




# FCC Test Report

**FCC ID** : SWX-RM2W  
**Equipment** : rocket M2  
**Brand Name** : UBIQUITI  
**Model Name** : RocketM2  
**Applicant** : Ubiquiti Networks, Inc.  
685 Third Avenue, 27th Floor New York,  
New York 10017 USA  
**Manufacturer** : Ubiquiti Networks, Inc.  
685 Third Avenue, 27th Floor New York,  
New York 10017 USA  
**Standard** : 47 CFR FCC Part 15.247

The product was received on May 28, 2018, and testing was started from Jun. 13, 2018 and completed on Jul. 21, 2018. . We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

  
Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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### History of this test report

Report No.	Version	Description	Issued Date
FR712408-05AC	01	Initial issue of report	Oct. 29, 2018



### Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	FCC 15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	FCC 15.207
3.2	15.247(a)	DTS Bandwidth	PASS	≥500kHz
3.3	15.247(b)	Maximum Conducted Output Power	PASS	Power [dBm]: 30
3.4	15.247(e)	Power Spectral Density	PASS	PSD [dBm/3kHz]: 8
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: FCC 15.209

Reviewed by: Jackson Tsai

Report Producer: Jenny Yang



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)
2400-2483.5	b, g, n (5M, 8M, 10M, 20M)	2412-2462
2400-2483.5	n (HT30)	2417-2457
2400-2483.5	n (HT40)	2422-2452

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b 5M	5	2TX
2.4-2.4835GHz	802.11g 5M	5	2TX
2.4-2.4835GHz	802.11n 5M	5	2TX
2.4-2.4835GHz	802.11b 8M	8	2TX
2.4-2.4835GHz	802.11g 8M	8	2TX
2.4-2.4835GHz	802.11n 8M	8	2TX
2.4-2.4835GHz	802.11b 10M	10	2TX
2.4-2.4835GHz	802.11g 10M	10	2TX
2.4-2.4835GHz	802.11n 10M	10	2TX
2.4-2.4835GHz	802.11b 20M	20	2TX
2.4-2.4835GHz	802.11g 20M	20	2TX
2.4-2.4835GHz	802.11n 20M	20	2TX
2.4-2.4835GHz	802.11n 30M	30	2TX
2.4-2.4835GHz	802.11n 40M	40	2TX

Note:

- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g and 11n use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ BWch is the nominal channel bandwidth.



1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	-	-	Dipole Antenna	Reversed-SMA	4
2	-	-	Dipole Antenna	Reversed-SMA	4
3	-	AMO-2G10	Omni Antenna	I-PEX	10
4	-	AMO-2G13	Omni Antenna	I-PEX	13
5	-	AM-V2G-Ti	Sector Antenna	I-PEX	15~17
6	-	RD-2G24	Dish Antenna	I-PEX	24

Note 1: Ant.1~5 can be used in Point to Multi, but Ant. 6 can be used in Point to Point only.

Note 2: The EUT has six antennas.

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (2TX/2RX)

Ant. 1~ Ant. 6 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
<b>EUT Power Type</b>	From PoE			
<b>EUT Function</b>	<input checked="" type="checkbox"/>	Point-to-multipoint	<input checked="" type="checkbox"/>	Point-to-point
<b>Beamforming Function</b>	<input type="checkbox"/>	With beamforming	<input checked="" type="checkbox"/>	Without beamforming
Type of EUT				
<input checked="" type="checkbox"/>	Stand-alone			
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model No.:		...	
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)			
	Host System - Brand Name / Model No.:		...	
<input type="checkbox"/>	Other:			



1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b 10M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11b 20M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11b 5M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11b 8M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g 10M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g 20M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g 5M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g 8M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n 10M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n 20M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n 30M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n 40M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n 5M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n 8M	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)

1.1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR712408-04AC

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Antenna 3 ~ 6 was added	All test items was retested.



## 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
- ◆ KDB 558074 D01 v05
- ◆ KDB 662911 D01 v02r01

## 1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
Test site Designation No. TW1190 with FCC.		
<input type="checkbox"/>	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.) TEL : 886-3-656-9065 FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.		

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Barry	25.5°C / 61%	21/Jul/2018
Radiated	03CH02-HY	Andy	22.8°C / 56.5%	20/Jul/2018
AC Conduction	CO04-HY	Kevin	22°C / 59%	13/Jun/2018

## 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))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%





## 2 Test Configuration of EUT

### 2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V



### 2.2 Test Channel Mode

Test Software Version	DoS
-----------------------	-----

### 2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	AC power-line conducted emissions
<b>Condition</b>	AC power-line conducted measurement for line and neutral
<b>Operating Mode</b>	CTX
1	PoE Mode (Antenna 4)
2	PoE Mode (Antenna 5)
3	PoE Mode (Antenna 6)

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
<b>Test Condition</b>	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests		
<b>Tests Item</b>	Emissions in Restricted Frequency Bands	
<b>Test Condition</b>	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.	
<b>Operating Mode</b>	CTX	
1	PoE Mode (Antenna 4)	
2	PoE Mode (Antenna 5)	
3	PoE Mode (Antenna 6)	
<b>Orthogonal Planes of EUT</b>	<b>X Plane</b>	<b>Y Plane</b>
		
<b>Worst Planes of EUT</b>	V	



## 2.4 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC

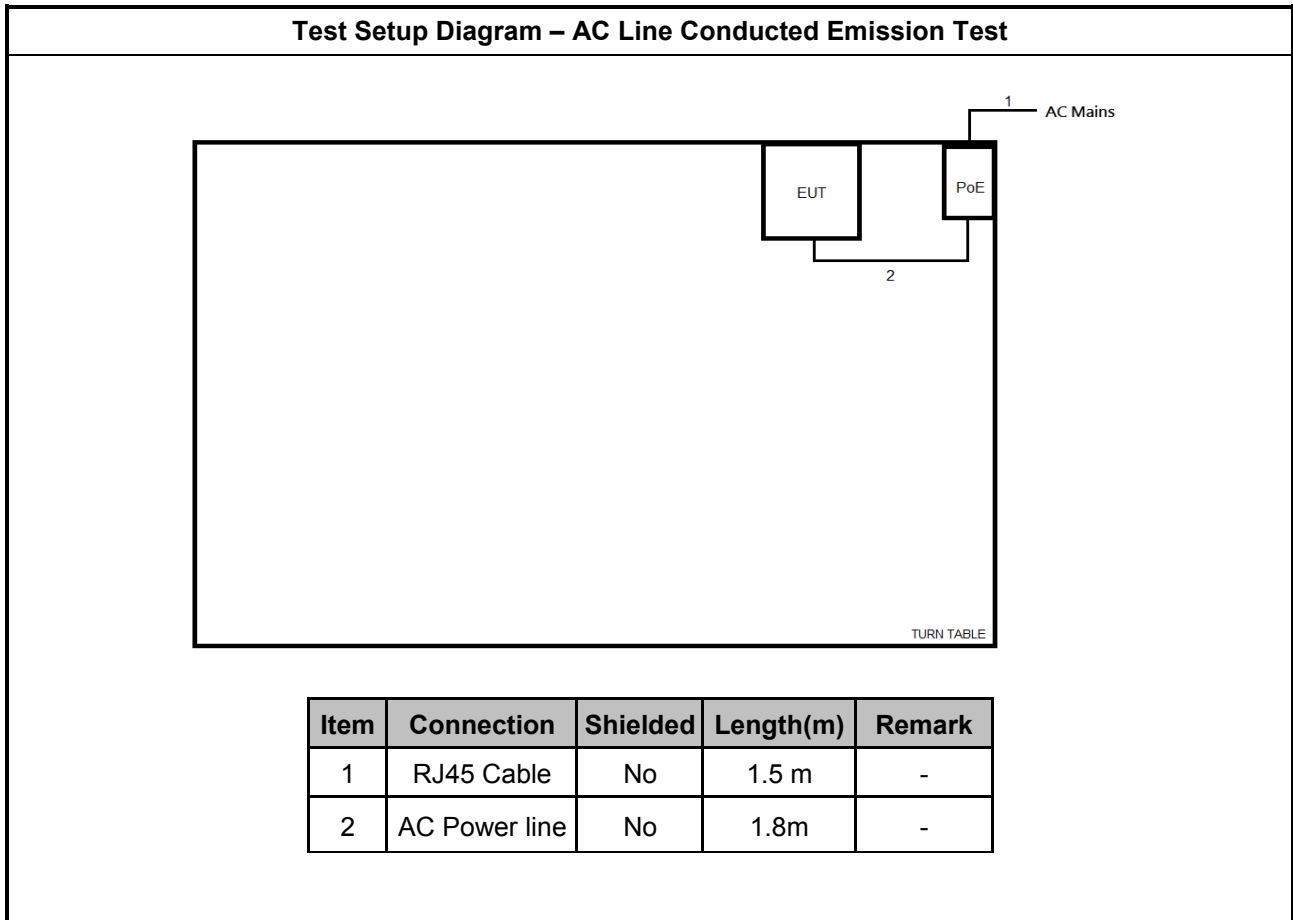
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE (remote)	UBNT	GP-A240-050G	-

Note: Support equipment No.1 was provided by customer.

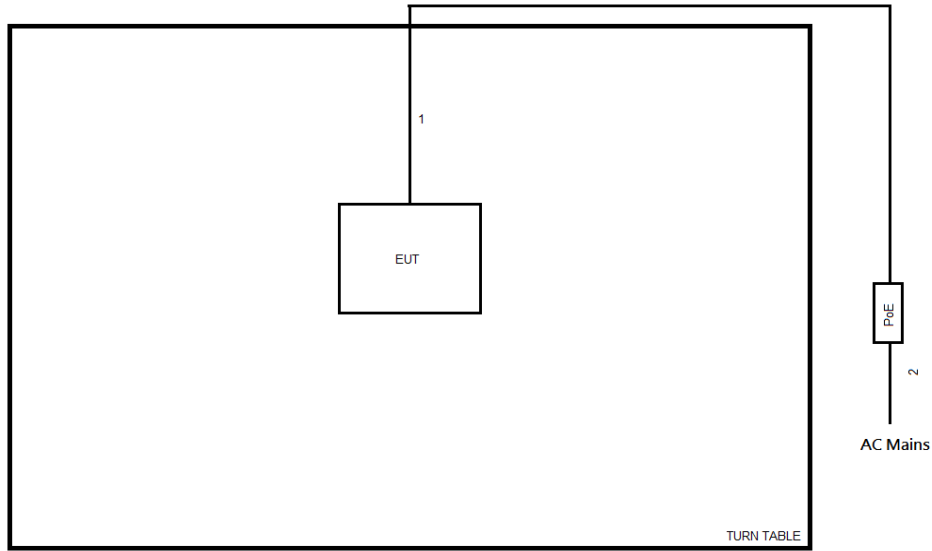
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	PoE (remote)	UBNT	GP-A240-050G	-

Note: Support equipment No.1 was provided by customer.

## 2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	RJ45 Cable	No	10 m	-
2	AC Power line	No	1.8m	-

### 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.

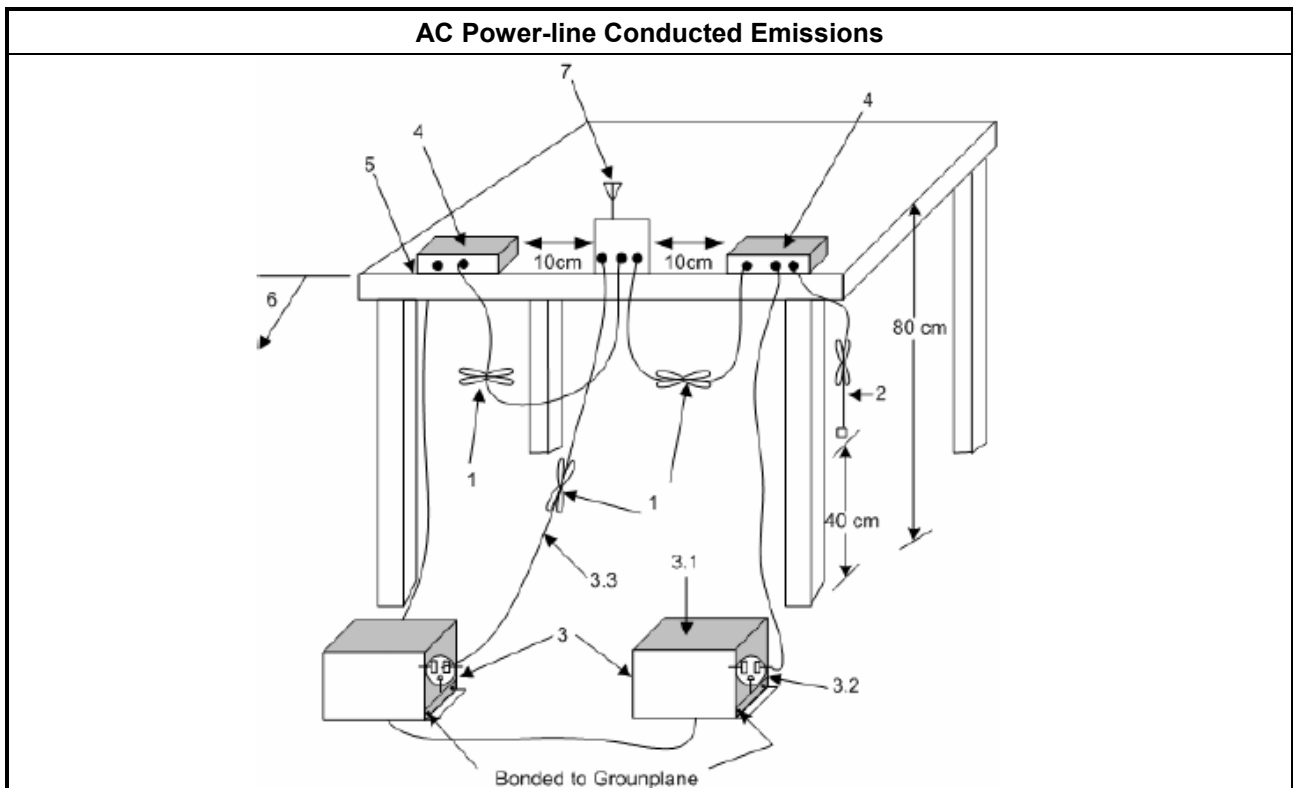
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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 A

### 3.2 DTS Bandwidth

#### 3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
<b>Systems using digital modulation techniques:</b>
<ul style="list-style-type: none"> <li>▪ 6 dB bandwidth <math>\geq</math> 500 kHz.</li> </ul>

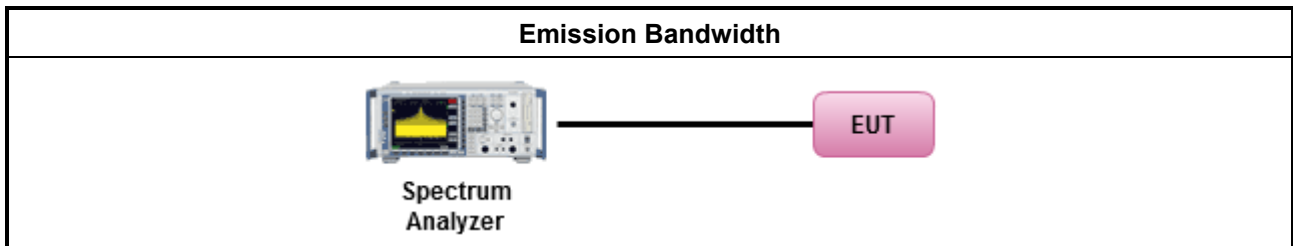
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ For the emission bandwidth shall be measured using one of the options below:</li> </ul>	
<input checked="" type="checkbox"/>	Refer as KDB 558074. clause 8.2 (11.9.2.2 of ANSI C63.10) DTS bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

### 3.3 Maximum Conducted Output Power

#### 3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> <li>▪ If <math>G_{TX} \leq 6</math> dBi, then <math>P_{Out} \leq 30</math> dBm (1 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS):</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)/3 + 8</math> dB dBm</li> </ul>
e.i.r.p. Power Limit:	
	<ul style="list-style-type: none"> <li>▪ 2400-2483.5 MHz Band</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): <math>P_{eirp} \leq 36</math> dBm (4 W)</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Point-to-point systems (P2P): <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Smart antenna system (SAS)</li> </ul>
	<ul style="list-style-type: none"> <li>- Single beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Overlap beam: <math>P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})</math> dBm</li> </ul>
	<ul style="list-style-type: none"> <li>- Aggregate power on all beams: <math>P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])</math> dBm</li> </ul>
<p><math>P_{Out}</math> = maximum peak conducted output power or maximum conducted output power in dBm,  <math>G_{TX}</math> = the maximum transmitting antenna directional gain in dBi.</p>	

#### 3.3.2 Measuring Instruments

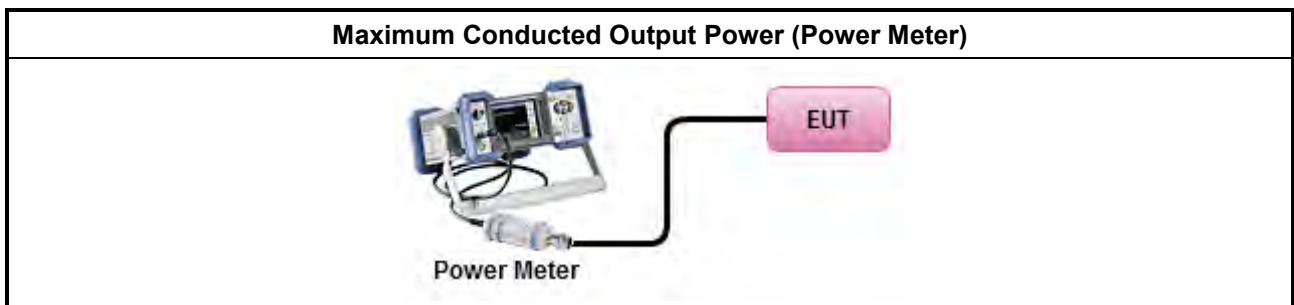
Refer a test equipment and calibration data table in this test report.



### 3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ Maximum Peak Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
<ul style="list-style-type: none"> <li>▪ Maximum Average Conducted Output Power</li> </ul>	
<input type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
<ul style="list-style-type: none"> <li>▪ For conducted measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If the EUT supports multiple transmit chains using options given below: Refer as 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.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ If multiple transmit chains, EIRP calculation could be following as methods:  <math display="block">P_{total} = P_1 + P_2 + \dots + P_n</math>                     (calculated in linear unit [mW] and transfer to log unit [dBm])  <math display="block">EIRP_{total} = P_{total} + DG</math> </li> </ul>	

### 3.3.4 Test Setup



### 3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

### 3.4 Power Spectral Density

#### 3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> <li>Power Spectral Density (PSD) <math>\leq</math> 8 dBm/3kHz</li> </ul>

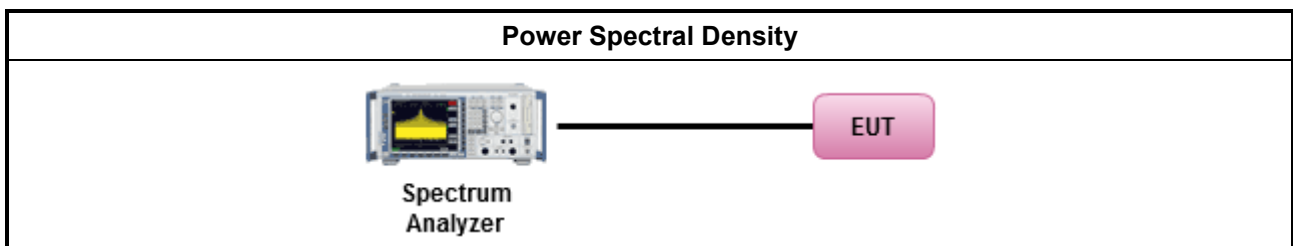
#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>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).</li> </ul>
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
<ul style="list-style-type: none"> <li>For conducted measurement.</li> </ul>
<ul style="list-style-type: none"> <li>If The EUT supports multiple transmit chains using options given below:             <ul style="list-style-type: none"> <li>Measure and sum the spectra across the outputs. Refer as 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 NTX 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.</li> </ul> </li> </ul>

#### 3.4.4 Test Setup



#### 3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

### 3.5 Emissions in Non-restricted Frequency Bands

#### 3.5.1 Emissions in Non-restricted Frequency Bands Limit

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.

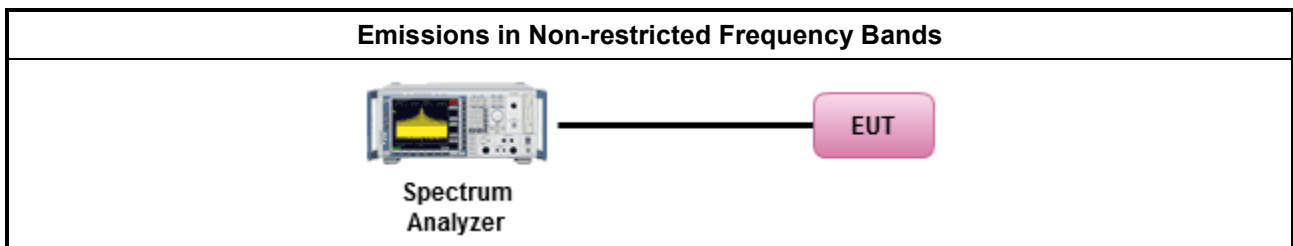
#### 3.5.2 Measuring Instruments

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

#### 3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.</li> </ul>

#### 3.5.4 Test Setup



#### 3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



### 3.6 Emissions in Restricted Frequency Bands

#### 3.6.1 Emissions in Restricted Frequency Bands 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.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

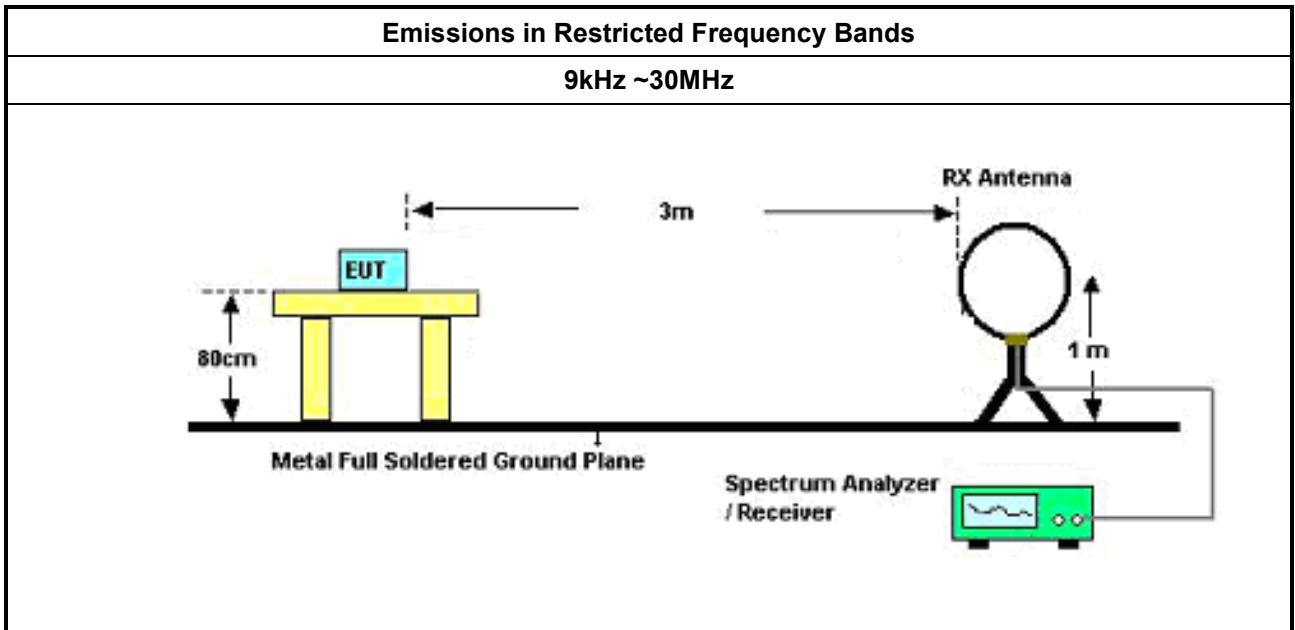
#### 3.6.2 Measuring Instruments

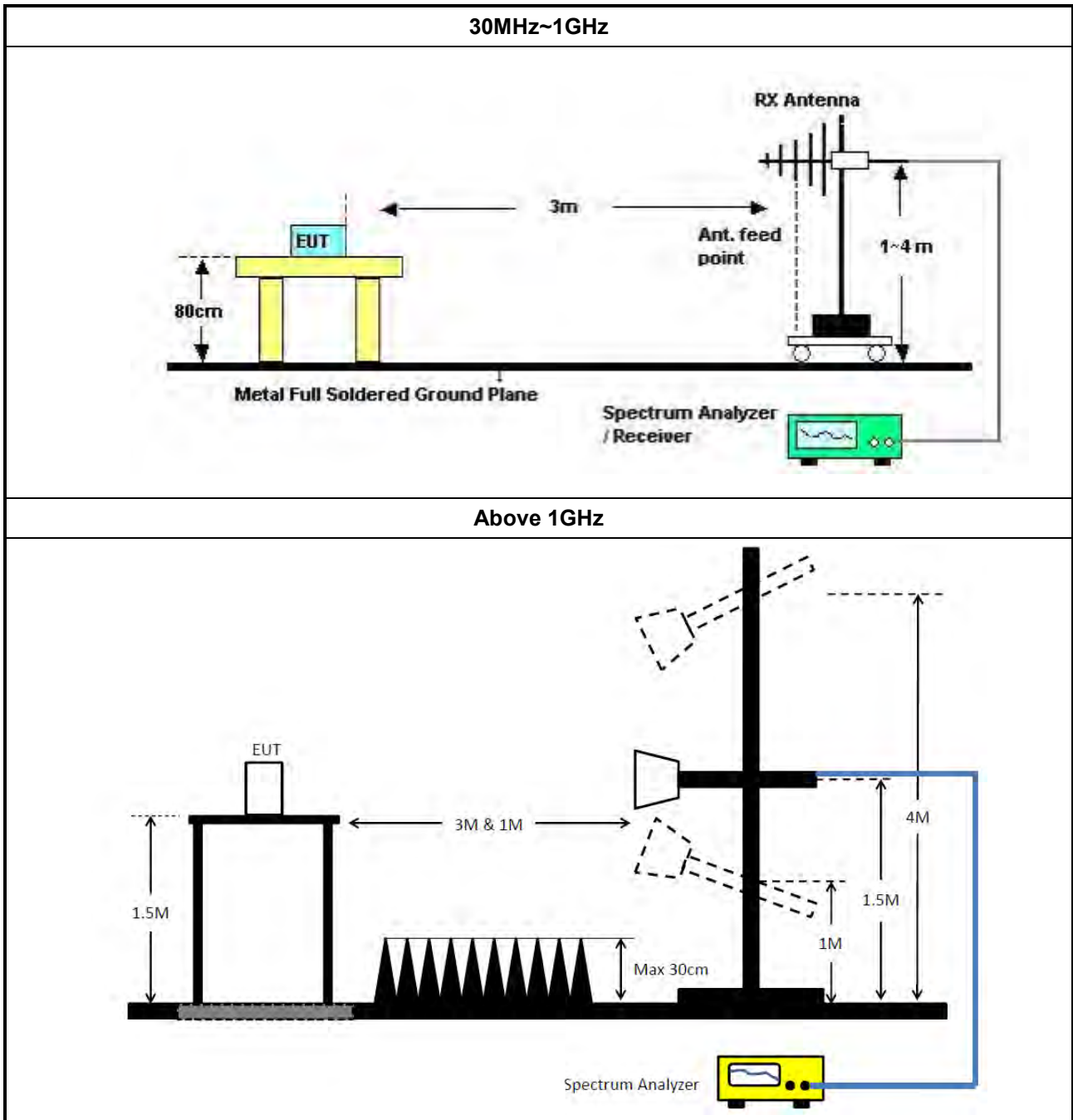
Refer a test equipment and calibration data table in this test report.

### 3.6.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> <li>The average emission levels shall be measured in [duty cycle <math>\geq</math> 98 or duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.</li> </ul>
	<ul style="list-style-type: none"> <li>For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.</li> </ul>
	<ul style="list-style-type: none"> <li>For the transmitter band-edge emissions shall be measured using following options below:</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.</li> </ul>
	<ul style="list-style-type: none"> <li>Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).</li> </ul>

### 3.6.4 Test Setup





### 3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

### 3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



## 4 Test Equipment and Calibration Data

### Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+ SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

### Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	20/Oct/2017	19/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	27/Oct/2017	26/Oct/2018
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	31/Aug/2017	30/Aug/2018
Amplifier	Agilent	8447D	2944A08290	100kHz ~ 1.3GHz	30Aug/2017	29Aug/2018
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	28/Sep/2017	27/Sep/2018
Spectrum Analyzer	Rohde & Schwarz	FSP40	100593	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	09/Sep/2017	08/Sep/2018
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019



Instrument for Conducted Test

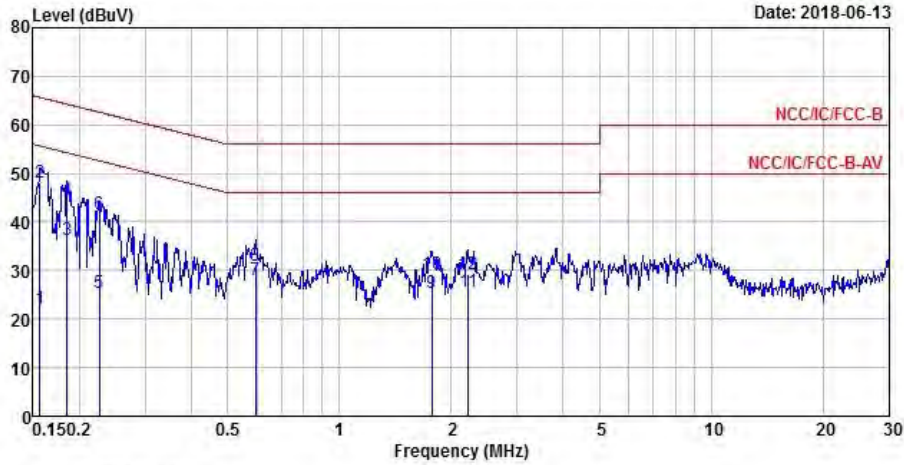
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	29/Dec/2017	28/Dec/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12583/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10712/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
Power Sensor	Agilent	U2021XA	MY54320011	50MHz~18GHz	17/Aug/2017	16/Aug/2018
Power Sensor	Agilent	U2021XA	MY54320013	50MHz~18GHz	17/Aug/2017	16/Aug/2018





AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode(Antenna 4)		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	22.23	-33.42	55.65	12.56	9.63	0.04	Average
2	0.16	48.11	-17.54	65.65	38.44	9.63	0.04	MAX QP
3	0.19	36.41	-17.83	54.24	26.78	9.62	0.01	Average
4	0.19	44.60	-19.64	64.24	34.97	9.62	0.01	QP
5	0.23	25.52	-27.09	52.61	15.88	9.62	0.02	Average
6	0.23	41.74	-20.87	62.61	32.10	9.62	0.02	QP
7	0.59	28.14	-17.86	46.00	18.47	9.61	0.06	Average
8	0.59	31.04	-24.96	56.00	21.37	9.61	0.06	QP
9	1.77	25.29	-20.71	46.00	15.66	9.63	0.00	Average
10	1.77	29.34	-26.66	56.00	19.71	9.63	0.00	QP
11	2.22	25.76	-20.24	46.00	16.12	9.63	0.01	Average
12	2.22	29.08	-26.92	56.00	19.44	9.63	0.01	QP

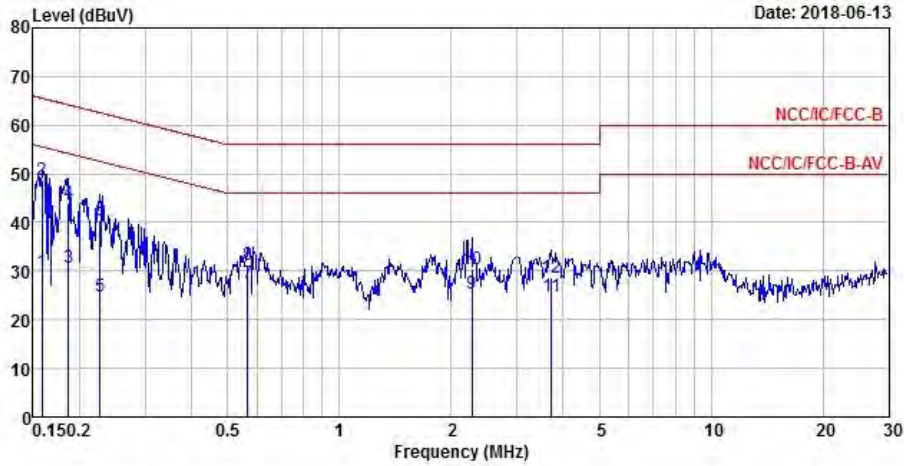
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.  
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)



AC Power-line Conducted Emissions Result																																																																																																																																										
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Date: 2018-06-13																																																																																																																																										
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AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	PoE Mode(Antenna 5)		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	29.69	-25.87	55.56	20.03	9.63	0.03	Average
2	0.16	48.60	-16.96	65.56	38.94	9.63	0.03	QP
3	0.19	30.61	-23.59	54.20	20.98	9.62	0.01	Average
4	0.19	44.08	-20.12	64.20	34.45	9.62	0.01	QP
5	0.23	24.70	-27.87	52.57	15.06	9.62	0.02	Average
6	0.23	40.37	-22.20	62.57	30.73	9.62	0.02	QP
7	0.57	27.36	-18.64	46.00	17.69	9.61	0.06	Average
8	0.57	31.36	-24.64	56.00	21.69	9.61	0.06	QP
9	2.27	25.34	-20.66	46.00	15.69	9.63	0.02	Average
10	2.27	30.28	-25.72	56.00	20.63	9.63	0.02	QP
11	3.72	24.88	-21.12	46.00	15.16	9.64	0.08	Average
12	3.72	28.74	-27.26	56.00	19.02	9.64	0.08	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.)

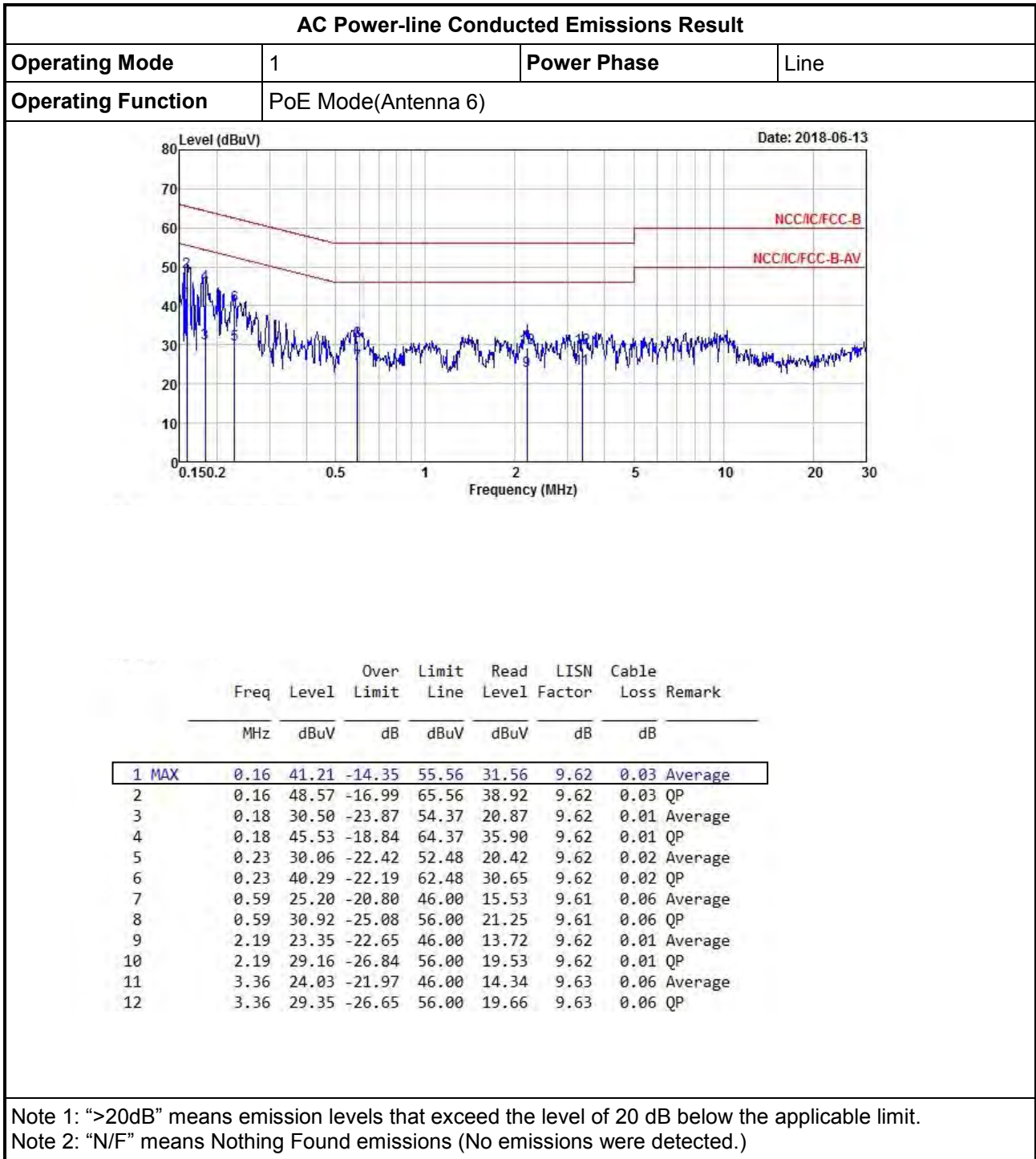


AC Power-line Conducted Emissions Result																																																																																																																																										
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<div style="text-align: right;">Date: 2018-06-13</div> <p>The graph displays the AC power-line conducted emissions. The y-axis represents the level in dBUV, ranging from 0 to 80. The x-axis represents the frequency in MHz, ranging from 0.150.2 to 30. Two red lines indicate the applicable limits: NCC/IC/FCC-B (upper) and NCC/IC/FCC-B-AV (lower). The blue line represents the measured emission level, which generally stays below the NCC/IC/FCC-B-AV limit, with a notable peak at 0.16 MHz labeled '2 MAX'.</p>																																																																																																																																										
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4	0.18	45.20	-19.08	64.28	35.57	9.62	0.01	QP																																																																																																																																		
5	0.23	30.17	-22.31	52.48	20.53	9.62	0.02	Average																																																																																																																																		
6	0.23	40.13	-22.35	62.48	30.49	9.62	0.02	QP																																																																																																																																		
7	0.54	24.22	-21.78	46.00	14.54	9.61	0.07	Average																																																																																																																																		
8	0.54	28.94	-27.06	56.00	19.26	9.61	0.07	QP																																																																																																																																		
9	1.43	23.15	-22.85	46.00	13.53	9.62	0.00	Average																																																																																																																																		
10	1.43	28.37	-27.63	56.00	18.75	9.62	0.00	QP																																																																																																																																		
11	2.20	18.47	-27.53	46.00	8.84	9.62	0.01	Average																																																																																																																																		
12	2.20	29.29	-26.71	56.00	19.66	9.62	0.01	QP																																																																																																																																		
<p>Note 1: "&gt;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.)</p>																																																																																																																																										





AC Power-line Conducted Emissions Result																																																																																																																																	
Operating Mode	1	Power Phase	Neutral																																																																																																																														
Operating Function	PoE Mode(Antenna 6)																																																																																																																																
<div style="display: flex; justify-content: space-between;"> <span>Level (dBuV)</span> <span>Date: 2018-06-13</span> </div> <div style="display: flex; justify-content: space-between;"> <span>0.150.2</span> <span>0.5</span> <span>1</span> <span>2</span> <span>5</span> <span>10</span> <span>20</span> <span>30</span> </div> <div style="display: flex; justify-content: center;"> <span>Frequency (MHz)</span> </div>																																																																																																																																	
<table border="1" style="width:100%; border-collapse: collapse; margin-top: 20px;"> <thead> <tr> <th></th> <th>Freq</th> <th>Level</th> <th>Over Limit</th> <th>Limit Line</th> <th>Read Level</th> <th>LISN Factor</th> <th>Cable Loss</th> <th>Remark</th> </tr> <tr> <th></th> <th>MHz</th> <th>dBuV</th> <th>dB</th> <th>dBuV</th> <th>dBuV</th> <th>dB</th> <th>dB</th> <th></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.16</td> <td>33.98</td> <td>-21.54</td> <td>55.52</td> <td>24.32</td> <td>9.63</td> <td>0.03</td> <td>Average</td> </tr> <tr> <td>2</td> <td>0.16</td> <td>48.68</td> <td>-16.84</td> <td>65.52</td> <td>39.02</td> <td>9.63</td> <td>0.03</td> <td>MAX QP</td> </tr> <tr> <td>3</td> <td>0.19</td> <td>36.19</td> <td>-18.05</td> <td>54.24</td> <td>26.56</td> <td>9.62</td> <td>0.01</td> <td>Average</td> </tr> <tr> <td>4</td> <td>0.19</td> <td>44.90</td> <td>-19.34</td> <td>64.24</td> <td>35.27</td> <td>9.62</td> <td>0.01</td> <td>QP</td> </tr> <tr> <td>5</td> <td>0.23</td> <td>25.74</td> <td>-26.74</td> <td>52.48</td> <td>16.10</td> <td>9.62</td> <td>0.02</td> <td>Average</td> </tr> <tr> <td>6</td> <td>0.23</td> <td>40.71</td> <td>-21.77</td> <td>62.48</td> <td>31.07</td> <td>9.62</td> <td>0.02</td> <td>QP</td> </tr> <tr> <td>7</td> <td>0.59</td> <td>27.64</td> <td>-18.36</td> <td>46.00</td> <td>17.97</td> <td>9.61</td> <td>0.06</td> <td>Average</td> </tr> <tr> <td>8</td> <td>0.59</td> <td>30.90</td> <td>-25.10</td> <td>56.00</td> <td>21.23</td> <td>9.61</td> <td>0.06</td> <td>QP</td> </tr> <tr> <td>9</td> <td>2.21</td> <td>26.38</td> <td>-19.62</td> <td>46.00</td> <td>16.74</td> <td>9.63</td> <td>0.01</td> <td>Average</td> </tr> <tr> <td>10</td> <td>2.21</td> <td>31.55</td> <td>-24.45</td> <td>56.00</td> <td>21.91</td> <td>9.63</td> <td>0.01</td> <td>QP</td> </tr> <tr> <td>11</td> <td>4.14</td> <td>21.19</td> <td>-24.81</td> <td>46.00</td> <td>11.46</td> <td>9.64</td> <td>0.09</td> <td>Average</td> </tr> <tr> <td>12</td> <td>4.14</td> <td>28.43</td> <td>-27.57</td> <td>56.00</td> <td>18.70</td> <td>9.64</td> <td>0.09</td> <td>QP</td> </tr> </tbody> </table>					Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark		MHz	dBuV	dB	dBuV	dBuV	dB	dB		1	0.16	33.98	-21.54	55.52	24.32	9.63	0.03	Average	2	0.16	48.68	-16.84	65.52	39.02	9.63	0.03	MAX QP	3	0.19	36.19	-18.05	54.24	26.56	9.62	0.01	Average	4	0.19	44.90	-19.34	64.24	35.27	9.62	0.01	QP	5	0.23	25.74	-26.74	52.48	16.10	9.62	0.02	Average	6	0.23	40.71	-21.77	62.48	31.07	9.62	0.02	QP	7	0.59	27.64	-18.36	46.00	17.97	9.61	0.06	Average	8	0.59	30.90	-25.10	56.00	21.23	9.61	0.06	QP	9	2.21	26.38	-19.62	46.00	16.74	9.63	0.01	Average	10	2.21	31.55	-24.45	56.00	21.91	9.63	0.01	QP	11	4.14	21.19	-24.81	46.00	11.46	9.64	0.09	Average	12	4.14	28.43	-27.57	56.00	18.70	9.64	0.09	QP
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**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
11b-5M_Nss1,(1Mbps)_2TX	2.569M	3.498M	3M50G1D	2.569M	3.492M
11b-8M_Nss1,(1Mbps)_2TX	4.05M	5.547M	5M55G1D	4.04M	5.517M
11b-10M_Nss1,(1Mbps)_2TX	5.075M	6.959M	6M96G1D	5.063M	6.909M
11b-20M_Nss1,(1Mbps)_2TX	10.05M	13.918M	13M9G1D	9.55M	13.843M
11g-5M_Nss1,(6Mbps)_2TX	4.144M	4.135M	4M14D1D	4.106M	4.123M
11g-8M_Nss1,(6Mbps)_2TX	6.55M	6.557M	6M56D1D	6.53M	6.547M
11g-10M_Nss1,(6Mbps)_2TX	8.225M	8.221M	8M22D1D	8.2M	8.208M
11g-20M_Nss1,(6Mbps)_2TX	16.525M	16.592M	16M6D1D	16.475M	16.542M
HT5_Nss1,(MCS0)_2TX	4.45M	4.435M	4M44D1D	4.431M	4.423M
HT8_Nss1,(MCS0)_2TX	7.05M	7.036M	7M04D1D	7M	7.026M
HT10_Nss1,(MCS0)_2TX	8.838M	8.821M	8M82D1D	8.838M	8.796M
802.11n HT20_Nss1,(MCS0)_2TX	17.8M	17.766M	17M8D1D	17.675M	17.716M
HT30_Nss1,(MCS0)_2TX	26.7M	26.724M	26M7D1D	26.513M	26.537M
802.11n HT40_Nss1,(MCS0)_2TX	36.6M	36.532M	36M5D1D	36.45M	36.432M

**Max-N dB** = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

**Result**

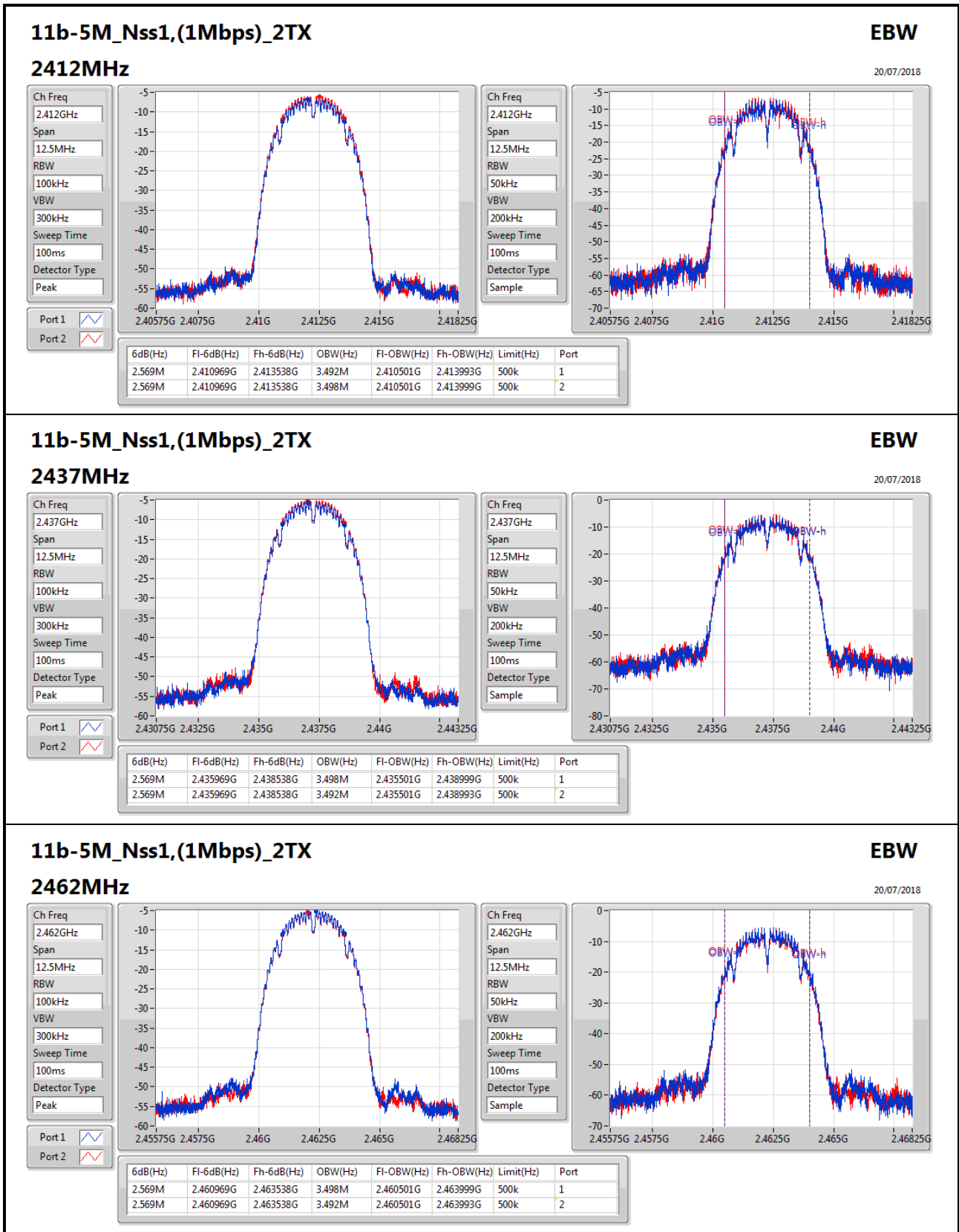
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	2.569M	3.492M	2.569M	3.498M
2437MHz_TnomVnom	Pass	500k	2.569M	3.498M	2.569M	3.492M
2462MHz_TnomVnom	Pass	500k	2.569M	3.498M	2.569M	3.492M
11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	4.05M	5.527M	4.05M	5.527M
2437MHz_TnomVnom	Pass	500k	4.04M	5.547M	4.04M	5.517M
2462MHz_TnomVnom	Pass	500k	4.05M	5.547M	4.04M	5.517M
11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	5.063M	6.934M	5.063M	6.909M
2437MHz_TnomVnom	Pass	500k	5.075M	6.947M	5.075M	6.909M
2462MHz_TnomVnom	Pass	500k	5.075M	6.934M	5.075M	6.959M
11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	9.55M	13.843M	10.05M	13.893M
2437MHz_TnomVnom	Pass	500k	10.025M	13.893M	10.025M	13.918M
2462MHz_TnomVnom	Pass	500k	10.05M	13.918M	9.55M	13.843M
11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	4.106M	4.129M	4.106M	4.123M
2437MHz_TnomVnom	Pass	500k	4.144M	4.135M	4.125M	4.129M
2462MHz_TnomVnom	Pass	500k	4.144M	4.129M	4.131M	4.123M
11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	6.55M	6.547M	6.53M	6.557M
2437MHz_TnomVnom	Pass	500k	6.53M	6.557M	6.55M	6.557M
2462MHz_TnomVnom	Pass	500k	6.55M	6.557M	6.54M	6.557M

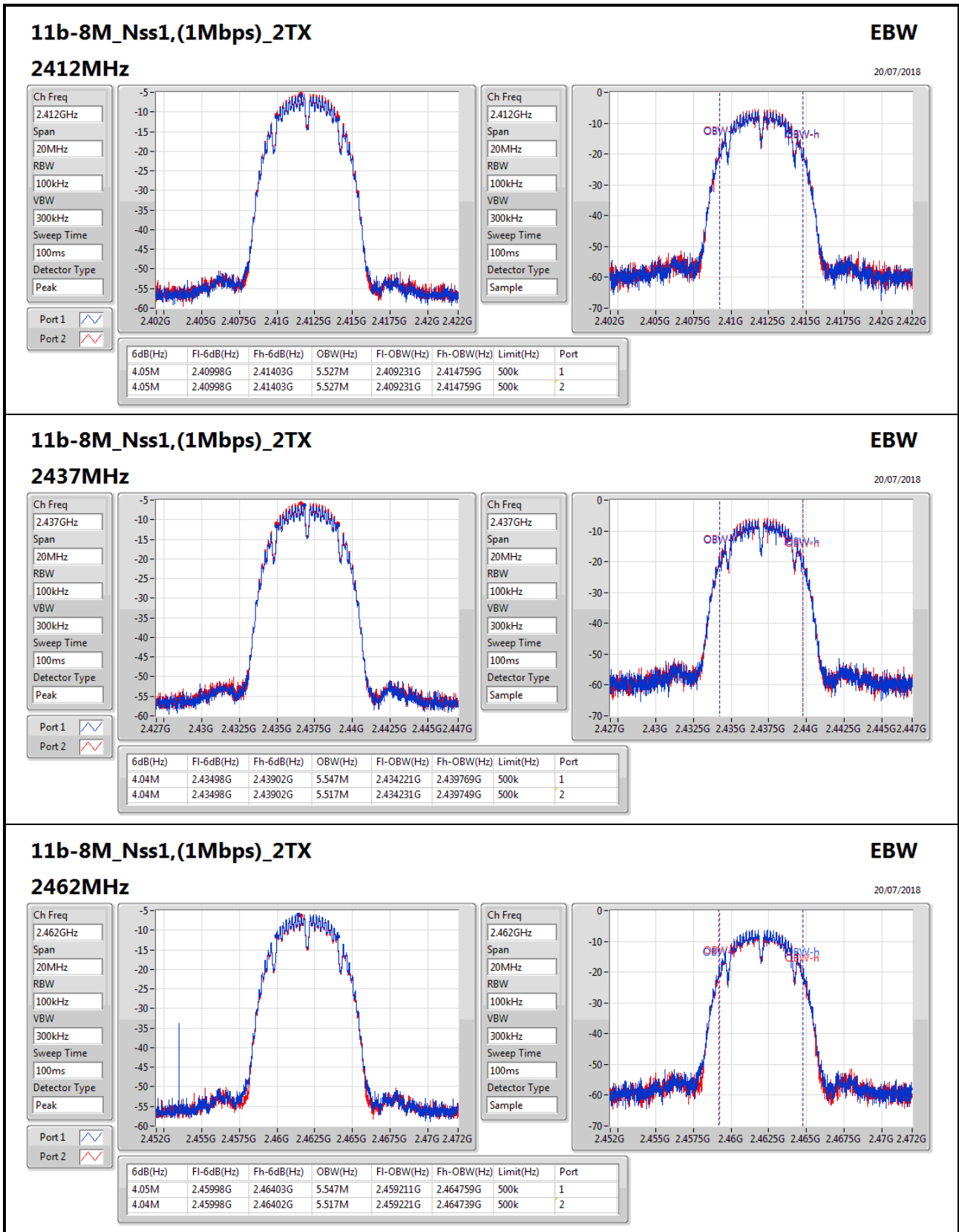


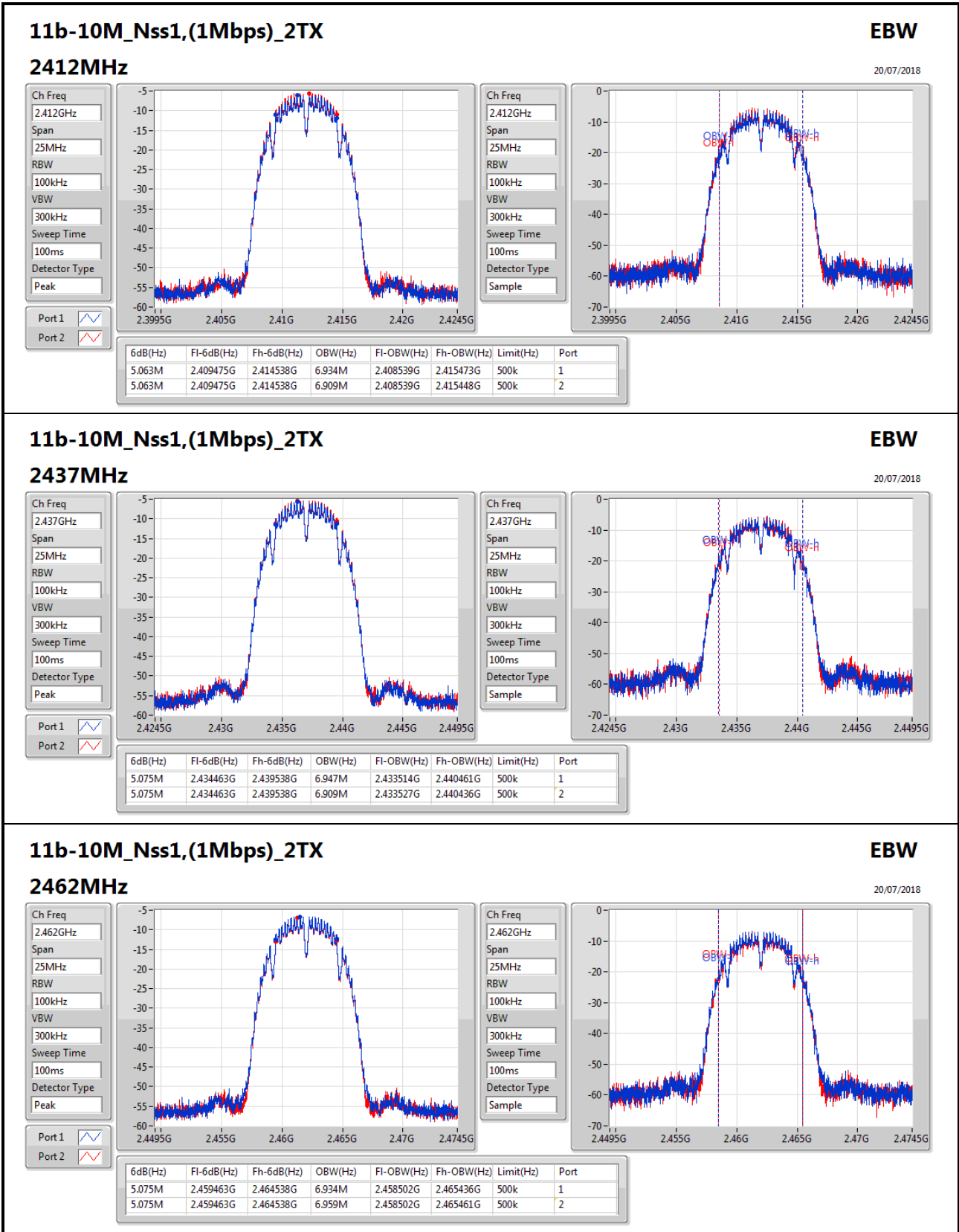
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	8.213M	8.208M	8.213M	8.221M
2437MHz_TnomVnom	Pass	500k	8.213M	8.221M	8.2M	8.221M
2462MHz_TnomVnom	Pass	500k	8.225M	8.208M	8.213M	8.208M
11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.475M	16.567M	16.5M	16.542M
2437MHz_TnomVnom	Pass	500k	16.525M	16.542M	16.5M	16.592M
2462MHz_TnomVnom	Pass	500k	16.5M	16.542M	16.475M	16.542M
HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	4.45M	4.429M	4.431M	4.429M
2437MHz_TnomVnom	Pass	500k	4.431M	4.435M	4.438M	4.423M
2462MHz_TnomVnom	Pass	500k	4.438M	4.423M	4.431M	4.429M
HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	7.05M	7.036M	7.04M	7.026M
2437MHz_TnomVnom	Pass	500k	7.04M	7.026M	7M	7.036M
2462MHz_TnomVnom	Pass	500k	7.05M	7.026M	7.01M	7.036M
HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	8.838M	8.808M	8.838M	8.808M
2437MHz_TnomVnom	Pass	500k	8.838M	8.821M	8.838M	8.796M
2462MHz_TnomVnom	Pass	500k	8.838M	8.821M	8.838M	8.796M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.8M	17.741M	17.775M	17.716M
2437MHz_TnomVnom	Pass	500k	17.7M	17.766M	17.7M	17.741M
2462MHz_TnomVnom	Pass	500k	17.725M	17.741M	17.675M	17.716M
HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz_TnomVnom	Pass	500k	26.663M	26.649M	26.625M	26.649M
2437MHz_TnomVnom	Pass	500k	26.588M	26.612M	26.513M	26.649M
2457MHz_TnomVnom	Pass	500k	26.7M	26.724M	26.55M	26.537M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	36.6M	36.482M	36.45M	36.532M
2437MHz_TnomVnom	Pass	500k	36.5M	36.482M	36.55M	36.532M
2452MHz_TnomVnom	Pass	500k	36.55M	36.532M	36.5M	36.432M

**Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;**








**11b-10M\_Nss1,(1Mbps)\_2TX**
**EBW**

20/07/2018

**2462MHz**

Ch Freq: 2.462GHz

Span: 25MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.462GHz

Span: 25MHz

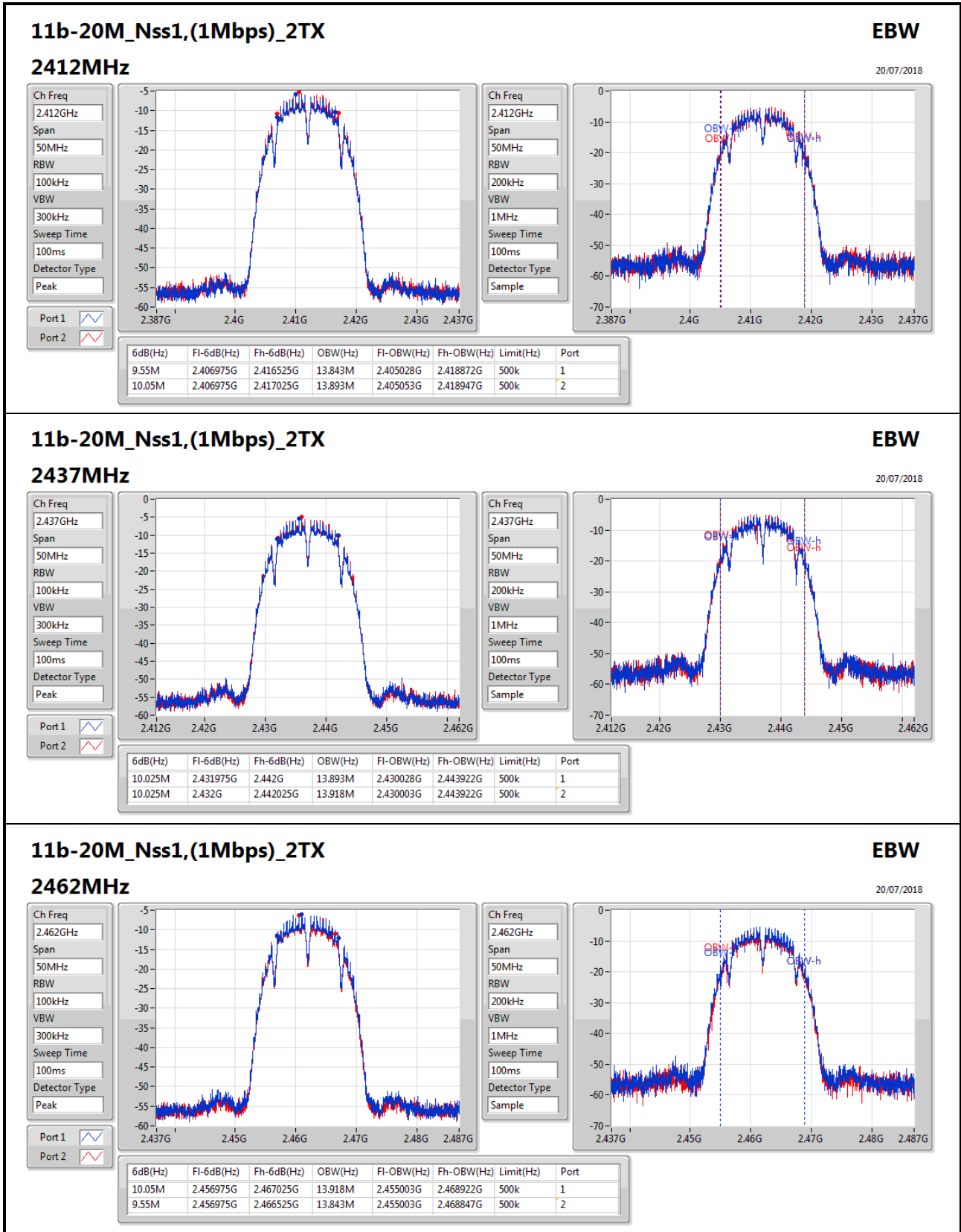
RBW: 100kHz

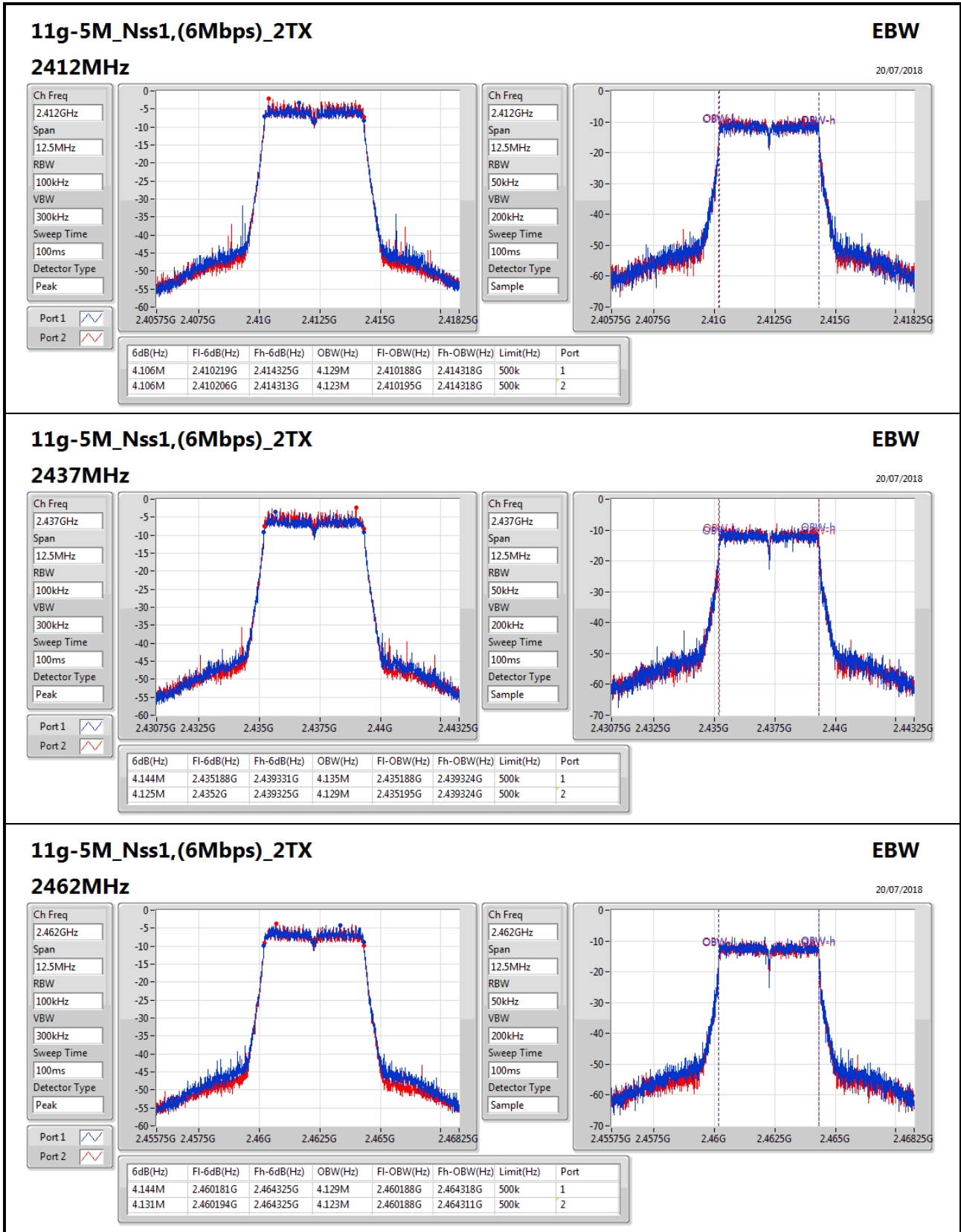
VBW: 300kHz

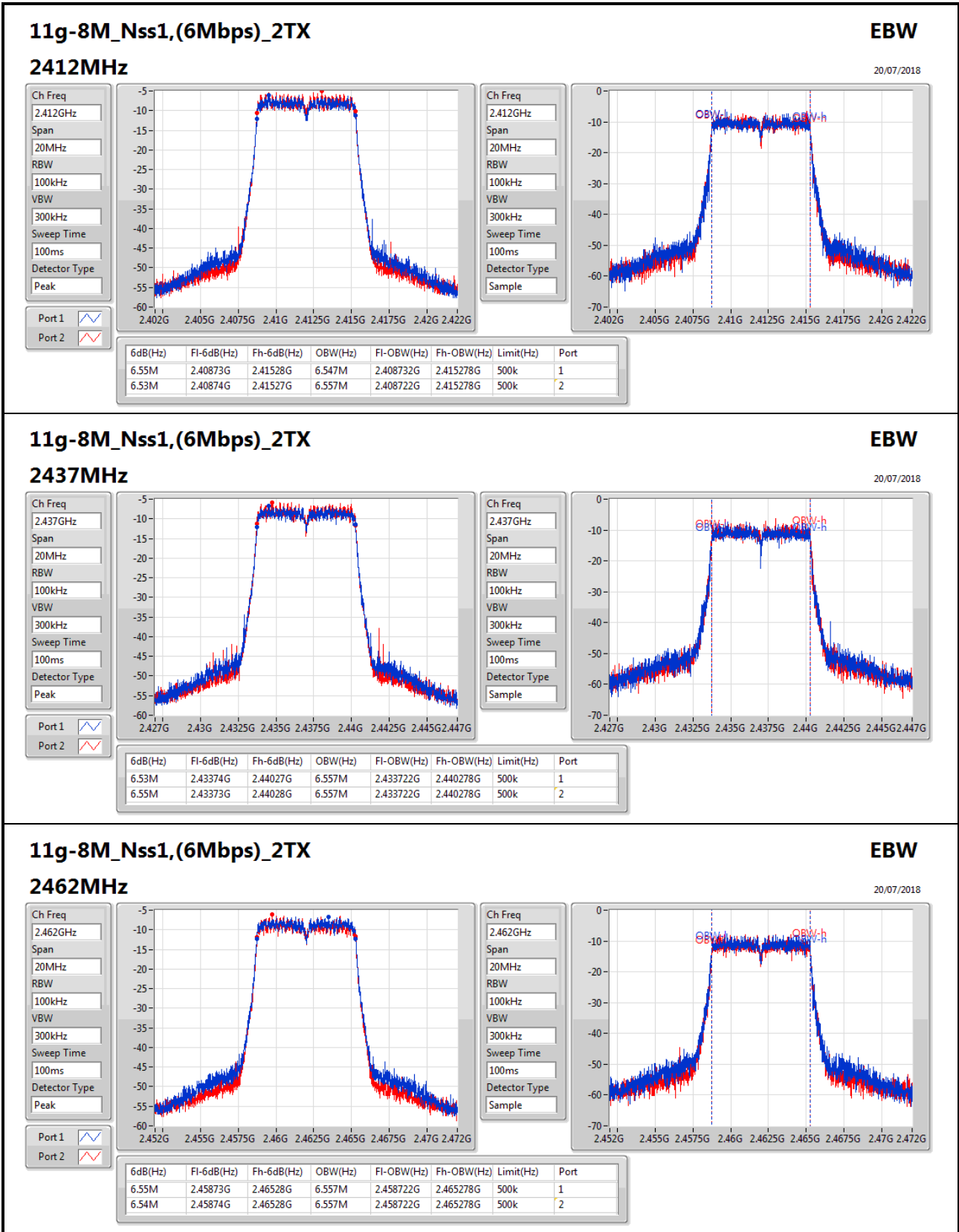
Sweep Time: 100ms

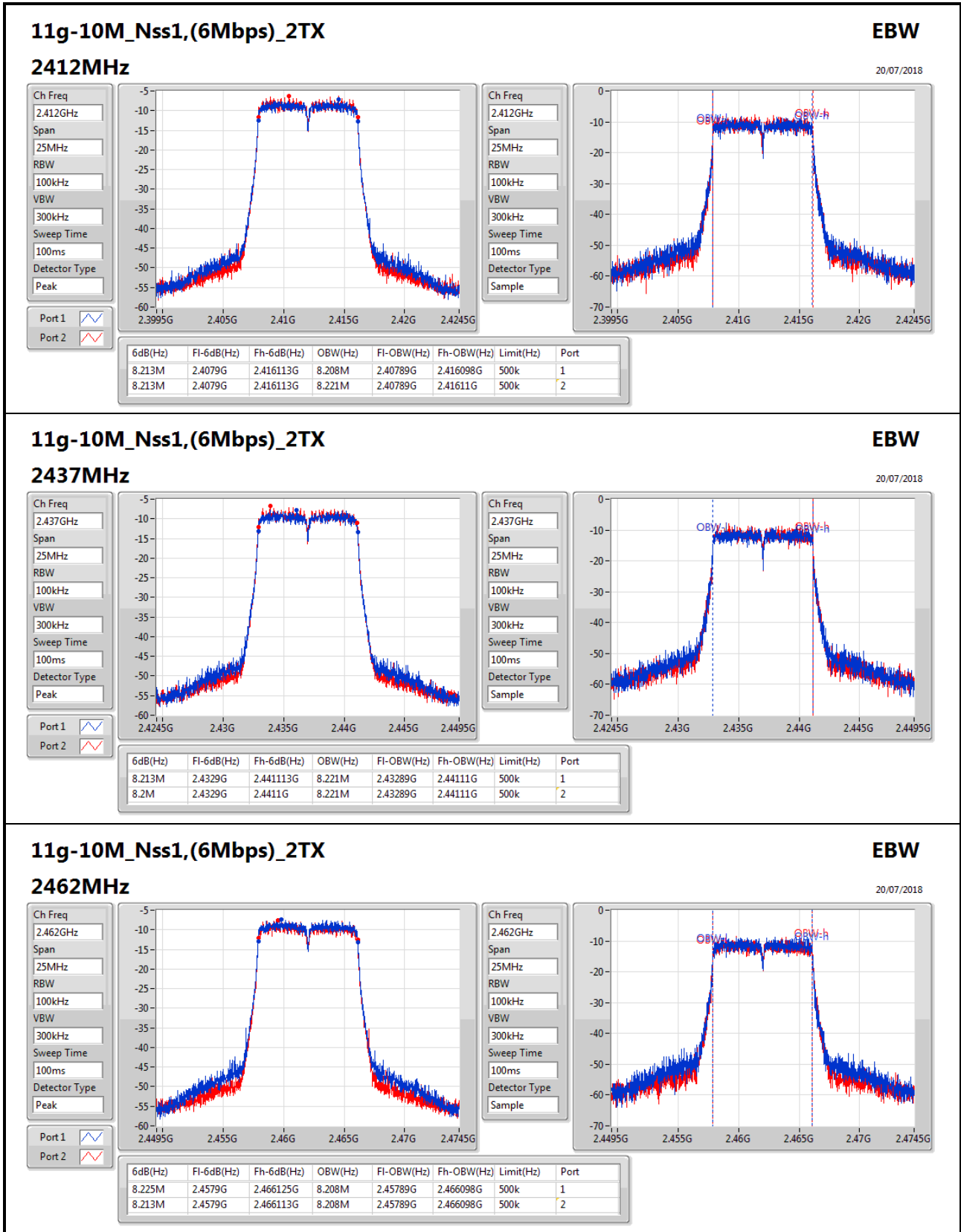
Detector Type: Sample

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
5.075M	2.459463G	2.464538G	6.934M	2.458502G	2.465436G	500k	1
5.075M	2.459463G	2.464538G	6.959M	2.458502G	2.465461G	500k	2









### 11g-10M\_Nss1,(6Mbps)\_2TX

#### 2462MHz

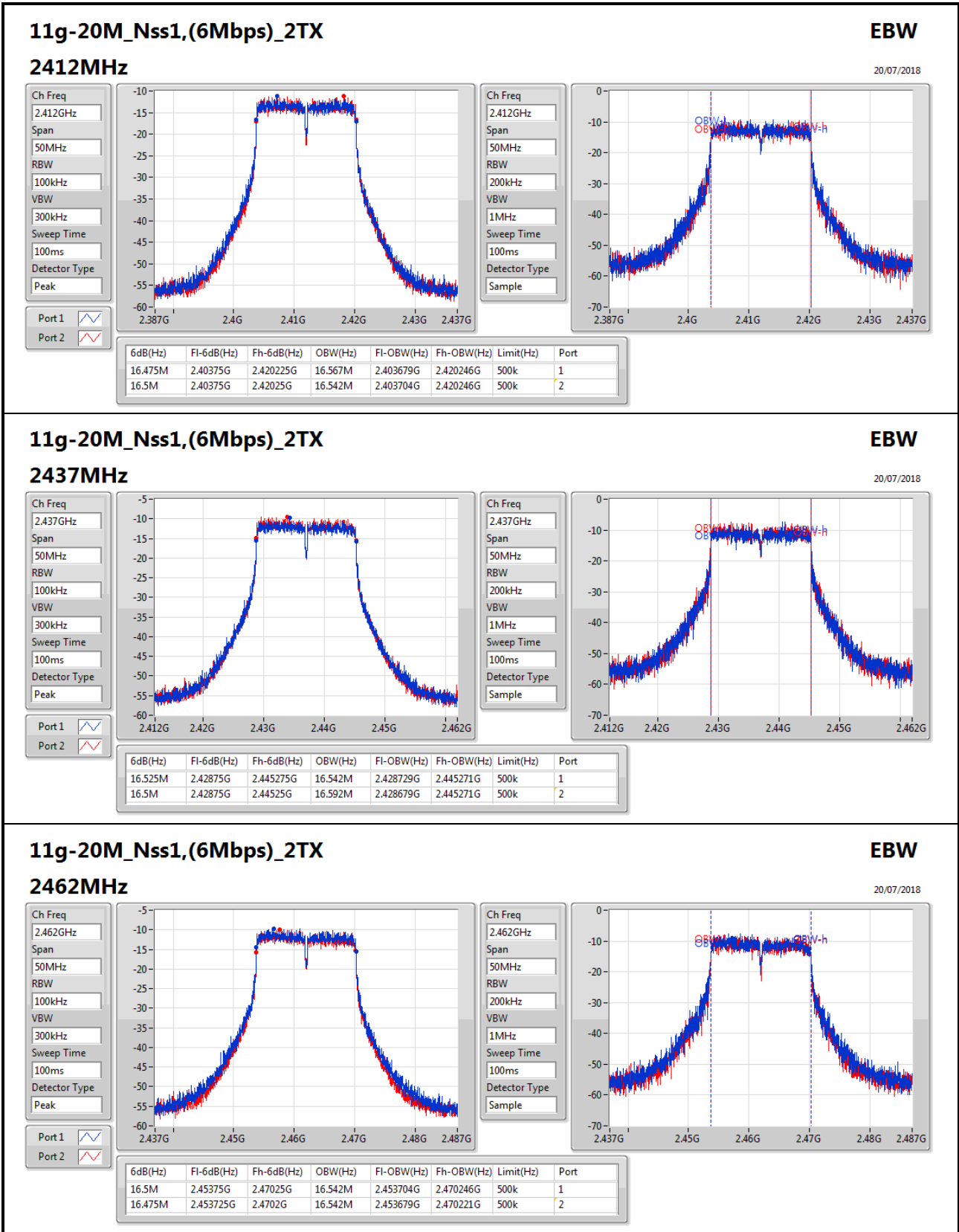
**EBW**  
20/07/2018

Ch Freq: 2.462GHz  
 Span: 25MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Peak

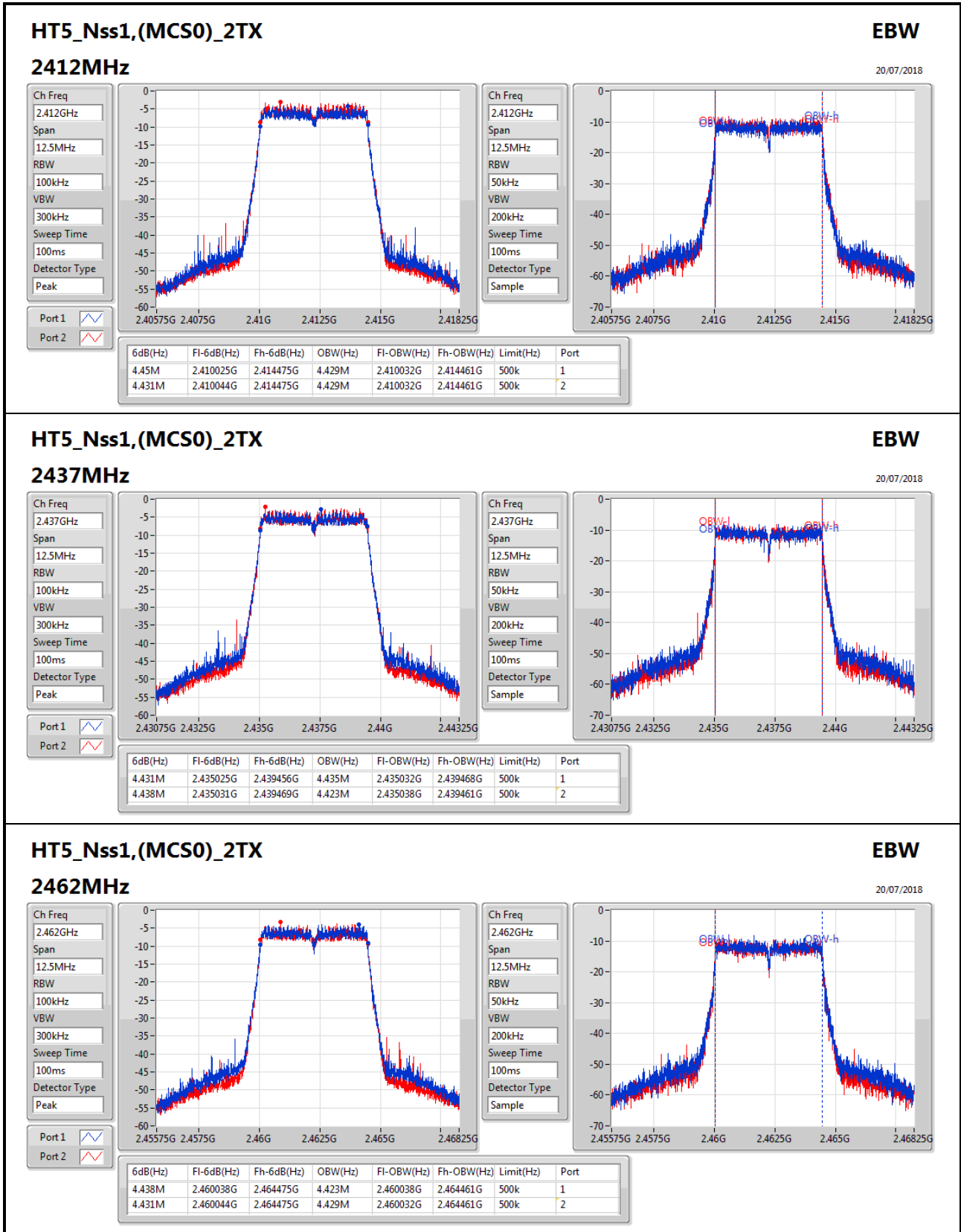
Port 1:   
 Port 2:

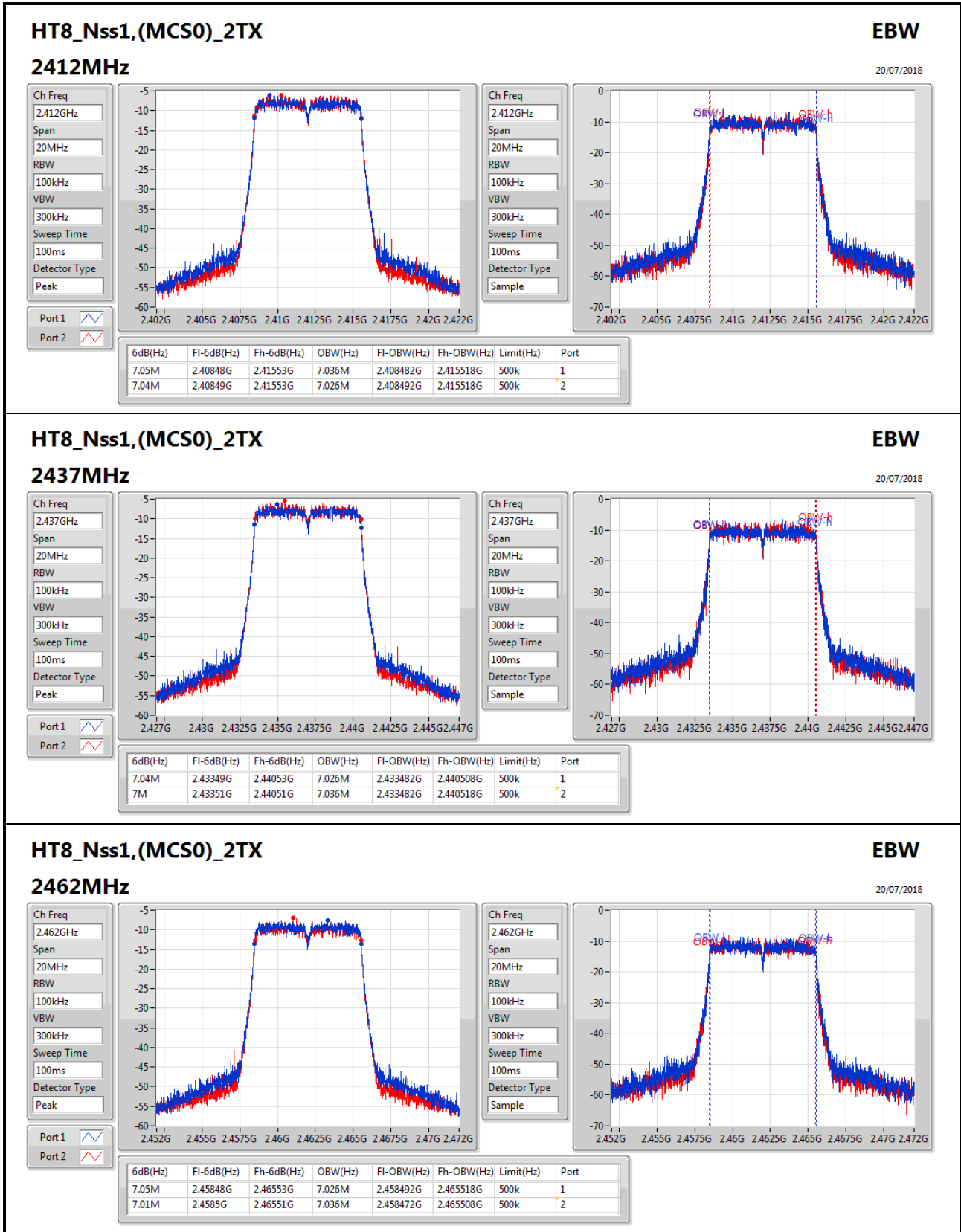
Ch Freq: 2.462GHz  
 Span: 25MHz  
 RBW: 100kHz  
 VBW: 300kHz  
 Sweep Time: 100ms  
 Detector Type: Sample










**HT8\_Nss1,(MCS0)\_2TX**
**EBW**

20/07/2018

**2462MHz**

Ch Freq: 2.462GHz

Span: 20MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.462GHz

Span: 20MHz

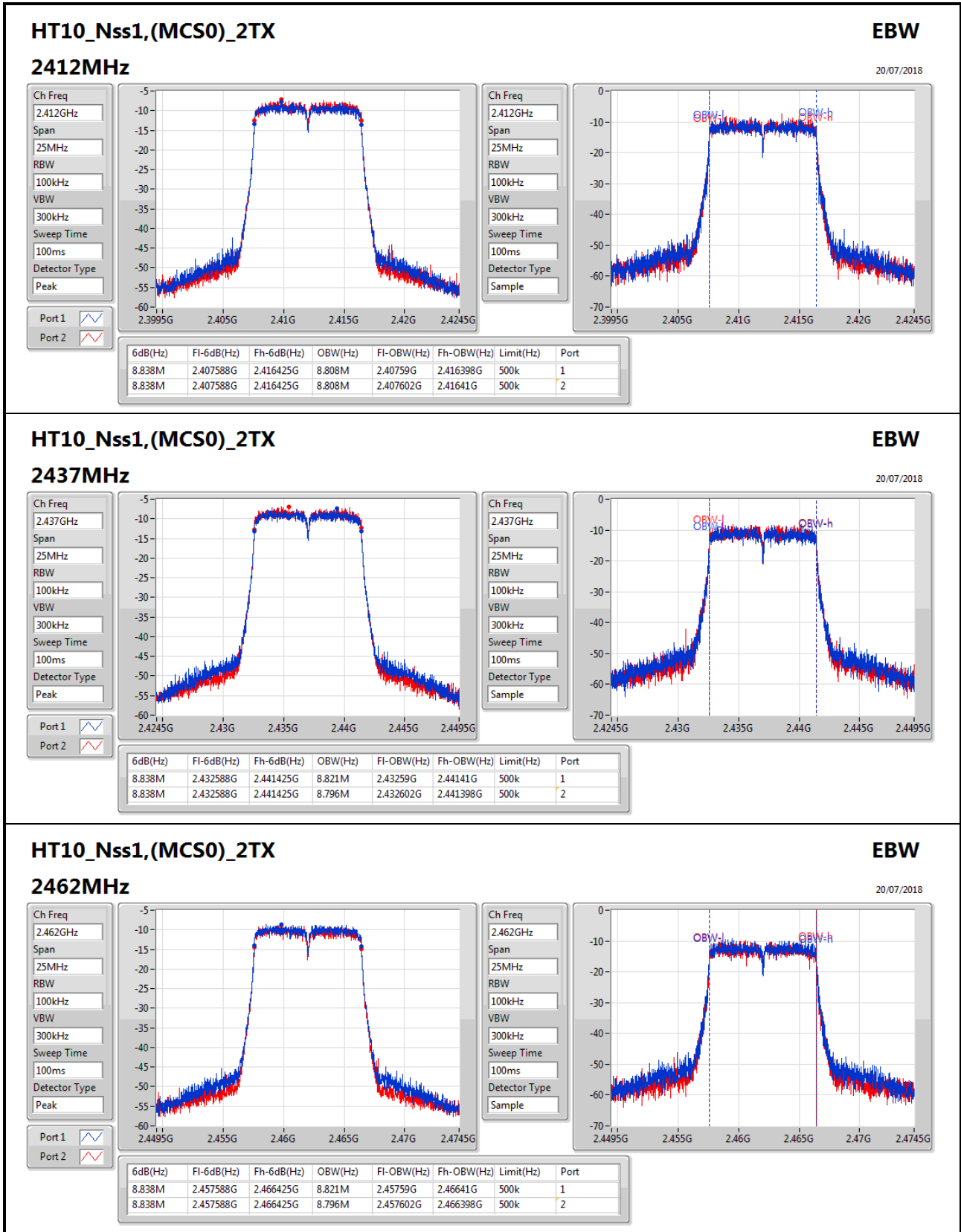
RBW: 100kHz

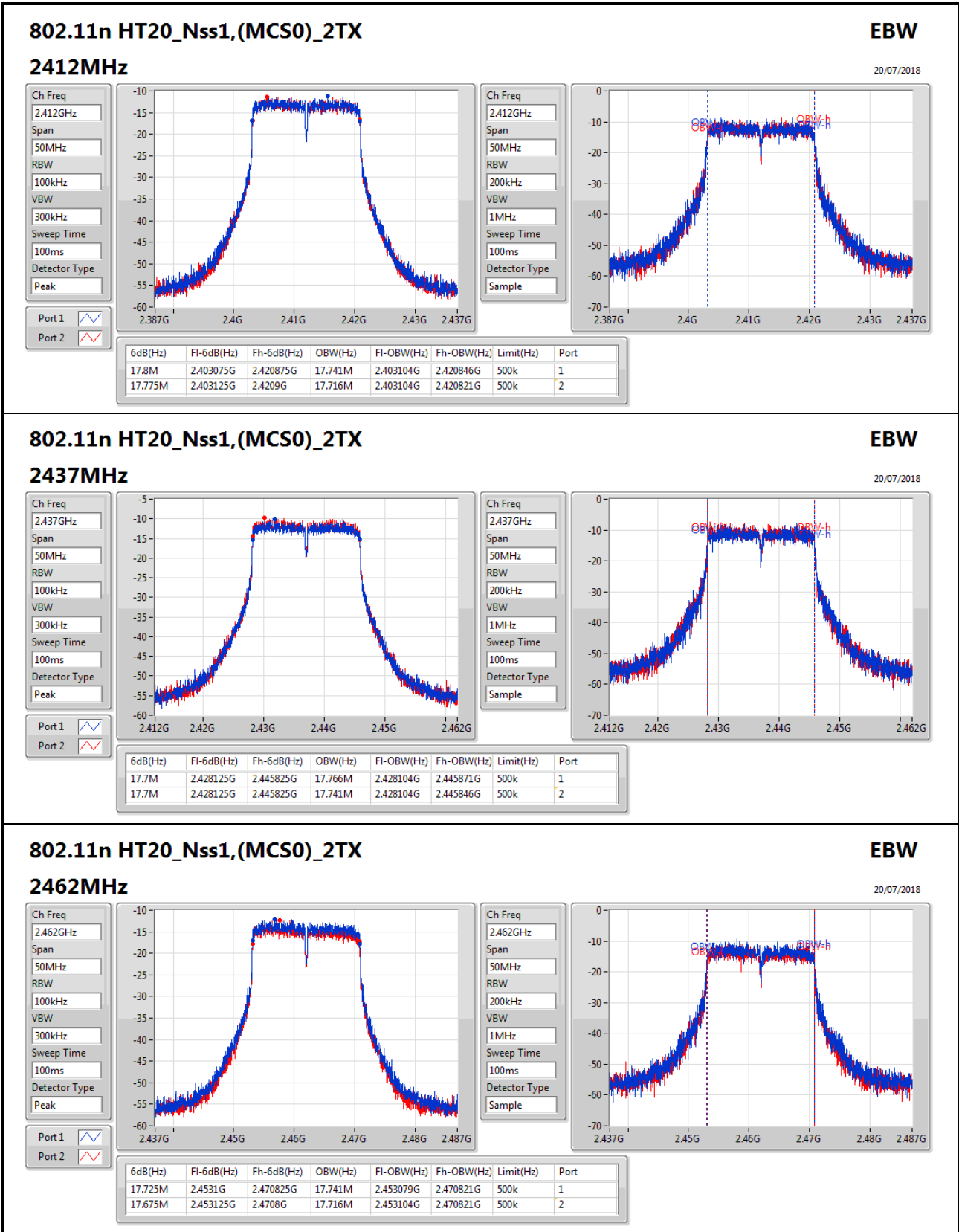
VBW: 300kHz

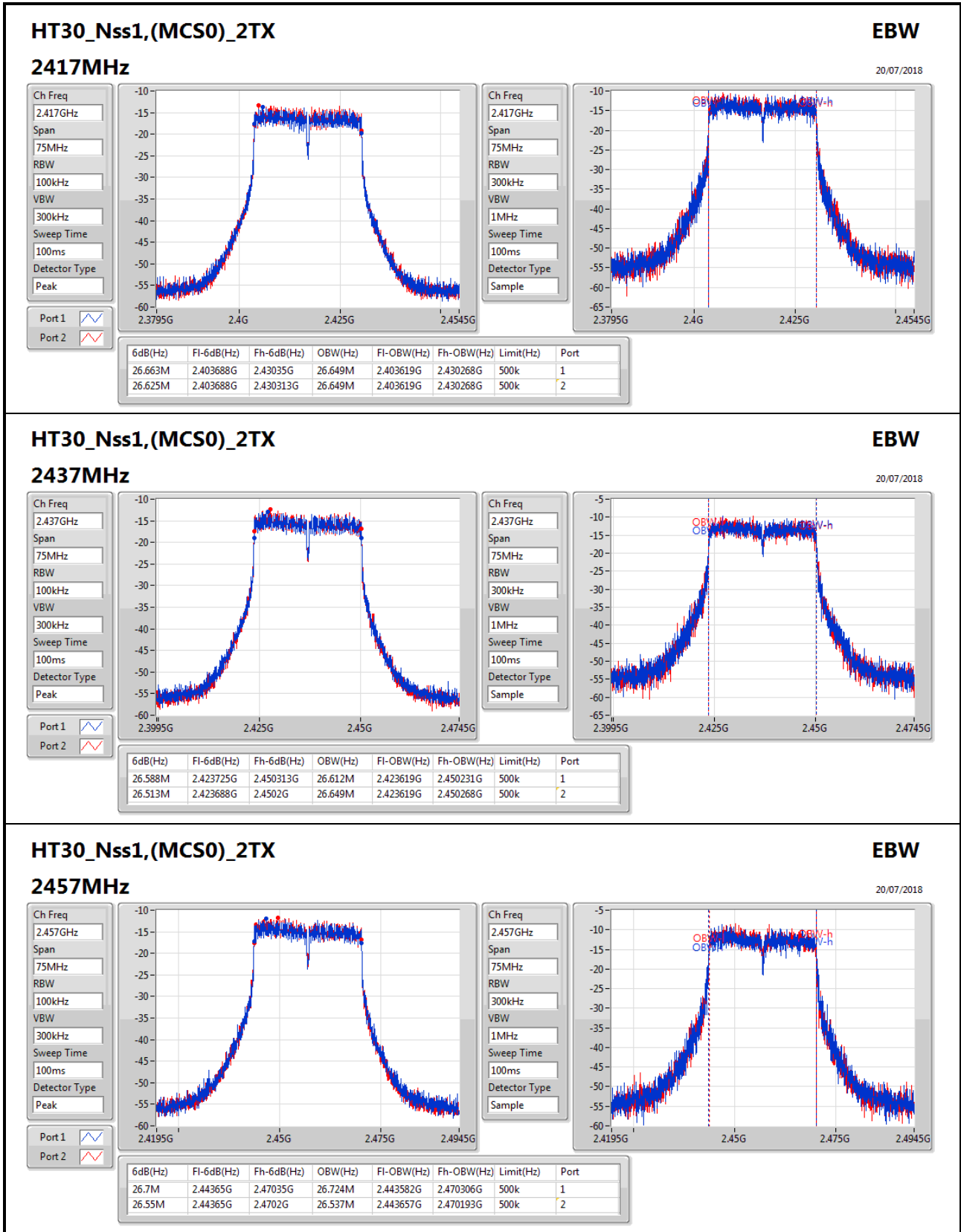
Sweep Time: 100ms

Detector Type: Sample

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.05M	2.45848G	2.46553G	7.026M	2.458492G	2.465518G	500k	1
7.01M	2.4585G	2.46551G	7.036M	2.458472G	2.465508G	500k	2






**HT30\_Nss1,(MCS0)\_2TX**
**EBW**

20/07/2018

**2457MHz**

Ch Freq: 2.457GHz

Span: 75MHz

RBW: 100kHz

VBW: 300kHz

Sweep Time: 100ms

Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.457GHz

Span: 75MHz

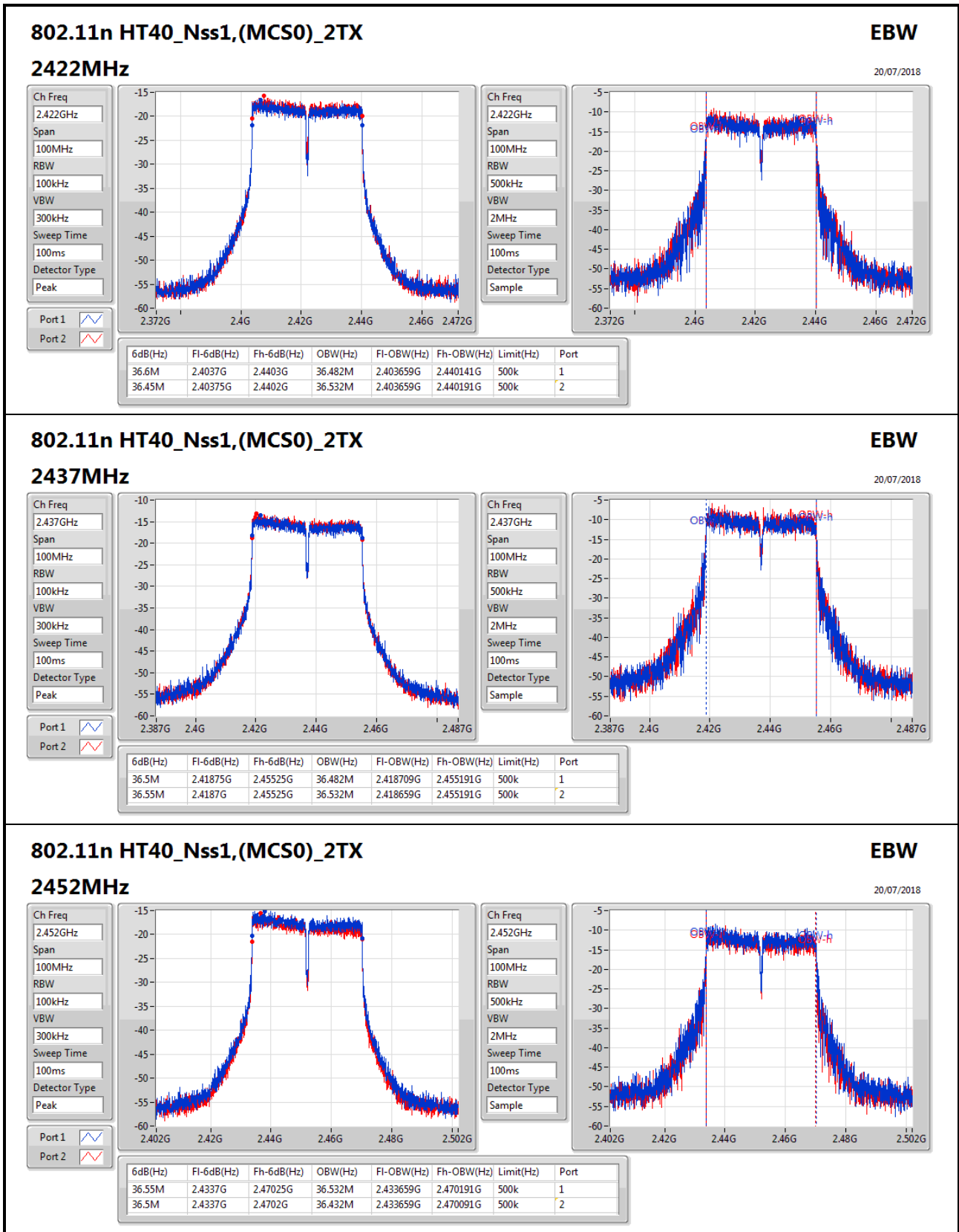
RBW: 300kHz

VBW: 1MHz

Sweep Time: 100ms

Detector Type: Sample

6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.7M	2.44365G	2.47035G	26.724M	2.443582G	2.470306G	500k	1
26.55M	2.44365G	2.4702G	26.537M	2.443657G	2.470193G	500k	2


**802.11n HT40\_Nss1,(MCS0)\_2TX**
**EBW**

20/07/2018

**2452MHz**

Ch Freq: 2.452GHz  
Span: 100MHz  
RBW: 100kHz  
VBW: 300kHz  
Sweep Time: 100ms  
Detector Type: Peak

Port 1:

Port 2:

Ch Freq: 2.452GHz  
Span: 100MHz  
RBW: 500kHz  
VBW: 2MHz  
Sweep Time: 100ms  
Detector Type: Sample



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b-5M_Nss1,(1Mbps)_2TX	18.00	0.06310
802.11b-8M_Nss1,(1Mbps)_2TX	17.81	0.06039
802.11b-10M_Nss1,(1Mbps)_2TX	17.93	0.06209
802.11b-20M_Nss1,(1Mbps)_2TX	18.53	0.07129
802.11g-5M_Nss1,(6Mbps)_2TX	20.08	0.10186
802.11g-8M_Nss1,(6Mbps)_2TX	20.01	0.10023
802.11g-10M_Nss1,(6Mbps)_2TX	18.42	0.06950
802.11g-20M_Nss1,(6Mbps)_2TX	14.82	0.03034
802.11n HT5_Nss1,(MCS0)_2TX	17.18	0.05224
802.11n HT8_Nss1,(MCS0)_2TX	18.11	0.06471
802.11n HT10_Nss1,(MCS0)_2TX	16.44	0.04406
802.11n HT20_Nss1,(MCS0)_2TX	13.29	0.02133
802.11n HT30_Nss1,(MCS0)_2TX	12.64	0.01837
802.11n HT40_Nss1,(MCS0)_2TX	8.65	0.00733

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	12.43	11.73	15.10	26.00
2417MHz	Pass	10.00	15.43	14.51	18.00	26.00
2437MHz	Pass	10.00	15.23	14.28	17.79	26.00
2462MHz	Pass	10.00	14.63	14.45	17.55	26.00
802.11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	13.90	13.18	16.57	26.00
2417MHz	Pass	10.00	15.23	14.32	17.81	26.00
2437MHz	Pass	10.00	15.00	14.09	17.58	26.00
2462MHz	Pass	10.00	14.31	14.11	17.22	26.00
802.11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	13.63	12.65	16.18	26.00
2417MHz	Pass	10.00	15.37	14.42	17.93	26.00
2437MHz	Pass	10.00	15.14	14.19	17.70	26.00
2462MHz	Pass	10.00	15.02	14.12	17.60	26.00
802.11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	8.52	7.96	11.26	26.00
2417MHz	Pass	10.00	9.86	8.93	12.43	26.00
2422MHz	Pass	10.00	11.37	10.77	14.09	26.00
2427MHz	Pass	10.00	11.97	11.25	14.64	26.00
2432MHz	Pass	10.00	13.87	12.70	16.33	26.00
2437MHz	Pass	10.00	15.95	15.05	18.53	26.00
2442MHz	Pass	10.00	13.72	13.42	16.58	26.00
2447MHz	Pass	10.00	12.72	11.92	15.35	26.00
2452MHz	Pass	10.00	10.90	10.86	13.89	26.00
2457MHz	Pass	10.00	10.39	10.08	13.25	26.00



**AV Power Result-(Antenna 3)**

**Appendix C.1**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2462MHz	Pass	10.00	9.05	8.93	12.00	26.00
802.11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	15.11	14.35	17.76	26.00
2417MHz	Pass	10.00	15.81	14.98	18.43	26.00
2422MHz	Pass	10.00	16.33	15.60	18.99	26.00
2427MHz	Pass	10.00	17.34	16.41	19.91	26.00
2432MHz	Pass	10.00	17.19	16.58	19.91	26.00
2437MHz	Pass	10.00	17.35	16.76	20.08	26.00
2452MHz	Pass	10.00	16.92	16.82	19.88	26.00
2457MHz	Pass	10.00	16.60	16.20	19.41	26.00
2462MHz	Pass	10.00	15.25	15.15	18.21	26.00
802.11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	14.17	13.45	16.84	26.00
2417MHz	Pass	10.00	14.79	14.01	17.43	26.00
2422MHz	Pass	10.00	15.59	14.80	18.22	26.00
2427MHz	Pass	10.00	16.60	15.86	19.26	26.00
2432MHz	Pass	10.00	16.86	15.88	19.41	26.00
2437MHz	Pass	10.00	17.10	16.61	19.87	26.00
2452MHz	Pass	10.00	17.04	16.96	20.01	26.00
2457MHz	Pass	10.00	15.94	15.48	18.73	26.00
2462MHz	Pass	10.00	14.80	14.41	17.62	26.00
802.11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	12.56	11.81	15.21	26.00
2417MHz	Pass	10.00	13.21	12.36	15.82	26.00
2422MHz	Pass	10.00	14.04	13.25	16.67	26.00
2427MHz	Pass	10.00	14.41	13.53	17.00	26.00
2432MHz	Pass	10.00	15.26	14.41	17.87	26.00
2437MHz	Pass	10.00	15.70	14.90	18.33	26.00
2452MHz	Pass	10.00	15.55	15.27	18.42	26.00
2457MHz	Pass	10.00	14.93	14.32	17.65	26.00
2462MHz	Pass	10.00	14.17	13.96	17.08	26.00
802.11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	6.02	5.37	8.72	26.00
2417MHz	Pass	10.00	8.58	8.18	11.39	26.00
2422MHz	Pass	10.00	9.11	8.48	11.82	26.00
2427MHz	Pass	10.00	9.63	8.95	12.31	26.00
2432MHz	Pass	10.00	10.54	9.63	13.12	26.00
2437MHz	Pass	10.00	12.22	11.36	14.82	26.00
2442MHz	Pass	10.00	11.59	11.36	14.49	26.00
2447MHz	Pass	10.00	10.74	9.98	13.39	26.00
2452MHz	Pass	10.00	10.39	10.20	13.31	26.00
2457MHz	Pass	10.00	8.79	8.37	11.60	26.00
2462MHz	Pass	10.00	4.72	4.80	7.77	26.00
802.11n HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	11.78	10.97	14.40	26.00





**AV Power Result-(Antenna 3)**

**Appendix C.1**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2417MHz	Pass	10.00	14.53	13.77	17.18	26.00
2437MHz	Pass	10.00	14.48	13.66	17.10	26.00
2452MHz	Pass	10.00	14.13	13.94	17.05	26.00
2457MHz	Pass	10.00	11.75	11.29	14.54	26.00
2462MHz	Pass	10.00	10.11	10.33	13.23	26.00
802.11n HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	12.83	12.21	15.54	26.00
2417MHz	Pass	10.00	15.49	14.66	18.11	26.00
2437MHz	Pass	10.00	15.30	14.37	17.87	26.00
2442MHz	Pass	10.00	15.27	14.79	18.05	26.00
2447MHz	Pass	10.00	10.98	10.18	13.61	26.00
2452MHz	Pass	10.00	7.55	7.82	10.70	26.00
2457MHz	Pass	10.00	7.09	6.89	10.00	26.00
2462MHz	Pass	10.00	6.34	6.73	9.55	26.00
802.11n HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	8.81	8.45	11.64	26.00
2417MHz	Pass	10.00	9.39	8.92	12.17	26.00
2422MHz	Pass	10.00	10.76	9.93	13.38	26.00
2427MHz	Pass	10.00	10.92	10.04	13.51	26.00
2432MHz	Pass	10.00	11.66	10.99	14.35	26.00
2437MHz	Pass	10.00	13.89	12.91	16.44	26.00
2452MHz	Pass	10.00	13.27	12.96	16.13	26.00
2457MHz	Pass	10.00	6.79	6.35	9.59	26.00
2462MHz	Pass	10.00	6.11	6.57	9.36	26.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	10.00	6.04	5.37	8.73	26.00
2417MHz	Pass	10.00	7.33	6.51	9.95	26.00
2422MHz	Pass	10.00	9.77	9.24	12.52	26.00
2427MHz	Pass	10.00	10.36	9.70	13.05	26.00
2437MHz	Pass	10.00	10.63	9.90	13.29	26.00
2452MHz	Pass	10.00	10.04	9.81	12.94	26.00
2457MHz	Pass	10.00	7.20	6.72	9.98	26.00
2462MHz	Pass	10.00	4.58	4.72	7.66	26.00
802.11n HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz	Pass	10.00	3.80	3.61	6.72	26.00
2422MHz	Pass	10.00	3.92	3.54	6.74	26.00
2427MHz	Pass	10.00	5.68	4.98	8.35	26.00
2432MHz	Pass	10.00	7.66	6.66	10.20	26.00
2437MHz	Pass	10.00	9.94	9.29	12.64	26.00
2442MHz	Pass	10.00	7.35	6.92	10.15	26.00
2447MHz	Pass	10.00	6.40	5.80	9.12	26.00
2452MHz	Pass	10.00	3.88	4.14	7.02	26.00
2457MHz	Pass	10.00	3.28	3.13	6.22	26.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	10.00	2.08	1.40	4.76	26.00



## AV Power Result-(Antenna 3)

Appendix C.1

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2427MHz	Pass	10.00	2.52	1.84	5.20	26.00
2432MHz	Pass	10.00	2.92	2.12	5.55	26.00
2437MHz	Pass	10.00	6.12	5.09	8.65	26.00
2442MHz	Pass	10.00	4.88	4.32	7.62	26.00
2447MHz	Pass	10.00	3.77	3.34	6.57	26.00
2452MHz	Pass	10.00	2.36	2.13	5.26	26.00

DG = Directional Gain; Port X = Port X output power

Note : Conducted average output power is for reference only



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b-5M_Nss1,(1Mbps)_2TX	18.00	0.06310
802.11b-8M_Nss1,(1Mbps)_2TX	17.81	0.06039
802.11b-10M_Nss1,(1Mbps)_2TX	17.93	0.06209
802.11b-20M_Nss1,(1Mbps)_2TX	18.53	0.07129
802.11g-5M_Nss1,(6Mbps)_2TX	20.08	0.10186
802.11g-8M_Nss1,(6Mbps)_2TX	20.01	0.10023
802.11g-10M_Nss1,(6Mbps)_2TX	18.42	0.06950
802.11g-20M_Nss1,(6Mbps)_2TX	14.82	0.03034
802.11n HT5_Nss1,(MCS0)_2TX	17.18	0.05224
802.11n HT8_Nss1,(MCS0)_2TX	18.11	0.06471
802.11n HT10_Nss1,(MCS0)_2TX	16.44	0.04406
802.11n HT20_Nss1,(MCS0)_2TX	13.29	0.02133
802.11n HT30_Nss1,(MCS0)_2TX	12.64	0.01837
802.11n HT40_Nss1,(MCS0)_2TX	8.65	0.00733

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	12.43	11.73	15.10	23.00
2417MHz	Pass	13.00	15.43	14.51	18.00	23.00
2437MHz	Pass	13.00	15.23	14.28	17.79	23.00
2462MHz	Pass	13.00	14.63	14.45	17.55	23.00
802.11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	13.90	13.18	16.57	23.00
2417MHz	Pass	13.00	15.23	14.32	17.81	23.00
2437MHz	Pass	13.00	15.00	14.09	17.58	23.00
2462MHz	Pass	13.00	14.31	14.11	17.22	23.00
802.11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	13.63	12.65	16.18	23.00
2417MHz	Pass	13.00	15.37	14.42	17.93	23.00
2437MHz	Pass	13.00	15.14	14.19	17.70	23.00
2462MHz	Pass	13.00	15.02	14.12	17.60	23.00
802.11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	8.52	7.96	11.26	23.00
2417MHz	Pass	13.00	9.86	8.93	12.43	23.00
2422MHz	Pass	13.00	11.37	10.77	14.09	23.00
2427MHz	Pass	13.00	11.97	11.25	14.64	23.00
2432MHz	Pass	13.00	13.87	12.70	16.33	23.00
2437MHz	Pass	13.00	15.95	15.05	18.53	23.00
2442MHz	Pass	13.00	13.72	13.42	16.58	23.00
2447MHz	Pass	13.00	12.72	11.92	15.35	23.00
2452MHz	Pass	13.00	10.90	10.86	13.89	23.00
2457MHz	Pass	13.00	10.39	10.08	13.25	23.00



**AV Power Result-(Antenna 4)**

**Appendix C.2**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2462MHz	Pass	13.00	9.05	8.93	12.00	23.00
802.11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	15.11	14.35	17.76	23.00
2417MHz	Pass	13.00	15.81	14.98	18.43	23.00
2422MHz	Pass	13.00	16.33	15.60	18.99	23.00
2427MHz	Pass	13.00	17.34	16.41	19.91	23.00
2432MHz	Pass	13.00	17.19	16.58	19.91	23.00
2437MHz	Pass	13.00	17.35	16.76	20.08	23.00
2442MHz						
2447MHz						
2452MHz	Pass	13.00	16.92	16.82	19.88	23.00
2457MHz	Pass	13.00	16.60	16.20	19.41	23.00
2462MHz	Pass	13.00	15.25	15.15	18.21	23.00
802.11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	14.17	13.45	16.84	23.00
2417MHz	Pass	13.00	14.79	14.01	17.43	23.00
2422MHz	Pass	13.00	15.59	14.80	18.22	23.00
2427MHz	Pass	13.00	16.60	15.86	19.26	23.00
2432MHz	Pass	13.00	16.86	15.88	19.41	23.00
2437MHz	Pass	13.00	17.10	16.61	19.87	23.00
2442MHz						
2447MHz						
2452MHz	Pass	13.00	17.04	16.96	20.01	23.00
2457MHz	Pass	13.00	15.94	15.48	18.73	23.00
2462MHz	Pass	13.00	14.80	14.41	17.62	23.00
802.11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	12.56	11.81	15.21	23.00
2417MHz	Pass	13.00	13.21	12.36	15.82	23.00
2422MHz	Pass	13.00	14.04	13.25	16.67	23.00
2427MHz	Pass	13.00	14.41	13.53	17.00	23.00
2432MHz	Pass	13.00	15.26	14.41	17.87	23.00
2437MHz	Pass	13.00	15.70	14.90	18.33	23.00
2442MHz						
2447MHz						
2452MHz	Pass	13.00	15.55	15.27	18.42	23.00
2457MHz	Pass	13.00	14.93	14.32	17.65	23.00
2462MHz	Pass	13.00	14.17	13.96	17.08	23.00
802.11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	6.02	5.37	8.72	23.00
2417MHz	Pass	13.00	8.58	8.18	11.39	23.00
2422MHz	Pass	13.00	9.11	8.48	11.82	23.00
2427MHz	Pass	13.00	9.63	8.95	12.31	23.00
2432MHz	Pass	13.00	10.54	9.63	13.12	23.00
2437MHz	Pass	13.00	12.22	11.36	14.82	23.00
2442MHz	Pass	13.00	11.59	11.36	14.49	23.00



**AV Power Result-(Antenna 4)**

**Appendix C.2**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2447MHz	Pass	13.00	10.74	9.98	13.39	23.00
2452MHz	Pass	13.00	10.39	10.20	13.31	23.00
2457MHz	Pass	13.00	8.79	8.37	11.60	23.00
2462MHz	Pass	13.00	4.72	4.80	7.77	23.00
802.11n HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	11.78	10.97	14.40	23.00
2417MHz	Pass	13.00	14.53	13.77	17.18	23.00
2437MHz	Pass	13.00	14.48	13.66	17.10	23.00
2452MHz	Pass	13.00	14.13	13.94	17.05	23.00
2457MHz	Pass	13.00	11.75	11.29	14.54	23.00
2462MHz	Pass	13.00	10.11	10.33	13.23	23.00
802.11n HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	12.83	12.21	15.54	23.00
2417MHz	Pass	13.00	15.49	14.66	18.11	23.00
2437MHz	Pass	13.00	15.30	14.37	17.87	23.00
2442MHz	Pass	13.00	15.27	14.79	18.05	23.00
2447MHz	Pass	13.00	10.98	10.18	13.61	23.00
2452MHz	Pass	13.00	7.55	7.82	10.70	23.00
2457MHz	Pass	13.00	7.09	6.89	10.00	23.00
2462MHz	Pass	13.00	6.34	6.73	9.55	23.00
802.11n HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	8.81	8.45	11.64	23.00
2417MHz	Pass	13.00	9.39	8.92	12.17	23.00
2422MHz	Pass	13.00	10.76	9.93	13.38	23.00
2427MHz	Pass	13.00	10.92	10.04	13.51	23.00
2432MHz	Pass	13.00	11.66	10.99	14.35	23.00
2437MHz	Pass	13.00	13.89	12.91	16.44	23.00
2452MHz	Pass	13.00	13.27	12.96	16.13	23.00
2457MHz	Pass	13.00	6.79	6.35	9.59	23.00
2462MHz	Pass	13.00	6.11	6.57	9.36	23.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.00	6.04	5.37	8.73	23.00
2417MHz	Pass	13.00	7.33	6.51	9.95	23.00
2422MHz	Pass	13.00	9.77	9.24	12.52	23.00
2427MHz	Pass	13.00	10.36	9.70	13.05	23.00
2437MHz	Pass	13.00	10.63	9.90	13.29	23.00
2452MHz	Pass	13.00	10.04	9.81	12.94	23.00
2457MHz	Pass	13.00	7.20	6.72	9.98	23.00
2462MHz	Pass	13.00	4.58	4.72	7.66	23.00
802.11n HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz	Pass	13.00	3.80	3.61	6.72	23.00
2422MHz	Pass	13.00	3.92	3.54	6.74	23.00
2427MHz	Pass	13.00	5.68	4.98	8.35	23.00
2432MHz	Pass	13.00	7.66	6.66	10.20	23.00
2437MHz	Pass	13.00	9.94	9.29	12.64	23.00



Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2442MHz	Pass	13.00	7.35	6.92	10.15	23.00
2447MHz	Pass	13.00	6.40	5.80	9.12	23.00
2452MHz	Pass	13.00	3.88	4.14	7.02	23.00
2457MHz	Pass	13.00	3.28	3.13	6.22	23.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	13.00	2.08	1.40	4.76	23.00
2427MHz	Pass	13.00	2.52	1.84	5.20	23.00
2432MHz	Pass	13.00	2.92	2.12	5.55	23.00
2437MHz	Pass	13.00	6.12	5.09	8.65	23.00
2442MHz	Pass	13.00	4.88	4.32	7.62	23.00
2447MHz	Pass	13.00	3.77	3.34	6.57	23.00
2452MHz	Pass	13.00	2.36	2.13	5.26	23.00

**DG = Directional Gain; Port X = Port X output power**  
**Note : Conducted average output power is for reference only**



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
11b-5M_Nss1,(1Mbps)_2TX	14.06	0.02547
11b-8M_Nss1,(1Mbps)_2TX	15.12	0.03251
11b-10M_Nss1,(1Mbps)_2TX	15.81	0.03811
11b-20M_Nss1,(1Mbps)_2TX	16.43	0.04395
11g-5M_Nss1,(6Mbps)_2TX	16.87	0.04864
11g-8M_Nss1,(6Mbps)_2TX	17.68	0.05861
11g-10M_Nss1,(6Mbps)_2TX	18.29	0.06745
11g-20M_Nss1,(6Mbps)_2TX	18.49	0.07063
HT5_Nss1,(MCS0)_2TX	17.54	0.05675
HT8_Nss1,(MCS0)_2TX	17.84	0.06081
HT10_Nss1,(MCS0)_2TX	18.23	0.06653
802.11n HT20_Nss1,(MCS0)_2TX	18.43	0.06966
HT30_Nss1,(MCS0)_2TX	14.60	0.02884
802.11n HT40_Nss1,(MCS0)_2TX	9.25	0.00841

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	10.21	10.77	13.51	19.00
2437MHz_TnomVnom	Pass	17.00	10.90	11.19	14.06	19.00
2462MHz_TnomVnom	Pass	17.00	10.99	10.89	13.95	19.00
11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	11.22	11.48	14.36	19.00
2437MHz_TnomVnom	Pass	17.00	11.86	12.34	15.12	19.00
2462MHz_TnomVnom	Pass	17.00	12.00	11.95	14.99	19.00
11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	11.97	12.27	15.13	19.00
2437MHz_TnomVnom	Pass	17.00	12.46	13.11	15.81	19.00
2462MHz_TnomVnom	Pass	17.00	12.72	12.49	15.62	19.00
11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	8.33	8.92	11.65	19.00
2417MHz_TnomVnom	Pass	17.00	9.60	10.07	12.85	19.00
2422MHz_TnomVnom	Pass	17.00	11.51	11.74	14.64	19.00
2427MHz_TnomVnom	Pass	17.00	13.13	13.69	16.43	19.00
2437MHz_TnomVnom	Pass	17.00	12.75	13.23	16.01	19.00
2447MHz_TnomVnom	Pass	17.00	12.89	13.47	16.20	19.00
2452MHz_TnomVnom	Pass	17.00	12.50	12.44	15.48	19.00
2457MHz_TnomVnom	Pass	17.00	9.43	9.60	12.53	19.00
2462MHz_TnomVnom	Pass	17.00	8.76	8.49	11.64	19.00
11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	13.03	13.44	16.25	19.00
2417MHz_TnomVnom	Pass	17.00	13.49	13.87	16.69	19.00
2437MHz_TnomVnom	Pass	17.00	13.68	14.03	16.87	19.00



**AV Power Result-(Antenna 5)**

**Appendix C.3**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2462MHz_TnomVnom	Pass	17.00	13.81	13.56	16.70	19.00
11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	13.92	14.16	17.05	19.00
2417MHz_TnomVnom	Pass	17.00	14.50	14.84	17.68	19.00
2422MHz_TnomVnom	Pass	17.00	14.47	14.83	17.66	19.00
2437MHz_TnomVnom	Pass	17.00	14.48	14.71	17.61	19.00
2462MHz_TnomVnom	Pass	17.00	14.78	14.48	17.64	19.00
11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	15.06	15.28	18.18	19.00
2417MHz_TnomVnom	Pass	17.00	15.06	15.29	18.19	19.00
2422MHz_TnomVnom	Pass	17.00	15.13	15.37	18.26	19.00
2437MHz_TnomVnom	Pass	17.00	15.10	15.45	18.29	19.00
2457MHz_TnomVnom	Pass	17.00	14.90	15.41	18.17	19.00
2462MHz_TnomVnom	Pass	17.00	14.04	13.73	16.90	19.00
11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	6.47	6.87	9.68	19.00
2417MHz_TnomVnom	Pass	17.00	9.72	10.19	12.97	19.00
2422MHz_TnomVnom	Pass	17.00	11.24	11.54	14.40	19.00
2427MHz_TnomVnom	Pass	17.00	13.16	13.59	16.39	19.00
2432MHz_TnomVnom	Pass	17.00	14.51	14.86	17.70	19.00
2437MHz_TnomVnom	Pass	17.00	14.52	14.94	17.75	19.00
2447MHz_TnomVnom	Pass	17.00	15.26	15.68	18.49	19.00
2452MHz_TnomVnom	Pass	17.00	13.47	13.45	16.47	19.00
2457MHz_TnomVnom	Pass	17.00	9.81	10.13	12.98	19.00
2462MHz_TnomVnom	Pass	17.00	6.37	6.08	9.24	19.00
HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	14.31	14.73	17.54	19.00
2417MHz_TnomVnom	Pass	17.00	13.91	14.31	17.12	19.00
2437MHz_TnomVnom	Pass	17.00	13.79	14.14	16.98	19.00
2462MHz_TnomVnom	Pass	17.00	14.05	13.76	16.92	19.00
HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	14.67	14.99	17.84	19.00
2417MHz_TnomVnom	Pass	17.00	14.60	14.82	17.72	19.00
2437MHz_TnomVnom	Pass	17.00	14.43	14.67	17.56	19.00
2462MHz_TnomVnom	Pass	17.00	14.62	14.29	17.47	19.00
HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	12.88	13.23	16.07	19.00
2417MHz_TnomVnom	Pass	17.00	15.05	15.28	18.18	19.00
2422MHz_TnomVnom	Pass	17.00	14.97	15.21	18.10	19.00
2437MHz_TnomVnom	Pass	17.00	15.12	15.32	18.23	19.00
2457MHz_TnomVnom	Pass	17.00	14.96	15.09	18.04	19.00
2462MHz_TnomVnom	Pass	17.00	14.92	14.96	17.95	19.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	17.00	7.55	7.56	10.57	19.00
2417MHz_TnomVnom	Pass	17.00	11.13	11.48	14.32	19.00





**AV Power Result-(Antenna 5)**

**Appendix C.3**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2422MHz_TnomVnom	Pass	17.00	12.77	13.19	16.00	19.00
2427MHz_TnomVnom	Pass	17.00	13.89	14.25	17.08	19.00
2432MHz_TnomVnom	Pass	17.00	15.27	15.56	18.43	19.00
2437MHz_TnomVnom	Pass	17.00	14.94	15.24	18.10	19.00
2447MHz_TnomVnom	Pass	17.00	15.11	15.38	18.26	19.00
2452MHz_TnomVnom	Pass	17.00	12.92	12.79	15.87	19.00
2457MHz_TnomVnom	Pass	17.00	9.62	9.70	12.67	19.00
2462MHz_TnomVnom	Pass	17.00	6.42	5.64	9.06	19.00
HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz_TnomVnom	Pass	17.00	3.77	3.99	6.89	19.00
2422MHz_TnomVnom	Pass	17.00	6.54	7.01	9.79	19.00
2427MHz_TnomVnom	Pass	17.00	8.30	8.34	11.33	19.00
2432MHz_TnomVnom	Pass	17.00	10.36	10.97	13.69	19.00
2437MHz_TnomVnom	Pass	17.00	11.32	11.63	14.49	19.00
2442MHz_TnomVnom	Pass	17.00	11.70	11.48	14.60	19.00
2447MHz_TnomVnom	Pass	17.00	8.66	8.68	11.68	19.00
2452MHz_TnomVnom	Pass	17.00	5.81	5.68	8.76	19.00
2457MHz_TnomVnom	Pass	17.00	5.09	5.30	8.21	19.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	17.00	2.85	2.90	5.89	19.00
2427MHz_TnomVnom	Pass	17.00	3.80	3.78	6.80	19.00
2432MHz_TnomVnom	Pass	17.00	5.50	5.91	8.72	19.00
2437MHz_TnomVnom	Pass	17.00	6.07	6.40	9.25	19.00
2442MHz_TnomVnom	Pass	17.00	5.76	6.05	8.92	19.00
2447MHz_TnomVnom	Pass	17.00	3.86	4.09	6.99	19.00
2452MHz_TnomVnom	Pass	17.00	2.97	2.38	5.70	19.00

**DG = Directional Gain; Port X = Port X output power**  
**Note : Conducted average output power is for reference only**



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
11b-5M_Nss1,(1Mbps)_2TX	6.57	0.00454
11b-8M_Nss1,(1Mbps)_2TX	7.61	0.00577
11b-10M_Nss1,(1Mbps)_2TX	6.81	0.00480
11b-20M_Nss1,(1Mbps)_2TX	7.49	0.00561
11g-5M_Nss1,(6Mbps)_2TX	7.11	0.00514
11g-8M_Nss1,(6Mbps)_2TX	6.90	0.00490
11g-10M_Nss1,(6Mbps)_2TX	7.12	0.00515
11g-20M_Nss1,(6Mbps)_2TX	7.40	0.00550
HT5_Nss1,(MCS0)_2TX	7.34	0.00542
HT8_Nss1,(MCS0)_2TX	7.35	0.00543
HT10_Nss1,(MCS0)_2TX	7.34	0.00542
802.11n HT20_Nss1,(MCS0)_2TX	7.04	0.00506
HT30_Nss1,(MCS0)_2TX	5.95	0.00394
802.11n HT40_Nss1,(MCS0)_2TX	6.59	0.00456

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	2.28	3.02	5.68	24.00
2437MHz_TnomVnom	Pass	24.00	3.22	3.83	6.55	24.00
2462MHz_TnomVnom	Pass	24.00	3.65	3.46	6.57	24.00
11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.08	3.66	6.39	24.00
2437MHz_TnomVnom	Pass	24.00	4.37	4.82	7.61	24.00
2457MHz_TnomVnom	Pass	24.00	3.64	3.95	6.81	24.00
2462MHz_TnomVnom	Pass	24.00	2.82	2.61	5.73	24.00
11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	2.85	3.45	6.17	24.00
2437MHz_TnomVnom	Pass	24.00	3.15	3.62	6.40	24.00
2452MHz_TnomVnom	Pass	24.00	3.86	3.73	6.81	24.00
2457MHz_TnomVnom	Pass	24.00	2.97	3.36	6.18	24.00
2462MHz_TnomVnom	Pass	24.00	2.72	2.43	5.59	24.00
11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.38	3.86	6.64	24.00
2437MHz_TnomVnom	Pass	24.00	4.31	4.65	7.49	24.00
2457MHz_TnomVnom	Pass	24.00	3.75	3.84	6.81	24.00
2462MHz_TnomVnom	Pass	24.00	3.75	3.17	6.48	24.00
11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.68	4.05	6.88	24.00
2437MHz_TnomVnom	Pass	24.00	3.72	4.08	6.91	24.00
2452MHz_TnomVnom	Pass	24.00	4.20	4.00	7.11	24.00
2457MHz_TnomVnom	Pass	24.00	3.16	3.39	6.29	24.00
2462MHz_TnomVnom	Pass	24.00	3.33	2.98	6.17	24.00



**AV Power Result-(Antenna 6)**

**Appendix C.4**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.68	4.00	6.85	24.00
2437MHz_TnomVnom	Pass	24.00	3.69	4.08	6.90	24.00
2452MHz_TnomVnom	Pass	24.00	3.74	3.65	6.71	24.00
2457MHz_TnomVnom	Pass	24.00	3.09	3.32	6.22	24.00
2462MHz_TnomVnom	Pass	24.00	3.01	2.73	5.88	24.00
11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.92	4.26	7.10	24.00
2437MHz_TnomVnom	Pass	24.00	3.92	4.29	7.12	24.00
2452MHz_TnomVnom	Pass	24.00	4.11	3.93	7.03	24.00
2457MHz_TnomVnom	Pass	24.00	3.33	3.65	6.50	24.00
2462MHz_TnomVnom	Pass	24.00	3.77	3.46	6.63	24.00
11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	2.40	2.37	5.40	24.00
2417MHz_TnomVnom	Pass	24.00	4.23	4.54	7.40	24.00
2437MHz_TnomVnom	Pass	24.00	3.67	4.11	6.91	24.00
2457MHz_TnomVnom	Pass	24.00	3.99	4.26	7.14	24.00
2462MHz_TnomVnom	Pass	24.00	3.66	3.32	6.50	24.00
HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.52	4.03	6.79	24.00
2437MHz_TnomVnom	Pass	24.00	4.25	4.34	7.31	24.00
2452MHz_TnomVnom	Pass	24.00	4.36	4.30	7.34	24.00
2457MHz_TnomVnom	Pass	24.00	3.19	3.42	6.32	24.00
2462MHz_TnomVnom	Pass	24.00	3.35	3.10	6.24	24.00
HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.89	3.94	6.93	24.00
2437MHz_TnomVnom	Pass	24.00	4.09	4.57	7.35	24.00
2452MHz_TnomVnom	Pass	24.00	4.01	3.85	6.94	24.00
2457MHz_TnomVnom	Pass	24.00	3.09	3.26	6.19	24.00
2462MHz_TnomVnom	Pass	24.00	2.95	2.67	5.82	24.00
HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	3.78	4.10	6.95	24.00
2437MHz_TnomVnom	Pass	24.00	4.11	4.54	7.34	24.00
2452MHz_TnomVnom	Pass	24.00	4.08	3.87	6.99	24.00
2457MHz_TnomVnom	Pass	24.00	3.03	3.26	6.16	24.00
2462MHz_TnomVnom	Pass	24.00	3.00	2.71	5.87	24.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	24.00	2.84	2.86	5.86	24.00
2417MHz_TnomVnom	Pass	24.00	3.87	3.87	6.88	24.00
2437MHz_TnomVnom	Pass	24.00	3.77	4.27	7.04	24.00
2452MHz_TnomVnom	Pass	24.00	4.05	3.86	6.97	24.00
2457MHz_TnomVnom	Pass	24.00	3.33	3.60	6.48	24.00
2462MHz_TnomVnom	Pass	24.00	2.47	2.23	5.36	24.00
HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz_TnomVnom	Pass	24.00	1.50	1.83	4.68	24.00



Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
2422MHz_TnomVnom	Pass	24.00	2.75	2.75	5.76	24.00
2437MHz_TnomVnom	Pass	24.00	2.95	2.81	5.89	24.00
2452MHz_TnomVnom	Pass	24.00	3.02	2.85	5.95	24.00
2457MHz_TnomVnom	Pass	24.00	2.19	2.29	5.25	24.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	24.00	0.85	1.13	4.00	24.00
2427MHz_TnomVnom	Pass	24.00	2.39	2.37	5.39	24.00
2432MHz_TnomVnom	Pass	24.00	3.27	3.36	6.33	24.00
2437MHz_TnomVnom	Pass	24.00	3.39	3.77	6.59	24.00
2447MHz_TnomVnom	Pass	24.00	3.35	3.76	6.57	24.00
2452MHz_TnomVnom	Pass	24.00	2.09	1.43	4.78	24.00

DG = Directional Gain; Port X = Port X output power  
Note : Conducted average output power is for reference only



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b-5M_Nss1,(1Mbps)_2TX	-3.09
802.11b-8M_Nss1,(1Mbps)_2TX	-4.94
802.11b-10M_Nss1,(1Mbps)_2TX	-5.92
802.11b-20M_Nss1,(1Mbps)_2TX	-6.80
802.11g-5M_Nss1,(6Mbps)_2TX	-2.22
802.11g-8M_Nss1,(6Mbps)_2TX	-3.70
802.11g-10M_Nss1,(6Mbps)_2TX	-7.08
802.11g-20M_Nss1,(6Mbps)_2TX	-12.88
802.11n HT5_Nss1,(MCS0)_2TX	-5.25
802.11n HT8_Nss1,(MCS0)_2TX	-6.84
802.11n HT10_Nss1,(MCS0)_2TX	-9.48
802.11n HT20_Nss1,(MCS0)_2TX	-14.01
802.11n HT30_Nss1,(MCS0)_2TX	-16.22
802.11n HT40_Nss1,(MCS0)_2TX	-21.08

RBW=3kHz.

Result

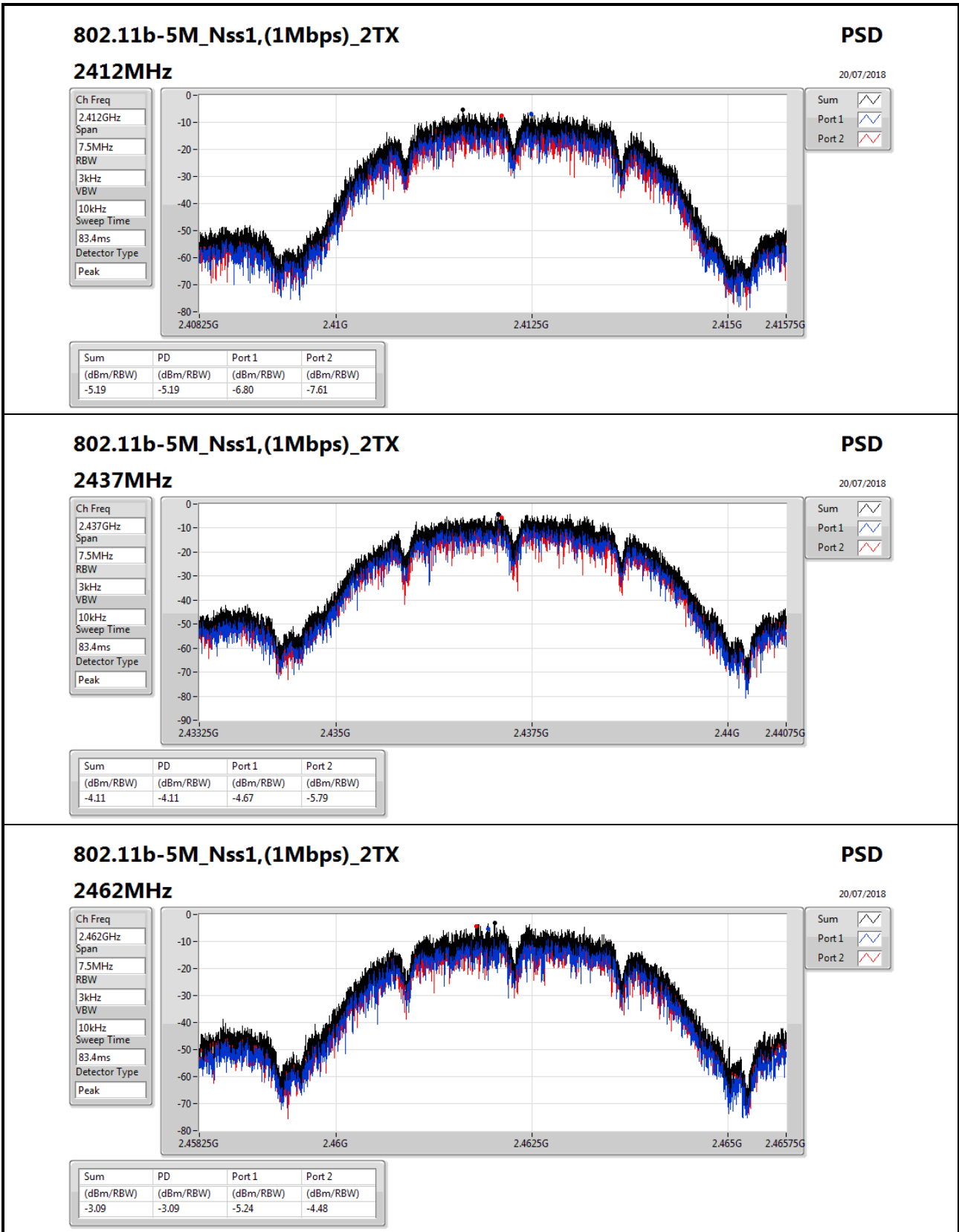
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-6.80	-7.61	-5.19	0.99
2437MHz	Pass	13.01	-4.67	-5.79	-4.11	0.99
2462MHz	Pass	13.01	-5.24	-4.48	-3.09	0.99
802.11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-6.78	-6.91	-6.00	0.99
2437MHz	Pass	13.01	-7.23	-7.72	-5.47	0.99
2462MHz	Pass	13.01	-7.37	-6.60	-4.94	0.99
802.11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-7.83	-8.86	-6.86	0.99
2437MHz	Pass	13.01	-6.74	-8.09	-5.92	0.99
2462MHz	Pass	13.01	-8.15	-7.59	-6.11	0.99
802.11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-14.99	-15.23	-13.68	0.99
2437MHz	Pass	13.01	-7.30	-9.47	-6.80	0.99
2462MHz	Pass	13.01	-15.85	-15.62	-14.57	0.99
802.11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-4.89	-7.32	-4.50	0.99
2437MHz	Pass	13.01	-4.49	-4.21	-2.22	0.99
2462MHz	Pass	13.01	-6.45	-6.44	-4.34	0.99
802.11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-8.87	-9.24	-7.82	0.99
2437MHz	Pass	13.01	-4.93	-5.16	-3.70	0.99
2462MHz	Pass	13.01	-8.23	-8.21	-7.09	0.99
802.11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-



Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
2412MHz	Pass	13.01	-10.27	-11.76	-9.18	0.99
2437MHz	Pass	13.01	-7.29	-8.76	-7.08	0.99
2462MHz	Pass	13.01	-10.11	-9.99	-8.73	0.99
802.11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-19.20	-20.65	-19.03	0.99
2437MHz	Pass	13.01	-14.56	-14.53	-12.88	0.99
2462MHz	Pass	13.01	-21.18	-21.47	-19.59	0.99
802.11n HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-8.78	-8.98	-5.89	0.99
2437MHz	Pass	13.01	-6.33	-7.74	-5.25	0.99
2462MHz	Pass	13.01	-10.92	-10.23	-8.18	0.99
802.11n HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-9.47	-9.27	-7.24	0.99
2437MHz	Pass	13.01	-8.17	-7.64	-6.84	0.99
2462MHz	Pass	13.01	-16.29	-15.70	-14.55	0.99
802.11n HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-11.62	-14.79	-11.55	0.99
2437MHz	Pass	13.01	-10.92	-11.23	-9.48	0.99
2462MHz	Pass	13.01	-17.38	-16.80	-15.92	0.99
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	13.01	-19.42	-20.94	-18.52	0.99
2437MHz	Pass	13.01	-15.48	-15.30	-14.01	0.99
2462MHz	Pass	13.01	-21.31	-22.04	-20.17	0.99
802.11n HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz	Pass	13.01	-24.24	-23.57	-22.81	0.99
2437MHz	Pass	13.01	-18.41	-18.18	-16.22	0.99
2457MHz	Pass	13.01	-23.21	-25.32	-22.73	0.99
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	13.01	-28.08	-28.36	-26.02	0.99
2437MHz	Pass	13.01	-23.21	-24.08	-21.08	0.99
2452MHz	Pass	13.01	-26.34	-26.82	-24.90	0.99

DG = Directional Gain; RBW=3kHz;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;



### 802.11b-5M\_Nss1,(1Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
7.5MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
83.4ms

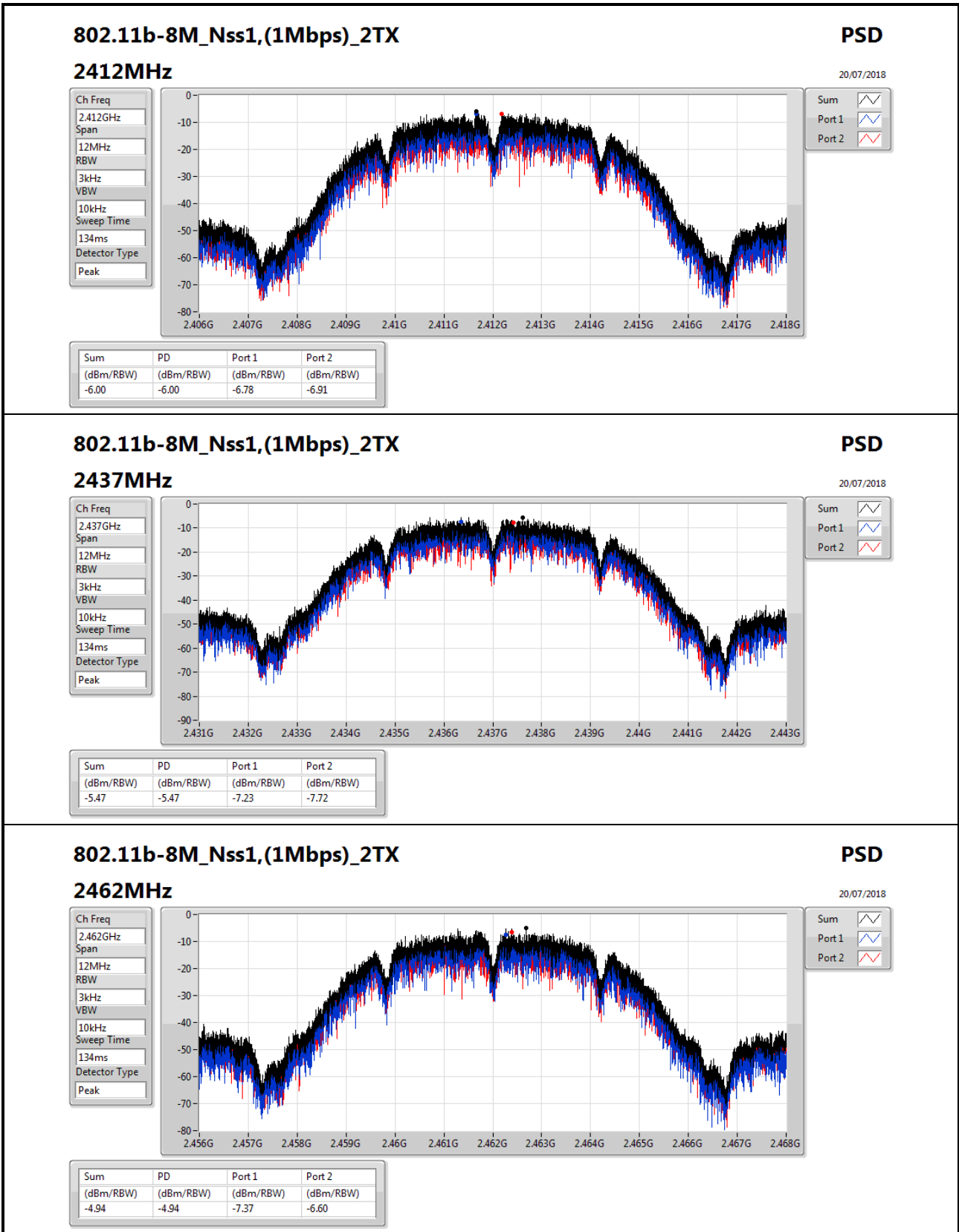
Detector Type  
Peak

Sum

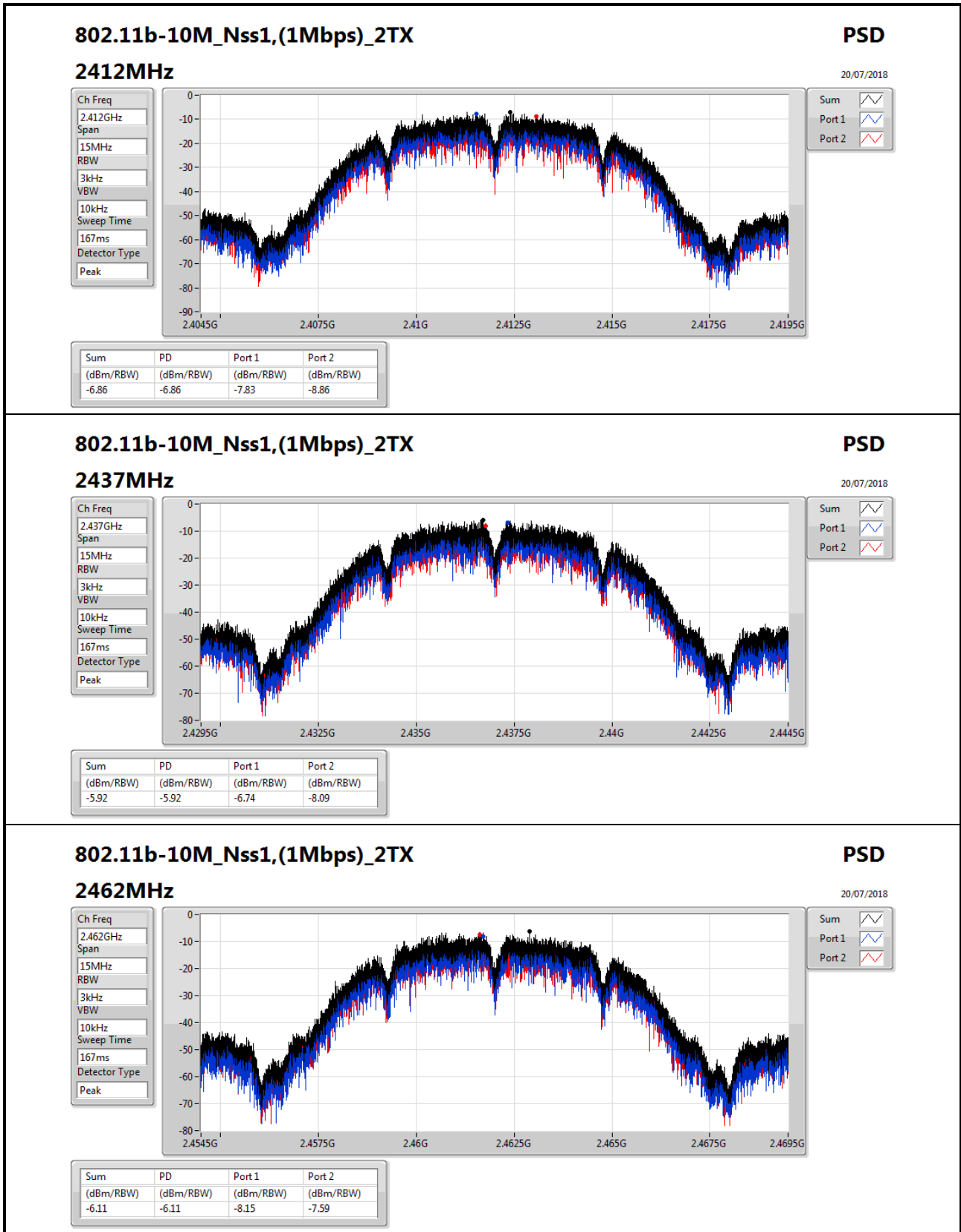
Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-3.09	-3.09	-5.24	-4.48







### 802.11b-10M\_Nss1,(1Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
15MHz

RBW  
3kHz

VBW  
10kHz

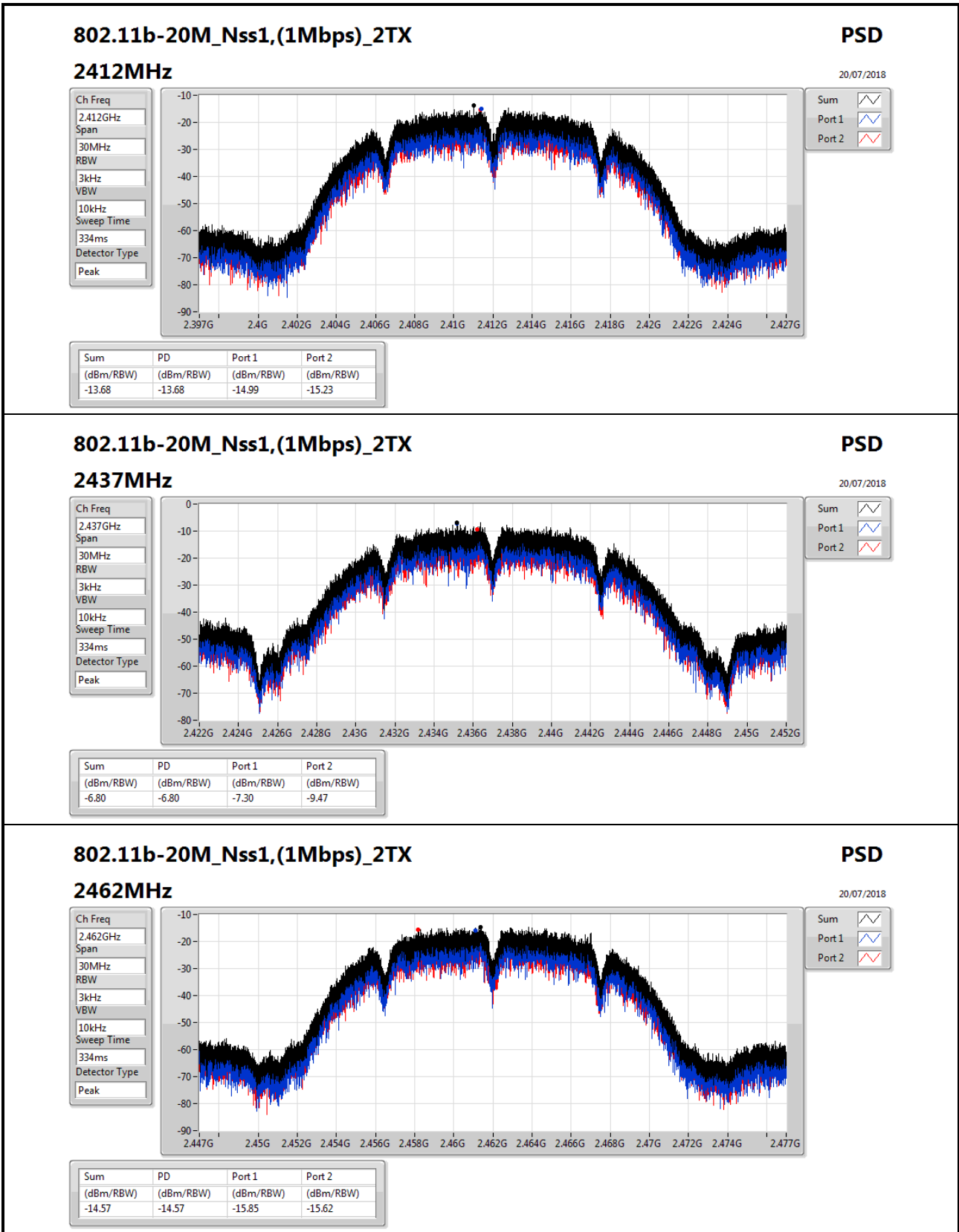
Sweep Time  
167ms

Detector Type  
Peak

Sum

Port 1

Port 2



### 802.11b-20M\_Nss1,(1Mbps)\_2TX

#### 2462MHz

**PSD**

20/07/2018

Ch Freq  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

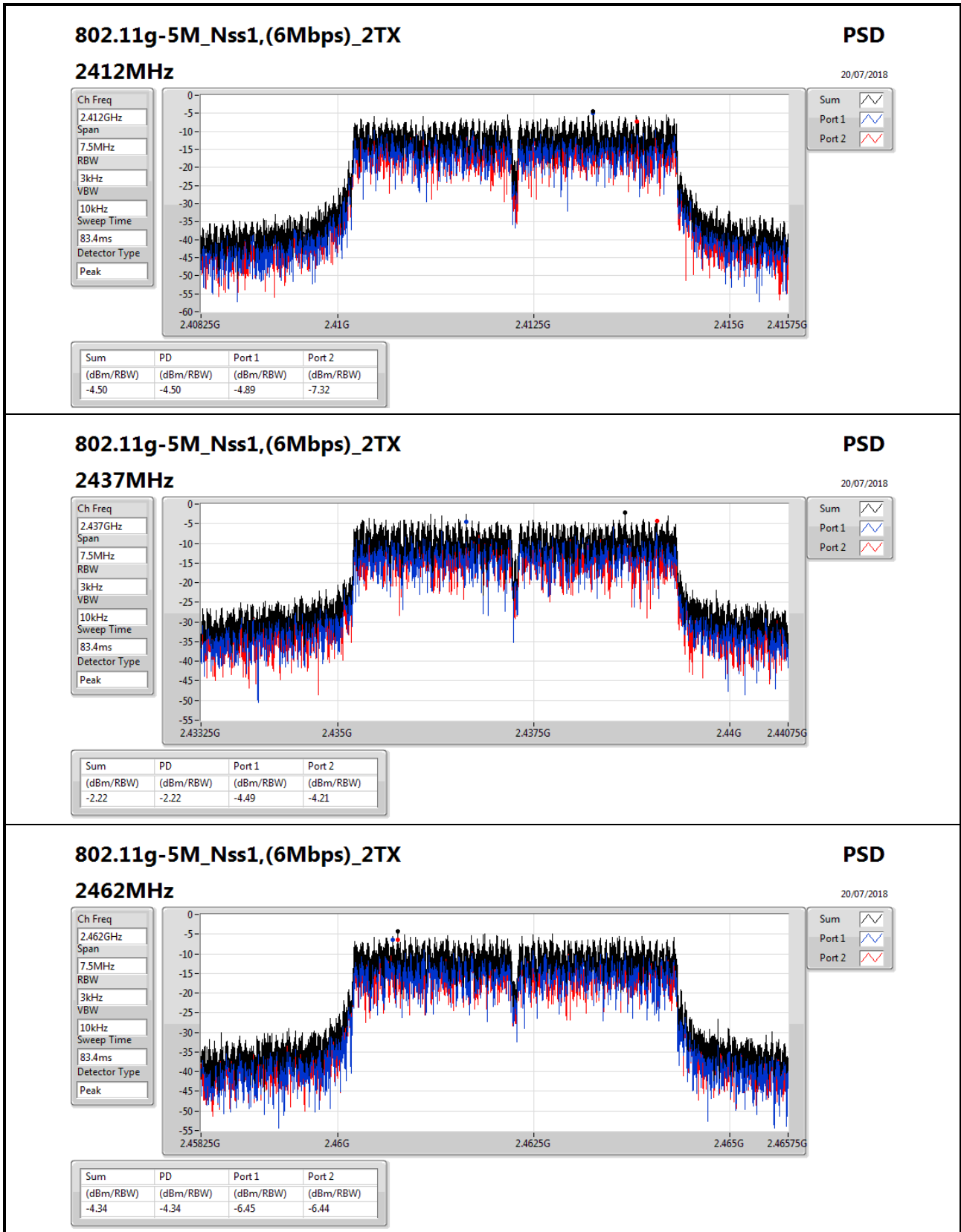
Sweep Time  
334ms

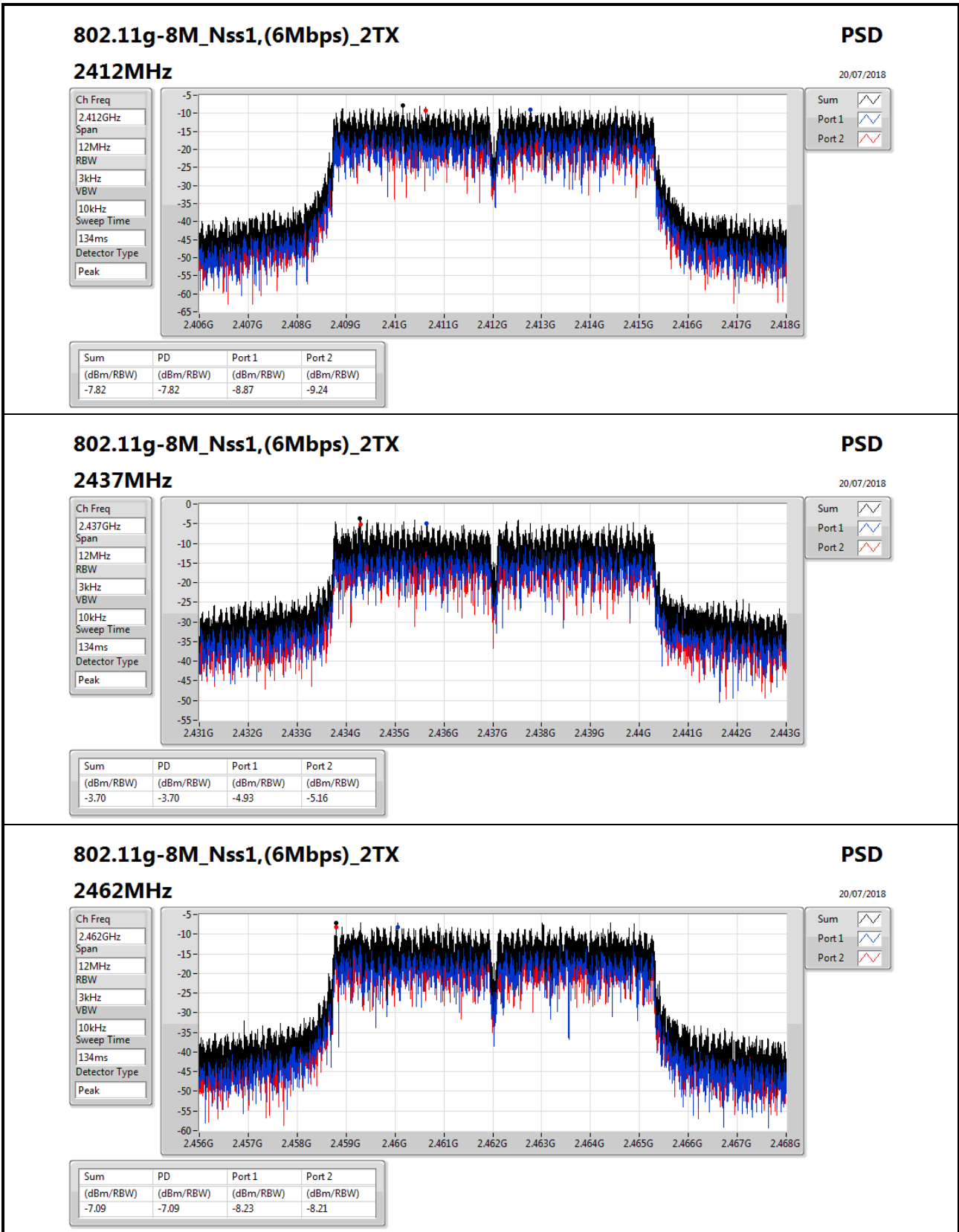
Detector Type  
Peak

Sum

Port 1

Port 2





### 802.11g-8M\_Nss1,(6Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
12MHz

RBW  
3kHz

VBW  
10kHz

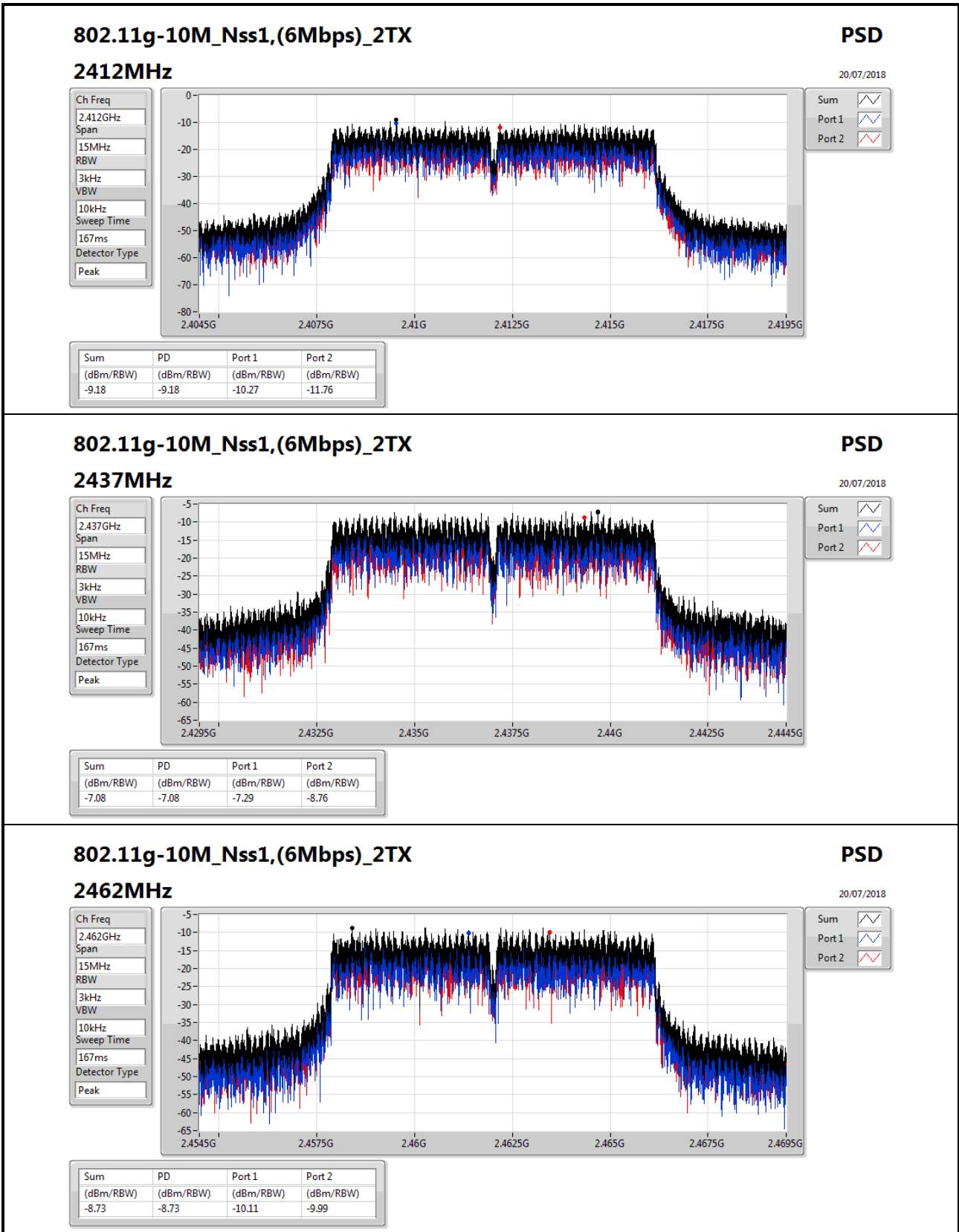
Sweep Time  
134ms

Detector Type  
Peak

Sum

Port 1

Port 2



### 802.11g-10M\_Nss1,(6Mbps)\_2TX

#### 2462MHz

**PSD**  
20/07/2018

Ch Freq  
2.462GHz

Span  
15MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
167ms

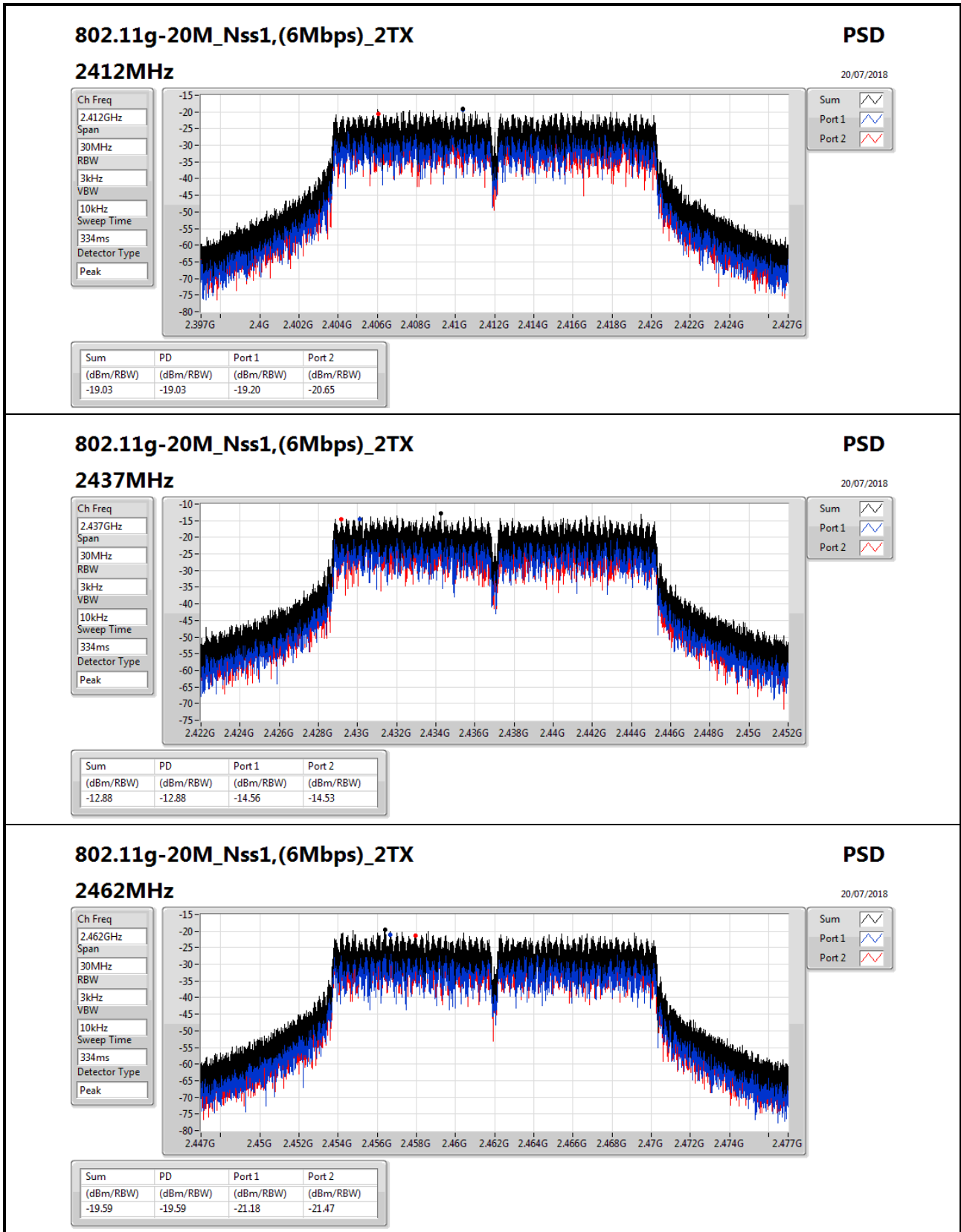
Detector Type  
Peak

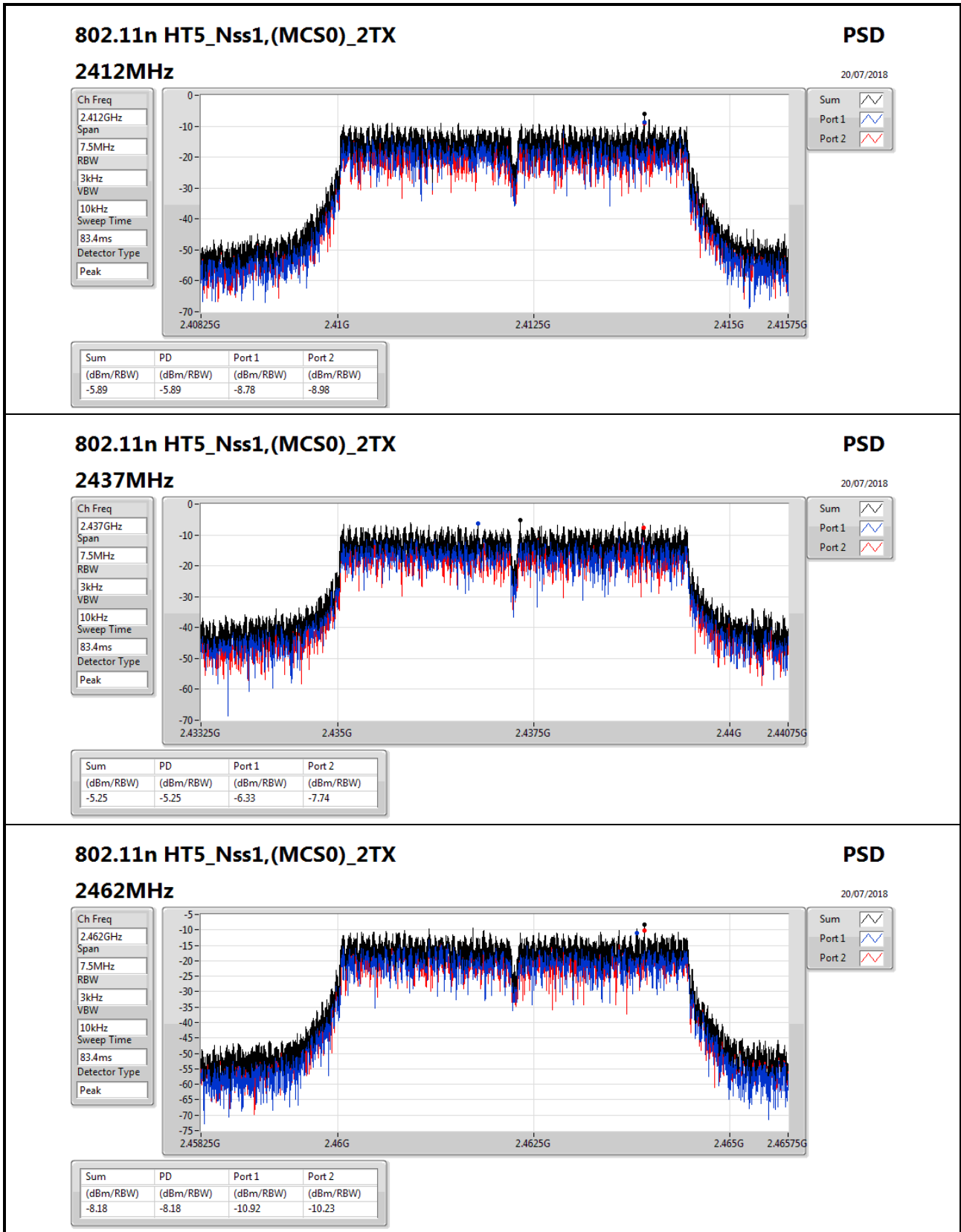
Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.73	-8.73	-10.11	-9.99





### 802.11n HT5\_Nss1,(MCS0)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
7.5MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
83.4ms

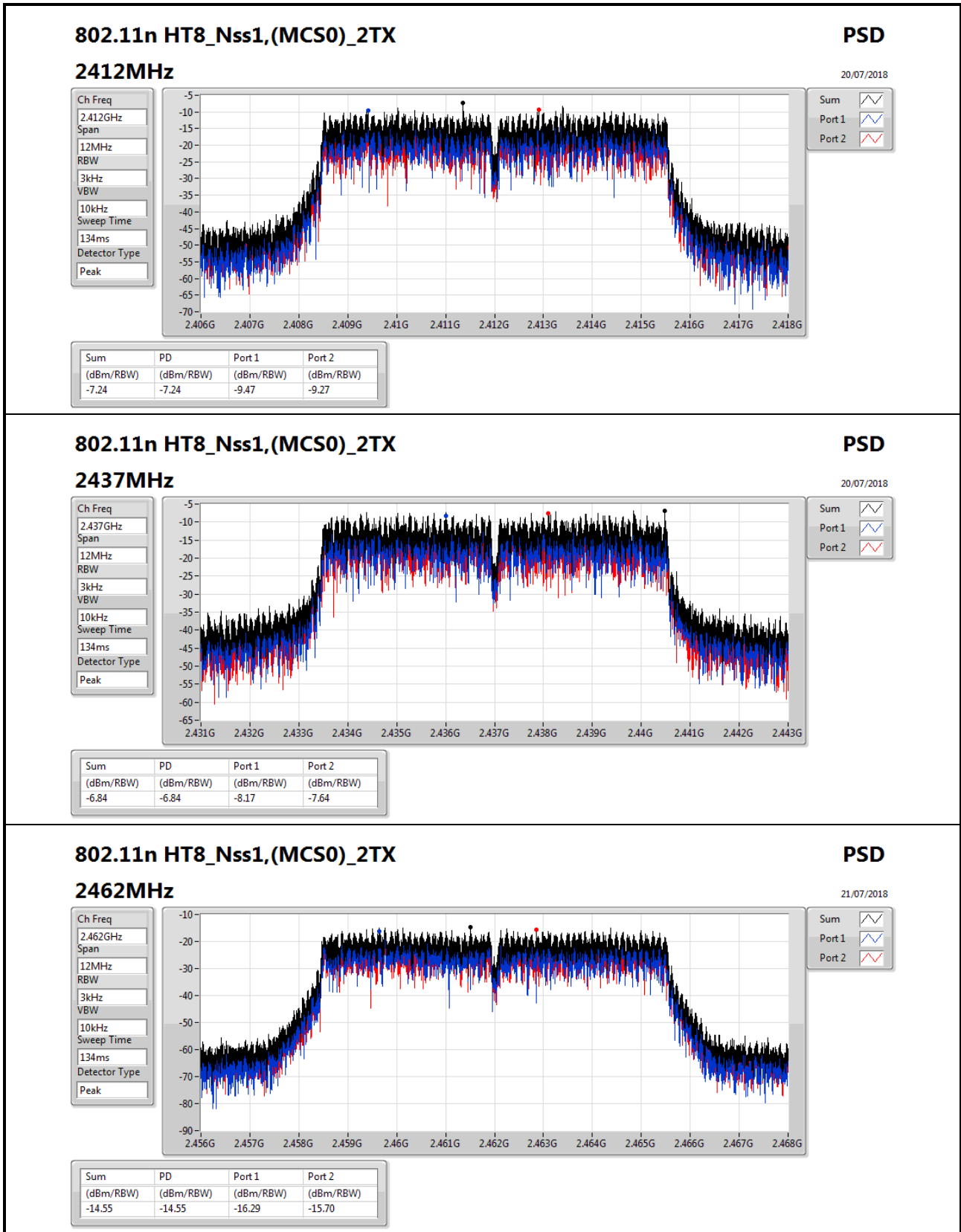
Detector Type  
Peak

Sum

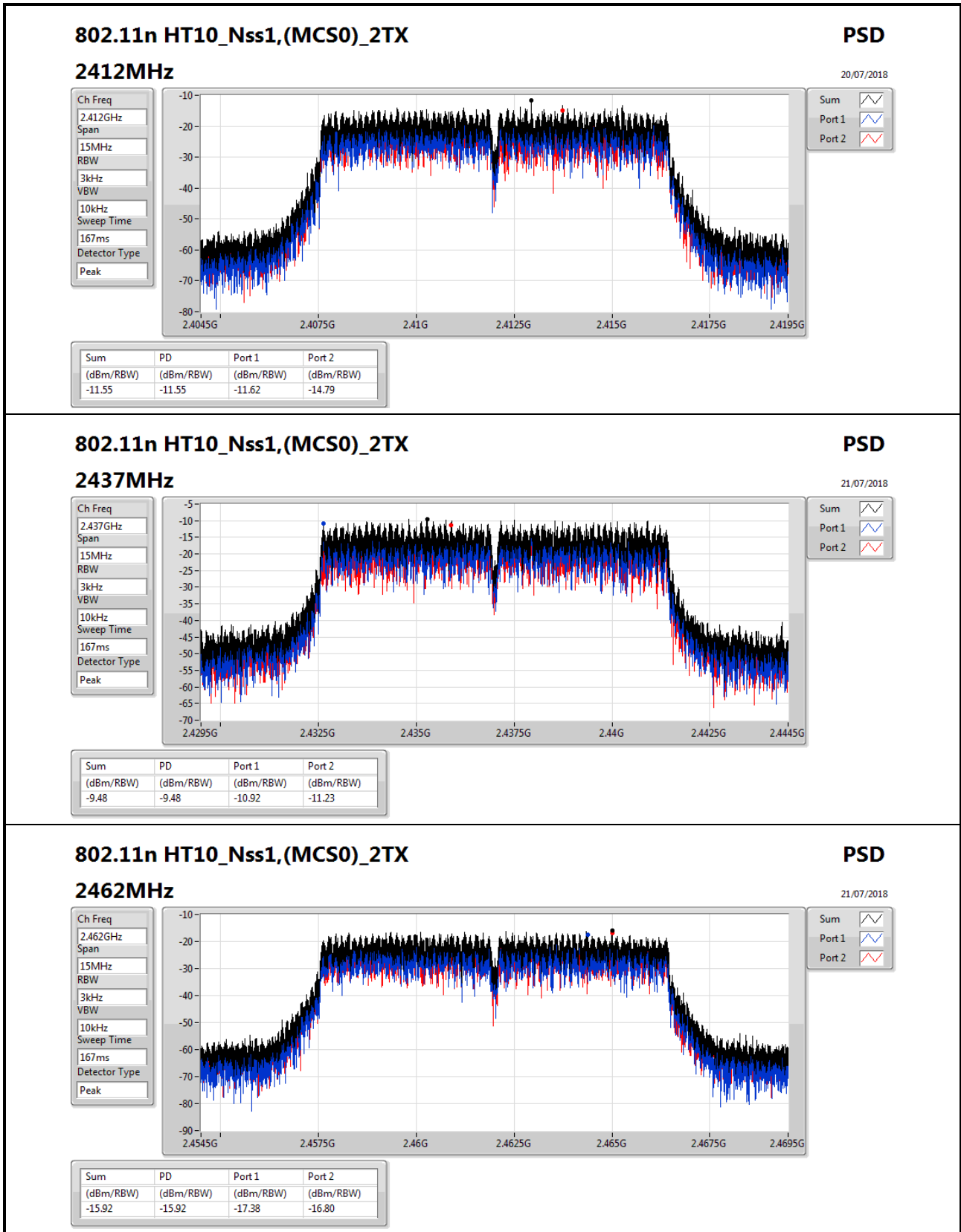
Port 1

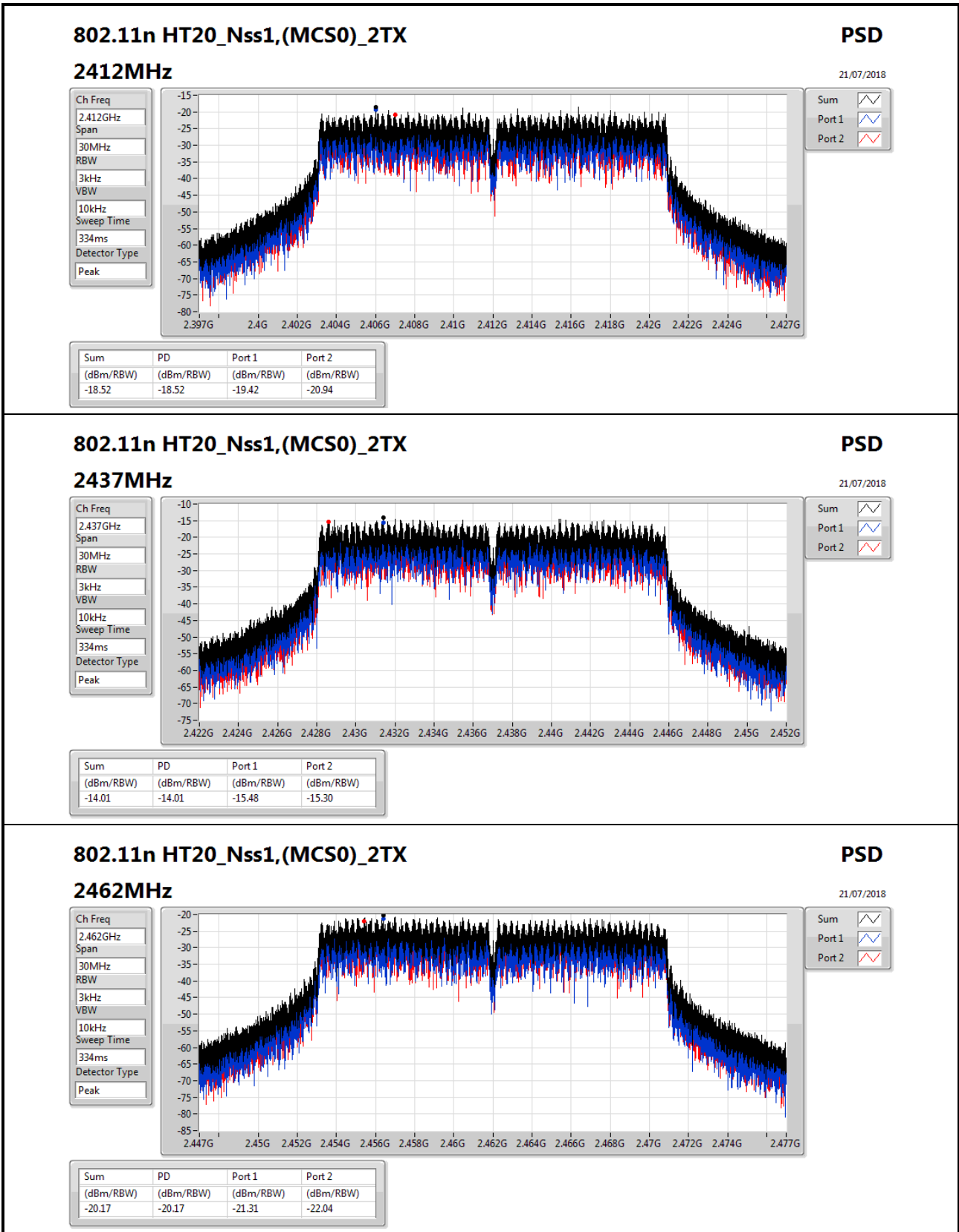
Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.18	-8.18	-10.92	-10.23









### 802.11n HT20\_Nss1,(MCS0)\_2TX

#### 2462MHz

### PSD

21/07/2018

Ch Freq  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

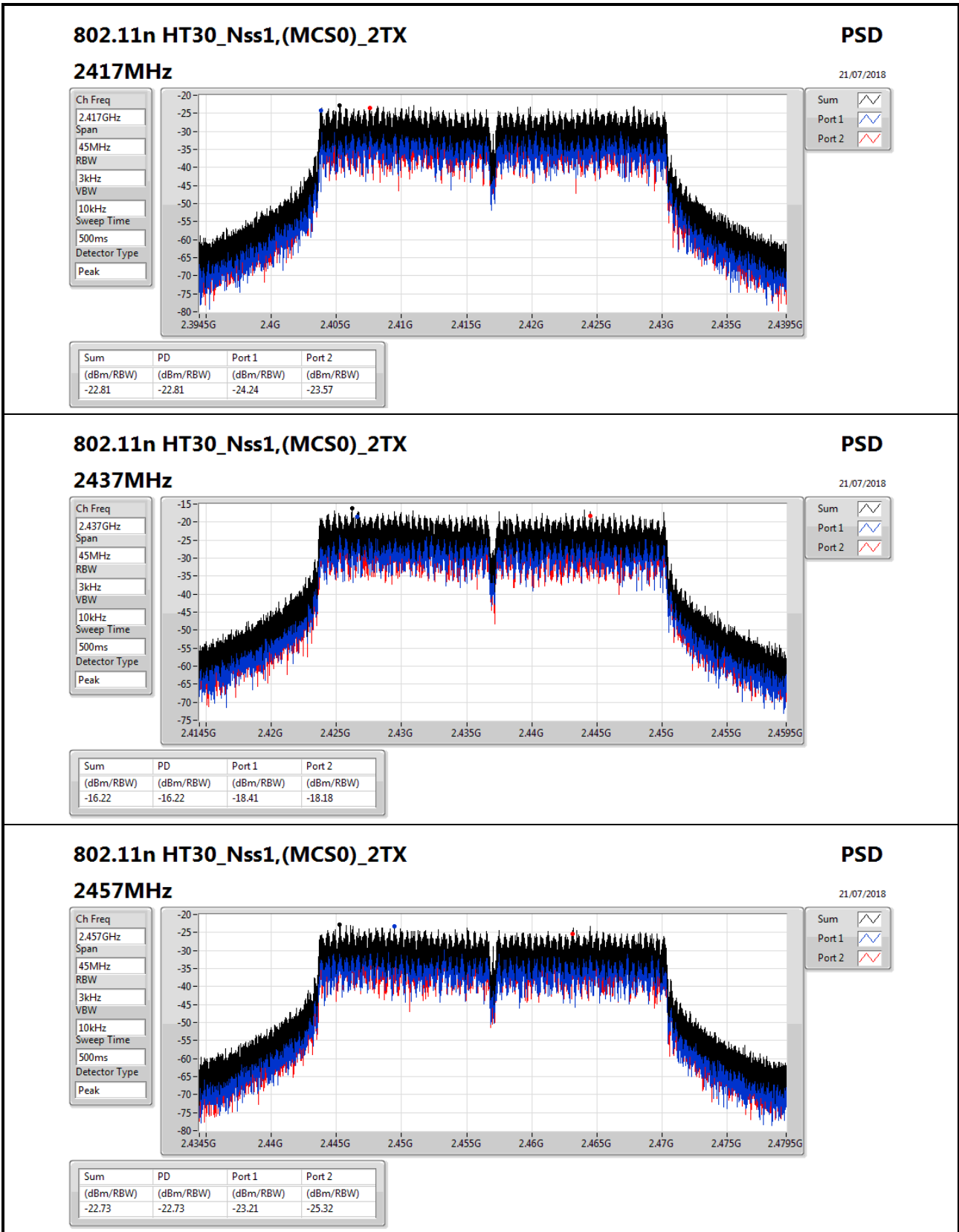
Sweep Time  
334ms

Detector Type  
Peak

Sum

Port 1

Port 2



### 802.11n HT30\_Nss1,(MCS0)\_2TX

#### 2457MHz

### PSD

21/07/2018

Ch Freq  
2.457GHz

Span  
45MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
500ms

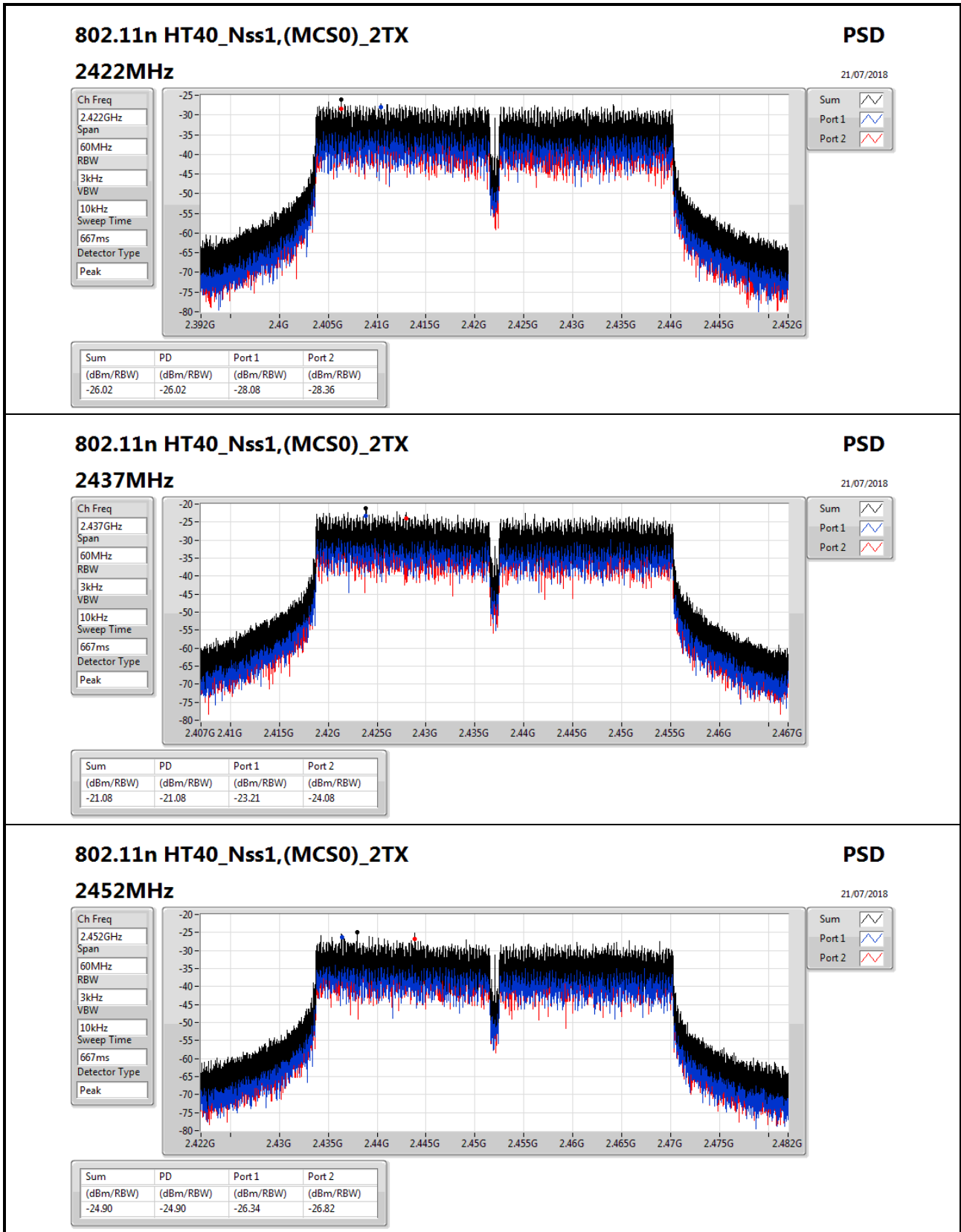
Detector Type  
Peak

Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-22.73	-22.73	-23.21	-25.32



### 802.11n HT40\_Nss1,(MCS0)\_2TX

#### 2452MHz

### PSD

21/07/2018

Ch Freq  
2.452GHz

Span  
60MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
667ms

Detector Type  
Peak

Sum

Port 1

Port 2



Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b-5M_Nss1,(1Mbps)_2TX	-3.09
802.11b-8M_Nss1,(1Mbps)_2TX	-4.94
802.11b-10M_Nss1,(1Mbps)_2TX	-5.92
802.11b-20M_Nss1,(1Mbps)_2TX	-6.80
802.11g-5M_Nss1,(6Mbps)_2TX	-2.22
802.11g-8M_Nss1,(6Mbps)_2TX	-3.70
802.11g-10M_Nss1,(6Mbps)_2TX	-7.08
802.11g-20M_Nss1,(6Mbps)_2TX	-12.88
802.11n HT5_Nss1,(MCS0)_2TX	-5.25
802.11n HT8_Nss1,(MCS0)_2TX	-6.84
802.11n HT10_Nss1,(MCS0)_2TX	-9.48
802.11n HT20_Nss1,(MCS0)_2TX	-14.01
802.11n HT30_Nss1,(MCS0)_2TX	-16.22
802.11n HT40_Nss1,(MCS0)_2TX	-21.08

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b-5M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-6.80	-7.61	-5.19	-2.01
2437MHz	Pass	16.01	-4.67	-5.79	-4.11	-2.01
2462MHz	Pass	16.01	-5.24	-4.48	-3.09	-2.01
802.11b-8M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-6.78	-6.91	-6.00	-2.01
2437MHz	Pass	16.01	-7.23	-7.72	-5.47	-2.01
2462MHz	Pass	16.01	-7.37	-6.60	-4.94	-2.01
802.11b-10M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-7.83	-8.86	-6.86	-2.01
2437MHz	Pass	16.01	-6.74	-8.09	-5.92	-2.01
2462MHz	Pass	16.01	-8.15	-7.59	-6.11	-2.01
802.11b-20M_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-14.99	-15.23	-13.68	-2.01
2437MHz	Pass	16.01	-7.30	-9.47	-6.80	-2.01
2462MHz	Pass	16.01	-15.85	-15.62	-14.57	-2.01
802.11g-5M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-4.89	-7.32	-4.50	-2.01
2437MHz	Pass	16.01	-4.49	-4.21	-2.22	-2.01
2462MHz	Pass	16.01	-6.45	-6.44	-4.34	-2.01
802.11g-8M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-8.87	-9.24	-7.82	-2.01
2437MHz	Pass	16.01	-4.93	-5.16	-3.70	-2.01
2462MHz	Pass	16.01	-8.23	-8.21	-7.09	-2.01
802.11g-10M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-



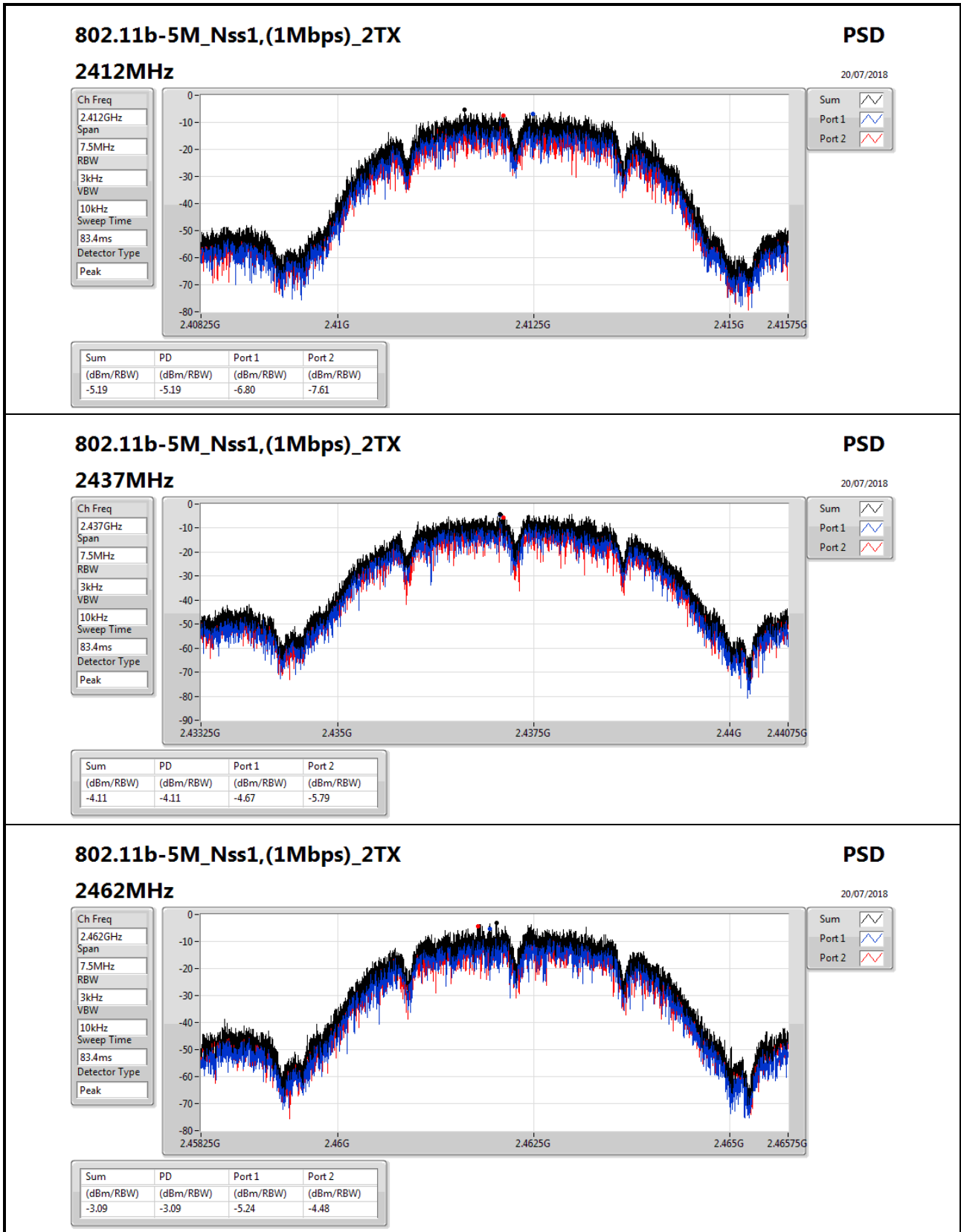
**PSD Result - (Antenna 4)**

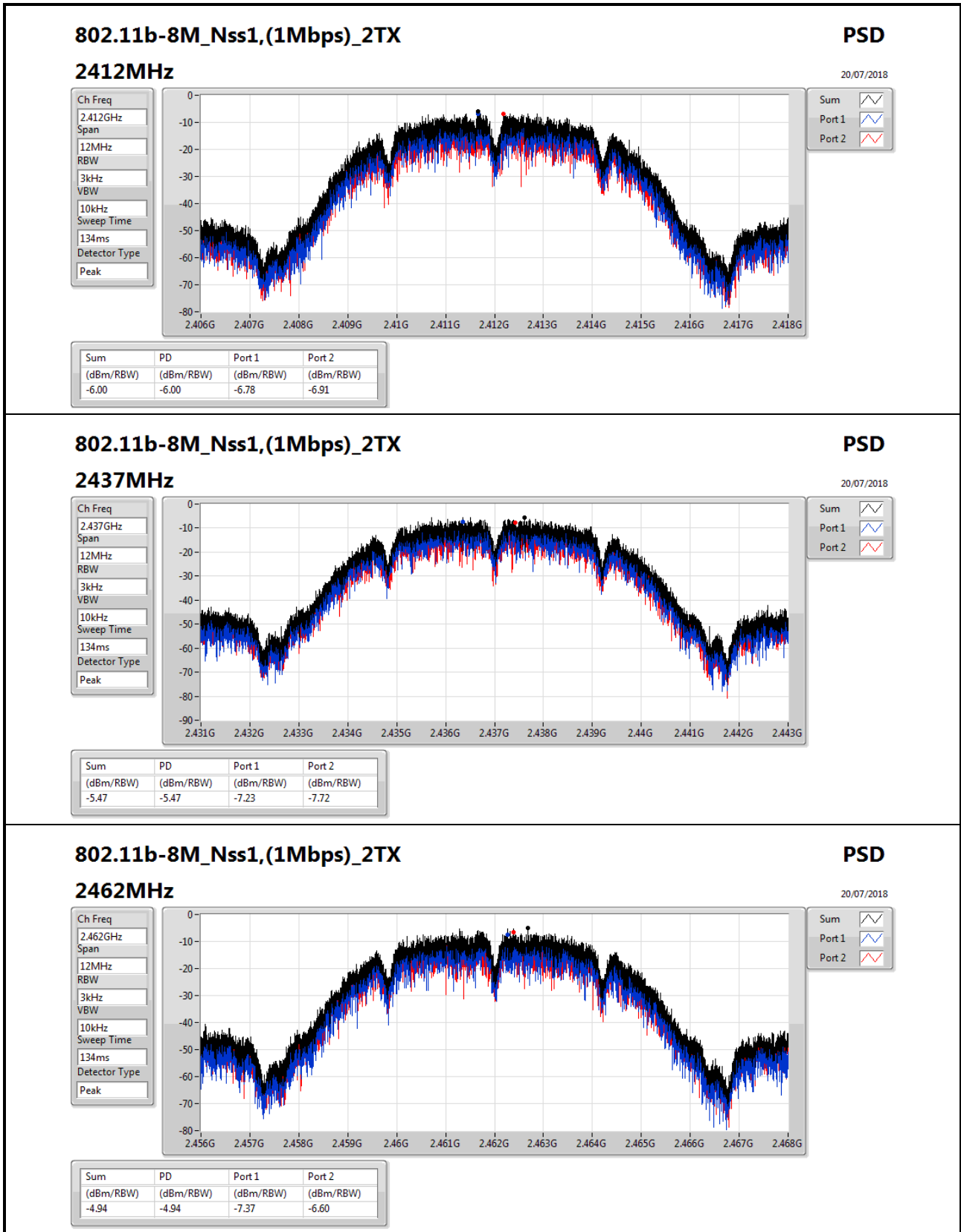
**Appendix D.2**

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
2412MHz	Pass	16.01	-10.27	-11.76	-9.18	-2.01
2437MHz	Pass	16.01	-7.29	-8.76	-7.08	-2.01
2462MHz	Pass	16.01	-10.11	-9.99	-8.73	-2.01
802.11g-20M_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-19.20	-20.65	-19.03	-2.01
2437MHz	Pass	16.01	-14.56	-14.53	-12.88	-2.01
2462MHz	Pass	16.01	-21.18	-21.47	-19.59	-2.01
802.11n HT5_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-8.78	-8.98	-5.89	-2.01
2437MHz	Pass	16.01	-6.33	-7.74	-5.25	-2.01
2462MHz	Pass	16.01	-10.92	-10.23	-8.18	-2.01
802.11n HT8_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-9.47	-9.27	-7.24	-2.01
2437MHz	Pass	16.01	-8.17	-7.64	-6.84	-2.01
2462MHz	Pass	16.01	-16.29	-15.70	-14.55	-2.01
802.11n HT10_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-11.62	-14.79	-11.55	-2.01
2437MHz	Pass	16.01	-10.92	-11.23	-9.48	-2.01
2462MHz	Pass	16.01	-17.38	-16.80	-15.92	-2.01
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	16.01	-19.42	-20.94	-18.52	-2.01
2437MHz	Pass	16.01	-15.48	-15.30	-14.01	-2.01
2462MHz	Pass	16.01	-21.31	-22.04	-20.17	-2.01
802.11n HT30_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2417MHz	Pass	16.01	-24.24	-23.57	-22.81	-2.01
2437MHz	Pass	16.01	-18.41	-18.18	-16.22	-2.01
2457MHz	Pass	16.01	-23.21	-25.32	-22.73	-2.01
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	16.01	-28.08	-28.36	-26.02	-2.01
2437MHz	Pass	16.01	-23.21	-24.08	-21.08	-2.01
2452MHz	Pass	16.01	-26.34	-26.82	-24.90	-2.01

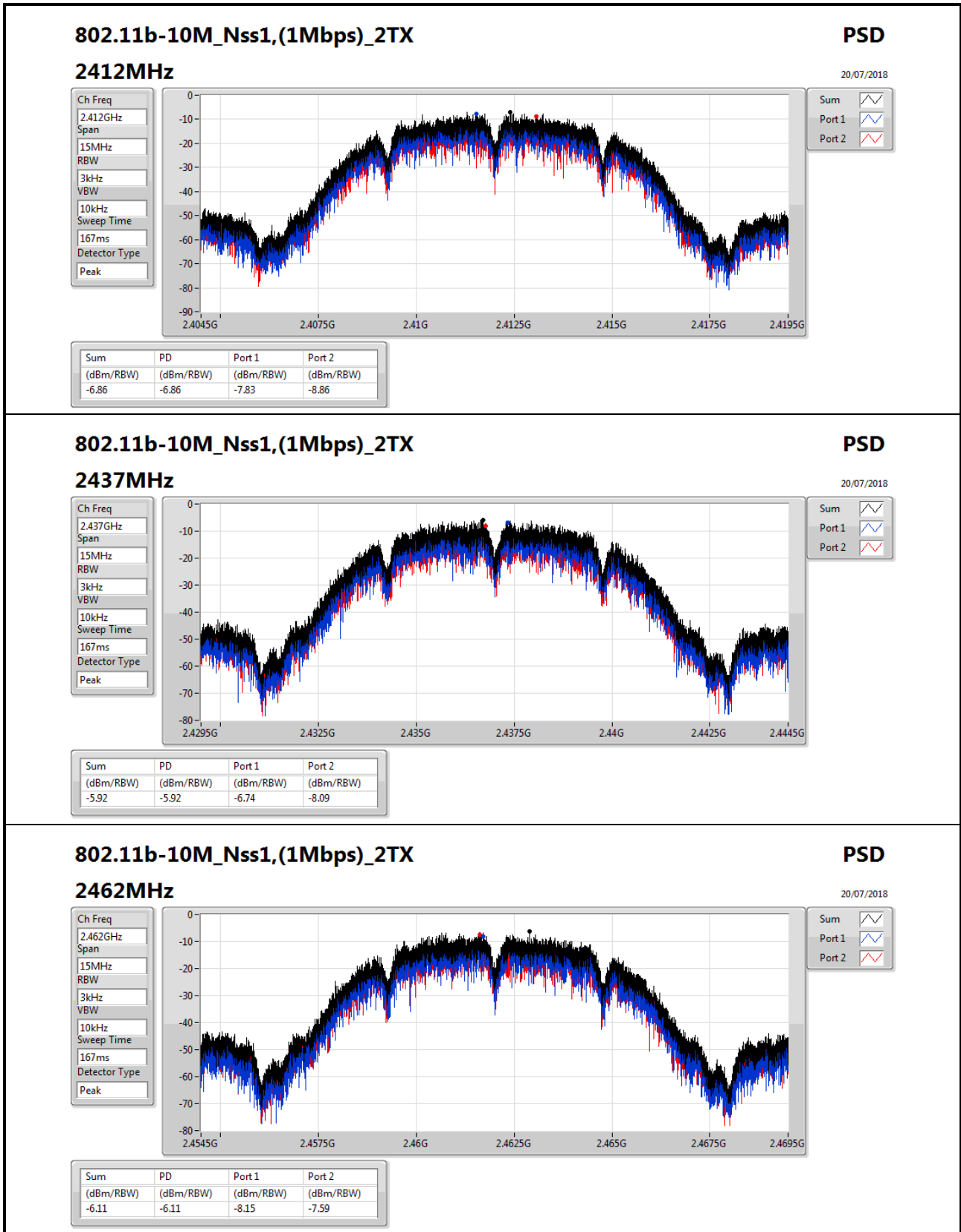
DG = Directional Gain; RBW=3kHz;

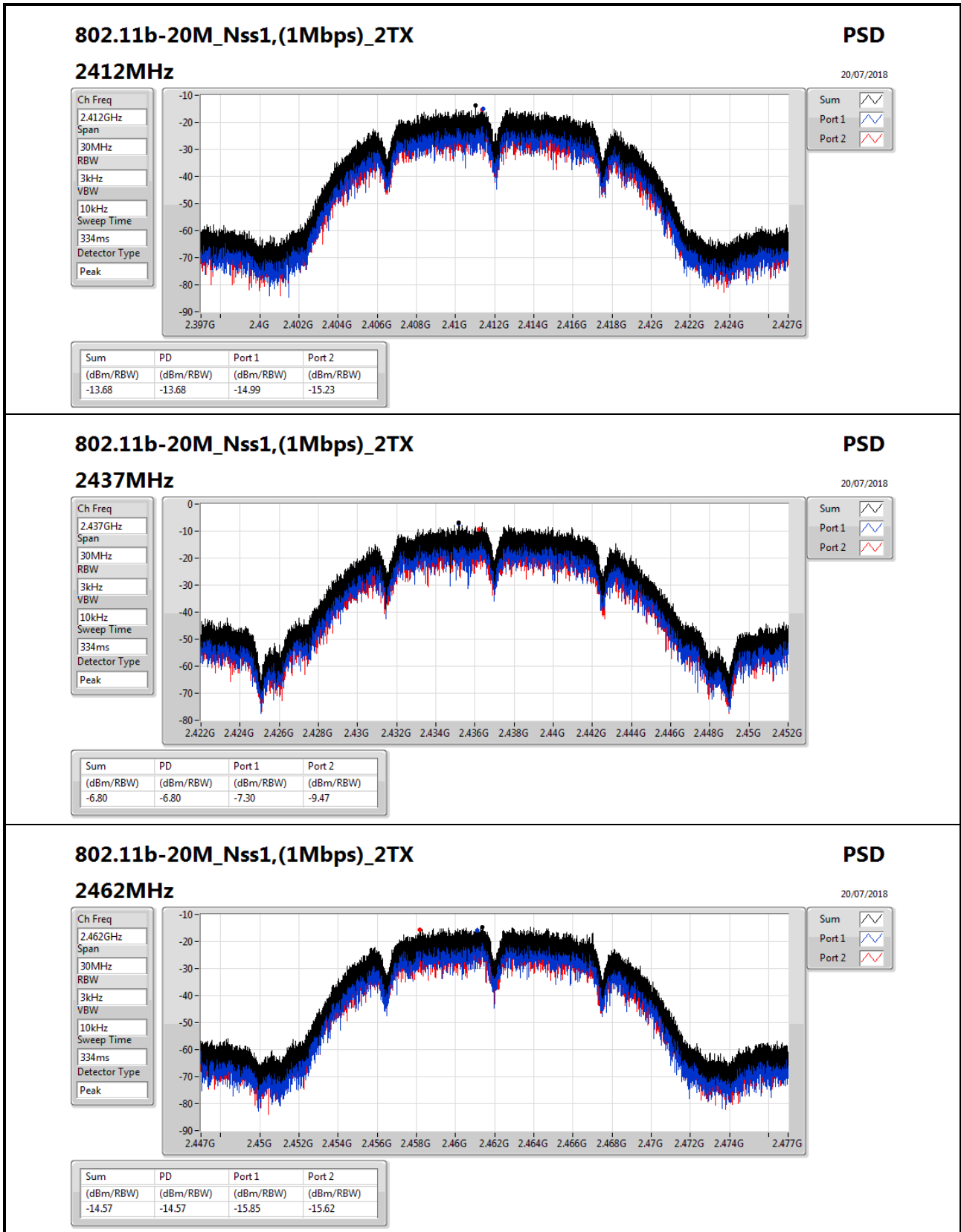
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;











### 802.11b-20M\_Nss1,(1Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
334ms

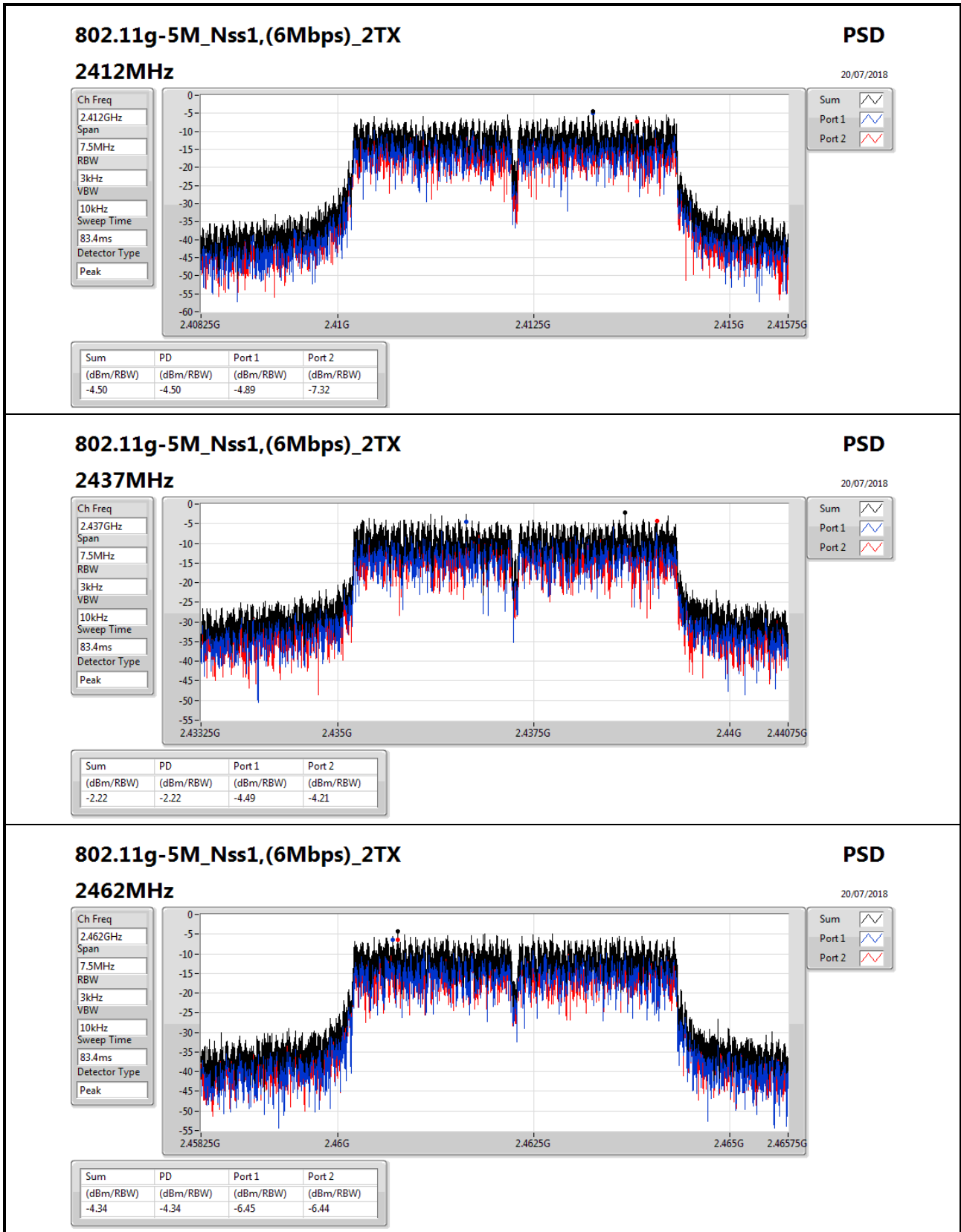
Detector Type  
Peak

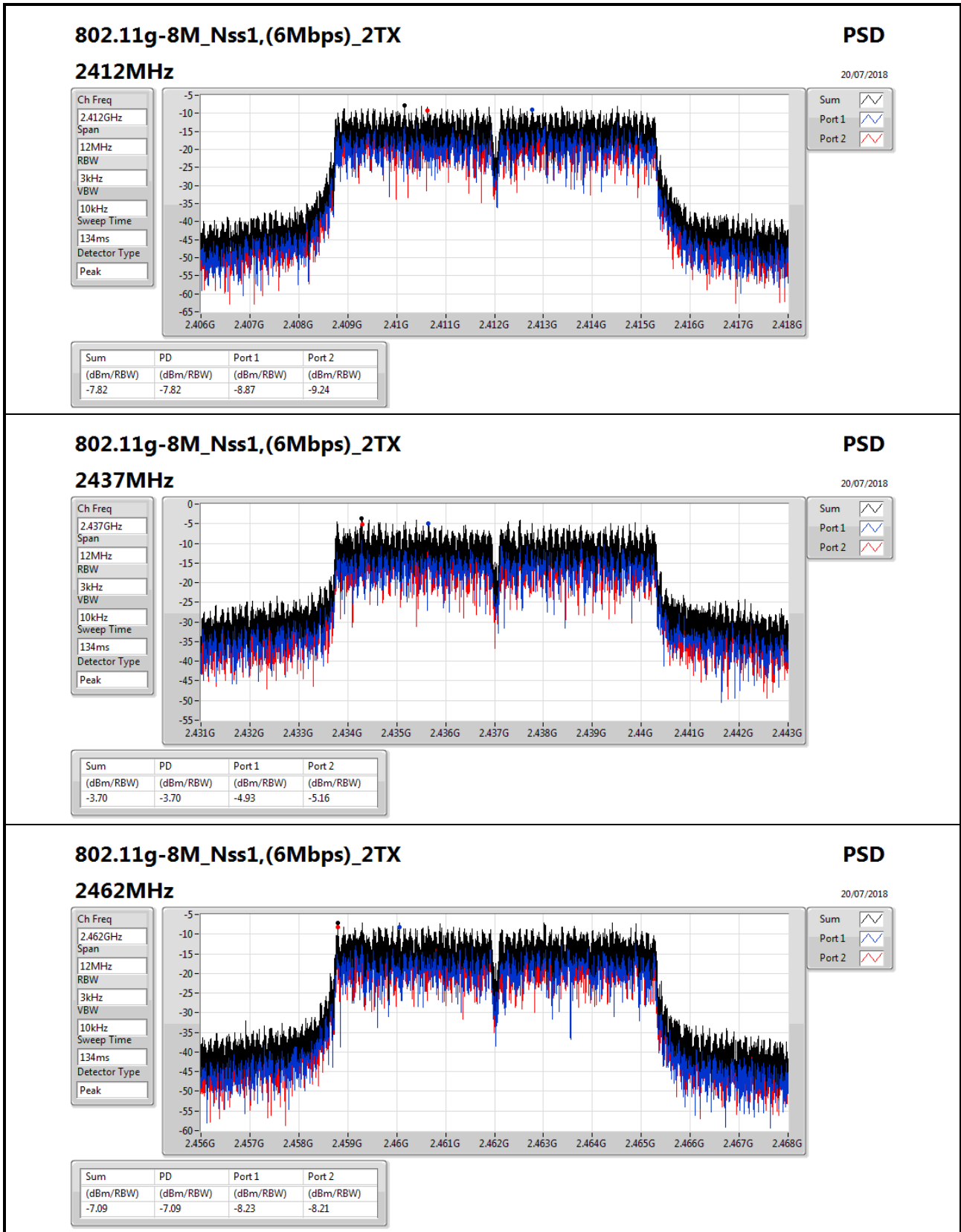
Sum

Port 1

Port 2

Sum (dBm/RBW)	PD (dBm/RBW)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)
-14.57	-14.57	-15.85	-15.62





### 802.11g-8M\_Nss1,(6Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
12MHz

RBW  
3kHz

VBW  
10kHz

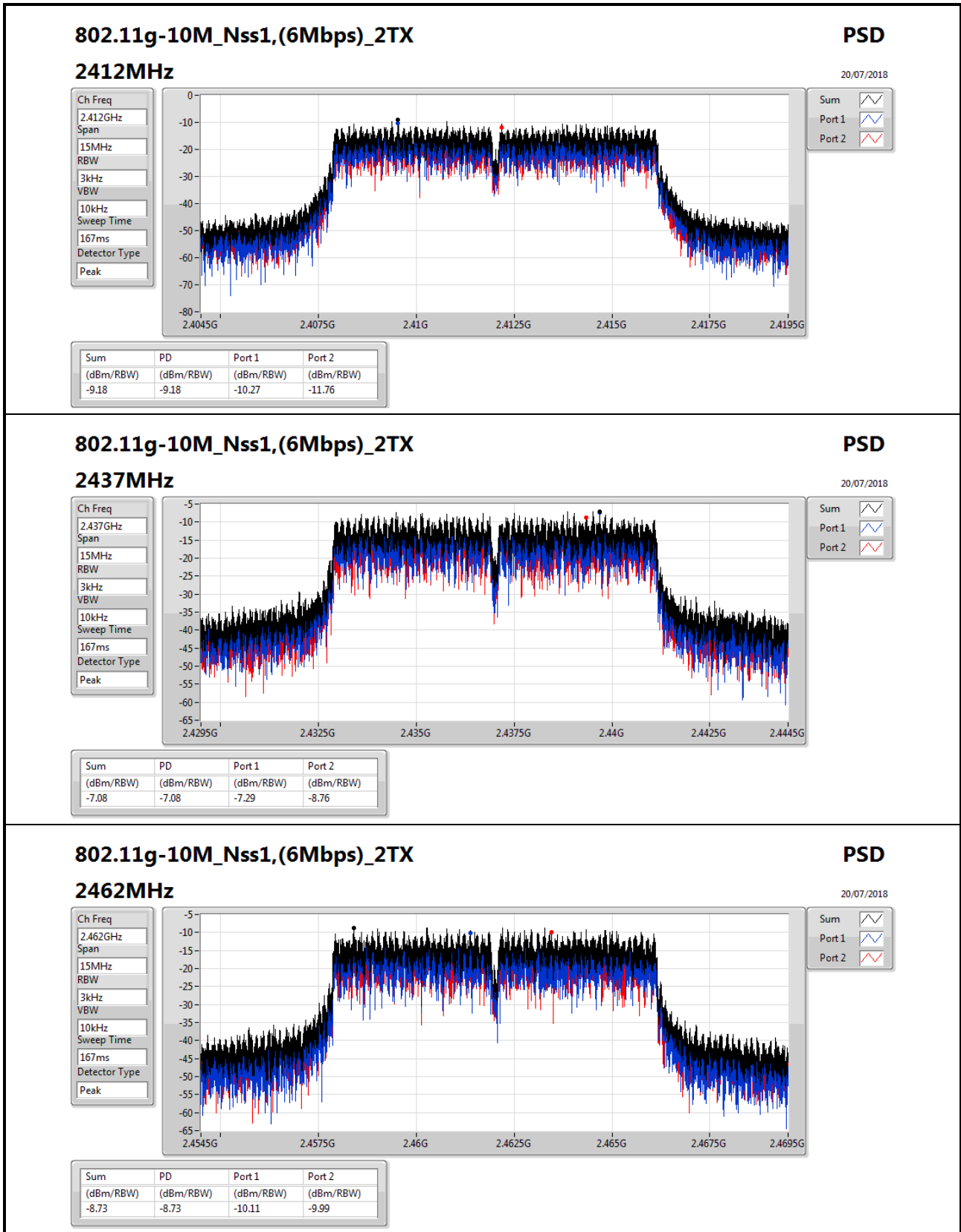
Sweep Time  
134ms

Detector Type  
Peak

Sum

Port 1

Port 2



### 802.11g-10M\_Nss1,(6Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
15MHz

RBW  
3kHz

VBW  
10kHz

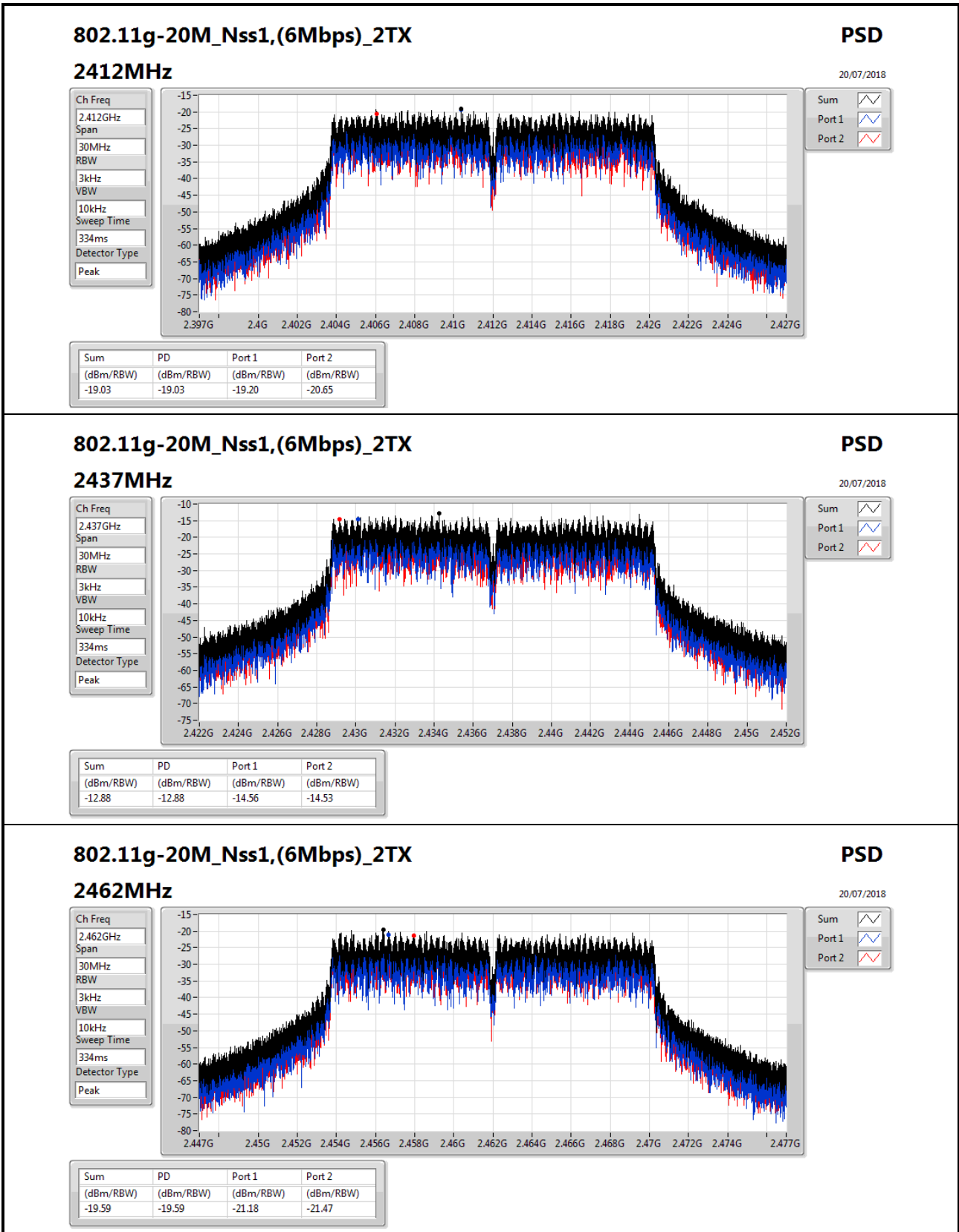
Sweep Time  
167ms

Detector Type  
Peak

Sum

Port 1

Port 2



### 802.11g-20M\_Nss1,(6Mbps)\_2TX

#### 2462MHz

### PSD

20/07/2018

Ch Freq  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
334ms

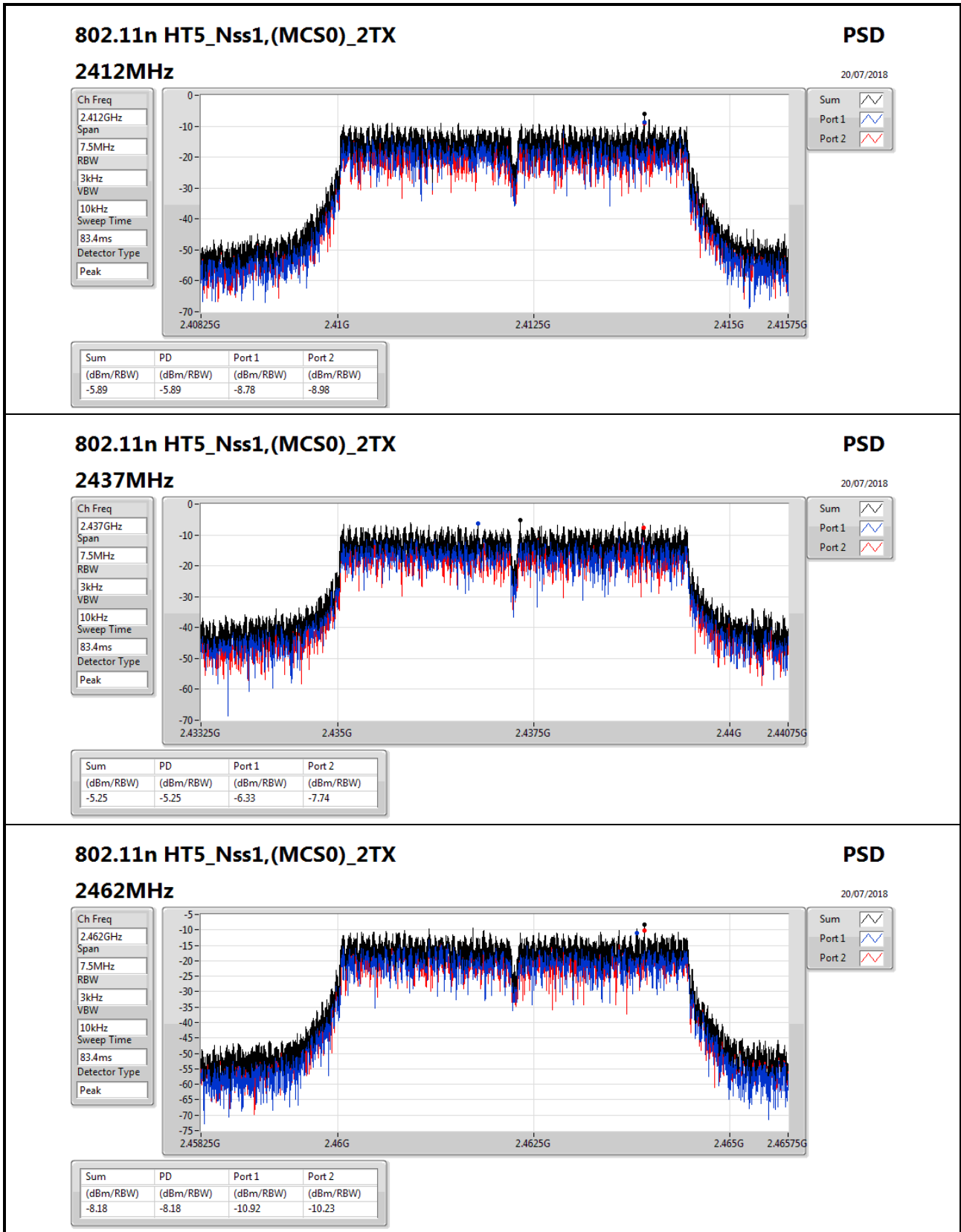
Detector Type  
Peak

Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-19.59	-19.59	-21.18	-21.47



### 802.11n HT5\_Nss1,(MCS0)\_2TX

#### 2462MHz

**PSD**  
20/07/2018

Ch Freq  
2.462GHz

Span  
7.5MHz

RBW  
3kHz

VBW  
10kHz

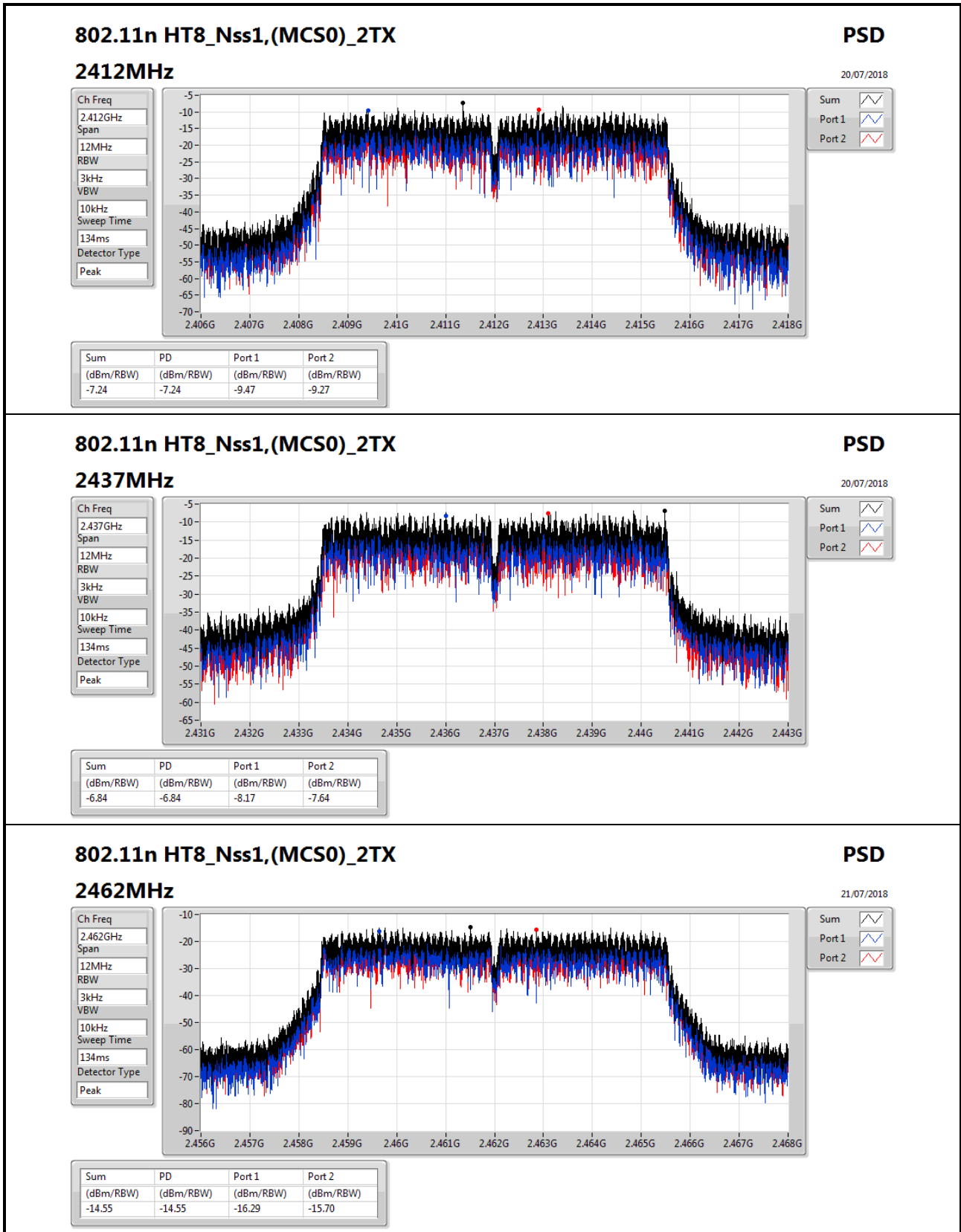
Sweep Time  
83.4ms

Detector Type  
Peak

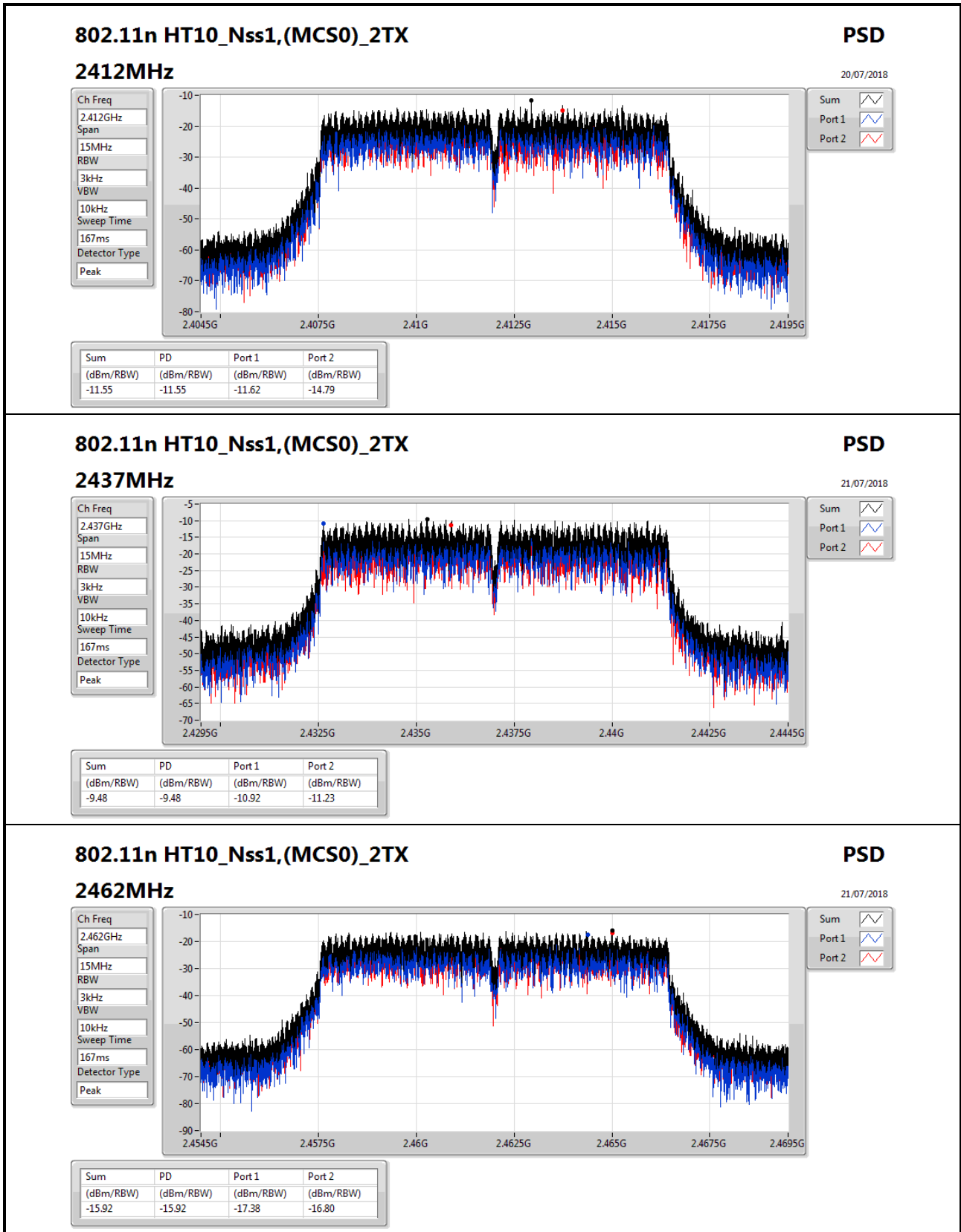
Sum

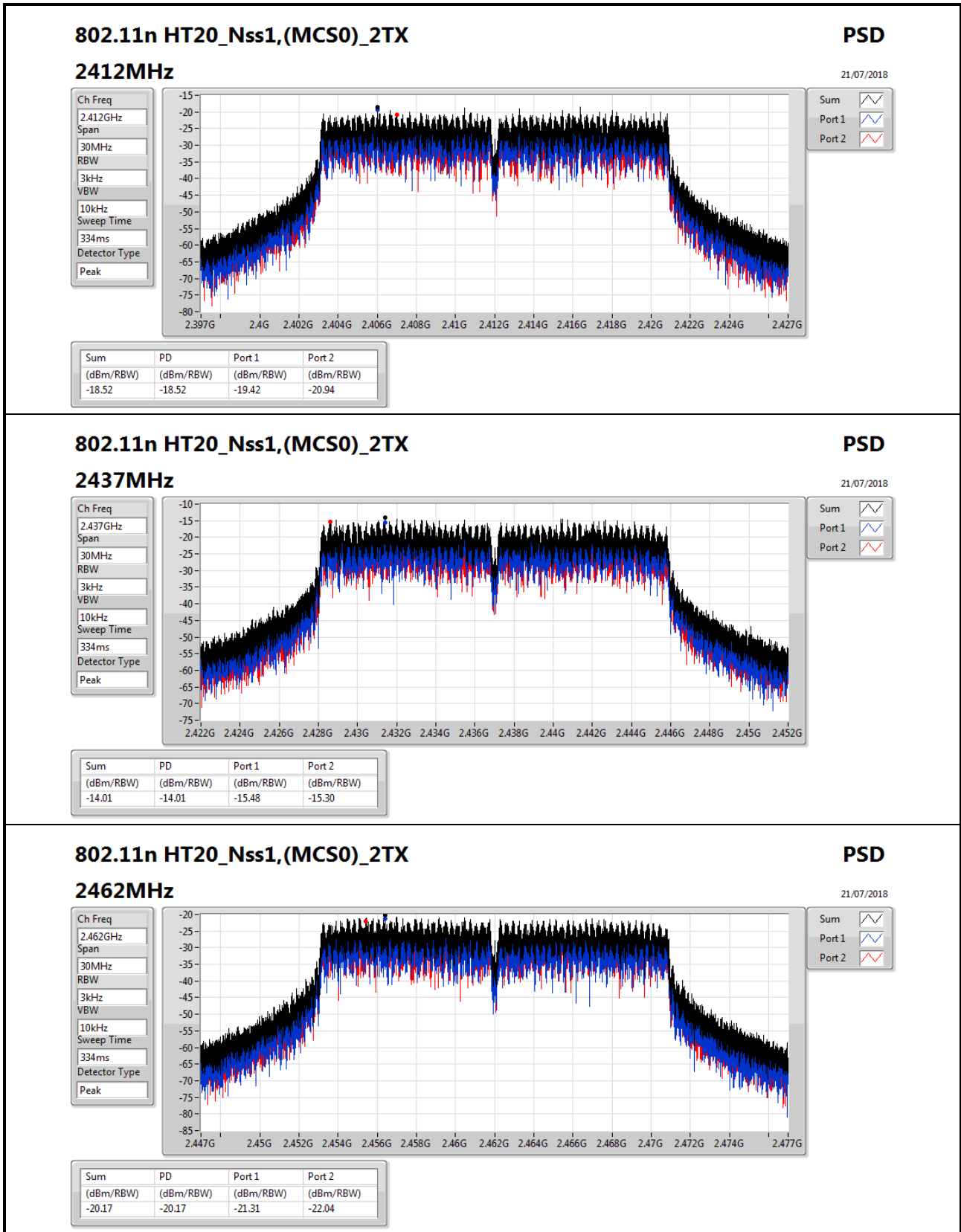
Port 1

Port 2









### 802.11n HT20\_Nss1,(MCS0)\_2TX

#### 2462MHz

### PSD

21/07/2018

Ch Freq  
2.462GHz

Span  
30MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
334ms

Detector Type  
Peak

Sum

Port 1

Port 2