	-7.49	-7.49	8.00	-4.49	Inf	-7.49
2.4G;11g;20;1;1;2412;L;TN,VN	Pass	3k	3k	0.00	3.00	-11.32	-11.32	8.00	-8.32	Inf	-11.32
2.4G;11g;20;1;1;2437;M;TN,VN	Pass	3k	3k	0.00	3.00	-11.36	-11.36	8.00	-8.36	Inf	-11.36
2.4G;11g;20;1;1;2462;H;TN,VN	Pass	3k	3k	0.00	3.00	-11.80	-11.80	8.00	-8.80	Inf	-11.80
2.4G;HT20;20;1;(M0-7);1;2412;L;TN,VN	Pass	3k	3k	0.00	3.00	-10.52	-10.52	8.00	-7.52	Inf	-10.52
2.4G;HT20;20;1;(M0-7);1;2437;M;TN,VN	Pass	3k	3k	0.00	3.00	-10.81	-10.81	8.00	-7.81	Inf	-10.81
2.4G;HT20;20;1;(M0-7);1;2462;H;TN,VN	Pass	3k	3k	0.00	3.00	-10.89	-10.89	8.00	-7.89	Inf	-10.89
2.4G;HT40;40;1;(M0-7);1;2422;L;TN,VN	Pass	3k	3k	0.00	3.00	-16.50	-16.50	8.00	-13.50	Inf	-16.50
2.4G;HT40;40;1;(M0-7);1;2437;M;TN,VN	Pass	3k	3k	0.00	3.00	-13.45	-13.45	8.00	-10.45	Inf	-13.45
2.4G;HT40;40;1;(M0-7);1;2452;H;TN,VN	Pass	3k	3k	0.00	3.00	-16.18	-16.18	8.00	-13.18	Inf	-16.18



PSD Result

Appendix C



2400-2483.5MHz Transmitter Radiated Bandedge Emissions (Non-restricted Band)

Modulation	N _{TX}	Test Freq. (MHz)	In-band PSD [i] (dBuV/100kHz)	Freq. (MHz)	Out-band PSD [o] (dBuV/100kHz)	[i] – [o] (dB)	Limit (dB)	Pol.
11b	1	2412	106.48	2397.136	77.42	29.06	20	V
11b	1	2462	106.14	2509.600	59.04	47.10	20	V
11g	1	2412	103.38	2399.824	74.86	28.52	20	V
11g	1	2462	102.52	2510.200	59.00	43.52	20	V
HT20	1	2412	102.84	2399.824	73.18	29.66	20	V
HT20	1	2462	102.41	2551.400	60.07	42.34	20	V
HT40	1	2422	96.86	2397.912	64.19	32.67	20	V
HT40	1	2452	97.09	2505.440	59.17	37.92	20	V

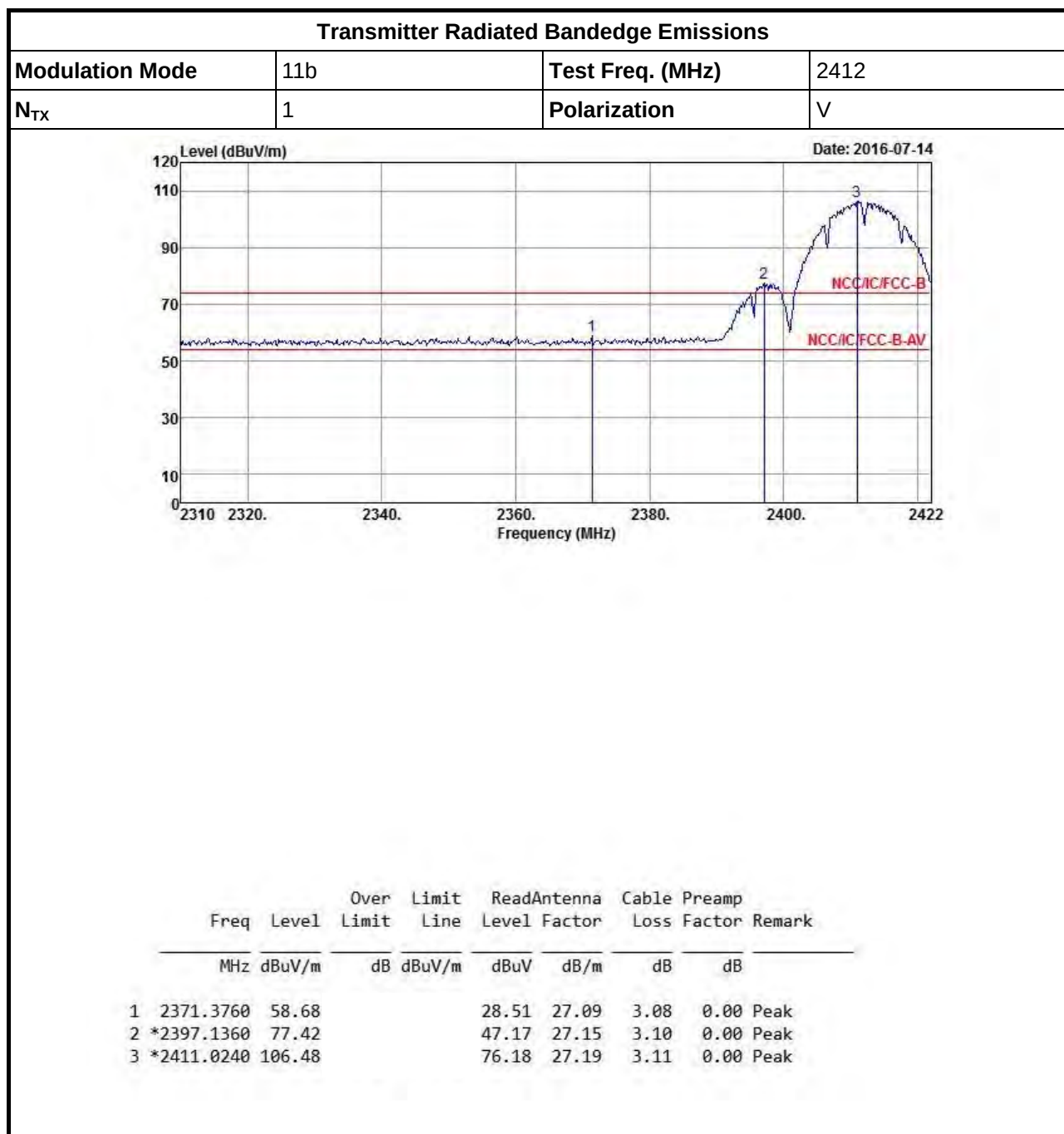
Note 1: Measurement worst emissions of receive antenna polarization

2400-2483.5MHz Transmitter Radiated Bandedge Emissions (Restricted Band)

Modulation Mode	N _{TX}	Freq. (MHz)	Measure Distance (m)	Freq. (MHz) PK	Level (dBuV/m) PK	Limit (dBuV/m) PK	Freq. (MHz) AV	Level (dBuV/m) AV	Limit (dBuV/m) AV	Pol.
11b	1	2412	3	2387.280	59.58	74	2387.280	50.31	54	V
11b	1	2462	3	2486.600	58.82	74	2486.200	49.87	54	V
11g	1	2412	3	2389.520	69.74	74	2389.968	52.15	54	V
11g	1	2462	3	2484.200	69.37	74	2483.500	52.51	54	V
HT20	1	2412	3	2389.968	69.67	74	2389.968	52.15	54	V
HT20	1	2462	3	2483.500	69.88	74	2483.500	52.93	54	V
HT40	1	2422	3	2389.992	71.59	74	2389.992	52.73	54	V
HT40	1	2452	3	2484.560	70.79	74	2483.600	52.73	54	V

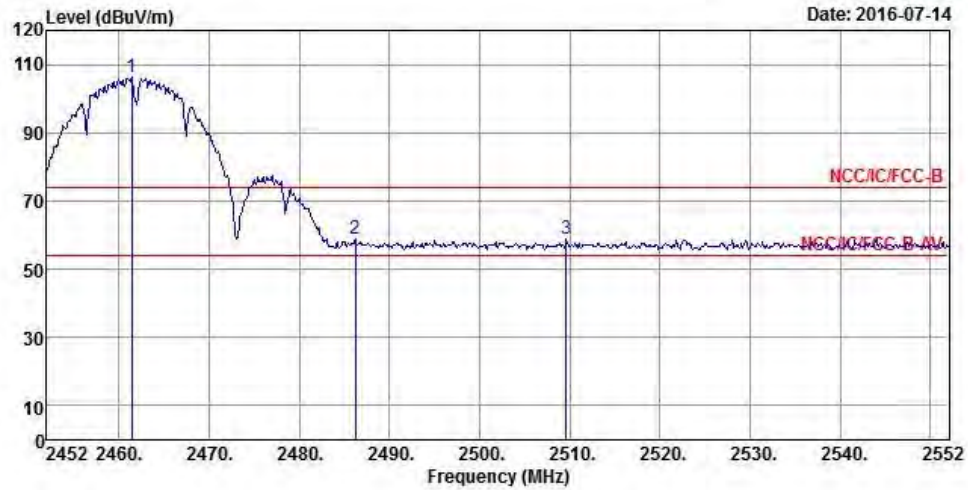
Note 1: Measurement worst emissions of receive antenna polarization.

1.1.1 Transmitter Radiated Bandedge Emissions (Non-restricted Band)

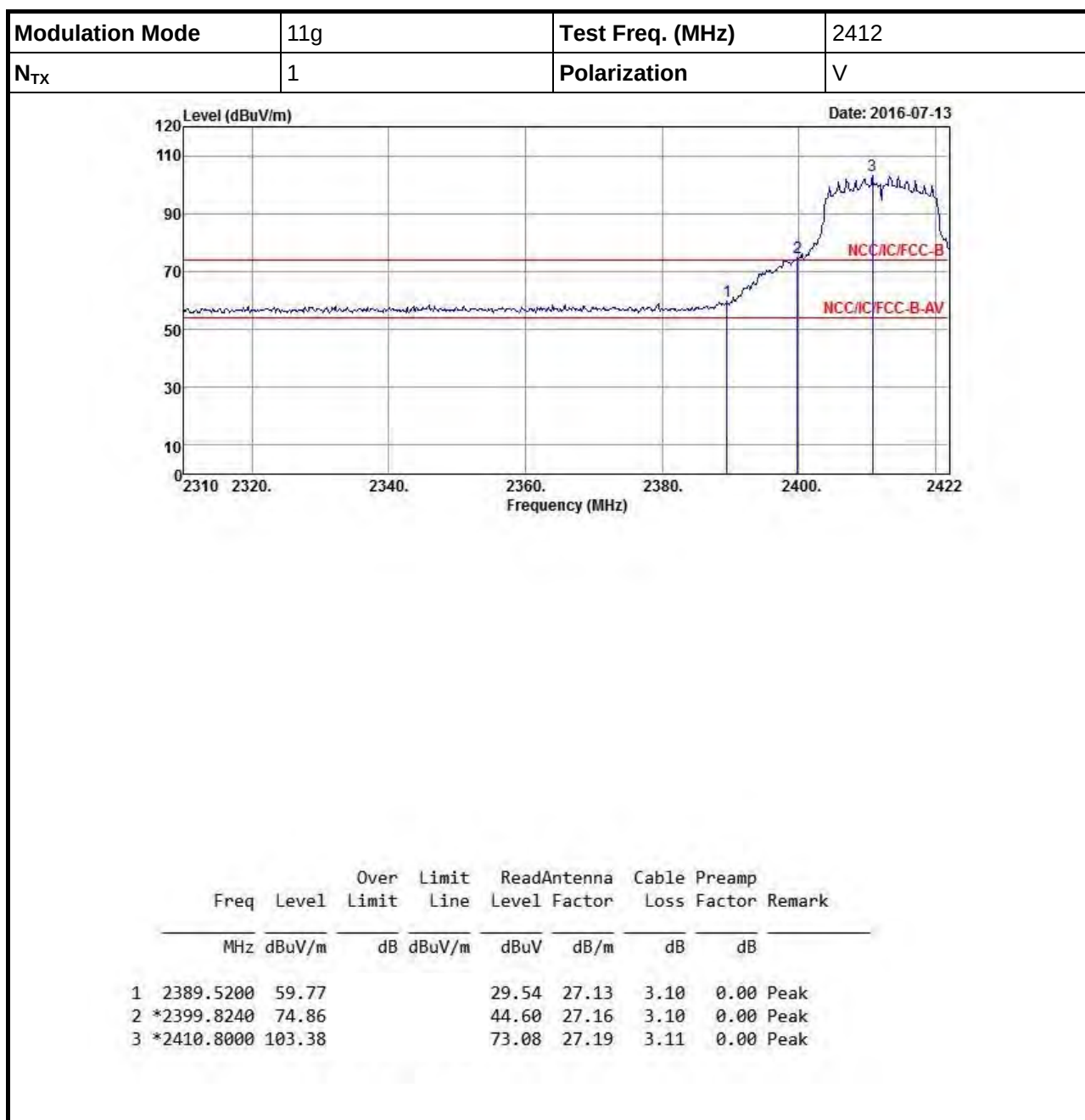


Transmitter Radiated Bandedge Emissions

Modulation Mode	11b	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V

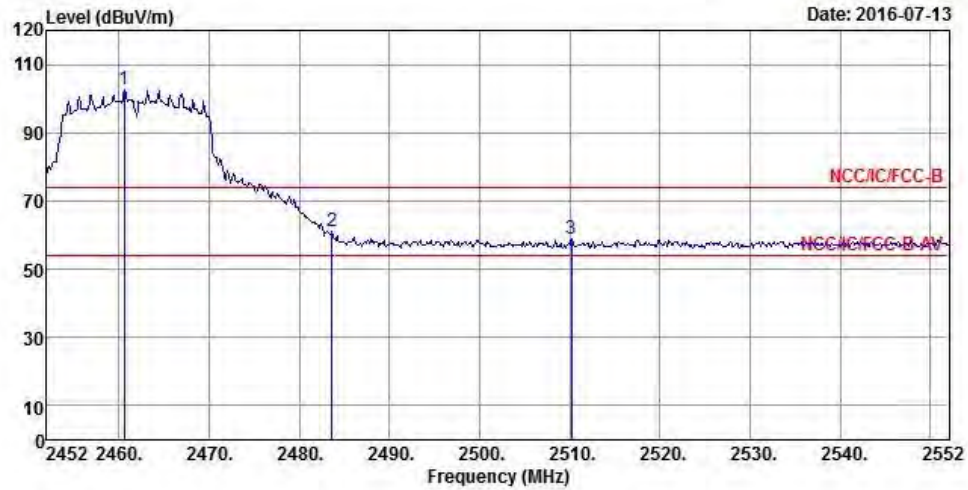


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2461.4000	106.14			75.68	27.31	3.15	0.00 Peak
2	2486.2000	58.69			28.15	27.37	3.17	0.00 Peak
3	2509.6000	59.04			28.44	27.42	3.18	0.00 Peak

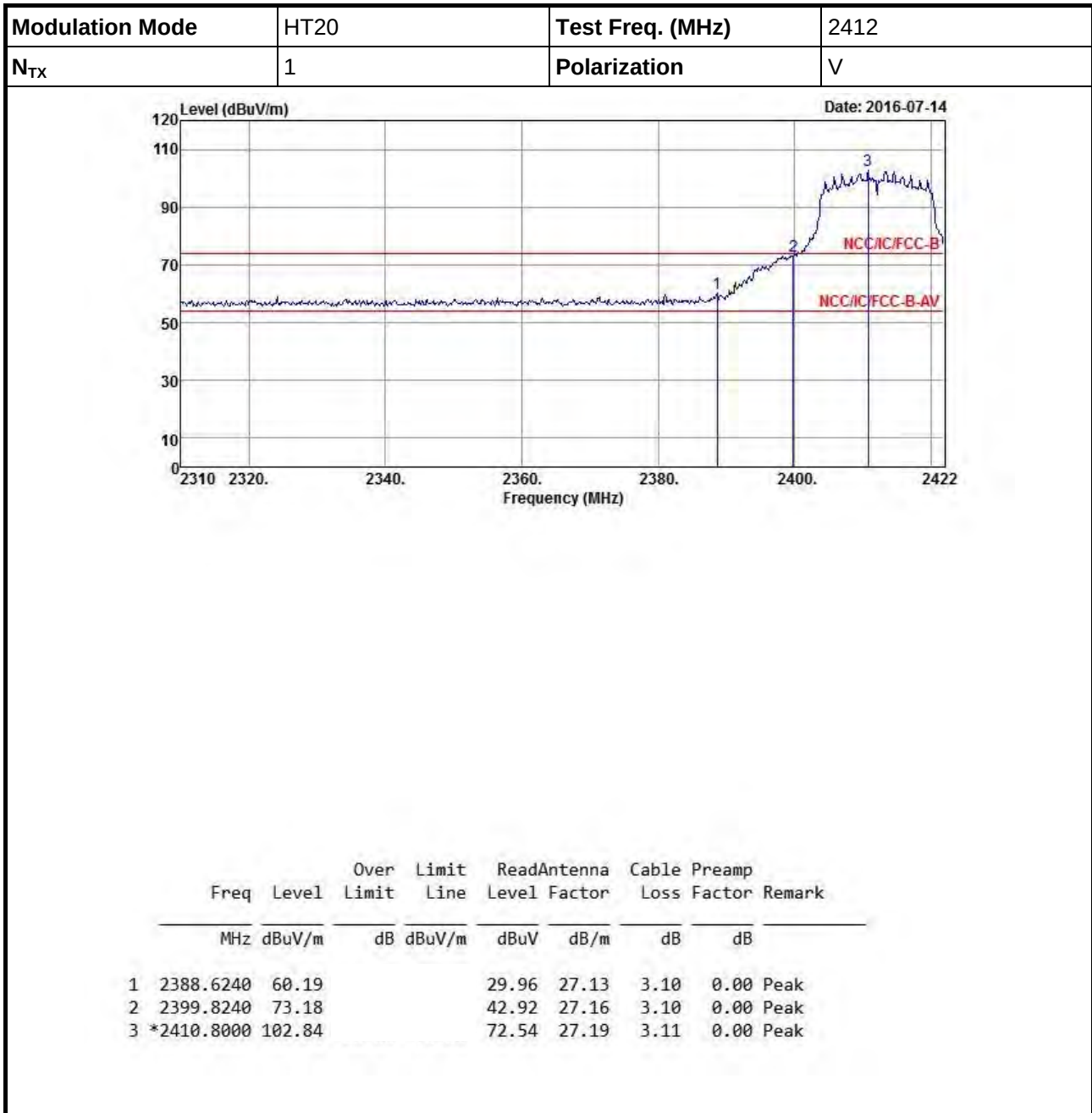


Transmitter Radiated Bandedge Emissions

Modulation Mode	11g	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V

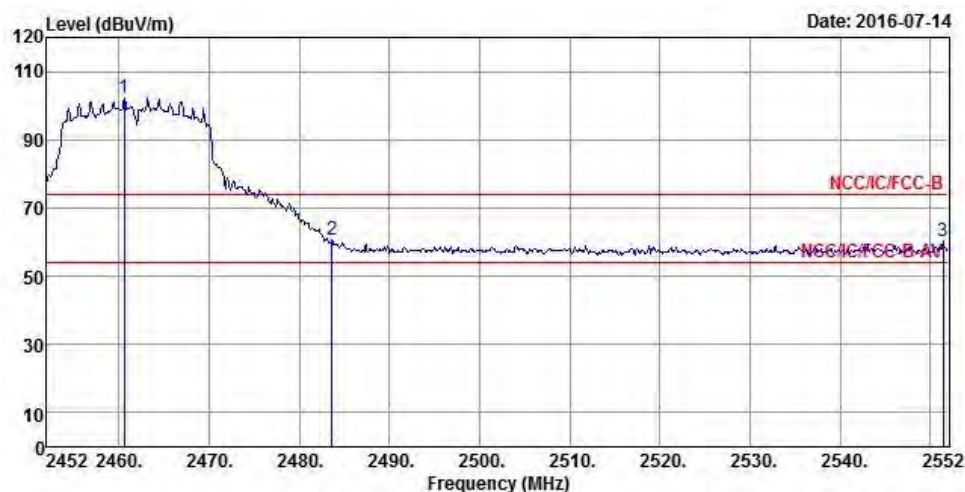


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2460.6000	102.52			72.06	27.31	3.15	0.00 Peak
2	2483.6000	61.10			30.57	27.36	3.17	0.00 Peak
3	2510.2000	59.00			28.40	27.42	3.18	0.00 Peak

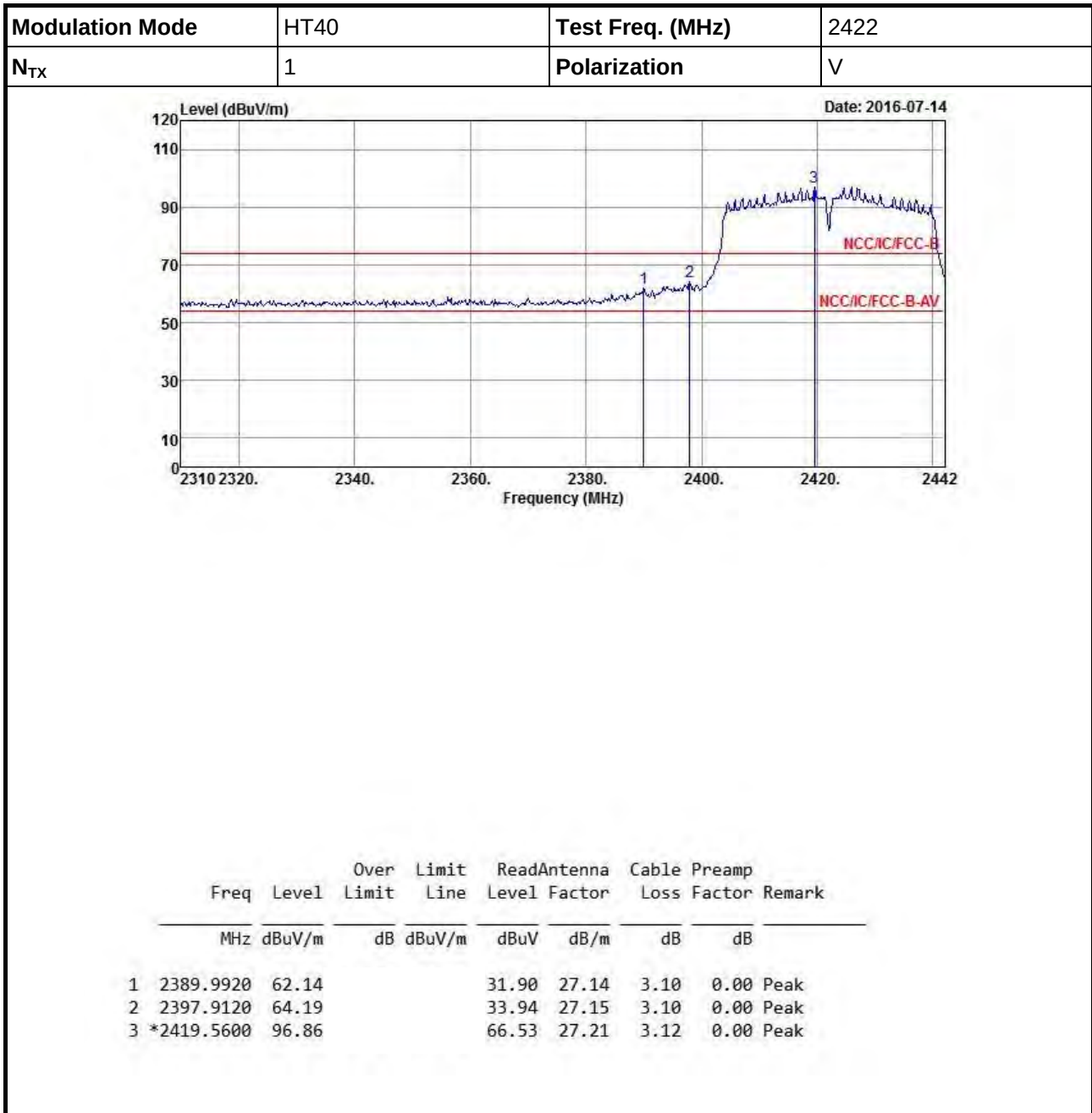


Transmitter Radiated Bandedge Emissions

Modulation Mode	HT20	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V

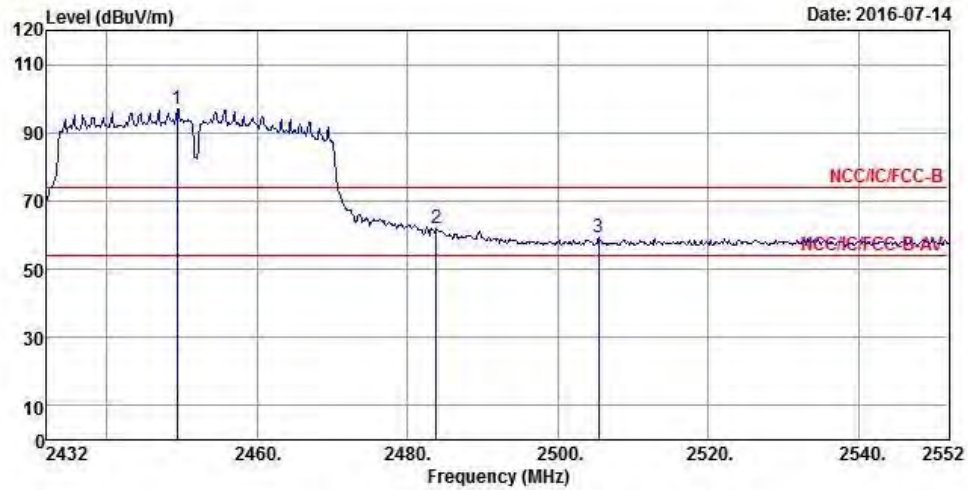


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2460.6000	102.41			71.95	27.31	3.15	0.00 Peak
2	2483.6000	60.61			30.08	27.36	3.17	0.00 Peak
3	2551.4000	60.07			29.36	27.51	3.20	0.00 Peak



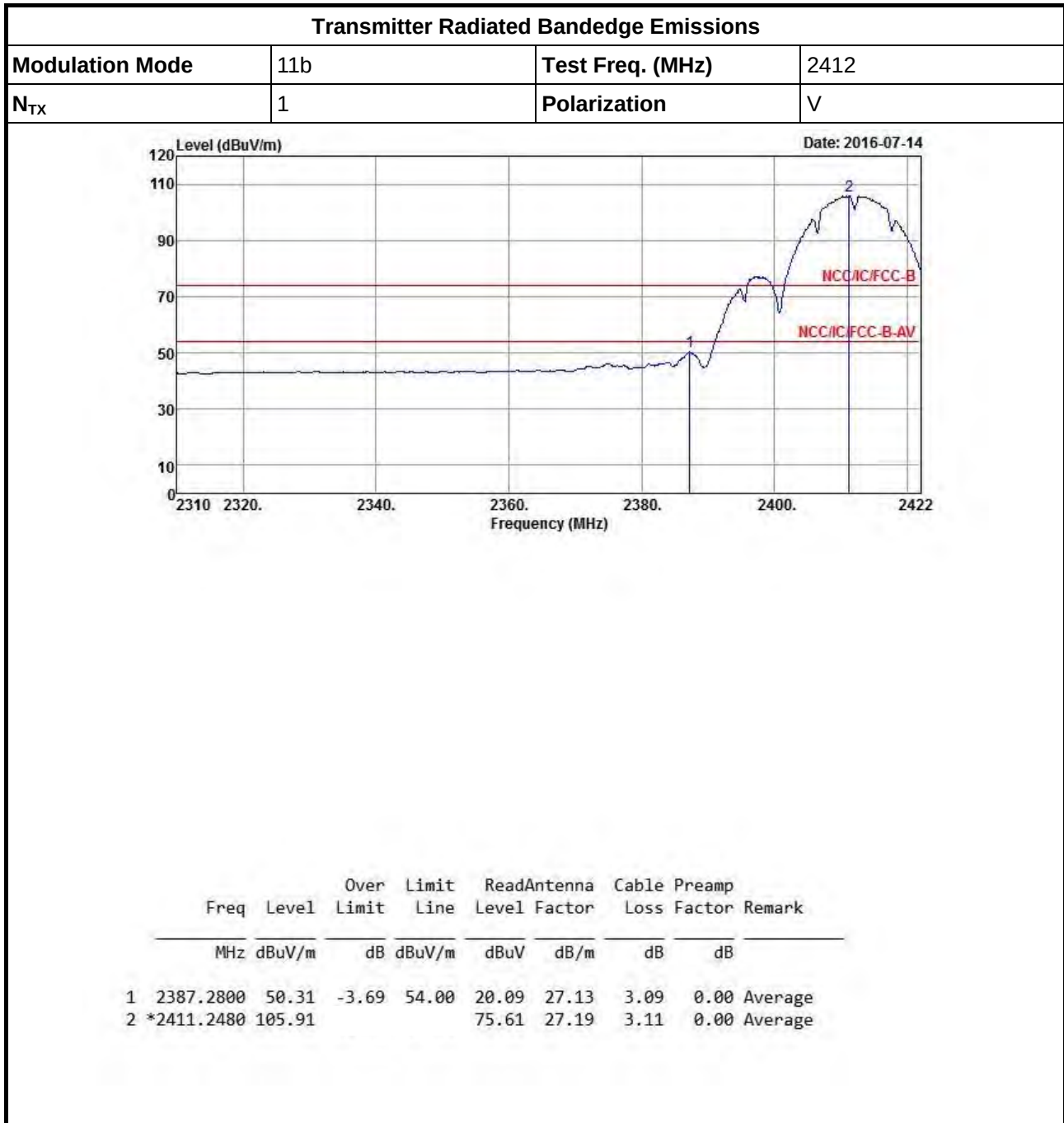
Transmitter Radiated Bandedge Emissions

Modulation Mode	HT40	Test Freq. (MHz)	2452
N _{TX}	1	Polarization	V



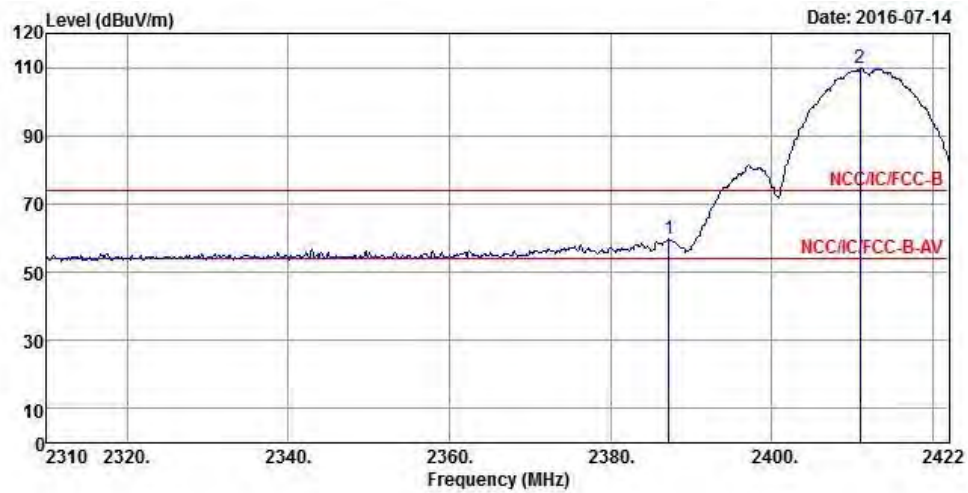
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2449.2800	97.09			66.67	27.28	3.14	0.00 Peak
2	2483.8400	62.15			31.62	27.36	3.17	0.00 Peak
3	2505.4400	59.17			28.58	27.41	3.18	0.00 Peak

1.1.2 Transmitter Radiated Bandedge Emissions (Restricted Band)



Transmitter Radiated Bandedge Emissions

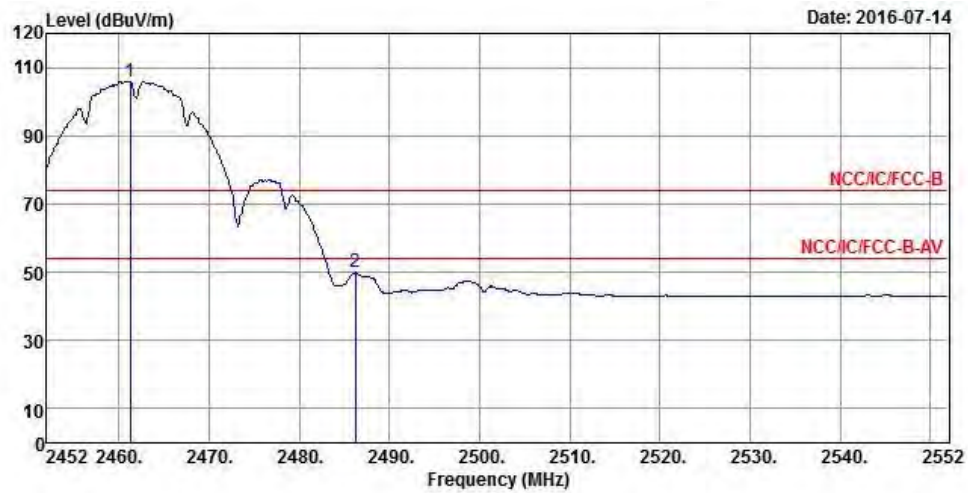
Modulation Mode	11b	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	2387.2800	59.58	-14.42	74.00	29.36	27.13	3.09	0.00 Peak
2	*2411.0240	109.79			79.49	27.19	3.11	0.00 Peak

Transmitter Radiated Bandedge Emissions

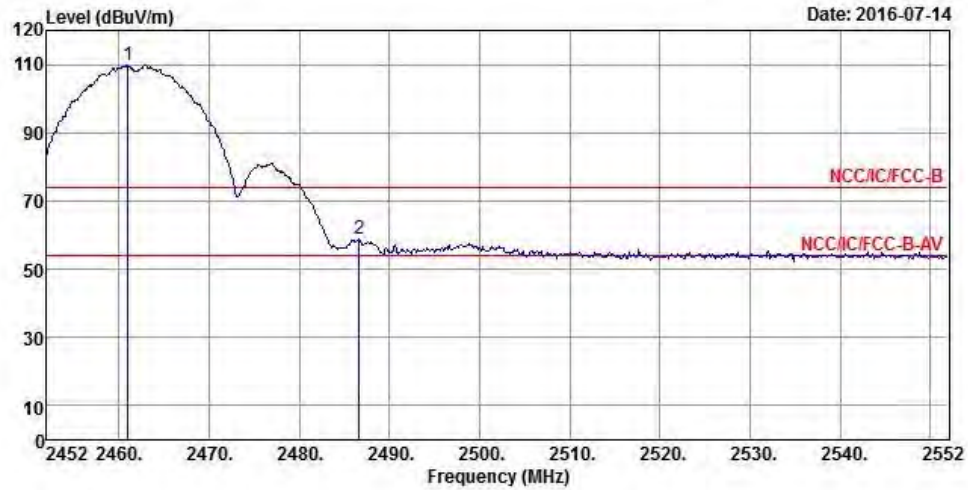
Modulation Mode	11b	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



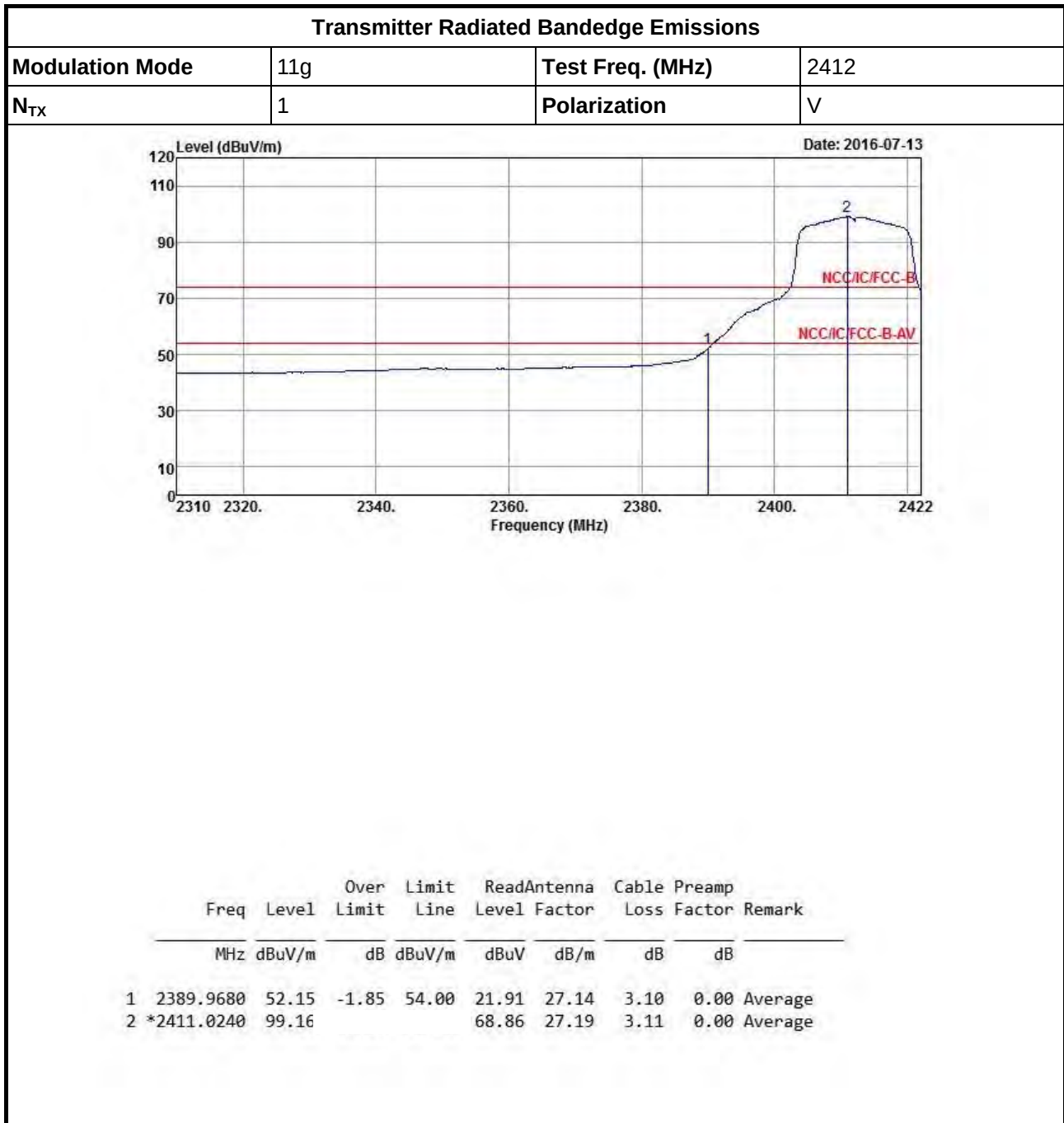
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2461.2000	105.98			75.52	27.31	3.15	0.00 Average
2	2486.2000	49.87	-4.13	54.00	19.33	27.37	3.17	0.00 Average

Transmitter Radiated Bandedge Emissions

Modulation Mode	11b	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V

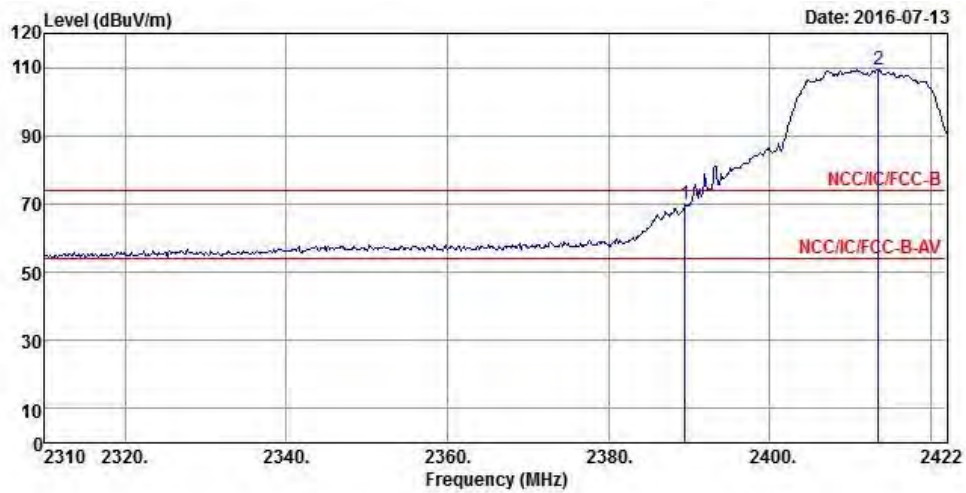


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2461.0000	109.81			79.35	27.31	3.15	0.00 Peak
2	2486.6000	58.82	-15.18	74.00	28.28	27.37	3.17	0.00 Peak



Transmitter Radiated Bandedge Emissions

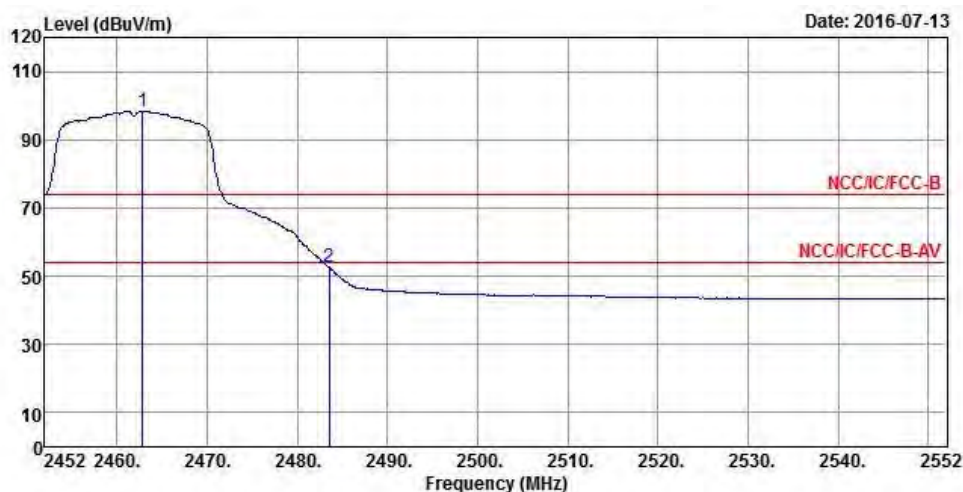
Modulation Mode	11g	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	2389.5200	69.74	-4.26	74.00	39.51	27.13	3.10	0.00 Peak
2	*2413.4880	109.35			79.05	27.19	3.11	0.00 Peak

Transmitter Radiated Bandedge Emissions

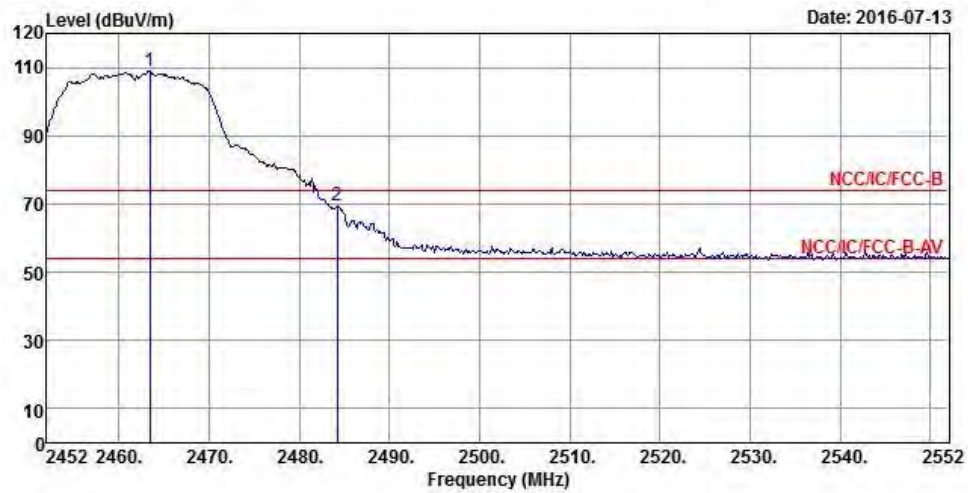
Modulation Mode	11g	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2462.8000	98.42			67.96	27.31	3.15	0.00 Average
2	2483.5000	52.51	-1.49	54.00	21.98	27.36	3.17	0.00 Average

Transmitter Radiated Bandedge Emissions

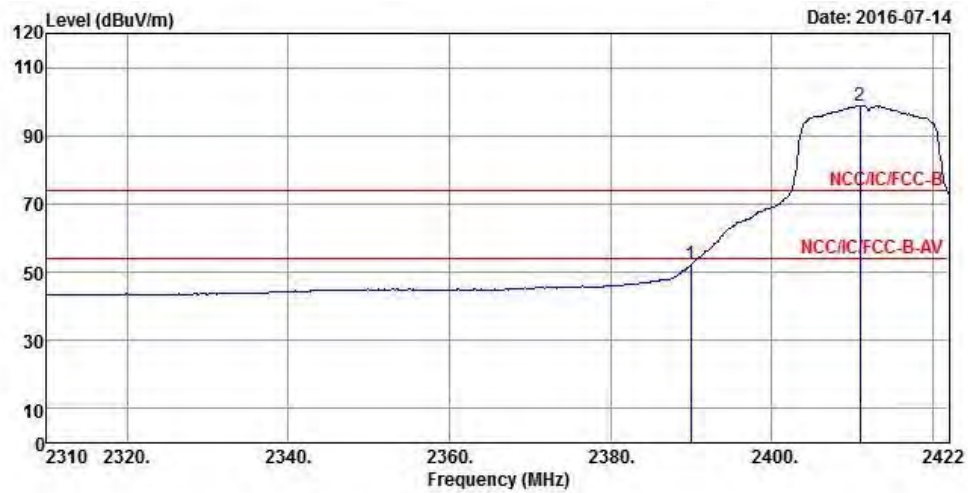
Modulation Mode	11g	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2463.4000	108.89			78.43	27.31	3.15	0.00 Peak
2	2484.2000	69.37	-4.63	74.00	38.84	27.36	3.17	0.00 Peak

Transmitter Radiated Bandedge Emissions

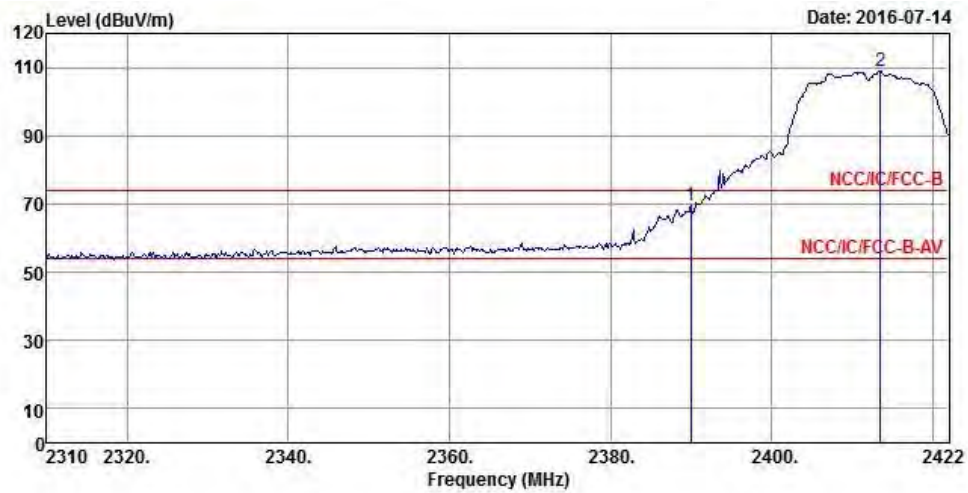
Modulation Mode	HT20	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss	Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	2389.9680	52.15	-1.85	54.00	21.91	27.14	3.10	0.00 Average
2	*2411.0240	98.77			68.47	27.19	3.11	0.00 Average

Transmitter Radiated Bandedge Emissions

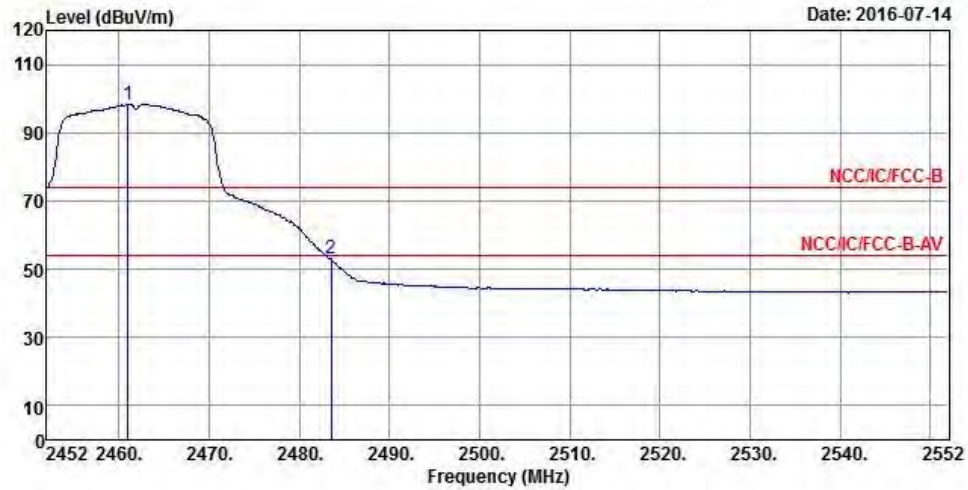
Modulation Mode	HT20	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	2389.9680	69.67	-4.33	74.00	39.43	27.14	3.10	0.00 Peak
2	*2413.4880	108.90			78.60	27.19	3.11	0.00 Peak

Transmitter Radiated Bandedge Emissions

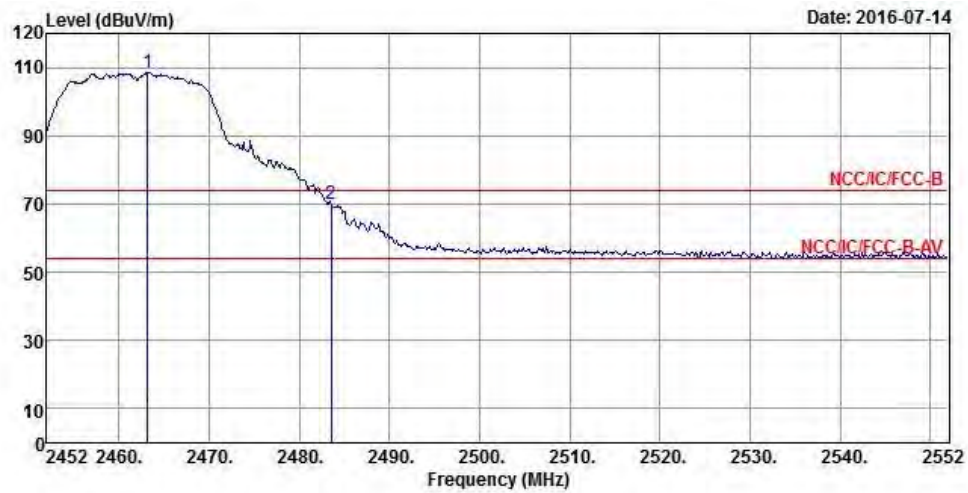
Modulation Mode	HT20	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2461.0000	98.34			67.88	27.31	3.15	0.00 Average
2	2483.5000	52.93	-1.07	54.00	22.40	27.36	3.17	0.00 Average

Transmitter Radiated Bandedge Emissions

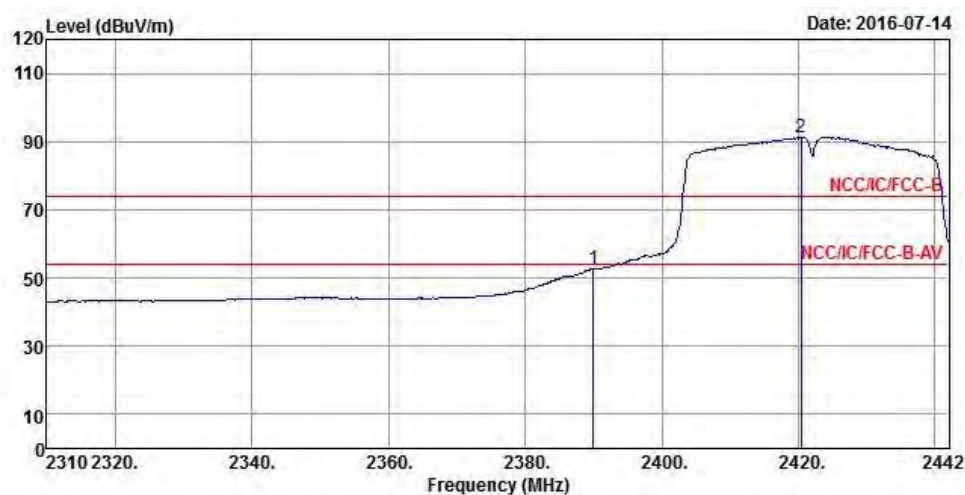
Modulation Mode	HT20	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2463.2000	108.68			78.22	27.31	3.15	0.00 Peak
2	2483.5000	69.88	-4.12	74.00	39.35	27.36	3.17	0.00 Peak

Transmitter Radiated Bandedge Emissions

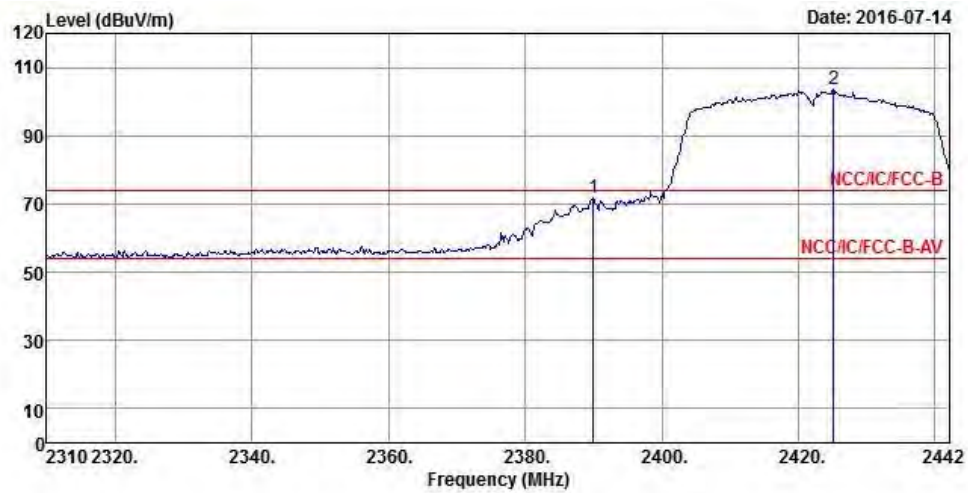
Modulation Mode	HT40	Test Freq. (MHz)	2422
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	2389.9920	52.73	-1.27	54.00	22.49	27.14	3.10	0.00 Average
2	*2420.3520	91.43			61.10	27.21	3.12	0.00 Average

Transmitter Radiated Bandedge Emissions

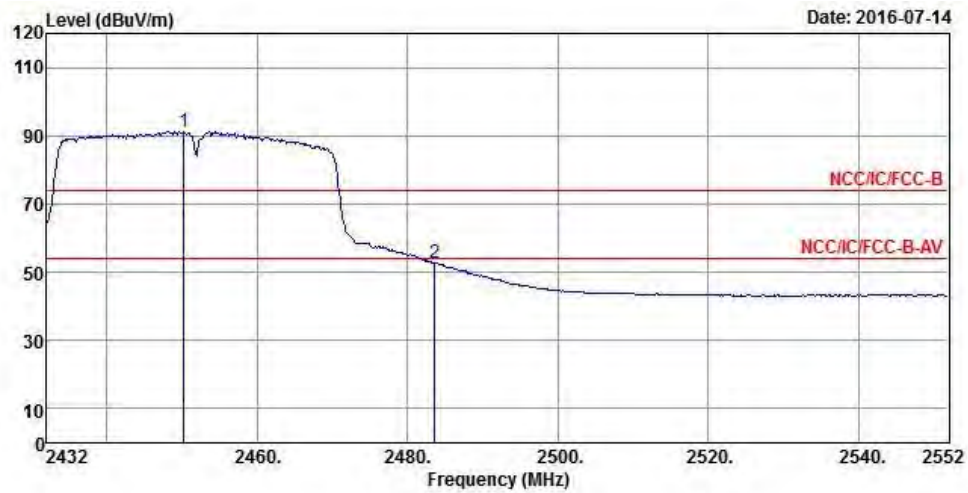
Modulation Mode	HT40	Test Freq. (MHz)	2422
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	2389.9920	71.59	-2.41	74.00	41.35	27.14	3.10	0.00 Peak
2	*2425.1040	103.56			73.22	27.22	3.12	0.00 Peak

Transmitter Radiated Bandedge Emissions

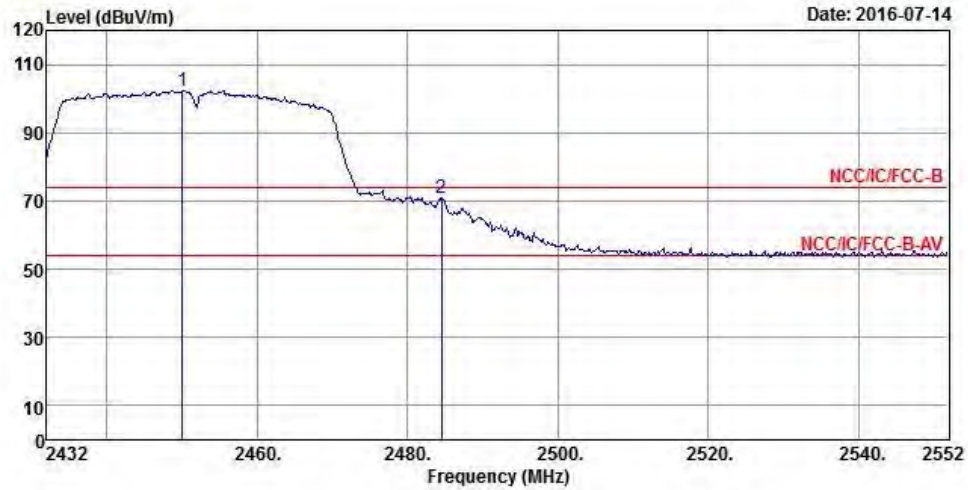
Modulation Mode	HT40	Test Freq. (MHz)	2452
N _{TX}	1	Polarization	V



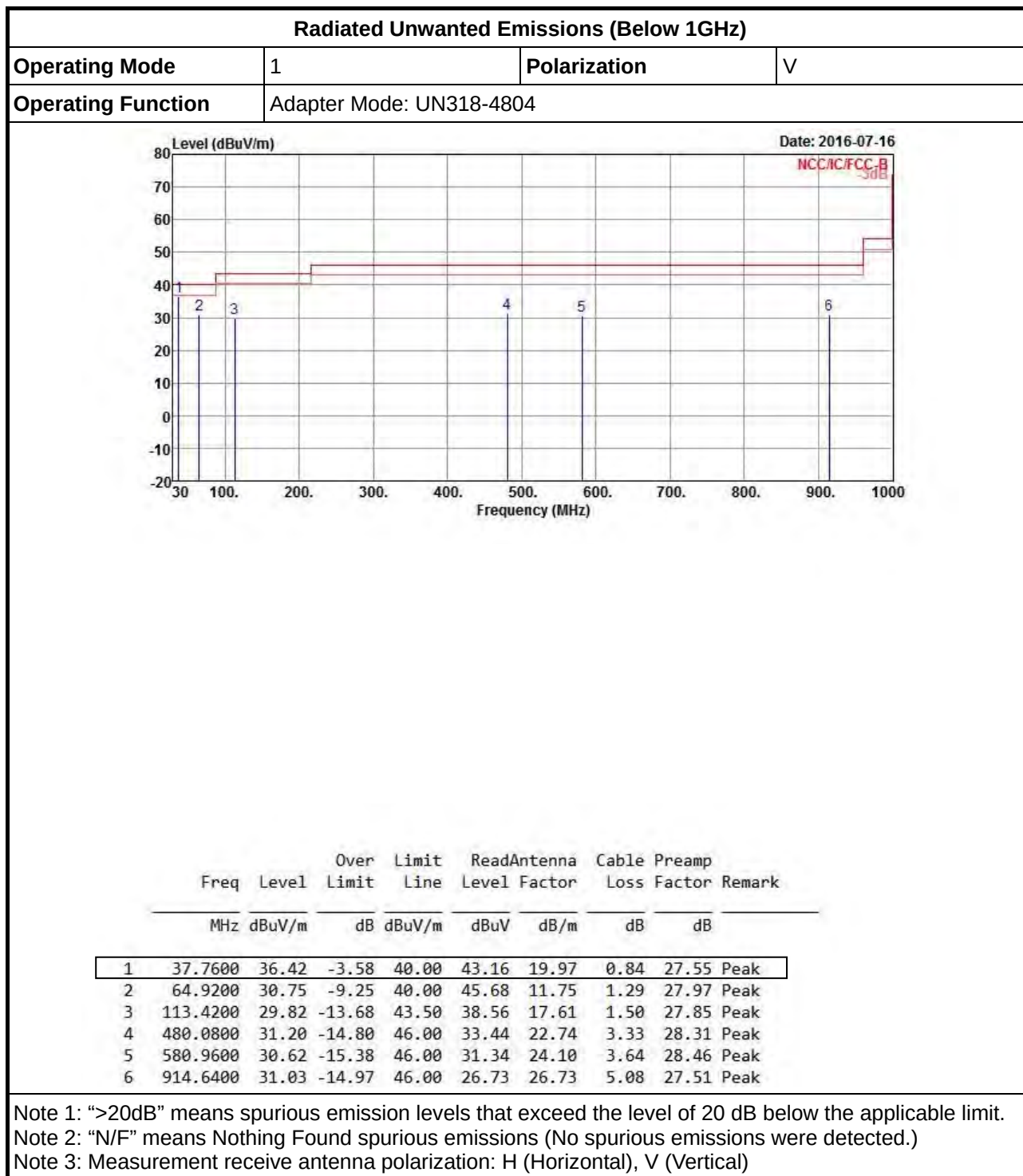
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2450.2400	91.40			60.98	27.28	3.14	0.00 Average
2	2483.6000	52.73	-1.27	54.00	22.20	27.36	3.17	0.00 Average

Transmitter Radiated Bandedge Emissions

Modulation Mode	HT40	Test Freq. (MHz)	2452
N _{TX}	1	Polarization	V

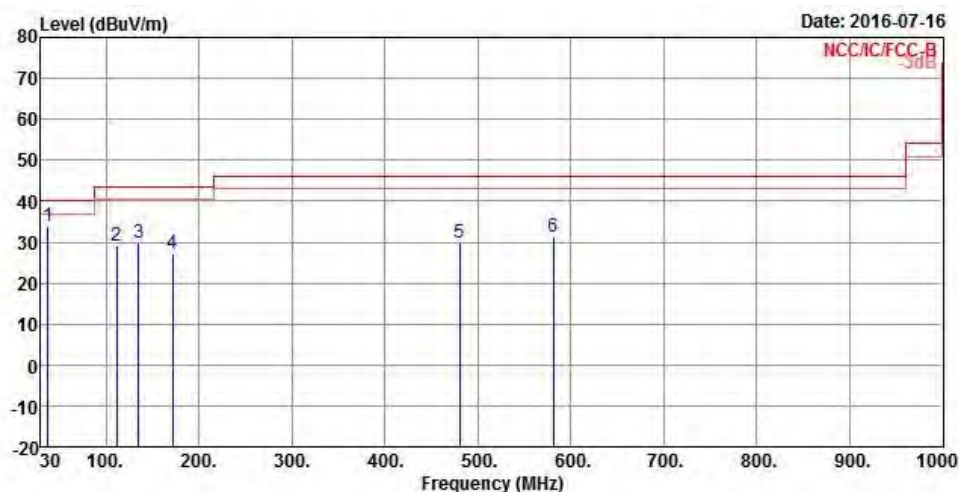


	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	*2450.0000	102.46			72.04	27.28	3.14	0.00 Peak
2	2484.5600	70.79	-3.21	74.00	40.26	27.36	3.17	0.00 Peak

Transmitter Radiated Unwanted Emissions (Below 1GHz)


Radiated Unwanted Emissions (Below 1GHz)

Operating Mode	1	Polarization	H
Operating Function	Adapter Mode: UN318-4804		



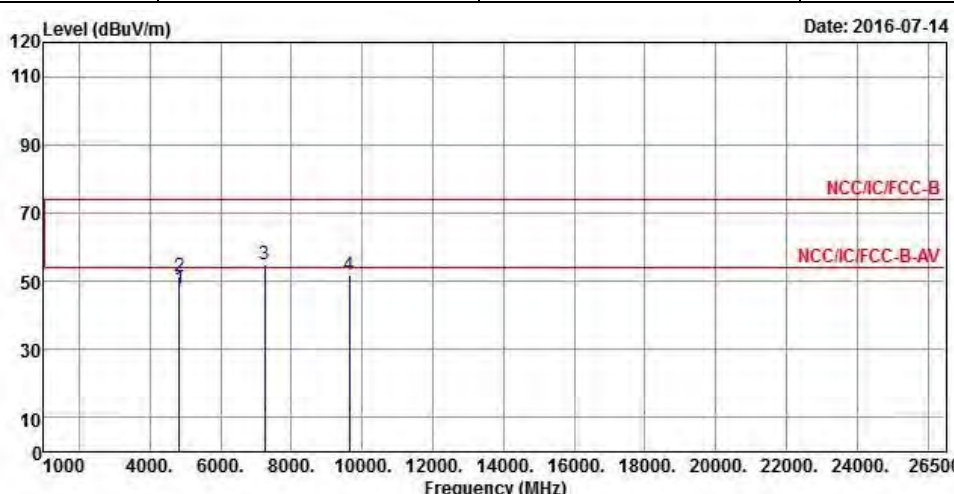
	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	37.7600	33.96	-6.04	40.00	40.70	19.97	0.84	27.55 Peak
2	111.4800	28.98	-14.52	43.50	37.82	17.55	1.47	27.86 Peak
3	134.7600	29.97	-13.53	43.50	38.68	17.24	1.75	27.70 Peak
4	171.6200	27.21	-16.29	43.50	37.58	15.21	1.93	27.51 Peak
5	480.0800	29.75	-16.25	46.00	31.99	22.74	3.33	28.31 Peak
6	580.9600	31.29	-14.71	46.00	32.01	24.10	3.64	28.46 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

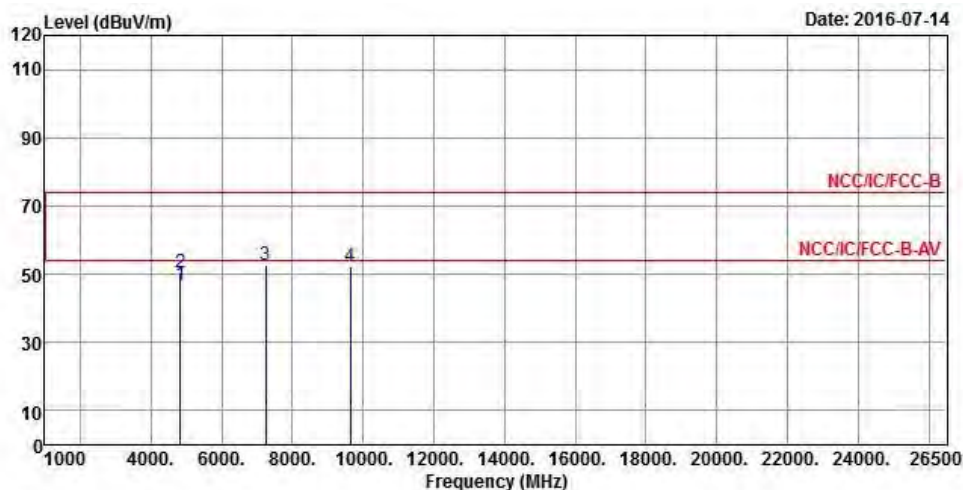
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Transmitter Radiated Unwanted Emissions (Above 1GHz)																																																																							
Modulation Mode	11b			Test Freq. (MHz)	2412																																																																		
N _{TX}	1			Polarization	V																																																																		
Level (dBuV/m) Date: 2016-07-14  Frequency (MHz) <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>Limit</th><th>Line</th><th>Level</th><th>Loss</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th></th><th></th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th></tr><tr><td>1</td><td>4824.0000</td><td>47.98</td><td>-6.02</td><td>54.00</td><td>47.34</td><td>31.15</td><td>4.32</td><td>34.83 Average</td></tr><tr><td>2</td><td>4824.0000</td><td>51.15</td><td>-22.85</td><td>74.00</td><td>50.51</td><td>31.15</td><td>4.32</td><td>34.83 Peak</td></tr><tr><td>3</td><td>7236.0000</td><td>55.01</td><td></td><td></td><td>48.98</td><td>35.72</td><td>5.37</td><td>35.06 Peak</td></tr><tr><td>4</td><td>9648.0000</td><td>51.81</td><td></td><td></td><td>42.48</td><td>38.62</td><td>6.09</td><td>35.38 Peak</td></tr></table>										Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp			MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark				dB	dBuV/m	dBuV	dB/m	dB	dB	1	4824.0000	47.98	-6.02	54.00	47.34	31.15	4.32	34.83 Average	2	4824.0000	51.15	-22.85	74.00	50.51	31.15	4.32	34.83 Peak	3	7236.0000	55.01			48.98	35.72	5.37	35.06 Peak	4	9648.0000	51.81			42.48	38.62	6.09	35.38 Peak
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp																																																																
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark																																																															
			dB	dBuV/m	dBuV	dB/m	dB	dB																																																															
1	4824.0000	47.98	-6.02	54.00	47.34	31.15	4.32	34.83 Average																																																															
2	4824.0000	51.15	-22.85	74.00	50.51	31.15	4.32	34.83 Peak																																																															
3	7236.0000	55.01			48.98	35.72	5.37	35.06 Peak																																																															
4	9648.0000	51.81			42.48	38.62	6.09	35.38 Peak																																																															
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.) Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical) Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition. Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.79 dBuV/m). Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.																																																																							

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4824.0000	46.89	-7.11	54.00	46.25	31.15	4.32	34.83 Average
2	4824.0000	50.40	-23.60	74.00	49.76	31.15	4.32	34.83 Peak
3	7236.0000	52.56			46.53	35.72	5.37	35.06 Peak
4	9648.0000	52.17			42.84	38.62	6.09	35.38 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

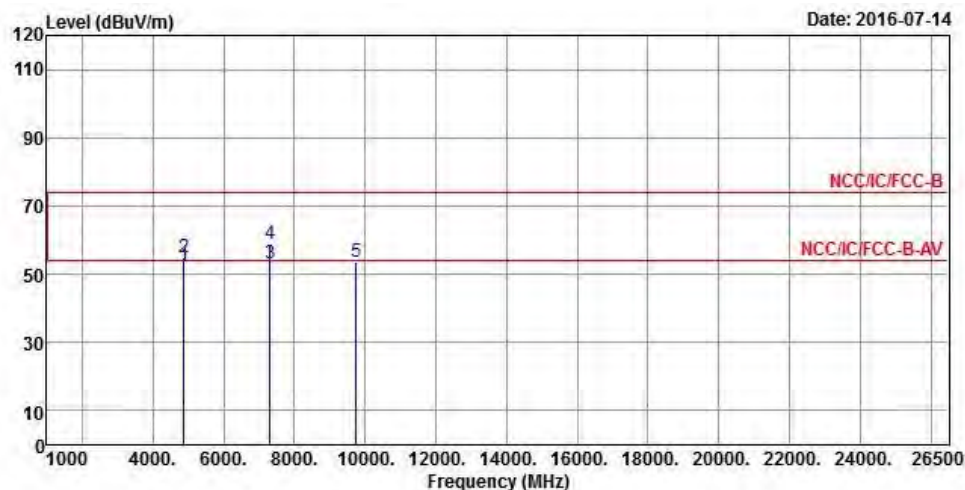
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.79dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	52.32	-1.68	54.00	51.56	31.22	4.35	34.81 Average
2	4874.0000	54.78	-19.22	74.00	54.02	31.22	4.35	34.81 Peak
3	7311.0000	52.98	-1.02	54.00	46.77	35.88	5.40	35.07 Average
4	7311.0000	58.75	-15.25	74.00	52.54	35.88	5.40	35.07 Peak
5	9748.0000	53.46			44.02	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

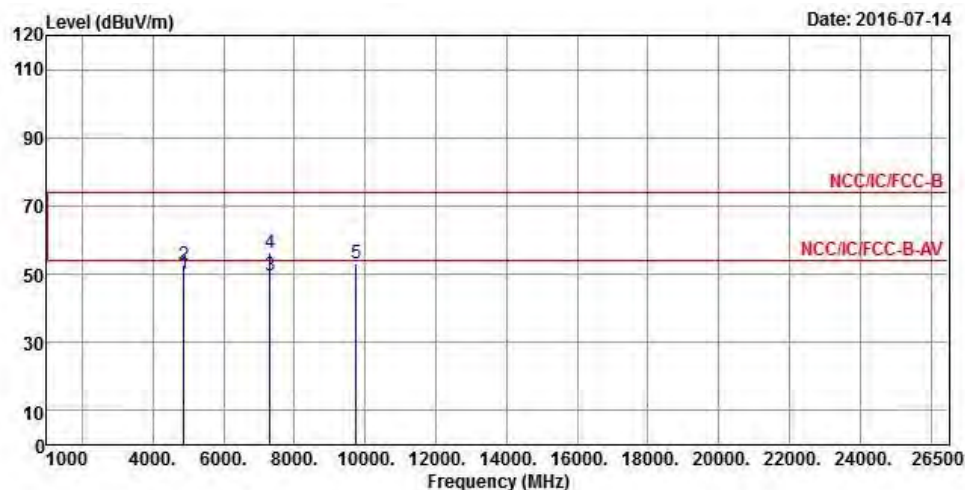
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.40 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	H



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
			dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	49.82	-4.18	54.00	49.06	31.22	4.35	34.81 Average
2	4874.0000	52.75	-21.25	74.00	51.99	31.22	4.35	34.81 Peak
3	7311.0000	49.63	-4.37	54.00	43.42	35.88	5.40	35.07 Average
4	7311.0000	56.02	-17.98	74.00	49.81	35.88	5.40	35.07 Peak
5	9748.0000	53.05			43.61	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

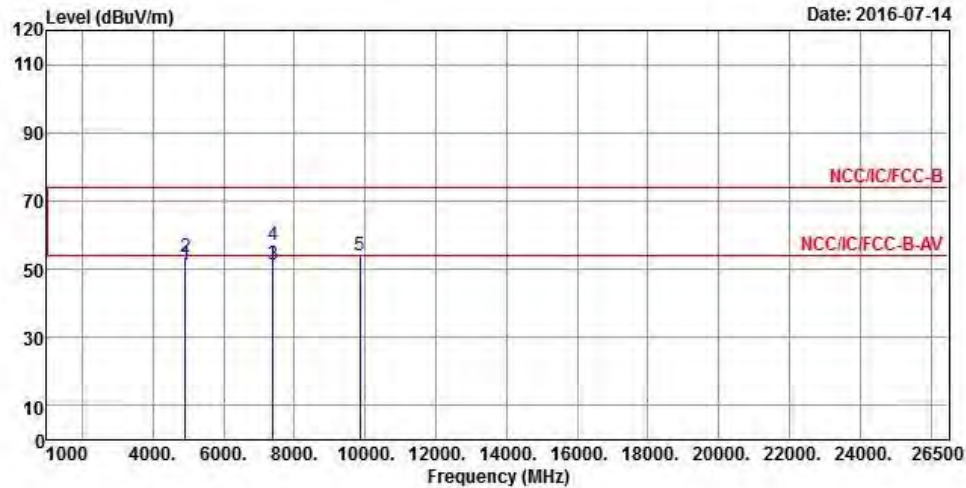
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (110.40 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor
			dB	dBuV/m	dBuV	dB/m	dB	dB
1	4924.0000	51.15	-2.85	54.00	50.27	31.29	4.38	34.79 Average
2	4924.0000	53.60	-20.40	74.00	52.72	31.29	4.38	34.79 Peak
3	7386.0000	51.30	-2.70	54.00	44.90	36.05	5.43	35.08 Average
4	7386.0000	57.30	-16.70	74.00	50.90	36.05	5.43	35.08 Peak
5	9848.0000	54.16			44.60	38.78	6.18	35.40 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

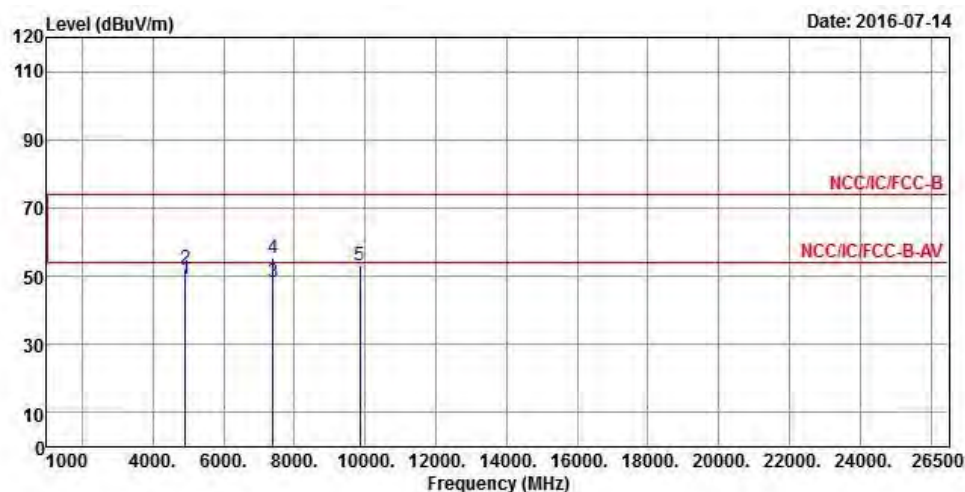
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least **20** dB relative to the maximum measured in-band level (109.81 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11b	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4924.0000	49.33	-4.67	54.00	48.45	31.29	4.38	34.79 Average
2	4924.0000	52.25	-21.75	74.00	51.37	31.29	4.38	34.79 Peak
3	7386.0000	48.26	-5.74	54.00	41.86	36.05	5.43	35.08 Average
4	7386.0000	55.20	-18.80	74.00	48.80	36.05	5.43	35.08 Peak
5	9848.0000	53.18			43.62	38.78	6.18	35.40 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

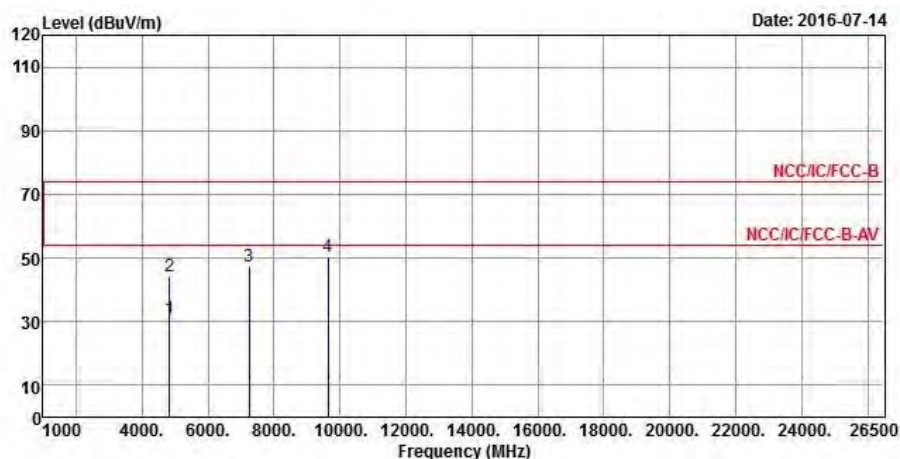
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.81dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4824.0000	30.78	-23.22	54.00	30.14	31.15	4.32	34.83	Average
2	4824.0000	44.32	-29.68	74.00	43.68	31.15	4.32	34.83	Peak
3	7236.0000	47.43			41.40	35.72	5.37	35.06	Peak
4	9648.0000	50.33			41.00	38.62	6.09	35.38	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

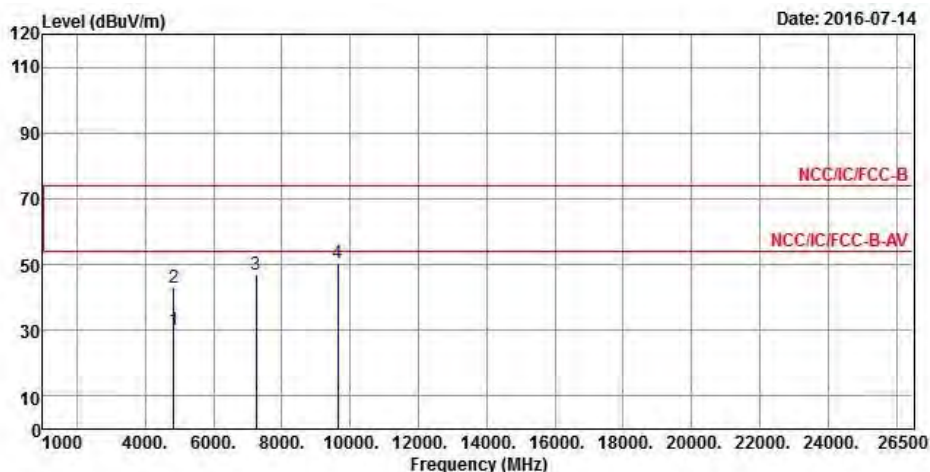
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.35dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4824.0000	30.21	-23.79	54.00	29.57	31.15	4.32	34.83 Average
2	4824.0000	43.14	-30.86	74.00	42.50	31.15	4.32	34.83 Peak
3	7236.0000	46.73			40.70	35.72	5.37	35.06 Peak
4	9648.0000	50.50			41.17	38.62	6.09	35.38 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

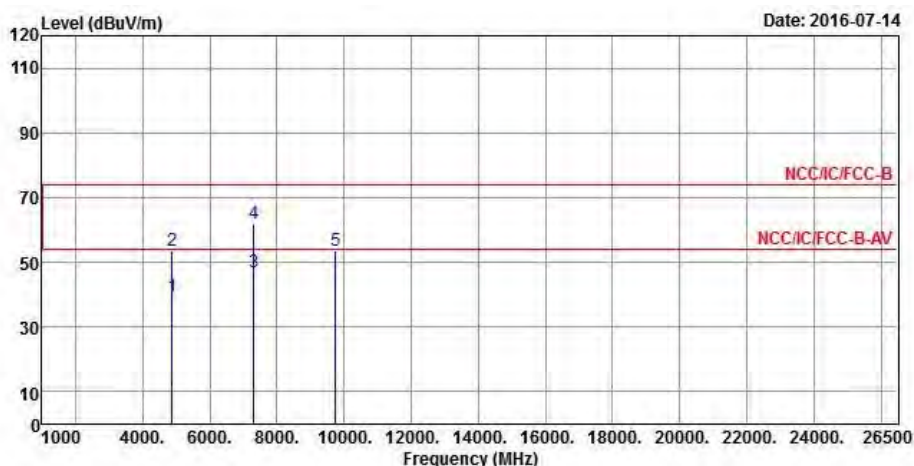
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (109.35 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	39.55	-14.45	54.00	38.79	31.22	4.35	34.81 Average
2	4874.0000	53.62	-20.38	74.00	52.86	31.22	4.35	34.81 Peak
3	7311.0000	46.81	-7.19	54.00	40.60	35.88	5.40	35.07 Average
4	7311.0000	61.80	-12.20	74.00	55.59	35.88	5.40	35.07 Peak
5	9748.0000	53.52			44.08	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

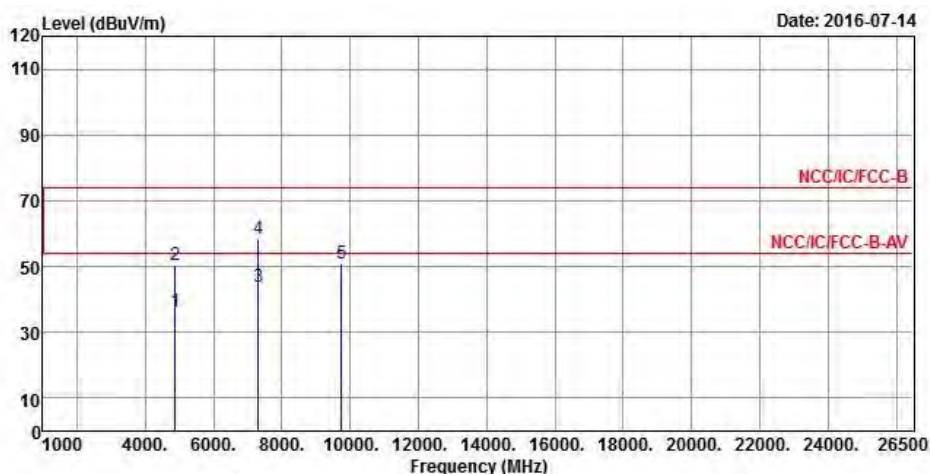
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (114.29 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4874.0000	36.46	-17.54	54.00	35.70	31.22	4.35	34.81	Average
2	4874.0000	50.49	-23.51	74.00	49.73	31.22	4.35	34.81	Peak
3	7311.0000	43.63	-10.37	54.00	37.42	35.88	5.40	35.07	Average
4	7311.0000	58.31	-15.69	74.00	52.10	35.88	5.40	35.07	Peak
5	9748.0000	51.07			41.63	38.70	6.13	35.39	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

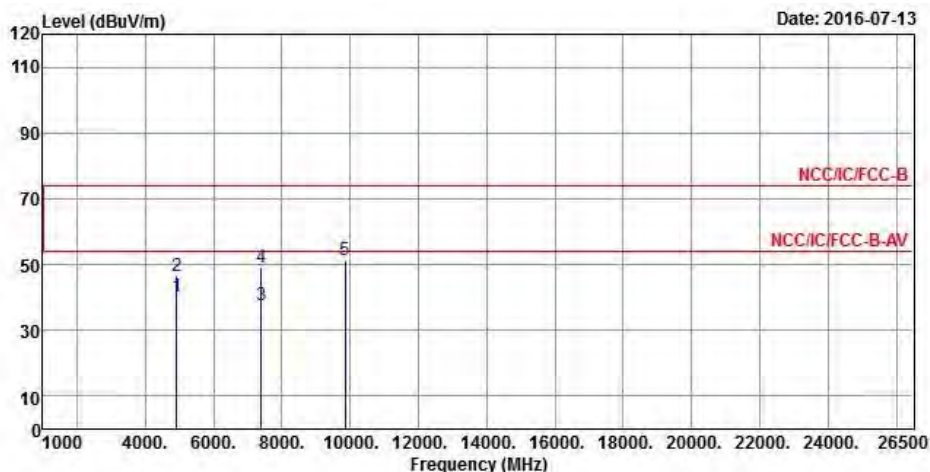
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (114.29 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	
1	4924.0000	40.12	-13.88	54.00	39.24	31.29	4.38	34.79	Average
2	4924.0000	46.67	-27.33	74.00	45.79	31.29	4.38	34.79	Peak
3	7386.0000	37.62	-16.38	54.00	31.22	36.05	5.43	35.08	Average
4	7386.0000	49.23	-24.77	74.00	42.83	36.05	5.43	35.08	Peak
5	9848.0000	51.24			41.68	38.78	6.18	35.40	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

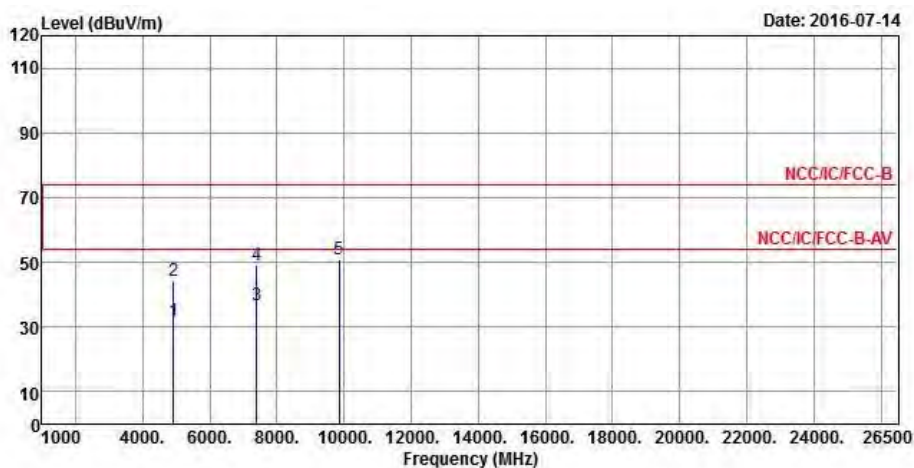
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.89 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	11g	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4924.0000	31.84	-22.16	54.00	30.96	31.29	4.38	34.79 Average
2	4924.0000	44.47	-29.53	74.00	43.59	31.29	4.38	34.79 Peak
3	7386.0000	36.88	-17.12	54.00	30.48	36.05	5.43	35.08 Average
4	7386.0000	49.16	-24.84	74.00	42.76	36.05	5.43	35.08 Peak
5	9848.0000	50.96			41.40	38.78	6.18	35.40 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

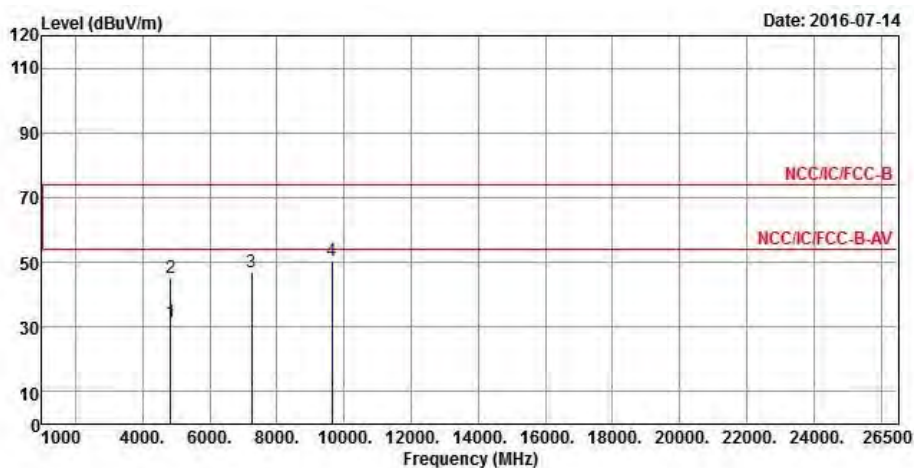
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level ((108.89 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4824.0000	31.44	-22.56	54.00	30.80	31.15	4.32	34.83 Average
2	4824.0000	45.37	-28.63	74.00	44.73	31.15	4.32	34.83 Peak
3	7236.0000	46.76			40.73	35.72	5.37	35.06 Peak
4	9648.0000	50.60			41.27	38.62	6.09	35.38 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

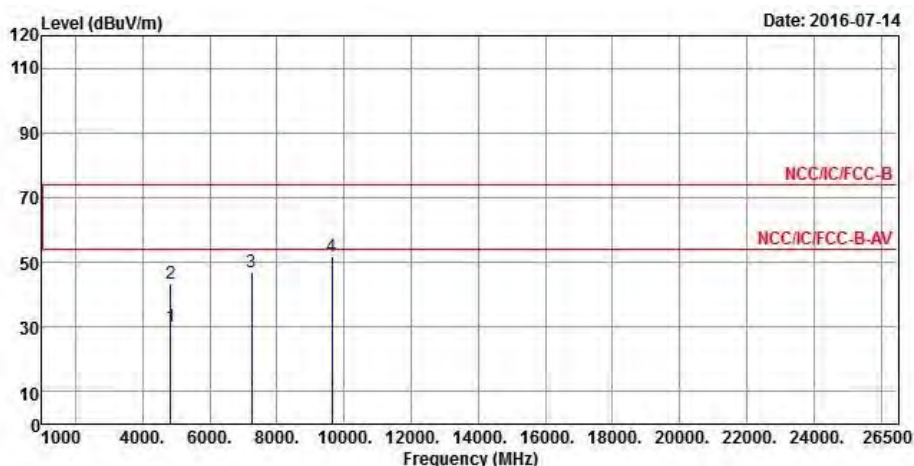
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.90 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2412
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4824.0000	30.05	-23.95	54.00	29.41	31.15	4.32	34.83 Average
2	4824.0000	43.51	-30.49	74.00	42.87	31.15	4.32	34.83 Peak
3	7236.0000	47.05			41.02	35.72	5.37	35.06 Peak
4	9648.0000	51.94			42.61	38.62	6.09	35.38 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

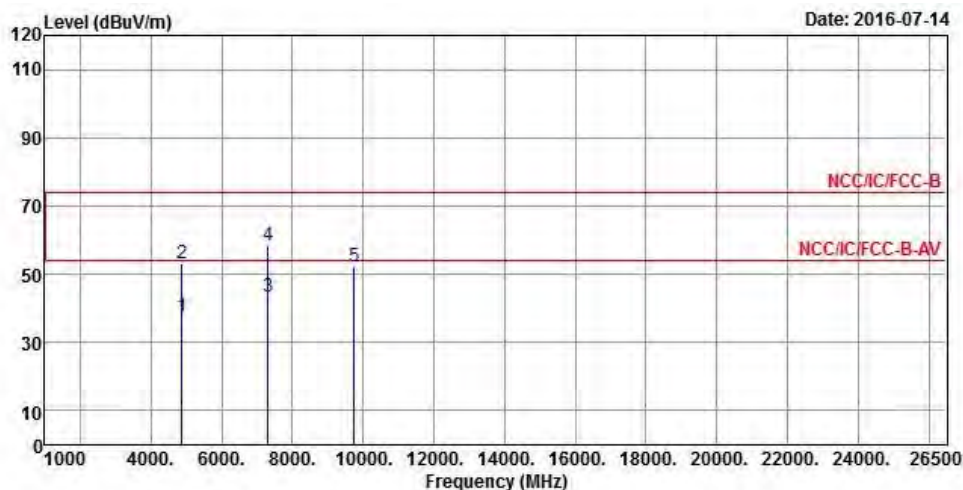
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.90 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	V



	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	37.84	-16.16	54.00	37.08	31.22	4.35	34.81 Average
2	4874.0000	52.94	-21.06	74.00	52.18	31.22	4.35	34.81 Peak
3	7311.0000	43.34	-10.66	54.00	37.13	35.88	5.40	35.07 Average
4	7311.0000	58.26	-15.74	74.00	52.05	35.88	5.40	35.07 Peak
5	9748.0000	52.32			42.88	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

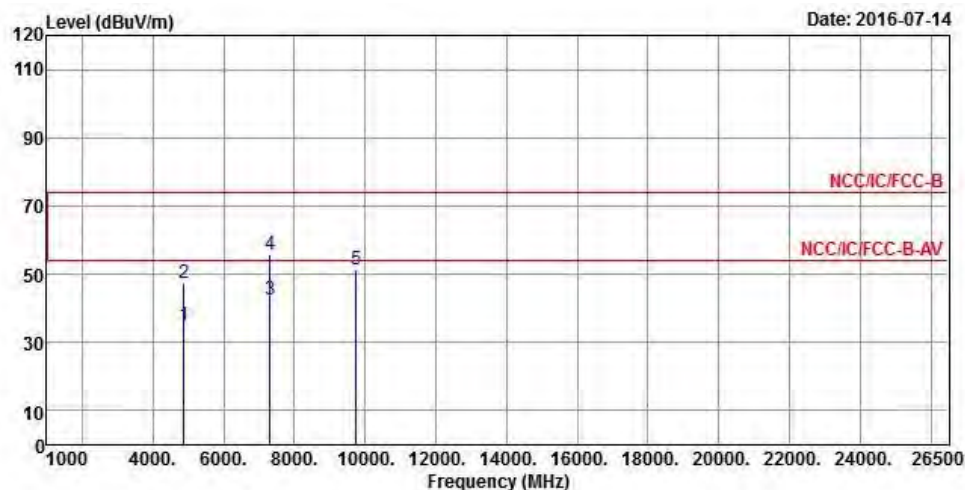
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.37 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	35.16	-18.84	54.00	34.40	31.22	4.35	34.81 Average
2	4874.0000	47.16	-26.84	74.00	46.40	31.22	4.35	34.81 Peak
3	7311.0000	42.31	-11.69	54.00	36.10	35.88	5.40	35.07 Average
4	7311.0000	55.70	-18.30	74.00	49.49	35.88	5.40	35.07 Peak
5	9748.0000	51.35			41.91	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

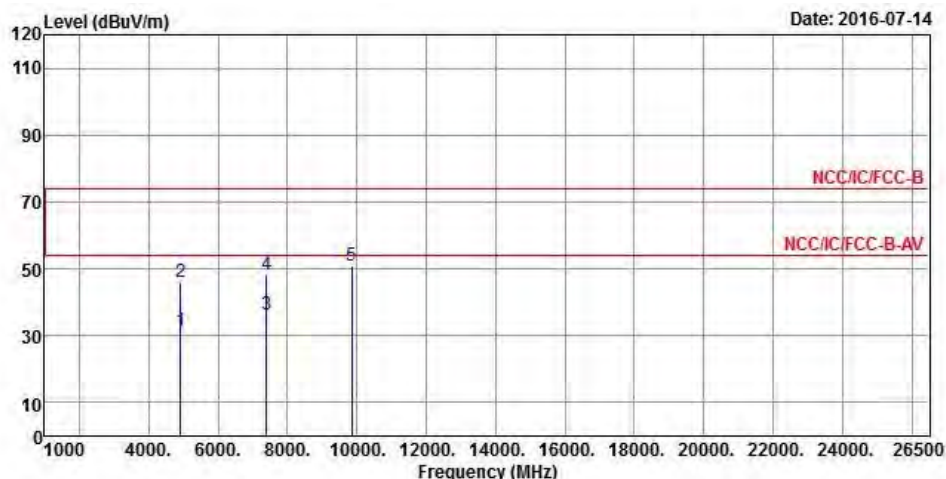
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (113.37 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4924.0000	31.35	-22.65	54.00	30.47	31.29	4.38	34.79 Average
2	4924.0000	45.94	-28.06	74.00	45.06	31.29	4.38	34.79 Peak
3	7386.0000	36.16	-17.84	54.00	29.76	36.05	5.43	35.08 Average
4	7386.0000	48.34	-25.66	74.00	41.94	36.05	5.43	35.08 Peak
5	9848.0000	51.02			41.46	38.78	6.18	35.40 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

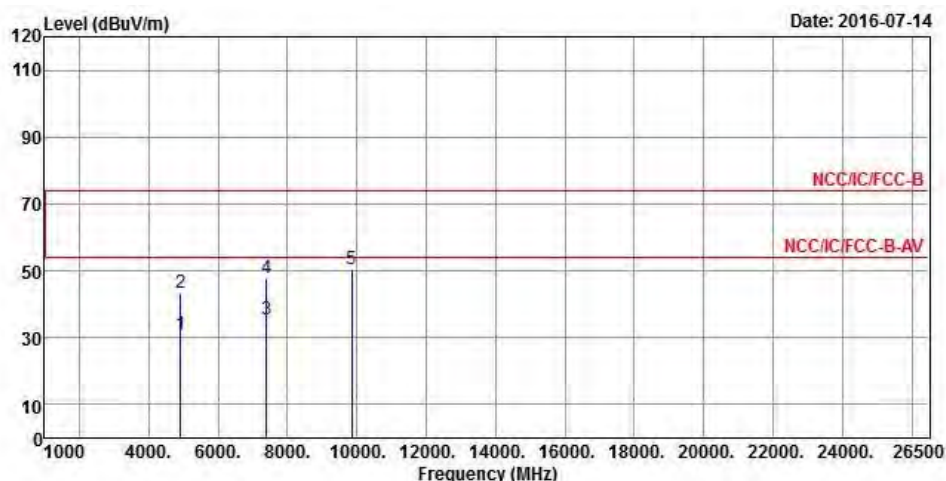
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.68 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT20	Test Freq. (MHz)	2462
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4924.0000	30.94	-23.06	54.00	30.06	31.29	4.38	34.79 Average
2	4924.0000	43.32	-30.68	74.00	42.44	31.29	4.38	34.79 Peak
3	7386.0000	35.57	-18.43	54.00	29.17	36.05	5.43	35.08 Average
4	7386.0000	47.92	-26.08	74.00	41.52	36.05	5.43	35.08 Peak
5	9848.0000	50.44			40.88	38.78	6.18	35.40 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

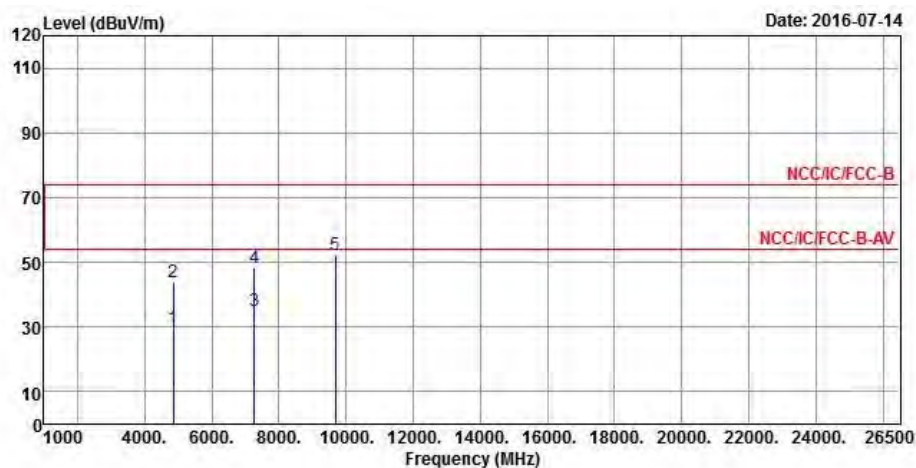
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (108.68 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2422
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4844.0000	29.54	-24.46	54.00	28.85	31.18	4.33	34.82 Average
2	4844.0000	43.67	-30.33	74.00	42.98	31.18	4.33	34.82 Peak
3	7266.0000	34.95	-19.05	54.00	28.85	35.79	5.38	35.07 Average
4	7266.0000	48.36	-25.64	74.00	42.26	35.79	5.38	35.07 Peak
5	9688.0000	52.07			42.70	38.65	6.11	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

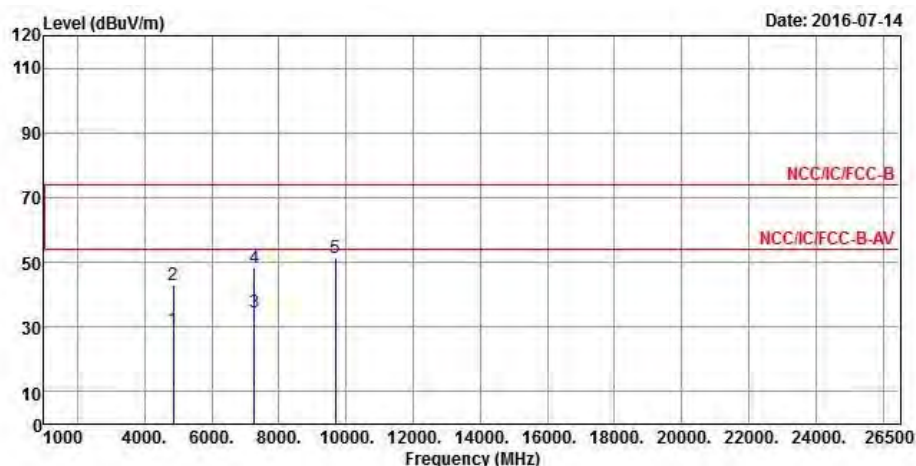
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (103.56 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2422
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4844.0000	29.31	-24.69	54.00	28.62	31.18	4.33	34.82 Average
2	4844.0000	43.13	-30.87	74.00	42.44	31.18	4.33	34.82 Peak
3	7266.0000	34.48	-19.52	54.00	28.38	35.79	5.38	35.07 Average
4	7266.0000	48.07	-25.93	74.00	41.97	35.79	5.38	35.07 Peak
5	9688.0000	51.34			41.97	38.65	6.11	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

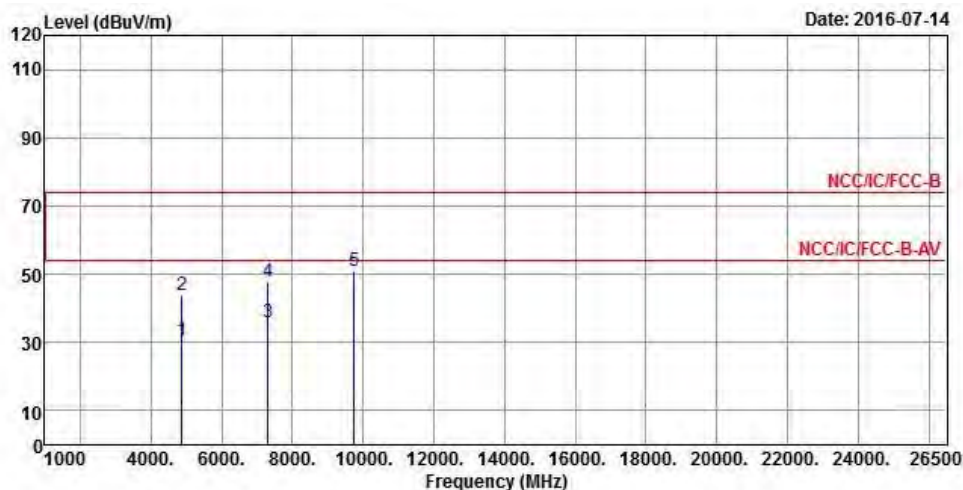
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (103.56 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	30.53	-23.47	54.00	29.77	31.22	4.35	34.81 Average
2	4874.0000	43.95	-30.05	74.00	43.19	31.22	4.35	34.81 Peak
3	7311.0000	35.74	-18.26	54.00	29.53	35.88	5.40	35.07 Average
4	7311.0000	47.66	-26.34	74.00	41.45	35.88	5.40	35.07 Peak
5	9748.0000	50.86			41.42	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

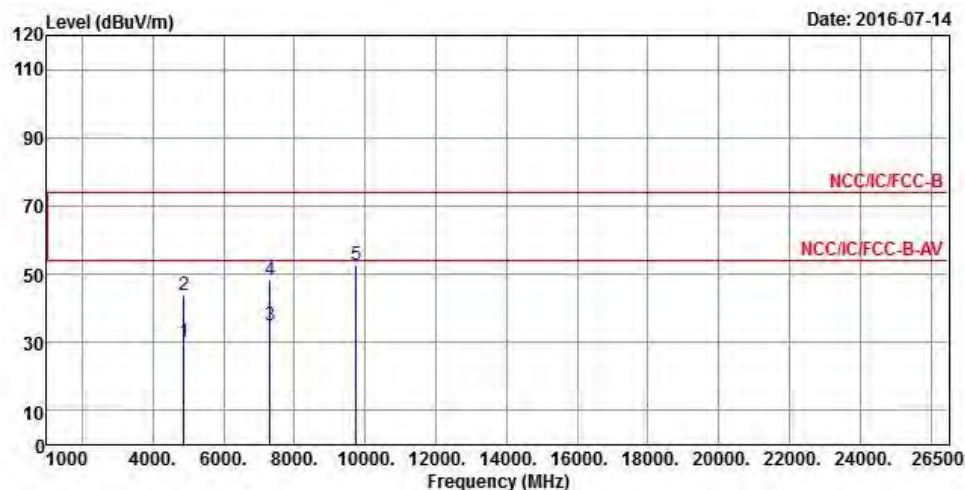
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.00 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2437
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4874.0000	30.27	-23.73	54.00	29.51	31.22	4.35	34.81 Average
2	4874.0000	43.91	-30.09	74.00	43.15	31.22	4.35	34.81 Peak
3	7311.0000	35.01	-18.99	54.00	28.80	35.88	5.40	35.07 Average
4	7311.0000	48.45	-25.55	74.00	42.24	35.88	5.40	35.07 Peak
5	9748.0000	52.68			43.24	38.70	6.13	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

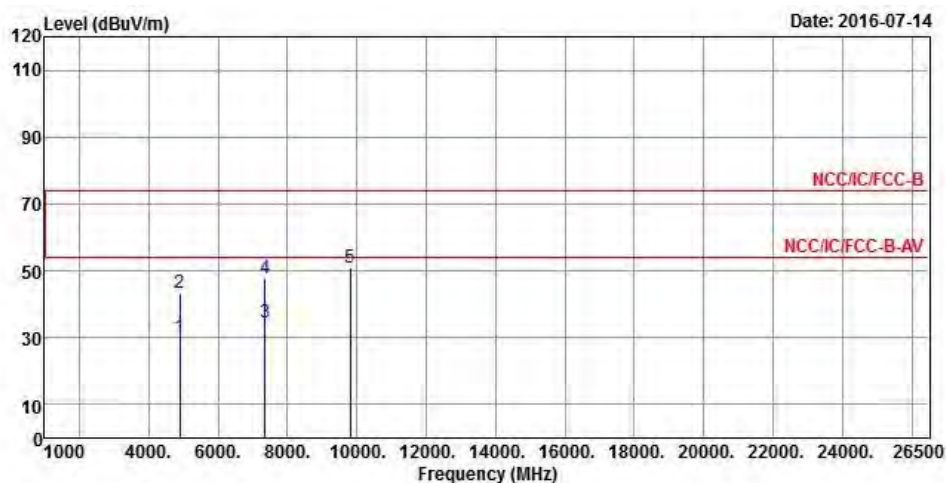
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (107.00 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2452
N_{TX}	1	Polarization	V



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4904.0000	29.94	-24.06	54.00	29.10	31.27	4.37	34.80 Average
2	4904.0000	43.61	-30.39	74.00	42.77	31.27	4.37	34.80 Peak
3	7356.0000	34.76	-19.24	54.00	28.44	35.98	5.42	35.08 Average
4	7356.0000	48.00	-26.00	74.00	41.68	35.98	5.42	35.08 Peak
5	9808.0000	51.07			41.55	38.75	6.16	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

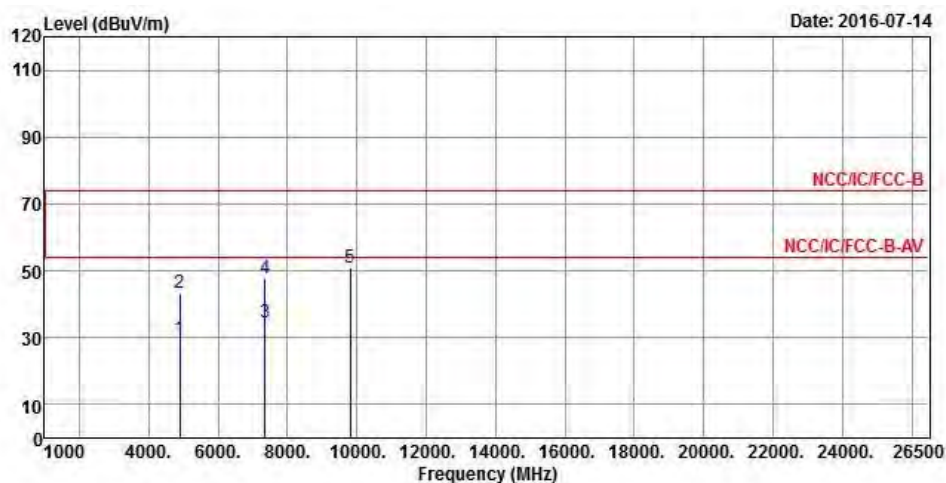
Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (102.46 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.

Transmitter Radiated Unwanted Emissions (Above 1GHz)

Modulation Mode	HT40	Test Freq. (MHz)	2452
N _{TX}	1	Polarization	H



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB
1	4904.0000	29.73	-24.27	54.00	28.89	31.27	4.37	34.80 Average
2	4904.0000	43.31	-30.69	74.00	42.47	31.27	4.37	34.80 Peak
3	7356.0000	34.42	-19.58	54.00	28.10	35.98	5.42	35.08 Average
4	7356.0000	47.61	-26.39	74.00	41.29	35.98	5.42	35.08 Peak
5	9808.0000	50.92			41.40	38.75	6.16	35.39 Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: For restricted bands, the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.

Note 5: For un-restricted bands, unwanted emissions shall be attenuated by at least 20 dB relative to the maximum measured in-band level (102.46 dBuV/m).

Note 6: No level of unwanted emissions exceeds the level of the fundamental emission.