



# FCC Test Report

**Equipment** : Wireless-AX11000 Tri-band Gigabit Router  
**Brand Name** : ASUS  
**Model No.** : RT-AX95U, RT-AX11000  
**FCC ID** : MSQ-RTHR00  
**Standard** : 47 CFR FCC Part 15.407  
**Operating Band** : 5150 MHz – 5250 MHz  
5725 MHz – 5850 MHz  
**Applicant** : ASUSTeK COMPUTER INC.  
4F, No. 150, Li-Te Rd., Peitou, Taipei 112, Taiwan  
**Manufacturer (1)** : ASKEY TECHNOLOGY (JIANG SU) LTD  
NO1388, Jiao Tong Road, Wujiang Economic  
Technological Development Area Jiangsu Province  
215200 China  
**Manufacturer (2)** : Compal Networking (KunShan) Co., LTD.  
No. 520, Nabbang Rd., Economic & Technical  
Development Zone Kunshan, Jiangsu Province China  
**Function** :  Outdoor;  Indoor;  Fixed P2P  
 Client

The product sample received on Jan. 18, 2018 and completely tested on Feb. 09, 2018. 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.

  
Cliff Chang  
SPORTON INTERNATIONAL INC.





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## Summary of Test Result

Conformance Test Specifications			
Report Clause	Ref. Std. Clause	Description	Result
1.1.2	15.203	Antenna Requirement	Complied
3.1	15.207	AC Power-line Conducted Emissions	Complied
3.2	15.407(a)	Emission Bandwidth	Complied
3.3	15.407(a)	Maximum Conducted Output Power	Complied
3.4	15.407(a)	Peak Power Spectral Density	Complied
3.5	15.407(b)	Unwanted Emissions	Complied
3.6	15.407(g)	Frequency Stability	Complied



## Revision History

Report No.	Version	Description	Issued Date
FR812227AB	Rev. 01	Initial issue of report	Feb. 14, 2018



# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
5150-5250	a, n (HT20), ac (VHT20), ax (HE20)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40), ax (HE40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80), ax (HE80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.15-5.25GHz	802.11a	20	4TX
5.15-5.25GHz	802.11n HT20	20	4TX
5.15-5.25GHz	802.11n HT20-BF	20	4TX
5.15-5.25GHz	802.11ac VHT20	20	4TX
5.15-5.25GHz	802.11ac VHT20-BF	20	4TX
5.15-5.25GHz	802.11ax HE20	20	4TX
5.15-5.25GHz	802.11ax HE20,BF	20	4TX
5.15-5.25GHz	802.11n HT40	40	4TX
5.15-5.25GHz	802.11n HT40-BF	40	4TX
5.15-5.25GHz	802.11ac VHT40	40	4TX
5.15-5.25GHz	802.11ac VHT40-BF	40	4TX
5.15-5.25GHz	802.11ax HE40	40	4TX
5.15-5.25GHz	802.11ax HE40,BF	40	4TX
5.15-5.25GHz	802.11ac VHT80	80	4TX
5.15-5.25GHz	802.11ac VHT80-BF	80	4TX
5.15-5.25GHz	802.11ax HE80	80	4TX
5.15-5.25GHz	802.11ax HE80,BF	80	4TX



Band	Mode	BWch (MHz)	Nant
5.725-5.85GHz	802.11a	20	4TX
5.725-5.85GHz	802.11n HT20	20	4TX
5.725-5.85GHz	802.11n HT20-BF	20	4TX
5.725-5.85GHz	802.11ac VHT20	20	4TX
5.725-5.85GHz	802.11ac VHT20-BF	20	4TX
5.725-5.85GHz	802.11ax HE20	20	4TX
5.725-5.85GHz	802.11ax HE20,BF	20	4TX
5.725-5.85GHz	802.11n HT40	40	4TX
5.725-5.85GHz	802.11n HT40-BF	40	4TX
5.725-5.85GHz	802.11ac VHT40	40	4TX
5.725-5.85GHz	802.11ac VHT40-BF	40	4TX
5.725-5.85GHz	802.11ax HE40	40	4TX
5.725-5.85GHz	802.11ax HE40,BF	40	4TX
5.725-5.85GHz	802.11ac VHT80	80	4TX
5.725-5.85GHz	802.11ac VHT80-BF	80	4TX
5.725-5.85GHz	802.11ax HE80	80	4TX
5.725-5.85GHz	802.11ax HE80,BF	80	4TX

Note:

- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40, VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- ♦ HE20, HE40, HE80 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 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

Ant.	Port			Brand	P/N	Antenna Type	Connector	Gain (dBi)		
	2.4GHz	5GHz Band1	5GHz Band 4					2.4GHz	5GHz Band 1	5GHz Band 4
1	1	-	4	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
2	2	-	3	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
3	3	-	2	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
4	4	-	1	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	1.9	-	1.9
5	-	1	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-
6	-	2	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-
7	-	3	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-
8	-	4	-	WHA YU	C660-510413-A	Dipole	Reverse SMA Plug	-	2.3	-

Note:

<For 2.4GHz Band>

**For IEEE 802.11b/g/n/ac/ax mode <4TX/4RX>:**

Ant.1 (Port 1), Ant.2 (Port 2), Ant.3 (Port 3) and Ant.4 (Port 4) will transmit/receive the same signal simultaneously.

Ant.1 (Port 1), Ant.2 (Port 2), Ant.3 (Port 3) and Ant.4 (Port 4) can be used as transmitting/receiving antennas.

<For 5GHz Band>

**For Band 1**

**For IEEE 802.11a/n/ac/ax mode <4TX/4RX>:**

Ant.5 (Port 1), Ant.6 (Port 2), Ant.7 (Port 3) and Ant.8 (Port 4) will transmit/receive the same signal simultaneously.

Ant.5 (Port 1), Ant.6 (Port 2), Ant.7 (Port 3) and Ant.8 (Port 4) can be used as transmitting/receiving antennas.

**For Band 4**

**For IEEE 802.11a/n/ac/ax mode <4TX/4RX>:**

Ant.1 (Port 4), Ant.2 (Port 3), Ant.3 (Port 2) and Ant.4 (Port 1) will transmit/receive the same signal simultaneously.

Ant.1 (Port 4), Ant.2 (Port 3), Ant.3 (Port 2) and Ant.4 (Port 1) can be used as transmitting/receiving antennas.



### 1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11a	0.97	0.132	2.066m	1k
802.11ac VHT20	0.959	0.182	1.93m	1k
802.11ac VHT20-BF	0.928	0.325	1.929m	1k
802.11ac VHT40	0.919	0.367	953.75u	3k
802.11ac VHT40-BF	0.873	0.59	1.018m	1k
802.11ac VHT80	0.832	0.799	453.75u	3k
802.11ac VHT80-BF	0.758	1.203	428.75u	3k
802.11ax HE20	0.949	0.227	1.473m	1k
802.11ax HE20,BF	0.914	0.391	1.472m	1k
802.11ax HE40	0.881	0.55	757.5u	3k
802.11ax HE40,BF	0.804	0.947	740.469u	3k
802.11ax HE80	0.794	1.002	395u	3k
802.11ax HE80,BF	0.735	1.337	369.375u	3k

### 1.1.4 EUT Operational Condition

<b>EUT Power Type</b>	From Power Adapter		
<b>Beamforming Function</b>	<input checked="" type="checkbox"/> With beamforming 802.11n/ac/ax in 5GHz	<input type="checkbox"/>	Without beamforming
<b>Test Software Version</b>	accessMTool_3_0_0_5		

### 1.1.5 Table for Multiple Listing

The EUT has two model names which are identical to each other in all aspects except for the following table:

Model Name	Description
RT-AX95U	All the models are identical, the different model names served as marketing strategy.
RT-AX11000	

From the above models, model: RT-AX95U was selected as representative model for the test and its data was recorded in this report.

### 1.1.6 Table for SKU information

EUT No.	SUK No.	Brand Name	P/N
1	SUK 1	SWAPnet	NS777203*2
		SWAPnet	NS771802*1
2	SUK 2	Mingtek	HN8011VG*2
		Mingtek	HN18101DG*1

Note: For Conducted Emission test and Radiated Emissions <Below 1GHz>, these items were assessed both SKU1 and SKU2. For the others test item, only the SUK1 was tested.





## 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 789033 D02 v02r01
- ◆ FCC KDB 662911 D01 v02r01

## 1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Paul Chan	20°C / 50%	Jan. 18, 2018~Feb. 07, 2018
Radiated below 1GHz	03CH01-CB	Lance Wu / Nyle Chang / Joy Tseng	20°C / 50%	Feb. 09, 2018
Radiated above 1GHz	03CH01-CB	Lance Wu / Nyle Chang	20°C / 50%	Jan. 19, 2018 ~ Feb. 06, 2018
AC Conduction	CO01-CB	Ryo Fan	18°C / 61%	Jan. 31, 2018~Feb. 01, 2018

Test site Designation No. TW0006 with FCC  
Test site registered number IC 4086D with Industry Canada.

## 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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 <sup>-8</sup>	Confidence levels of 95%
Frequency Stability	6.06 x10 <sup>-8</sup>	Confidence levels of 95%



## 2 Test Configuration of EUT

### 2.1 Test Channel Mode

Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5180MHz	82
5200MHz	82
5240MHz	84
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5180MHz	80
5200MHz	82
5240MHz	84
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5190MHz	72
5230MHz	89
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5210MHz	72
HE20_Nss1,(MCS0)_4TX	-
5180MHz	76
5200MHz	81
5240MHz	83
HE40_Nss1,(MCS0)_4TX	-
5190MHz	70
5230MHz	87
HE80_Nss1,(MCS0)_4TX	-
5210MHz	68
802.11ac VHT80_Nss4,(MCS0)_4TX	-
5210MHz	73
HE80_Nss4,(MCS0)_4TX	-
5210MHz	70
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5180MHz	77
5200MHz	76
5240MHz	79
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5190MHz	69
5230MHz	84
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5210MHz	67
HE20,BF_Nss1,(MCS0)_4TX	-
5180MHz	77
5200MHz	76



<b>Mode</b>	<b>Power Setting</b>
5240MHz	78
HE40,BF_Nss1,(MCS0)_4TX	-
5190MHz	67
5230MHz	83
HE80,BF_Nss1,(MCS0)_4TX	-
5210MHz	68



Mode	Power Setting
802.11a_Nss1,(6Mbps)_4TX	-
5745MHz	89
5785MHz	90
5825MHz	90
802.11ac VHT20_Nss1,(MCS0)_4TX	-
5745MHz	89
5785MHz	90
5825MHz	90
802.11ac VHT40_Nss1,(MCS0)_4TX	-
5755MHz	89
5795MHz	90
802.11ac VHT80_Nss1,(MCS0)_4TX	-
5775MHz	89
HE20_Nss1,(MCS0)_4TX	-
5745MHz	88
5785MHz	88
5825MHz	89
HE40_Nss1,(MCS0)_4TX	-
5755MHz	88
5795MHz	89
HE80_Nss1,(MCS0)_4TX	-
5775MHz	86
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-
5745MHz	84
5785MHz	84
5825MHz	85
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-
5755MHz	84
5795MHz	84
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-
5775MHz	85
HE20,BF_Nss1,(MCS0)_4TX	-
5745MHz	83
5785MHz	83
5825MHz	84
HE40,BF_Nss1,(MCS0)_4TX	-
5755MHz	84
5795MHz	84
HE80,BF_Nss1,(MCS0)_4TX	-
5775MHz	84
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	-



Mode	Power Setting
5745MHz	90
5785MHz	91
5825MHz	91
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	-
5755MHz	90
5795MHz	90
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	-
5775MHz	90
HE20,BF_Nss2,(MCS0)_4TX	-
5745MHz	88
5785MHz	89
5825MHz	89
HE40,BF_Nss2,(MCS0)_4TX	-
5755MHz	89
5795MHz	89
HE80,BF_Nss2,(MCS0)_4TX	-
5775MHz	90
802.11ac VHT80_Nss4,(MCS0)_4TX	-
5775MHz	90
HE80_Nss4,(MCS0)_4TX	-
5775MHz	89

Note:

- ◆ There are two modes of EUT for 802.11n/ac/ax in 5GHz. One is beamforming mode, and the other is non-beamforming mode. Both modes have been tested and recorded in this test report.
- ◆ VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.

## 2.2 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>	Normal Link
	The EUT has two SKUs and equips with adapter 1 ~ adapter 3. After evaluated, EUT 1 (SKU1) + adapter 1 generated the worst test result, thus the measurement test will follow this same test
1	EUT 1 (SKU1) + Adapter 1

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Frequency Stability
<b>Test Condition</b>	Conducted measurement at transmit chains
1	EUT 1 (SKU1) + Adapter 3

The Worst Case Mode for Following Conformance Tests	
<b>Tests Item</b>	Unwanted Emissions
<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 &lt; 1GHz</b>	Normal Link
	The EUT has two SKUs and equips with adapter 1 ~ adapter 3. After evaluated, EUT 2 (SKU2) + adapter 3 generated the worst test result, thus the measurement test will follow this same test configuration.
1	EUT 2 (SKU2) + Adapter 3 in Z axis
<b>Operating Mode &gt; 1GHz</b>	CTX
1	EUT 1 (SKU1) in Z axis



The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	EUT 1 (SKU1) in Z axis - WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	EUT 1 (SKU1) - WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA812227 for Co-location RF Exposure Evaluation.	

Note: The EUT supports master mode (AP mode) and only be used at Z axis.

### 2.3 EUT Operation during Test

For CTX Mode:

non-beamforming mode:

The EUT was programmed to be in continuously transmitting mode.

beamforming mode:

For Conducted Mode:

The EUT was programmed to be in continuously transmitting mode.

For Radiated Mode:

During the test, the following programs under WIN 7 were executed.

The program was executed as follows:

1. During the test, the EUT operation to normal function.
2. Executed command fixed test channel under Telnet.
3. Executed "Telnet.exe" to link with the remote workstation to transmit and receive packet by RX Device and transmit duty cycle no less than 98%.

For Normal Link:

During the test, the EUT operation to normal function.



## 2.4 Accessories

Accessories				
Equipment Name	Brand Name	Model Name	Type	Rating
Adapter 1	DELTA	ADP-65DW B	-	INPUT: 100-240V~50-60Hz, 1.5A OUTPUT: 19V, 3.42A
Adapter 2	DELTA	ADP-65DW Y	-	INPUT: 100-240V~50-60Hz, 1.5A OUTPUT: 19V, 3.42A
Adapter 3	PI	AD2087320	010-1LF	INPUT: 100-240V~50/60Hz, 1.5A OUTPUT: 19V, 3.42A
Other				
RJ-45 Cable: Shielded, 1.5m				

Note: For Conducted Emission test and Radiated Emissions <Below 1GHz>, these items were assessed both Adapter 1, Adapter 2 and Adapter 3. For the others test item, only the Adapter 3 was tested.





## 2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*6	DELL	E6430	DoC
2	HDD3.0*2	WD	WDBACY5000AWT	DoC

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E4300	DoC
2	NB*3	Apple	Mac Book	DoC
3	WLAN Dongle*2	LINKSYS	AE6000	Q87-AE6000

For Test Site No: 03CH01-CB (above 1GHz)  
(For non-beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

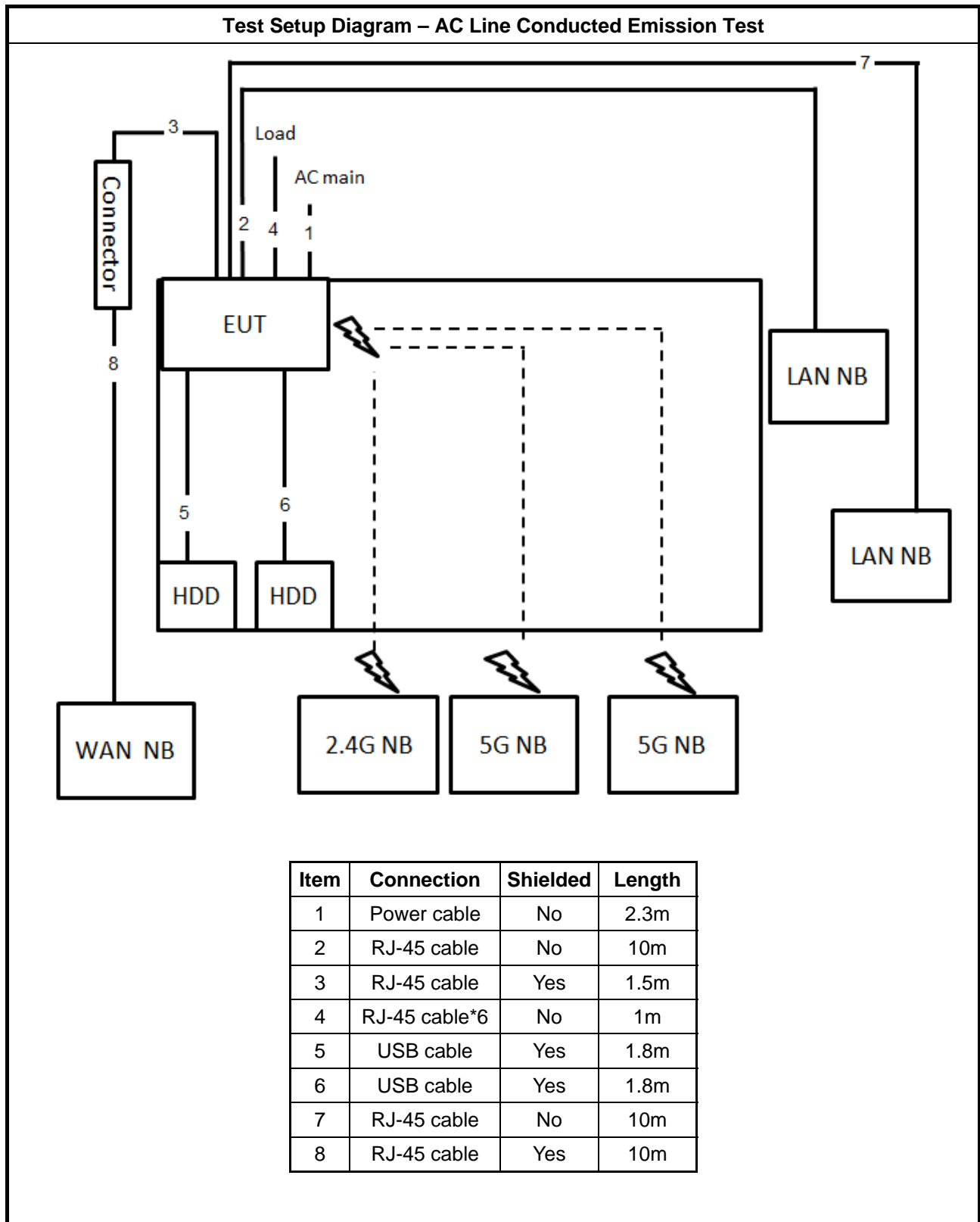
(For beamforming mode)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	RX Device	AVAGO	43684MCH5	N/A

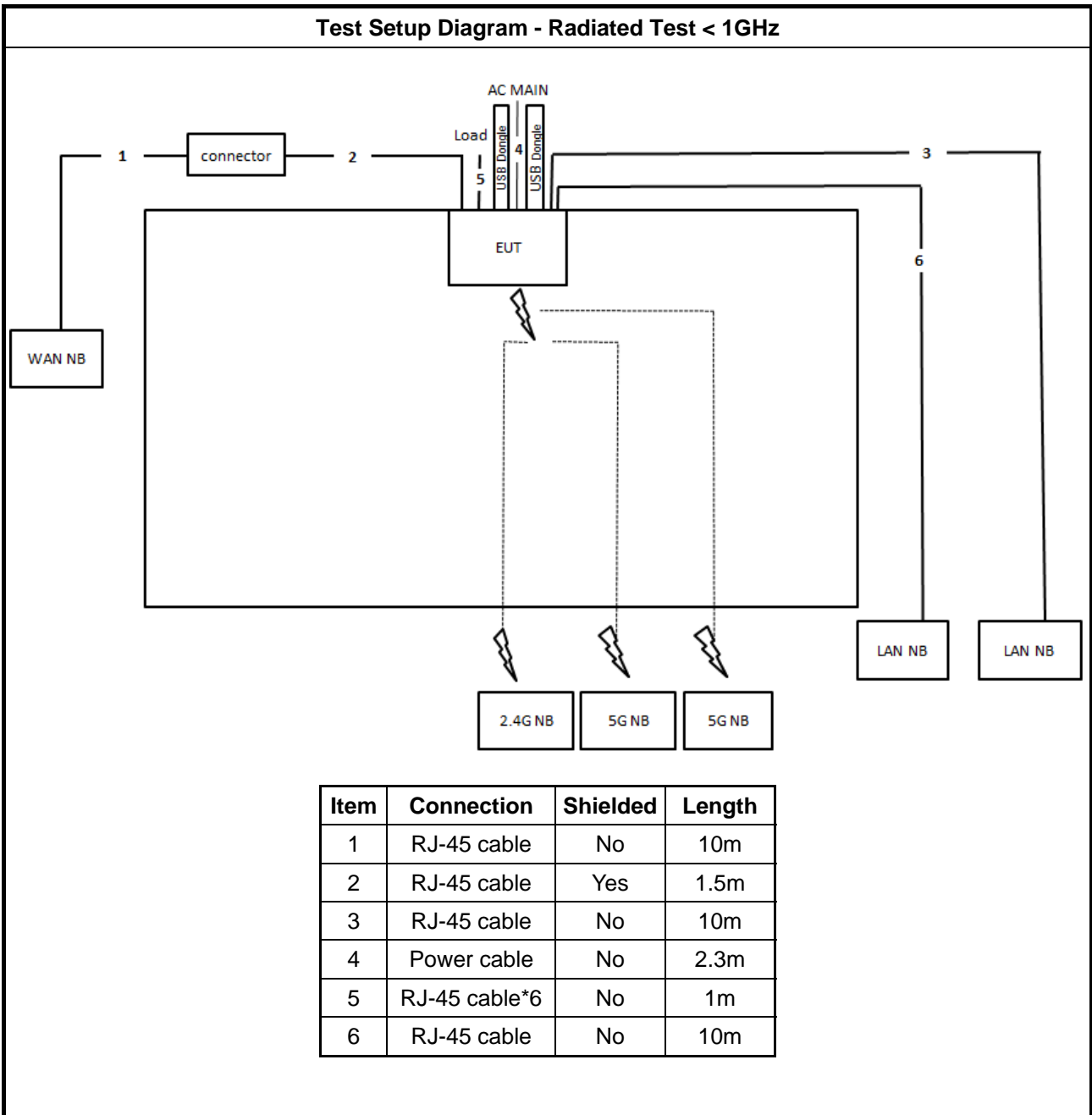
For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

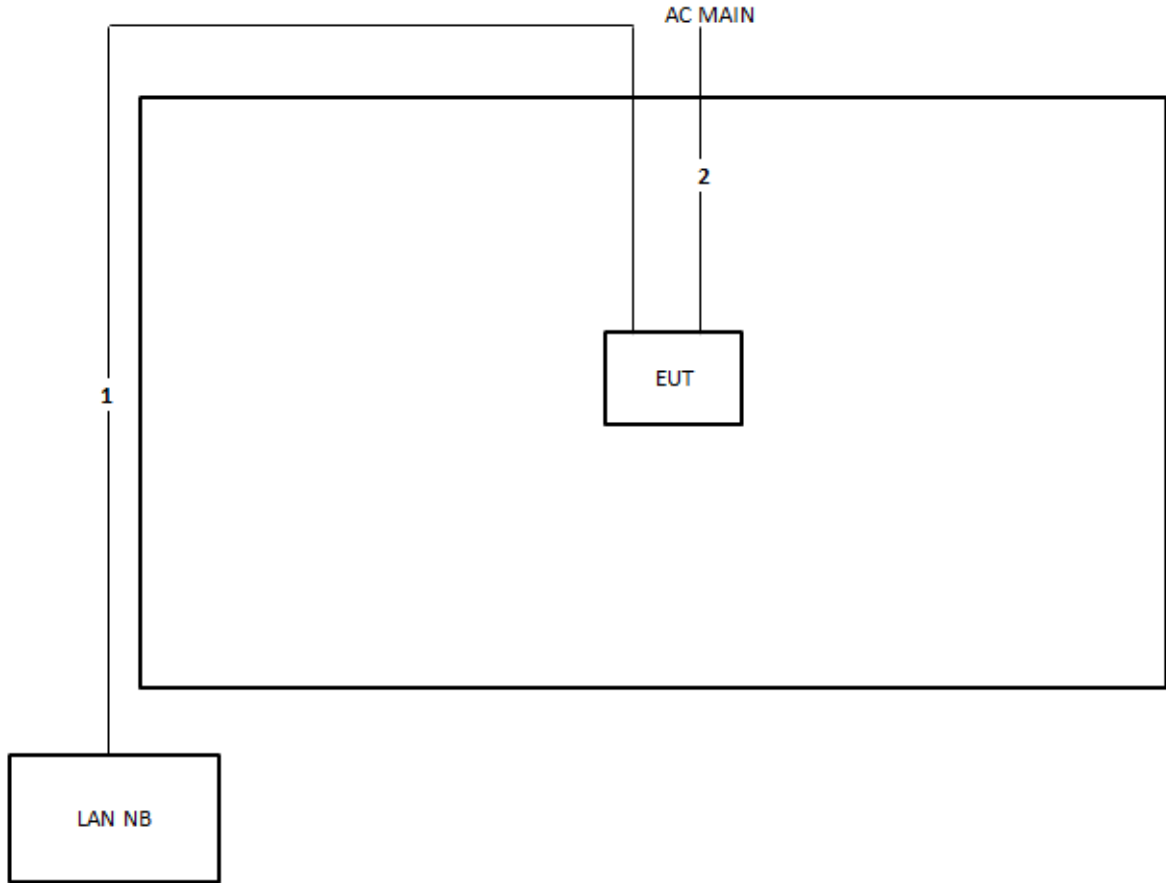
## 2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz

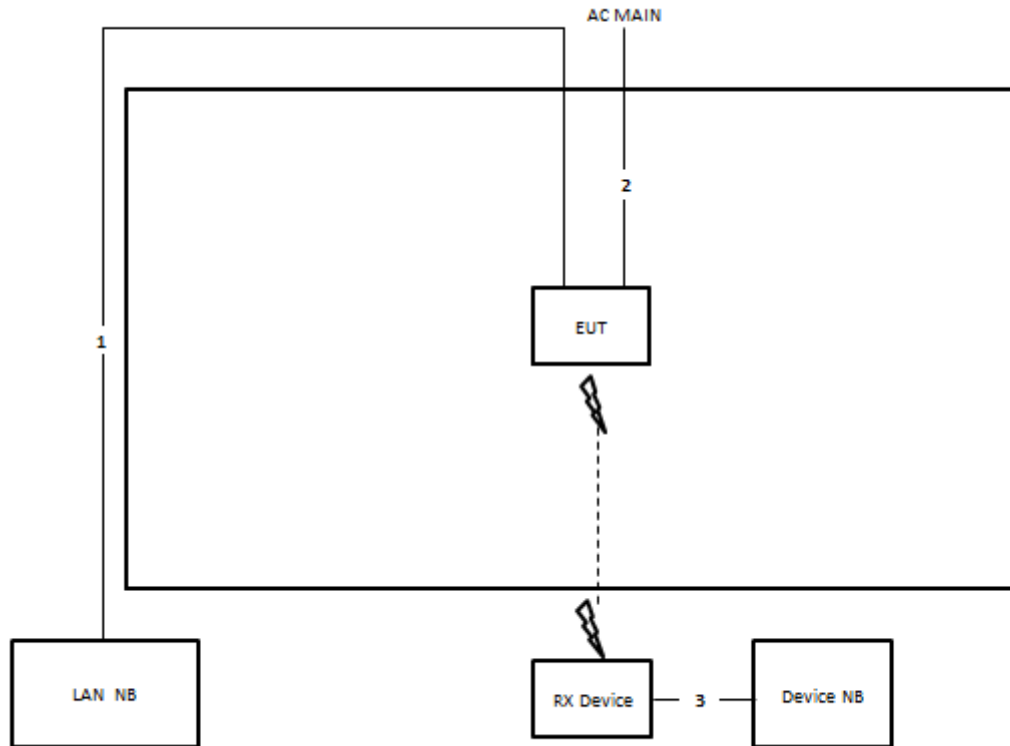


Test Setup Diagram - Radiated Test > 1GHz / For non-beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	2.3m

Test Setup Diagram - Radiated Test > 1GHz / For beamforming mode



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	2.3m
3	RJ-45 cable	No	1.5m



### 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.

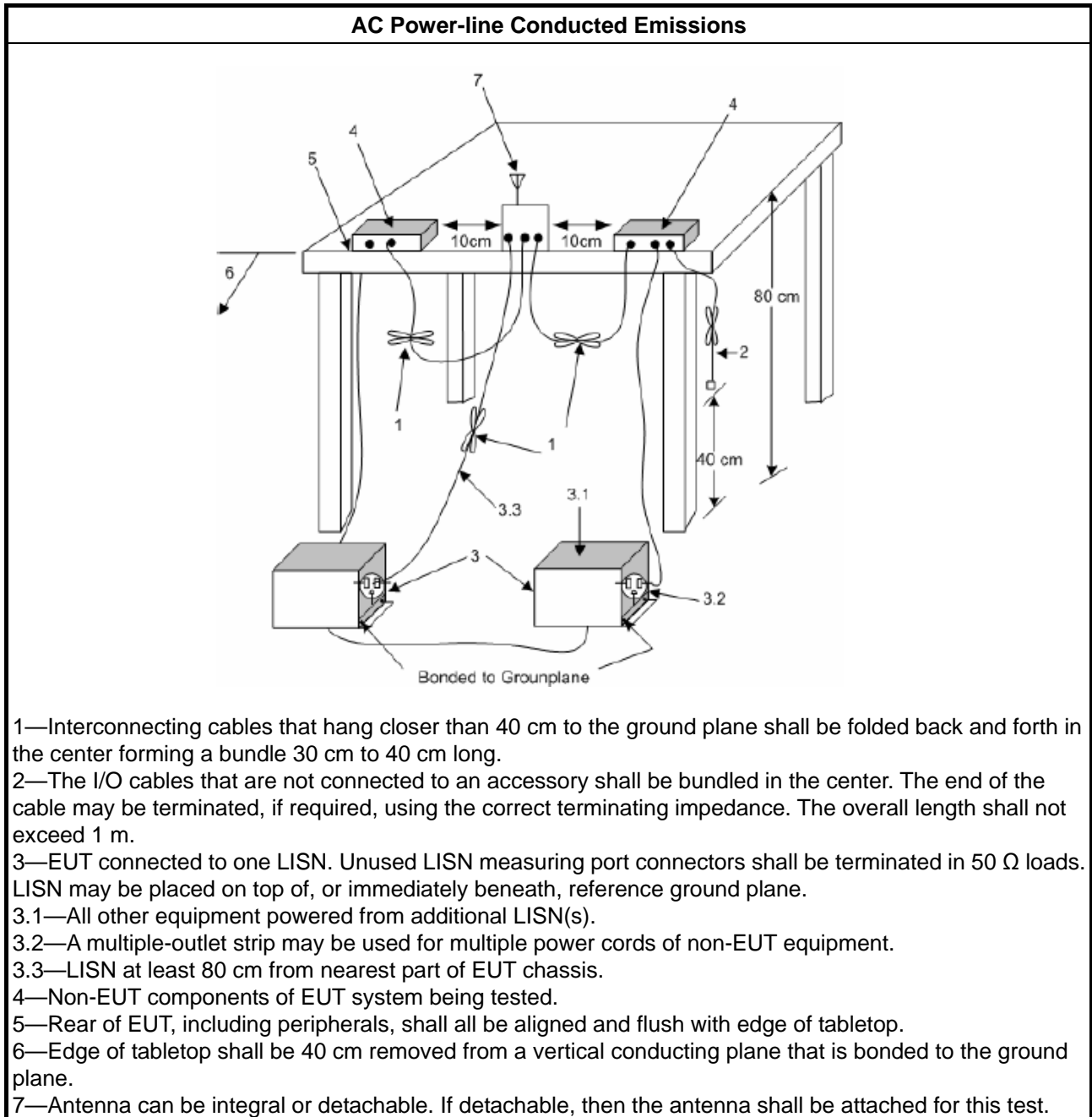
##### 3.1.2 Measuring Instruments

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 Emission Bandwidth

#### 3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/>	For the 5.15-5.25 GHz band, N/A
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.47-5.725 GHz band, the maximum conducted output power shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
<input checked="" type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
<b>LE-LAN Devices</b>	
<input type="checkbox"/>	For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.
<input type="checkbox"/>	For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz
<input type="checkbox"/>	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

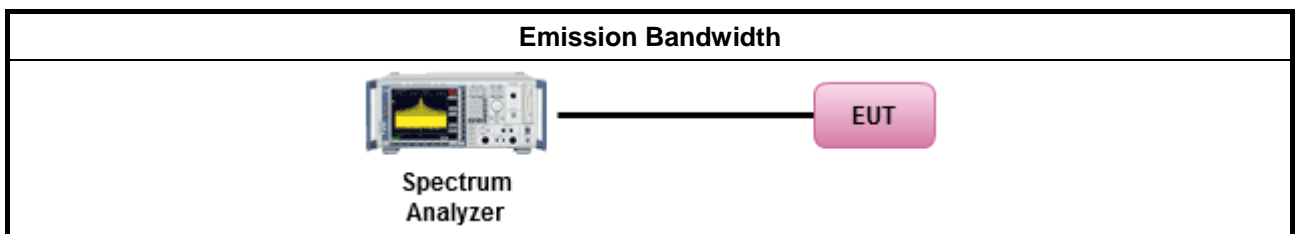
#### 3.2.2 Measuring Instruments

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 FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
<input type="checkbox"/>	Refer as IC RSS-Gen, clause 4.6 for 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	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Outdoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>. e.i.r.p. at any elevation angle above 30 degrees <math>\leq 125mW</math> [21dBm]</li> <li>▪ Indoor AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math></li> <li>▪ Point-to-point AP: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 250 mW. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 24 - (G_{TX} - 6)</math>.</li> </ul>
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the maximum conducted output power ( $P_{Out}$ ) shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$ .	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the maximum e.i.r.p. shall not exceed 200 mW or 10 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the maximum e.i.r.p. shall not exceed 1.0 W or 17 + 10 log B, dBm, whichever power is less. B is the 99% emission bandwidth in MHz	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the maximum conducted output power (<math>P_{Out}</math>) shall not exceed the lesser of 1 W.</li> </ul>
$P_{Out}$ = maximum conducted output power in dBm, $G_{TX}$ = the maximum transmitting antenna directional gain in dBi.	

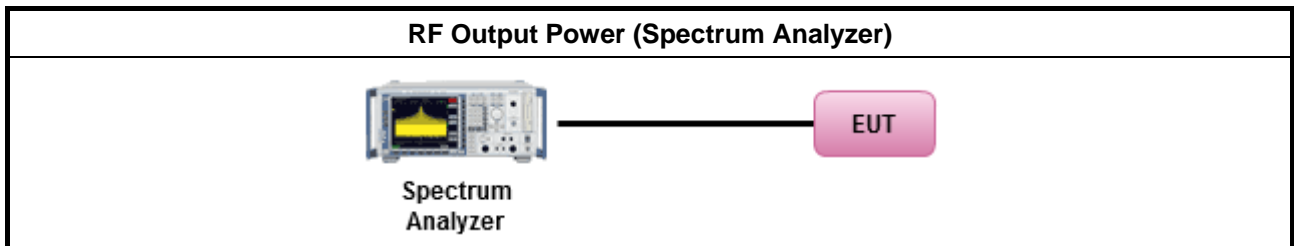
### 3.3.2 Measuring Instruments

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 Conducted Output Power</li> </ul>	
Average over on/off periods with duty factor	
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
<input type="checkbox"/>	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off periods with duty factor	
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average 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 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.</li> </ul>	
<ul style="list-style-type: none"> <li>If multiple transmit chains, EIRP calculation could be following as methods:  <math>P_{total} = P_1 + P_2 + \dots + P_n</math>                      (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>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 Peak Power Spectral Density

#### 3.4.1 Peak Power Spectral Density Limit

Peak Power Spectral Density Limit	
<b>UNII Devices</b>	
<input checked="" type="checkbox"/> For the 5.15-5.25 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If <math>G_{TX} &gt; 23</math> dBi, then <math>P_{Out} = 17 - (G_{TX} - 23)</math>.</li> <li>▪ Mobile or Portable Client: the peak power spectral density (PPSD) <math>\leq 11</math> dBm/MHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 11 - (G_{TX} - 6)</math>.</li> </ul>
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .	
<input type="checkbox"/> For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$ .	
<input checked="" type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<b>LE-LAN Devices</b>	
<input type="checkbox"/> For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) $\leq 4$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 10$ dBm/MHz.	
<input type="checkbox"/> For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 17$ dBm/MHz.	
	<ul style="list-style-type: none"> <li>▪ e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where <math>\theta</math> is the angle above the local horizontal plane (of the Earth) as shown below:            -13 dBW/MHz for <math>0^\circ \leq \theta &lt; 8^\circ</math> ; -13 - 0.716 (<math>\theta-8</math>) dBW/MHz for <math>8^\circ \leq \theta &lt; 40^\circ</math>            -35.9 - 1.22 (<math>\theta-40</math>) dBW/MHz for <math>40^\circ \leq \theta \leq 45^\circ</math> ; -42 dBW/MHz for <math>\theta &gt; 45^\circ</math></li> </ul>
<input type="checkbox"/> For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) $\leq 11$ dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) $\leq 17$ dBm/MHz.	
<input type="checkbox"/> For the 5.725-5.85 GHz band:	
	<ul style="list-style-type: none"> <li>▪ Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz. If <math>G_{TX} &gt; 6</math> dBi, then <math>PPSD = 30 - (G_{TX} - 6)</math>.</li> <li>▪ Point-to-point systems (P2P): the peak power spectral density (PPSD) <math>\leq 30</math> dBm/500kHz.</li> </ul>
<p><b>PPSD</b> = peak power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz  <b><math>G_{TX}</math></b> = the maximum transmitting antenna directional gain in dBi.</p>	

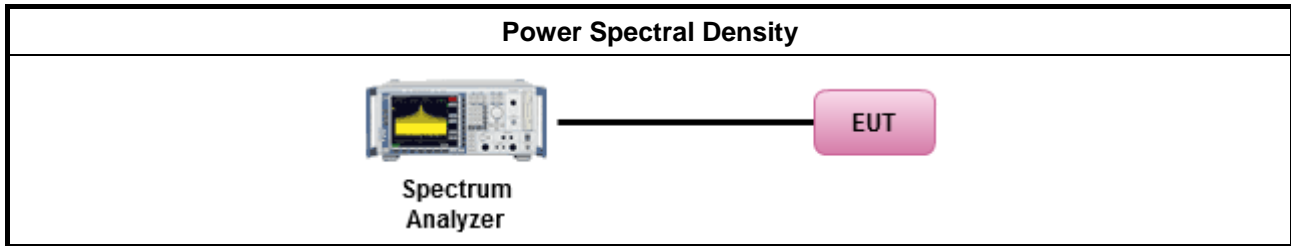
#### 3.4.2 Measuring Instruments

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 shall be used to determine the peak power spectral density and use the peak search function on the spectrum analyzer to find the peak of the spectrum. For the peak power spectral density shall be measured using below options:</li> </ul>	
	<input type="checkbox"/> Refer as FCC KDB 789033, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth [duty cycle ≥ 98% or external video / power trigger]
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
	<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-1 Alt. (RMS detection with slow sweep speed) duty cycle < 98% and average over on/off periods with duty factor
	<input checked="" type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
	<input type="checkbox"/> Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
<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> <input checked="" type="checkbox"/> 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 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> <li> <input type="checkbox"/> 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,               </li> <li> <input type="checkbox"/> 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.               </li> </ul> </li> <li>▪ If multiple transmit chains, EIRP PPSD calculation could be following as methods:  <math>PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n</math>                (calculated in linear unit [mW] and transfer to log unit [dBm])  <math>EIRP_{total} = PPSD_{total} + DG</math> </li> </ul>	

### 3.4.4 Test Setup



### 3.4.5 Test Result of Peak Power Spectral Density

Refer as Appendix D



### 3.5 Unwanted Emissions

#### 3.5.1 Transmitter Radiated Unwanted Emissions Limit

Unwanted emissions below 1 GHz and restricted band emissions above 1GHz 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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
<input checked="" type="checkbox"/> 5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input type="checkbox"/> 5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
<input checked="" type="checkbox"/> 5.725 - 5.85 GHz	Follow 15.407(b)(4)(ii), the emission limits in § 15.247(d), 30dBc in any 100 kHz bandwidth outside the operating frequency band.

Note 1: 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).

#### 3.5.2 Measuring Instruments

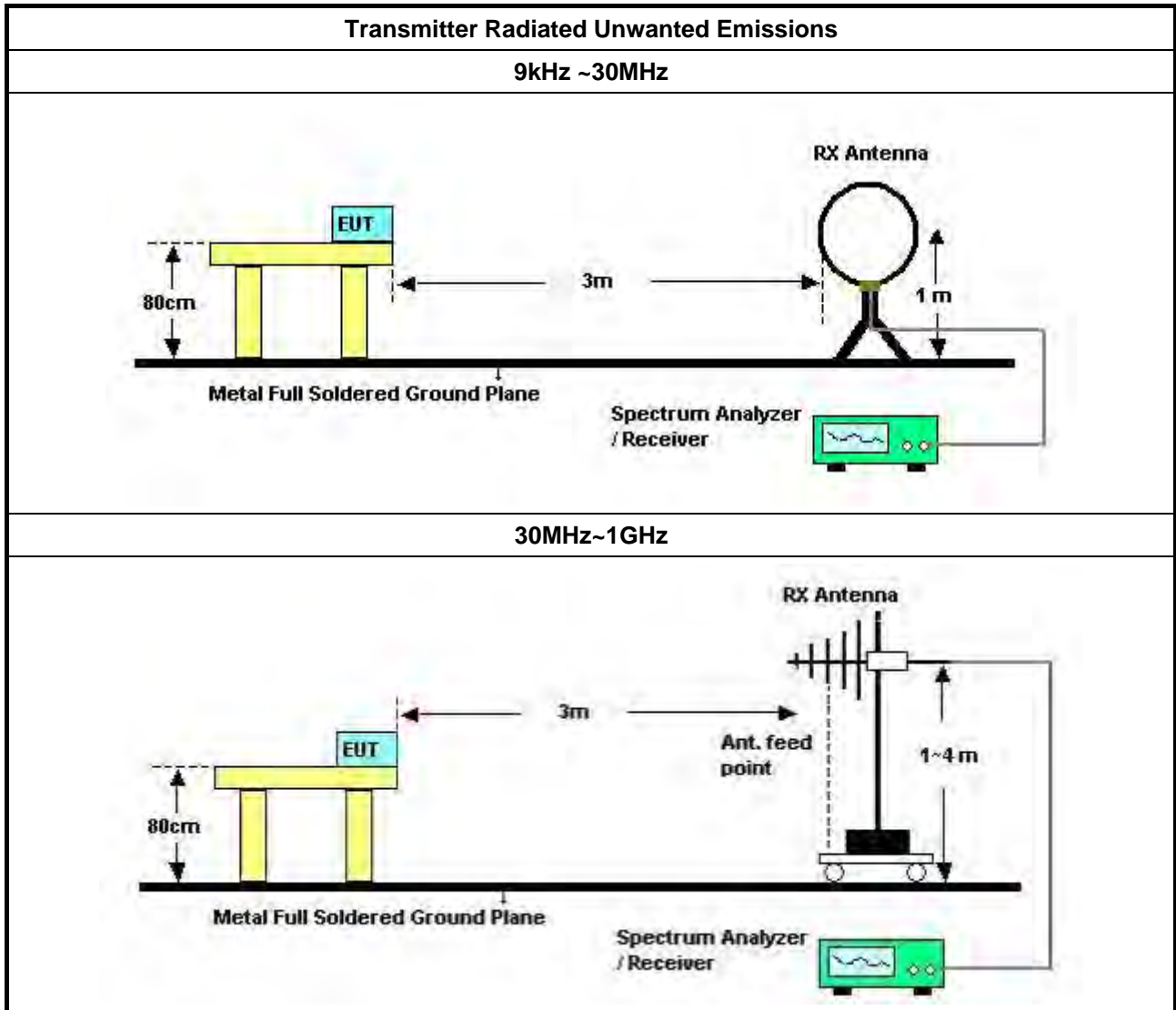
Refer a test equipment and calibration data table in this test report.



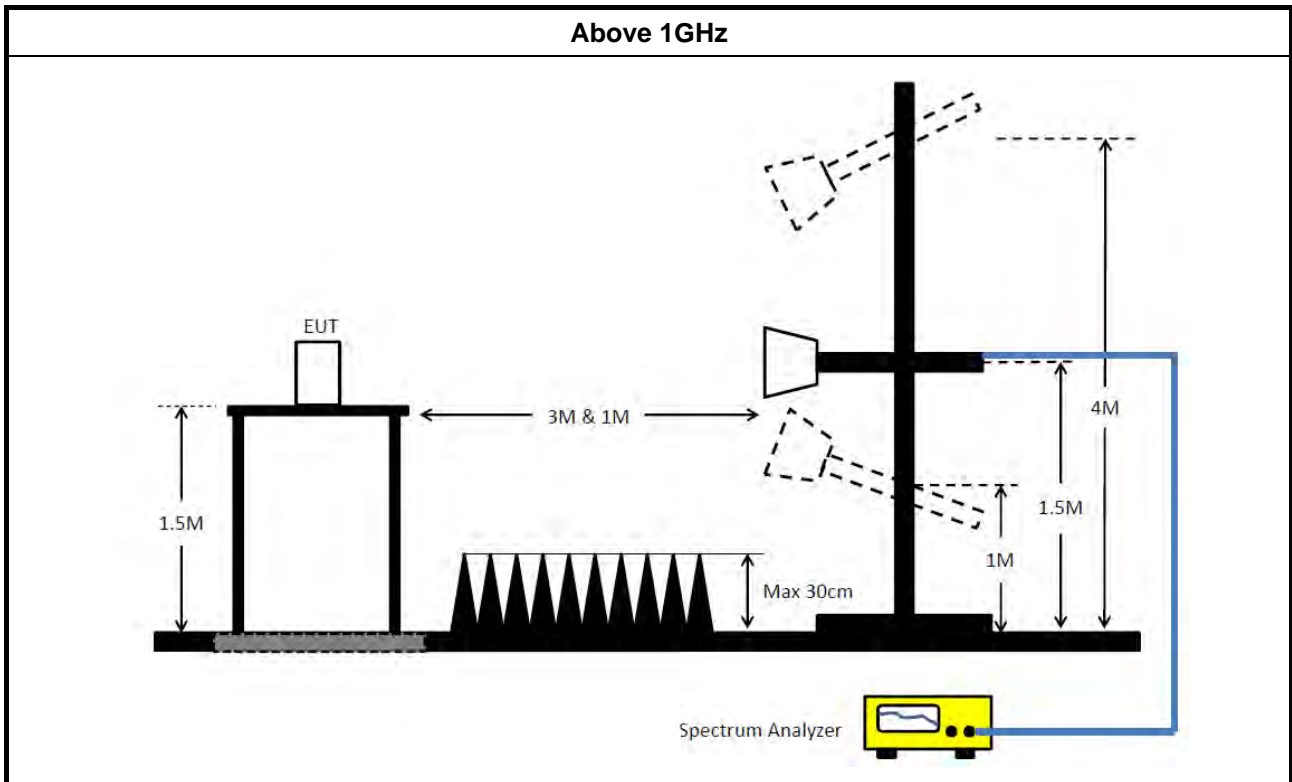
3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> <li>▪ 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. Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. 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).</li> </ul>	
<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>▪ For the transmitter unwanted emissions shall be measured using following options below:</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as Clause 11.11 of ANSI C63.10-2013 and/or in Section 11.0 of KDB Publication 558074 for unwanted emissions into non-restricted bands.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.</li> </ul>
<input type="checkbox"/>	Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
<input checked="" type="checkbox"/>	Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
<ul style="list-style-type: none"> <li>▪ For radiated measurement.</li> </ul>	
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.</li> </ul>
<ul style="list-style-type: none"> <li>▪ The any unwanted emissions level shall not exceed the fundamental emission level.</li> </ul>	
<ul style="list-style-type: none"> <li>▪ All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.</li> </ul>	

### 3.5.4 Test Setup







### 3.5.5 Transmitter Unwanted Emissions (Below 30MHz)

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

### 3.5.6 Test Result of Transmitter Unwanted Emissions

Refer as Appendix E

### 3.6 Frequency Stability

#### 3.6.1 Frequency Stability Limit

Frequency Stability Limit
<b>UNII Devices</b>
<ul style="list-style-type: none"> <li>In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.</li> </ul>
<b>LE-LAN Devices</b>
<ul style="list-style-type: none"> <li>N/A</li> </ul>
<b>IEEE Std. 802.11</b>
<ul style="list-style-type: none"> <li>The transmitter center frequency tolerance shall be <math>\pm 20</math> ppm maximum for the 5 GHz band and <math>\pm 25</math> ppm maximum for the 2.4 GHz band.</li> </ul>

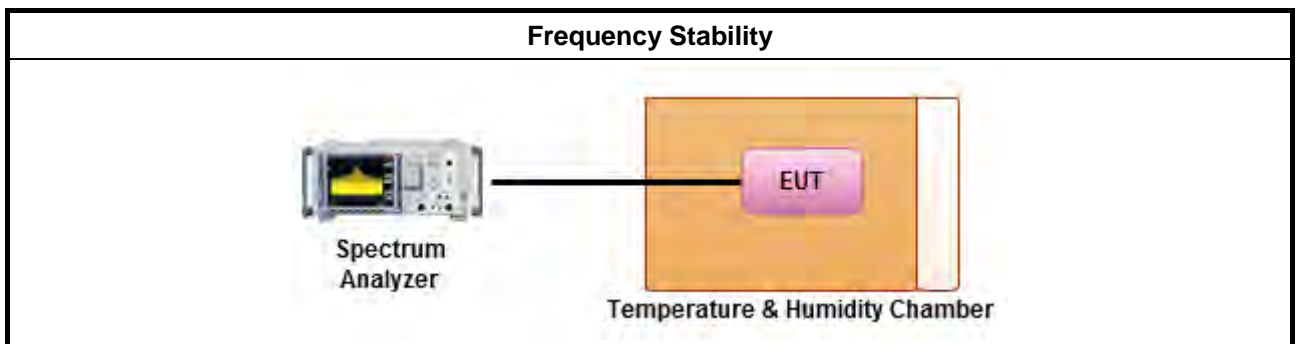
#### 3.6.2 Measuring Instruments

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>Refer as ANSI C63.10, clause 6.8 for frequency stability tests</li> </ul>
<ul style="list-style-type: none"> <li>Frequency stability with respect to ambient temperature</li> </ul>
<ul style="list-style-type: none"> <li>Frequency stability when varying supply voltage</li> </ul>
<ul style="list-style-type: none"> <li>Extreme temperature is 0°C~40°C.</li> </ul>

#### 3.6.4 Test Setup



#### 3.6.5 Test Result of Frequency Stability

Refer as Appendix F



## 4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	Jan. 17, 2018	Jan. 16, 2019	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-1 6-2	04083	150kHz ~ 100MHz	Dec. 20, 2017	Dec. 19, 2018	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 29, 2017	Dec. 28, 2018	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 09, 2018	Jan. 08, 2019	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 02, 2017	Jun. 01, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

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

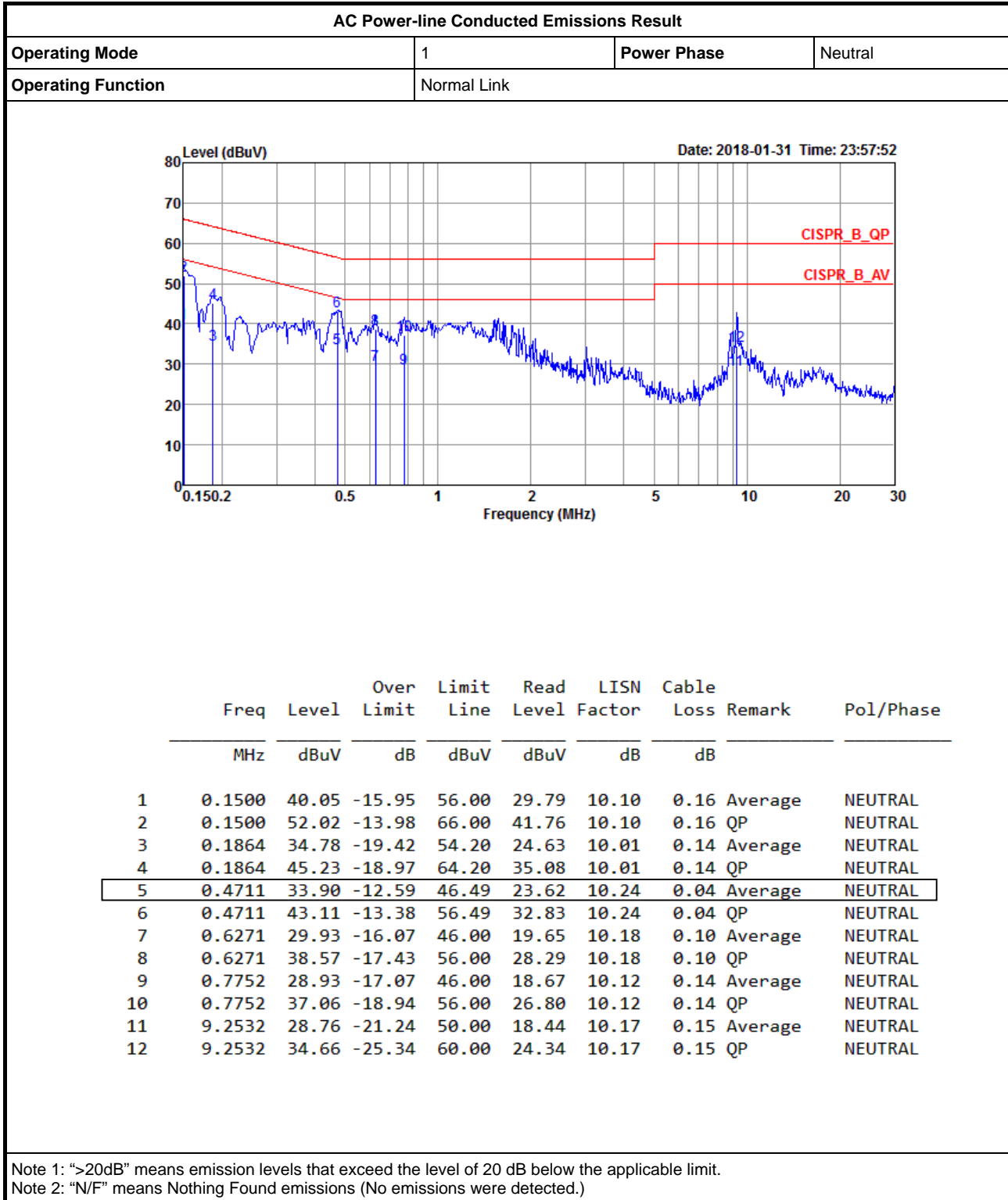
“\*\*” Calibration Interval of instruments listed above is two years.

N.C.R. means Non-Calibration required.



# AC Power-line Conducted Emissions Result

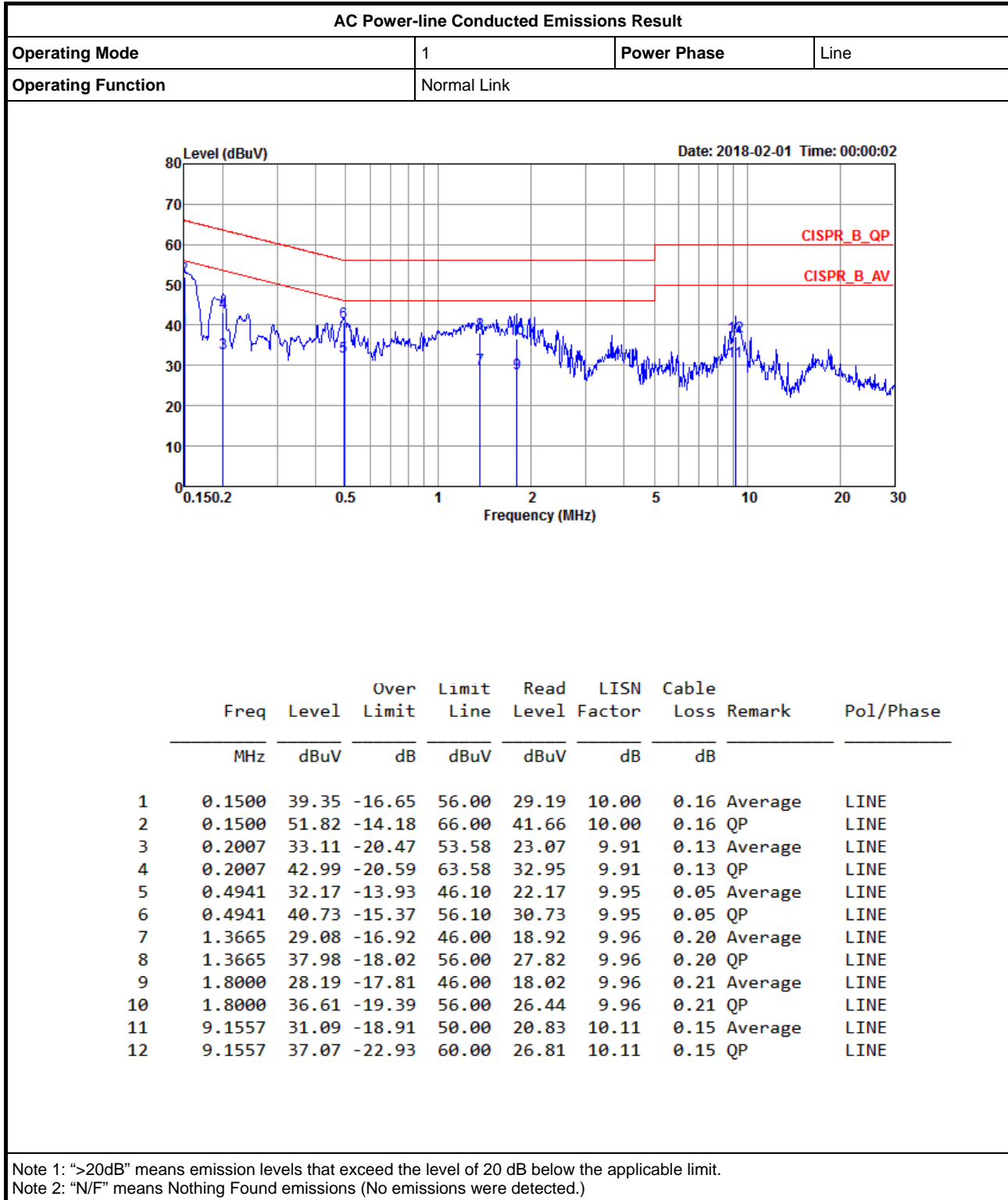
Appendix A





# AC Power-line Conducted Emissions Result

Appendix A





<For Band 1>

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.15-5.25GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	21.95M	16.85M	16M8D1D	21.325M	16.675M
802.11ac VHT20_Nss1,(MCS0)_4TX	22.225M	17.95M	17M9D1D	21.55M	17.85M
802.11ac VHT40_Nss1,(MCS0)_4TX	64.65M	36.85M	36M8D1D	40.7M	36.55M
802.11ac VHT80_Nss1,(MCS0)_4TX	82M	75.6M	75M6D1D	81.4M	75.5M
HE20_Nss1,(MCS0)_4TX	23.7M	19.075M	19M1D1D	21.35M	18.975M
HE40_Nss1,(MCS0)_4TX	48.2M	38M	38M0D1D	41.25M	37.75M
HE80_Nss1,(MCS0)_4TX	82.3M	77M	77M0D1D	81.7M	76.9M
802.11ac VHT80_Nss4,(MCS0)_4TX	81.7M	75.862M	75M9D1D	81M	75.462M
HE80_Nss4,(MCS0)_4TX	81.4M	77.061M	77M1D1D	80.8M	76.662M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	21.8M	17.791M	17M8D1D	21.375M	17.741M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	49.35M	36.282M	36M3D1D	39.65M	36.132M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	81.8M	75.562M	75M6D1D	81.1M	75.362M
HE20_BF_Nss1,(MCS0)_4TX	21.775M	19.015M	19M0D1D	21.475M	18.941M
HE40_BF_Nss1,(MCS0)_4TX	42.9M	37.631M	37M6D1D	39.7M	37.531M
HE80_BF_Nss1,(MCS0)_4TX	82.1M	77.061M	77M1D1D	81.6M	76.762M

**Max-N dB** = Maximum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**Max-OBW** = Maximum 99% occupied bandwidth;

**Min-N dB** = Minimum 6dB down bandwidth for 5.725-5.85GHz band / Maximum 26dB down bandwidth for other band;

**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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.475M	16.75M	21.375M	16.7M	21.475M	16.725M	21.5M	16.725M
5200MHz	Pass	Inf	21.6M	16.675M	21.325M	16.7M	21.7M	16.85M	21.825M	16.725M
5240MHz	Pass	Inf	21.525M	16.775M	21.575M	16.75M	21.95M	16.75M	21.525M	16.7M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.775M	17.9M	21.625M	17.95M	21.55M	17.85M	21.675M	17.925M
5200MHz	Pass	Inf	21.725M	17.875M	21.825M	17.875M	21.65M	17.9M	22.225M	17.875M
5240MHz	Pass	Inf	21.9M	17.875M	21.675M	17.9M	21.65M	17.95M	21.85M	17.9M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.5M	36.6M	41.4M	36.6M	41.35M	36.55M	40.7M	36.55M
5230MHz	Pass	Inf	56.35M	36.7M	49.65M	36.6M	64.65M	36.7M	59.75M	36.85M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82M	75.6M	81.5M	75.6M	81.5M	75.5M	81.4M	75.5M
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.675M	19.075M	21.55M	19M	21.725M	18.975M	21.625M	19.025M
5200MHz	Pass	Inf	23.05M	19.05M	21.35M	19.025M	23.7M	19.075M	22.9M	19.05M
5240MHz	Pass	Inf	21.575M	19.075M	21.4M	19.05M	23.1M	19.025M	22.7M	19.075M
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	41.25M	37.8M	41.25M	37.85M	41.45M	37.8M	41.5M	37.75M
5230MHz	Pass	Inf	42.35M	38M	42.2M	37.95M	48.2M	38M	44.25M	38M
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	82.2M	77M	82.3M	77M	82.2M	77M	81.7M	76.9M
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.1M	75.562M	81.2M	75.462M	81M	75.862M	81.7M	75.662M
HE80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	76.662M	81.1M	77.061M	80.8M	76.862M	81.1M	76.862M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.725M	17.791M	21.475M	17.791M	21.55M	17.741M	21.8M	17.766M
5200MHz	Pass	Inf	21.625M	17.766M	21.375M	17.791M	21.475M	17.741M	21.725M	17.791M
5240MHz	Pass	Inf	21.7M	17.766M	21.55M	17.766M	21.65M	17.741M	21.725M	17.766M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	39.65M	36.182M	40.1M	36.282M	39.75M	36.232M	40.05M	36.232M
5230MHz	Pass	Inf	41.3M	36.282M	49.35M	36.282M	39.85M	36.282M	40.3M	36.132M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	Inf	81.4M	75.562M	81.1M	75.462M	81.1M	75.562M	81.8M	75.362M
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	Inf	21.725M	18.991M	21.625M	18.991M	21.575M	18.966M	21.675M	18.966M
5200MHz	Pass	Inf	21.675M	18.991M	21.65M	18.941M	21.575M	18.991M	21.675M	18.941M
5240MHz	Pass	Inf	21.775M	19.015M	21.675M	18.966M	21.475M	18.941M	21.725M	18.991M
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	Inf	40.05M	37.631M	40.1M	37.531M	39.8M	37.531M	40M	37.581M
5230MHz	Pass	Inf	42.9M	37.581M	42.65M	37.631M	39.85M	37.631M	39.7M	37.581M
HE80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-

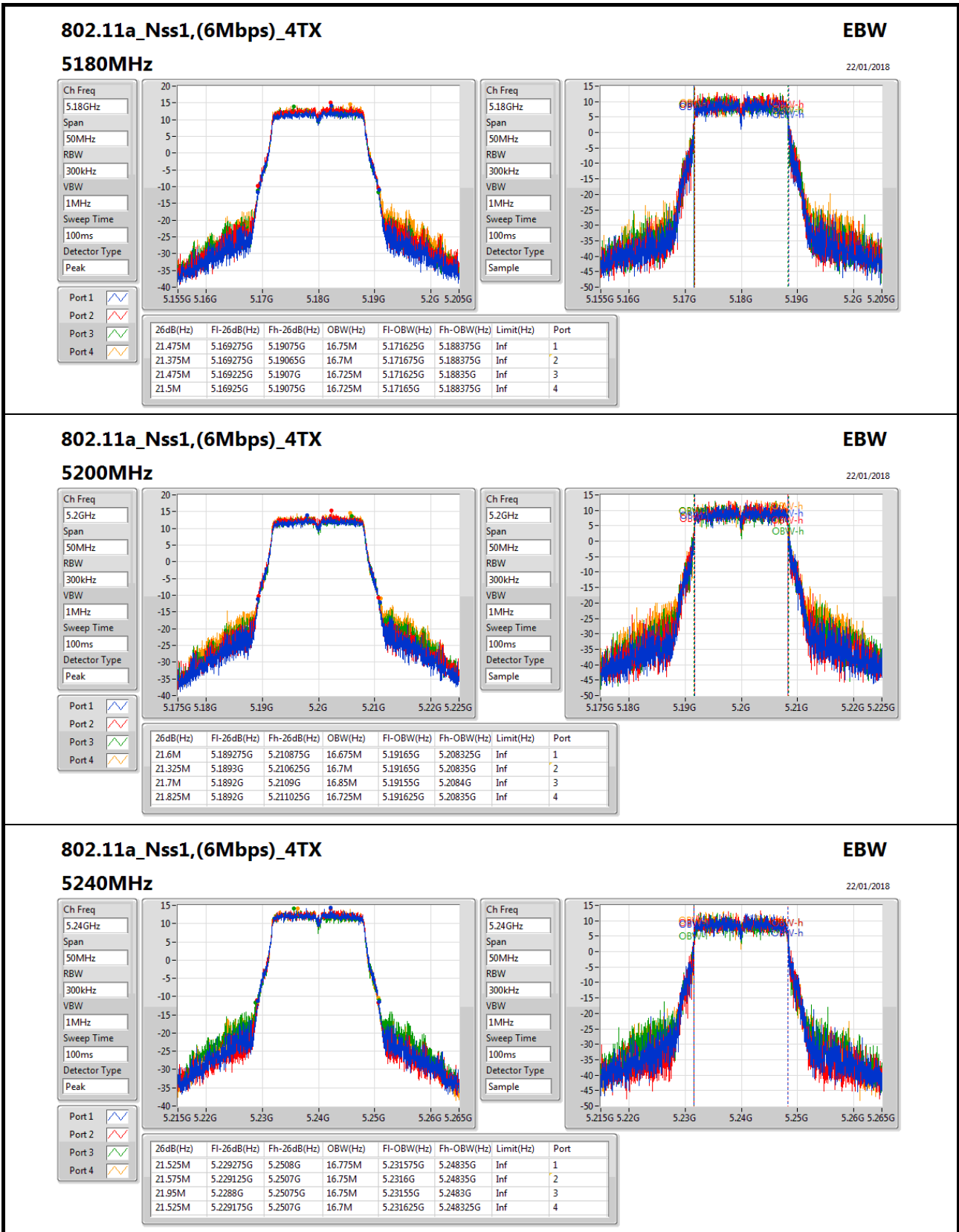




Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
5210MHz	Pass	Inf	81.6M	76.862M	81.8M	76.862M	82M	77.061M	82.1M	76.762M

**Port X-N dB** = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

**Port X-OBW** = Port X 99% occupied bandwidth;


**802.11a\_Nss1,(6Mbps)\_4TX**
**EBW**

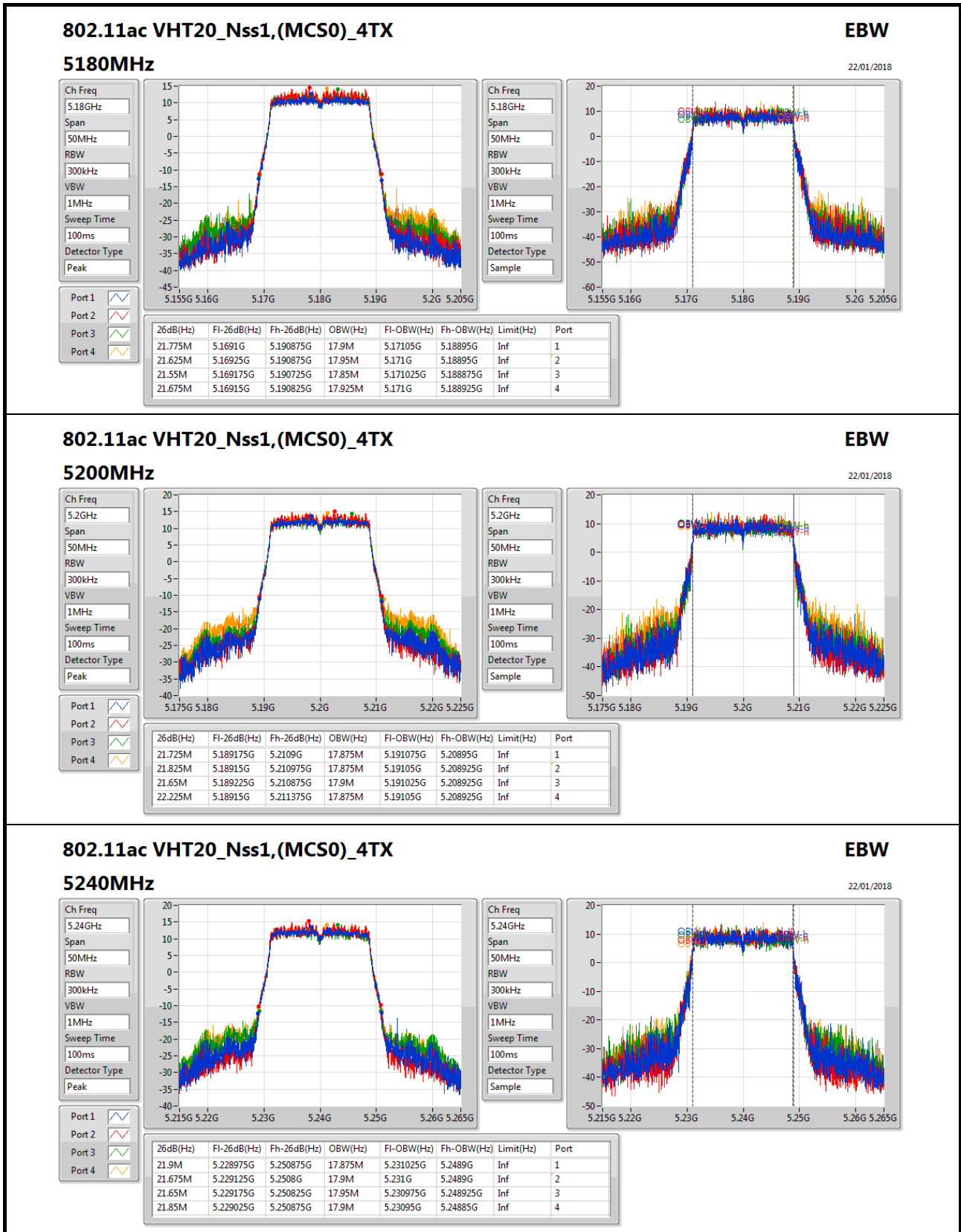
22/01/2018

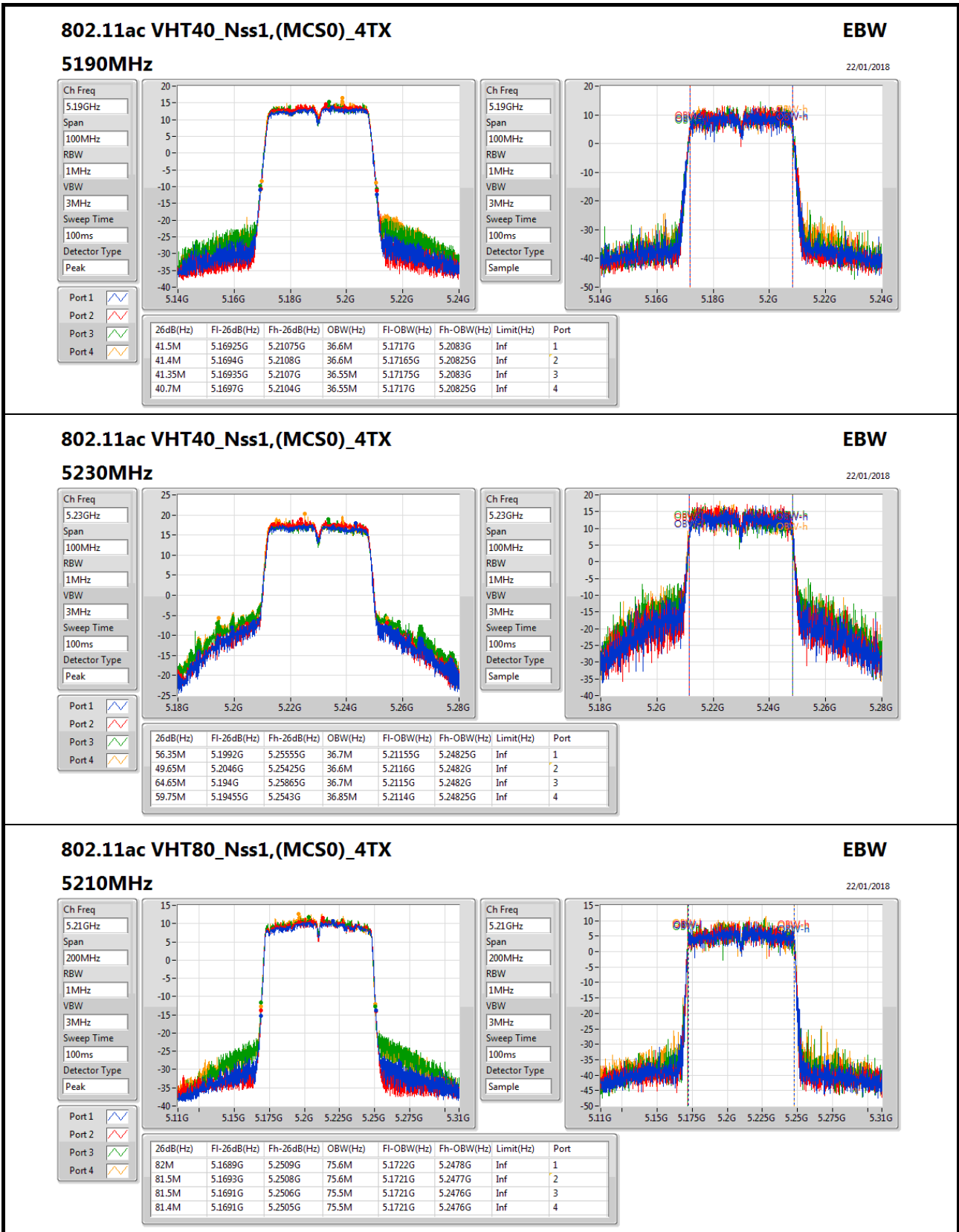
**5240MHz**

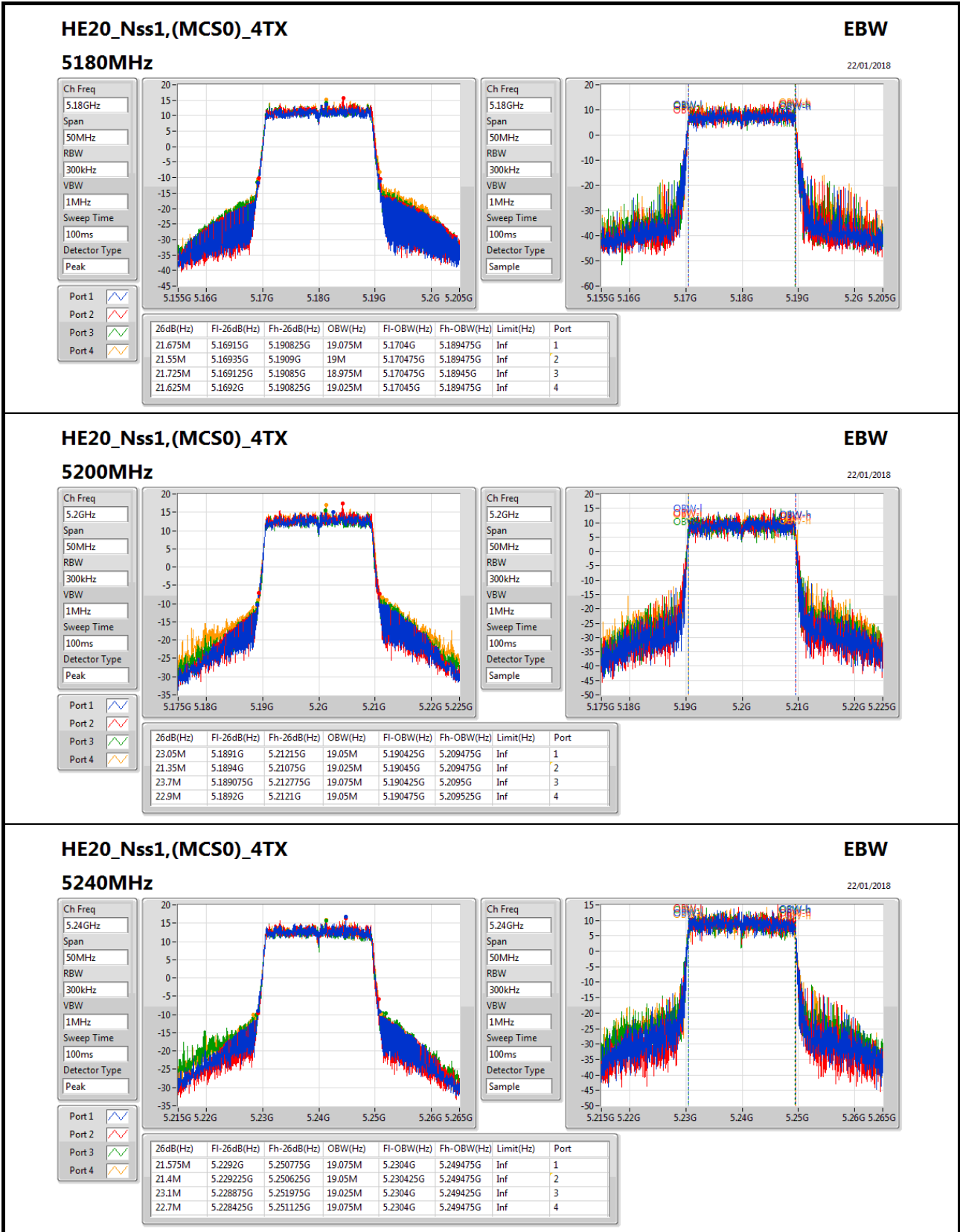
Ch Freq: 5.24GHz  
Span: 50MHz  
RBW: 300kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Peak

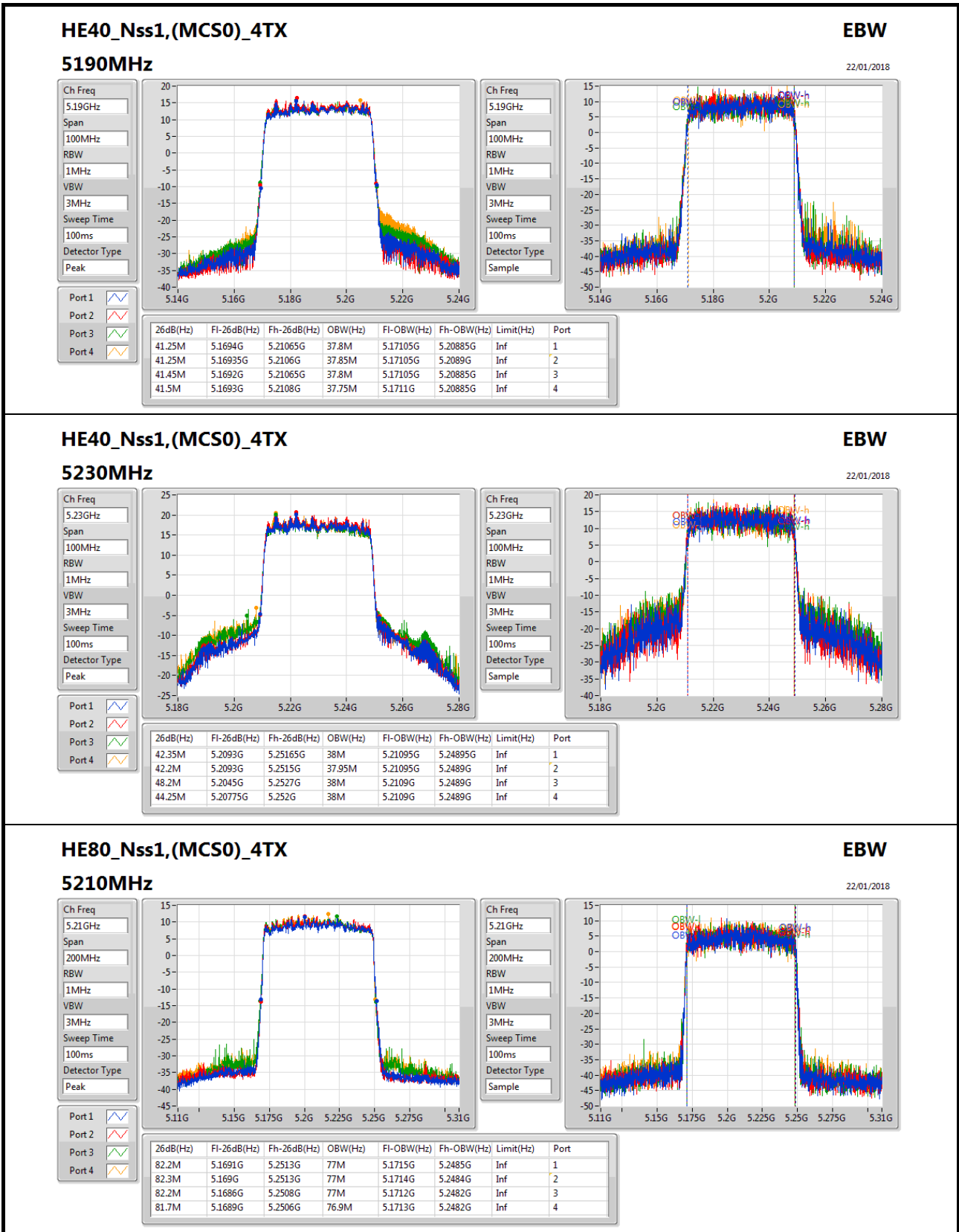
Ch Freq: 5.24GHz  
Span: 50MHz  
RBW: 300kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample

26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
21.525M	5.229275G	5.2508G	16.775M	5.231575G	5.24835G	Inf	1
21.575M	5.229125G	5.2507G	16.75M	5.2316G	5.24835G	Inf	2
21.95M	5.2288G	5.25075G	16.75M	5.23155G	5.2483G	Inf	3
21.525M	5.229175G	5.2507G	16.7M	5.231625G	5.248325G	Inf	4








**HE80\_Nss1,(MCS0)\_4TX**
**EBW**

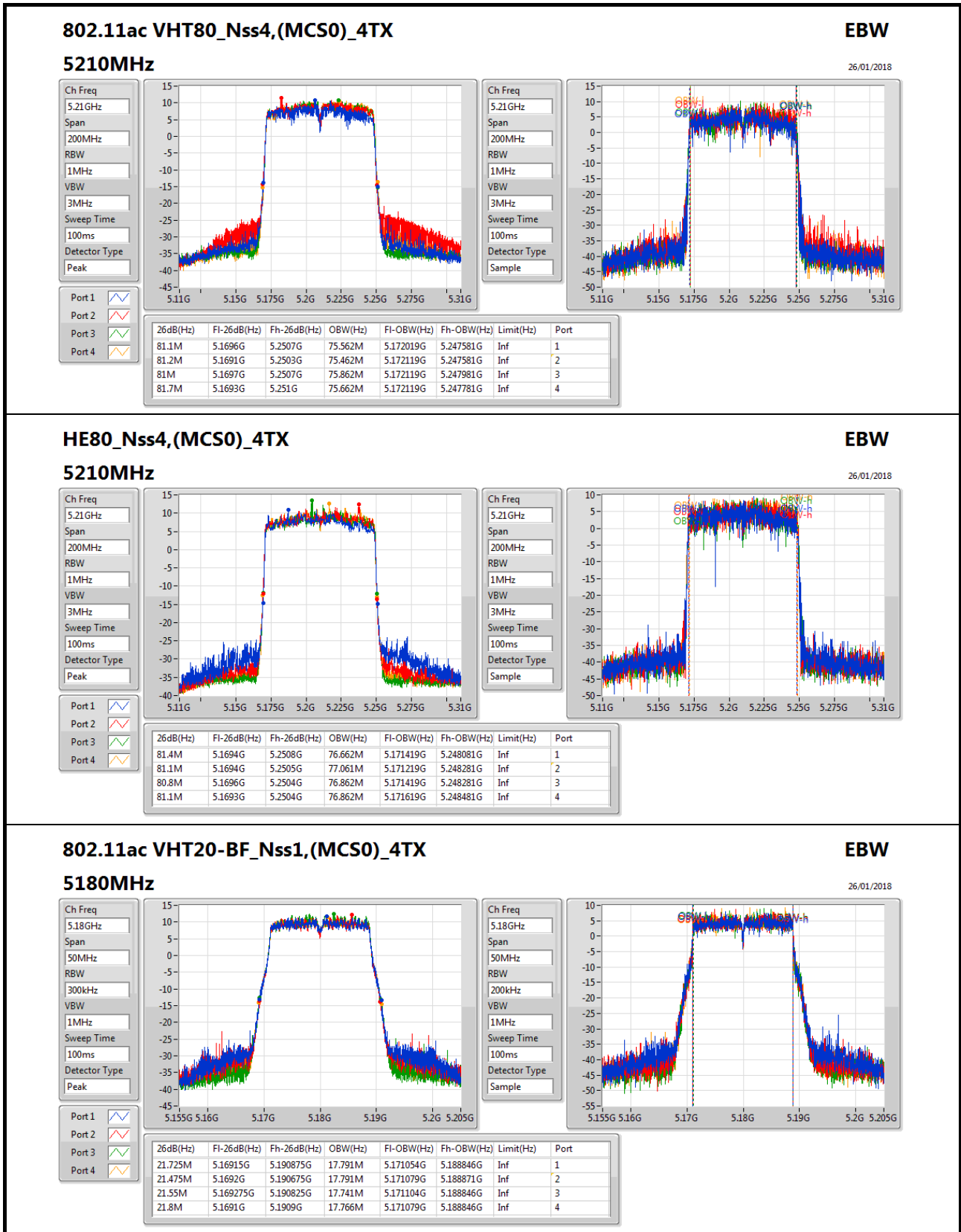
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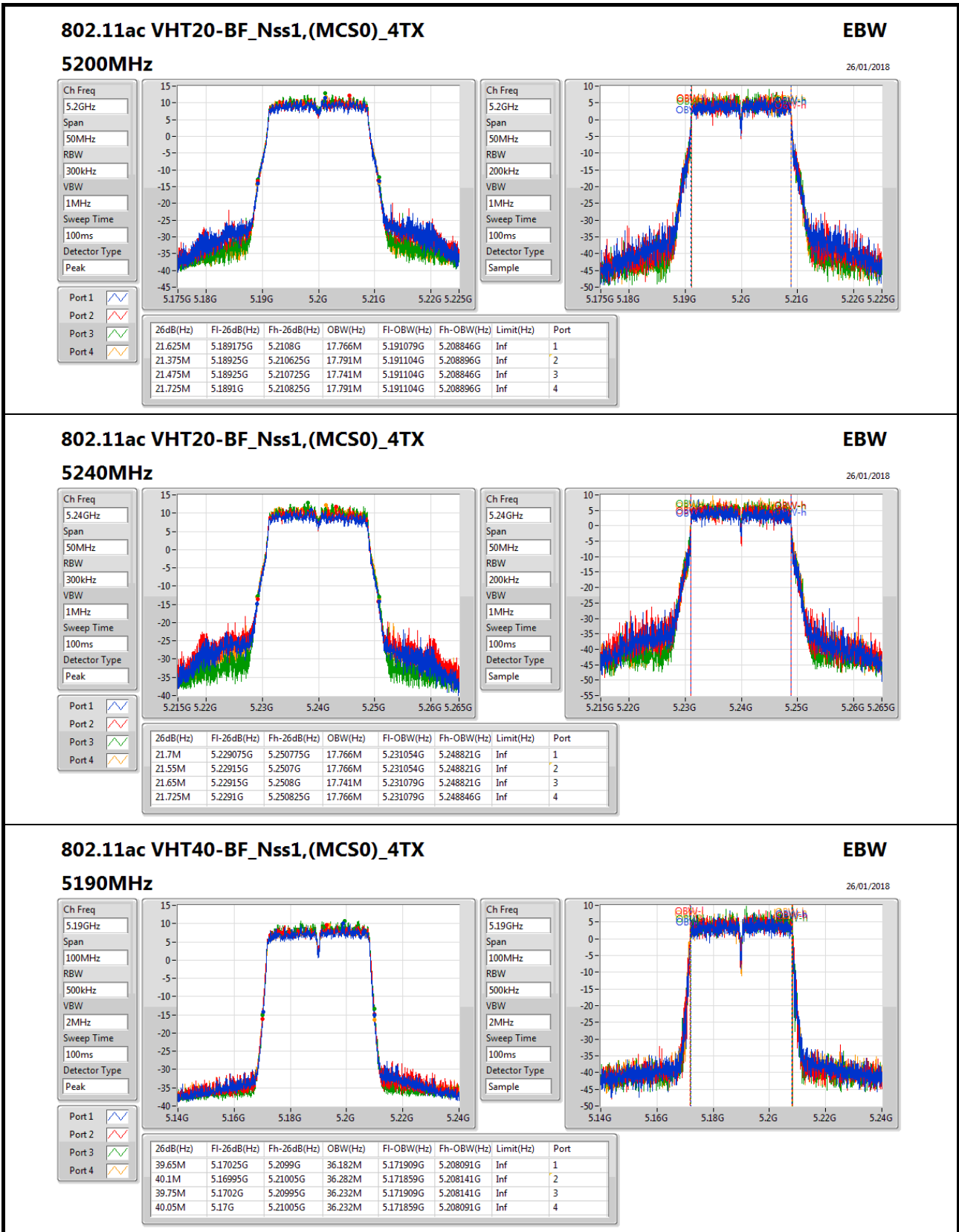
**5210MHz**

Ch Freq: 5.21GHz  
Span: 200MHz  
RBW: 1MHz  
VBW: 3MHz  
Sweep Time: 100ms  
Detector Type: Peak

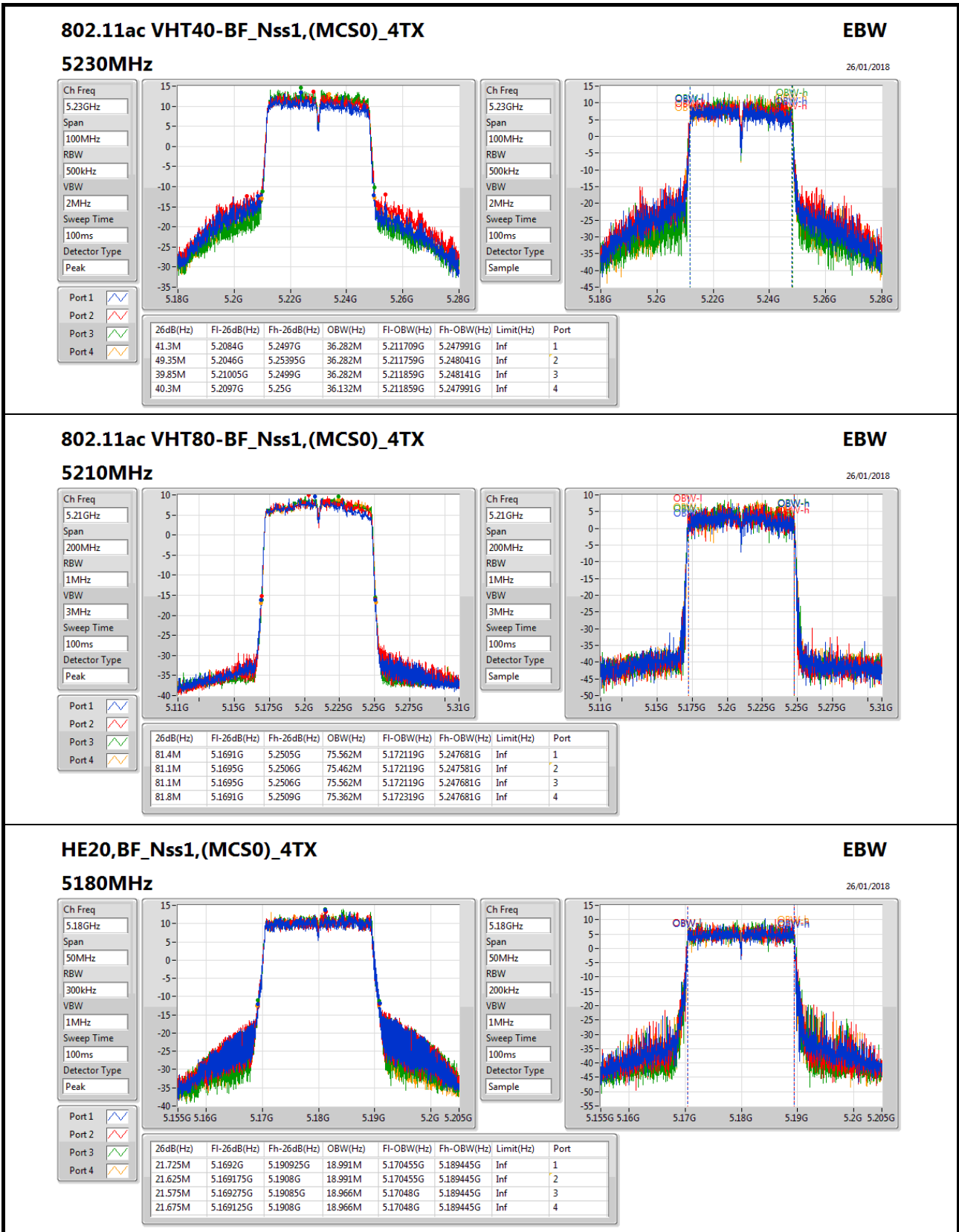
Ch Freq: 5.21GHz  
Span: 200MHz  
RBW: 1MHz  
VBW: 3MHz  
Sweep Time: 100ms  
Detector Type: Sample

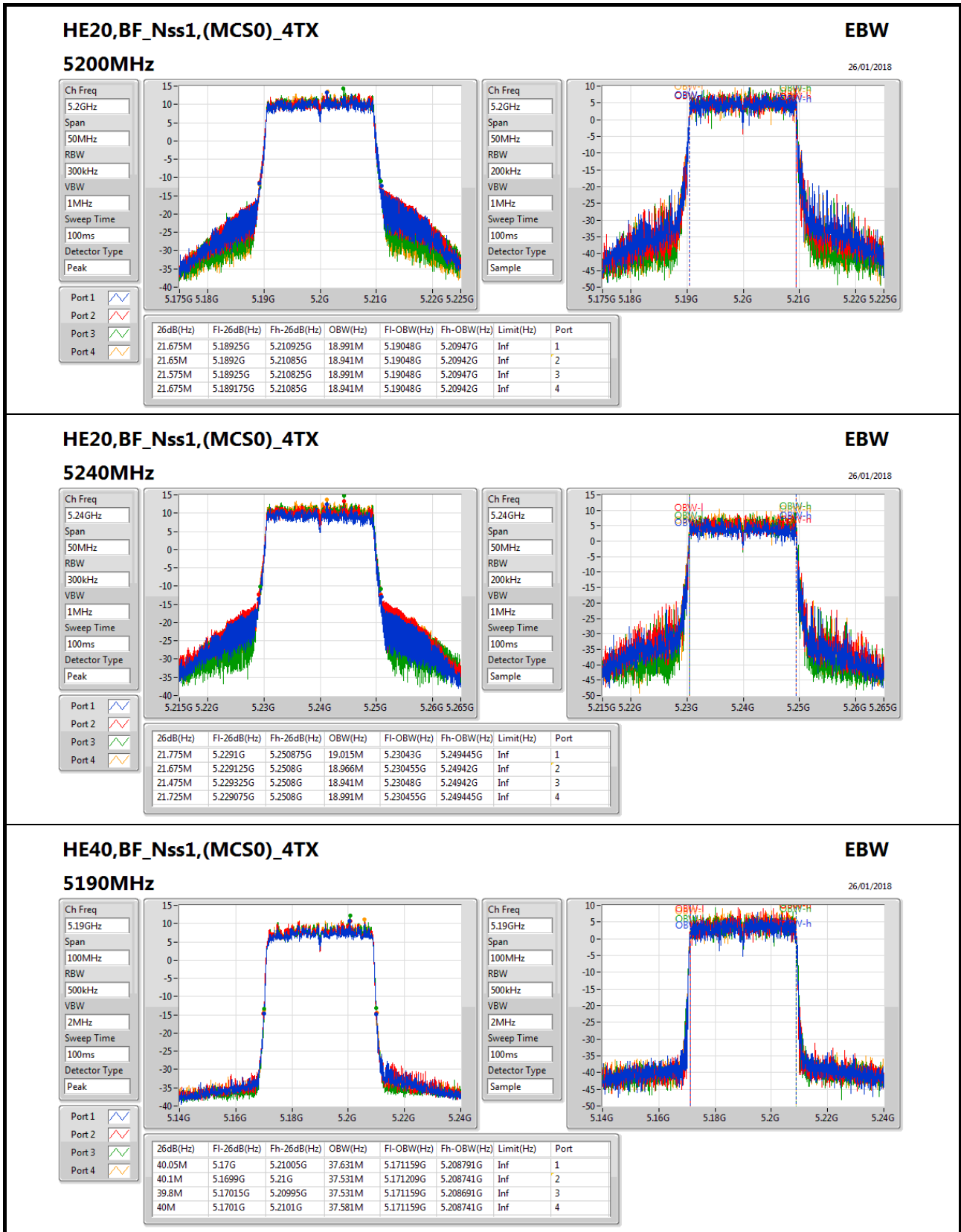
26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
82.2M	5.1691G	5.2513G	77M	5.1715G	5.2485G	Inf	1
82.3M	5.169G	5.2513G	77M	5.1714G	5.2484G	Inf	2
82.2M	5.1686G	5.2508G	77M	5.1712G	5.2482G	Inf	3
81.7M	5.1689G	5.2506G	76.9M	5.1713G	5.2482G	Inf	4

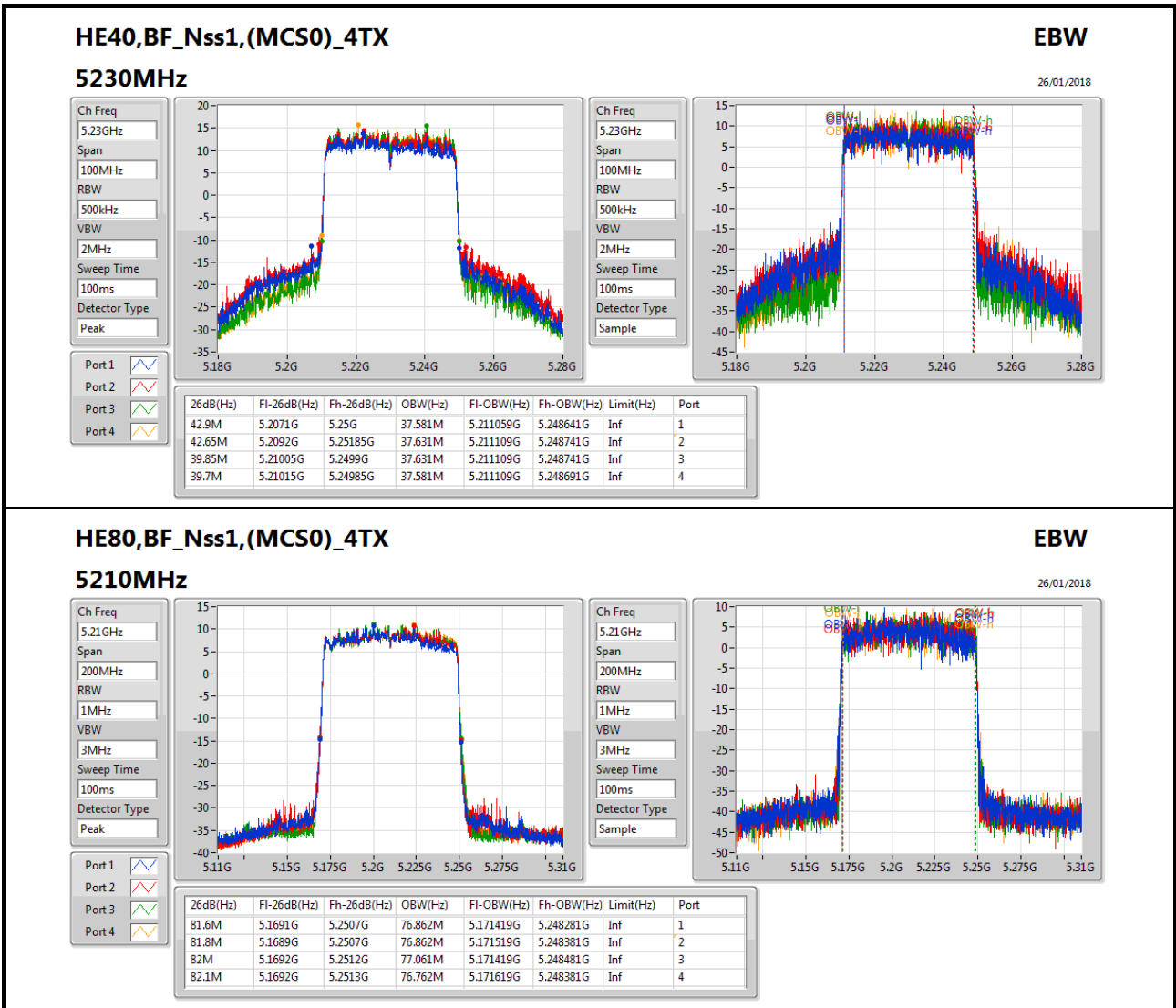














<For Band 4>

**Summary**

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.725-5.85GHz	-	-	-	-	-
802.11a_Nss1,(6Mbps)_4TX	16.35M	17.441M	17M4D1D	16.3M	16.692M
802.11ac VHT20_Nss1,(MCS0)_4TX	17.6M	18.241M	18M2D1D	17.525M	17.841M
802.11ac VHT40_Nss1,(MCS0)_4TX	36.35M	36.882M	36M9D1D	35.95M	36.282M
802.11ac VHT80_Nss1,(MCS0)_4TX	76M	76.462M	76M5D1D	75.1M	76.162M
HE20_Nss1,(MCS0)_4TX	18.975M	19.14M	19M1D1D	18.8M	19.015M
HE40_Nss1,(MCS0)_4TX	37.6M	37.931M	37M9D1D	37.3M	37.631M
HE80_Nss1,(MCS0)_4TX	76.7M	77.461M	77M5D1D	75.4M	77.361M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	17.6M	17.866M	17M9D1D	17.55M	17.766M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	36.35M	36.382M	36M4D1D	36.1M	36.232M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	76M	76.062M	76M1D1D	75.1M	75.862M
HE20_BF_Nss1,(MCS0)_4TX	19M	19.065M	19M1D1D	18.775M	18.966M
HE40_BF_Nss1,(MCS0)_4TX	37.55M	37.731M	37M7D1D	37.05M	37.531M
HE80_BF_Nss1,(MCS0)_4TX	76.6M	77.461M	77M5D1D	75.3M	77.061M
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	17.575M	18.391M	18M4D1D	17.525M	17.841M
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	36.35M	36.882M	36M9D1D	36.1M	36.432M
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	75.9M	76.562M	76M6D1D	75.1M	76.062M
HE20_BF_Nss2,(MCS0)_4TX	18.975M	19.19M	19M2D1D	18.7M	19.015M
HE40_BF_Nss2,(MCS0)_4TX	37.6M	38.031M	38M0D1D	37.4M	37.681M
HE80_BF_Nss2,(MCS0)_4TX	77.2M	77.861M	77M9D1D	75.3M	77.261M
802.11ac VHT80_Nss4,(MCS0)_4TX	75.7M	81.1M	81M1D1D	73.9M	77M
HE80_Nss4,(MCS0)_4TX	76M	83M	83M0D1D	75.3M	78.4M

**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)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	16.35M	16.717M	16.325M	16.692M	16.35M	16.742M	16.35M	16.817M
5785MHz	Pass	500k	16.325M	17.116M	16.325M	16.742M	16.325M	16.842M	16.325M	17.291M
5825MHz	Pass	500k	16.3M	17.266M	16.3M	16.917M	16.325M	17.066M	16.3M	17.441M
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	17.55M	17.866M	17.6M	17.841M	17.55M	17.891M	17.6M	17.991M
5785MHz	Pass	500k	17.55M	18.116M	17.55M	17.891M	17.55M	17.941M	17.55M	18.241M
5825MHz	Pass	500k	17.55M	18.016M	17.525M	17.991M	17.55M	18.066M	17.575M	18.216M
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	36.35M	36.532M	36.35M	36.282M	36.35M	36.532M	36.35M	36.582M
5795MHz	Pass	500k	35.95M	36.682M	36.35M	36.482M	36.35M	36.632M	36.35M	36.882M
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.2M	76.262M	76M	76.162M	75.2M	76.162M	75.1M	76.462M
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.975M	19.015M	18.825M	19.015M	18.875M	19.015M	18.925M	19.09M
5785MHz	Pass	500k	18.9M	19.14M	18.95M	19.04M	18.85M	19.04M	18.8M	19.14M
5825MHz	Pass	500k	18.925M	19.14M	18.95M	19.115M	18.9M	19.09M	18.825M	19.115M
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.4M	37.781M	37.55M	37.631M	37.3M	37.831M	37.5M	37.681M
5795MHz	Pass	500k	37.5M	37.931M	37.6M	37.781M	37.3M	37.831M	37.55M	37.881M
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	76.7M	77.361M	76.3M	77.361M	75.4M	77.361M	75.7M	77.461M
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	17.55M	17.766M	17.6M	17.791M	17.6M	17.791M	17.6M	17.816M
5785MHz	Pass	500k	17.55M	17.866M	17.575M	17.791M	17.6M	17.816M	17.6M	17.841M
5825MHz	Pass	500k	17.55M	17.866M	17.575M	17.841M	17.575M	17.841M	17.55M	17.866M
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	36.35M	36.382M	36.35M	36.282M	36.35M	36.282M	36.35M	36.332M
5795MHz	Pass	500k	36.1M	36.332M	36.35M	36.232M	36.35M	36.332M	36.3M	36.382M
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.7M	76.062M	76M	75.962M	75.1M	75.862M	75.7M	75.962M
HE20_BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.975M	18.991M	18.775M	18.966M	18.925M	18.966M	18.925M	18.991M
5785MHz	Pass	500k	18.9M	19.015M	18.975M	19.015M	18.9M	19.015M	18.95M	19.015M
5825MHz	Pass	500k	19M	19.065M	18.925M	18.991M	18.9M	19.015M	18.925M	19.065M
HE40_BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.45M	37.581M	37.1M	37.531M	37.35M	37.731M	37.55M	37.581M
5795MHz	Pass	500k	37.45M	37.681M	37.05M	37.681M	37.25M	37.681M	37.2M	37.681M
HE80_BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	76.6M	77.461M	75.7M	77.261M	75.3M	77.061M	75.7M	77.361M
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	17.575M	17.866M	17.575M	17.841M	17.55M	17.891M	17.55M	17.916M
5785MHz	Pass	500k	17.55M	18.166M	17.575M	17.891M	17.525M	17.941M	17.575M	18.341M
5825MHz	Pass	500k	17.525M	18.216M	17.55M	18.091M	17.575M	18.141M	17.575M	18.391M



Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	36.15M	36.582M	36.3M	36.432M	36.35M	36.432M	36.1M	36.482M
5795MHz	Pass	500k	36.3M	36.682M	36.3M	36.482M	36.35M	36.532M	36.35M	36.882M
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.1M	76.362M	75.9M	76.062M	75.2M	76.162M	75.7M	76.562M
HE20,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5745MHz	Pass	500k	18.975M	19.065M	18.9M	19.015M	18.875M	19.04M	18.875M	19.065M
5785MHz	Pass	500k	18.9M	19.19M	18.975M	19.04M	18.85M	19.09M	18.8M	19.165M
5825MHz	Pass	500k	18.825M	19.14M	18.8M	19.115M	18.7M	19.115M	18.725M	19.19M
HE40,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5755MHz	Pass	500k	37.45M	37.731M	37.55M	37.681M	37.4M	37.731M	37.55M	37.831M
5795MHz	Pass	500k	37.5M	37.881M	37.6M	37.831M	37.45M	37.831M	37.6M	38.031M
HE80,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	77.2M	77.861M	76M	77.261M	75.3M	77.461M	76M	77.861M
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.1M	81.1M	73.9M	77M	75.1M	77.3M	75.7M	78.1M
HE80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5775MHz	Pass	500k	75.3M	83M	75.5M	78.4M	75.5M	78.8M	76M	80.7M

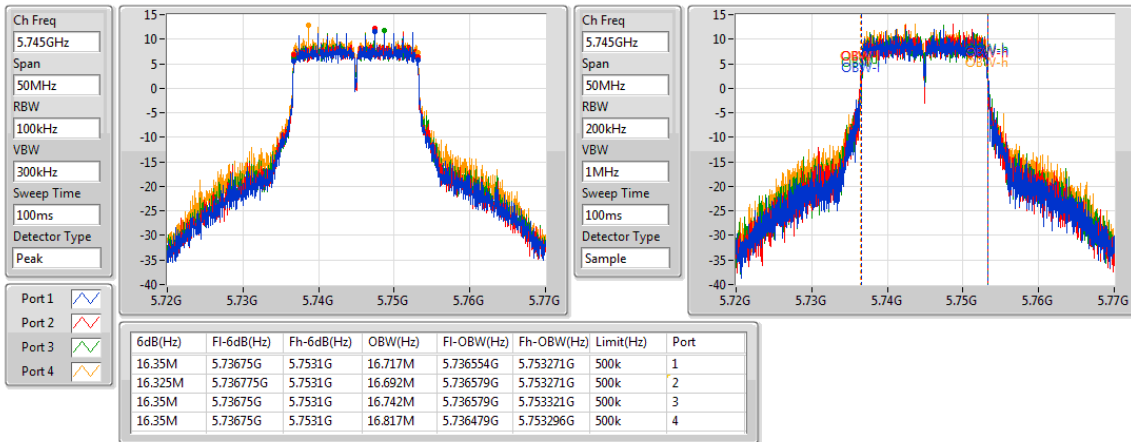
**Port X-N dB** = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

**802.11a\_Nss1,(6Mbps)\_4TX**

**EBW**

**5745MHz**

31/01/2018

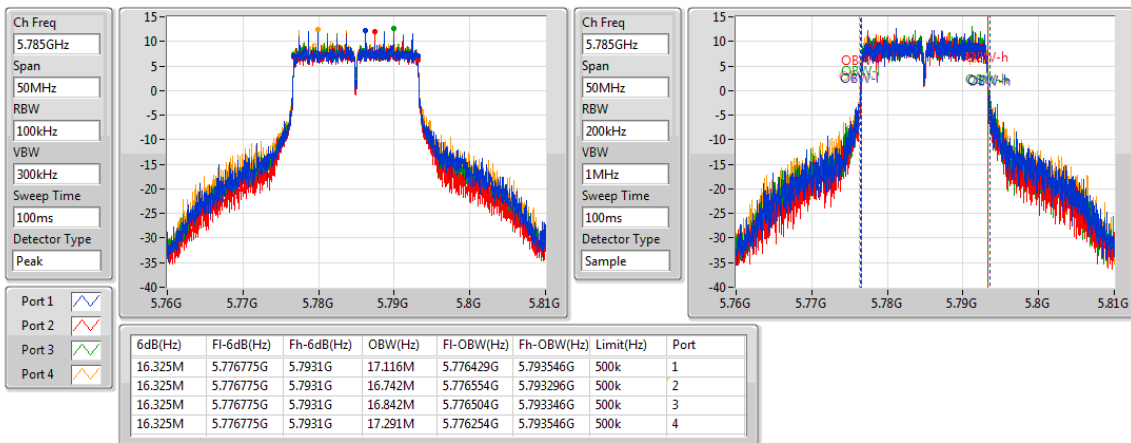


**802.11a\_Nss1,(6Mbps)\_4TX**

**EBW**

**5785MHz**

31/01/2018

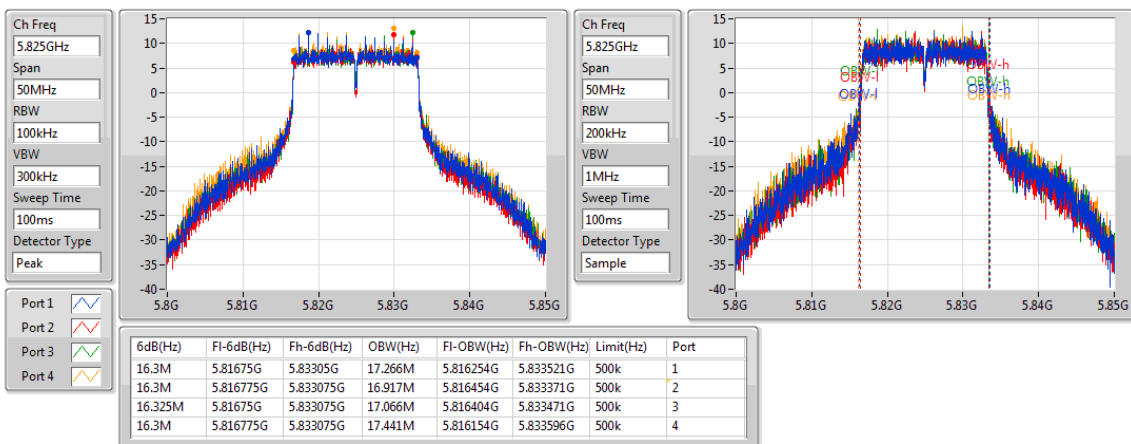


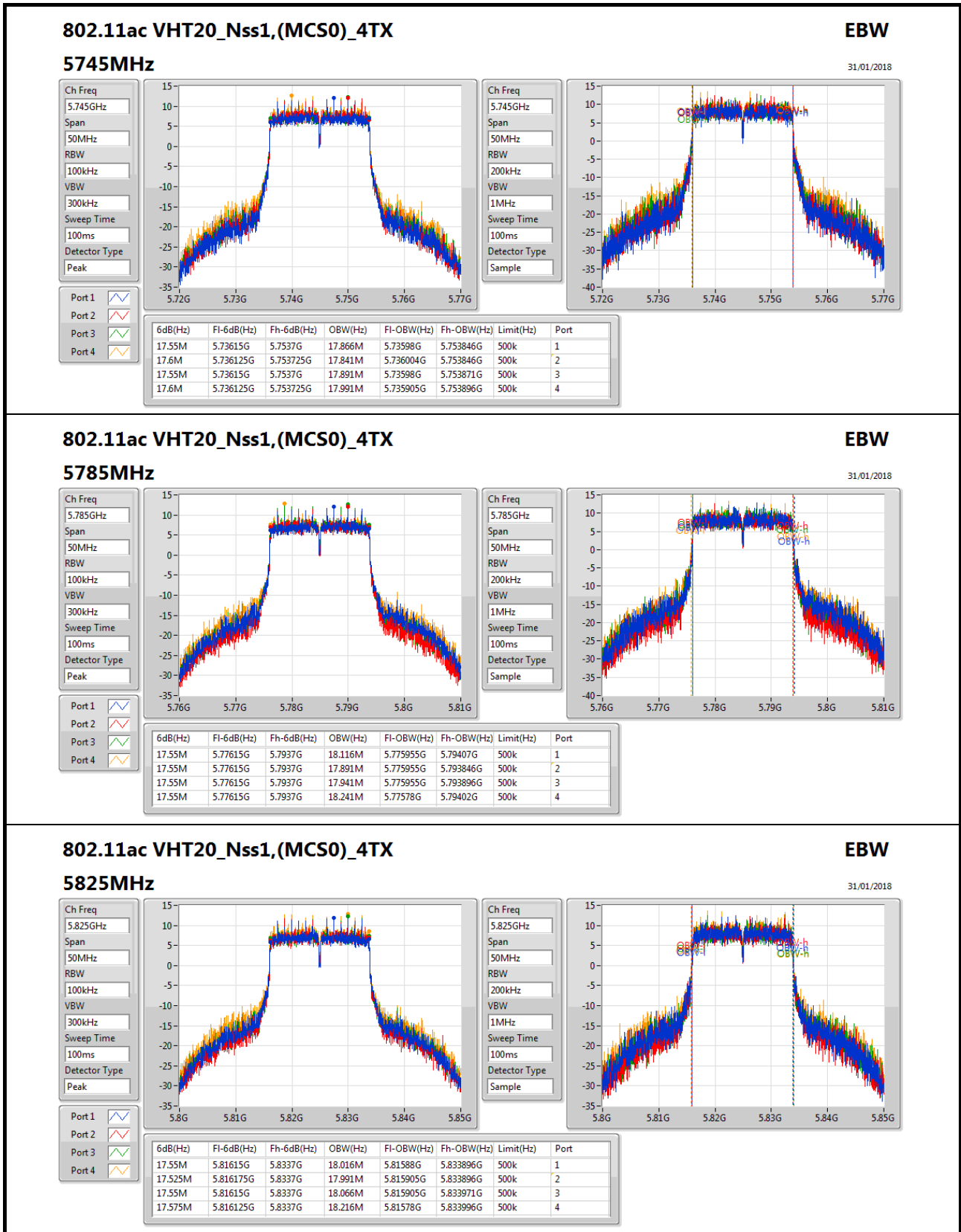
**802.11a\_Nss1,(6Mbps)\_4TX**

**EBW**

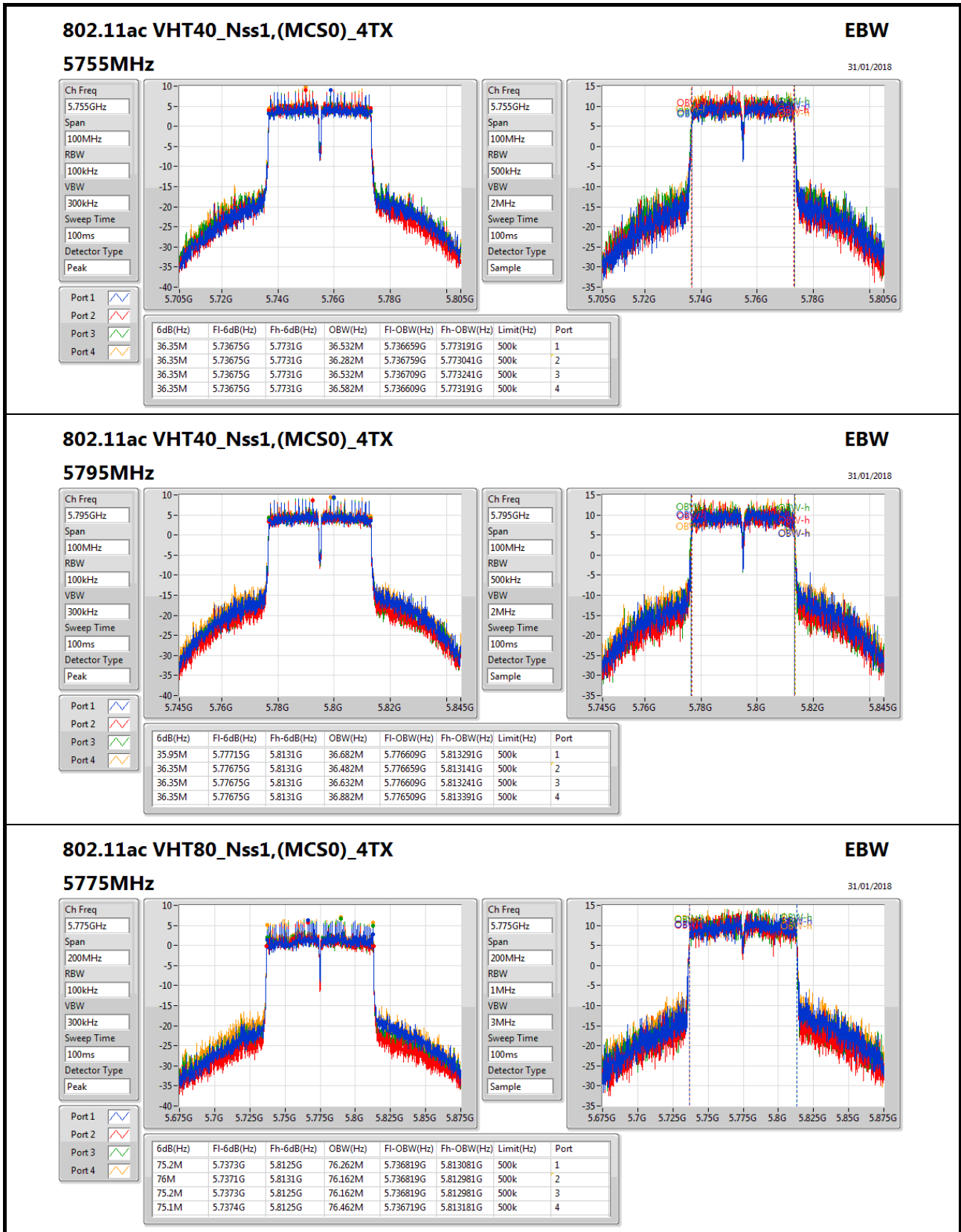
**5825MHz**

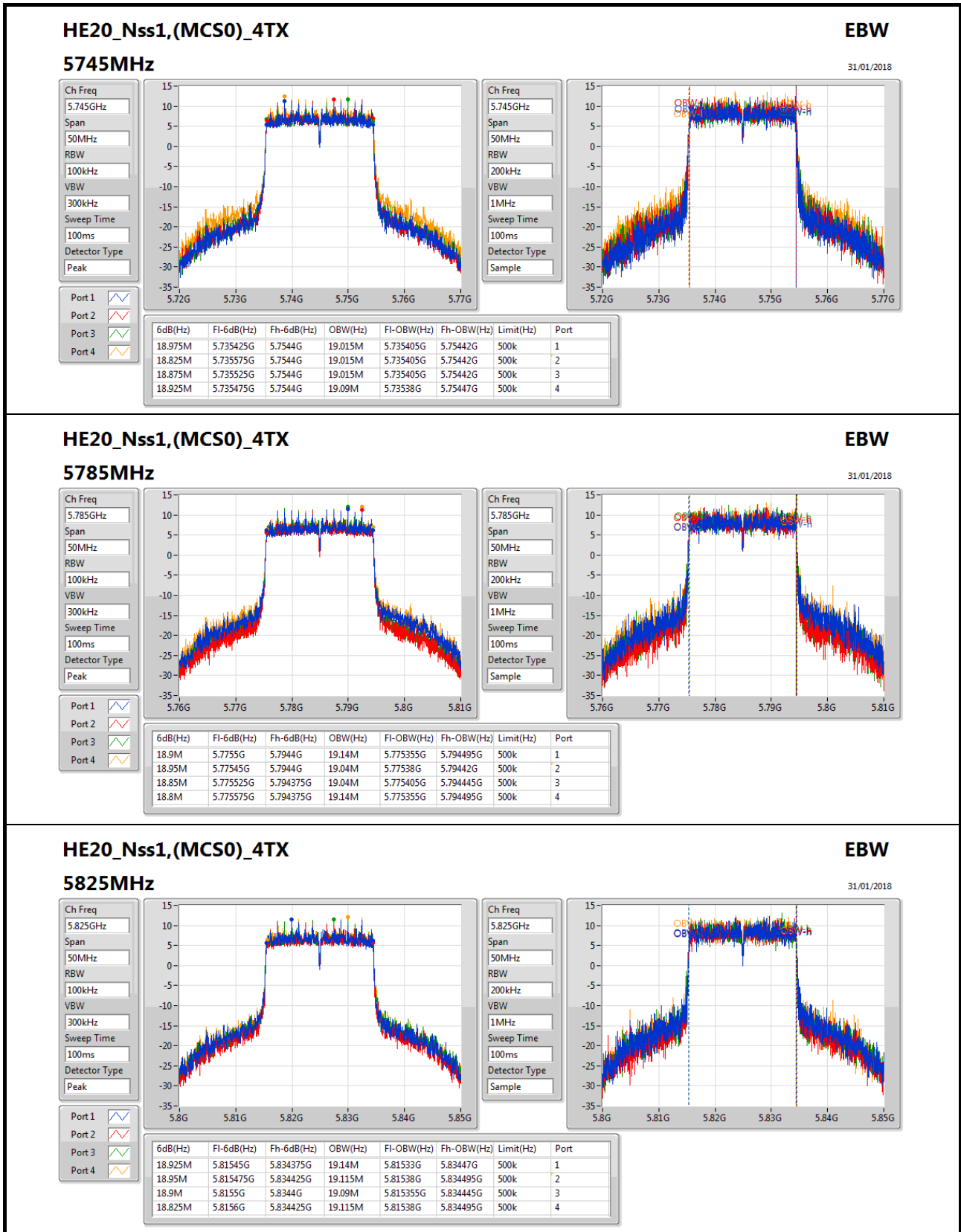
31/01/2018

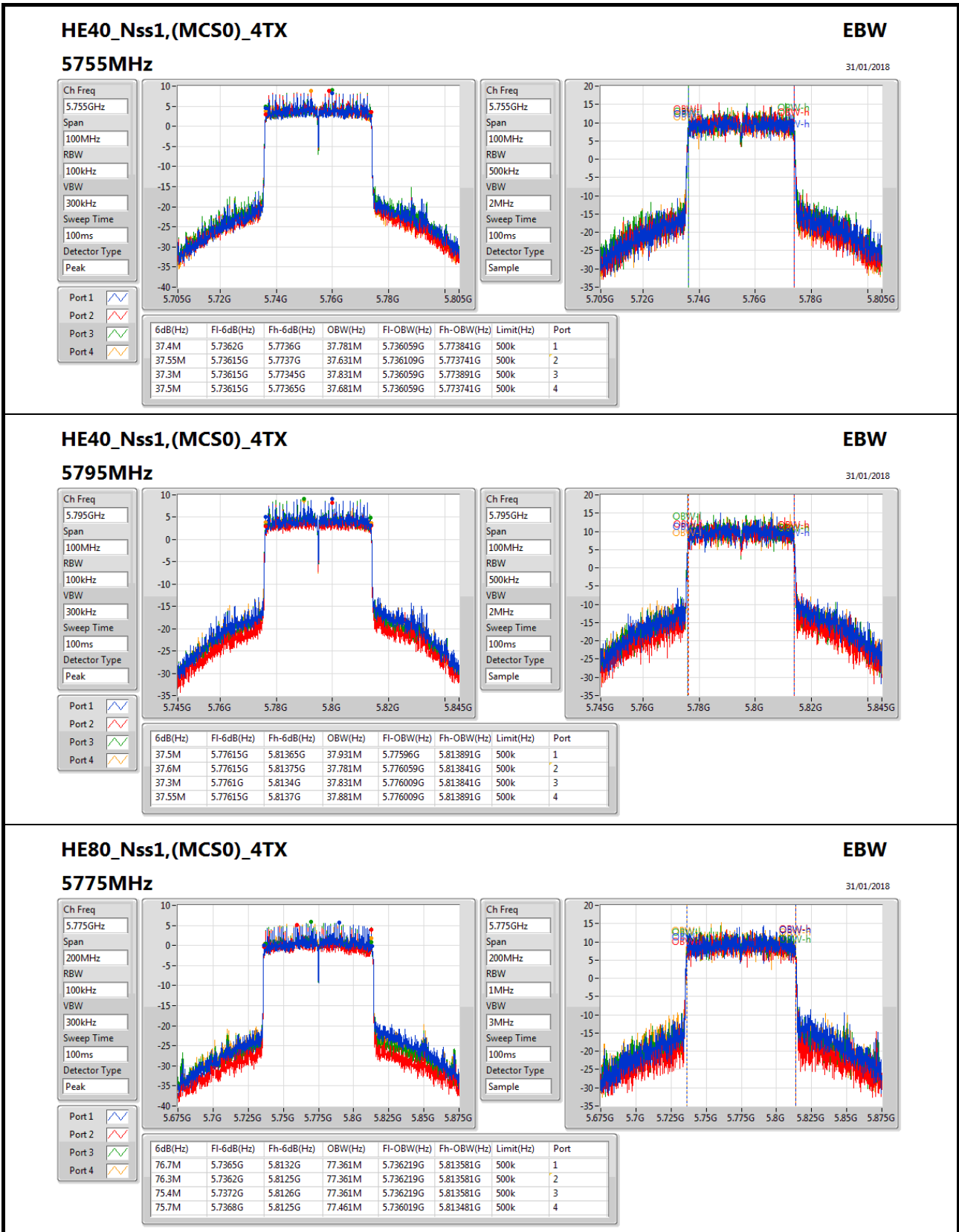


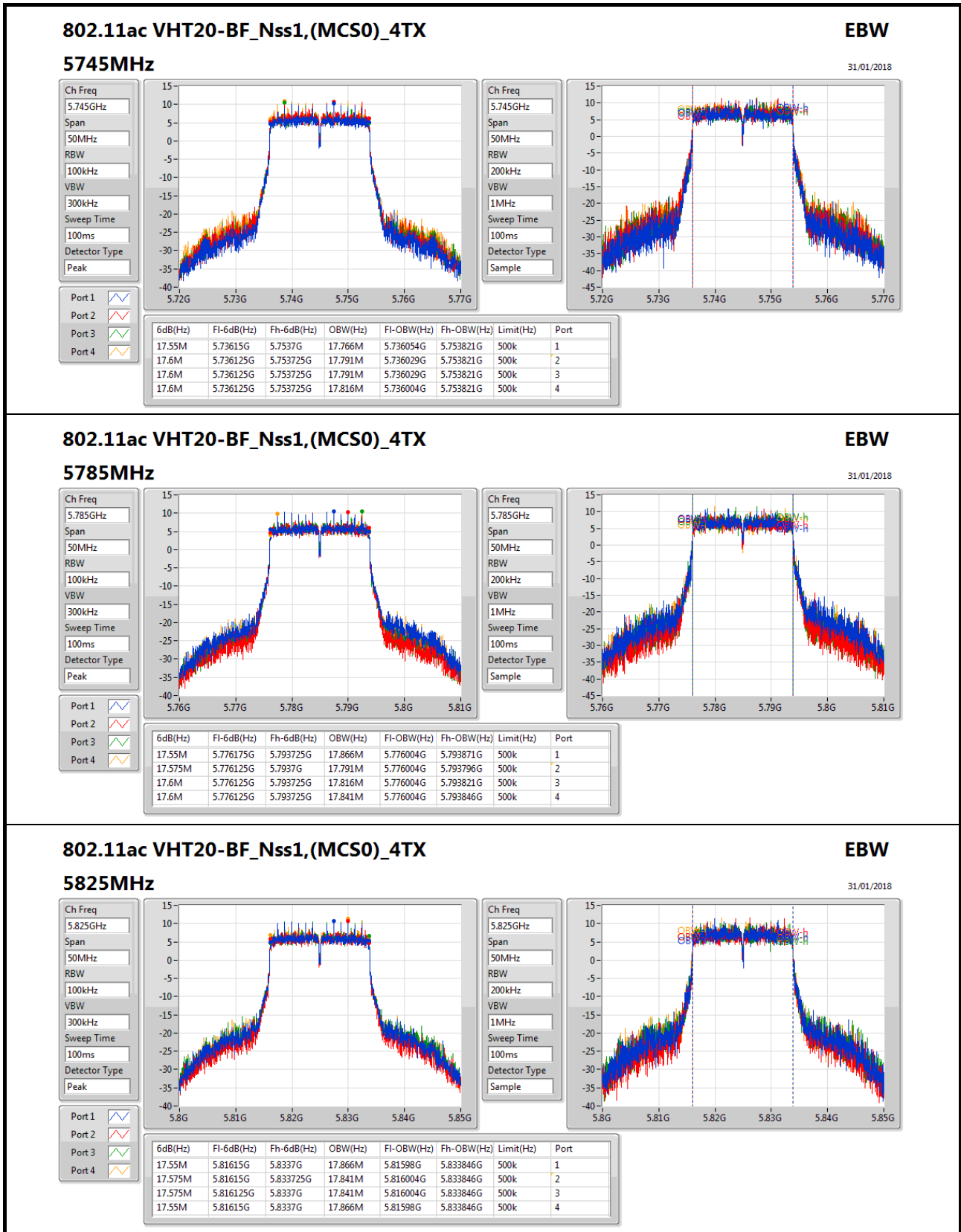






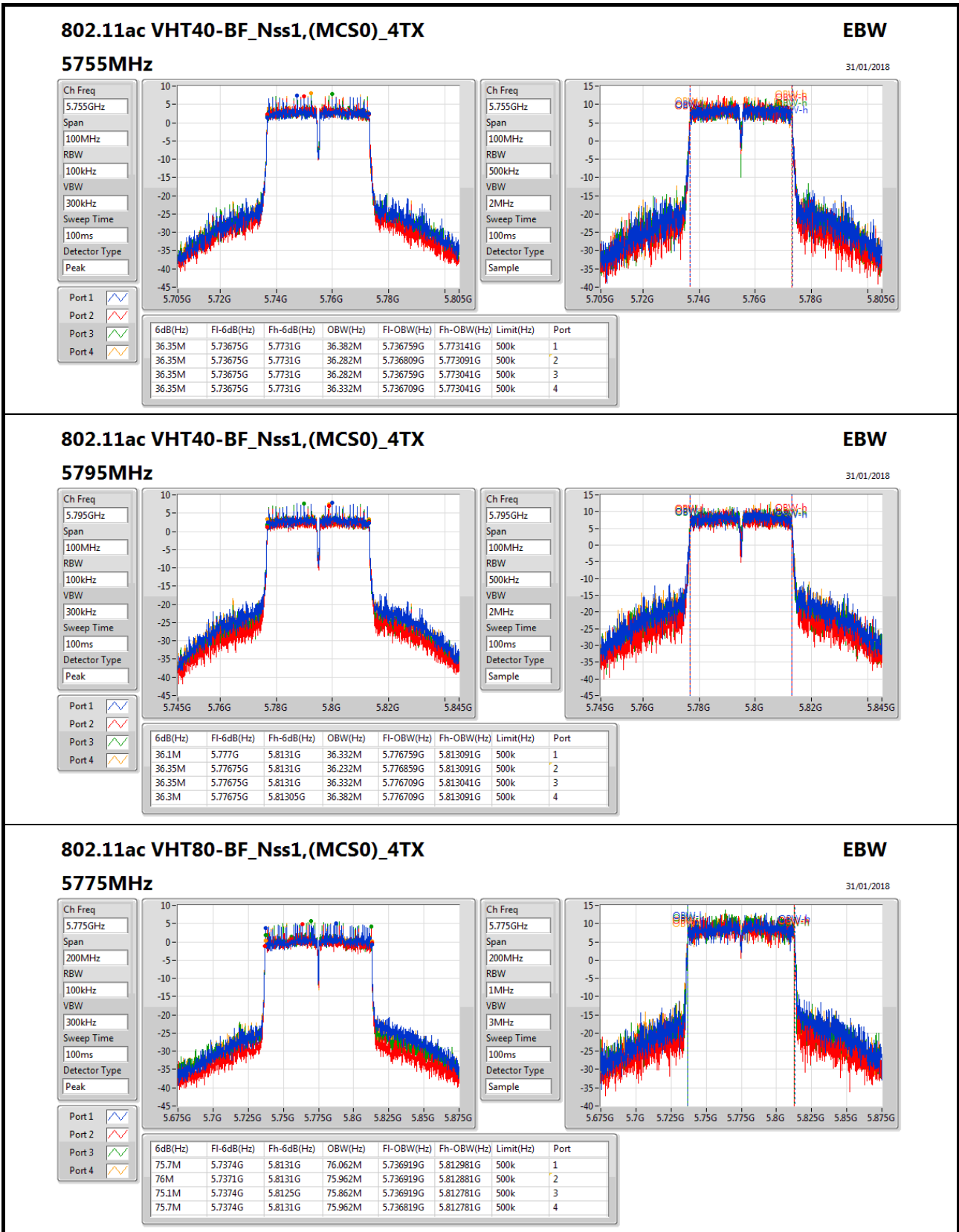


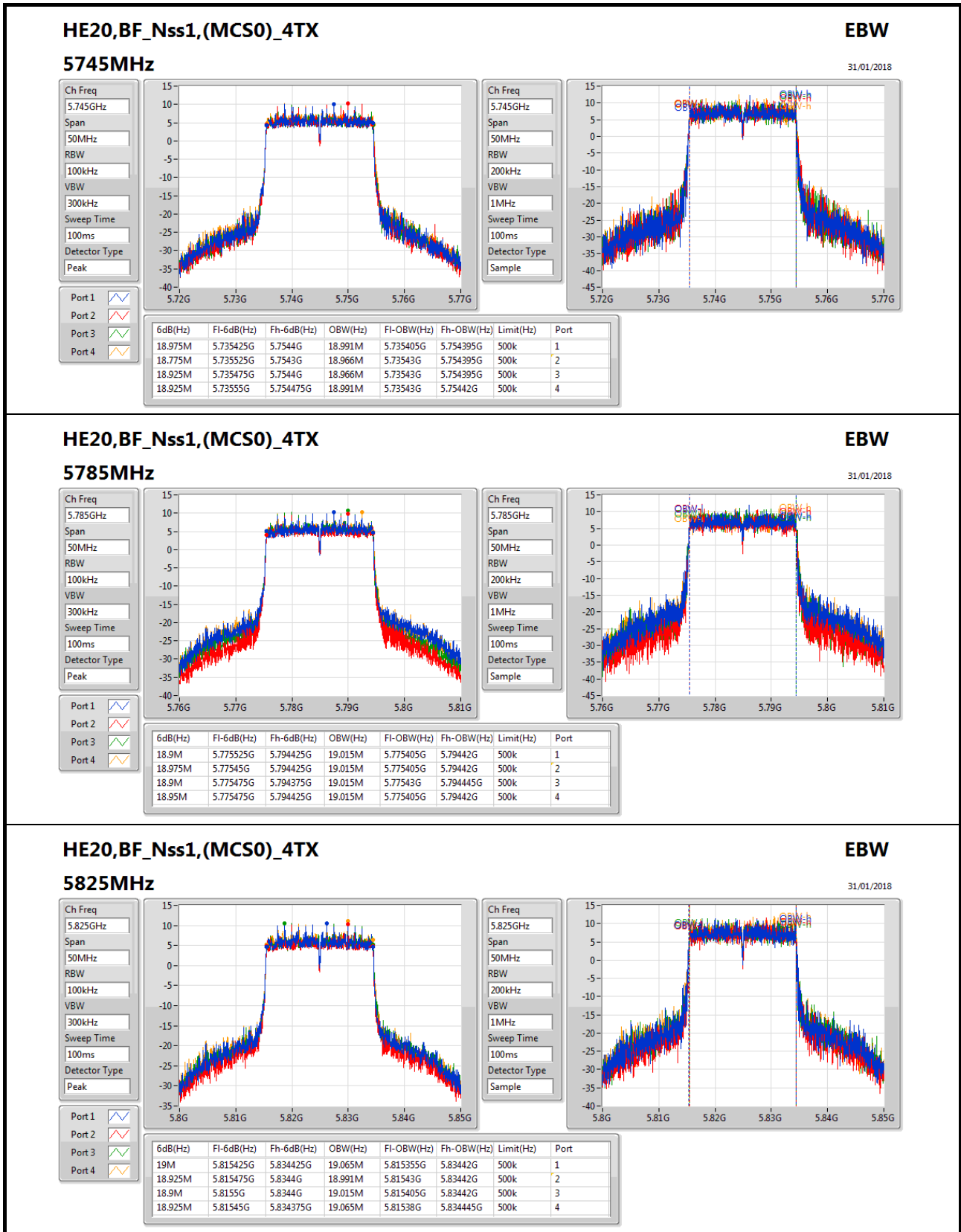



**802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX**
**EBW**
**5825MHz**
31/01/2018

Ch Freq: 5.825GHz  
Span: 50MHz  
RBW: 100kHz  
VBW: 300kHz  
Sweep Time: 100ms  
Detector Type: Peak

Ch Freq: 5.825GHz  
Span: 50MHz  
RBW: 200kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample




**HE20,BF\_Nss1,(MCS0)\_4TX**
**EBW**

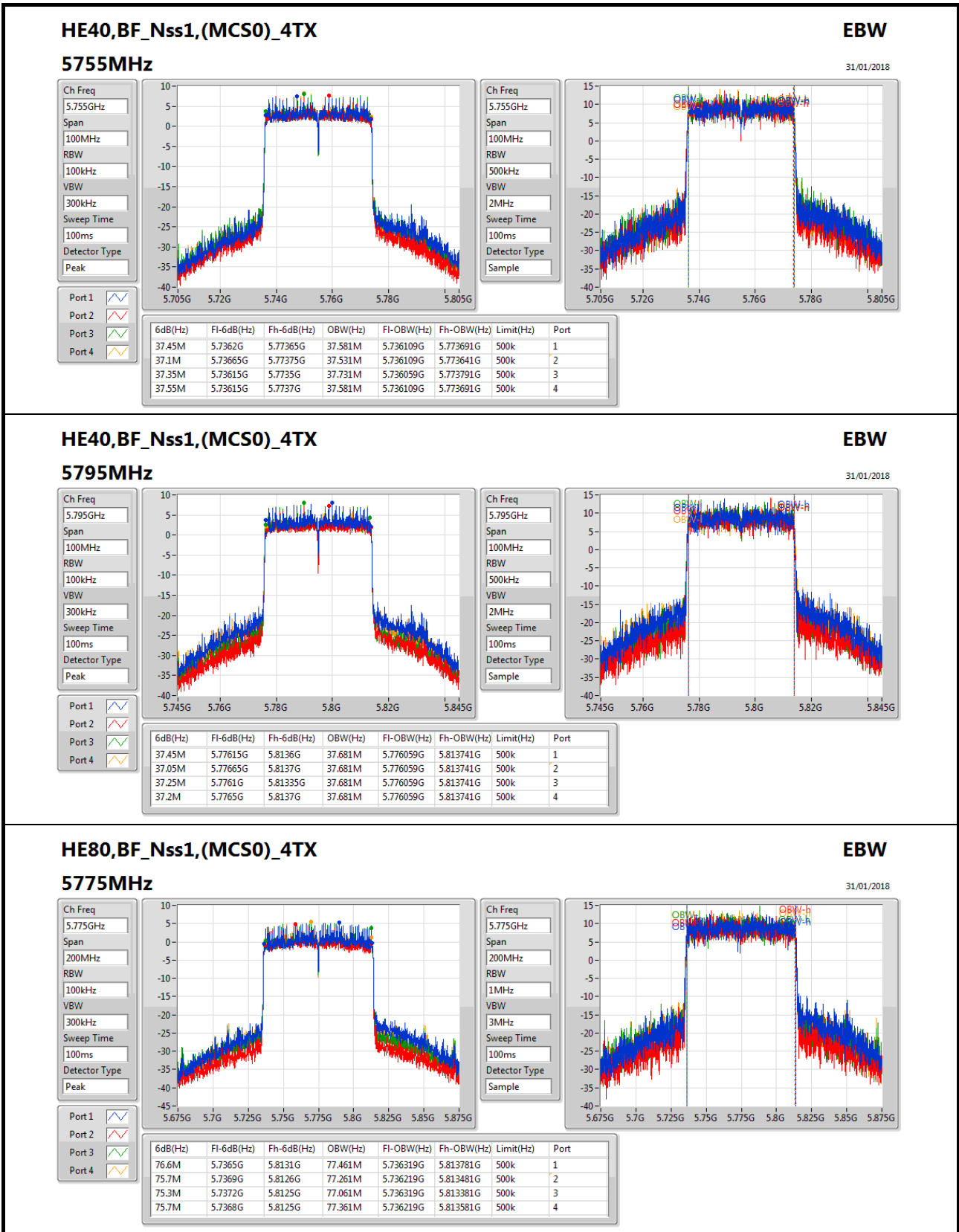
31/01/2018

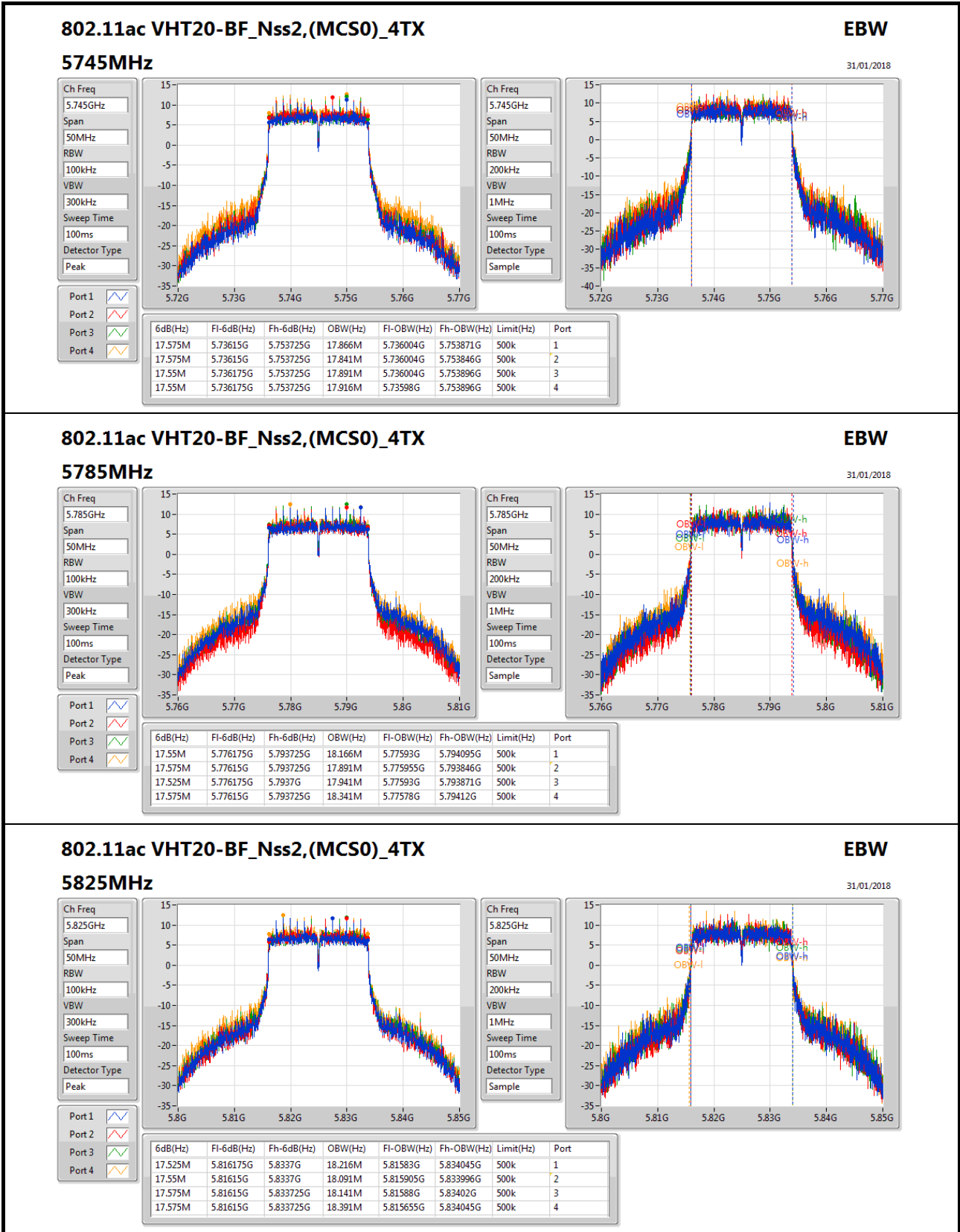
**5825MHz**

Ch Freq: 5.825GHz  
Span: 50MHz  
RBW: 100kHz  
VBW: 300kHz  
Sweep Time: 100ms  
Detector Type: Peak

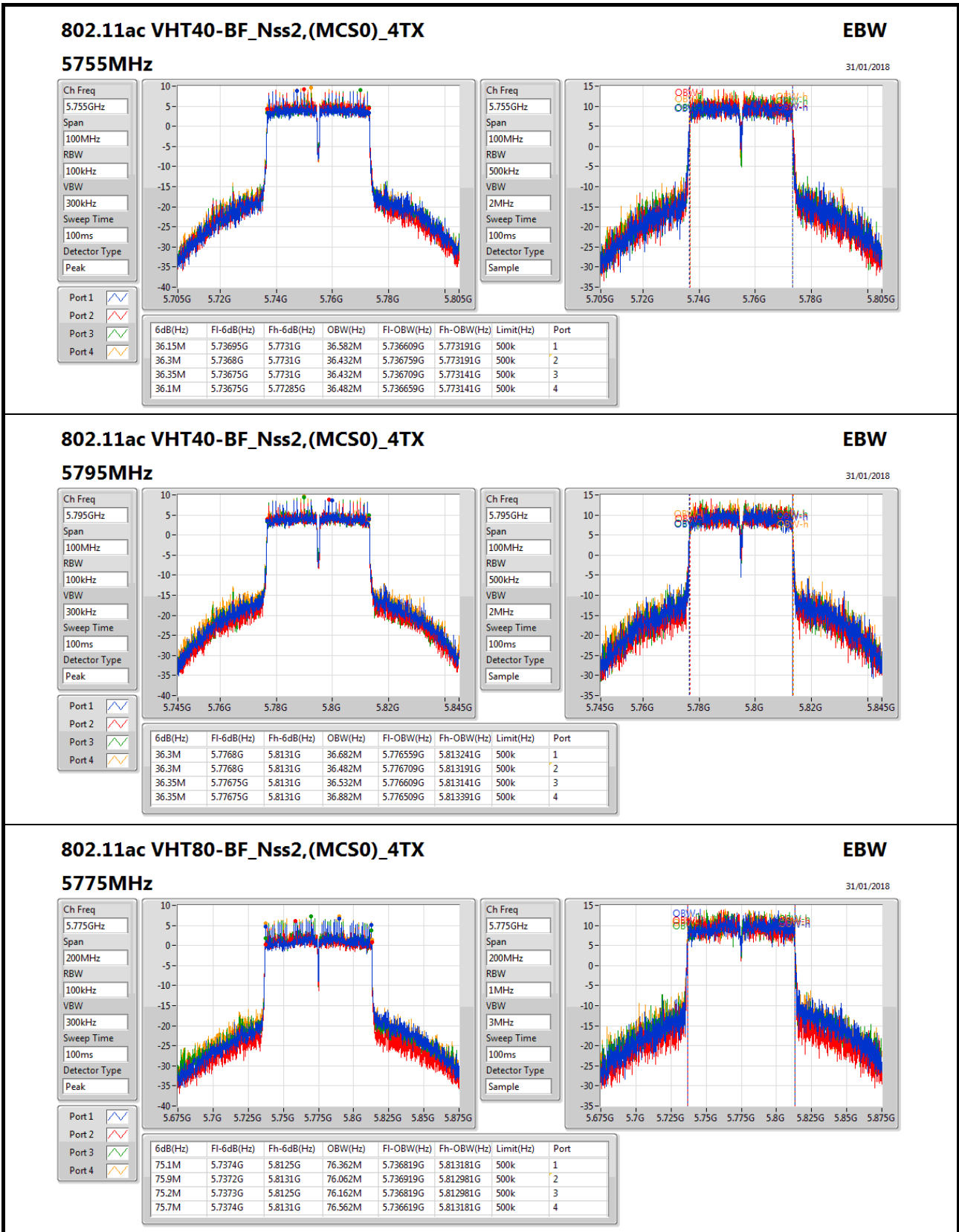
Ch Freq: 5.825GHz  
Span: 50MHz  
RBW: 200kHz  
VBW: 1MHz  
Sweep Time: 100ms  
Detector Type: Sample

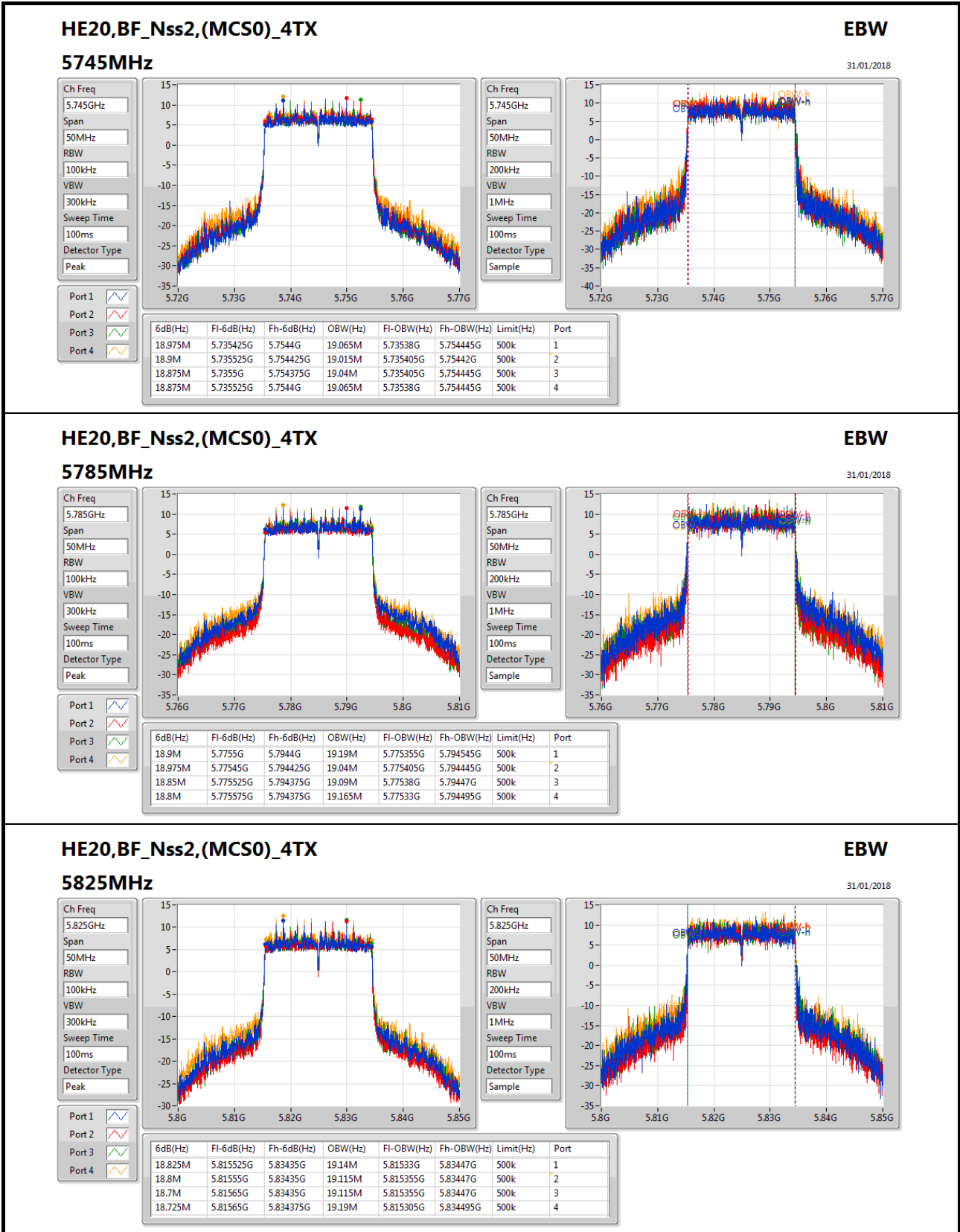
6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19M	5.815425G	5.834425G	19.065M	5.815355G	5.83442G	500k	1
18.925M	5.815475G	5.8344G	18.991M	5.81543G	5.83442G	500k	2
18.9M	5.8155G	5.8344G	19.015M	5.815405G	5.83442G	500k	3
18.925M	5.81545G	5.834375G	19.065M	5.81538G	5.834445G	500k	4

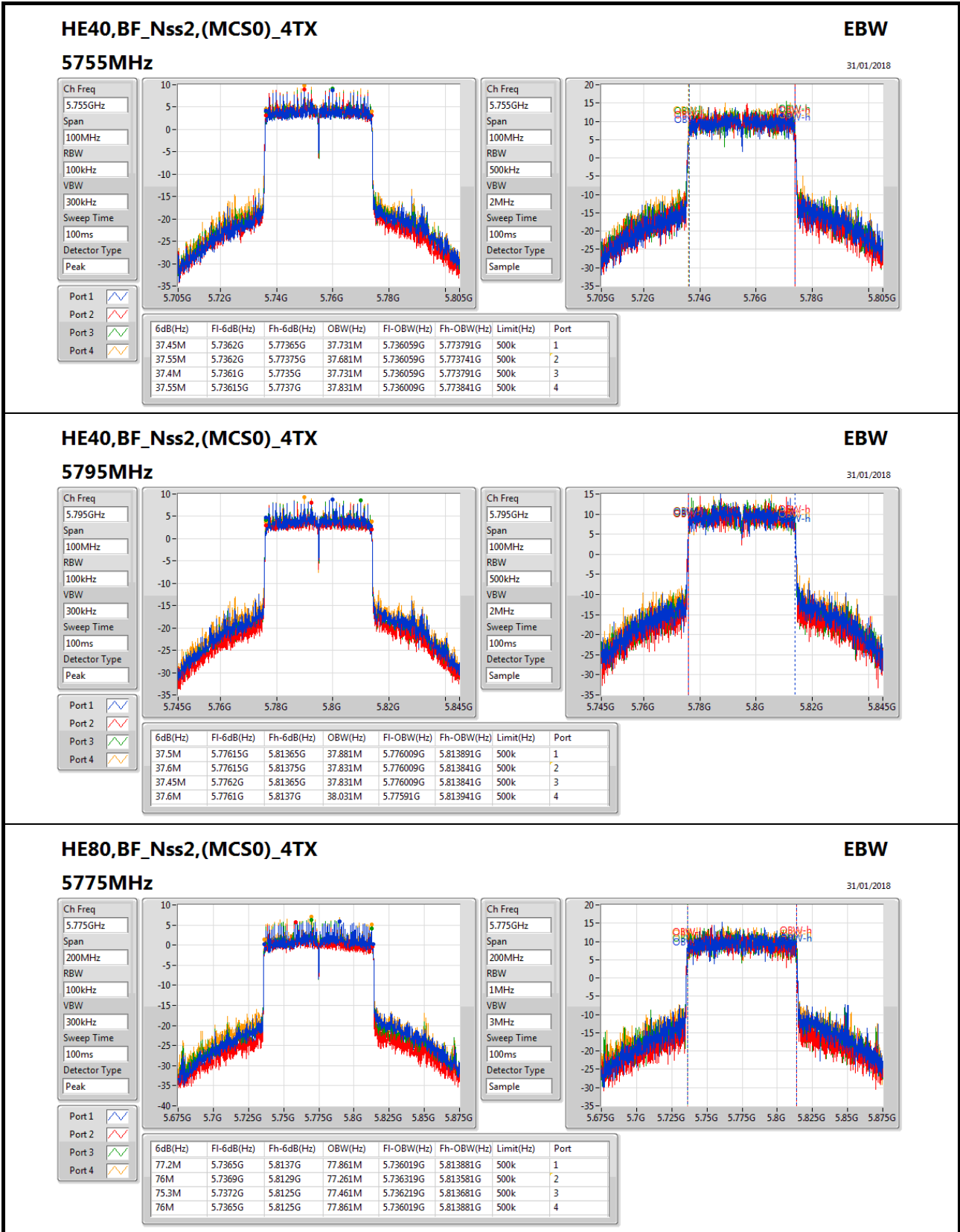










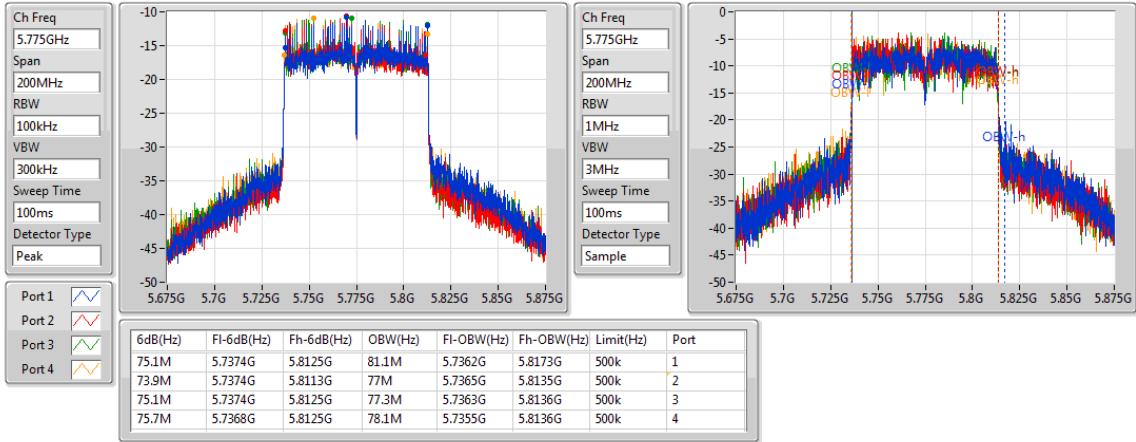


**802.11ac VHT80\_Nss4,(MCS0)\_4TX**

**EBW**

**5775MHz**

06/02/2018

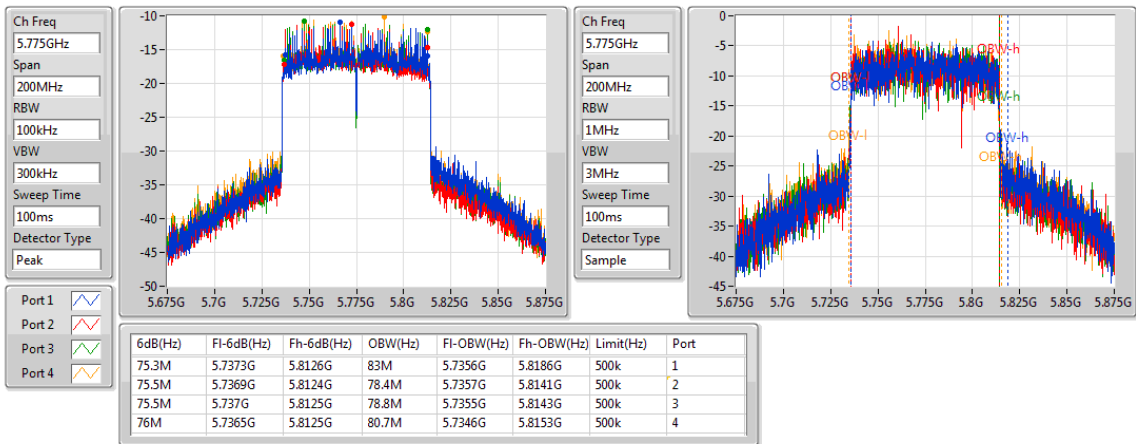


**HE80\_Nss4,(MCS0)\_4TX**

**EBW**

**5775MHz**

06/02/2018





<For Band 1>

**Summary**

Mode	Total Power (dBm)	Total Power (W)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	27.80	0.60256
802.11ac VHT20_Nss1,(MCS0)_4TX	27.85	0.60954
802.11ac VHT40_Nss1,(MCS0)_4TX	29.45	0.88105
802.11ac VHT80_Nss1,(MCS0)_4TX	25.29	0.33806
HE20_Nss1,(MCS0)_4TX	28.25	0.66834
HE40_Nss1,(MCS0)_4TX	29.21	0.83368
HE80_Nss1,(MCS0)_4TX	24.37	0.27353
802.11ac VHT80_Nss4,(MCS0)_4TX	24.90	0.30903
HE80_Nss4,(MCS0)_4TX	24.54	0.28445
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	25.86	0.38548
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	27.54	0.56754
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	23.01	0.19999
HE20,BF_Nss1,(MCS0)_4TX	26.32	0.42855
HE40,BF_Nss1,(MCS0)_4TX	27.52	0.56494
HE80,BF_Nss1,(MCS0)_4TX	23.78	0.23878



**Result**

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.30	21.06	21.87	21.95	21.96	27.75	30.00
5200MHz	Pass	2.30	21.46	21.66	21.54	22.00	27.69	30.00
5240MHz	Pass	2.30	21.74	21.95	21.47	21.94	27.80	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.30	20.45	20.63	21.19	21.65	27.03	30.00
5200MHz	Pass	2.30	21.70	21.87	21.63	22.10	27.85	30.00
5240MHz	Pass	2.30	21.83	21.86	21.54	21.96	27.82	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	2.30	19.03	19.18	19.27	19.74	25.33	30.00
5230MHz	Pass	2.30	22.69	23.71	23.84	23.39	29.45	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.30	18.89	19.07	19.32	19.75	25.29	30.00
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	2.30	20.23	20.34	20.76	21.01	26.62	30.00
5200MHz	Pass	2.30	21.91	22.14	22.05	22.76	28.25	30.00
5240MHz	Pass	2.30	22.06	22.43	21.96	22.26	28.20	30.00
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	2.30	18.79	18.96	18.99	19.45	25.08	30.00
5230MHz	Pass	2.30	23.00	23.25	22.99	23.48	29.21	30.00
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.30	17.97	18.06	18.57	18.76	24.37	30.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.30	18.87	18.91	18.84	18.89	24.90	30.00
HE80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	2.30	18.54	18.42	18.68	18.45	24.54	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	19.31	19.74	19.63	19.89	25.67	27.68
5200MHz	Pass	8.32	19.33	19.72	19.99	20.28	25.86	27.68
5240MHz	Pass	8.32	18.93	19.28	20.16	20.46	25.77	27.68
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.32	17.46	18.15	17.98	18.50	24.06	27.68
5230MHz	Pass	8.32	20.76	21.15	21.87	22.16	27.54	27.68
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5210MHz	Pass	8.32	16.56	16.94	16.87	17.53	23.01	27.68
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	19.91	20.31	20.32	20.61	26.32	27.68
5200MHz	Pass	8.32	19.64	20.10	20.31	20.54	26.18	27.68
5240MHz	Pass	8.32	18.94	19.33	20.27	20.56	25.85	27.68
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5190MHz	Pass	8.32	17.23	17.51	17.82	18.18	23.72	27.68
5230MHz	Pass	8.32	21.24	21.28	21.27	22.14	27.52	27.68
HE80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-



## Power Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
5210MHz	Pass	8.32	17.38	17.81	17.69	18.13	23.78	27.68

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



<For Band 4>

Summary

Mode	Total Power (dBm)	Total Power (W)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	29.91	0.97949
802.11ac VHT20_Nss1,(MCS0)_4TX	29.92	0.98175
802.11ac VHT40_Nss1,(MCS0)_4TX	29.87	0.97051
802.11ac VHT80_Nss1,(MCS0)_4TX	29.76	0.94624
HE20_Nss1,(MCS0)_4TX	29.98	0.99541
HE40_Nss1,(MCS0)_4TX	29.90	0.97724
HE80_Nss1,(MCS0)_4TX	29.32	0.85507
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	28.04	0.63680
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	27.88	0.61376
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	27.93	0.62087
HE20,BF_Nss1,(MCS0)_4TX	27.99	0.62951
HE40,BF_Nss1,(MCS0)_4TX	28.00	0.63096
HE80,BF_Nss1,(MCS0)_4TX	27.88	0.61376
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	29.93	0.98401
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	29.82	0.95940
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	29.82	0.95940
HE20,BF_Nss2,(MCS0)_4TX	29.87	0.97051
HE40,BF_Nss2,(MCS0)_4TX	29.91	0.97949
HE80,BF_Nss2,(MCS0)_4TX	29.88	0.97275
802.11ac VHT80_Nss4,(MCS0)_4TX	29.84	0.96382
HE80_Nss4,(MCS0)_4TX	29.77	0.94842

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	1.90	23.54	23.41	23.86	24.32	29.82	30.00
5785MHz	Pass	1.90	23.84	23.36	23.67	24.59	29.91	30.00
5825MHz	Pass	1.90	23.54	23.73	23.73	24.16	29.82	30.00
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	1.90	23.33	23.62	23.71	24.53	29.84	30.00
5785MHz	Pass	1.90	23.33	23.68	24.03	24.46	29.92	30.00
5825MHz	Pass	1.90	23.59	23.75	23.42	24.31	29.80	30.00
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	1.90	23.28	23.49	23.99	24.52	29.87	30.00
5795MHz	Pass	1.90	23.21	23.39	23.85	24.47	29.78	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	1.90	23.14	23.58	23.80	24.36	29.76	30.00
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	1.90	23.39	23.50	23.91	24.36	29.83	30.00
5785MHz	Pass	1.90	23.83	23.55	23.75	24.62	29.98	30.00
5825MHz	Pass	1.90	23.54	23.45	23.83	24.32	29.82	30.00





# AV Power Result

# Appendix C.2

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	1.90	23.33	23.54	24.05	24.51	29.90	30.00
5795MHz	Pass	1.90	23.42	23.34	24.05	24.53	29.88	30.00
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	1.90	22.93	23.08	23.32	23.83	29.32	30.00
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	21.92	21.85	22.20	22.10	28.04	28.08
5785MHz	Pass	7.92	21.80	21.69	22.06	21.98	27.91	28.08
5825MHz	Pass	7.92	21.22	21.55	22.26	22.16	27.84	28.08
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	7.92	21.81	21.85	21.91	21.68	27.83	28.08
5795MHz	Pass	7.92	21.85	21.77	21.94	21.88	27.88	28.08
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	7.92	21.52	22.08	21.91	22.12	27.93	28.08
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	21.88	22.00	22.08	21.75	27.95	28.08
5785MHz	Pass	7.92	21.80	21.75	22.03	21.90	27.89	28.08
5825MHz	Pass	7.92	21.75	21.62	22.28	22.18	27.99	28.08
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	7.92	21.98	21.99	22.10	21.85	28.00	28.08
5795MHz	Pass	7.92	21.61	21.90	21.77	22.01	27.85	28.08
HE80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	7.92	22.03	21.70	21.77	21.93	27.88	28.08
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	4.91	23.46	23.73	23.83	24.55	29.93	30.00
5785MHz	Pass	4.91	23.58	23.53	23.76	24.06	29.76	30.00
5825MHz	Pass	4.91	23.61	23.53	23.68	24.39	29.84	30.00
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	4.91	23.22	23.84	23.81	24.28	29.82	30.00
5795MHz	Pass	4.91	23.55	23.48	23.79	24.14	29.77	30.00
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	4.91	23.76	23.41	23.85	24.16	29.82	30.00
HE20,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	4.91	23.38	23.89	23.61	24.43	29.87	30.00
5785MHz	Pass	4.91	23.46	23.52	23.96	24.15	29.80	30.00
5825MHz	Pass	4.91	23.59	23.37	23.74	24.33	29.79	30.00
HE40,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	4.91	23.77	23.67	23.95	24.16	29.91	30.00
5795MHz	Pass	4.91	23.63	23.46	23.87	24.05	29.78	30.00
HE80,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	4.91	23.85	23.45	23.91	24.21	29.88	30.00
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	1.90	23.25	23.46	23.98	24.47	29.84	30.00
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	1.90	23.73	23.4	23.39	24.41	29.77	30.00

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



<For Band 1>

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.15-5.25GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	14.60	22.92
802.11ac VHT20_Nss1,(MCS0)_4TX	14.62	22.94
802.11ac VHT40_Nss1,(MCS0)_4TX	13.29	21.61
802.11ac VHT80_Nss1,(MCS0)_4TX	6.64	14.96
HE20_Nss1,(MCS0)_4TX	14.58	22.90
HE40_Nss1,(MCS0)_4TX	13.05	21.37
HE80_Nss1,(MCS0)_4TX	5.90	14.22
802.11ac VHT80_Nss4,(MCS0)_4TX	7.31	9.61
HE80_Nss4,(MCS0)_4TX	6.93	9.23
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	14.65	22.97
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	13.81	22.13
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	6.96	15.28
HE20,BF_Nss1,(MCS0)_4TX	14.59	22.91
HE40,BF_Nss1,(MCS0)_4TX	13.85	22.17
HE80,BF_Nss1,(MCS0)_4TX	7.47	15.79

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

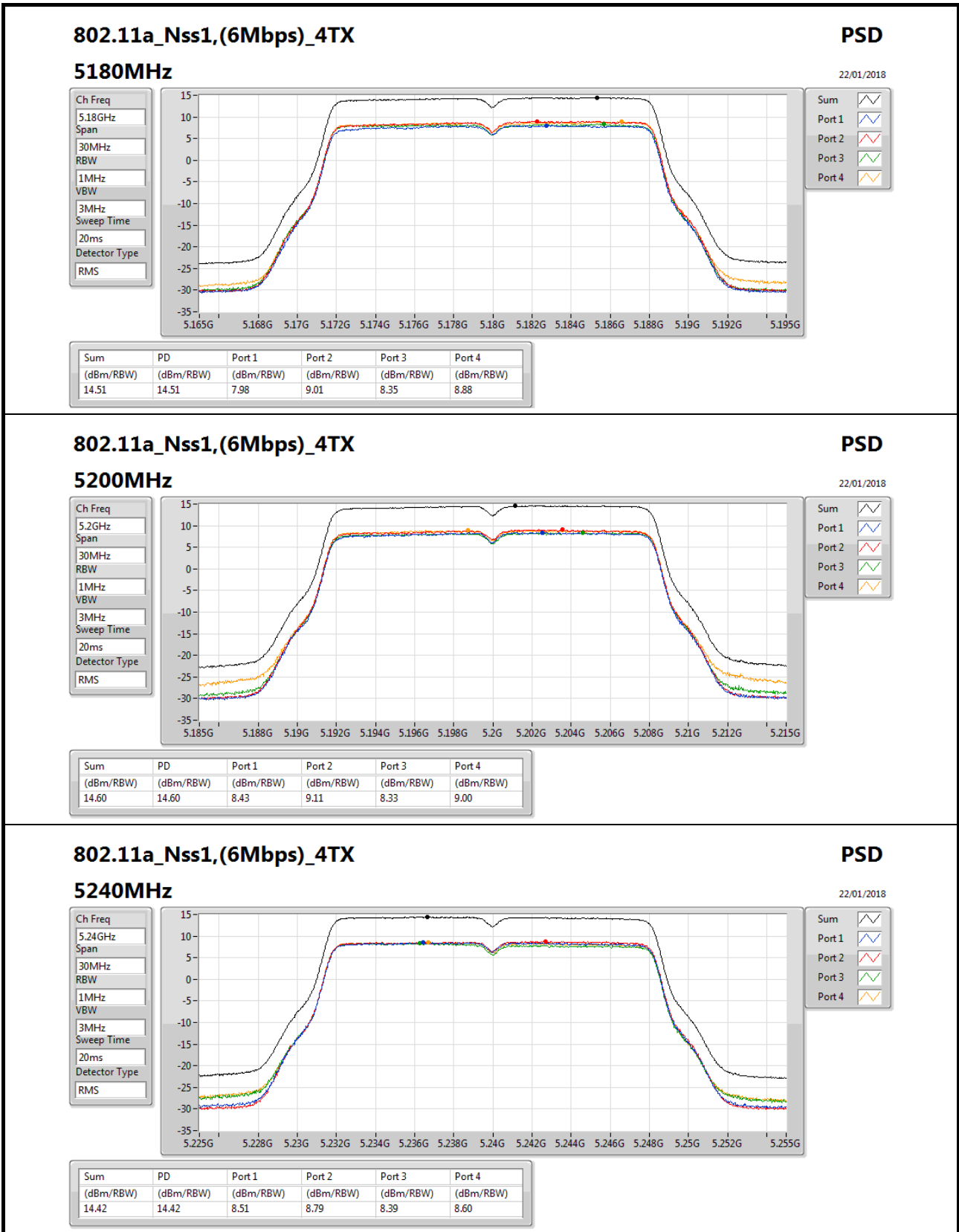
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	7.98	9.01	8.35	8.88	14.51	14.68	22.83	Inf
5200MHz	Pass	8.32	8.43	9.11	8.33	9.00	14.60	14.68	22.92	Inf
5240MHz	Pass	8.32	8.51	8.79	8.39	8.60	14.42	14.68	22.74	Inf
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	7.41	8.16	7.94	8.33	13.90	14.68	22.22	Inf
5200MHz	Pass	8.32	8.38	8.89	8.50	9.15	14.62	14.68	22.94	Inf
5240MHz	Pass	8.32	8.30	8.74	8.34	8.65	14.42	14.68	22.74	Inf
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8.32	2.89	3.50	3.41	3.74	9.34	14.68	17.66	Inf
5230MHz	Pass	8.32	7.03	7.51	7.20	7.57	13.29	14.68	21.61	Inf
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	8.32	0.41	0.77	1.01	1.49	6.64	14.68	14.96	Inf
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	6.71	7.39	7.06	7.73	13.09	14.68	21.41	Inf
5200MHz	Pass	8.32	8.25	8.73	8.56	9.02	14.58	14.68	22.90	Inf
5240MHz	Pass	8.32	8.43	8.77	8.39	8.72	14.53	14.68	22.85	Inf
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8.32	2.75	3.25	3.04	3.39	9.00	14.68	17.32	Inf
5230MHz	Pass	8.32	6.86	7.30	7.13	7.24	13.05	14.68	21.37	Inf
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	8.32	-0.30	0.07	0.12	0.52	5.90	14.68	14.22	Inf
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.30	1.16	1.87	1.65	1.84	7.31	17.00	9.61	Inf
HE80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	2.30	1.01	1.21	1.29	1.23	6.93	17.00	9.23	Inf
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	8.37	8.35	8.91	8.51	14.47	14.68	22.79	Inf
5200MHz	Pass	8.32	8.21	8.50	8.85	8.74	14.52	14.68	22.84	Inf
5240MHz	Pass	8.32	7.93	8.60	8.97	9.28	14.65	14.68	22.97	Inf
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8.32	3.52	4.29	4.42	4.35	10.07	14.68	18.39	Inf
5230MHz	Pass	8.32	7.16	7.90	8.20	8.18	13.81	14.68	22.13	Inf
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5210MHz	Pass	8.32	0.76	1.14	1.38	1.59	6.96	14.68	15.28	Inf
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5180MHz	Pass	8.32	8.60	8.58	8.99	8.73	14.59	14.68	22.91	Inf
5200MHz	Pass	8.32	8.25	8.54	8.91	8.98	14.59	14.68	22.91	Inf
5240MHz	Pass	8.32	7.60	8.39	8.85	9.20	14.44	14.68	22.76	Inf
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
5190MHz	Pass	8.32	3.39	3.93	4.05	4.30	9.86	14.68	18.18	Inf
5230MHz	Pass	8.32	7.33	8.01	8.10	8.33	13.85	14.68	22.17	Inf
HE80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-

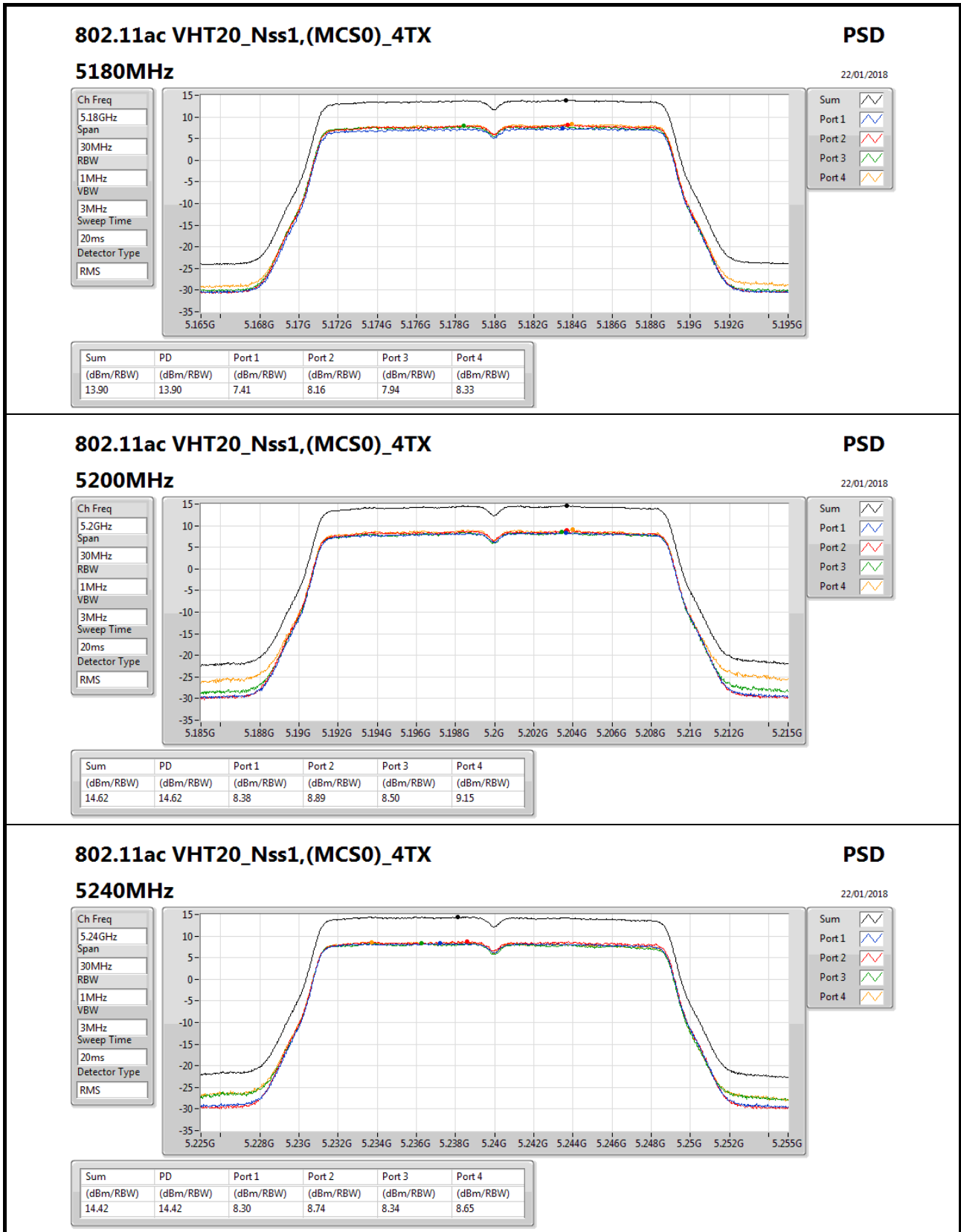


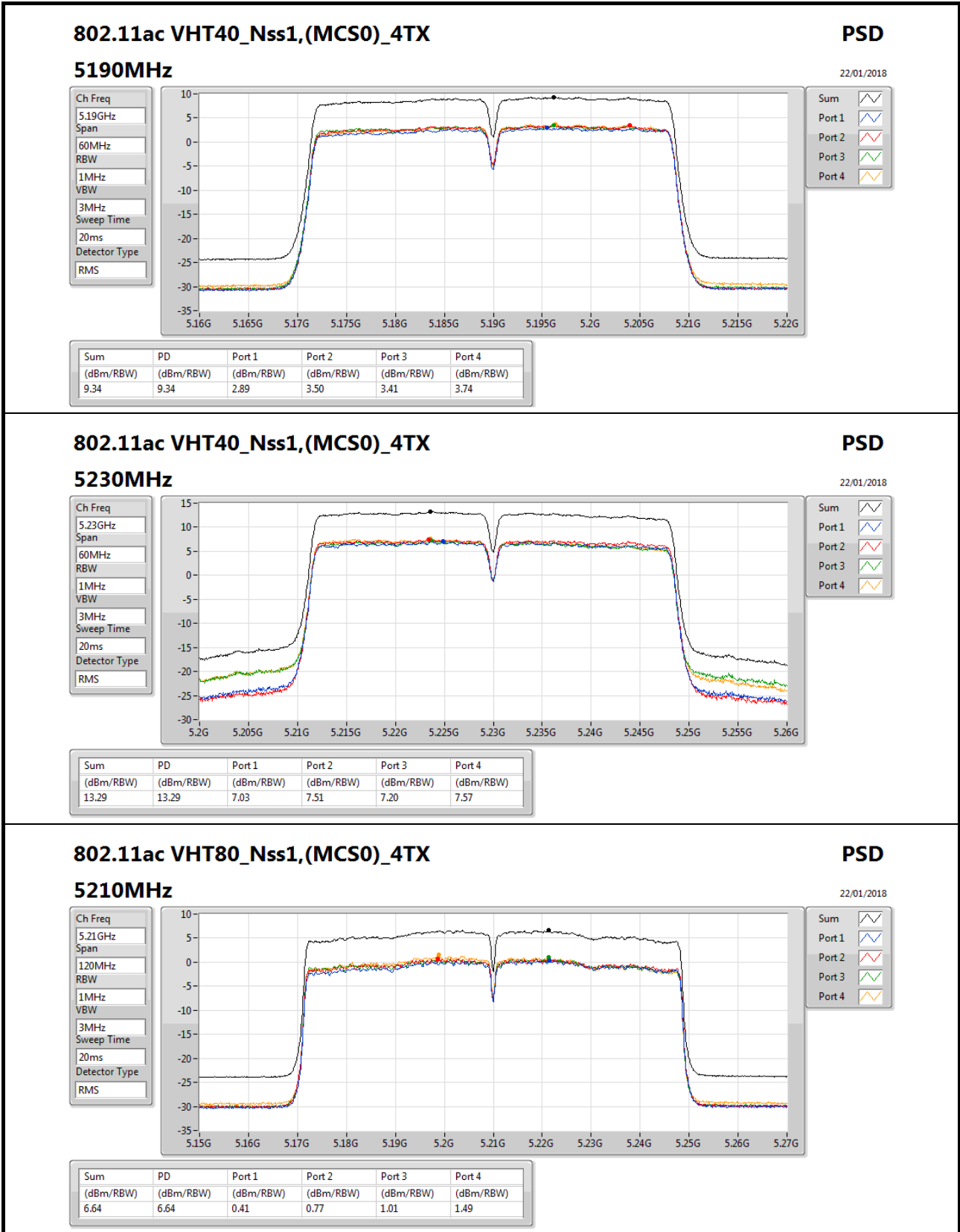
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)	EIRP PD (dBm/RBW)	EIRP PD Limit (dBm/RBW)
5210MHz	Pass	8.32	1.35	1.63	1.68	2.07	7.47	14.68	15.79	Inf

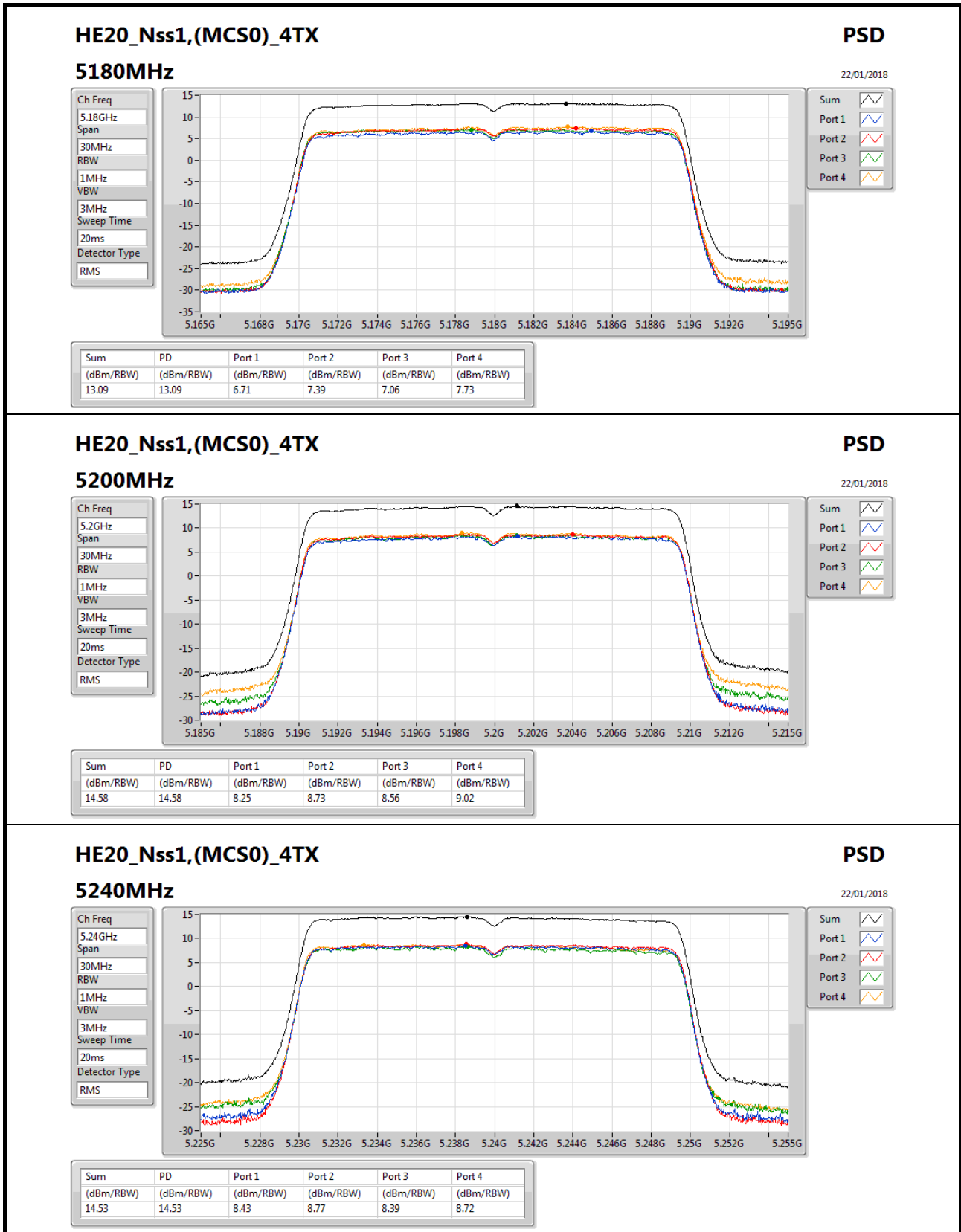
**DG** = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

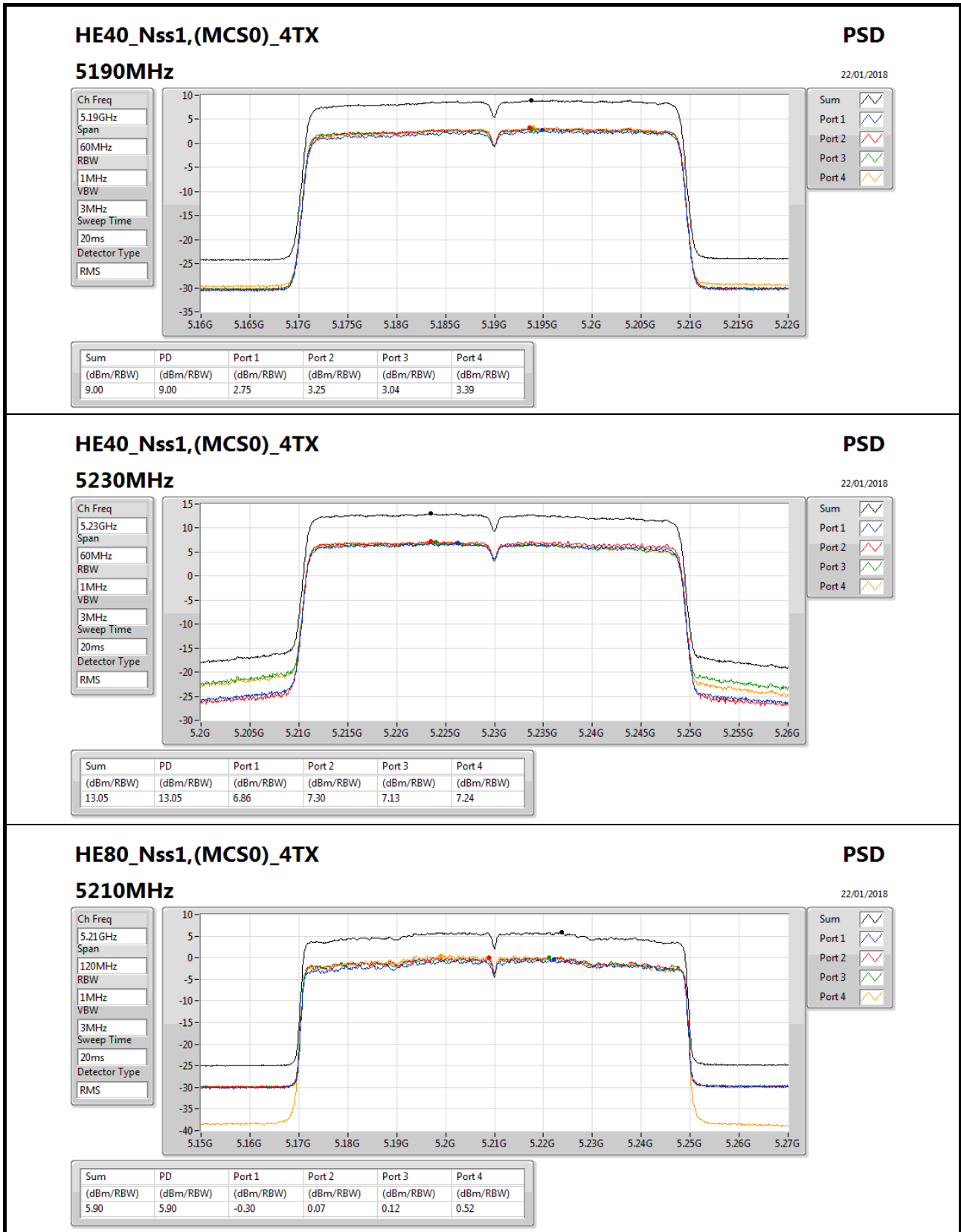


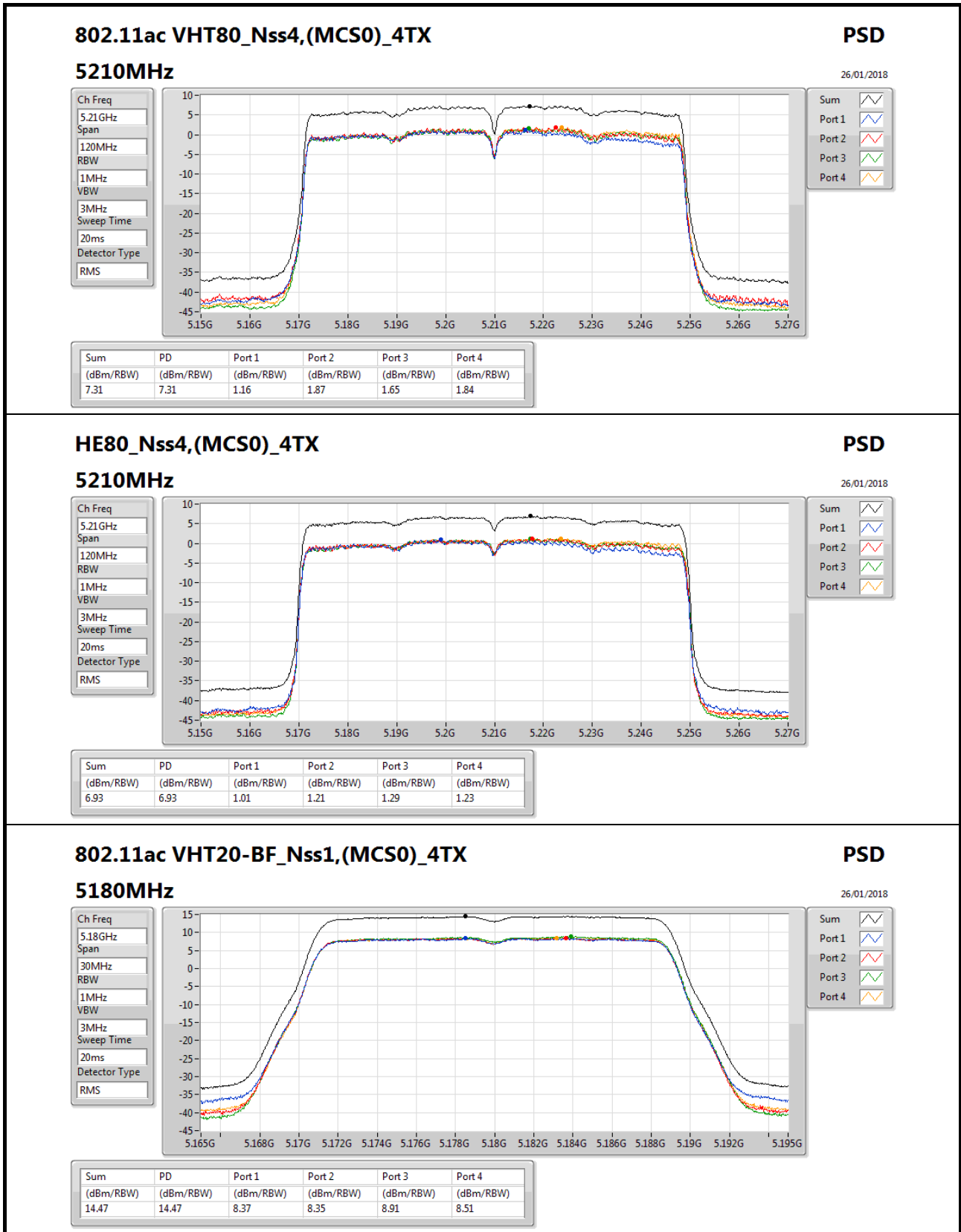


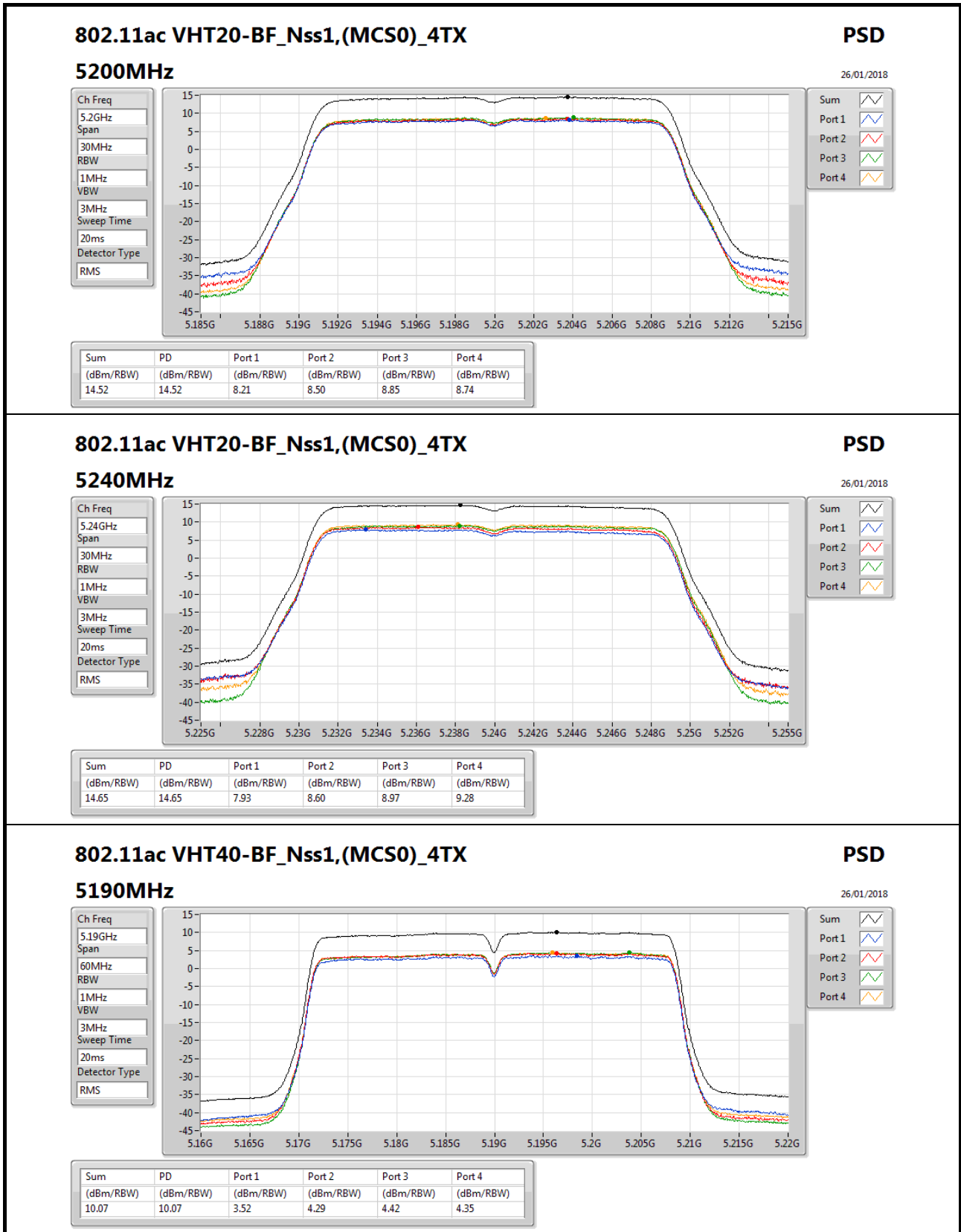


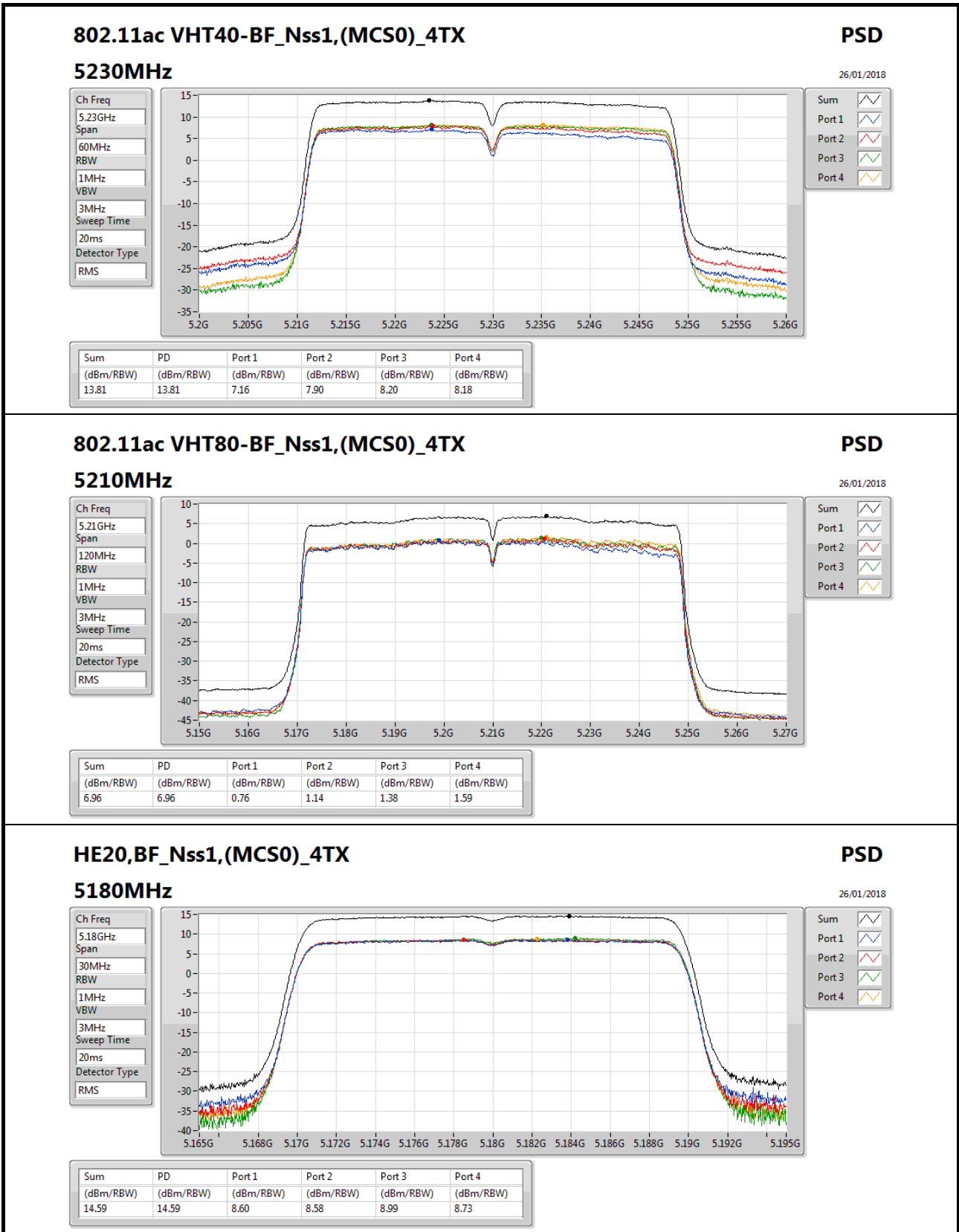


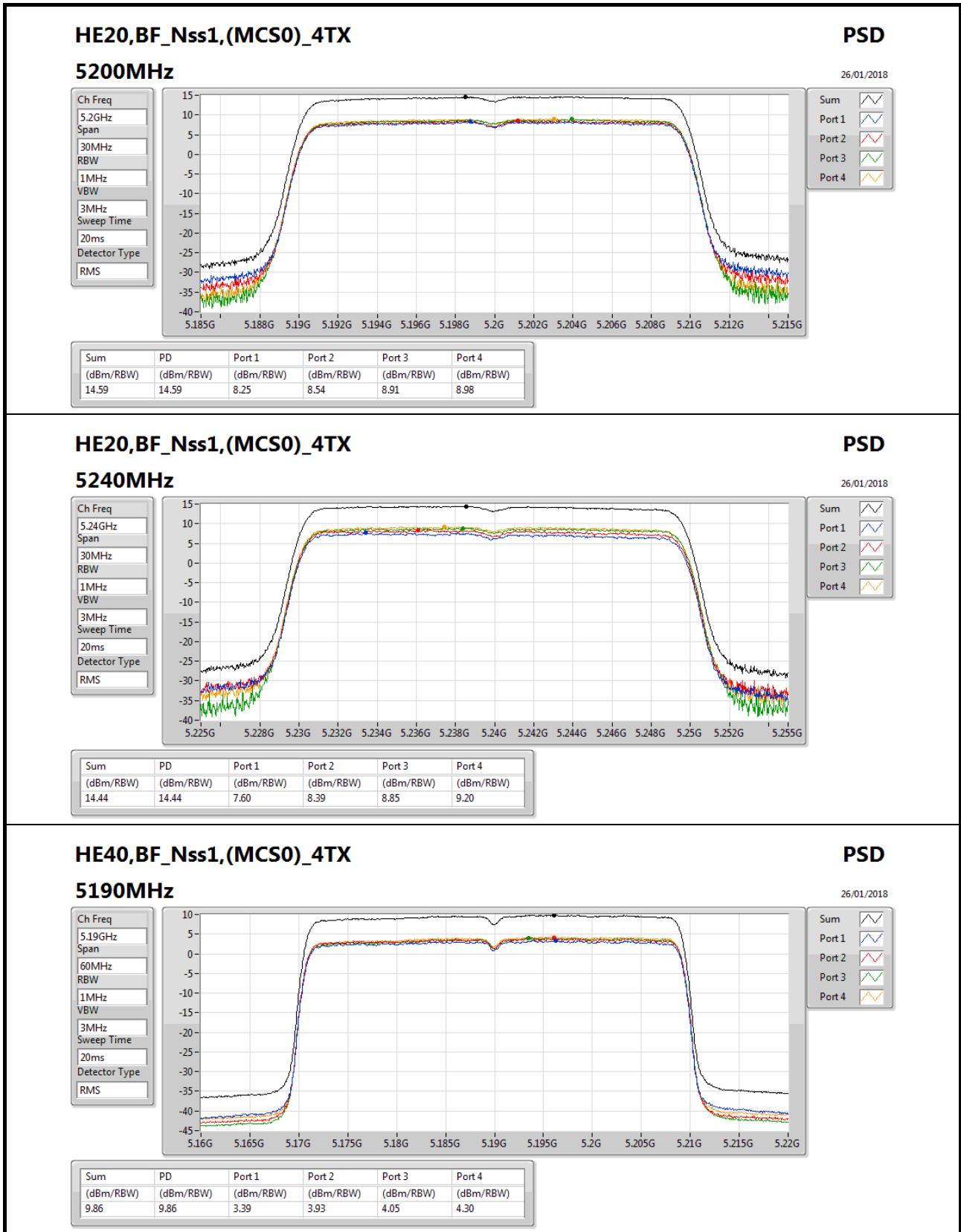


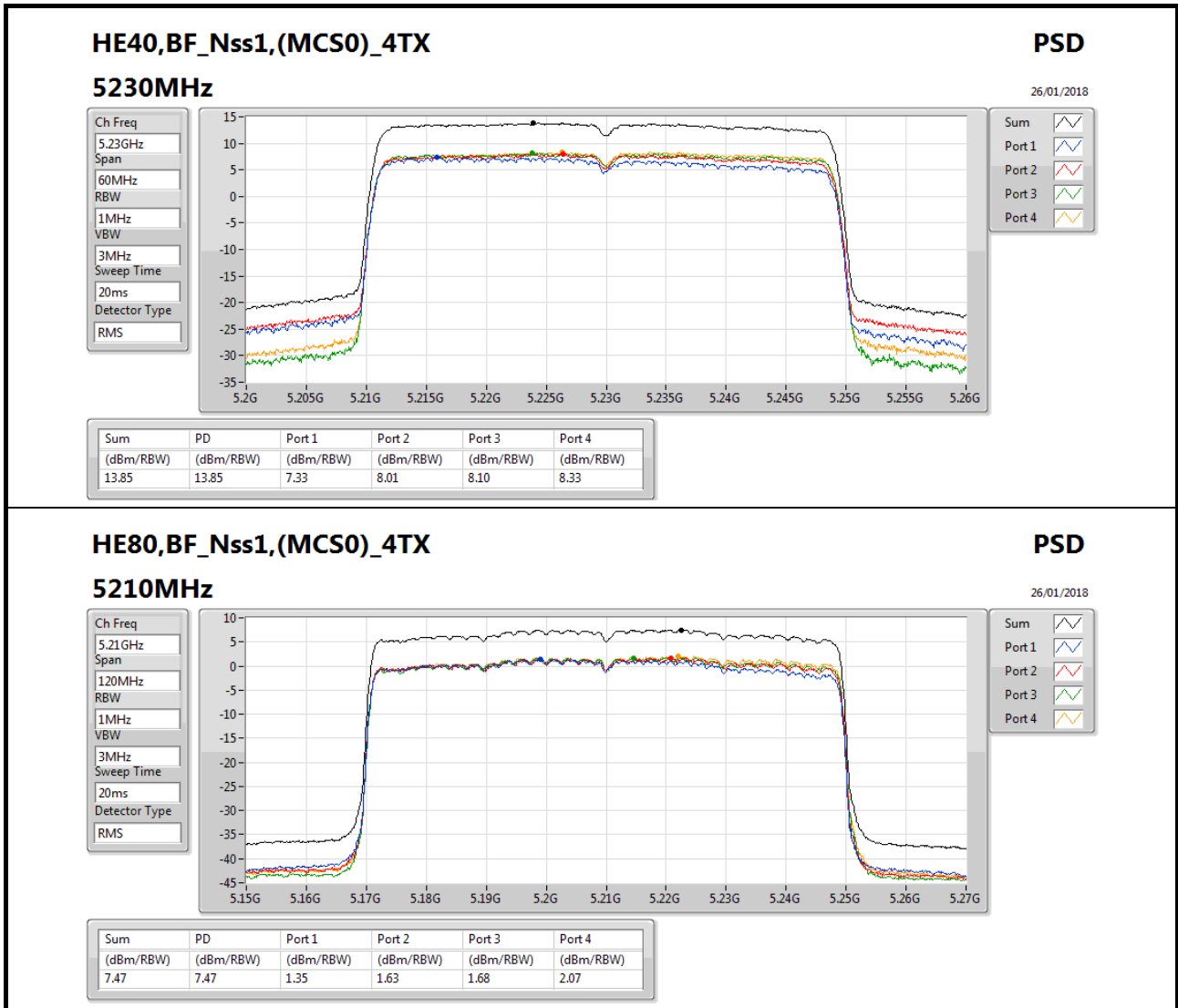














<For Band 4>

Summary

Mode	PD (dBm/RBW)	EIRP PD (dBm/RBW)
5.725-5.85GHz	-	-
802.11a_Nss1,(6Mbps)_4TX	15.71	23.63
802.11ac VHT20_Nss1,(MCS0)_4TX	15.54	23.46
802.11ac VHT40_Nss1,(MCS0)_4TX	12.44	20.36
802.11ac VHT80_Nss1,(MCS0)_4TX	9.59	17.51
HE20_Nss1,(MCS0)_4TX	15.57	23.49
HE40_Nss1,(MCS0)_4TX	12.54	20.46
HE80_Nss1,(MCS0)_4TX	9.58	17.50
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	14.12	22.04
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	11.12	19.04
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	7.82	15.74
HE20,BF_Nss1,(MCS0)_4TX	14.09	22.01
HE40,BF_Nss1,(MCS0)_4TX	11.10	19.02
HE80,BF_Nss1,(MCS0)_4TX	8.06	15.98
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	14.53	19.44
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	11.83	16.74
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	8.91	13.82
HE20,BF_Nss2,(MCS0)_4TX	14.72	19.63
HE40,BF_Nss2,(MCS0)_4TX	11.90	16.81
HE80,BF_Nss2,(MCS0)_4TX	9.18	14.09
802.11ac VHT80_Nss4,(MCS0)_4TX	9.00	10.90
HE80_Nss4,(MCS0)_4TX	8.92	10.82

RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;



Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11a_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	9.20	9.92	9.51	9.65	15.51	28.08
5785MHz	Pass	7.92	9.68	10.21	9.82	9.65	15.71	28.08
5825MHz	Pass	7.92	9.25	10.07	9.57	9.59	15.53	28.08
802.11ac VHT20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	9.28	9.99	9.48	9.61	15.52	28.08
5785MHz	Pass	7.92	9.39	9.89	9.67	9.44	15.54	28.08
5825MHz	Pass	7.92	9.19	9.99	9.69	9.60	15.52	28.08
802.11ac VHT40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	7.92	6.35	6.77	6.49	6.32	12.44	28.08
5795MHz	Pass	7.92	6.21	6.37	6.60	6.29	12.27	28.08
802.11ac VHT80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	7.92	3.42	3.68	3.68	3.85	9.59	28.08
HE20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	9.18	9.92	9.60	9.59	15.50	28.08
5785MHz	Pass	7.92	9.48	9.99	9.69	9.55	15.57	28.08
5825MHz	Pass	7.92	9.03	10.00	9.67	9.59	15.54	28.08
HE40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	7.92	6.40	6.64	6.70	6.58	12.54	28.08
5795MHz	Pass	7.92	6.25	6.29	6.48	6.11	12.21	28.08
HE80_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	7.92	3.49	3.69	3.70	3.69	9.58	28.08
802.11ac VHT20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	8.12	8.40	8.09	8.35	14.12	28.08
5785MHz	Pass	7.92	7.83	7.85	7.95	7.91	13.82	28.08
5825MHz	Pass	7.92	7.70	8.17	8.01	8.28	13.95	28.08
802.11ac VHT40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	7.92	5.15	5.45	5.09	5.31	11.12	28.08
5795MHz	Pass	7.92	4.89	5.00	5.24	4.92	10.95	28.08
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	7.92	1.91	1.70	1.79	2.14	7.82	28.08
HE20,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	7.92	7.97	8.28	7.99	8.39	14.09	28.08
5785MHz	Pass	7.92	7.97	8.06	8.02	8.14	13.95	28.08
5825MHz	Pass	7.92	7.84	8.12	7.98	8.16	13.96	28.08
HE40,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	7.92	5.18	5.22	5.40	5.18	11.10	28.08
5795MHz	Pass	7.92	4.94	5.01	5.20	4.75	10.81	28.08
HE80,BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	7.92	2.12	1.86	2.06	2.42	8.06	28.08
802.11ac VHT20-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	4.91	8.41	8.69	8.47	8.81	14.53	30.00
5785MHz	Pass	4.91	8.30	8.34	8.42	8.30	14.27	30.00
5825MHz	Pass	4.91	7.98	8.35	8.32	8.46	14.17	30.00

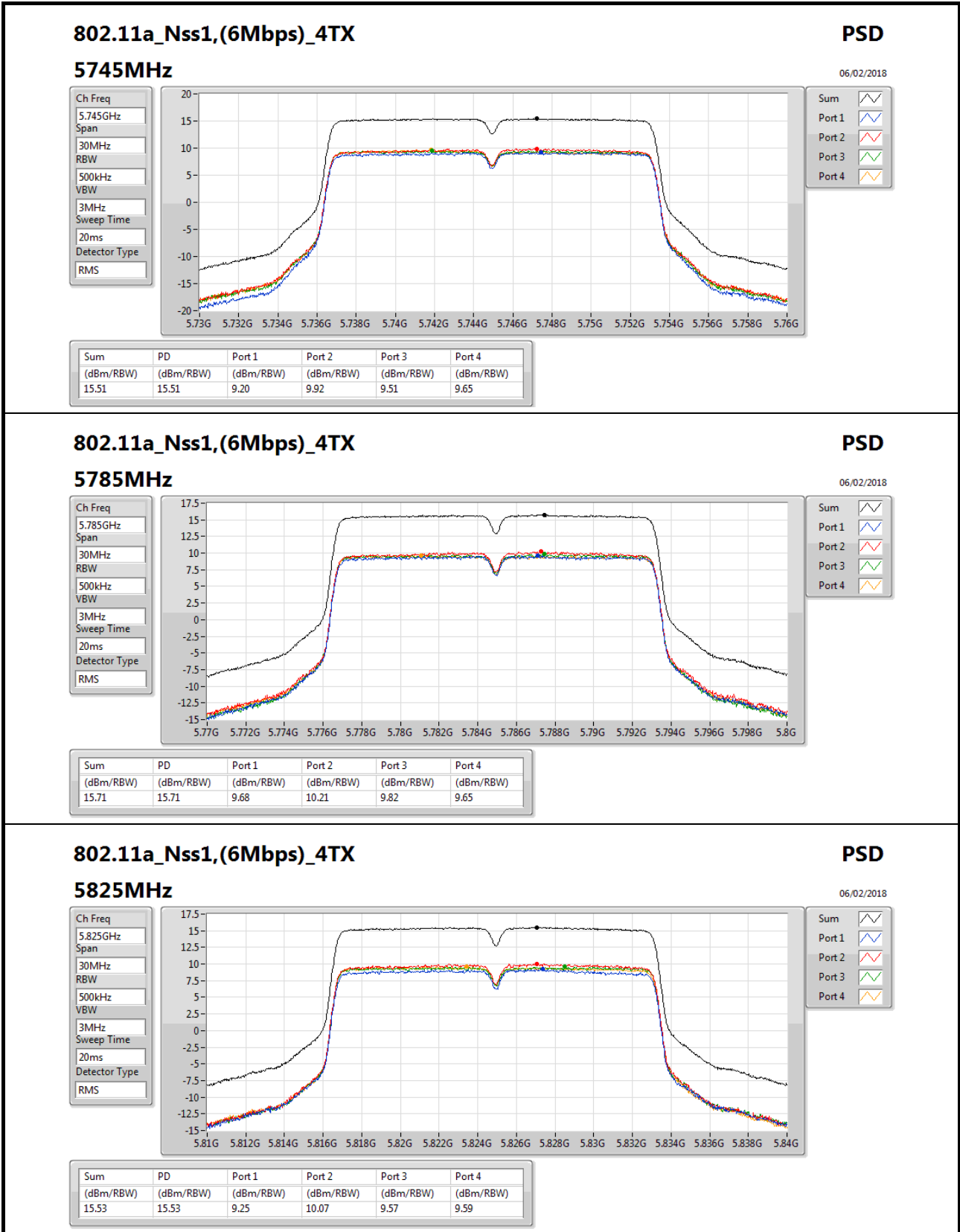


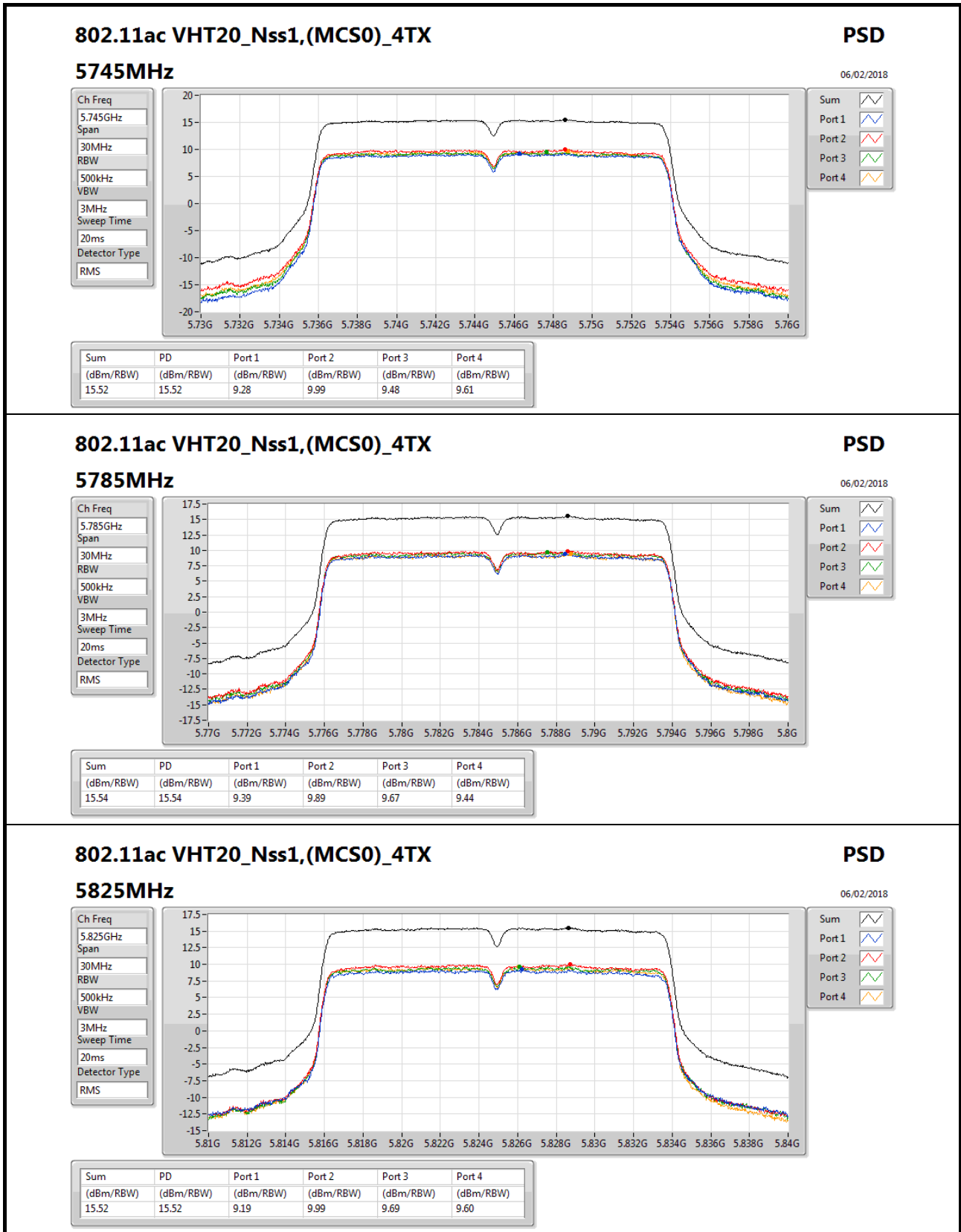


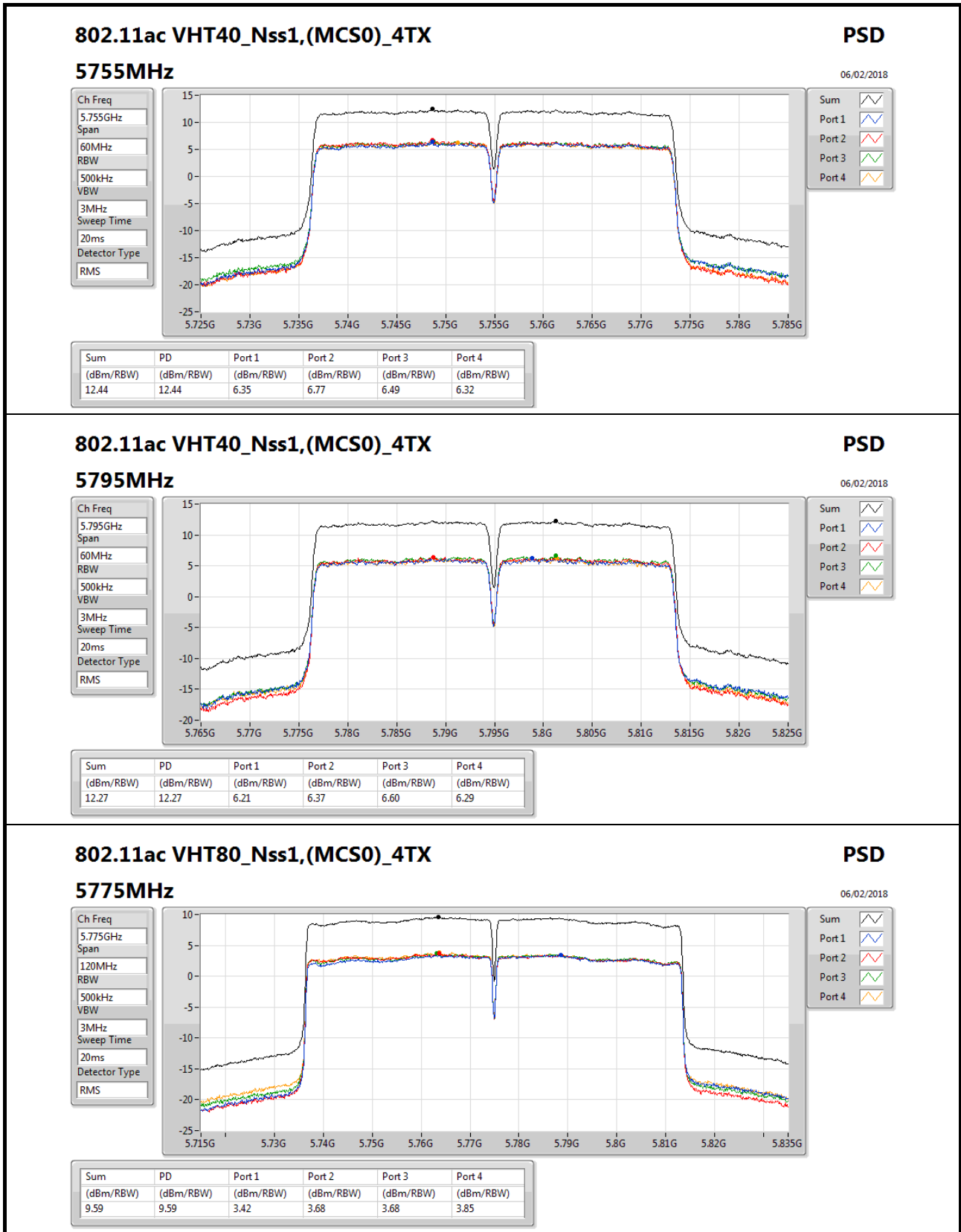
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ac VHT40-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	4.91	5.66	6.23	5.80	5.78	11.83	30.00
5795MHz	Pass	4.91	5.50	5.72	5.69	5.68	11.50	30.00
802.11ac VHT80-BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	4.91	2.99	2.92	3.11	3.08	8.91	30.00
HE20,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5745MHz	Pass	4.91	8.60	8.97	8.77	9.00	14.72	30.00
5785MHz	Pass	4.91	8.34	8.65	8.59	8.51	14.47	30.00
5825MHz	Pass	4.91	8.11	8.70	8.58	8.58	14.43	30.00
HE40,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5755MHz	Pass	4.91	5.79	6.17	5.93	6.00	11.90	30.00
5795MHz	Pass	4.91	5.67	5.96	5.78	5.67	11.65	30.00
HE80,BF_Nss2,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	4.91	3.22	3.06	3.24	3.28	9.18	30.00
802.11ac VHT80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	1.90	2.97	2.94	3.18	3.15	9.00	30.00
HE80_Nss4,(MCS0)_4TX	-	-	-	-	-	-	-	-
5775MHz	Pass	1.90	3.07	2.73	3.23	2.91	8.92	30.00

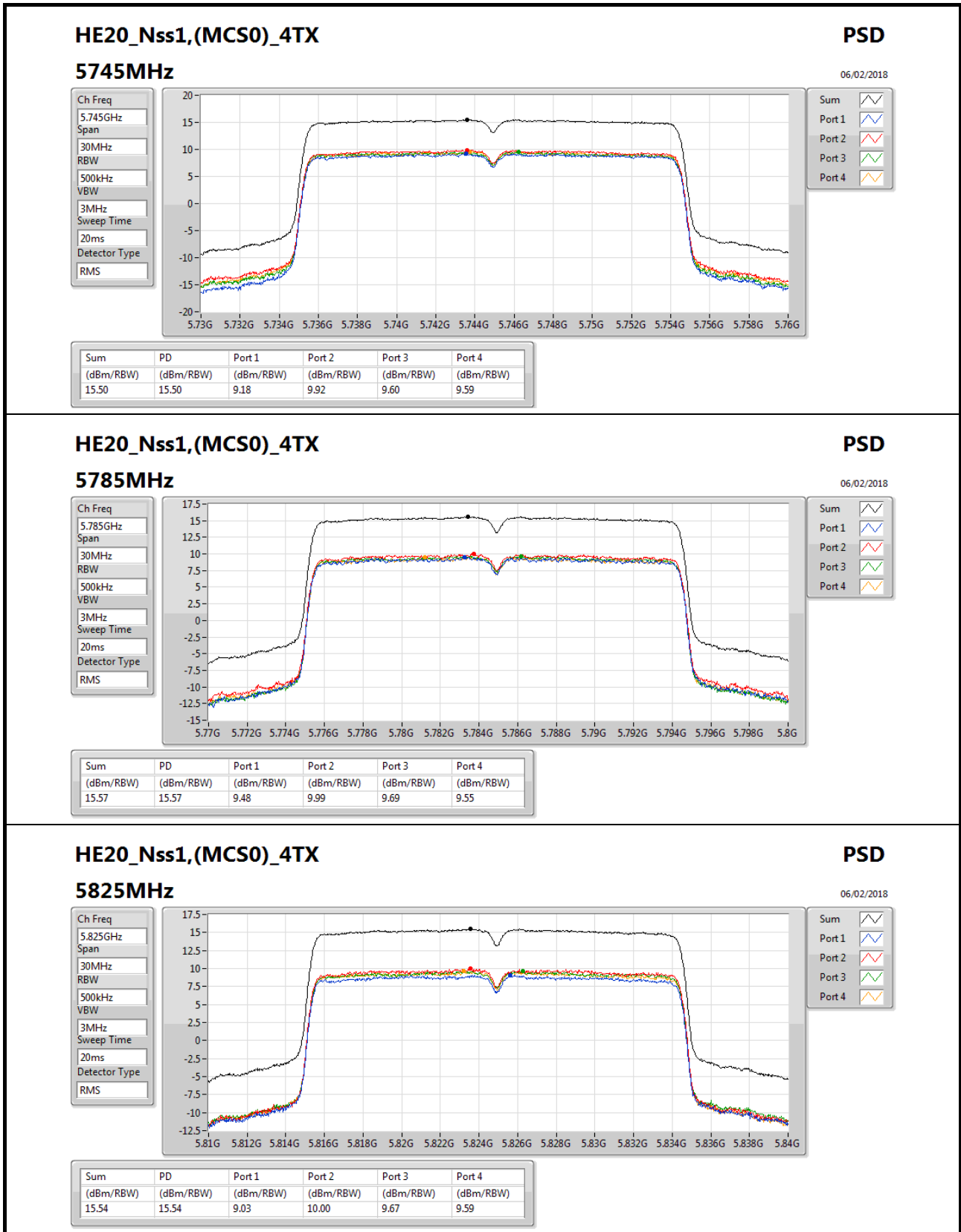
DG = Directional Gain; RBW = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

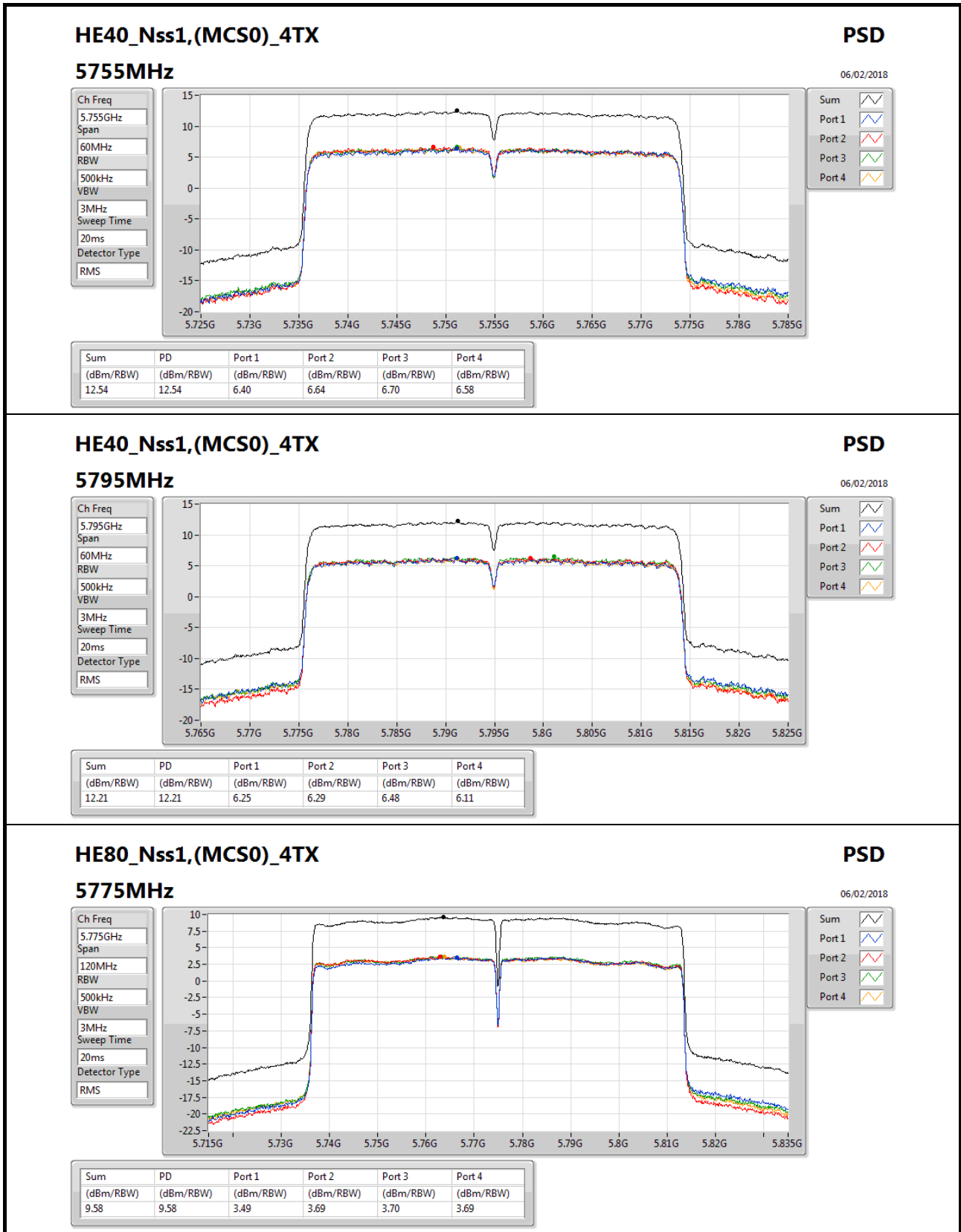
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;

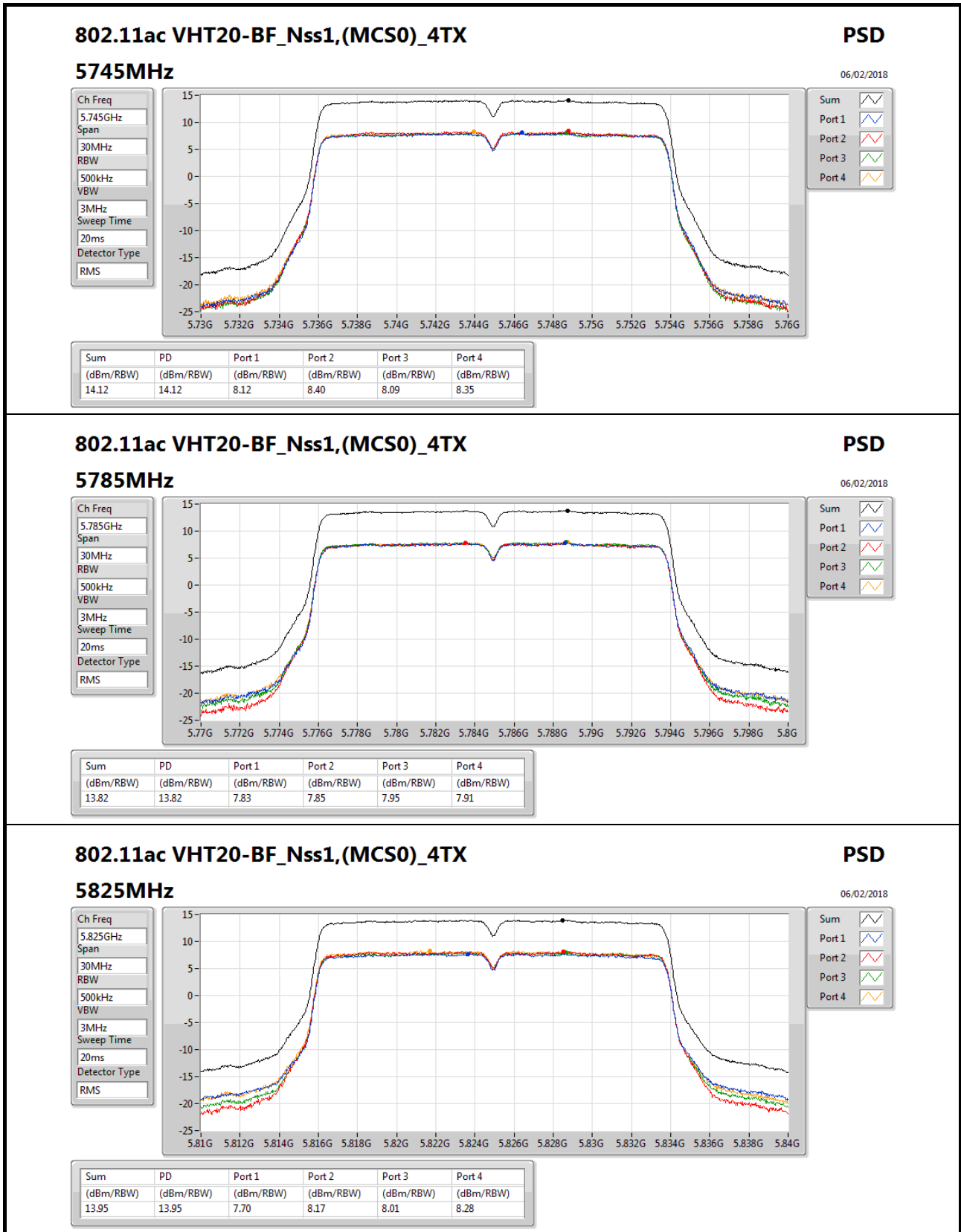


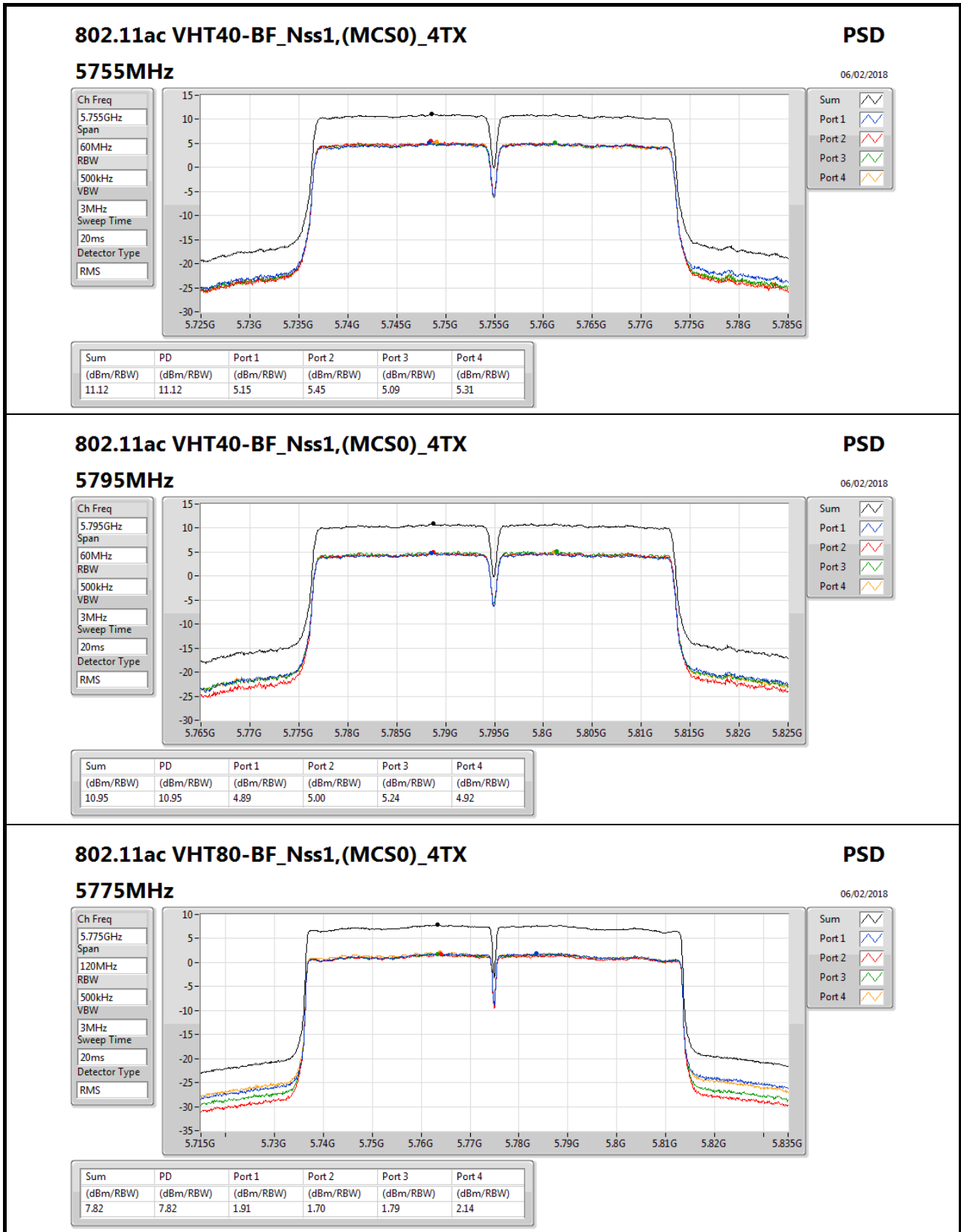




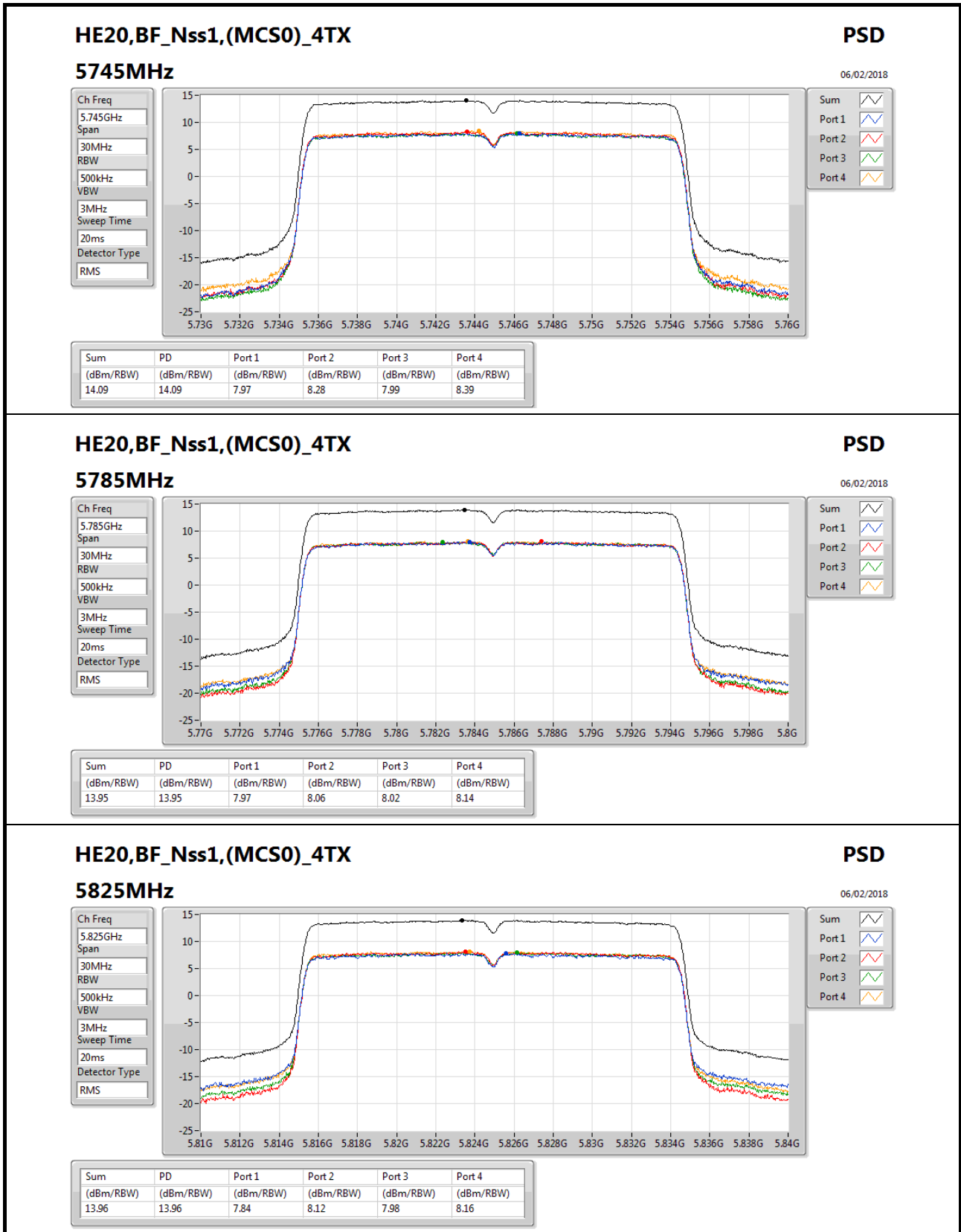


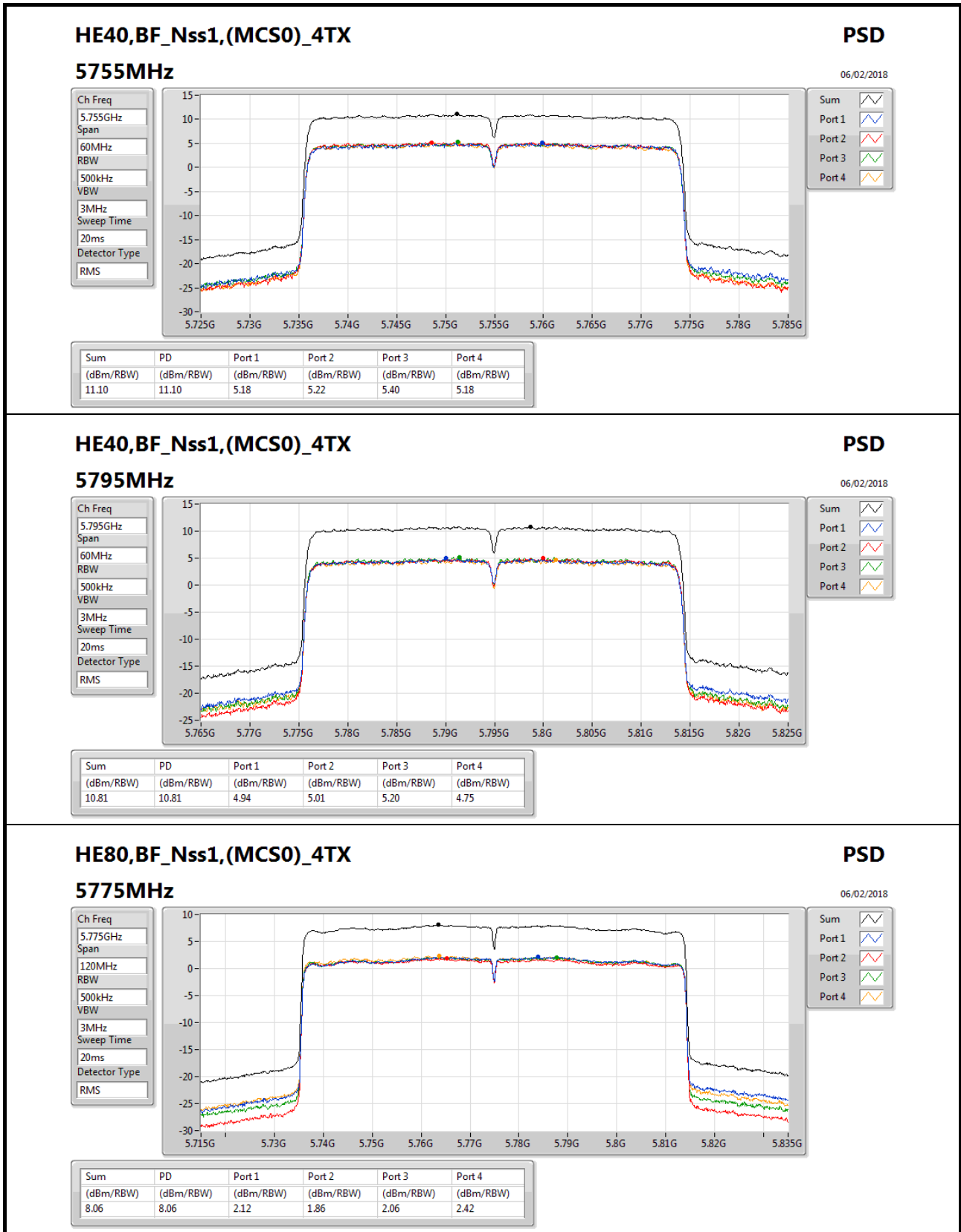


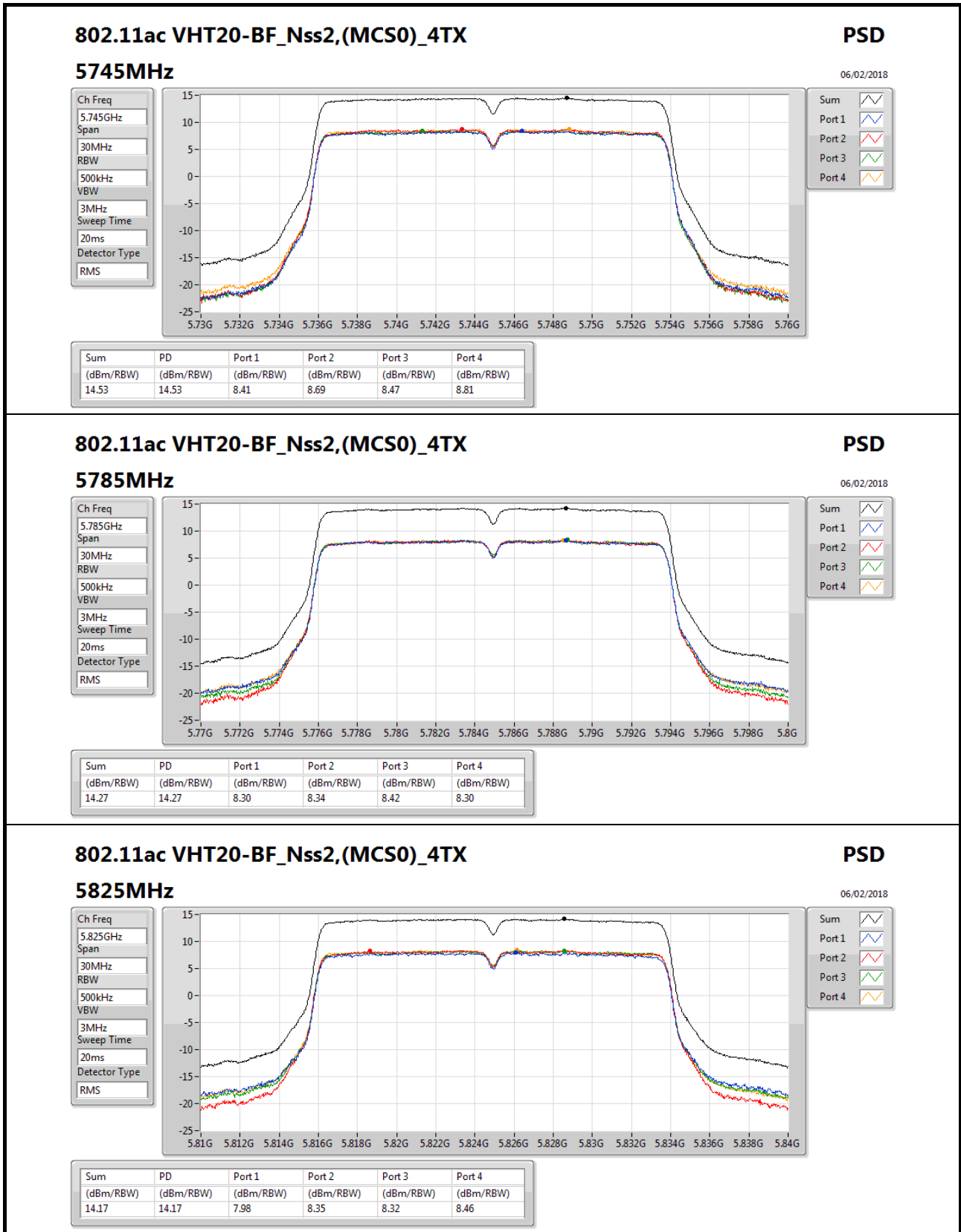


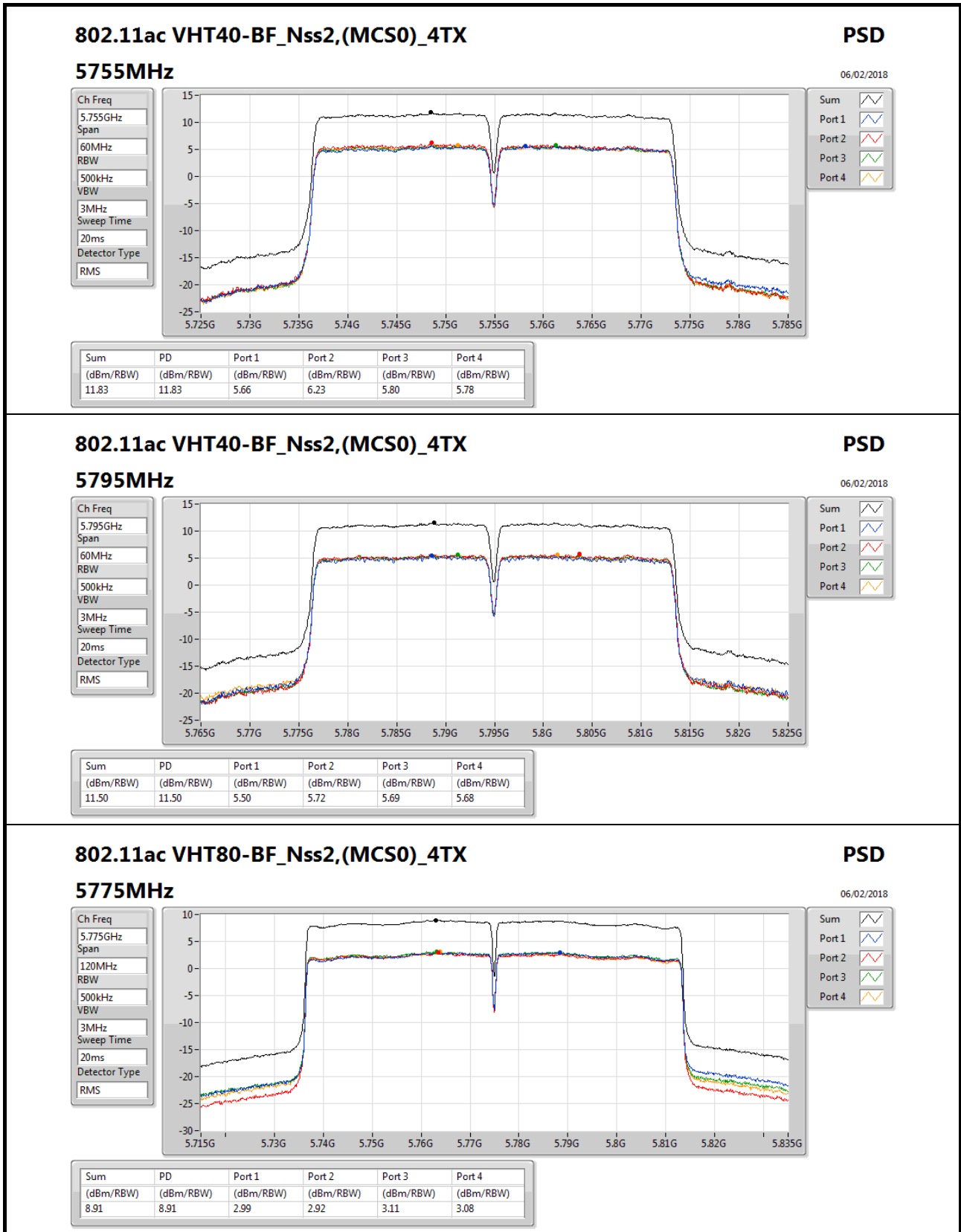


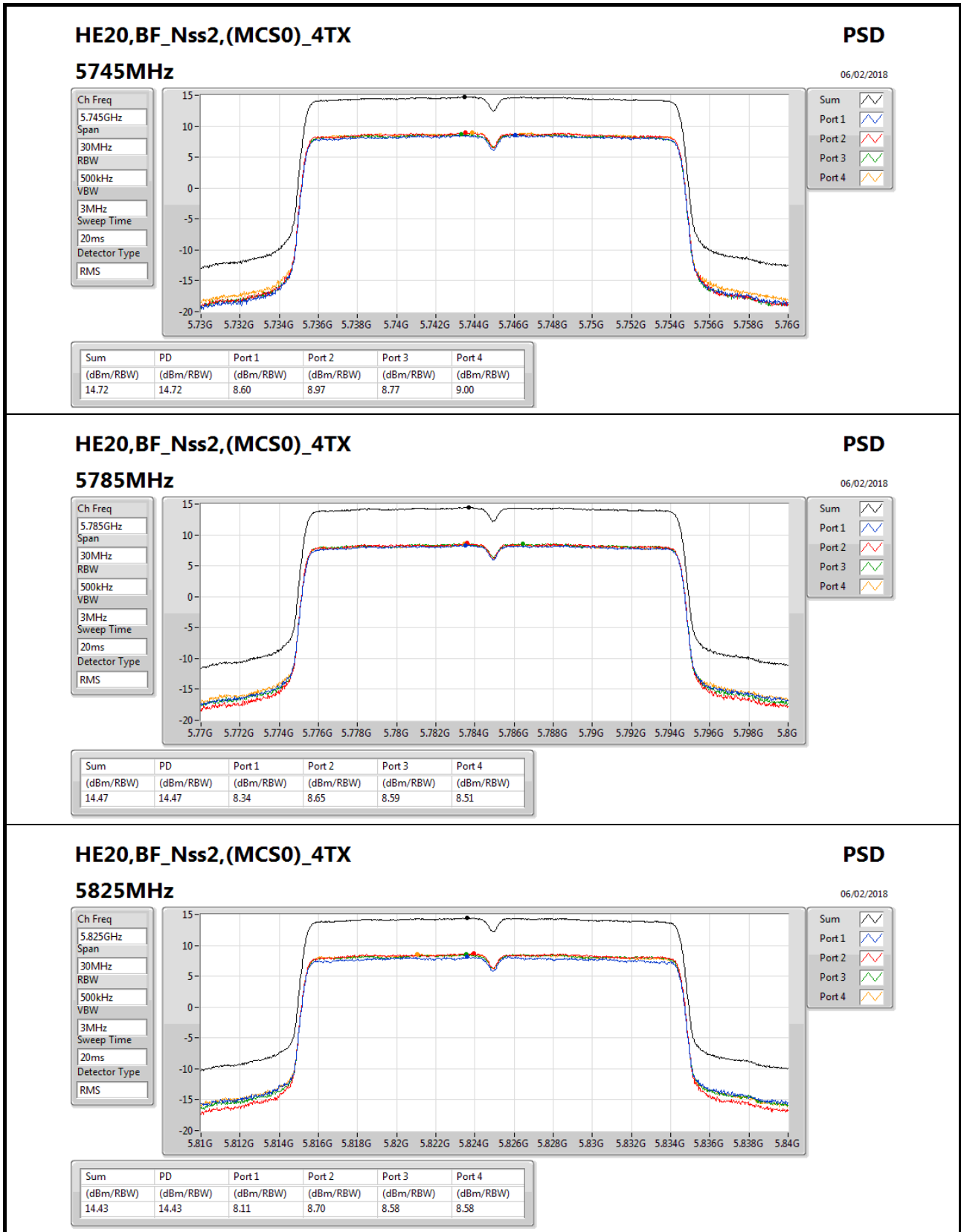


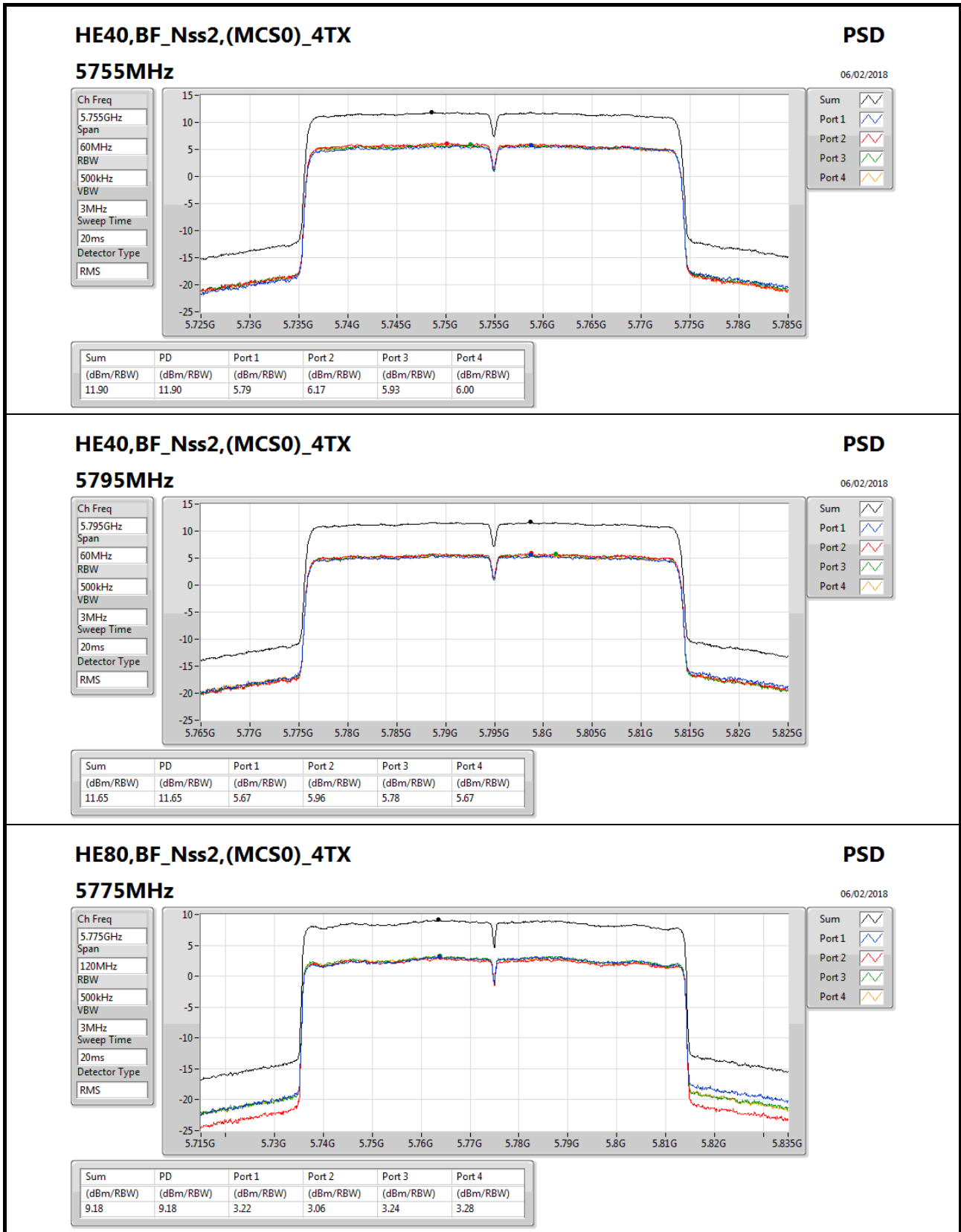


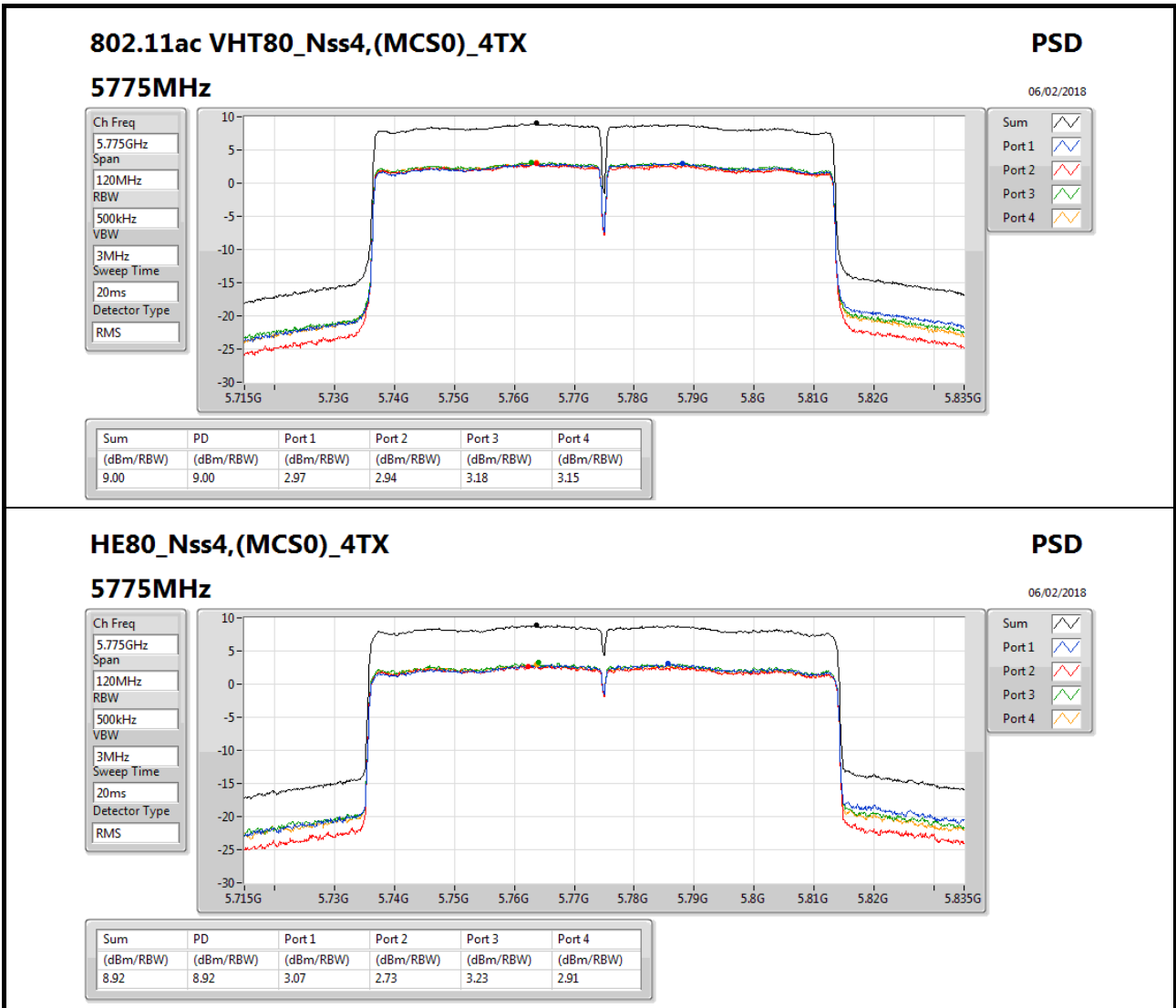








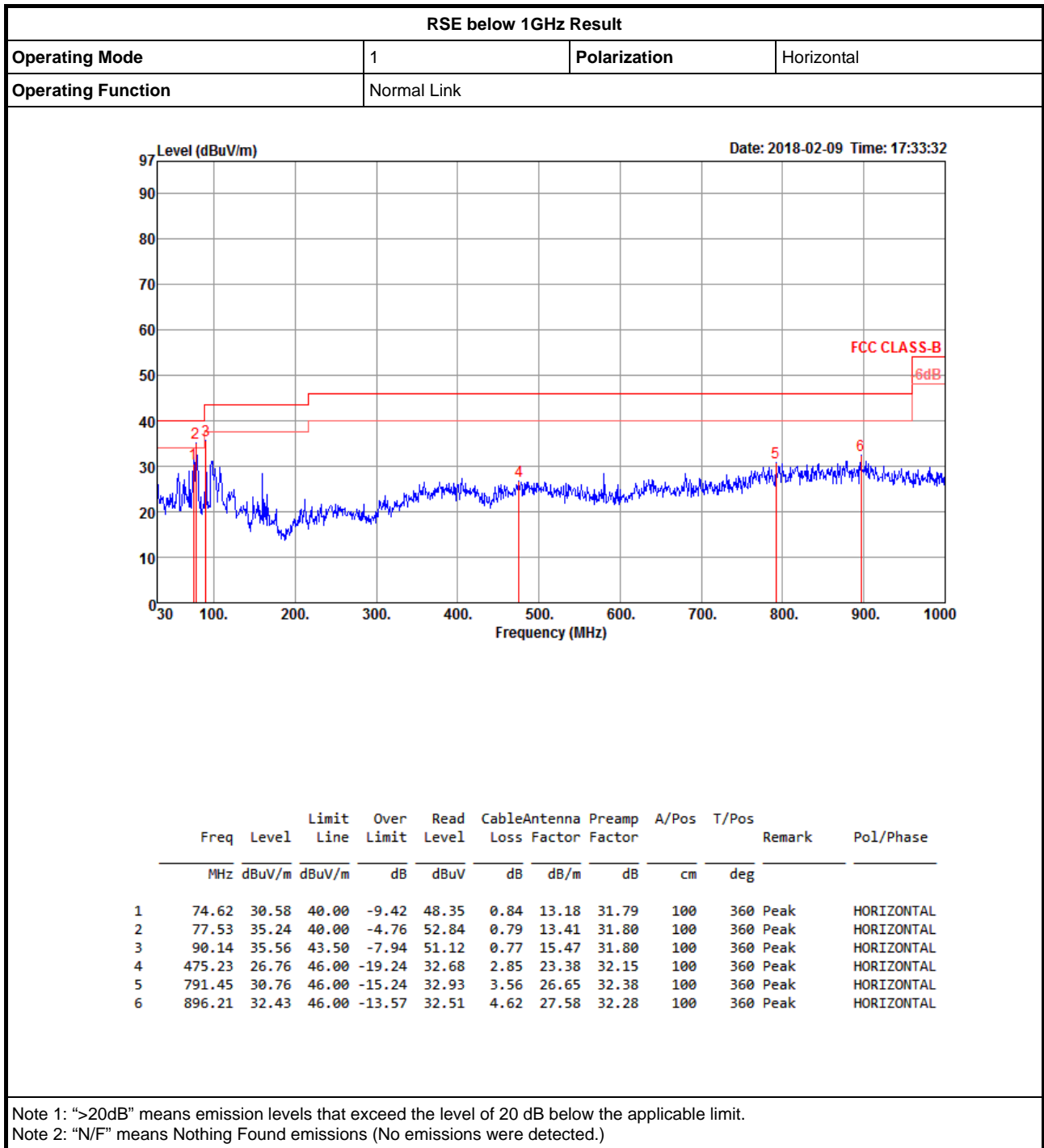






# RSE below 1GHz Result

Appendix E.1

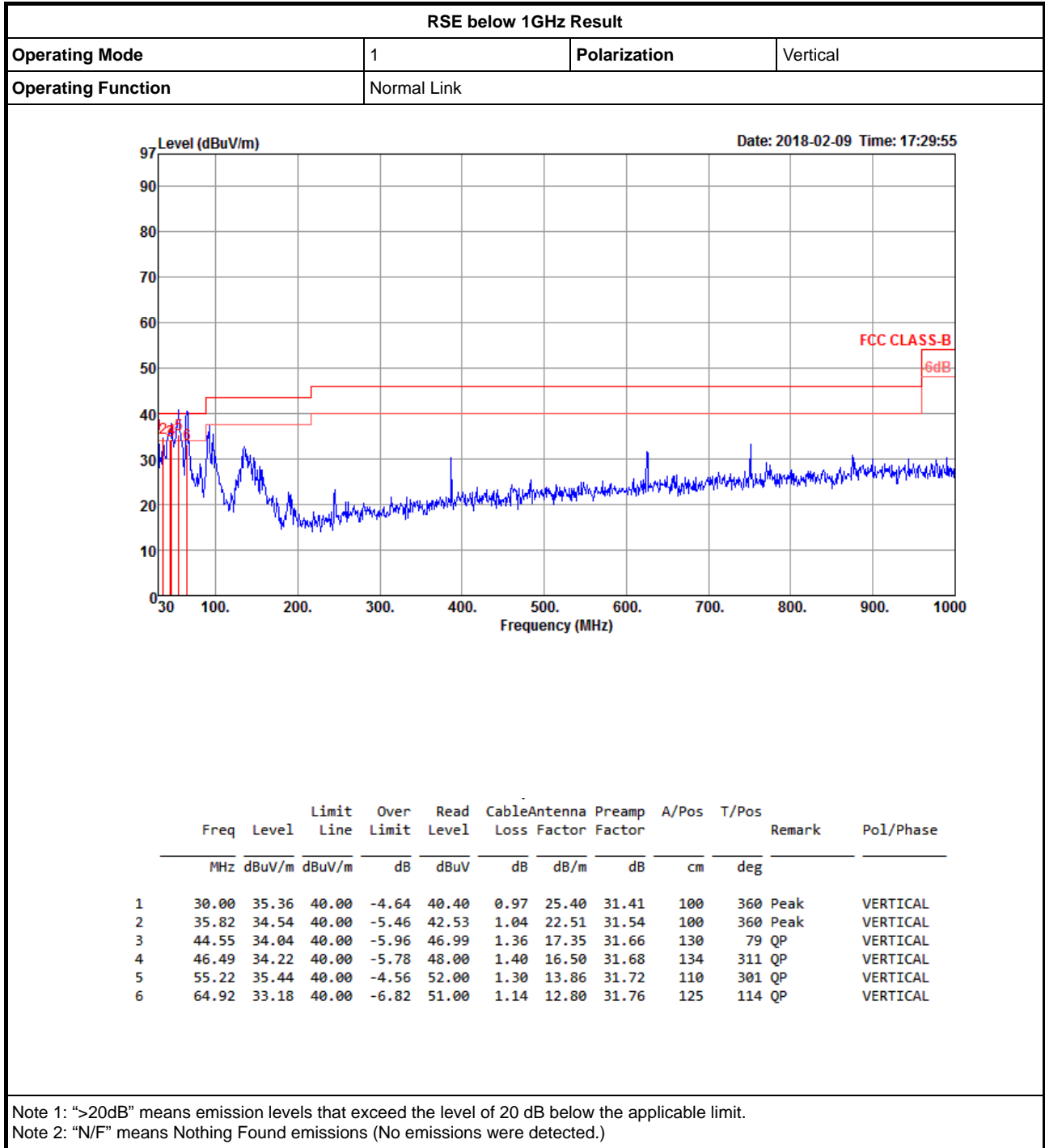






# RSE below 1GHz Result

Appendix E.1





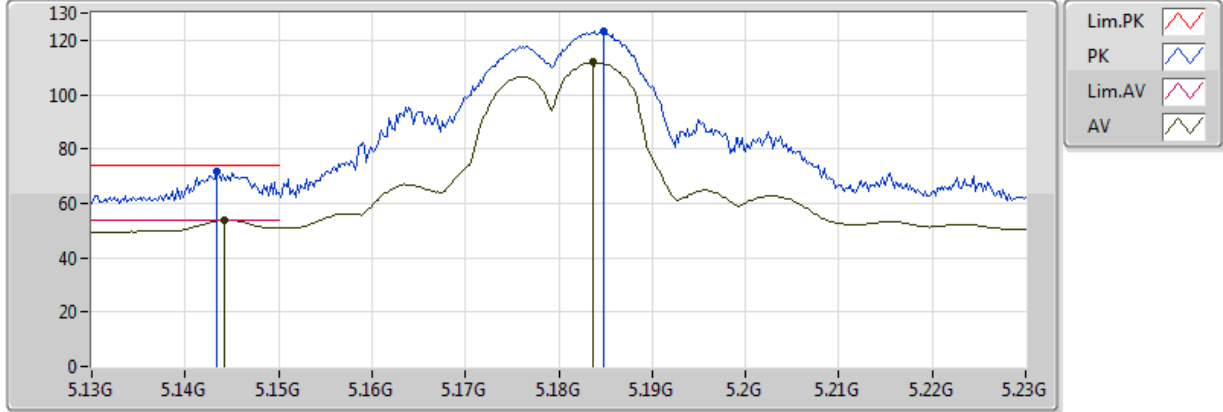
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
5.15-5.25GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ac VHT80-BF_Nss1,(MCS0)_4TX	Pass	AV	5.149995G	53.99	54.00	-0.01	9.90	3	Vertical	57	2.31	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TX

20/01/2018



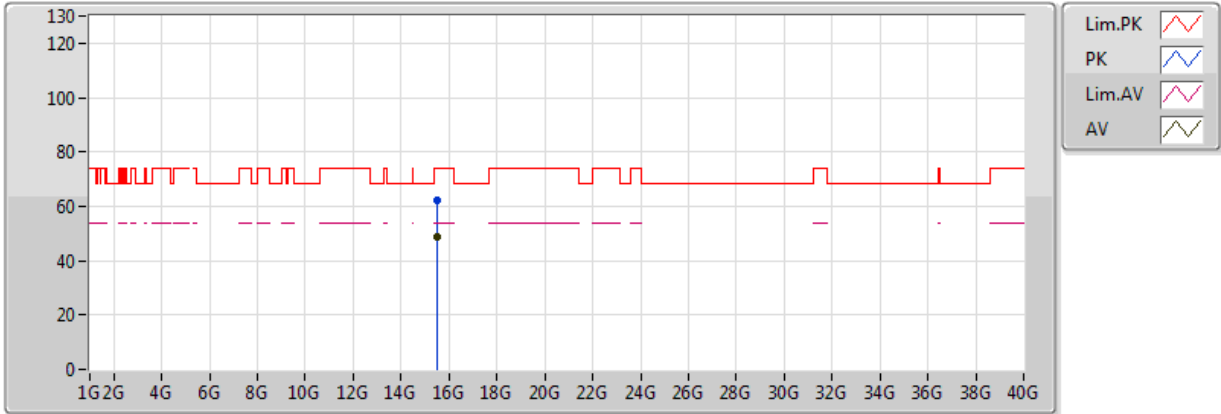
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 84  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1442G	53.86	54.00	-0.14	7.42	3	Vertical	261	2.14	-
AV	5.1836G	111.90	Inf	-Inf	7.48	3	Vertical	261	2.14	-
PK	5.1434G	71.59	74.00	-2.41	7.42	3	Vertical	261	2.14	-
PK	5.1848G	123.31	Inf	-Inf	7.49	3	Vertical	261	2.14	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TX

20/01/2018



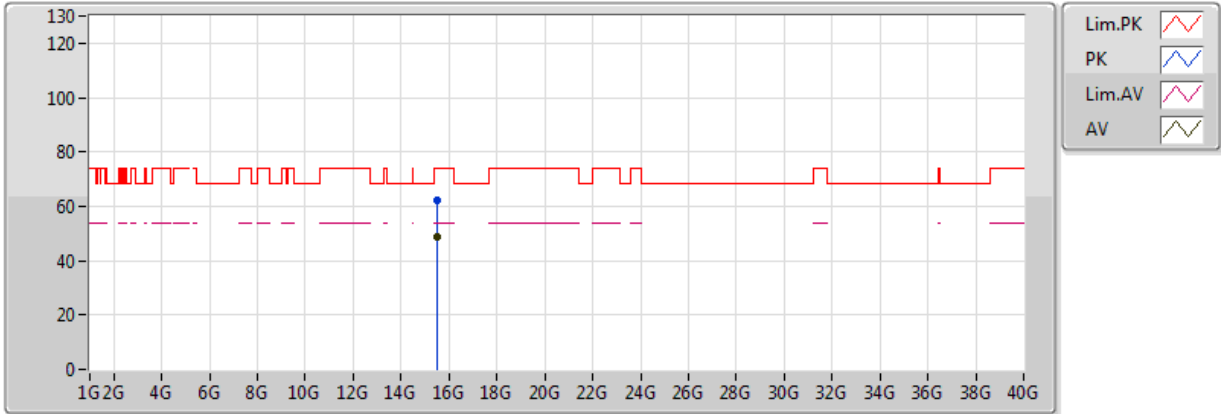
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.52722G	48.66	54.00	-5.34	18.68	3	Vertical	34	1.50	-
PK	15.52512G	62.23	74.00	-11.77	18.68	3	Vertical	34	1.50	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5180MHz\_TX

20/01/2018



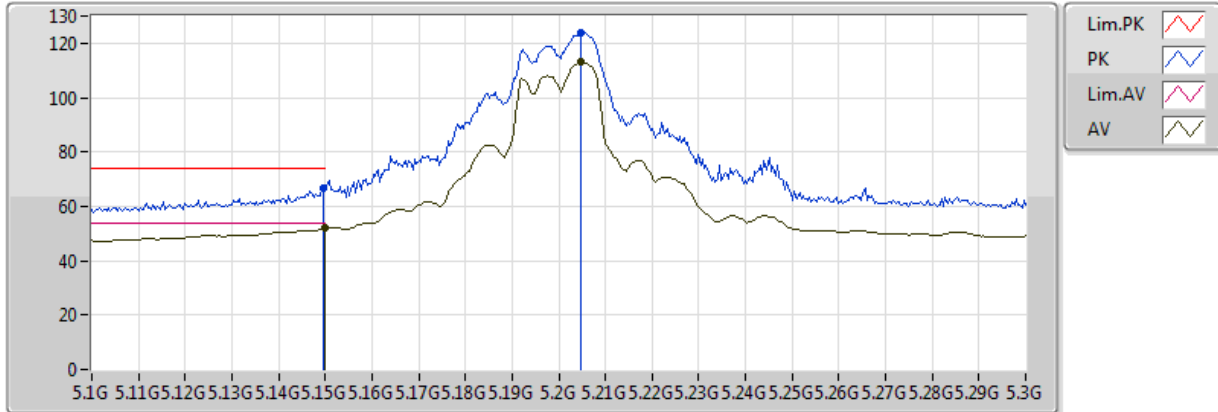
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.525G	48.68	54.00	-5.32	18.68	3	Horizontal	267	1.50	-
PK	15.52632G	62.36	74.00	-11.64	18.68	3	Horizontal	267	1.50	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TX

20/01/2018



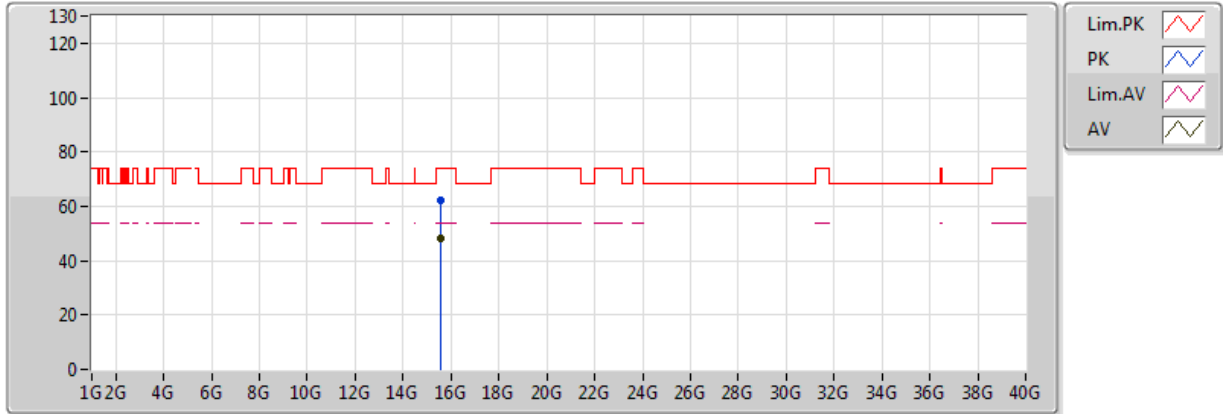
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	51.93	54.00	-2.07	7.43	3	Vertical	210	1.91	-
AV	5.2048G	113.03	Inf	-Inf	7.52	3	Vertical	210	1.91	-
PK	5.1496G	66.66	74.00	-7.34	7.43	3	Vertical	210	1.91	-
PK	5.2048G	123.80	Inf	-Inf	7.52	3	Vertical	210	1.91	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TX

20/01/2018



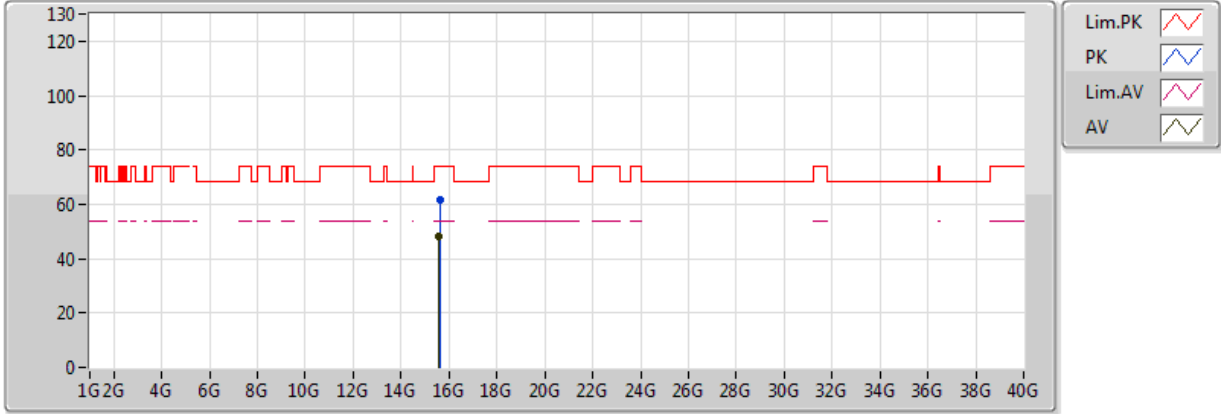
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.595G	48.12	54.00	-5.88	18.46	3	Vertical	359	1.50	-
PK	15.59832G	61.99	74.00	-12.01	18.45	3	Vertical	359	1.50	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5200MHz\_TX

20/01/2018



20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

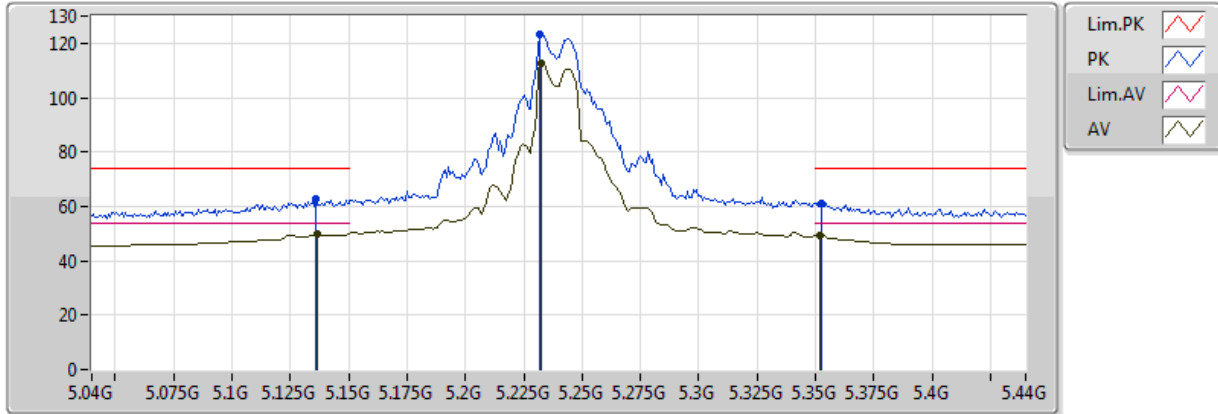
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.595G	47.99	54.00	-6.01	18.46	3	Horizontal	13	1.50	-
PK	15.60366G	61.73	74.00	-12.27	18.43	3	Horizontal	13	1.50	-



### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TX

20/01/2018



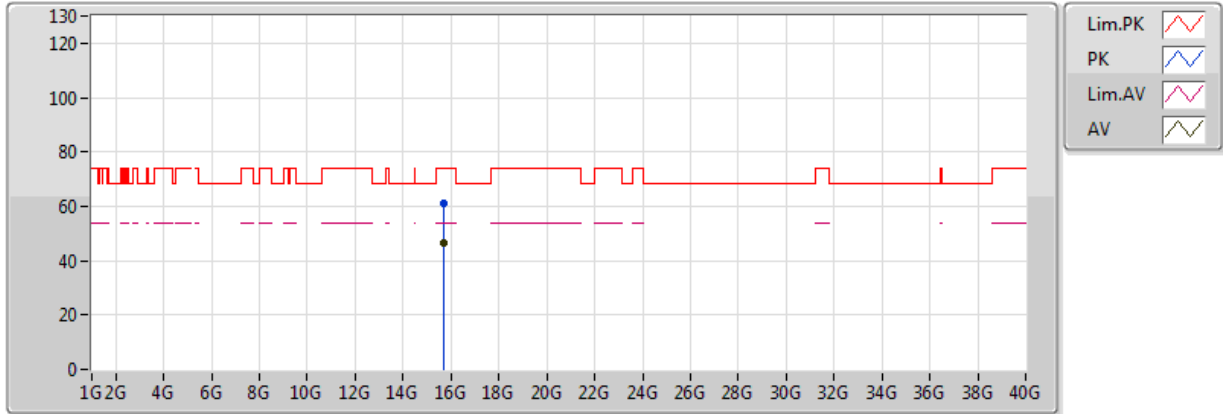
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1368G	49.64	54.00	-4.36	7.41	3	Vertical	198	1.80	-
AV	5.2328G	112.75	Inf	-Inf	7.56	3	Vertical	198	1.80	-
AV	5.352G	49.54	54.00	-4.46	7.73	3	Vertical	198	1.80	-
PK	5.136G	62.48	74.00	-11.52	7.41	3	Vertical	198	1.80	-
PK	5.232G	123.05	Inf	-Inf	7.56	3	Vertical	198	1.80	-
PK	5.3528G	61.18	74.00	-12.82	7.73	3	Vertical	198	1.80	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TX

20/01/2018



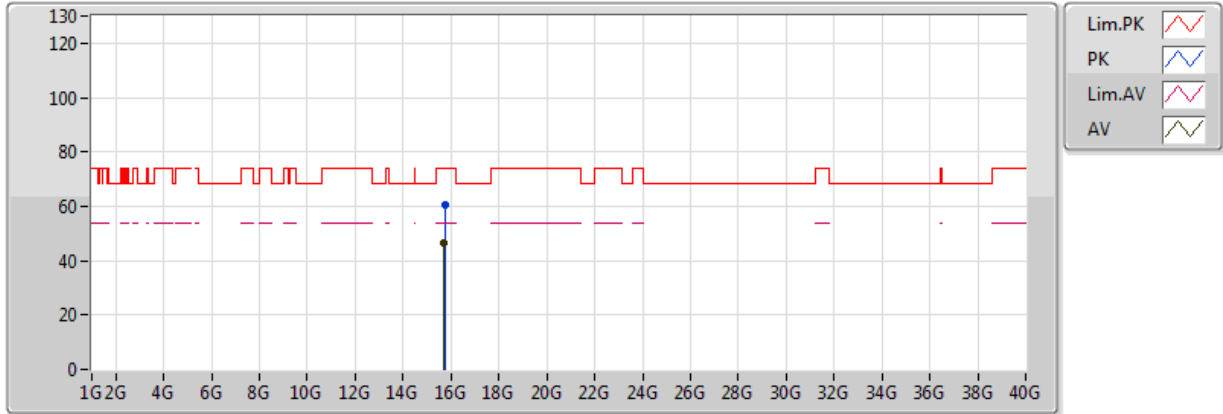
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.705G	46.77	54.00	-7.23	18.11	3	Vertical	263	1.50	-
PK	15.72174G	61.30	74.00	-12.70	18.05	3	Vertical	263	1.50	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5240MHz\_TX

20/01/2018



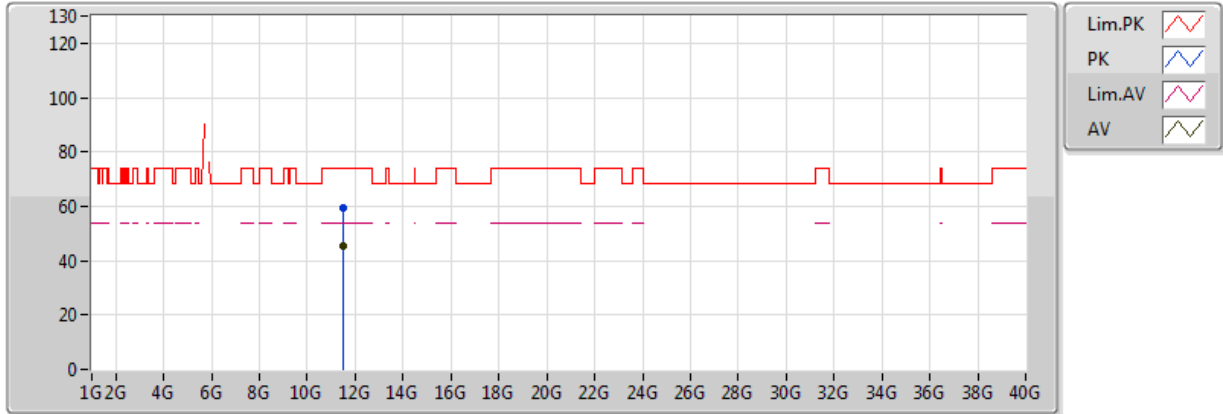
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.705G	46.69	54.00	-7.31	18.11	3	Horizontal	44	1.50	-
PK	15.7326G	60.52	74.00	-13.48	18.02	3	Horizontal	44	1.50	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TX

19/01/2018



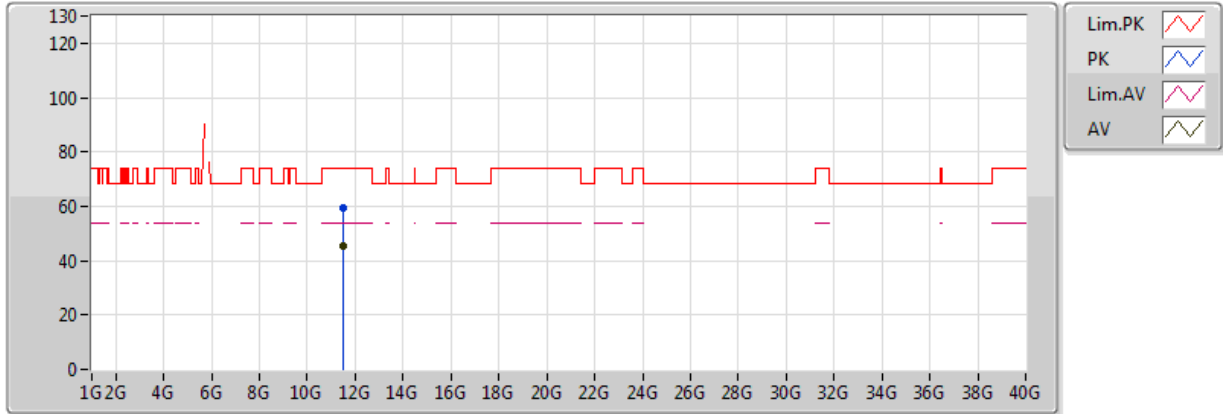
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.4911G	45.17	54.00	-8.83	18.01	3	Vertical	101	2.96	-
PK	11.48842G	59.19	74.00	-14.81	18.01	3	Vertical	101	2.96	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5745MHz\_TX

19/01/2018



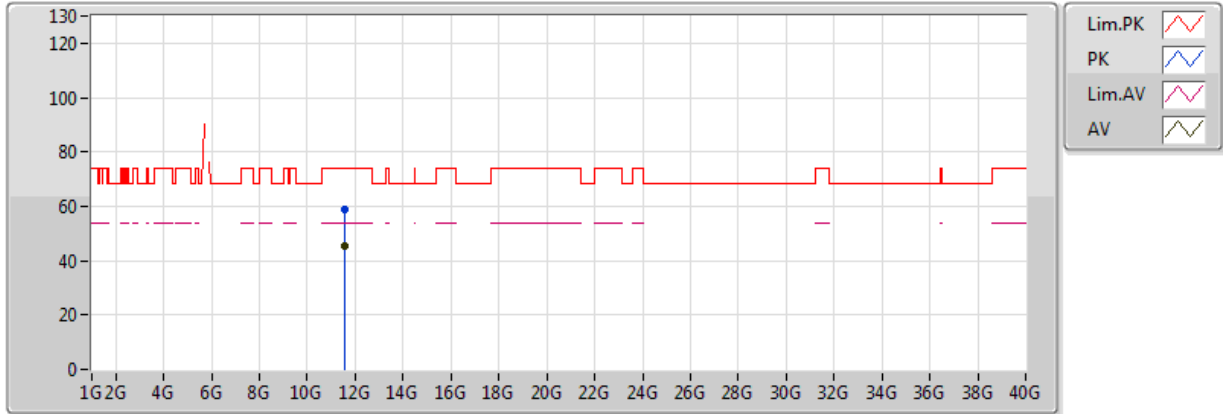
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.48682G	45.20	54.00	-8.80	18.01	3	Horizontal	64	2.03	-
PK	11.4933G	59.45	74.00	-14.55	18.01	3	Horizontal	64	2.03	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TX

19/01/2018



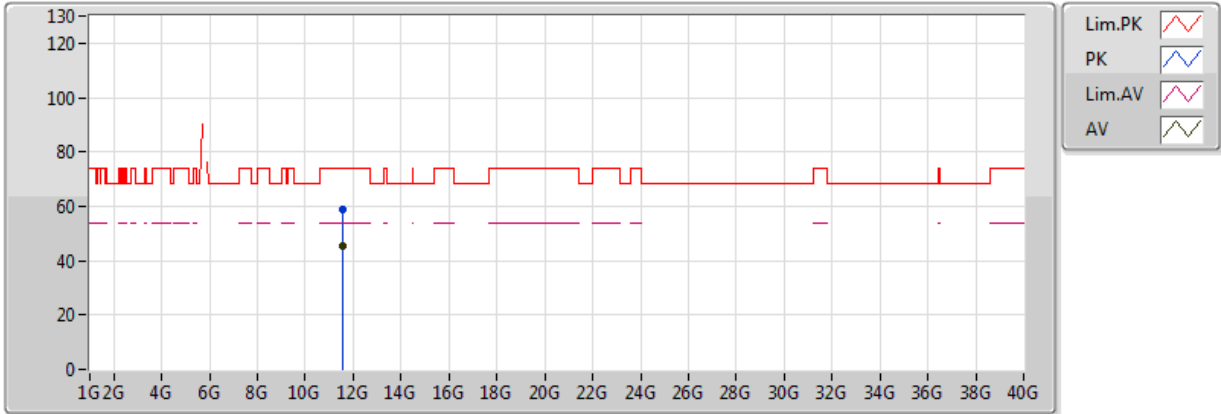
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5687G	45.62	54.00	-8.38	18.00	3	Vertical	87	1.02	-
PK	11.5671G	58.76	74.00	-15.24	18.00	3	Vertical	87	1.02	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5785MHz\_TX

19/01/2018



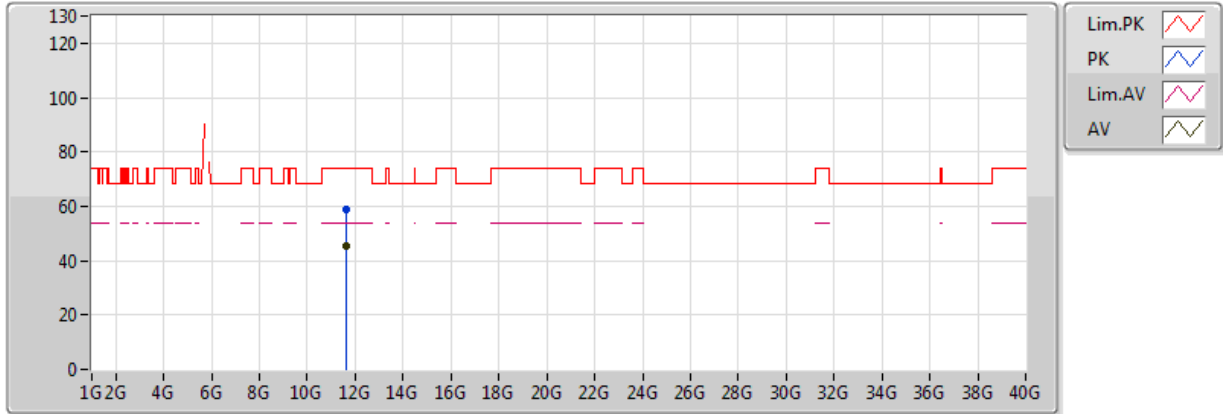
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56514G	45.57	54.00	-8.43	18.00	3	Horizontal	256	1.50	-
PK	11.57478G	58.72	74.00	-15.28	18.00	3	Horizontal	256	1.50	-

### 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TX

19/01/2018



20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

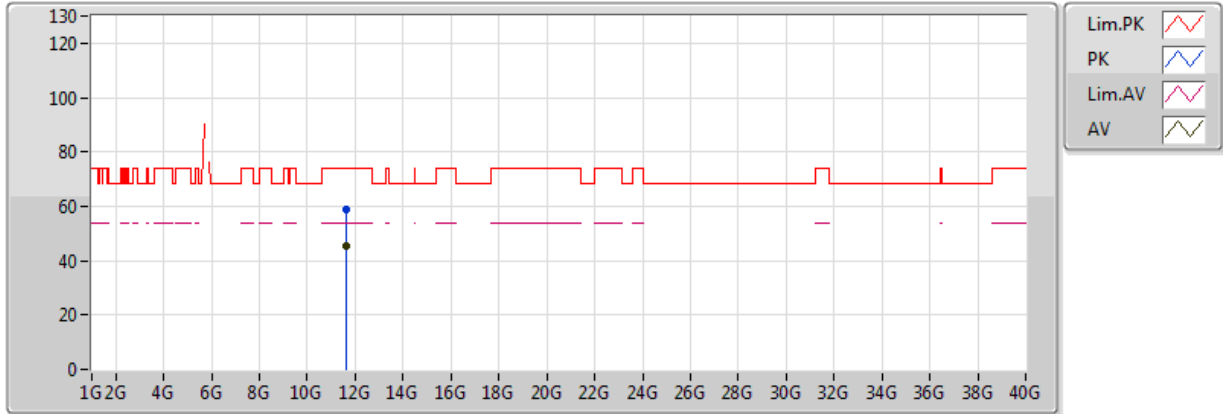
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.6539G	45.59	54.00	-8.41	17.99	3	Vertical	5	1.50	-
PK	11.65242G	59.02	74.00	-14.98	17.99	3	Vertical	5	1.50	-



### 802.11a\_Nss1,(6Mbps)\_4TX

### 5825MHz\_TX

19/01/2018



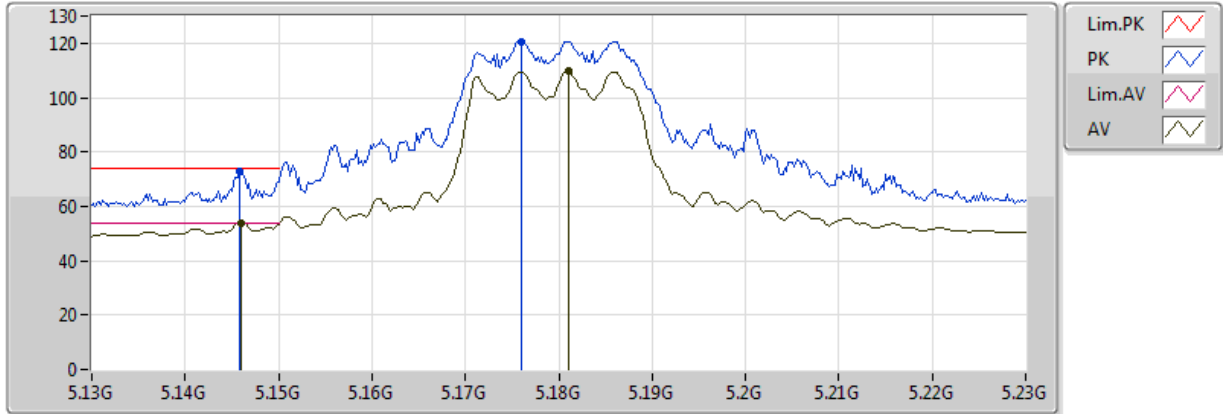
20180119  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.65408G	45.60	54.00	-8.40	17.99	3	Horizontal	46	1.50	-
PK	11.6474G	58.67	74.00	-15.33	17.99	3	Horizontal	46	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

20/01/2018



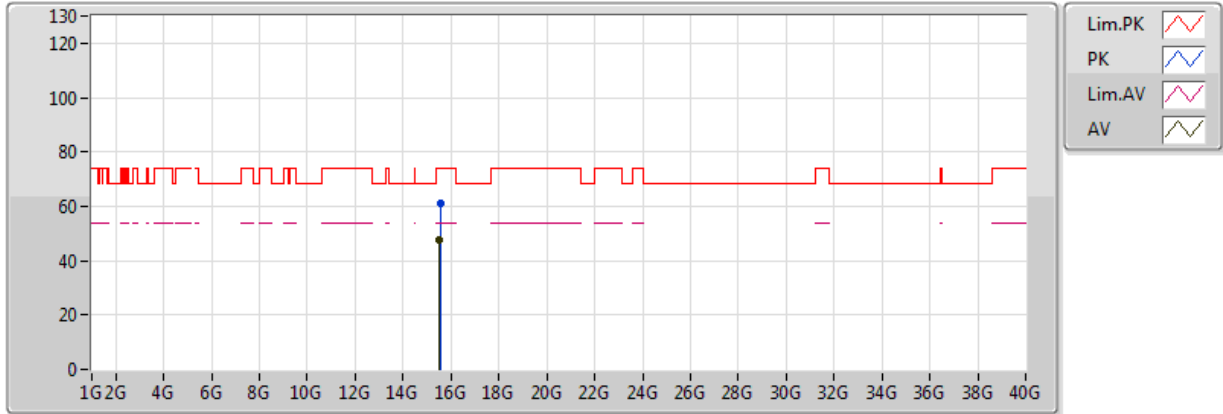
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 80  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.146G	53.98	54.00	-0.02	7.42	3	Vertical	199	1.83	-
AV	5.181G	109.57	Inf	-Inf	7.48	3	Vertical	199	1.83	-
PK	5.1458G	72.88	74.00	-1.12	7.42	3	Vertical	199	1.83	-
PK	5.176G	120.64	Inf	-Inf	7.47	3	Vertical	199	1.83	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

20/01/2018



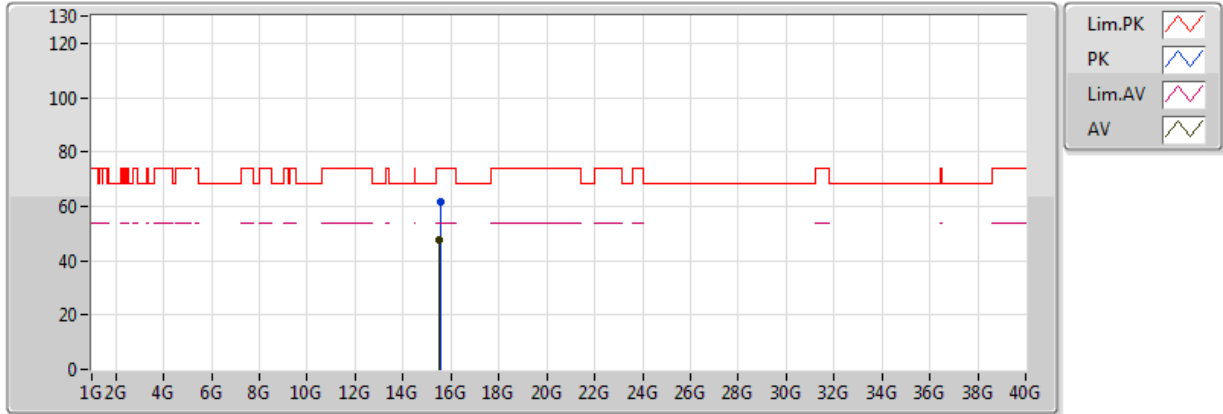
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.525G	47.78	54.00	-6.22	18.68	3	Vertical	0	1.76	-
PK	15.54258G	60.96	74.00	-13.04	18.63	3	Vertical	0	1.76	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

20/01/2018



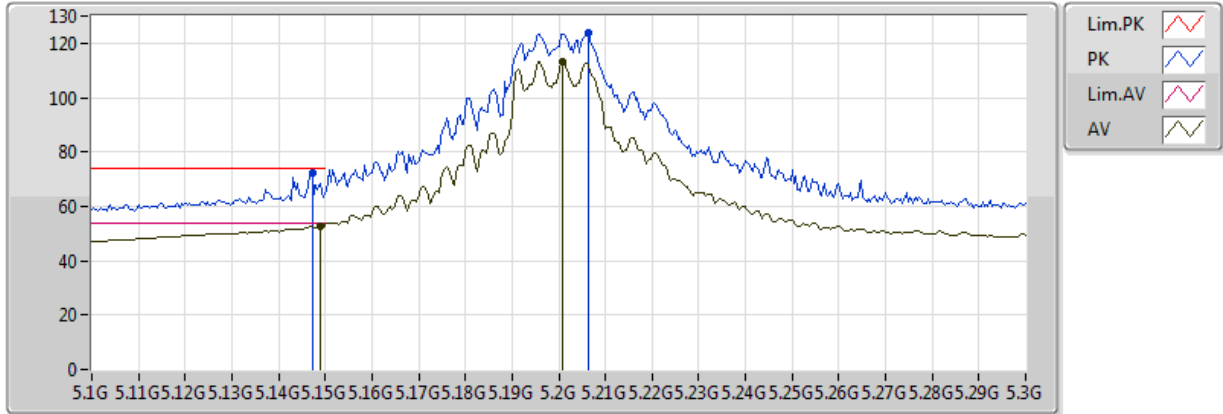
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.525G	47.79	54.00	-6.21	18.68	3	Horizontal	33	1.50	-
PK	15.5415G	61.70	74.00	-12.30	18.63	3	Horizontal	33	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

20/01/2018



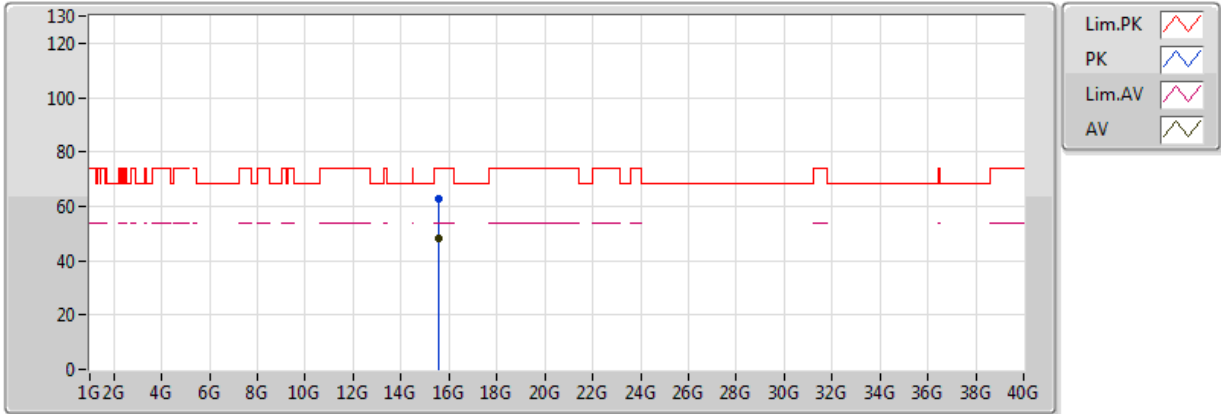
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1488G	52.87	54.00	-1.13	7.43	3	Vertical	200	1.90	-
AV	5.2008G	113.12	Inf	-Inf	7.51	3	Vertical	200	1.90	-
PK	5.1472G	72.28	74.00	-1.72	7.43	3	Vertical	200	1.90	-
PK	5.2064G	123.74	Inf	-Inf	7.52	3	Vertical	200	1.90	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

20/01/2018



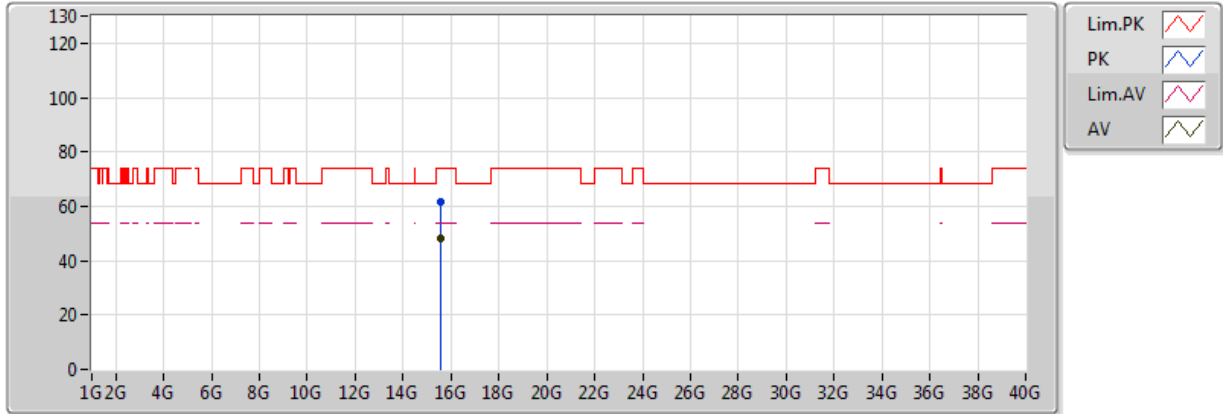
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.59506G	48.34	54.00	-5.66	18.46	3	Vertical	360	1.72	-
PK	15.59796G	62.48	74.00	-11.52	18.45	3	Vertical	360	1.72	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

20/01/2018



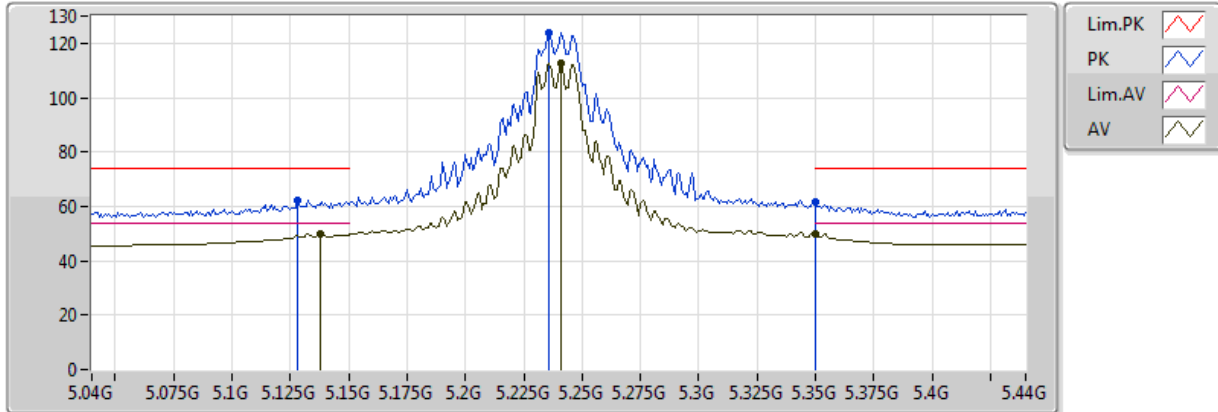
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.5952G	48.14	54.00	-5.86	18.46	3	Horizontal	38	1.50	-
PK	15.5978G	61.83	74.00	-12.17	18.45	3	Horizontal	38	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

20/01/2018



20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3-10  
FSP

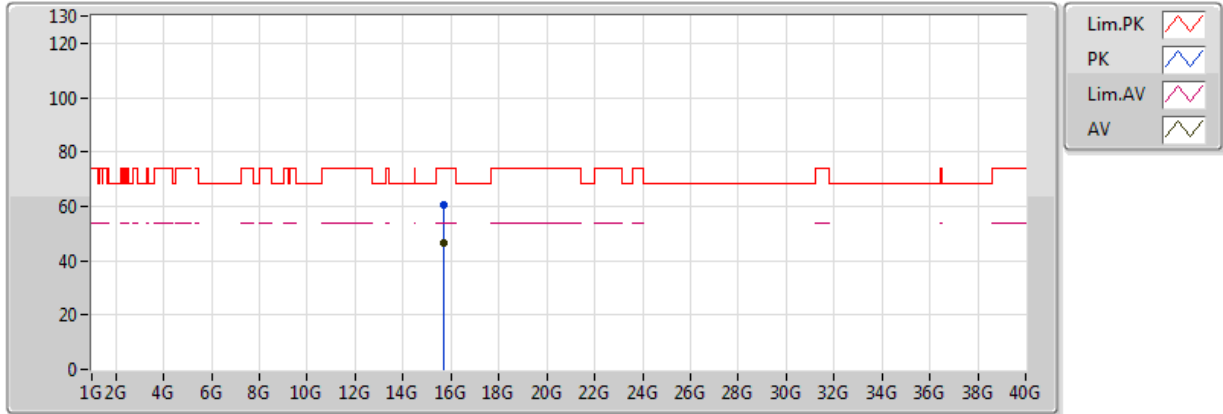
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1376G	49.92	54.00	-4.08	7.41	3	Vertical	201	1.75	-
AV	5.2408G	112.52	Inf	-Inf	7.57	3	Vertical	201	1.75	-
AV	5.350005G	50.11	54.00	-3.89	7.73	3	Vertical	201	1.75	-
PK	5.128G	62.22	74.00	-11.78	7.39	3	Vertical	201	1.75	-
PK	5.236G	124.08	Inf	-Inf	7.56	3	Vertical	201	1.75	-
PK	5.350005G	61.36	74.00	-12.64	7.73	3	Vertical	201	1.75	-



### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

20/01/2018



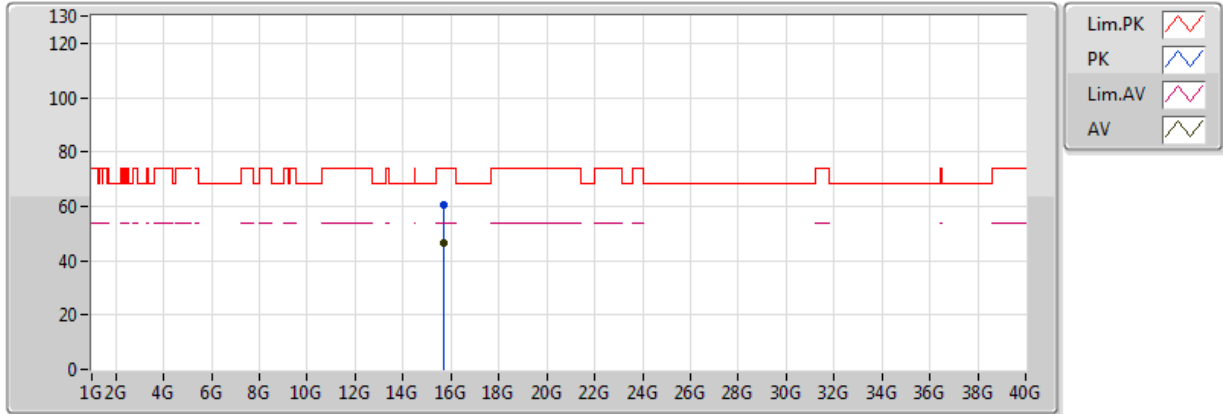
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.70506G	46.66	54.00	-7.34	18.11	3	Vertical	120	2.90	-
PK	15.71244G	60.41	74.00	-13.59	18.08	3	Vertical	120	2.90	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

20/01/2018



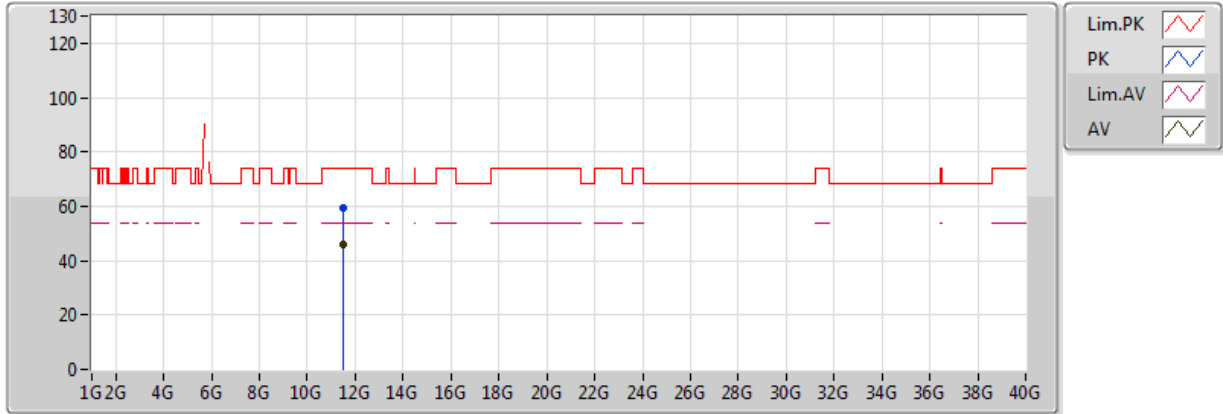
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.705G	46.70	54.00	-7.30	18.11	3	Horizontal	144	1.50	-
PK	15.71844G	60.50	74.00	-13.50	18.06	3	Horizontal	144	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

19/01/2018



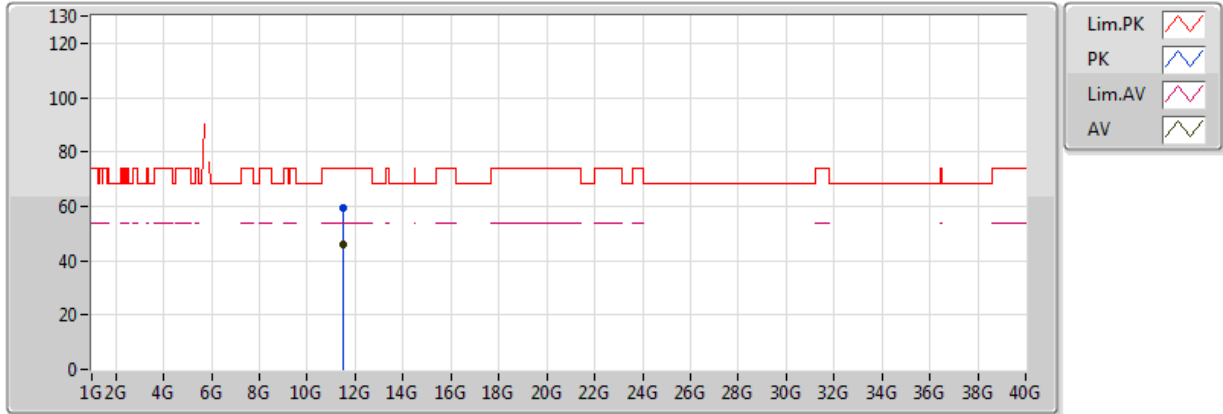
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49318G	45.85	54.00	-8.15	18.01	3	Vertical	310	1.50	-
PK	11.494G	59.42	74.00	-14.58	18.01	3	Vertical	310	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

19/01/2018



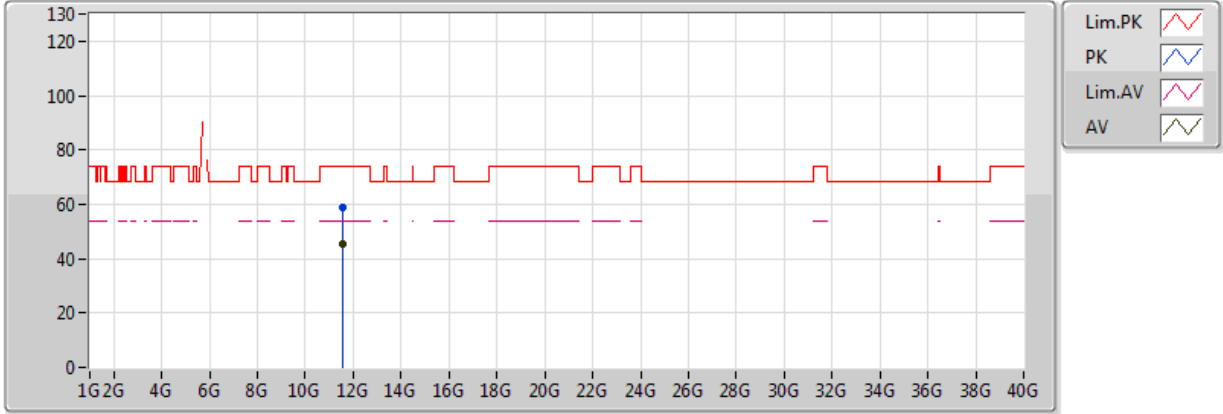
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49286G	46.00	54.00	-8.00	18.01	3	Horizontal	187	2.41	-
PK	11.48918G	59.34	74.00	-14.66	18.01	3	Horizontal	187	2.41	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

19/01/2018



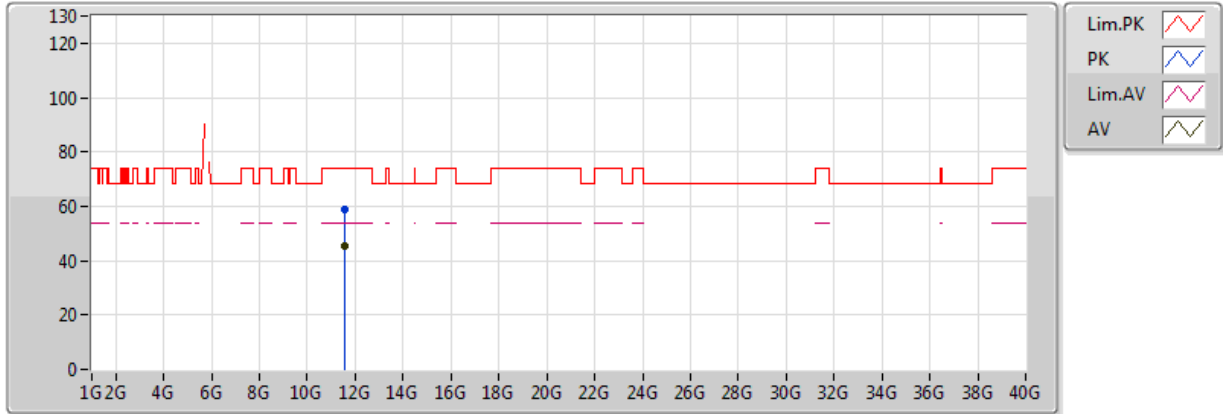
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56552G	45.59	54.00	-8.41	18.00	3	Vertical	355	1.93	-
PK	11.56664G	58.59	74.00	-15.41	18.00	3	Vertical	355	1.93	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

19/01/2018



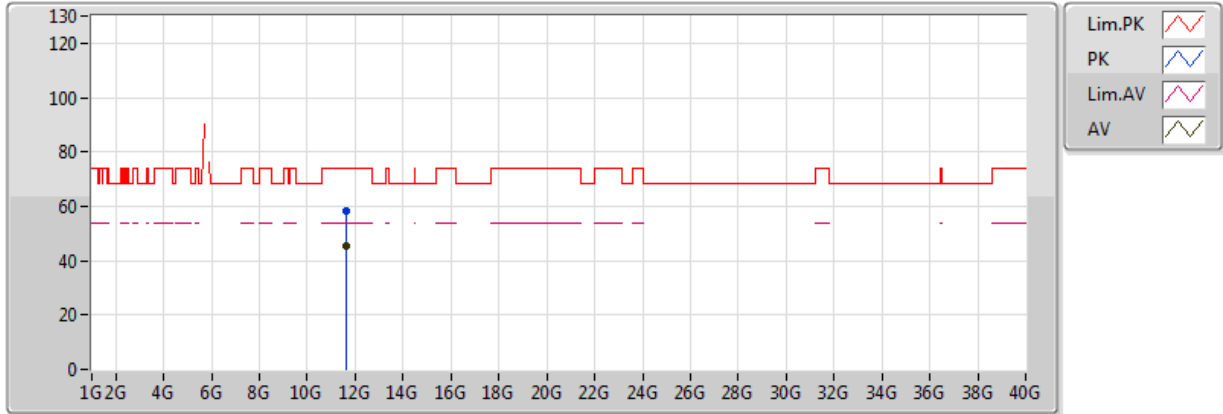
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56908G	45.44	54.00	-8.56	18.00	3	Horizontal	2	1.50	-
PK	11.57008G	58.80	74.00	-15.20	18.00	3	Horizontal	2	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

19/01/2018



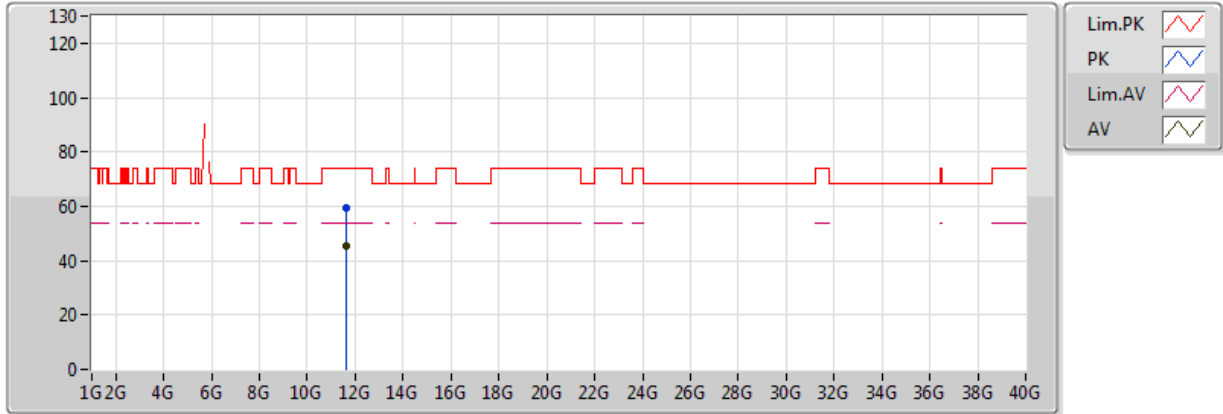
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.65204G	45.19	54.00	-8.81	17.99	3	Vertical	250	1.50	-
PK	11.6524G	58.52	74.00	-15.48	17.99	3	Vertical	250	1.50	-

### 802.11ac VHT20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

19/01/2018



20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

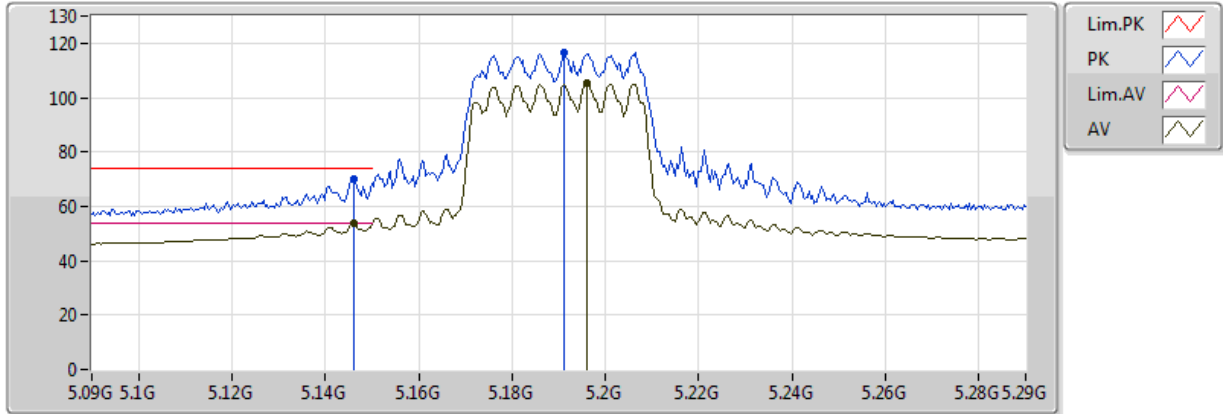
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.65218G	45.28	54.00	-8.72	17.99	3	Horizontal	184	1.50	-
PK	11.64702G	59.24	74.00	-14.76	17.99	3	Horizontal	184	1.50	-



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

20/01/2018



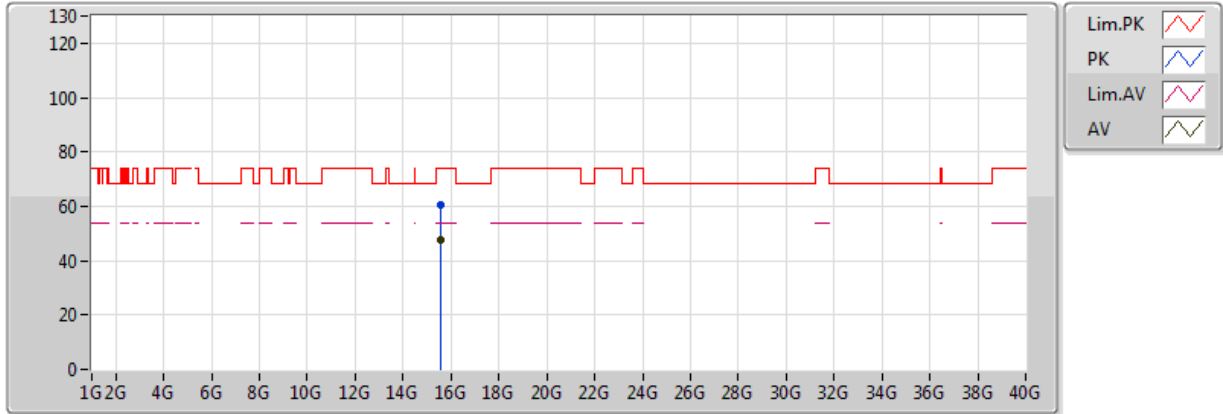
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 72  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.146G	53.89	54.00	-0.11	7.42	3	Vertical	198	1.88	-
AV	5.196G	105.28	Inf	-Inf	7.50	3	Vertical	198	1.88	-
PK	5.146G	70.11	74.00	-3.89	7.42	3	Vertical	198	1.88	-
PK	5.1912G	116.46	Inf	-Inf	7.50	3	Vertical	198	1.88	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

20/01/2018



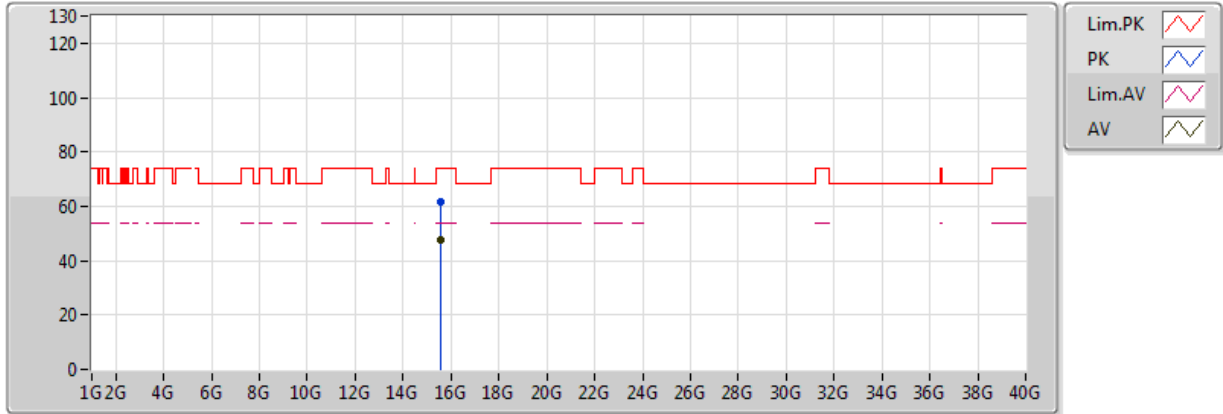
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.55506G	47.46	54.00	-6.54	18.59	3	Vertical	174	1.66	-
PK	15.56802G	60.50	74.00	-13.50	18.54	3	Vertical	174	1.66	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

20/01/2018



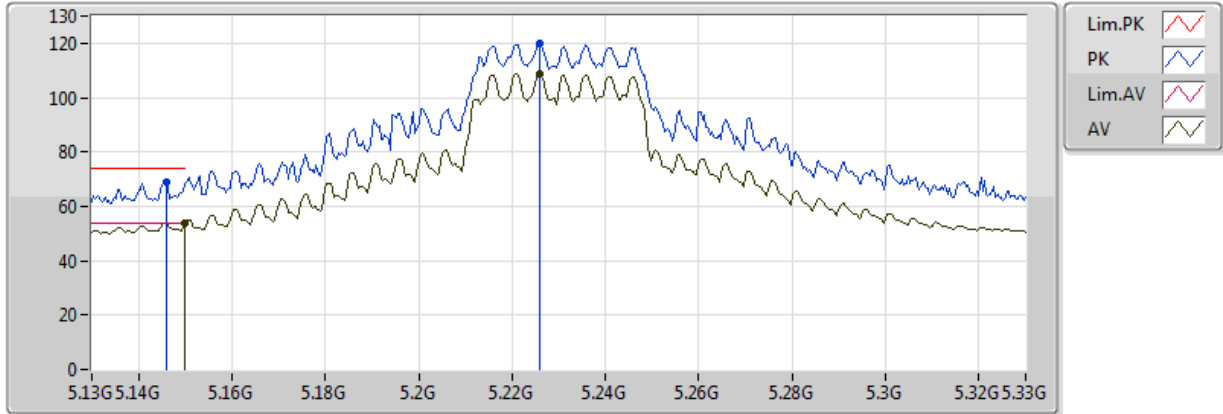
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.555G	47.52	54.00	-6.48	18.59	3	Horizontal	98	1.50	-
PK	15.56298G	61.59	74.00	-12.41	18.56	3	Horizontal	98	1.50	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

20/01/2018



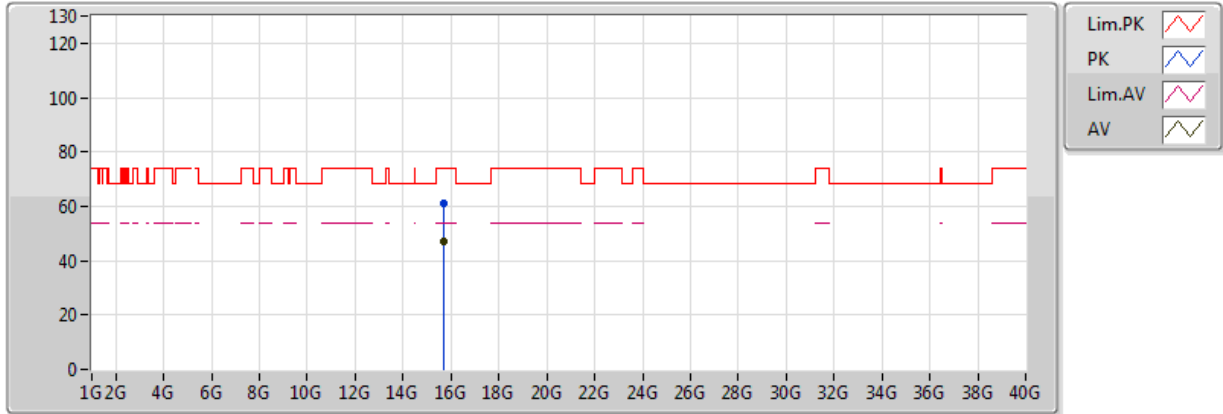
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 89  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.95	54.00	-0.05	7.43	3	Vertical	201	1.79	-
AV	5.226G	108.87	Inf	-Inf	7.55	3	Vertical	201	1.79	-
PK	5.146G	69.02	74.00	-4.98	7.42	3	Vertical	201	1.79	-
PK	5.226G	119.69	Inf	-Inf	7.55	3	Vertical	201	1.79	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

20/01/2018



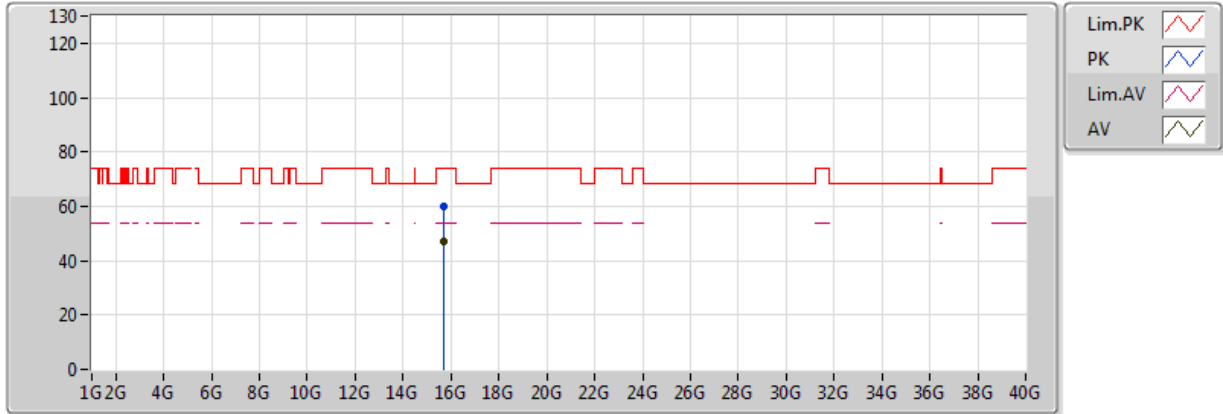
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.675G	46.79	54.00	-7.21	18.20	3	Vertical	314	1.49	-
PK	15.67506G	60.88	74.00	-13.12	18.20	3	Vertical	314	1.49	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

20/01/2018



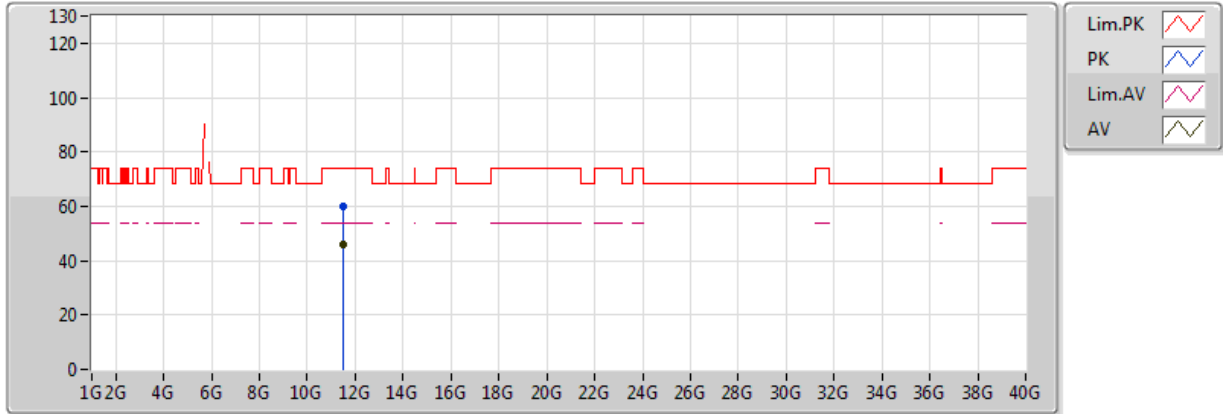
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.675G	46.84	54.00	-7.16	18.20	3	Horizontal	88	1.50	-
PK	15.67848G	59.82	74.00	-14.18	18.19	3	Horizontal	88	1.50	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

19/01/2018



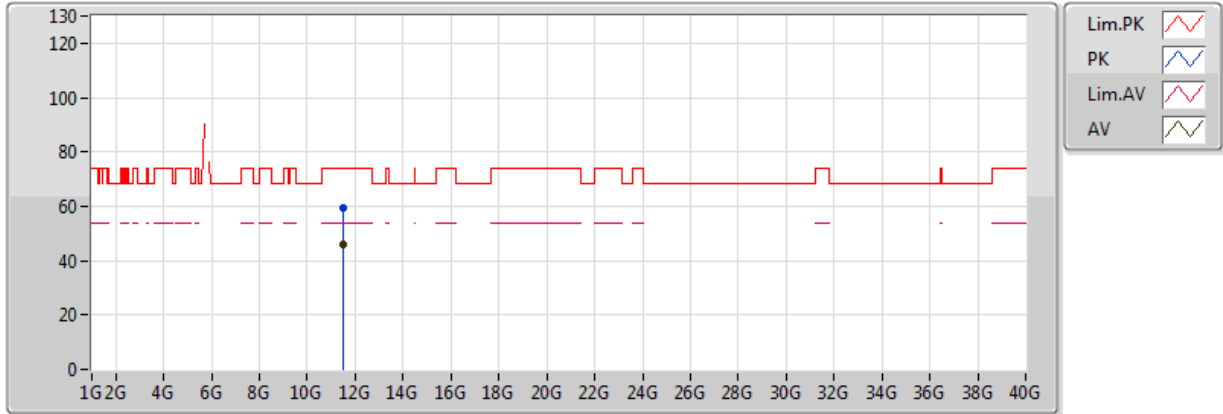
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50976G	46.03	54.00	-7.97	18.01	3	Vertical	134	1.48	-
PK	11.50826G	59.93	74.00	-14.07	18.01	3	Vertical	134	1.48	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

19/01/2018



20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

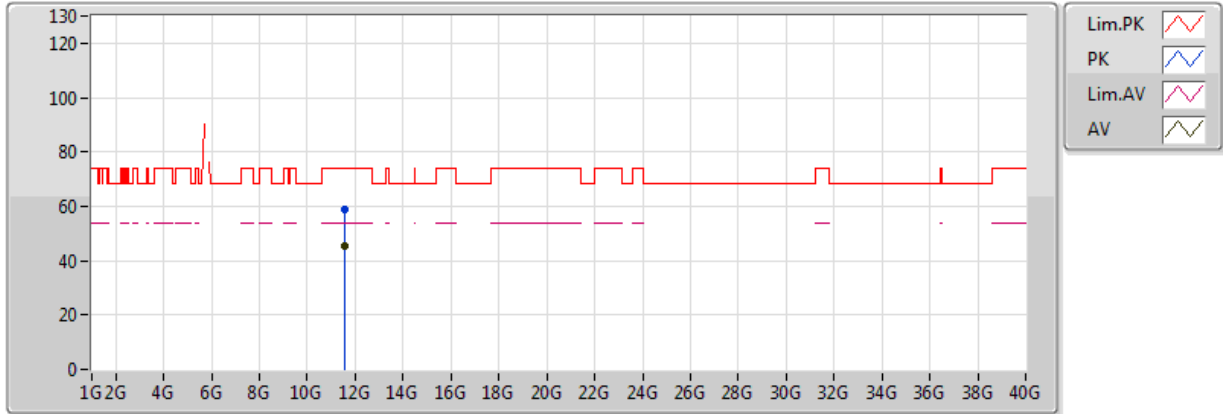
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50636G	45.93	54.00	-8.07	18.01	3	Horizontal	63	1.50	-
PK	11.5066G	59.13	74.00	-14.87	18.01	3	Horizontal	63	1.50	-



### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

19/01/2018



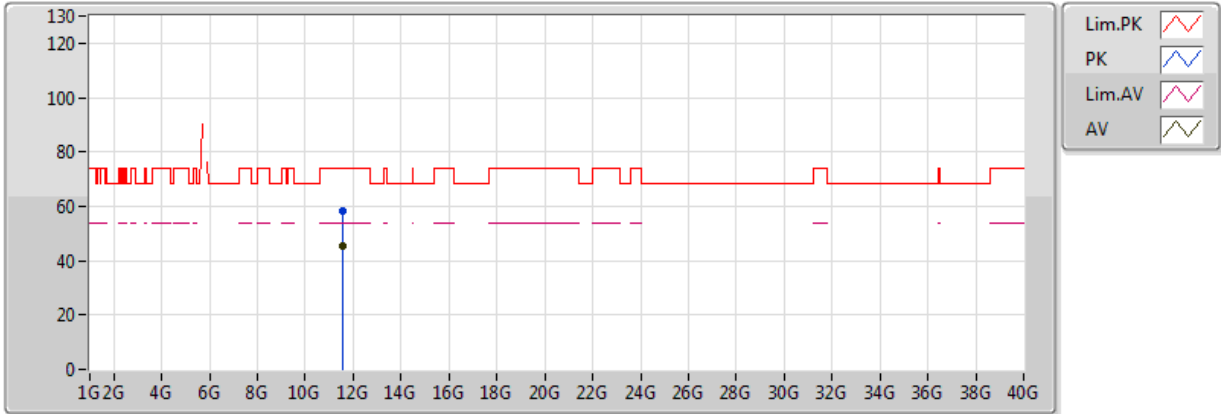
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.58822G	45.41	54.00	-8.59	18.00	3	Vertical	117	1.50	-
PK	11.59294G	58.93	74.00	-15.07	18.00	3	Vertical	117	1.50	-

### 802.11ac VHT40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

19/01/2018



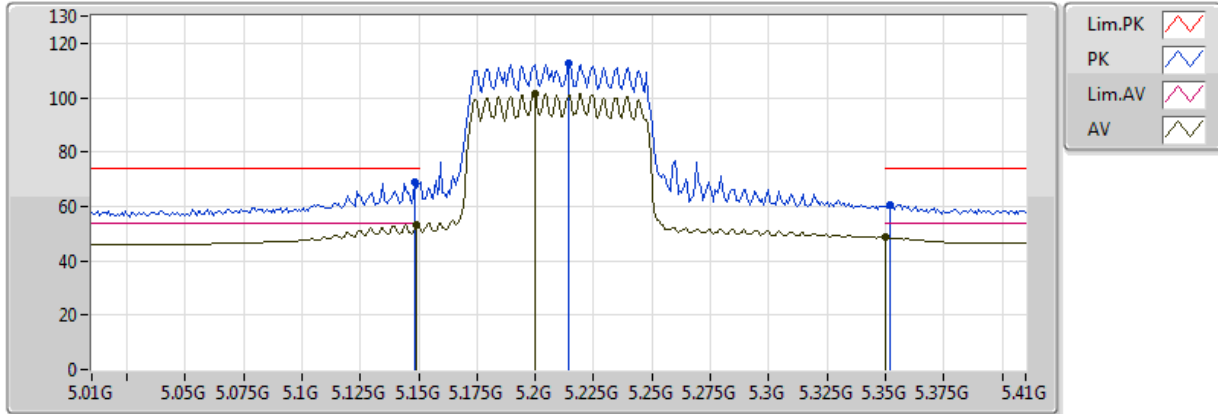
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5861G	45.39	54.00	-8.61	18.00	3	Horizontal	147	1.50	-
PK	11.59202G	58.51	74.00	-15.49	18.00	3	Horizontal	147	1.50	-

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

18/01/2018



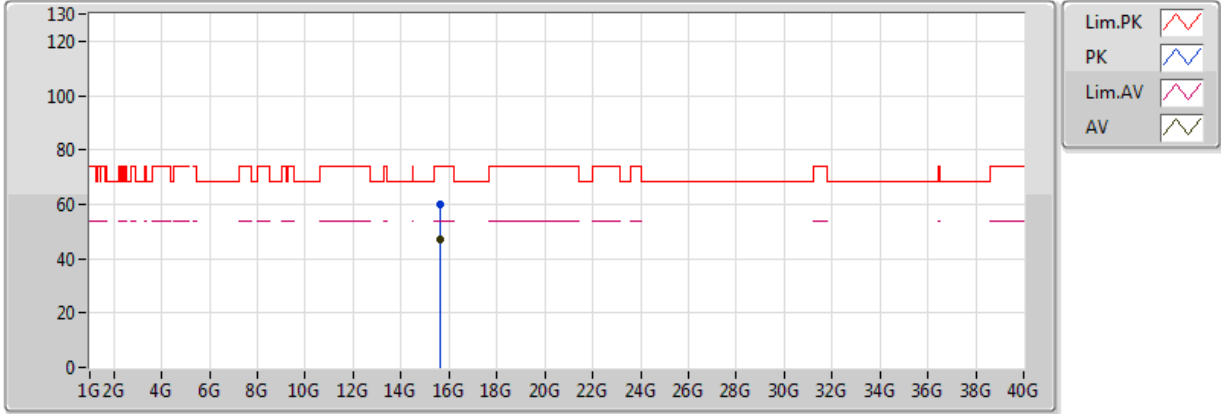
20180118  
EUT\_Z\_4\_TX\_Dipole  
Setting 72  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1492G	53.30	54.00	-0.70	7.43	3	Vertical	164	1.99	-
AV	5.1996G	101.42	Inf	-Inf	7.51	3	Vertical	164	1.99	-
AV	5.350005G	48.52	54.00	-5.48	7.73	3	Vertical	164	1.99	-
PK	5.1484G	68.89	74.00	-5.11	7.43	3	Vertical	164	1.99	-
PK	5.214G	112.37	Inf	-Inf	7.53	3	Vertical	164	1.99	-
PK	5.3516G	60.59	74.00	-13.41	7.73	3	Vertical	164	1.99	-

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

20/01/2018



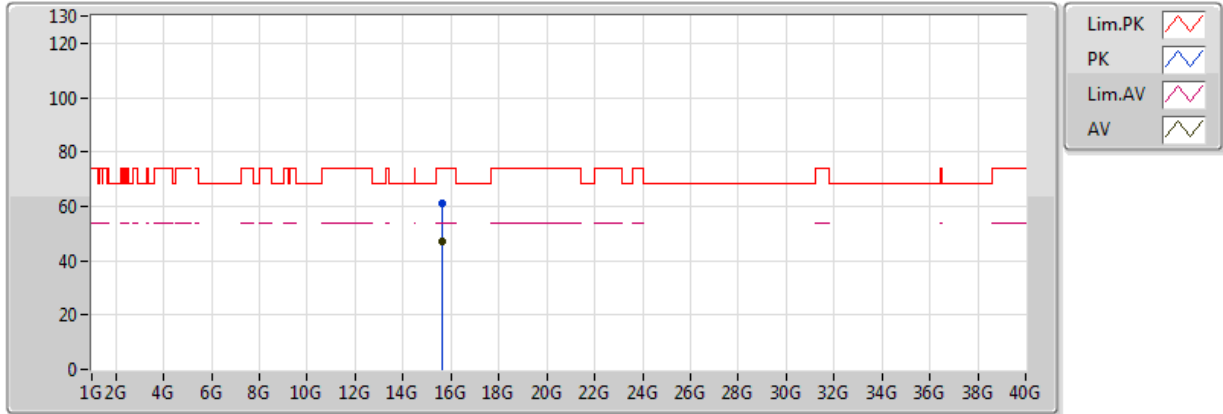
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.615G	46.94	54.00	-7.06	18.39	3	Vertical	268	1.50	-
PK	15.624G	59.93	74.00	-14.07	18.37	3	Vertical	268	1.50	-

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

20/01/2018



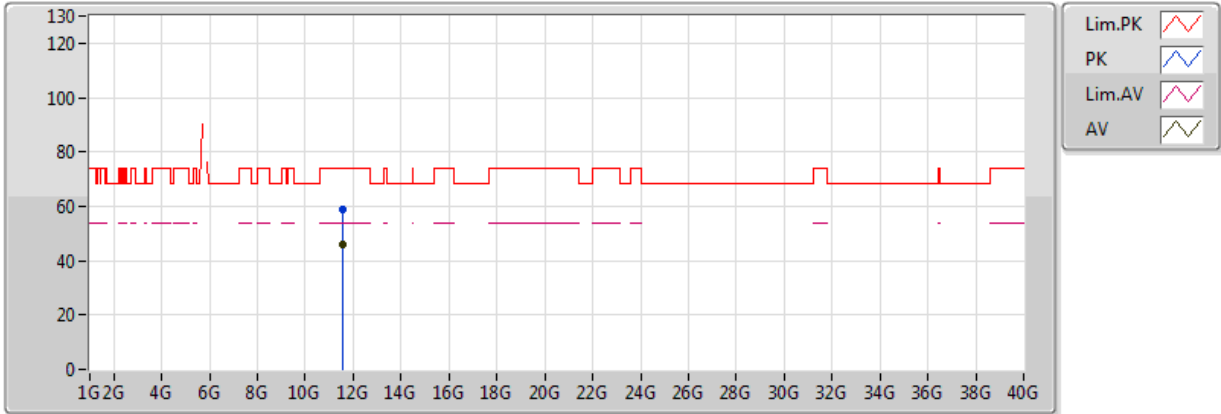
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.615G	47.08	54.00	-6.92	18.39	3	Horizontal	300	1.87	-
PK	15.6165G	60.83	74.00	-13.17	18.39	3	Horizontal	300	1.87	-

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

19/01/2018



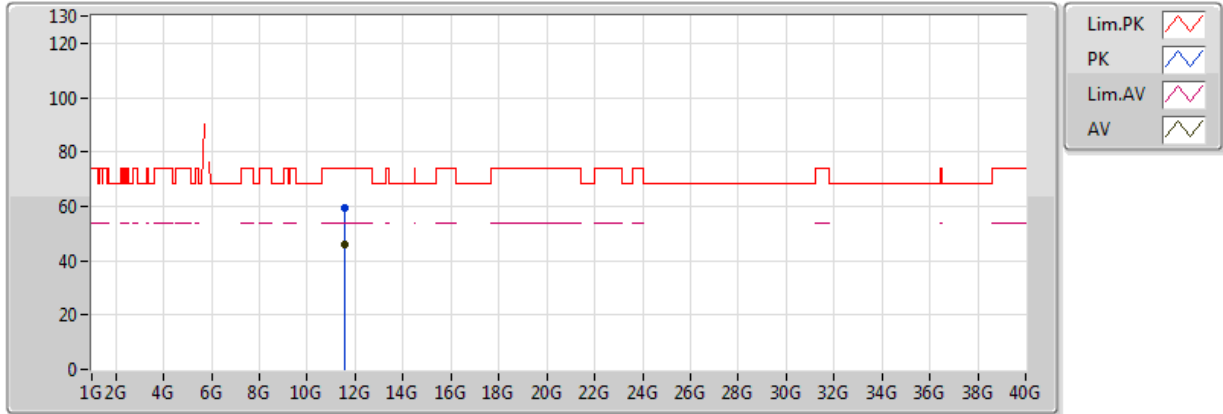
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.55286G	45.76	54.00	-8.24	18.00	3	Vertical	153	1.50	-
PK	11.5491G	58.66	74.00	-15.34	18.00	3	Vertical	153	1.50	-

### 802.11ac VHT80\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

19/01/2018



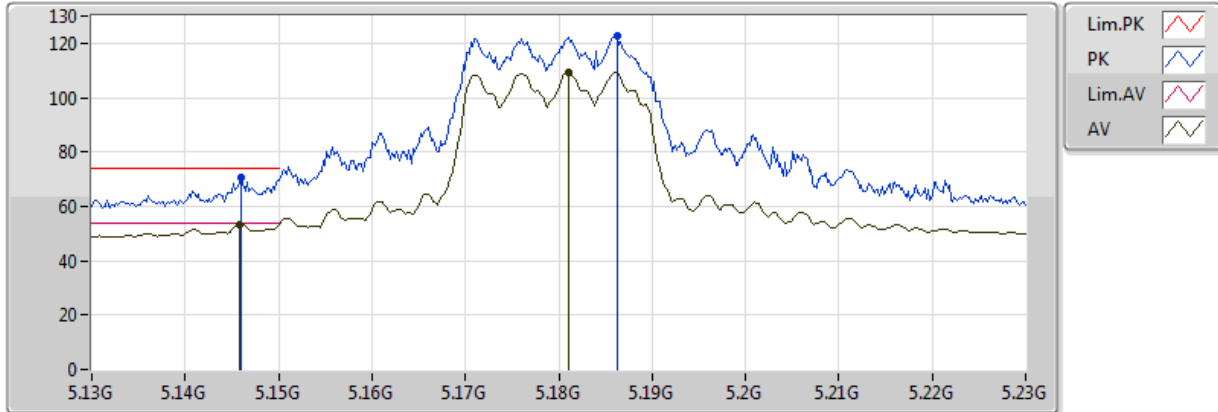
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.55046G	45.68	54.00	-8.32	18.00	3	Horizontal	322	2.28	-
PK	11.54666G	59.29	74.00	-14.71	18.00	3	Horizontal	322	2.28	-

### HE20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

20/01/2018



20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 76  
06-L-3-10  
FSP

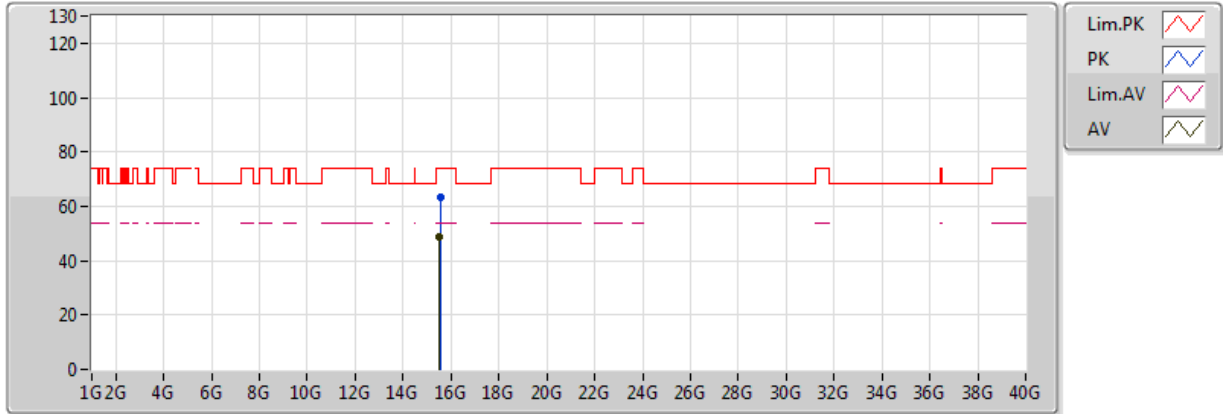
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1458G	53.40	54.00	-0.60	7.42	3	Vertical	198	1.93	-
AV	5.181G	109.27	Inf	-Inf	7.48	3	Vertical	198	1.93	-
PK	5.146G	70.63	74.00	-3.37	7.42	3	Vertical	198	1.93	-
PK	5.1862G	122.99	Inf	-Inf	7.49	3	Vertical	198	1.93	-



### HE20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

20/01/2018



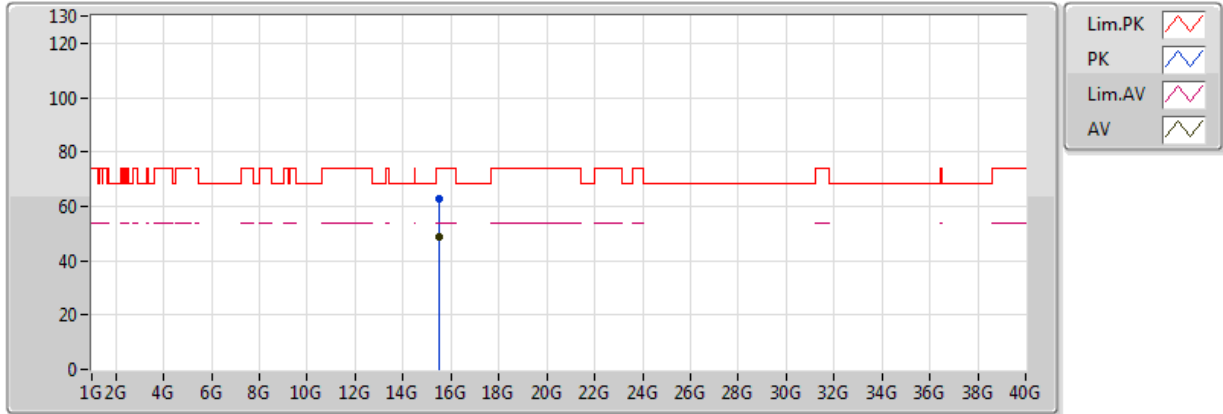
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.5262G	48.91	54.00	-5.09	18.68	3	Vertical	183	1.28	-
PK	15.54132G	63.15	74.00	-10.85	18.63	3	Vertical	183	1.28	-

### HE20\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

20/01/2018



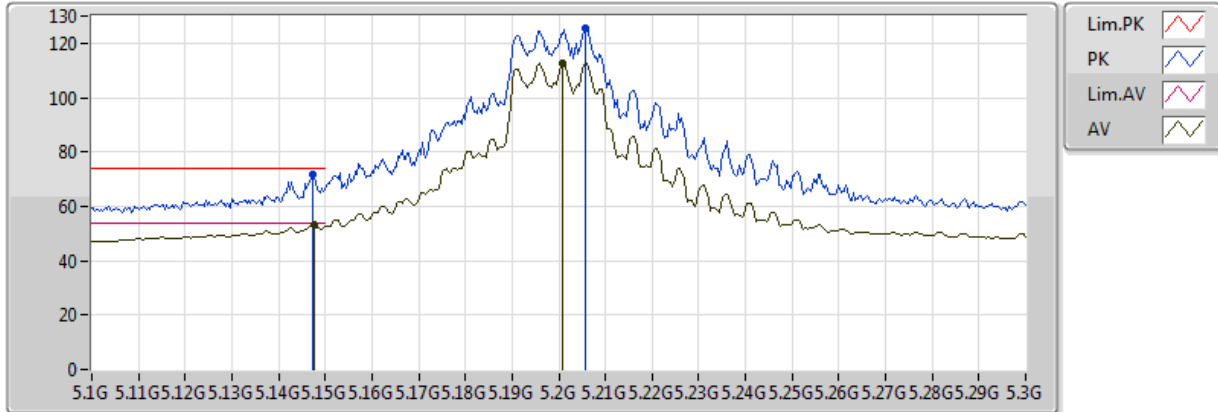
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.52542G	48.91	54.00	-5.09	18.68	3	Horizontal	151	1.38	-
PK	15.52656G	62.90	74.00	-11.10	18.68	3	Horizontal	151	1.38	-

### HE20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

20/01/2018



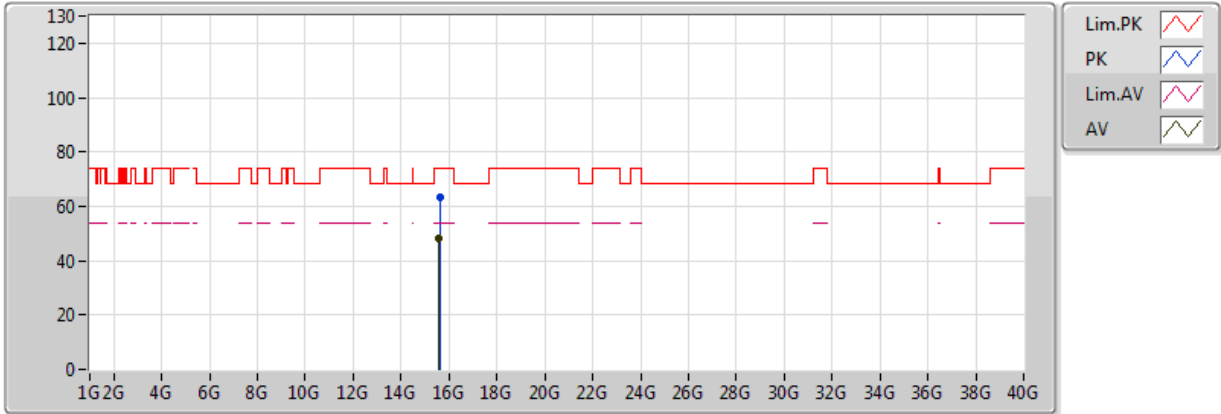
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 92  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1476G	53.34	54.00	-0.66	7.43	3	Vertical	200	1.94	-
AV	5.2008G	112.79	Inf	-Inf	7.51	3	Vertical	200	1.94	-
PK	5.1472G	71.50	74.00	-2.50	7.43	3	Vertical	200	1.94	-
PK	5.2056G	125.33	Inf	-Inf	7.52	3	Vertical	200	1.94	-

### HE20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

20/01/2018



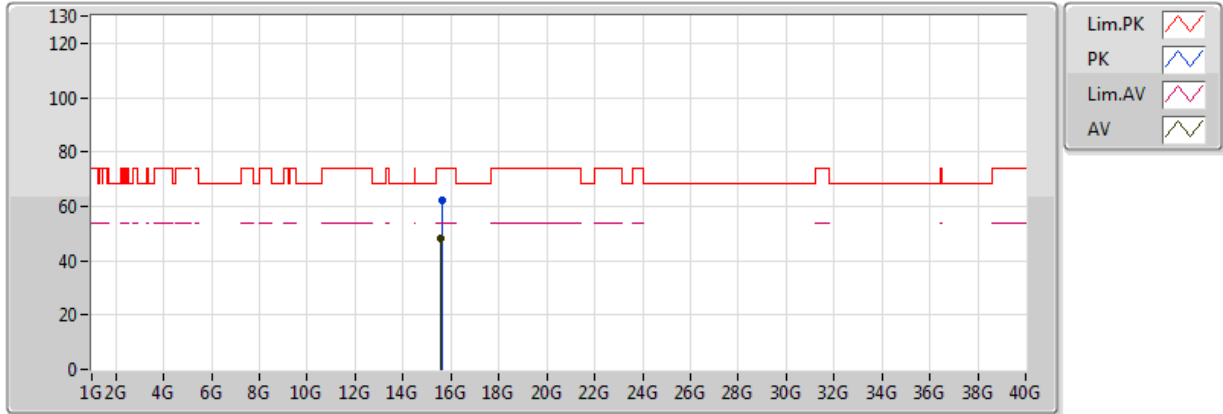
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 92  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.59562G	48.42	54.00	-5.58	18.46	3	Vertical	35	1.81	-
PK	15.60304G	63.47	74.00	-10.53	18.43	3	Vertical	35	1.81	-

### HE20\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

20/01/2018



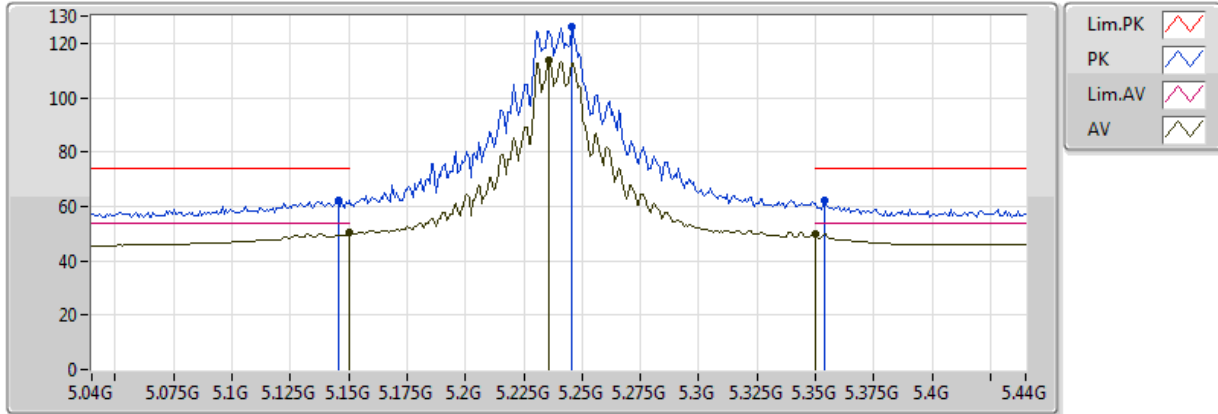
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 92  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.59592G	48.43	54.00	-5.57	18.46	3	Horizontal	356	1.50	-
PK	15.6039G	62.40	74.00	-11.60	18.43	3	Horizontal	356	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

20/01/2018



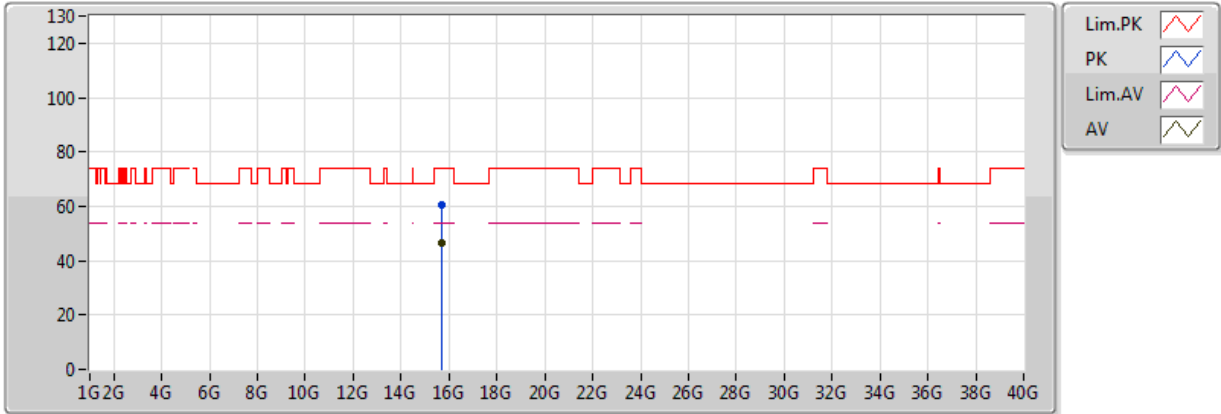
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	50.26	54.00	-3.74	7.43	3	Vertical	201	1.92	-
AV	5.236G	113.47	Inf	-Inf	7.56	3	Vertical	201	1.92	-
AV	5.350005G	49.86	54.00	-4.14	7.73	3	Vertical	201	1.92	-
PK	5.1456G	61.92	74.00	-12.08	7.42	3	Vertical	201	1.92	-
PK	5.2456G	126.21	Inf	-Inf	7.58	3	Vertical	201	1.92	-
PK	5.3536G	62.16	74.00	-11.84	7.73	3	Vertical	201	1.92	-

### HE20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

20/01/2018



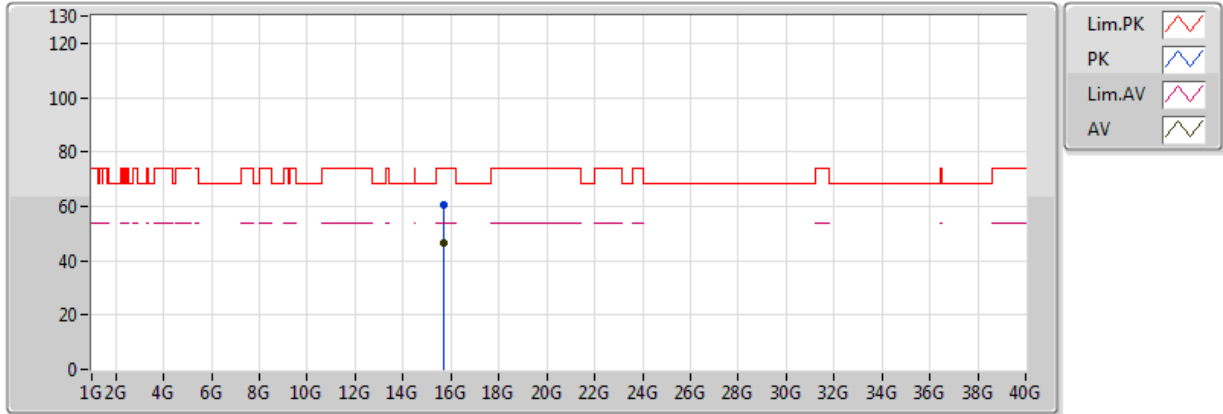
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.705G	46.67	54.00	-7.33	18.11	3	Vertical	184	1.50	-
PK	15.70626G	60.50	74.00	-13.50	18.10	3	Vertical	184	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

20/01/2018



20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

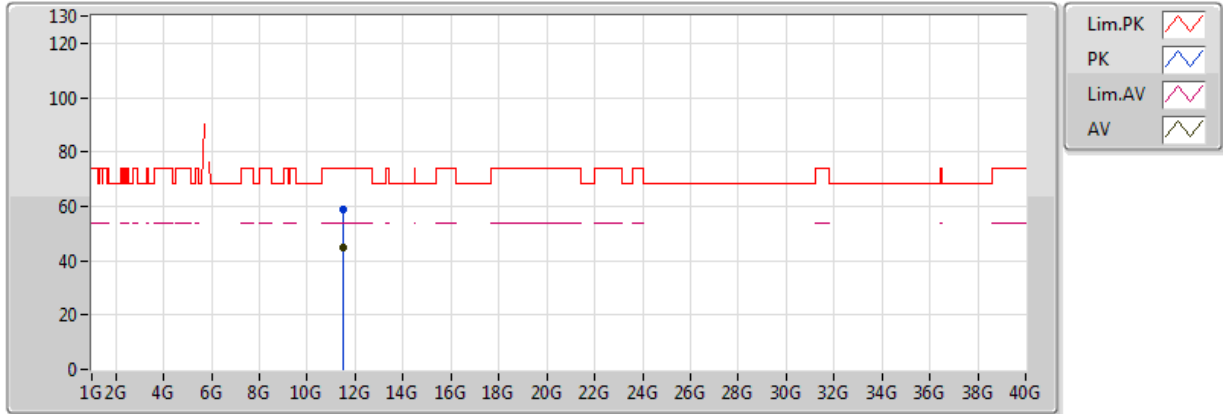
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.705G	46.70	54.00	-7.30	18.11	3	Horizontal	21	1.05	-
PK	15.7149G	60.34	74.00	-13.66	18.07	3	Horizontal	21	1.05	-



### HE20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

19/01/2018



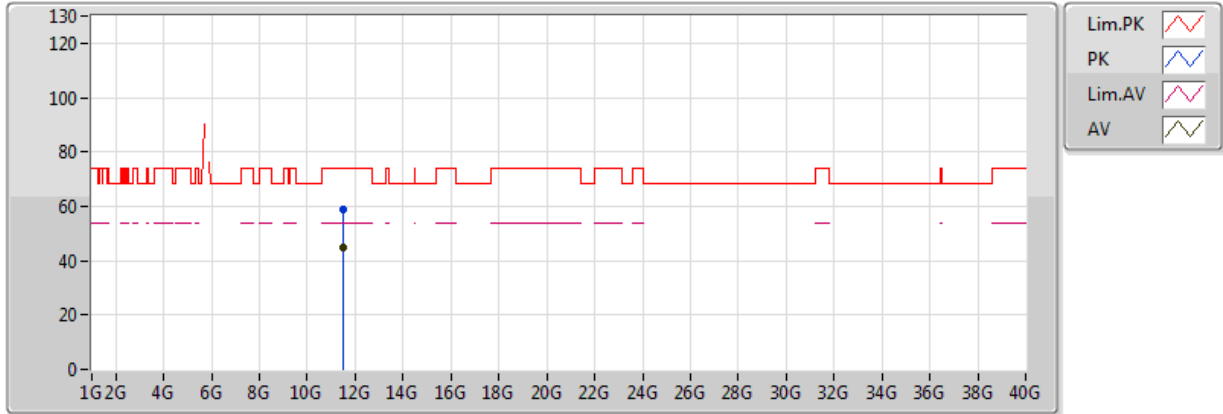
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.48532G	45.09	54.00	-8.91	18.01	3	Vertical	268	1.50	-
PK	11.4887G	58.83	74.00	-15.17	18.01	3	Vertical	268	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

19/01/2018



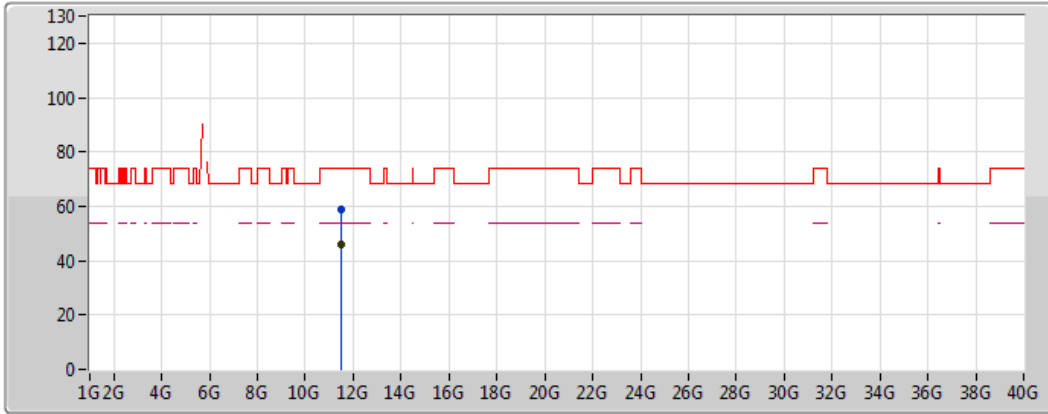
20180119  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49258G	45.09	54.00	-8.91	18.01	3	Horizontal	45	1.50	-
PK	11.48726G	58.96	74.00	-15.04	18.01	3	Horizontal	45	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

19/01/2018



- Lim.PK 
- PK 
- Lim.AV 
- AV 

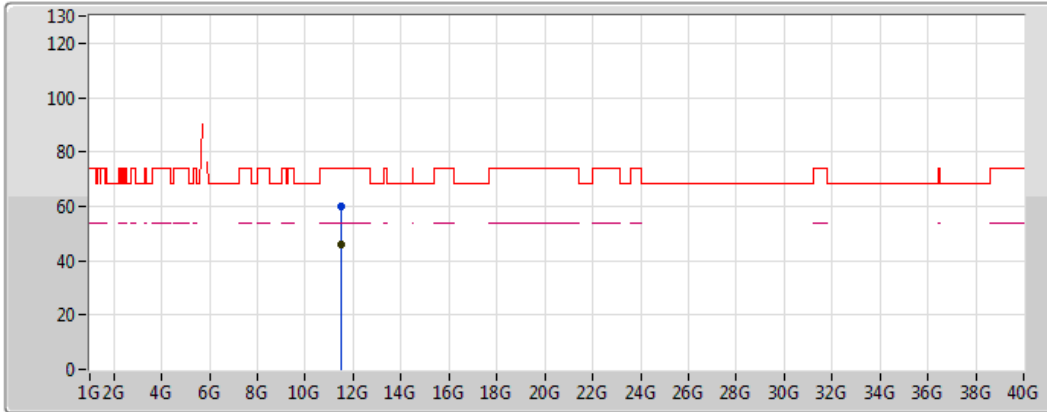
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49064G	46.09	54.00	-7.91	18.01	3	Vertical	325	1.50	-
PK	11.49386G	59.00	74.00	-15.00	18.01	3	Vertical	325	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

19/01/2018



Legend:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink dashed line)
- AV (Black line)

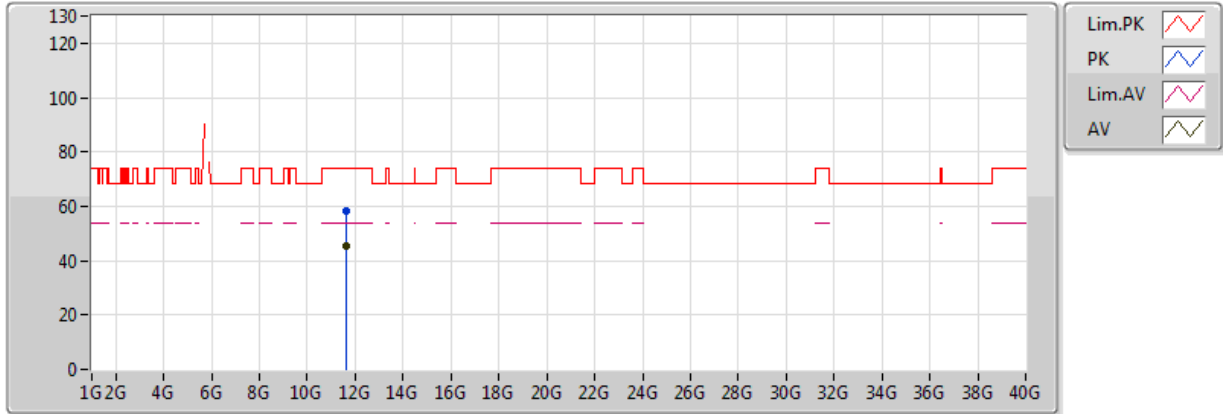
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49072G	46.15	54.00	-7.85	18.01	3	Horizontal	322	1.50	-
PK	11.48632G	59.91	74.00	-14.09	18.01	3	Horizontal	322	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

19/01/2018



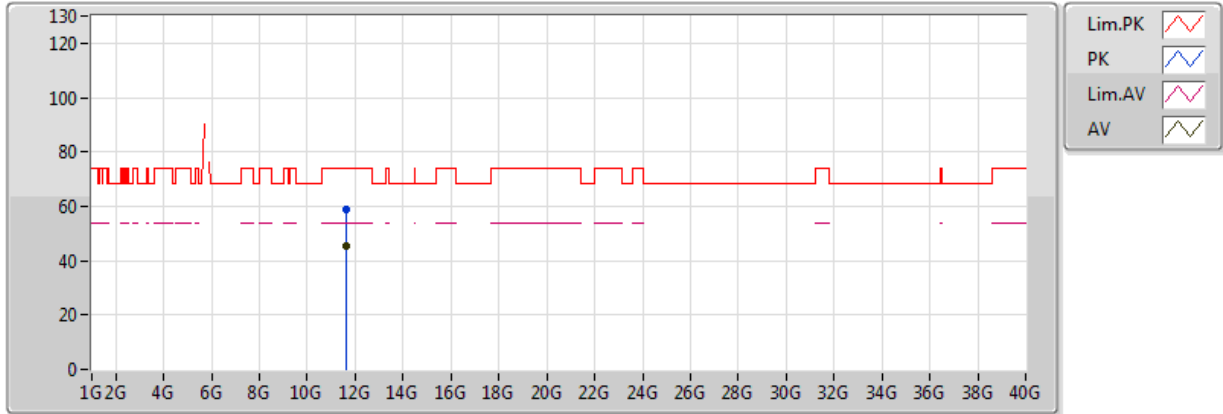
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64968G	45.35	54.00	-8.65	17.99	3	Vertical	74	1.50	-
PK	11.6475G	58.49	74.00	-15.51	17.99	3	Vertical	74	1.50	-

### HE20\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

19/01/2018



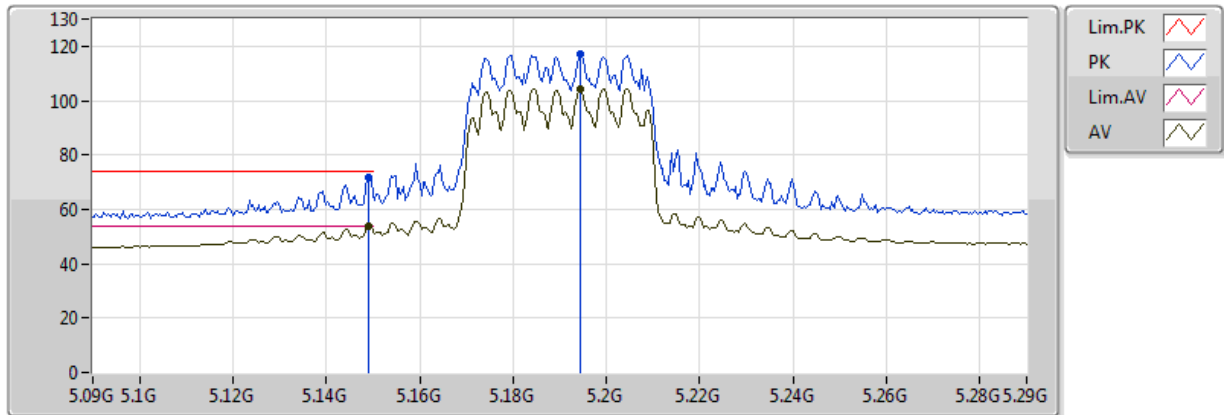
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.65182G	45.34	54.00	-8.66	17.99	3	Horizontal	268	1.40	-
PK	11.64758G	58.56	74.00	-15.44	17.99	3	Horizontal	268	1.40	-

### HE40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

20/01/2018



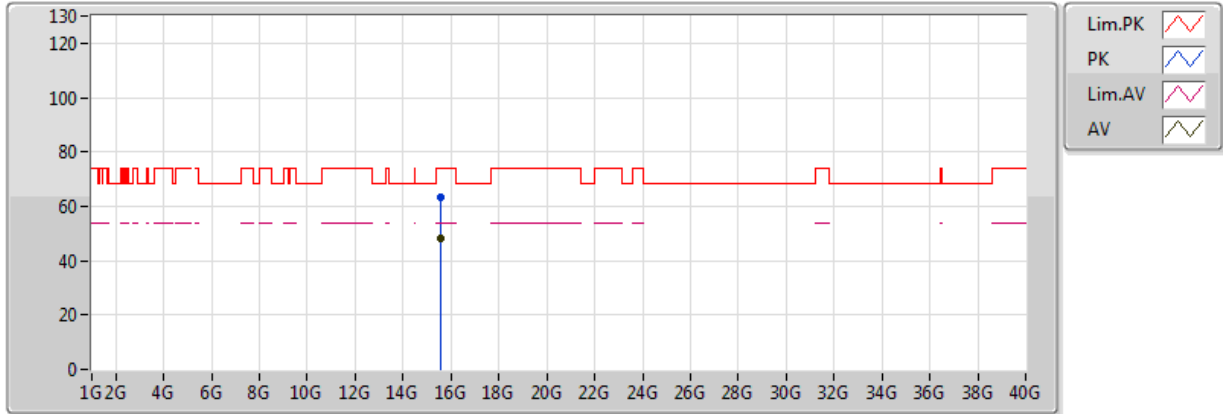
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 70  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1492G	53.69	54.00	-0.31	7.43	3	Vertical	161	2.14	-
AV	5.1944G	104.27	Inf	-Inf	7.50	3	Vertical	161	2.14	-
PK	5.1492G	71.51	74.00	-2.49	7.43	3	Vertical	161	2.14	-
PK	5.1944G	117.18	Inf	-Inf	7.50	3	Vertical	161	2.14	-

### HE40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

20/01/2018



20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

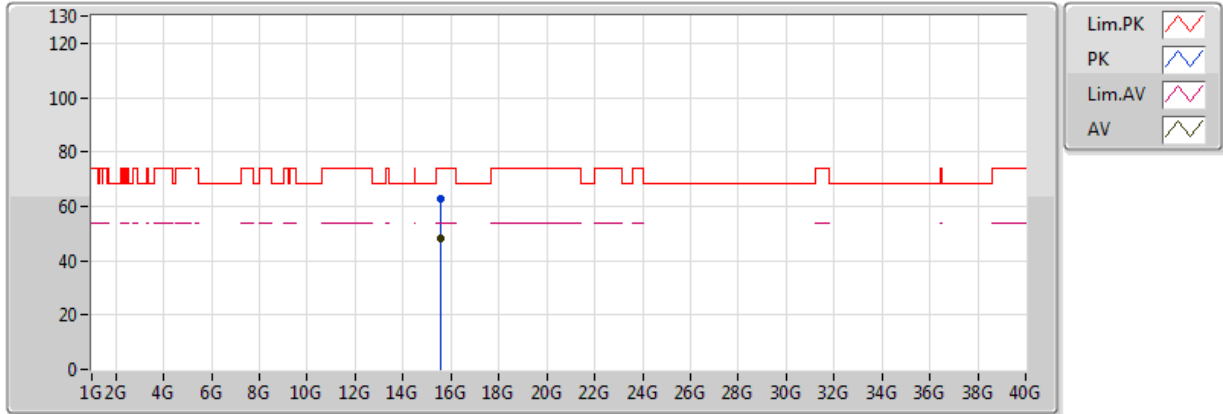
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.568G	48.35	54.00	-5.65	18.54	3	Vertical	190	1.46	-
PK	15.57398G	63.04	74.00	-10.96	18.53	3	Vertical	190	1.46	-



### HE40\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

20/01/2018



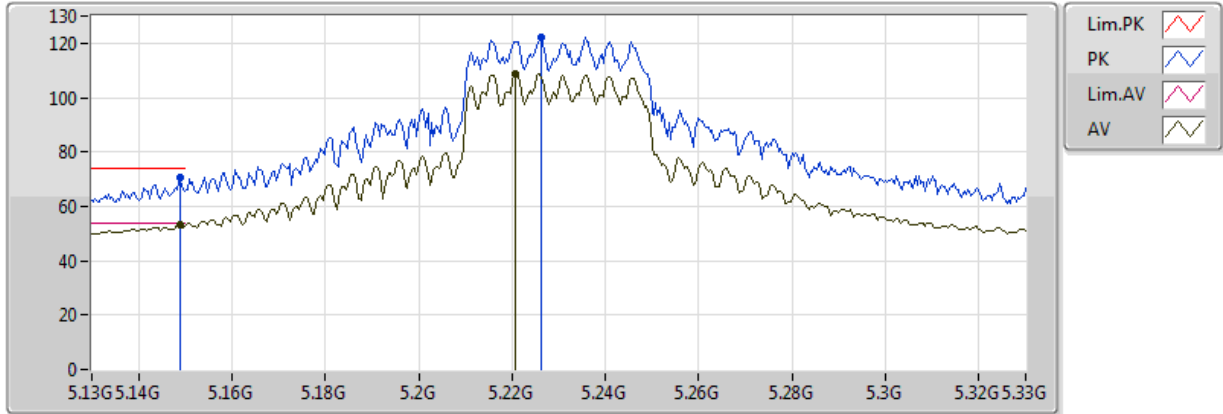
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.56568G	48.36	54.00	-5.64	18.55	3	Horizontal	160	1.01	-
PK	15.56894G	62.82	74.00	-11.18	18.54	3	Horizontal	160	1.01	-

### HE40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

20/01/2018



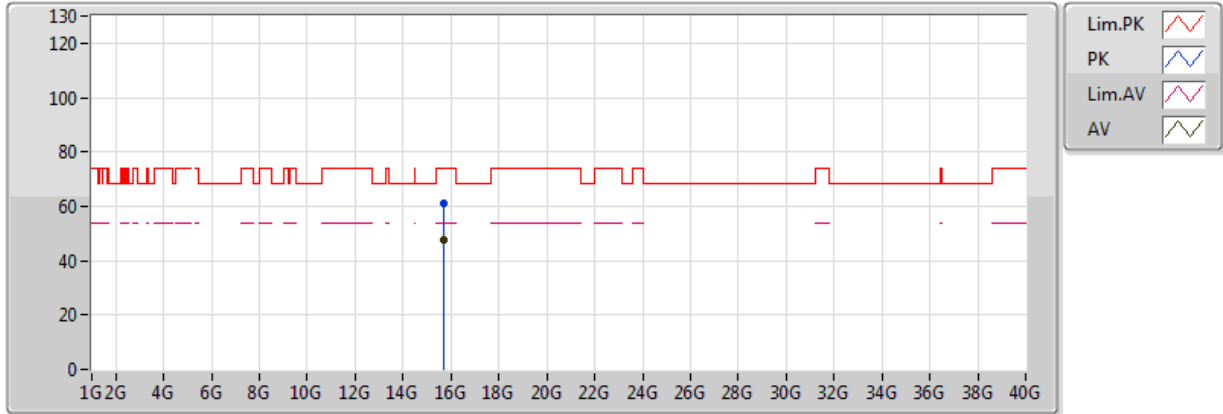
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 87  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1488G	53.36	54.00	-0.64	7.43	3	Vertical	201	2.03	-
AV	5.2208G	108.66	Inf	-Inf	7.54	3	Vertical	201	2.03	-
PK	5.1488G	70.47	74.00	-3.53	7.43	3	Vertical	201	2.03	-
PK	5.2264G	122.33	Inf	-Inf	7.55	3	Vertical	201	2.03	-

### HE40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

20/01/2018



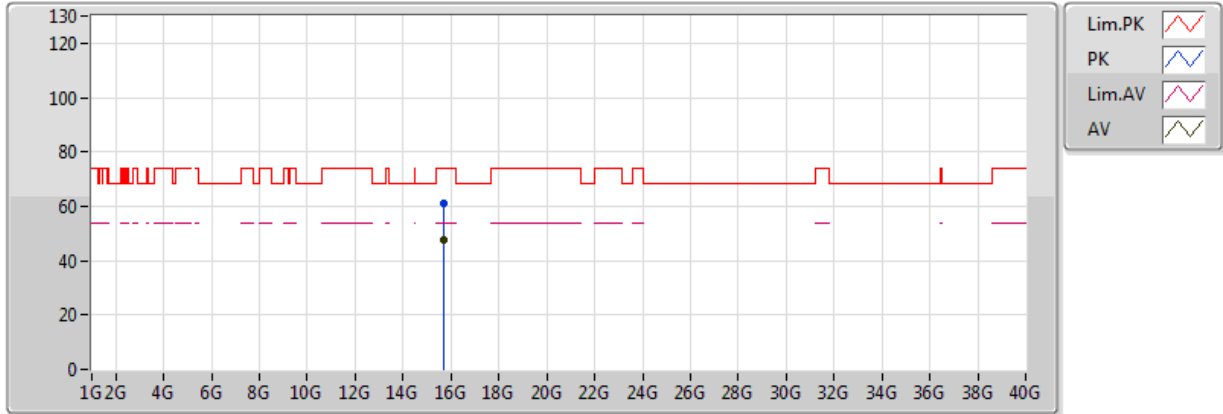
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.68522G	47.43	54.00	-6.57	18.17	3	Vertical	81	1.07	-
PK	15.68788G	61.28	74.00	-12.72	18.16	3	Vertical	81	1.07	-

### HE40\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

20/01/2018



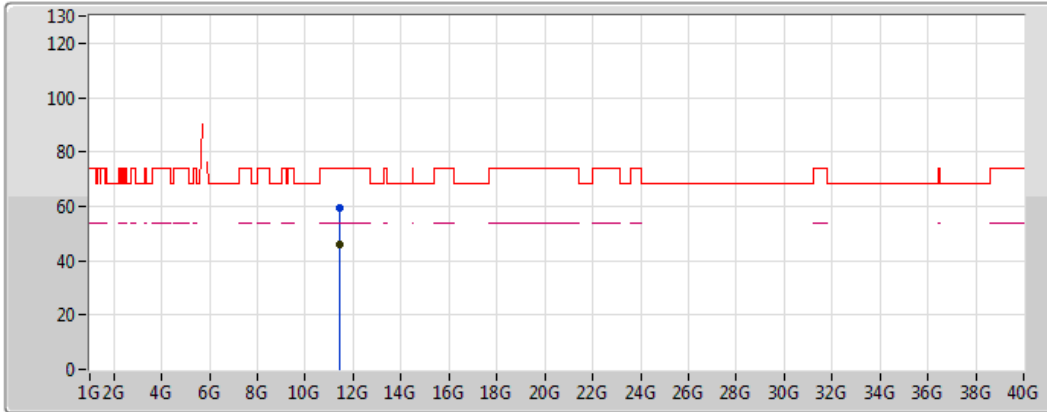
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.68504G	47.46	54.00	-6.54	18.17	3	Horizontal	16	2.16	-
PK	15.68568G	61.13	74.00	-12.87	18.17	3	Horizontal	16	2.16	-

### HE40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

20/01/2018



Legend:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink dashed line)
- AV (Black line)

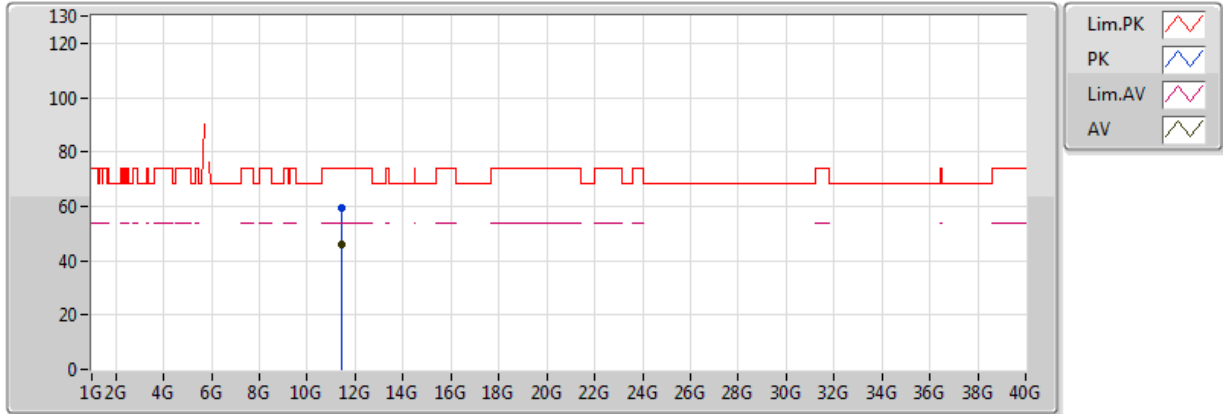
20180119  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.41678G	46.12	54.00	-7.88	18.02	3	Vertical	33	2.70	-
PK	11.41578G	59.42	74.00	-14.58	18.02	3	Vertical	33	2.70	-

### HE40\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

20/01/2018



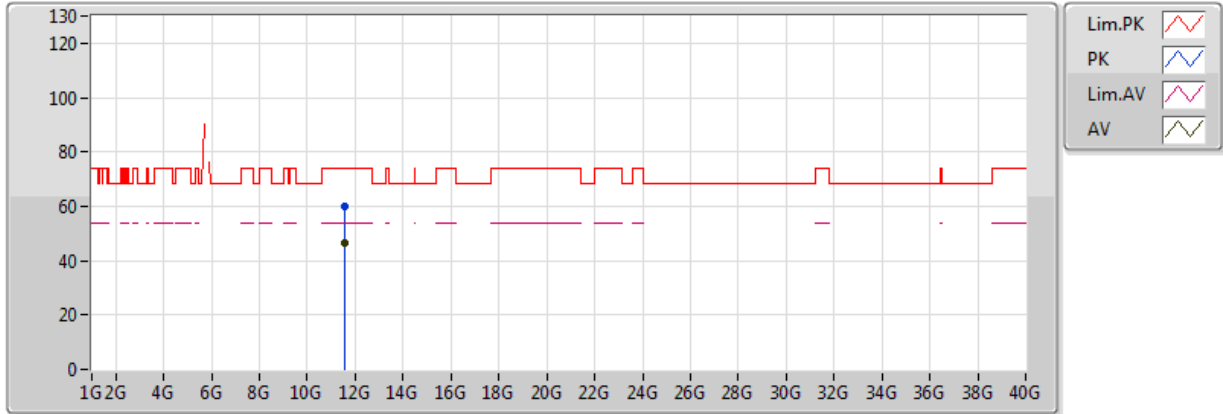
20180119  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.42298G	46.19	54.00	-7.81	18.02	3	Horizontal	26	1.50	-
PK	11.42248G	59.18	74.00	-14.82	18.02	3	Horizontal	26	1.50	-

### HE40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

20/01/2018



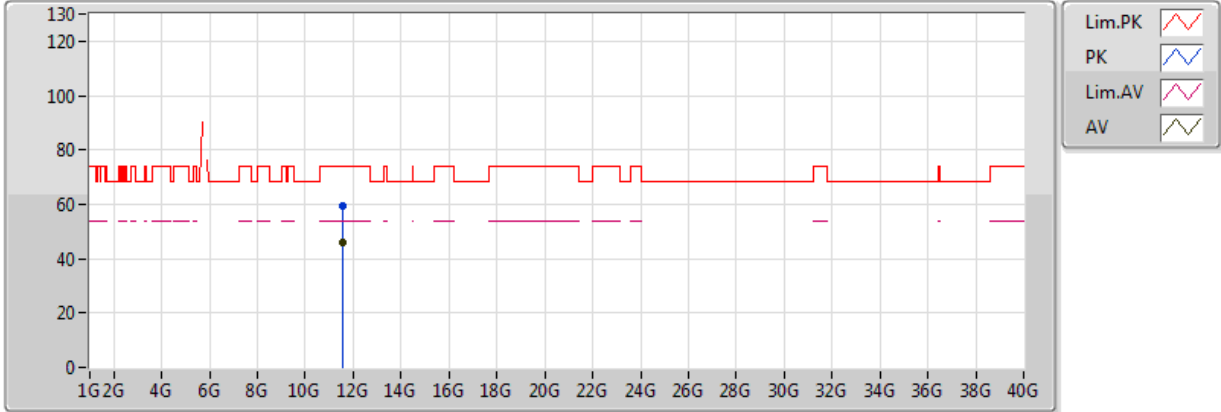
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.58708G	46.31	54.00	-7.69	18.00	3	Vertical	348	1.50	-
PK	11.58962G	59.68	74.00	-14.32	18.00	3	Vertical	348	1.50	-

### HE40\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

20/01/2018



20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

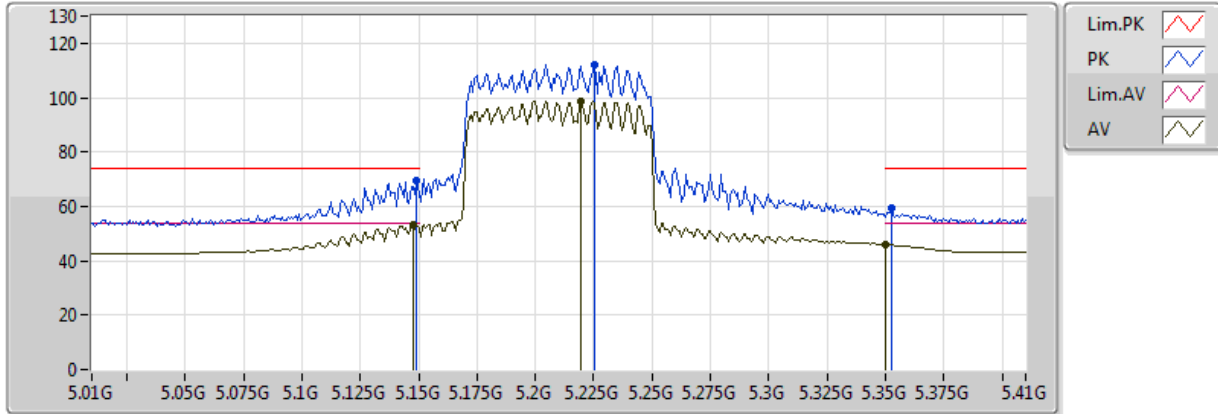
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.58804G	46.21	54.00	-7.79	18.00	3	Horizontal	296	1.50	-
PK	11.5887G	59.55	74.00	-14.45	18.00	3	Horizontal	296	1.50	-



### HE80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

26/01/2018



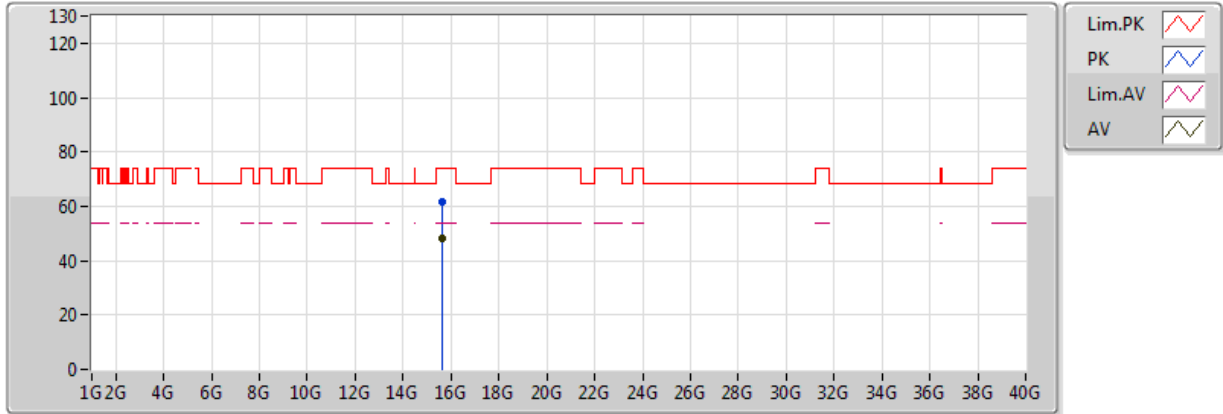
20180126  
EUT\_Z\_4\_TX\_Dipole  
Setting 72  
06-L-3-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1476G	53.19	54.00	-0.81	4.83	3	Vertical	194	1.94	-
AV	5.2196G	98.73	Inf	-Inf	4.98	3	Vertical	194	1.94	-
AV	5.350005G	45.91	54.00	-8.09	5.52	3	Vertical	194	1.94	-
PK	5.1492G	69.74	74.00	-4.26	4.83	3	Vertical	194	1.94	-
PK	5.2252G	112.21	Inf	-Inf	5.00	3	Vertical	194	1.94	-
PK	5.3524G	59.65	74.00	-14.35	5.53	3	Vertical	194	1.94	-

### HE80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

20/01/2018



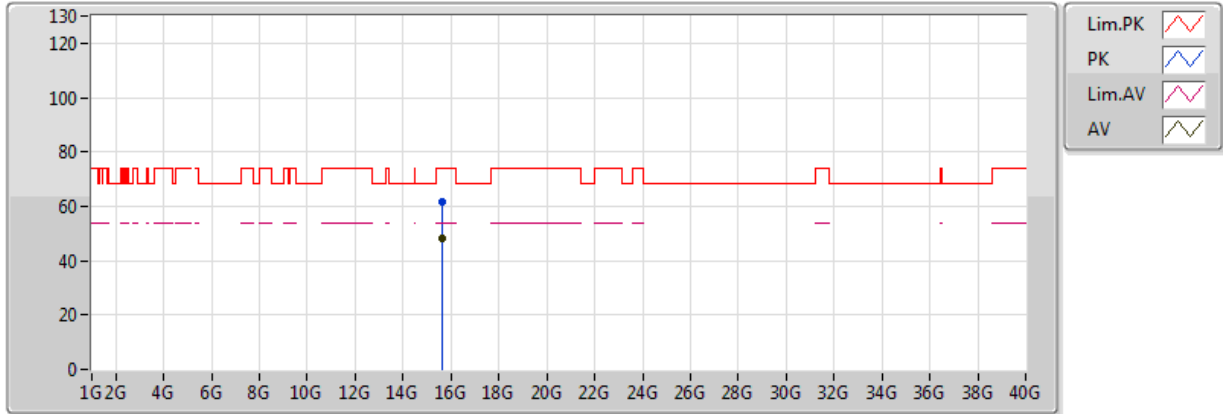
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.625G	47.99	54.00	-6.01	18.36	3	Vertical	0	1.04	-
PK	15.62514G	61.91	74.00	-12.09	18.36	3	Vertical	0	1.04	-

### HE80\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

20/01/2018



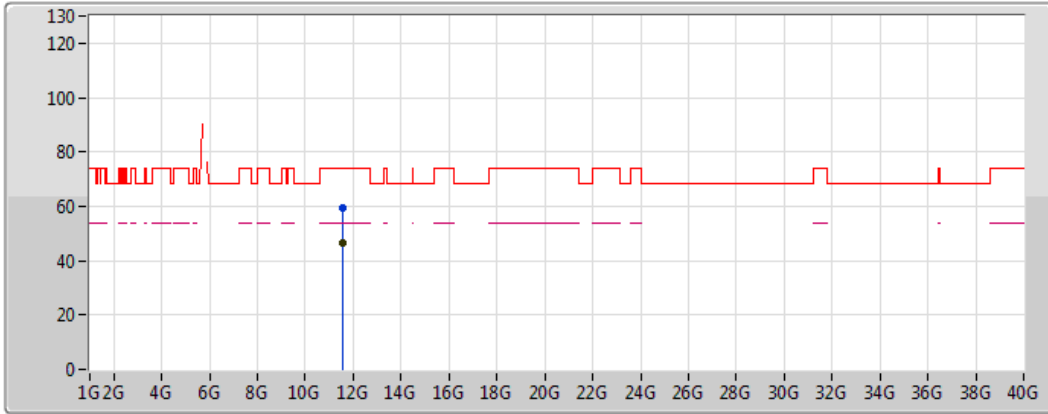
20180120  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.6252G	47.93	54.00	-6.07	18.36	3	Horizontal	133	1.50	-
PK	15.62828G	61.57	74.00	-12.43	18.35	3	Horizontal	133	1.50	-

### HE80\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

20/01/2018



Legend:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink dashed line)
- AV (Black line)

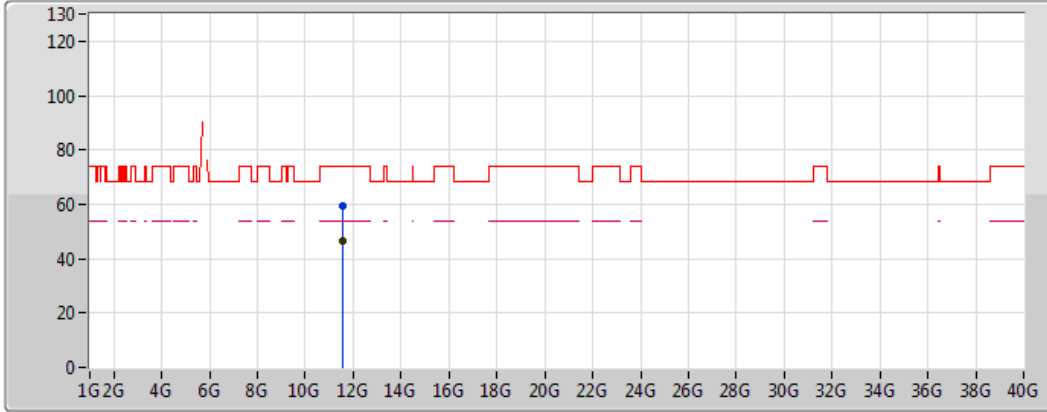
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.55312G	46.45	54.00	-7.55	18.00	3	Vertical	105	1.50	-
PK	11.55442G	59.66	74.00	-14.34	18.00	3	Vertical	105	1.50	-

### HE80\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

20/01/2018



Legend:

- Lim.PK (Red line)
- PK (Blue line)
- Lim.AV (Pink dashed line)
- AV (Black line)

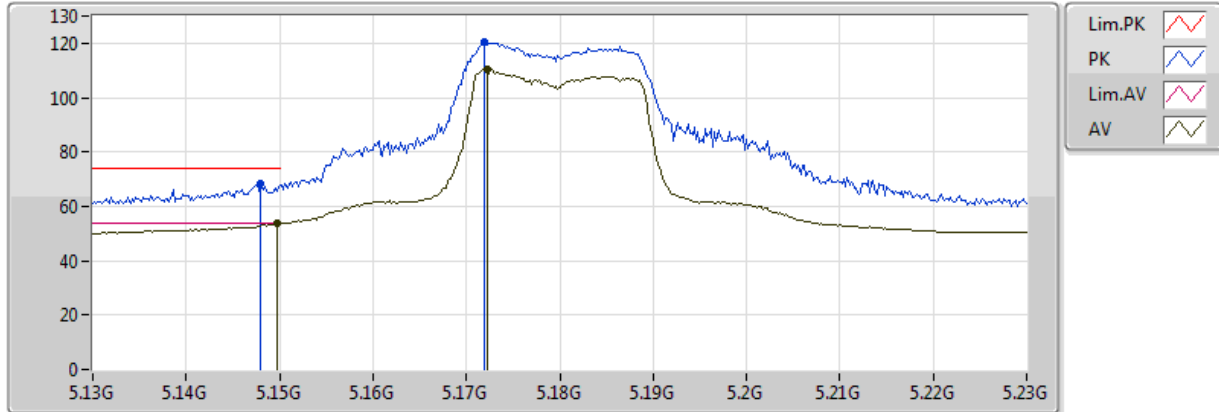
20180120  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.54814G	46.26	54.00	-7.74	18.00	3	Horizontal	105	1.50	-
PK	11.54684G	59.12	74.00	-14.88	18.00	3	Horizontal	105	1.50	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

24/01/2018



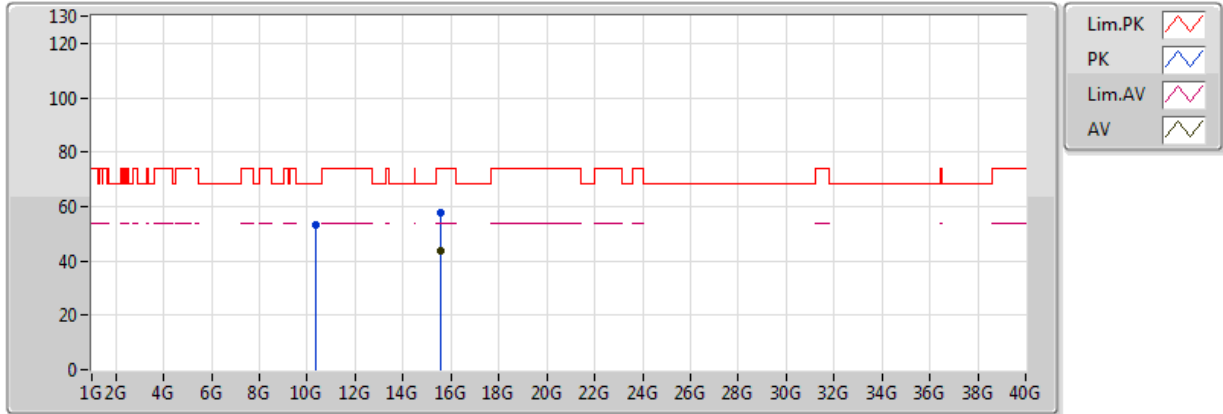
20180124  
EUT\_Z\_4TX  
Setting 79  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1498G	53.93	54.00	-0.07	9.90	3	Vertical	40	2.01	-
AV	5.1722G	110.49	Inf	-Inf	9.95	3	Vertical	40	2.01	-
PK	5.148G	68.46	74.00	-5.54	9.90	3	Vertical	40	2.01	-
PK	5.172G	120.40	Inf	-Inf	9.95	3	Vertical	40	2.01	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

24/01/2018



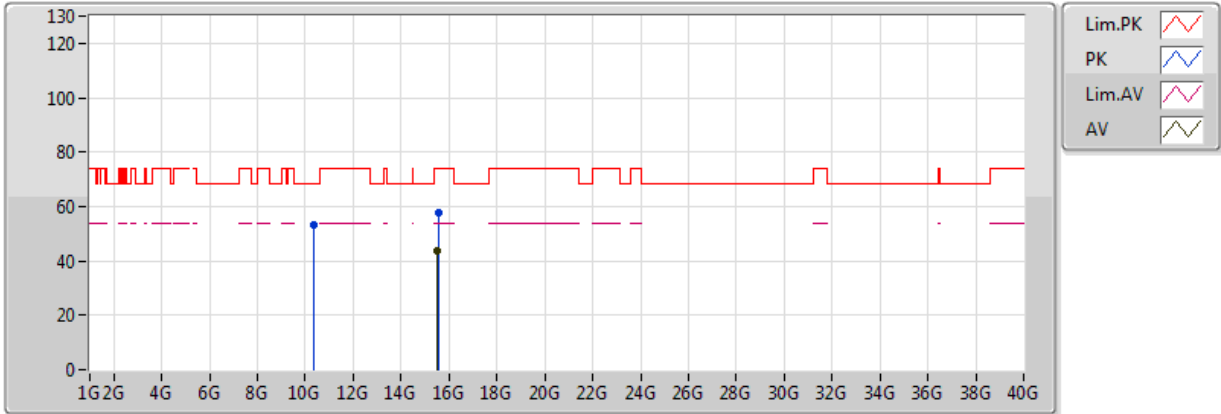
20180124  
EUT\_Z\_4TX  
Setting 79  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.54174G	43.62	54.00	-10.38	18.68	3	Vertical	241	1.98	-
PK	10.35544G	53.33	68.20	-14.87	14.71	3	Vertical	78	1.50	-
PK	15.53994G	57.93	74.00	-16.07	18.68	3	Vertical	241	1.98	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4TX  
Setting 79  
02-R-5  
FSU

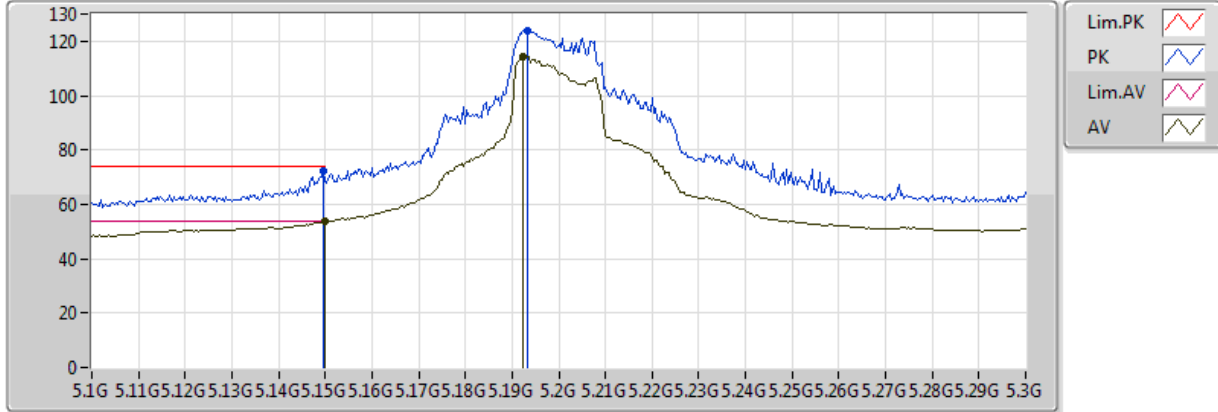
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.53568G	43.64	54.00	-10.36	18.69	3	Horizontal	357	1.11	-
PK	10.3585G	53.23	68.20	-14.97	14.71	3	Horizontal	236	1.75	-
PK	15.54876G	57.77	74.00	-16.23	18.66	3	Horizontal	357	1.11	-



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

24/01/2018



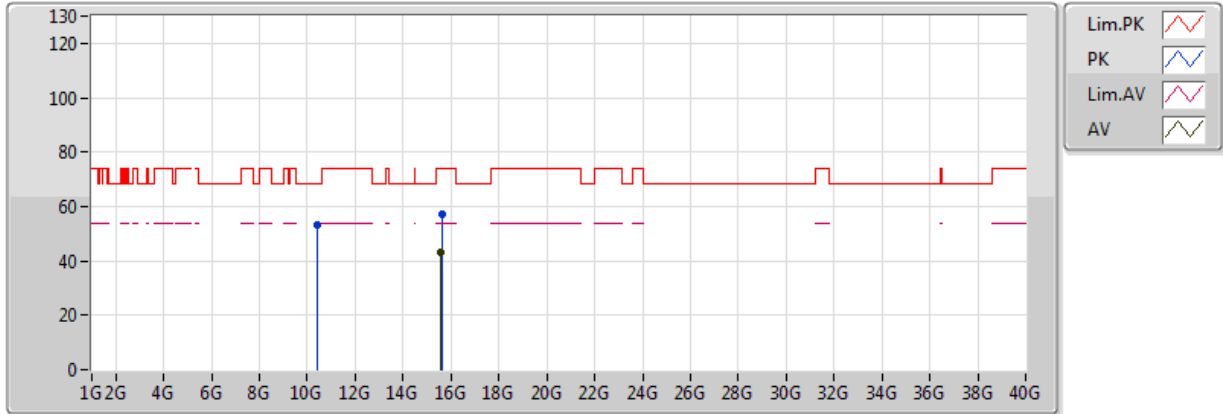
20180124  
EUT\_Z\_4TX  
Setting 94  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.84	54.00	-0.16	9.90	3	Vertical	171	1.96	-
AV	5.1924G	114.34	Inf	-Inf	10.00	3	Vertical	171	1.96	-
PK	5.1496G	72.07	74.00	-1.93	9.90	3	Vertical	171	1.96	-
PK	5.1932G	124.04	Inf	-Inf	10.00	3	Vertical	171	1.96	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

24/01/2018



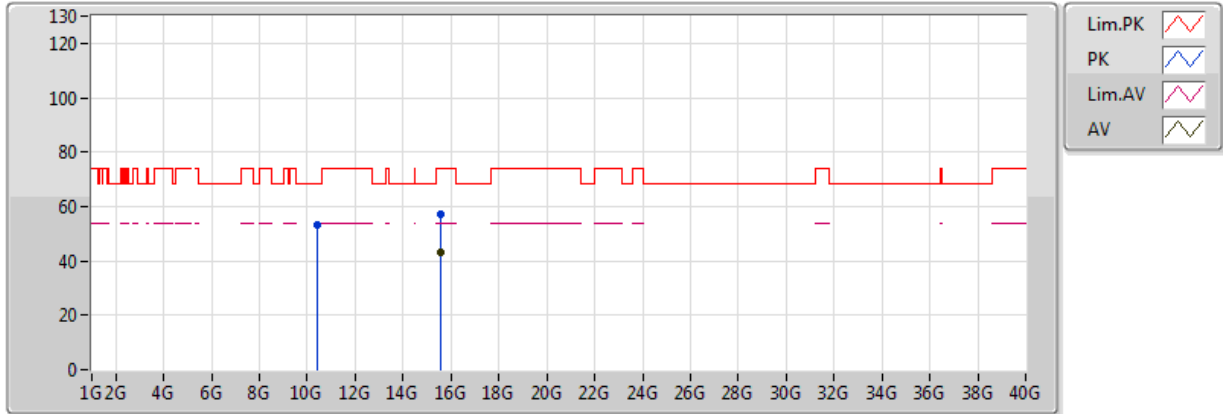
20180124  
EUT\_Z\_4TX  
Setting 94  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.58788G	43.34	54.00	-10.66	18.60	3	Vertical	198	2.00	-
PK	10.40498G	52.99	68.20	-15.21	14.72	3	Vertical	20	1.50	-
PK	15.60744G	56.90	74.00	-17.10	18.57	3	Vertical	198	2.00	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

24/01/2018



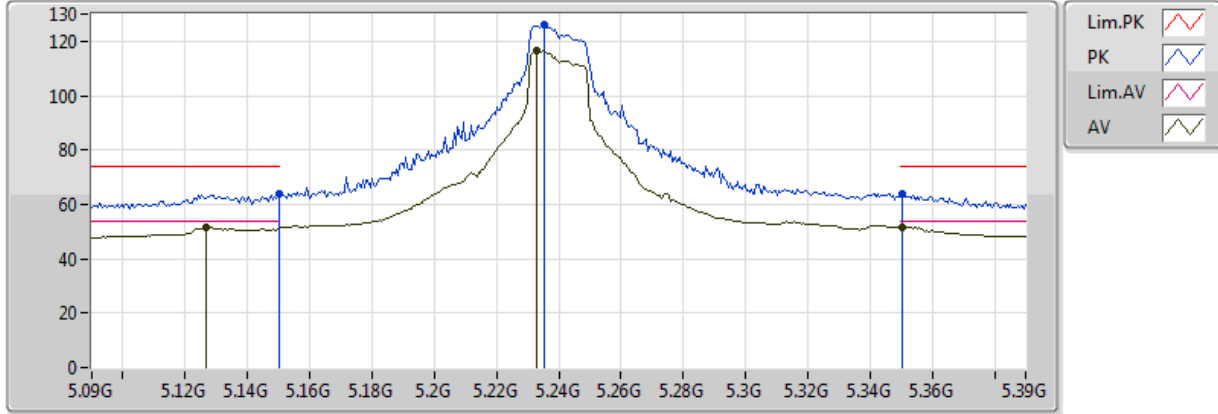
20180124  
EUT\_Z\_4TX  
Setting 94  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.58866G	43.32	54.00	-10.68	18.60	3	Horizontal	80	2.04	-
PK	10.41014G	53.28	68.20	-14.92	14.72	3	Horizontal	157	1.50	-
PK	15.59466G	57.25	74.00	-16.75	18.59	3	Horizontal	80	2.04	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

24/01/2018



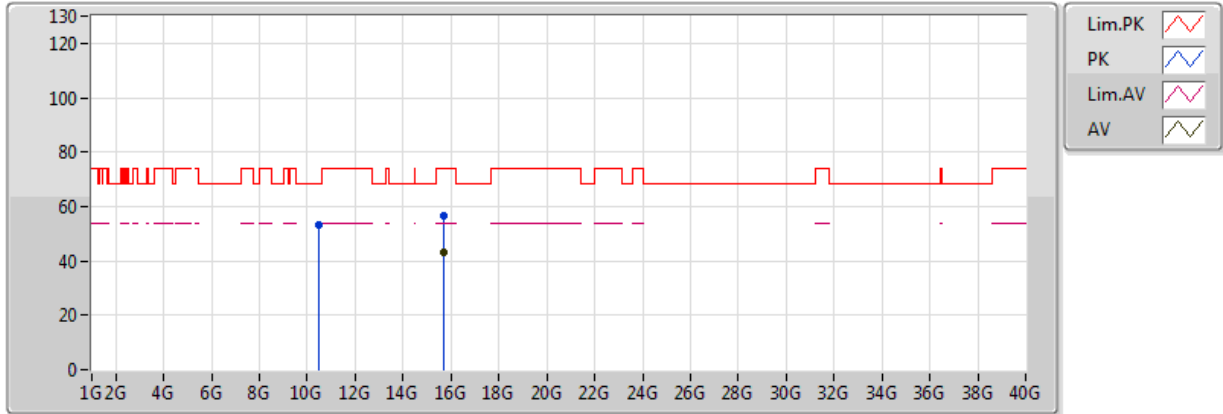
20180124  
EUT\_Z\_4TX  
Setting 100  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1266G	51.51	54.00	-2.49	9.84	3	Vertical	160	1.92	-
AV	5.2328G	116.34	Inf	-Inf	10.22	3	Vertical	160	1.92	-
AV	5.3504G	51.57	54.00	-2.43	10.95	3	Vertical	160	1.92	-
PK	5.149995G	63.87	74.00	-10.13	9.90	3	Vertical	160	1.92	-
PK	5.2352G	125.86	Inf	-Inf	10.24	3	Vertical	160	1.92	-
PK	5.3504G	63.61	74.00	-10.39	10.95	3	Vertical	160	1.92	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

24/01/2018



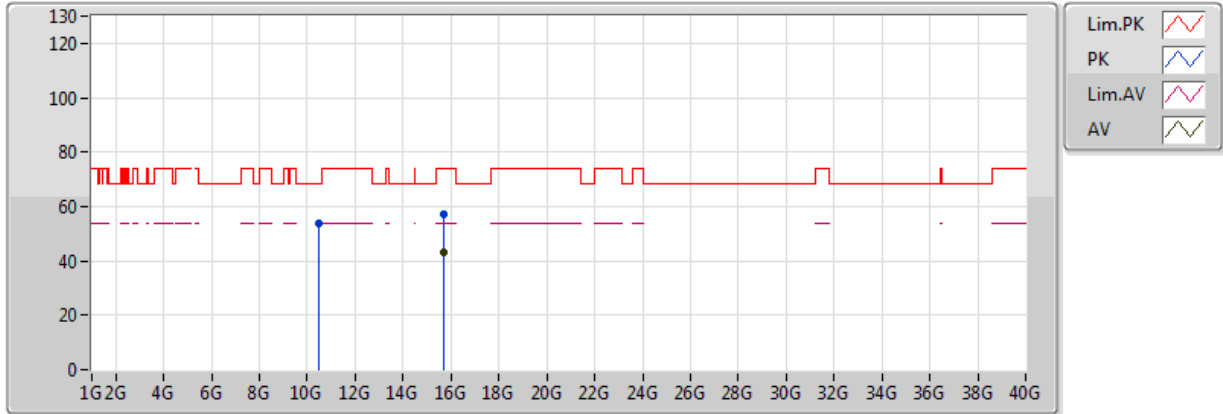
20180124  
EUT\_Z\_4TX  
Setting 100  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.70932G	43.23	54.00	-10.77	18.40	3	Vertical	123	1.99	-
PK	10.48354G	52.99	68.20	-15.21	14.72	3	Vertical	280	1.03	-
PK	15.7113G	56.78	74.00	-17.22	18.39	3	Vertical	123	1.99	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

24/01/2018



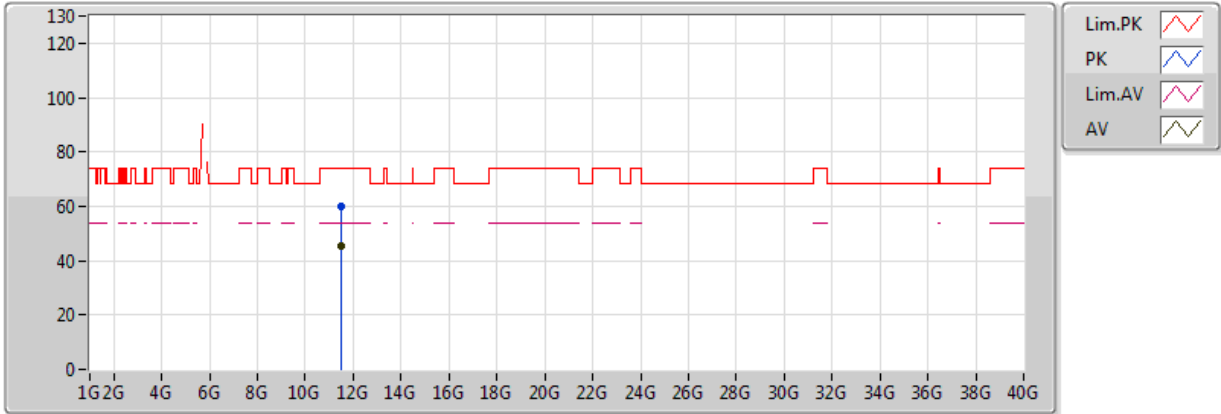
20180124  
EUT\_Z\_4TX  
Setting 100  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.7113G	43.30	54.00	-10.70	18.39	3	Horizontal	177	2.22	-
PK	10.4917G	53.79	68.20	-14.41	14.72	3	Horizontal	298	1.59	-
PK	15.71442G	57.41	74.00	-16.59	18.39	3	Horizontal	177	2.22	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

24/01/2018



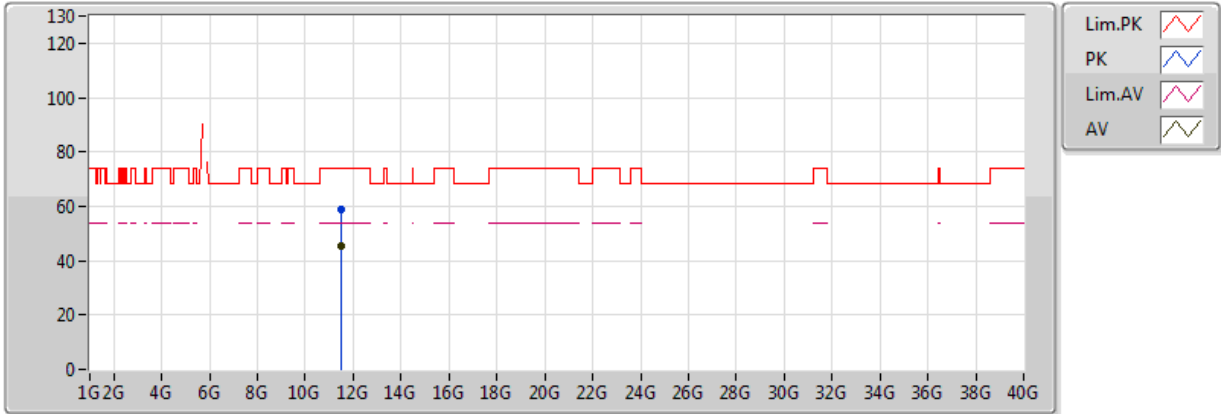
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.48708G	45.36	54.00	-8.64	18.01	3	Vertical	8	1.88	-
PK	11.4876G	59.68	74.00	-14.32	18.01	3	Vertical	8	1.88	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

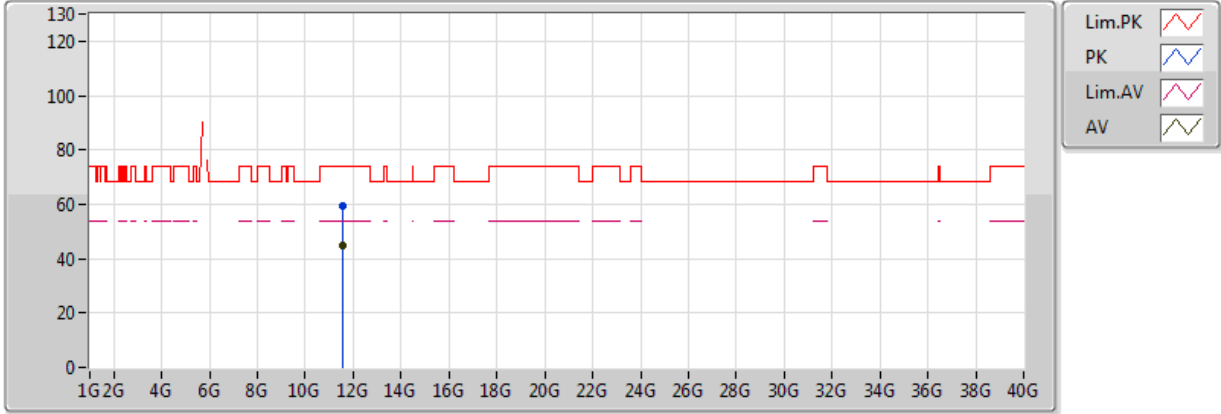
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.4896G	45.34	54.00	-8.66	18.01	3	Horizontal	73	1.50	-
PK	11.4859G	59.05	74.00	-14.95	18.01	3	Horizontal	73	1.50	-



### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

24/01/2018



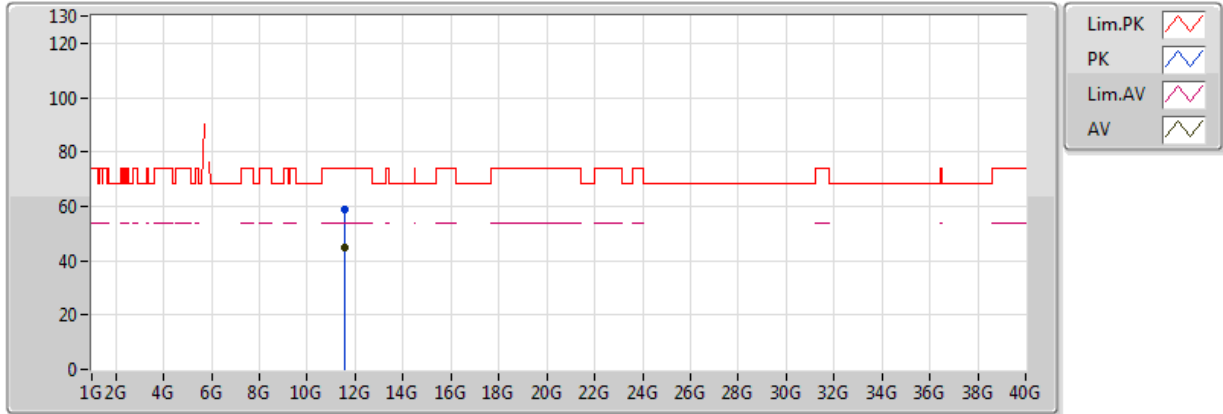
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56524G	44.73	54.00	-9.27	18.00	3	Vertical	293	2.91	-
PK	11.56622G	59.61	74.00	-14.39	18.00	3	Vertical	293	2.91	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

24/01/2018



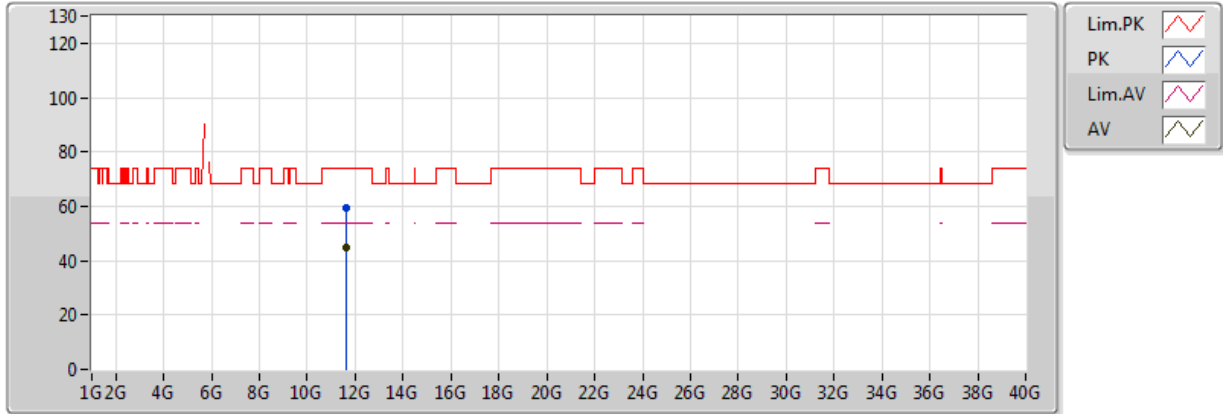
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56524G	44.71	54.00	-9.29	18.00	3	Horizontal	43	1.65	-
PK	11.57052G	58.87	74.00	-15.13	18.00	3	Horizontal	43	1.65	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

24/01/2018



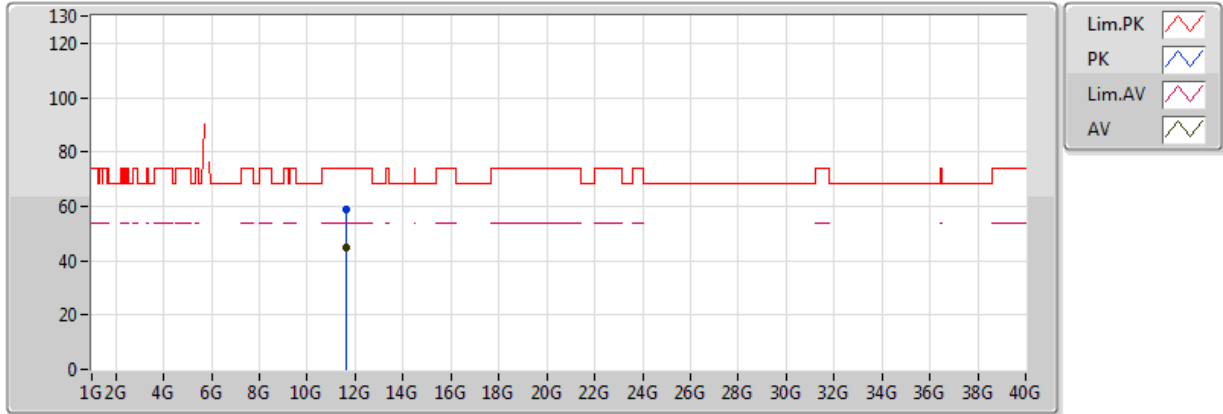
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64932G	44.90	54.00	-9.10	17.99	3	Vertical	145	1.50	-
PK	11.65148G	59.48	74.00	-14.52	17.99	3	Vertical	145	1.50	-

### 802.11ac VHT20-BF\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

24/01/2018



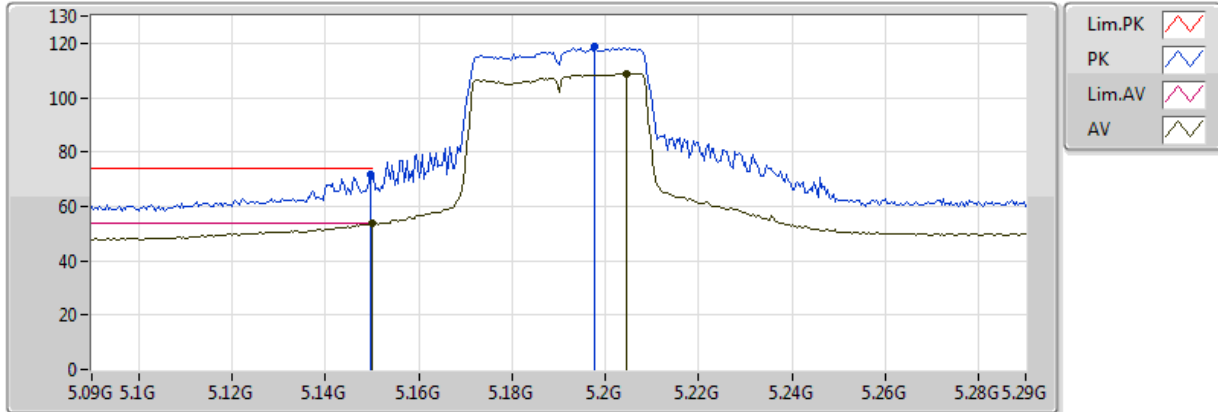
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64778G	44.86	54.00	-9.14	17.99	3	Horizontal	139	2.89	-
PK	11.64818G	58.65	74.00	-15.35	17.99	3	Horizontal	139	2.89	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

25/01/2018



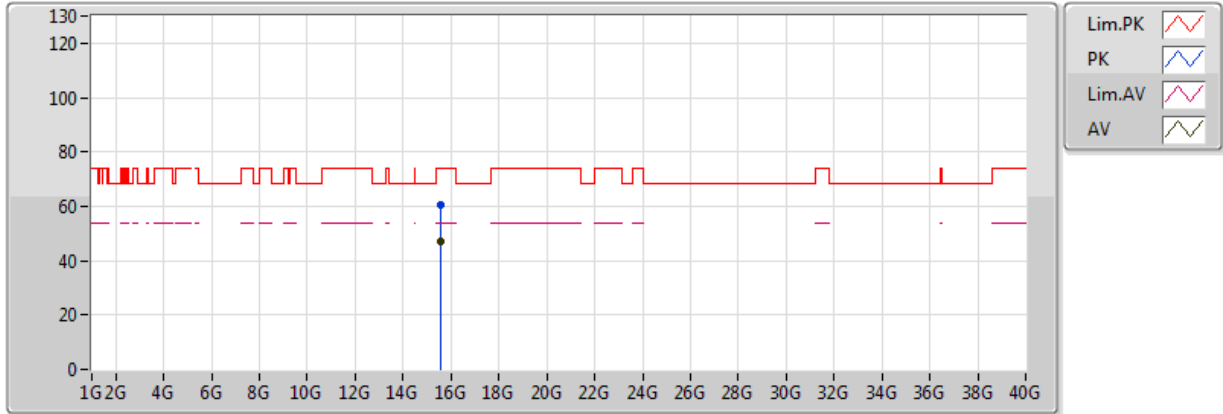
20180125  
EUT\_Z\_4TX  
Setting 69  
01-W-4-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.82	54.00	-0.18	4.83	3	Vertical	163	2.11	-
AV	5.2044G	108.96	Inf	-Inf	4.91	3	Vertical	163	2.11	-
PK	5.1496G	71.48	74.00	-2.52	4.83	3	Vertical	163	2.11	-
PK	5.1976G	118.63	Inf	-Inf	4.89	3	Vertical	163	2.11	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

25/01/2018



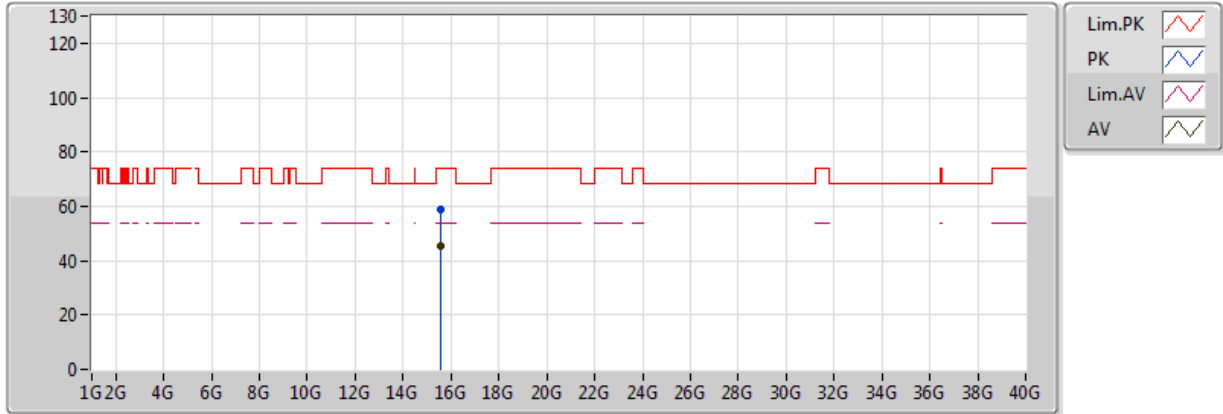
20180125  
EUT\_Z\_4TX  
Setting 69  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.5741G	46.84	54.00	-7.16	15.86	3	Vertical	305	1.50	-
PK	15.5689G	60.38	74.00	-13.62	15.86	3	Vertical	305	1.50	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

25/01/2018



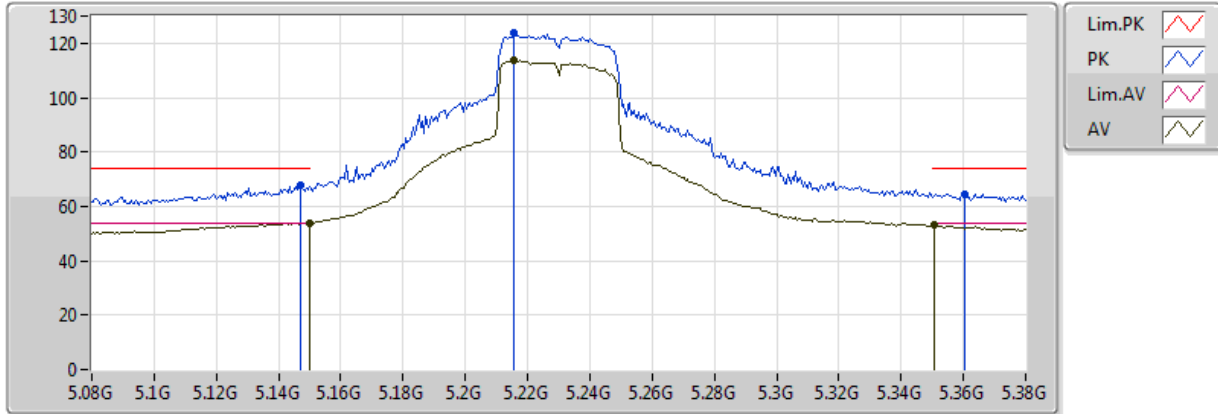
20180125  
EUT\_Z\_4TX  
Setting 69  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.5729G	45.50	54.00	-8.50	15.86	3	Horizontal	278	1.50	-
PK	15.57206G	58.62	74.00	-15.38	15.86	3	Horizontal	278	1.50	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

25/01/2018



20180125  
EUT\_Z\_4TX  
Setting 86  
01-W-4-10  
FSP

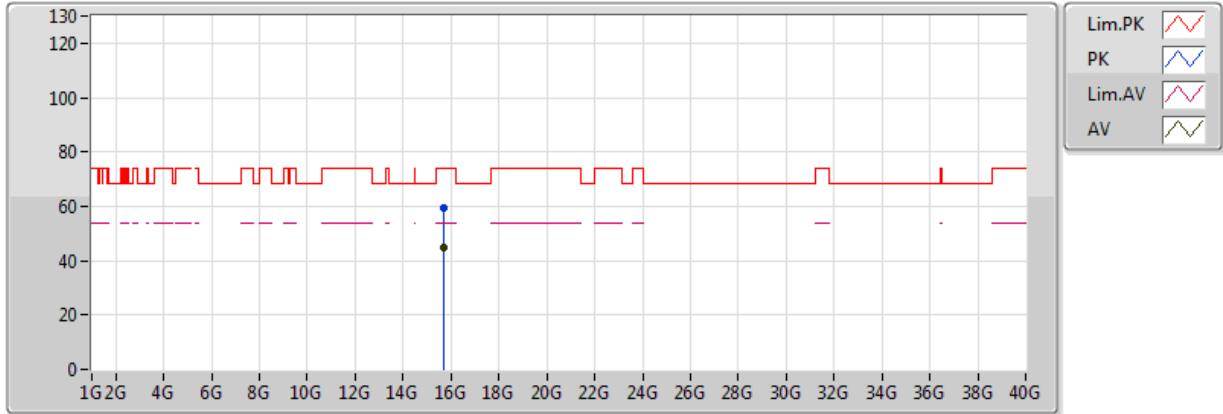
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.95	54.00	-0.05	4.83	3	Vertical	164	1.96	-
AV	5.2156G	113.60	Inf	-Inf	4.96	3	Vertical	164	1.96	-
AV	5.3506G	52.99	54.00	-1.01	5.52	3	Vertical	164	1.96	-
PK	5.1472G	67.85	74.00	-6.15	4.83	3	Vertical	164	1.96	-
PK	5.2156G	123.68	Inf	-Inf	4.96	3	Vertical	164	1.96	-
PK	5.3602G	64.59	74.00	-9.41	5.56	3	Vertical	164	1.96	-



### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

25/01/2018



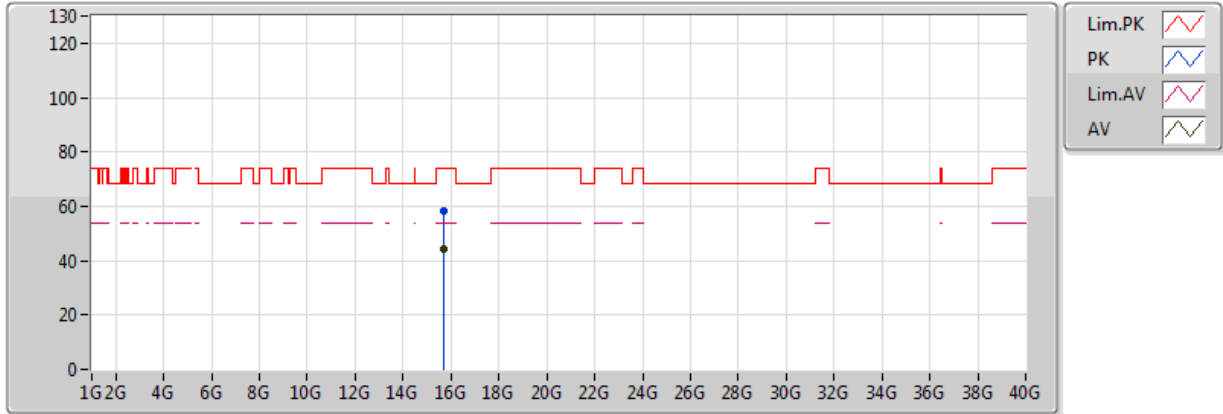
20180125  
EUT\_Z\_4TX  
Setting 86  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.69166G	45.08	54.00	-8.92	15.67	3	Vertical	192	1.50	-
PK	15.6912G	59.30	74.00	-14.70	15.68	3	Vertical	192	1.50	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

25/01/2018



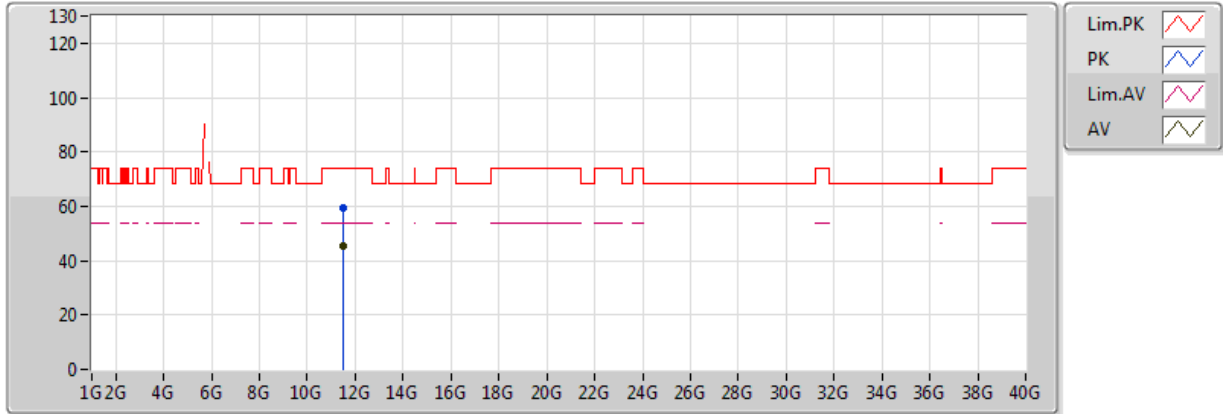
20180125  
EUT\_Z\_4TX  
Setting 86  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.68948G	44.45	54.00	-9.55	15.68	3	Horizontal	16	1.50	-
PK	15.6855G	58.12	74.00	-15.88	15.68	3	Horizontal	16	1.50	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

24/01/2018



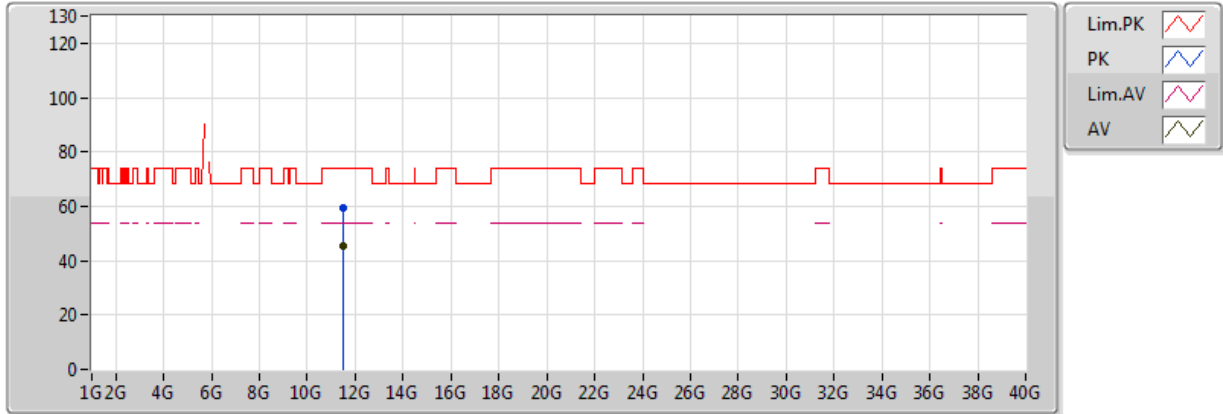
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 90  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50554G	45.40	54.00	-8.60	18.01	3	Vertical	308	1.50	-
PK	11.50566G	59.65	74.00	-14.35	18.01	3	Vertical	308	1.50	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

24/01/2018



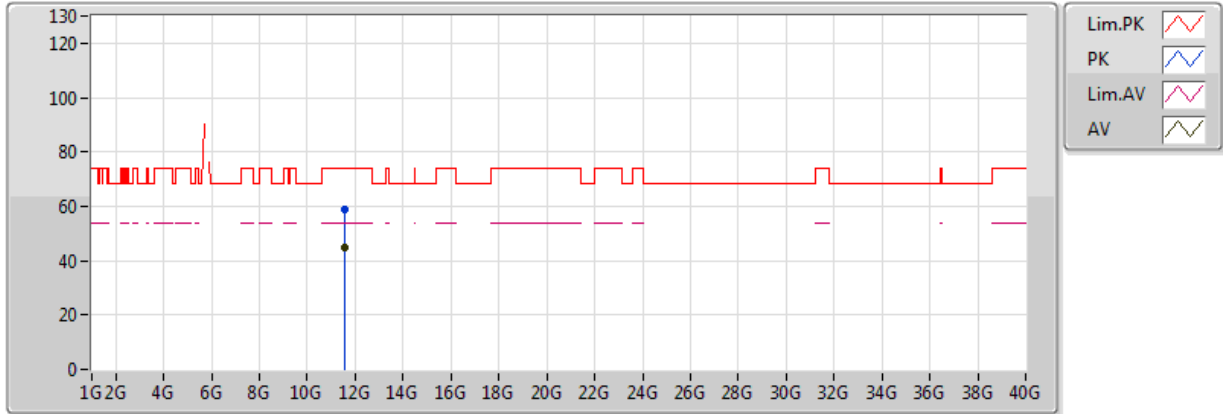
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 90  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50558G	45.41	54.00	-8.59	18.01	3	Horizontal	315	1.24	-
PK	11.50628G	59.54	74.00	-14.46	18.01	3	Horizontal	315	1.24	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

24/01/2018



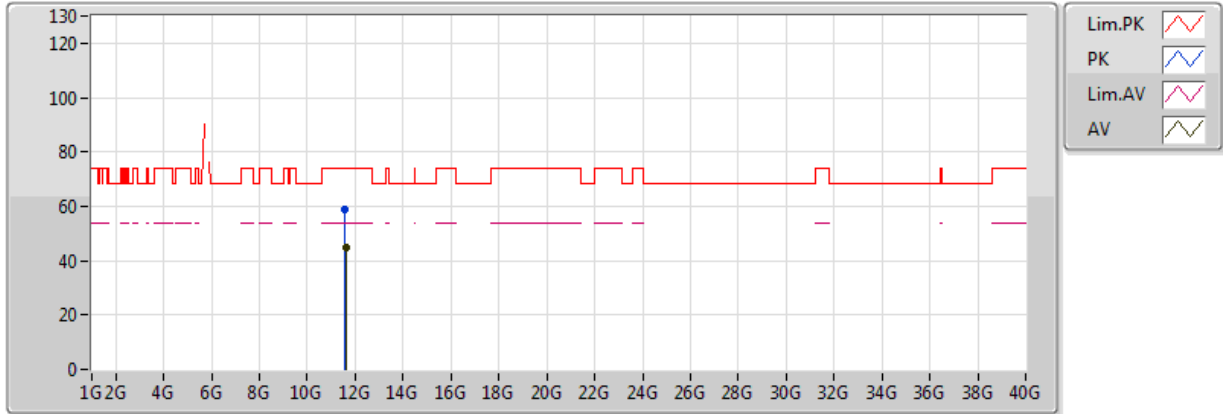
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.5873G	58.72	74.00	-15.28	18.00	3	Vertical	309	1.50	-
AV	11.58954G	44.65	54.00	-9.35	18.00	3	Vertical	309	1.50	-

### 802.11ac VHT40-BF\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

24/01/2018



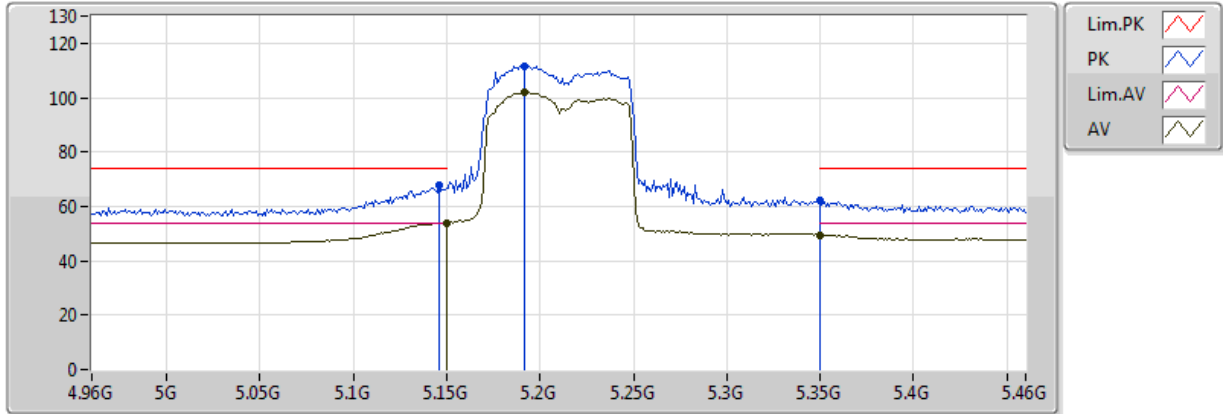
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.58784G	58.66	74.00	-15.34	18.00	3	Horizontal	76	1.50	-
AV	11.59466G	44.66	54.00	-9.34	18.00	3	Horizontal	76	1.50	-

### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

24/01/2018



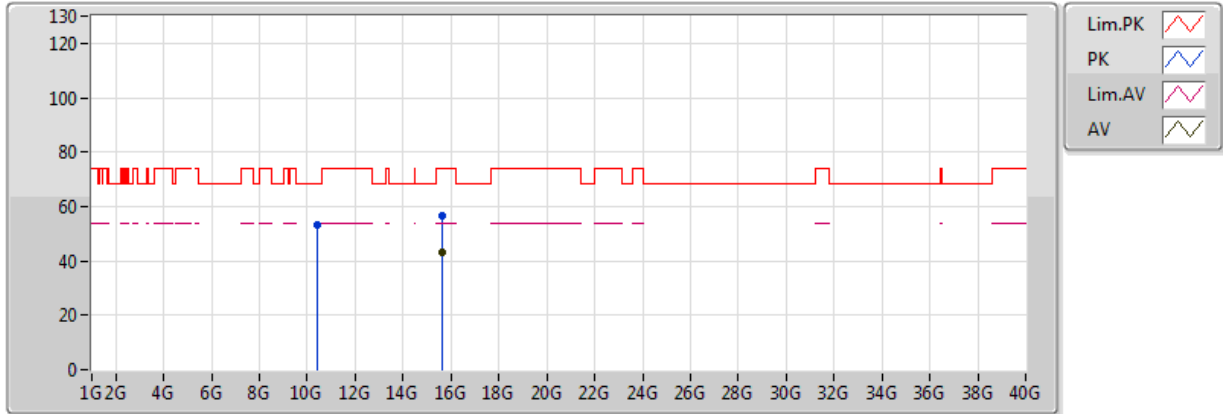
20180124  
EUT\_Z\_4TX  
Setting 67  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.99	54.00	-0.01	9.90	3	Vertical	57	2.31	-
AV	5.192G	101.93	Inf	-Inf	10.00	3	Vertical	57	2.31	-
AV	5.350005G	49.57	54.00	-4.43	10.95	3	Vertical	57	2.31	-
PK	5.146G	67.65	74.00	-6.35	9.89	3	Vertical	57	2.31	-
PK	5.192G	111.76	Inf	-Inf	10.00	3	Vertical	57	2.31	-
PK	5.350005G	62.09	74.00	-11.91	10.95	3	Vertical	57	2.31	-

### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4TX  
Setting 67  
02-R-5  
FSU

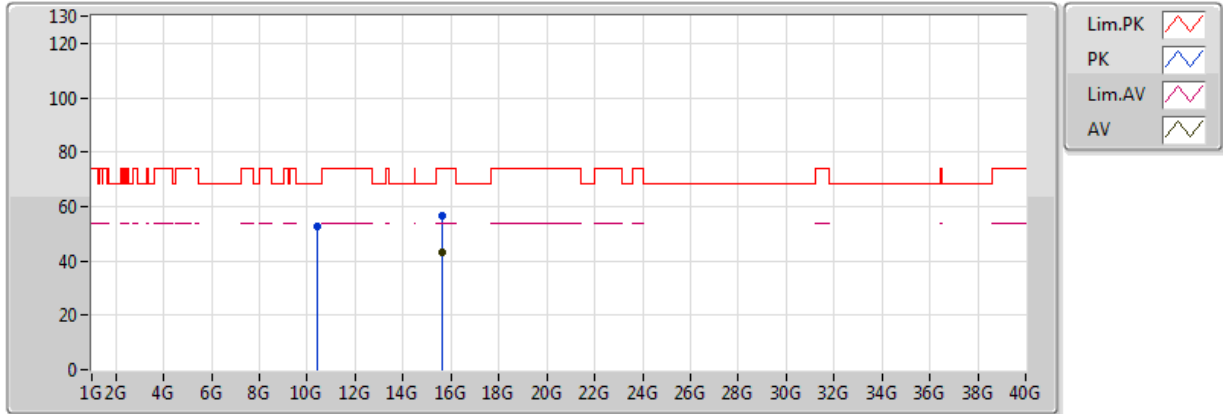
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.62082G	43.16	54.00	-10.84	18.54	3	Vertical	216	2.03	-
PK	10.41982G	53.37	68.20	-14.83	14.72	3	Vertical	275	1.20	-
PK	15.63078G	56.84	74.00	-17.16	18.53	3	Vertical	216	2.03	-



### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

24/01/2018



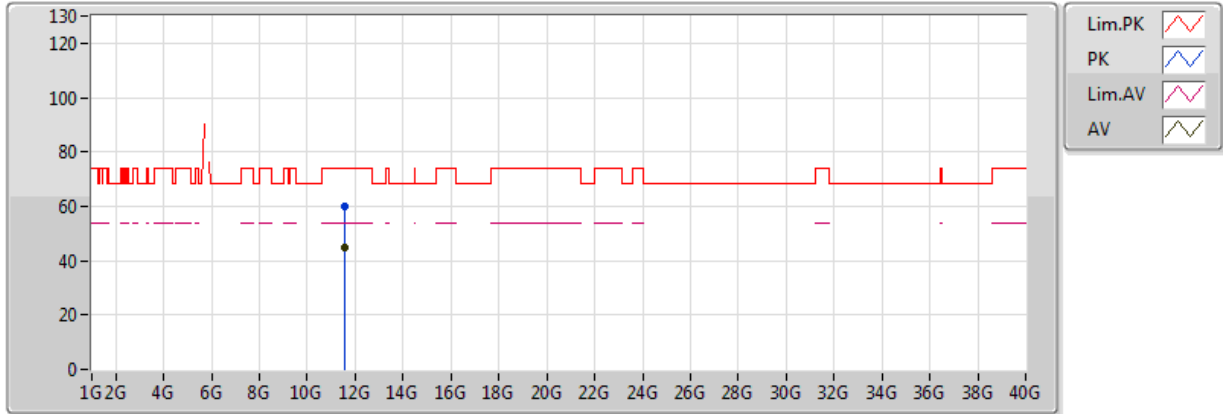
20180124  
EUT\_Z\_4TX  
Setting 67  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.61794G	43.12	54.00	-10.88	18.55	3	Horizontal	327	1.24	-
PK	10.42918G	52.88	68.20	-15.32	14.72	3	Horizontal	247	1.50	-
PK	15.6378G	56.72	74.00	-17.28	18.51	3	Horizontal	327	1.24	-

### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

24/01/2018



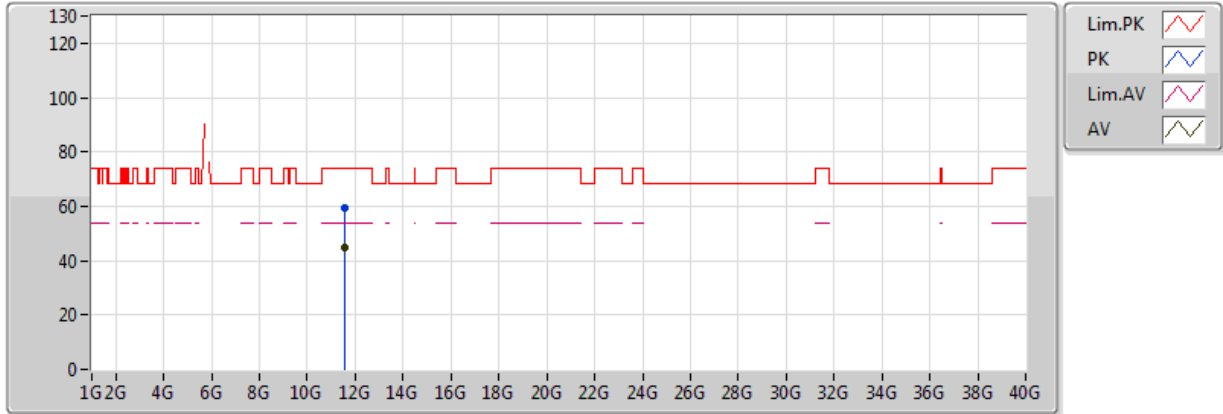
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 85  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.54642G	45.00	54.00	-9.00	18.00	3	Vertical	113	1.50	-
PK	11.54766G	59.88	74.00	-14.12	18.00	3	Vertical	113	1.50	-

### 802.11ac VHT80-BF\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

24/01/2018



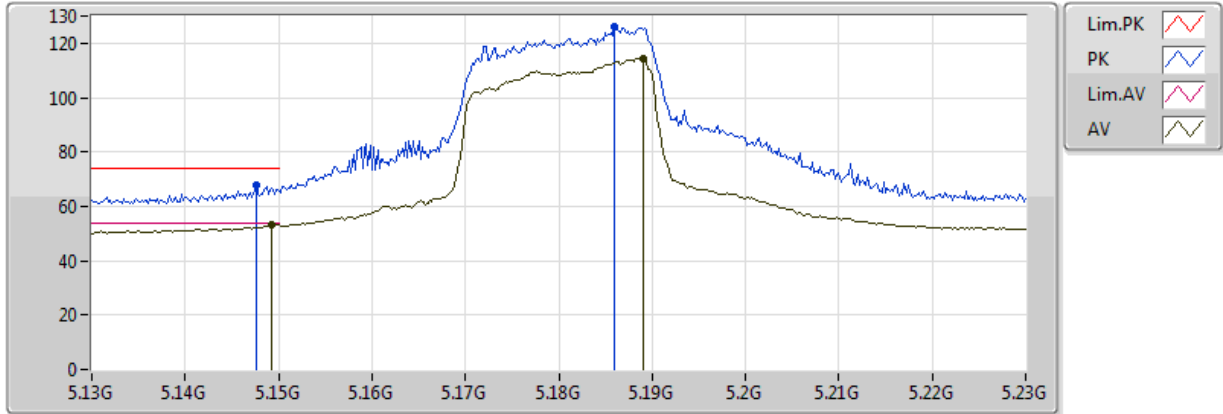
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 85  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.54598G	44.98	54.00	-9.02	18.00	3	Horizontal	0	2.60	-
PK	11.54674G	59.65	74.00	-14.35	18.00	3	Horizontal	0	2.60	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

24/01/2018



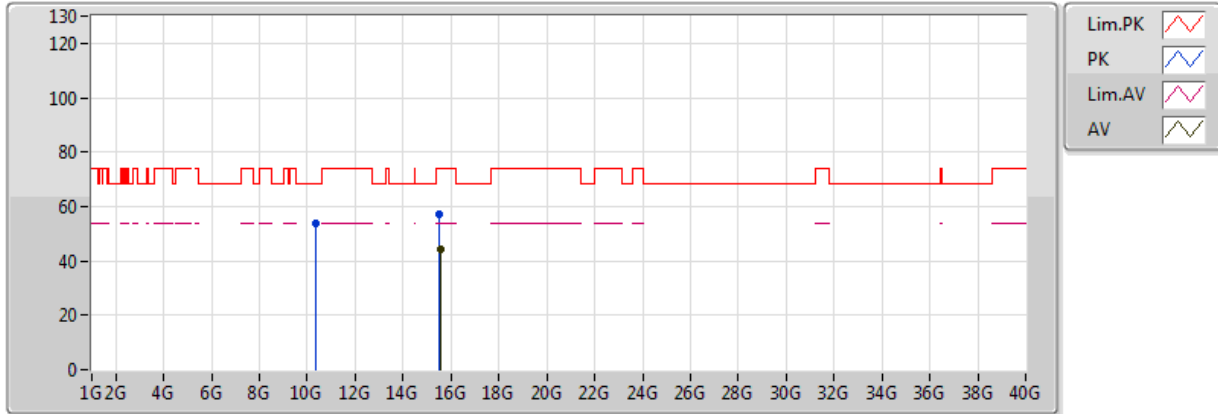
20180124  
EUT\_Z\_4TX  
Setting 77  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1492G	53.51	54.00	-0.49	9.90	3	Vertical	273	2.67	-
AV	5.189G	114.55	Inf	-Inf	9.99	3	Vertical	273	2.67	-
PK	5.1476G	67.73	74.00	-6.27	9.89	3	Vertical	273	2.67	-
PK	5.186G	126.18	Inf	-Inf	9.99	3	Vertical	273	2.67	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

24/01/2018



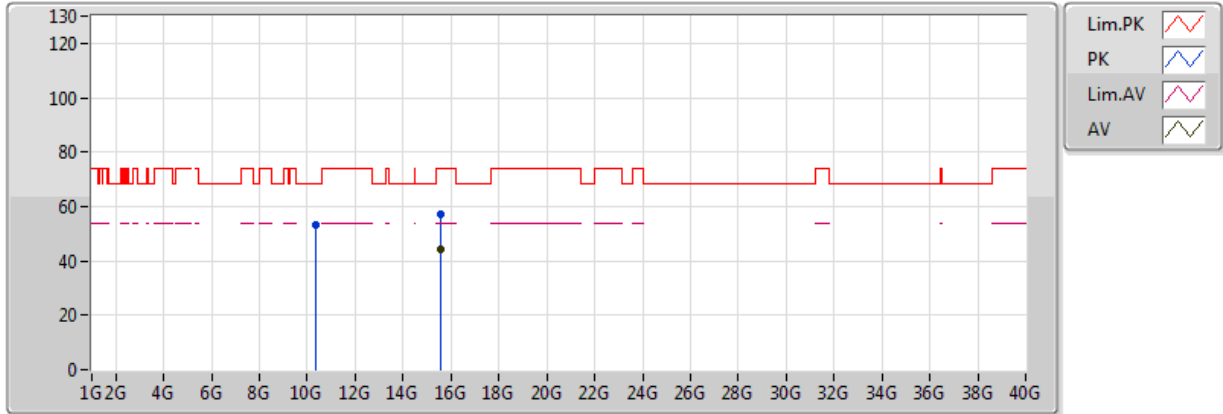
20180124  
EUT\_Z\_4TX  
Setting 77  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.54024G	44.04	54.00	-9.96	18.68	3	Vertical	199	2.17	-
PK	10.35916G	53.67	68.20	-14.53	14.71	3	Vertical	305	1.50	-
PK	15.53028G	57.18	74.00	-16.82	18.69	3	Vertical	199	2.17	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5180MHz\_TX

24/01/2018



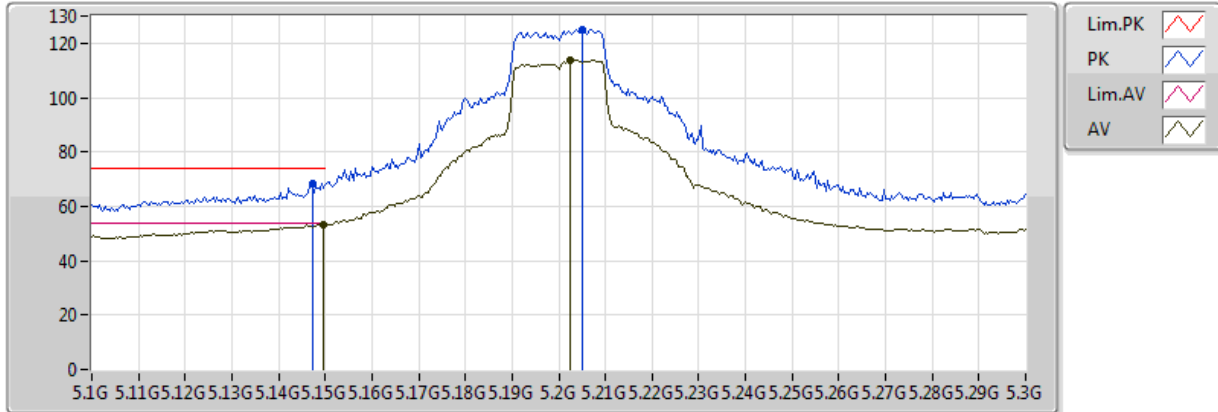
20180124  
EUT\_Z\_4TX  
Setting 77  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.54012G	43.99	54.00	-10.01	18.68	3	Horizontal	161	1.59	-
PK	10.36072G	53.37	68.20	-14.83	14.71	3	Horizontal	284	1.50	-
PK	15.54884G	57.29	74.00	-16.71	18.66	3	Horizontal	161	1.59	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

24/01/2018



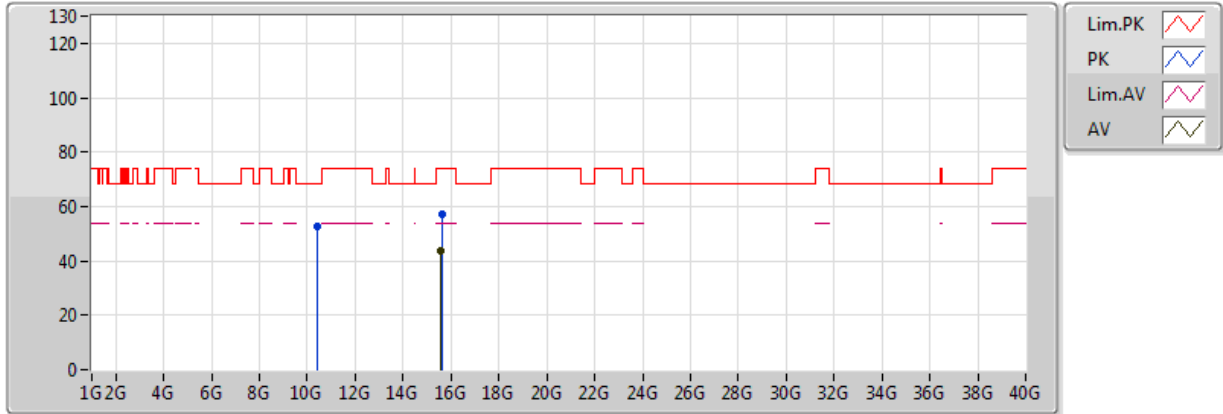
20180124  
EUT\_Z\_4TX  
Setting 94  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1496G	53.20	54.00	-0.80	9.90	3	Vertical	70	1.93	-
AV	5.2024G	113.95	Inf	-Inf	10.03	3	Vertical	70	1.93	-
PK	5.1472G	68.54	74.00	-5.46	9.89	3	Vertical	70	1.93	-
PK	5.2052G	125.14	Inf	-Inf	10.05	3	Vertical	70	1.93	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4TX  
Setting 94  
02-R-5  
FSU

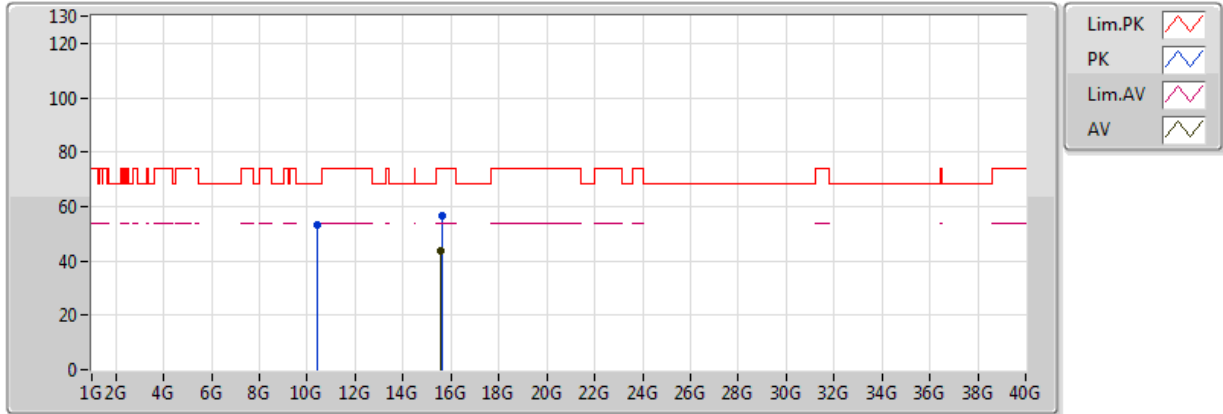
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.5889G	43.69	54.00	-10.31	18.60	3	Vertical	33	2.69	-
PK	10.3964G	52.93	68.20	-15.27	14.72	3	Vertical	170	1.50	-
PK	15.60606G	56.92	74.00	-17.08	18.57	3	Vertical	33	2.69	-



### HE20,BF\_Nss1,(MCS0)\_4TX

### 5200MHz\_TX

24/01/2018



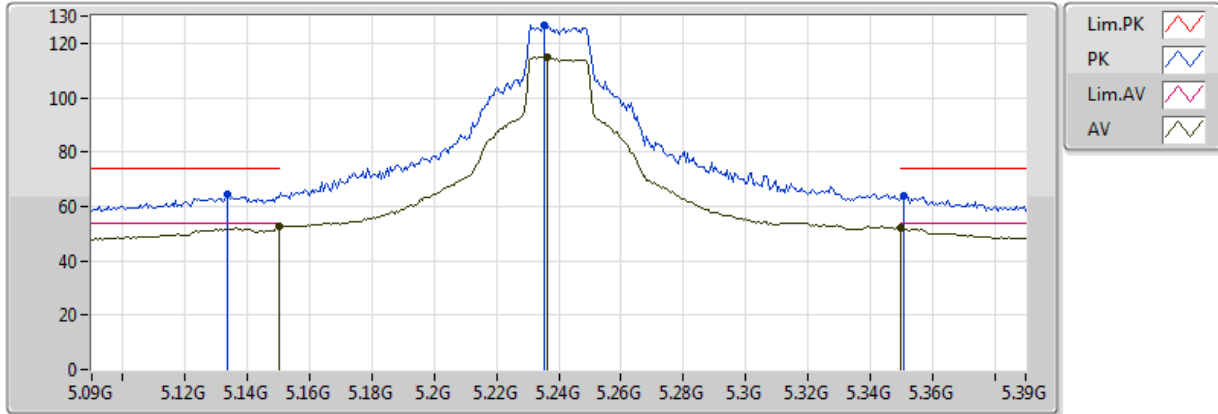
20180124  
EUT\_Z\_4TX  
Setting 94  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.59448G	43.73	54.00	-10.27	18.59	3	Horizontal	184	2.35	-
PK	10.39184G	52.96	68.20	-15.24	14.72	3	Horizontal	146	1.50	-
PK	15.60684G	56.78	74.00	-17.22	18.57	3	Horizontal	184	2.35	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

24/01/2018



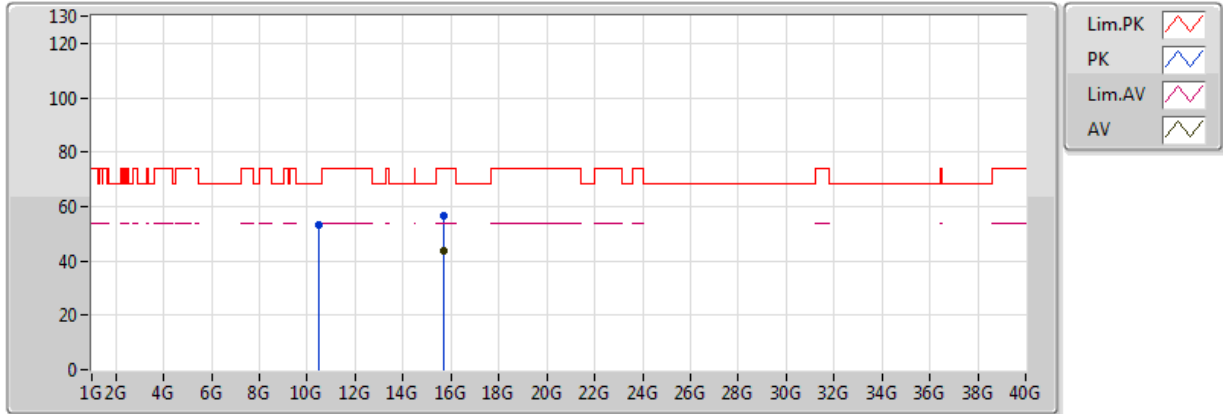
20180124  
EUT\_Z\_4TX  
Setting 100  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	52.47	54.00	-1.53	9.90	3	Vertical	15	2.05	-
AV	5.2364G	114.76	Inf	-Inf	10.25	3	Vertical	15	2.05	-
AV	5.350005G	51.92	54.00	-2.08	10.95	3	Vertical	15	2.05	-
PK	5.1338G	64.71	74.00	-9.29	9.86	3	Vertical	15	2.05	-
PK	5.2352G	126.40	Inf	-Inf	10.24	3	Vertical	15	2.05	-
PK	5.351G	63.66	74.00	-10.34	10.96	3	Vertical	15	2.05	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

24/01/2018



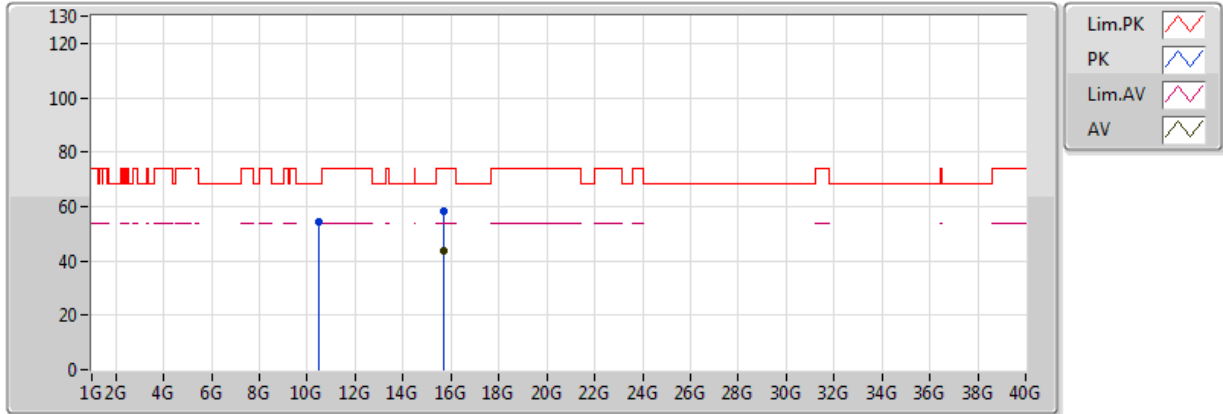
20180124  
EUT\_Z\_4TX  
Setting 100  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.70692G	43.77	54.00	-10.23	18.40	3	Vertical	221	1.50	-
PK	10.47232G	53.18	68.20	-15.02	14.72	3	Vertical	130	1.66	-
PK	15.70794G	56.84	74.00	-17.16	18.40	3	Vertical	221	1.50	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5240MHz\_TX

24/01/2018



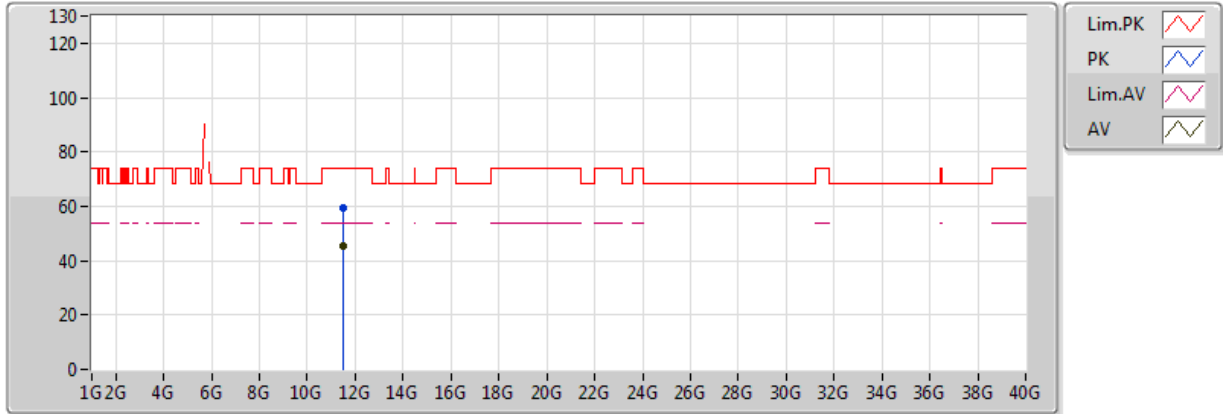
20180124  
EUT\_Z\_4TX  
Setting 100  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.71166G	43.63	54.00	-10.37	18.39	3	Horizontal	48	1.41	-
PK	10.48564G	54.08	68.20	-14.12	14.72	3	Horizontal	84	1.13	-
PK	15.7131G	58.44	74.00	-15.56	18.39	3	Horizontal	48	1.41	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

24/01/2018



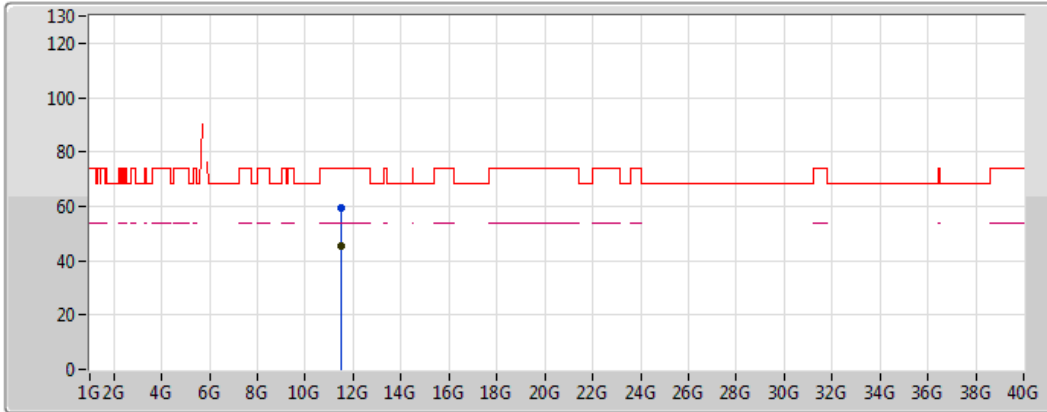
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.4879G	45.30	54.00	-8.70	18.01	3	Vertical	350	2.99	-
PK	11.49418G	59.49	74.00	-14.51	18.01	3	Vertical	350	2.99	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5745MHz\_TX

24/01/2018



Legend for the spectrum plot:

- Lim.PK (Red line with peaks)
- PK (Blue line with peaks)
- Lim.AV (Pink dashed line)
- AV (Black line with peaks)

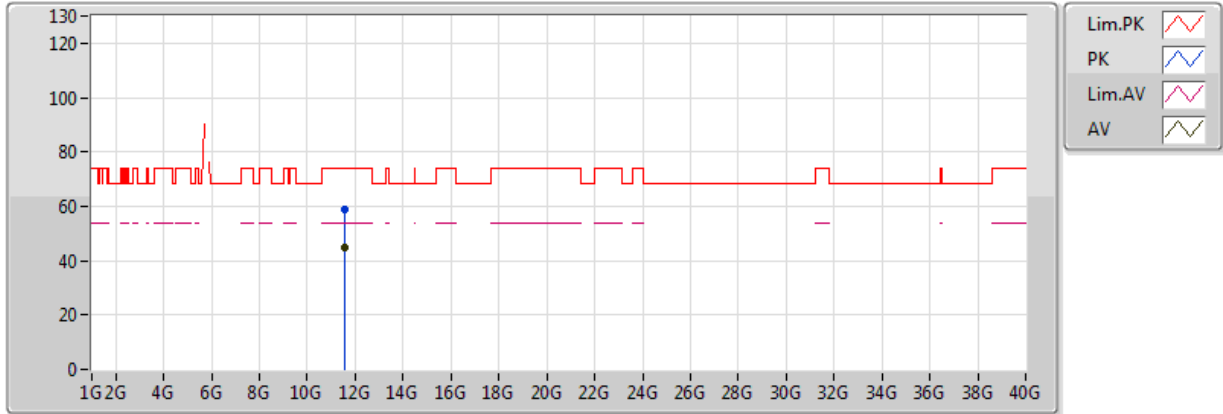
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.49366G	45.31	54.00	-8.69	18.01	3	Horizontal	357	1.50	-
PK	11.49032G	59.33	74.00	-14.67	18.01	3	Horizontal	357	1.50	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

24/01/2018



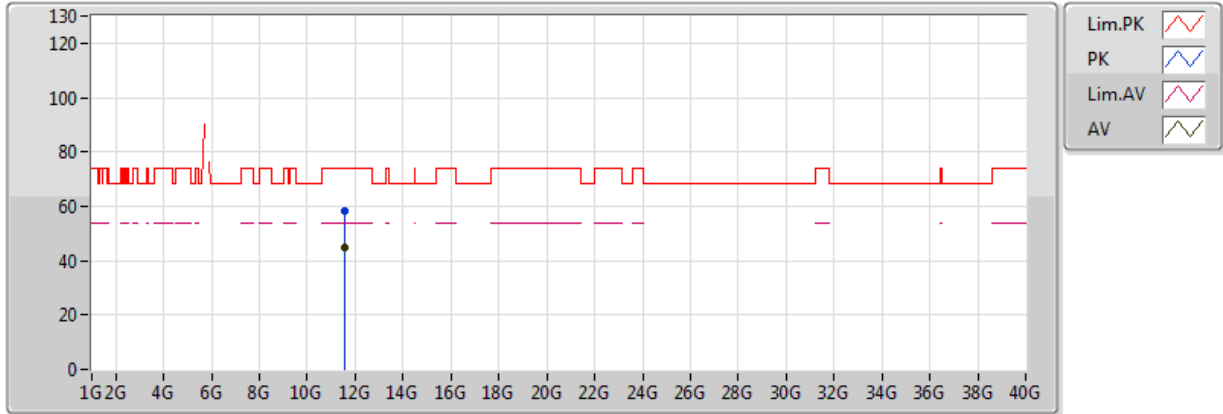
20180124  
 EUT\_Z\_4\_TX\_Dipole  
 Setting 96  
 06-L-3  
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56528G	44.72	54.00	-9.28	18.00	3	Vertical	104	1.50	-
PK	11.5728G	58.78	74.00	-15.22	18.00	3	Vertical	104	1.50	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5785MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

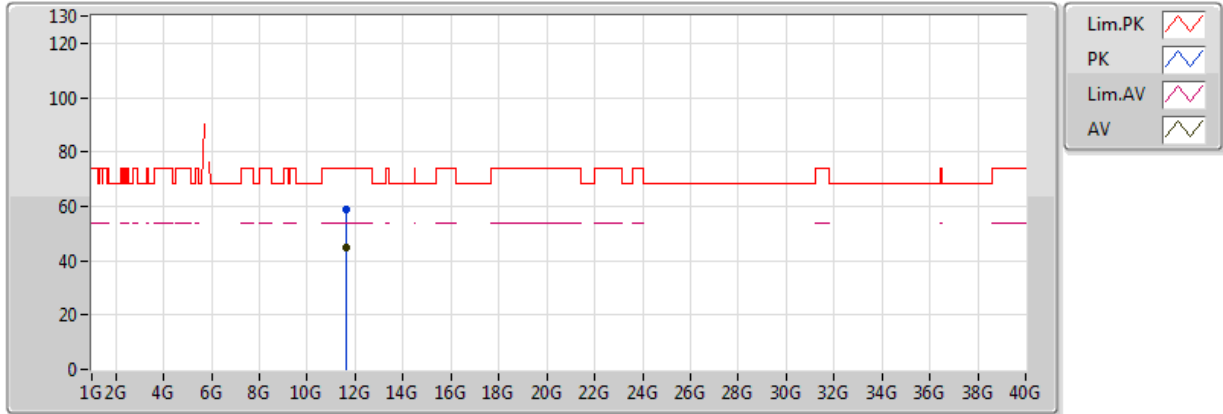
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.56552G	44.69	54.00	-9.31	18.00	3	Horizontal	62	1.13	-
PK	11.57064G	58.47	74.00	-15.53	18.00	3	Horizontal	62	1.13	-



### HE20,BF\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

24/01/2018



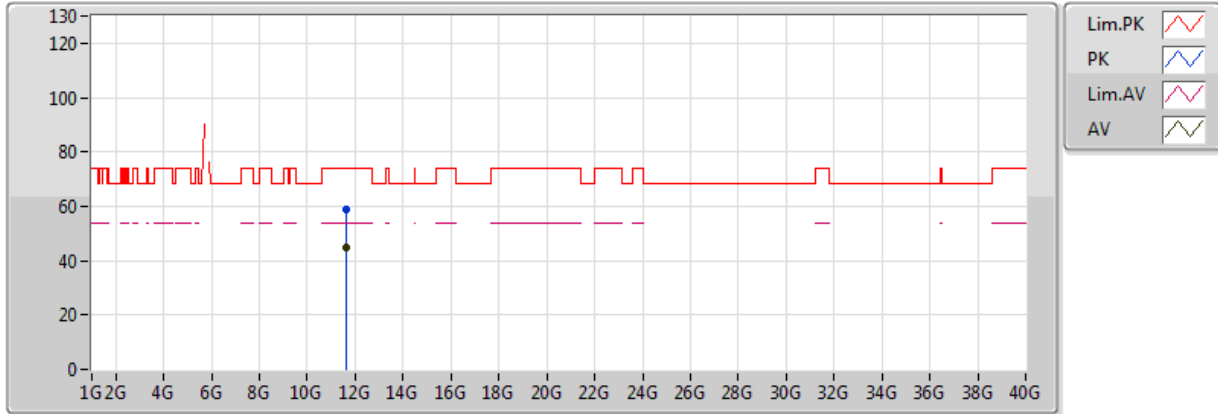
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 96  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.64884G	44.79	54.00	-9.21	17.99	3	Vertical	115	1.50	-
PK	11.6487G	58.69	74.00	-15.31	17.99	3	Vertical	115	1.50	-

### HE20,BF\_Nss1,(MCS0)\_4TX

### 5825MHz\_TX

24/01/2018



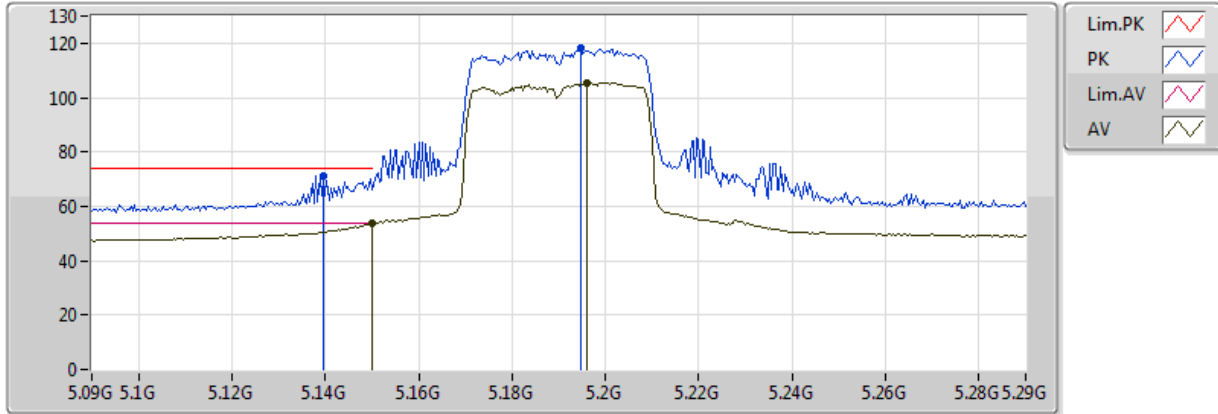
20180124  
 EUT\_Z\_4\_TX\_Dipole  
 Setting 96  
 06-L-3  
 FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.6482G	44.74	54.00	-9.26	17.99	3	Horizontal	184	1.83	-
PK	11.65046G	59.08	74.00	-14.92	17.99	3	Horizontal	184	1.83	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

24/01/2018



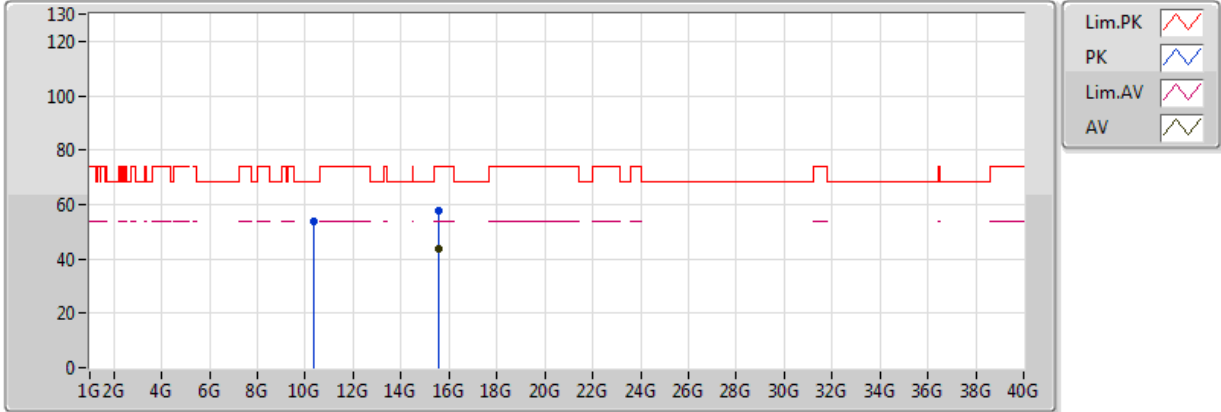
20180124  
EUT\_Z\_4TX  
Setting 67  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.74	54.00	-0.26	9.90	3	Vertical	97	1.93	-
AV	5.196G	105.59	Inf	-Inf	10.01	3	Vertical	97	1.93	-
PK	5.1396G	71.25	74.00	-2.75	9.88	3	Vertical	97	1.93	-
PK	5.1948G	118.50	Inf	-Inf	10.01	3	Vertical	97	1.93	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

24/01/2018



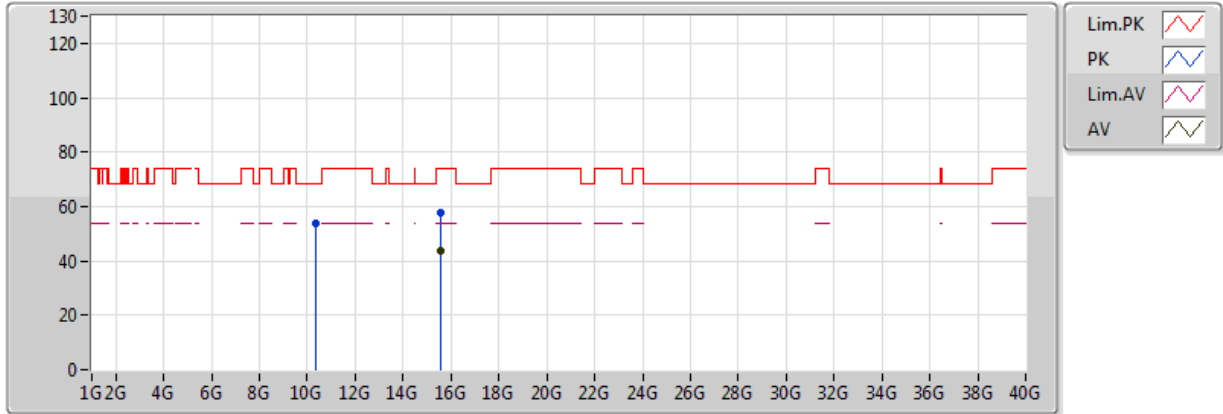
20180124  
EUT\_Z\_4TX  
Setting 67  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.56826G	43.60	54.00	-10.40	18.63	3	Vertical	36	1.50	-
PK	10.37832G	53.63	68.20	-14.57	14.71	3	Vertical	152	1.50	-
PK	15.56976G	57.85	74.00	-16.15	18.63	3	Vertical	36	1.50	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5190MHz\_TX

24/01/2018



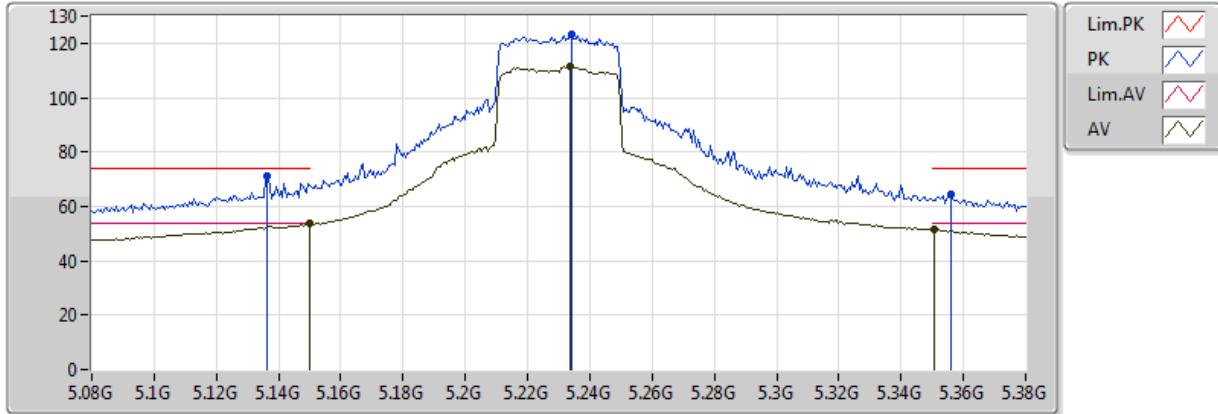
20180124  
EUT\_Z\_4TX  
Setting 67  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.55674G	43.59	54.00	-10.41	18.65	3	Horizontal	138	1.46	-
PK	10.36626G	53.65	68.20	-14.55	14.71	3	Horizontal	284	2.33	-
PK	15.55866G	57.60	74.00	-16.40	18.65	3	Horizontal	138	1.46	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

24/01/2018



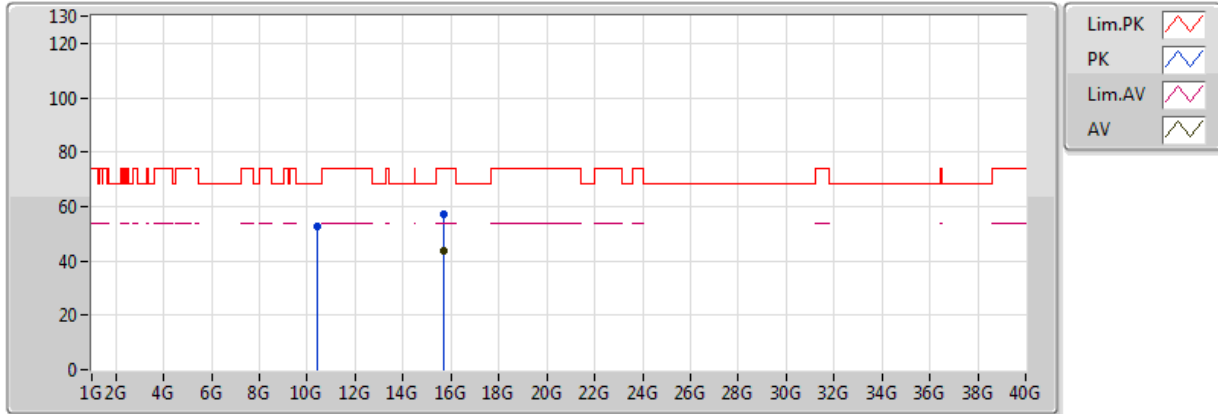
20180124  
EUT\_Z\_4TX  
Setting 87  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.66	54.00	-0.34	9.90	3	Vertical	84	1.99	-
AV	5.2336G	111.31	Inf	-Inf	10.23	3	Vertical	84	1.99	-
AV	5.3506G	51.41	54.00	-2.59	10.95	3	Vertical	84	1.99	-
PK	5.1364G	71.06	74.00	-2.94	9.87	3	Vertical	84	1.99	-
PK	5.2342G	123.31	Inf	-Inf	10.23	3	Vertical	84	1.99	-
PK	5.356G	64.18	74.00	-9.82	10.99	3	Vertical	84	1.99	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

24/01/2018



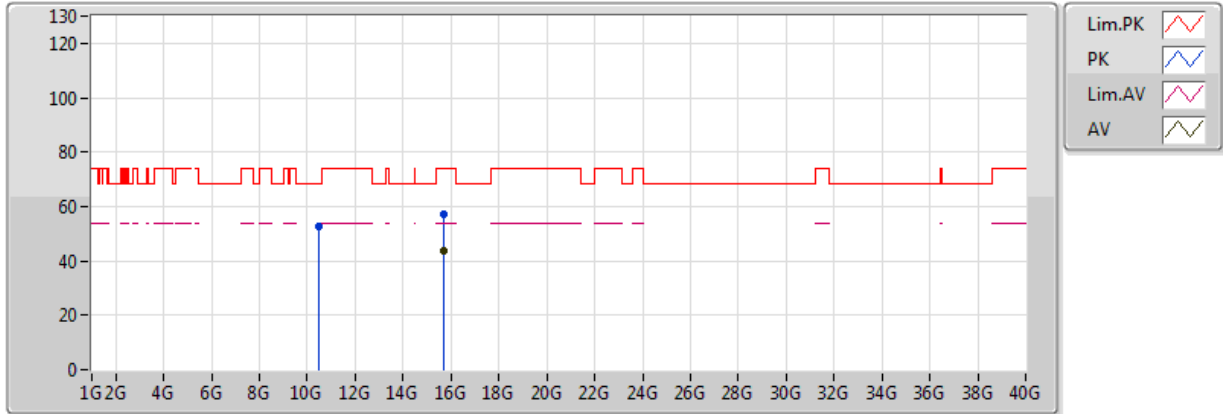
20180124  
EUT\_Z\_4TX  
Setting 87  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.69006G	43.87	54.00	-10.13	18.43	3	Vertical	235	1.50	-
PK	10.44566G	52.84	68.20	-15.36	14.72	3	Vertical	202	1.50	-
PK	15.67728G	57.34	74.00	-16.66	18.45	3	Vertical	235	1.50	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5230MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4TX  
Setting 87  
02-R-5  
FSU

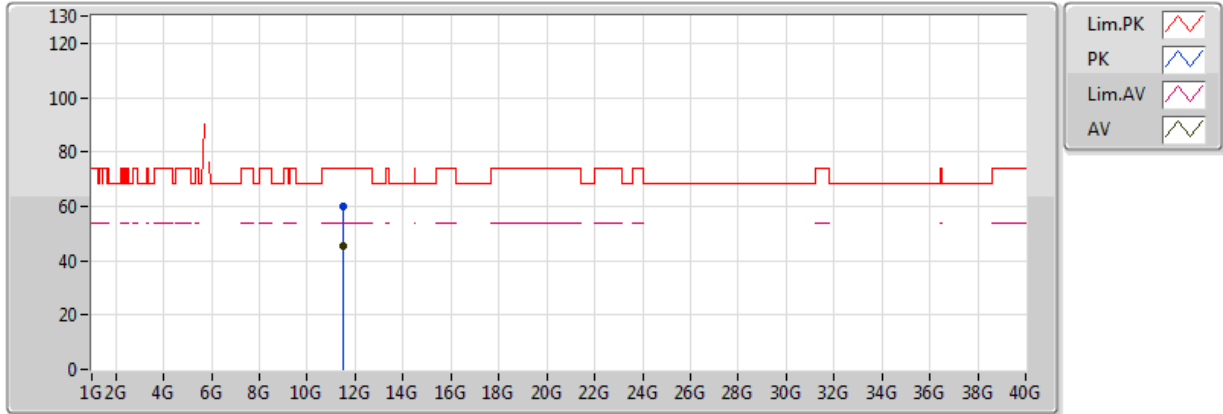
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.6951G	43.83	54.00	-10.17	18.42	3	Horizontal	58	2.67	-
PK	10.46378G	52.79	68.20	-15.41	14.72	3	Horizontal	134	2.07	-
PK	15.67656G	57.18	74.00	-16.82	18.45	3	Horizontal	58	2.67	-



### HE40,BF\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

24/01/2018



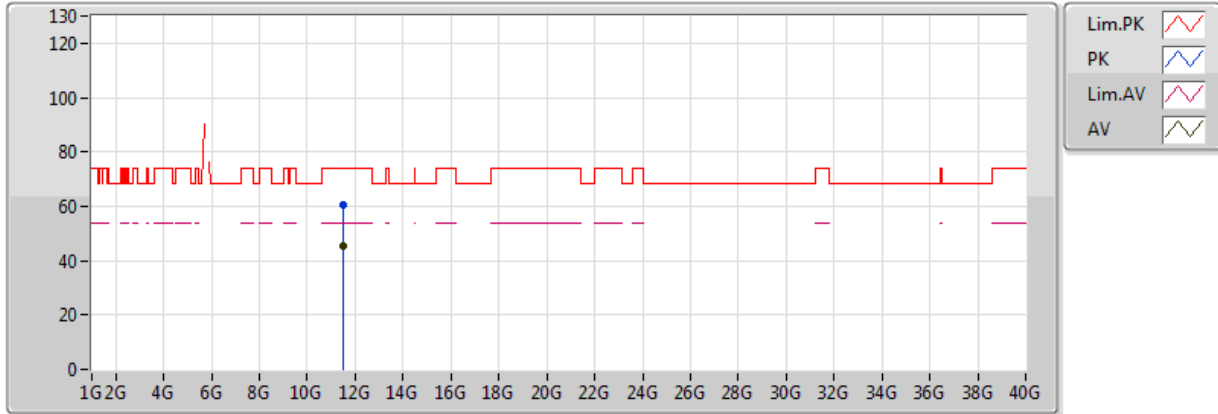
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 90  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50686G	45.28	54.00	-8.72	18.01	3	Vertical	267	1.92	-
PK	11.5135G	59.71	74.00	-14.29	18.01	3	Vertical	267	1.92	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5755MHz\_TX

24/01/2018



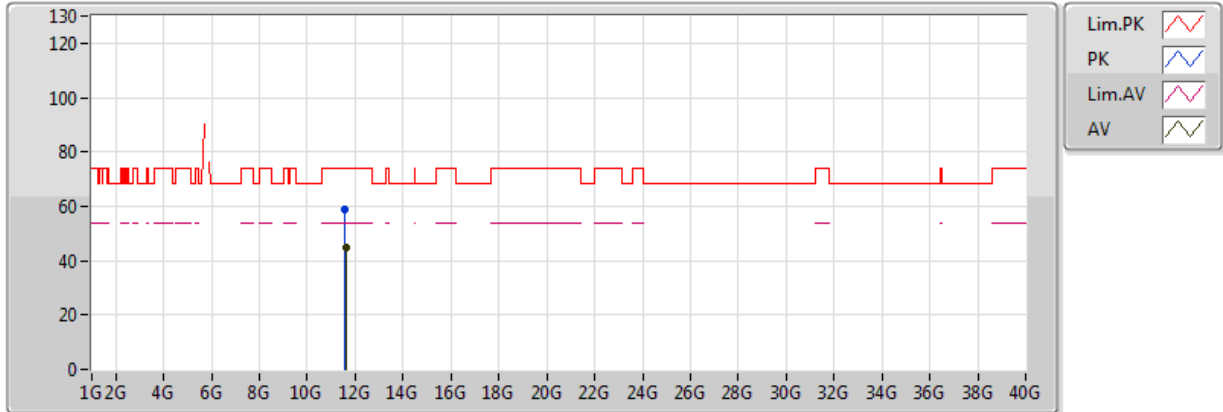
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 90  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50682G	45.30	54.00	-8.70	18.01	3	Horizontal	2	2.46	-
PK	11.50746G	60.29	74.00	-13.71	18.01	3	Horizontal	2	2.46	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

24/01/2018



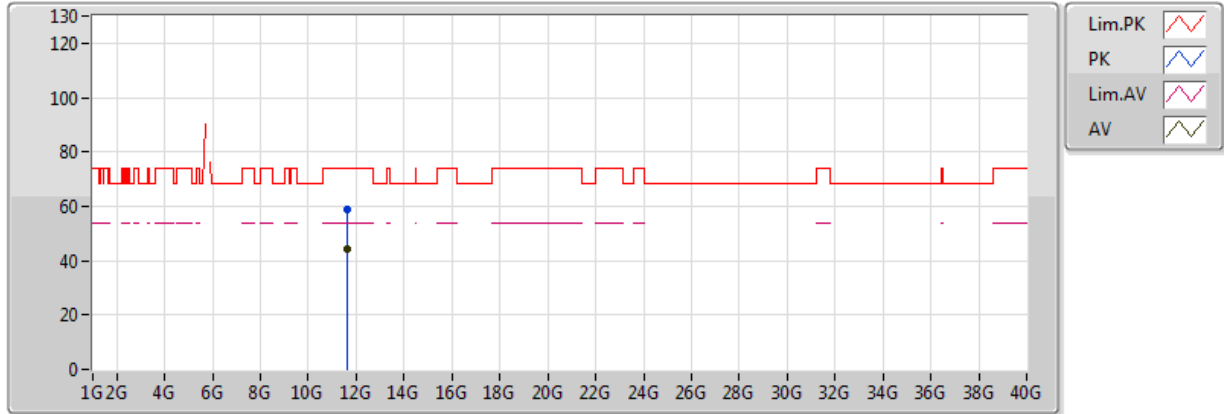
20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 90  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.5928G	58.68	74.00	-15.32	18.00	3	Vertical	89	1.50	-
AV	11.59322G	44.65	54.00	-9.35	18.00	3	Vertical	89	1.50	-

### HE40,BF\_Nss1,(MCS0)\_4TX

### 5795MHz\_TX

24/01/2018



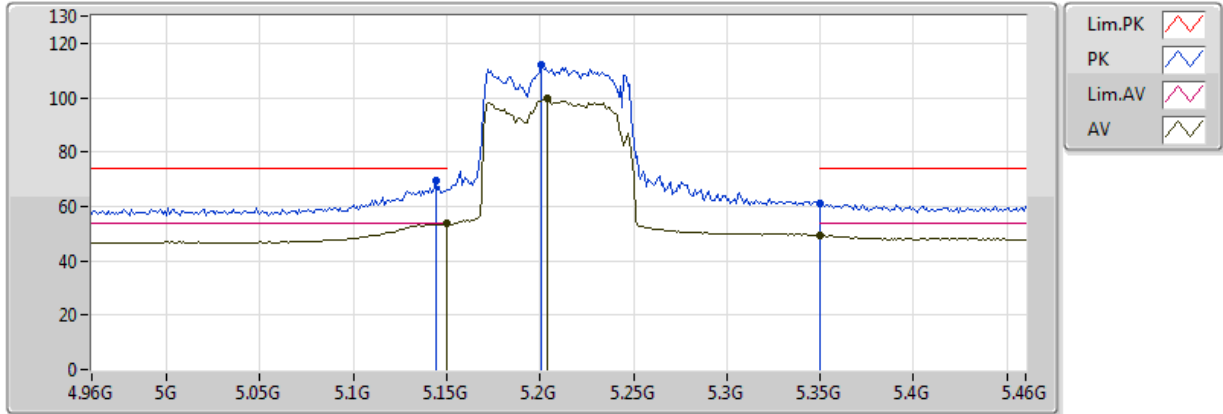
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 90  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	11.59348G	58.73	74.00	-15.27	18.00	3	Horizontal	45	1.50	-
AV	11.59438G	44.53	54.00	-9.47	18.00	3	Horizontal	45	1.50	-

### HE80,BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

24/01/2018



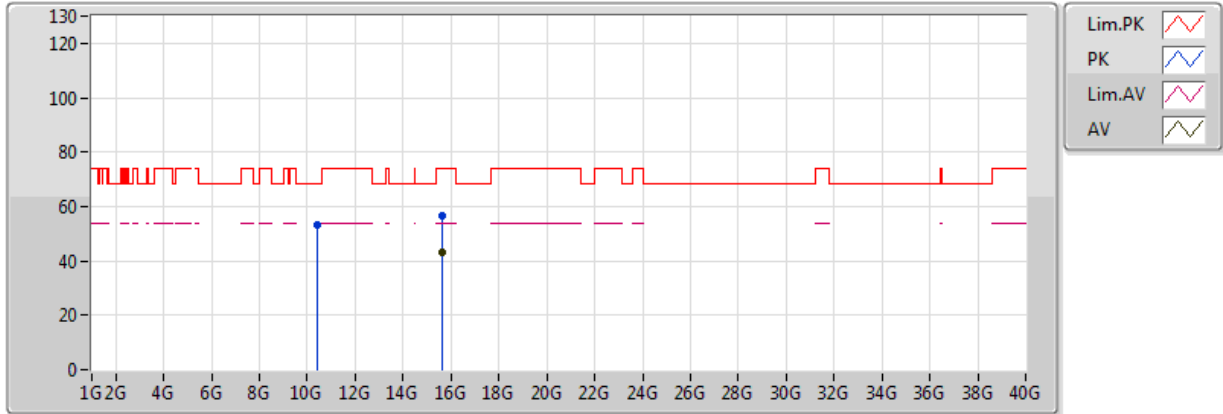
20180124  
EUT\_Z\_4TX  
Setting 68  
02-R-5-10  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.72	54.00	-0.28	9.90	3	Vertical	187	1.50	-
AV	5.204G	99.47	Inf	-Inf	10.04	3	Vertical	187	1.50	-
AV	5.350005G	49.20	54.00	-4.80	10.95	3	Vertical	187	1.50	-
PK	5.144G	69.59	74.00	-4.41	9.89	3	Vertical	187	1.50	-
PK	5.201G	112.00	Inf	-Inf	10.03	3	Vertical	187	1.50	-
PK	5.350005G	60.88	74.00	-13.12	10.95	3	Vertical	187	1.50	-

### HE80,BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

24/01/2018



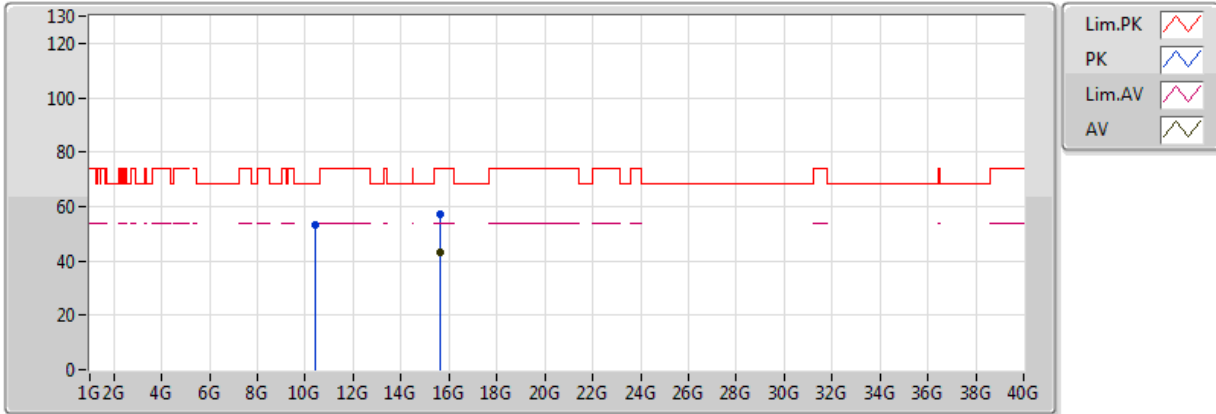
20180124  
EUT\_Z\_4TX  
Setting 68  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.63366G	43.29	54.00	-10.71	18.52	3	Vertical	277	2.04	-
PK	10.40746G	53.08	68.20	-15.12	14.72	3	Vertical	37	1.74	-
PK	15.6273G	56.65	74.00	-17.35	18.53	3	Vertical	277	2.04	-

### HE80,BF\_Nss1,(MCS0)\_4TX

### 5210MHz\_TX

24/01/2018



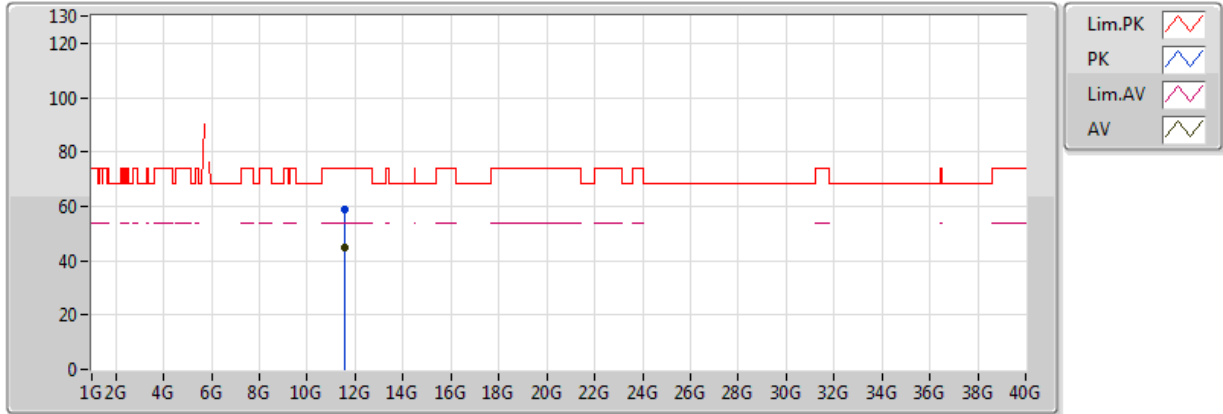
20180124  
EUT\_Z\_4TX  
Setting 68  
02-R-5  
FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.61938G	43.30	54.00	-10.70	18.55	3	Horizontal	174	1.54	-
PK	10.4263G	53.16	68.20	-15.04	14.72	3	Horizontal	274	1.50	-
PK	15.64386G	57.20	74.00	-16.80	18.50	3	Horizontal	174	1.54	-

### HE80,BF\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

24/01/2018



20180124  
EUT\_Z\_4\_TX\_Dipole  
Setting 85  
06-L-3  
FSP

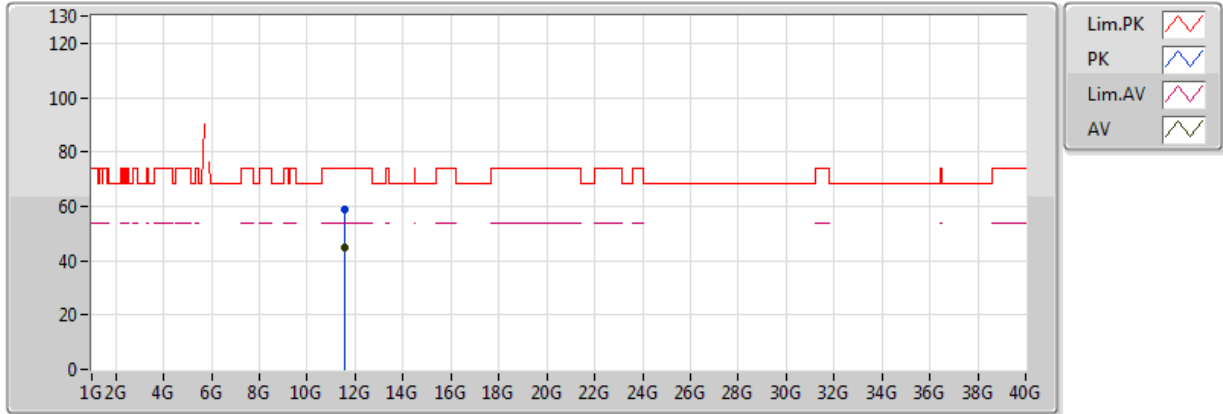
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.54842G	45.03	54.00	-8.97	18.00	3	Vertical	30	1.07	-
PK	11.54646G	58.85	74.00	-15.15	18.00	3	Vertical	30	1.07	-



### HE80,BF\_Nss1,(MCS0)\_4TX

### 5775MHz\_TX

24/01/2018



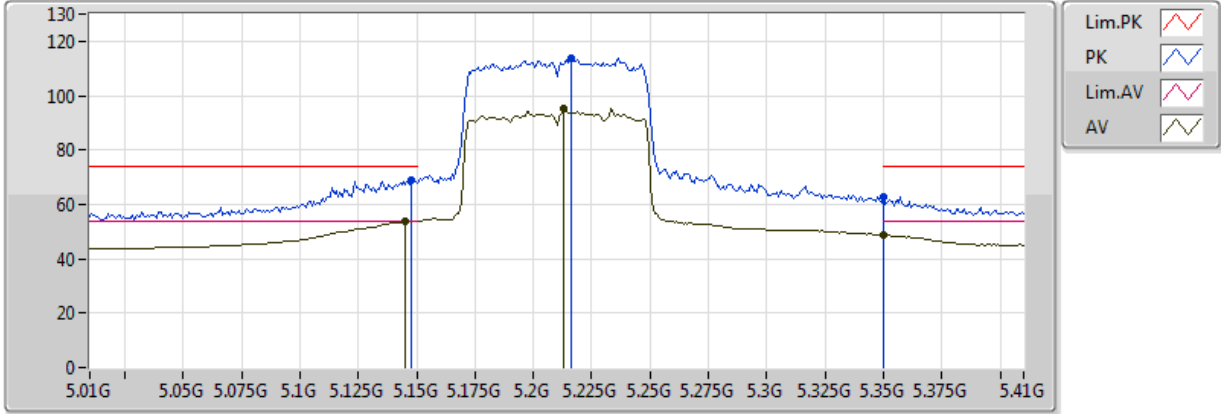
20180124  
EUT\_Z\_4 TX\_Dipole  
Setting 85  
06-L-3  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5484G	44.98	54.00	-9.02	18.00	3	Horizontal	47	1.50	-
PK	11.55168G	58.89	74.00	-15.11	18.00	3	Horizontal	47	1.50	-

### 802.11ac VHT80\_Nss4,(MCS0)\_4TX

### 5210MHz\_TX

25/01/2018



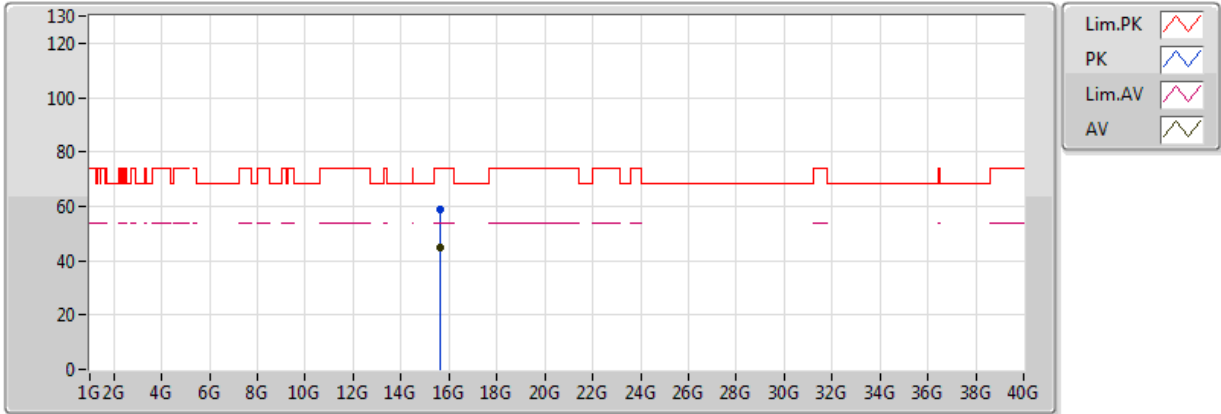
20180125  
EUT\_Z\_4TX  
Setting 73  
01-W-4-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.1452G	53.81	54.00	-0.19	4.82	3	Vertical	207	1.95	-
AV	5.2132G	95.18	Inf	-Inf	4.95	3	Vertical	207	1.95	-
AV	5.350005G	48.63	54.00	-5.37	5.52	3	Vertical	207	1.95	-
PK	5.1476G	68.69	74.00	-5.31	4.83	3	Vertical	207	1.95	-
PK	5.2164G	114.00	Inf	-Inf	4.96	3	Vertical	207	1.95	-
PK	5.350005G	62.54	74.00	-11.46	5.52	3	Vertical	207	1.95	-

### 802.11ac VHT80\_Nss4,(MCS0)\_4TX

### 5210MHz\_TX

25/01/2018



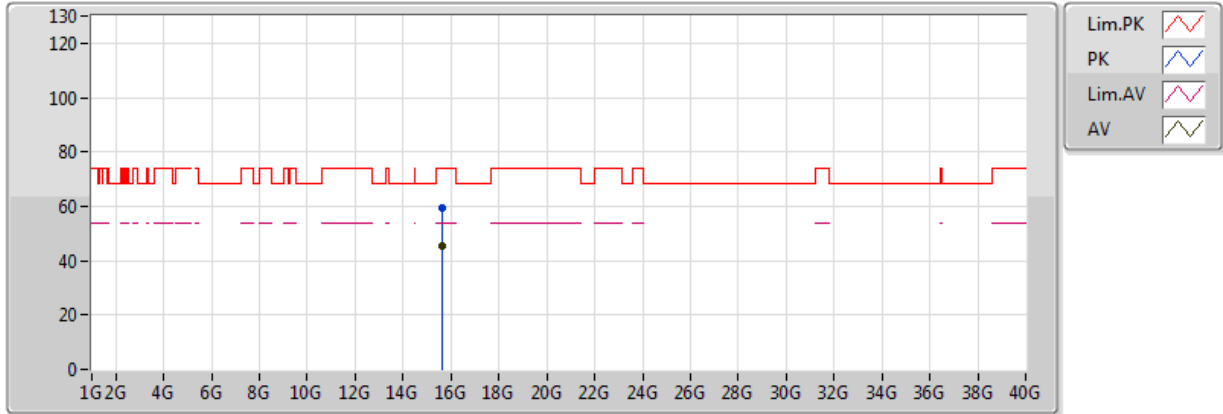
20180125  
EUT\_Z\_4TX  
Setting 73  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.62288G	45.00	54.00	-9.00	15.78	3	Vertical	318	1.50	-
PK	15.6356G	58.79	74.00	-15.21	15.76	3	Vertical	318	1.50	-

### 802.11ac VHT80\_Nss4,(MCS0)\_4TX

### 5210MHz\_TX

25/01/2018



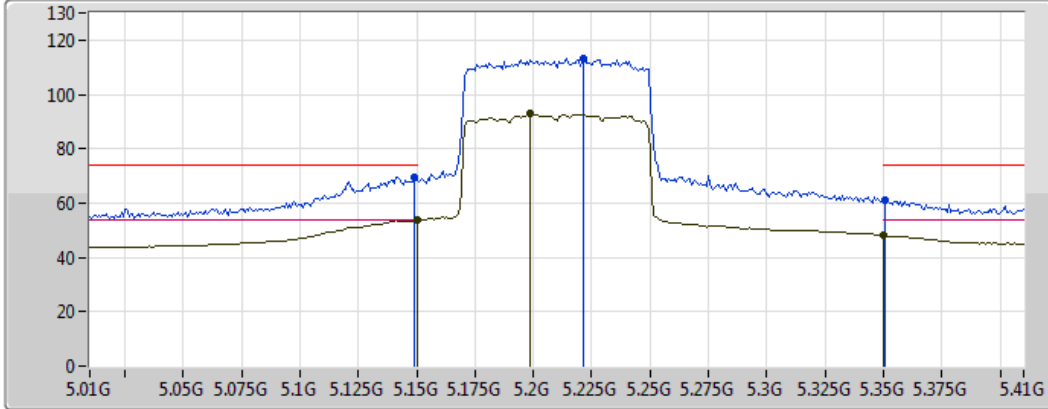
20180125  
EUT\_Z\_4TX  
Setting 73  
01-W-4  
FSP





Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.63424G	45.14	54.00	-8.86	15.76	3	Horizontal	357	1.50	-
PK	15.6208G	59.18	74.00	-14.82	15.78	3	Horizontal	357	1.50	-

# HE80\_Nss4,(MCS0)\_4TX

## 5210MHz\_TX

25/01/2018



- Lim.PK 
- PK 
- Lim.AV 
- AV 

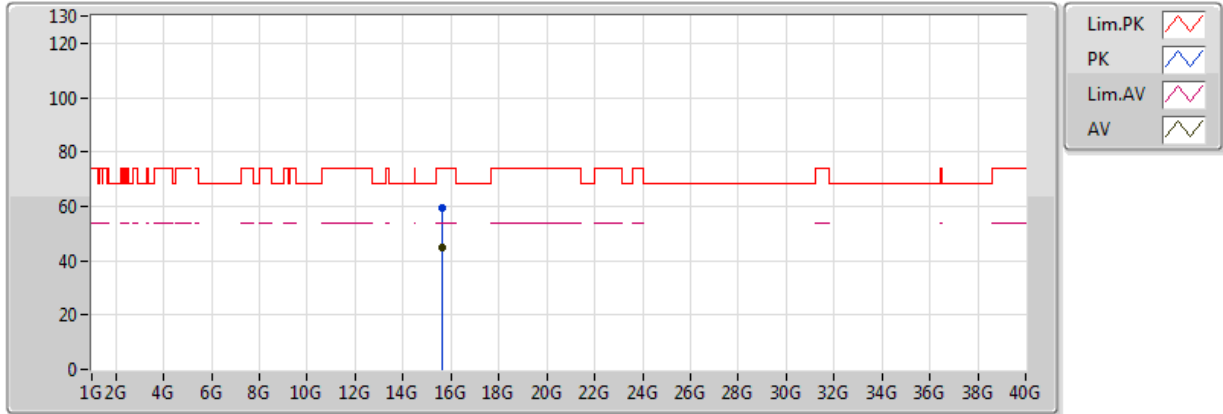
20180125  
EUT\_Z\_4TX  
Setting 70  
01-W-4-10  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	5.149995G	53.81	54.00	-0.19	4.83	3	Vertical	201	2.02	-
AV	5.1988G	92.81	Inf	-Inf	4.89	3	Vertical	201	2.02	-
AV	5.350005G	48.02	54.00	-5.98	5.52	3	Vertical	201	2.02	-
PK	5.1492G	69.59	74.00	-4.41	4.83	3	Vertical	201	2.02	-
PK	5.2212G	113.25	Inf	-Inf	4.98	3	Vertical	201	2.02	-
PK	5.3508G	61.27	74.00	-12.73	5.52	3	Vertical	201	2.02	-

### HE80\_Nss4,(MCS0)\_4TX

### 5210MHz\_TX

25/01/2018



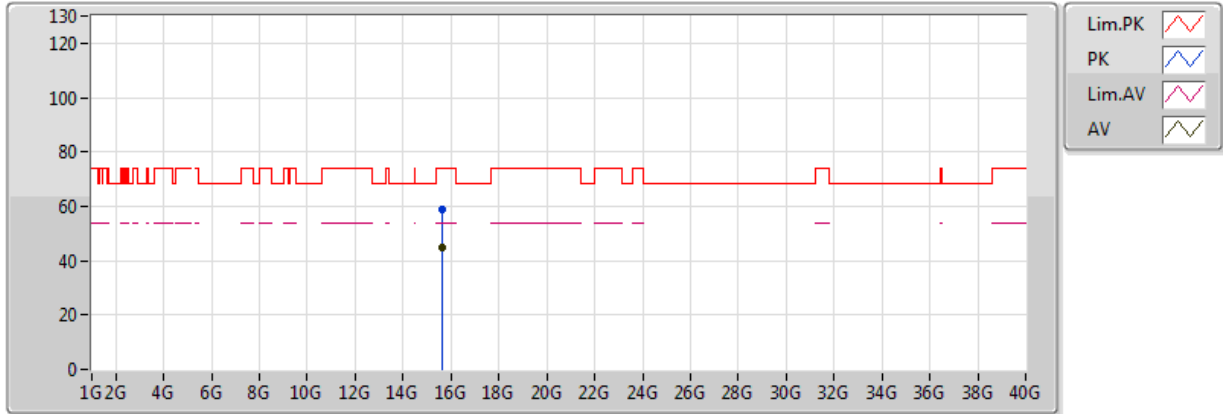
20180125  
EUT\_Z\_4TX  
Setting 70  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.62G	44.99	54.00	-9.01	15.79	3	Vertical	250	1.50	-
PK	15.62012G	59.12	74.00	-14.88	15.79	3	Vertical	250	1.50	-

### HE80\_Nss4,(MCS0)\_4TX

### 5210MHz\_TX

25/01/2018



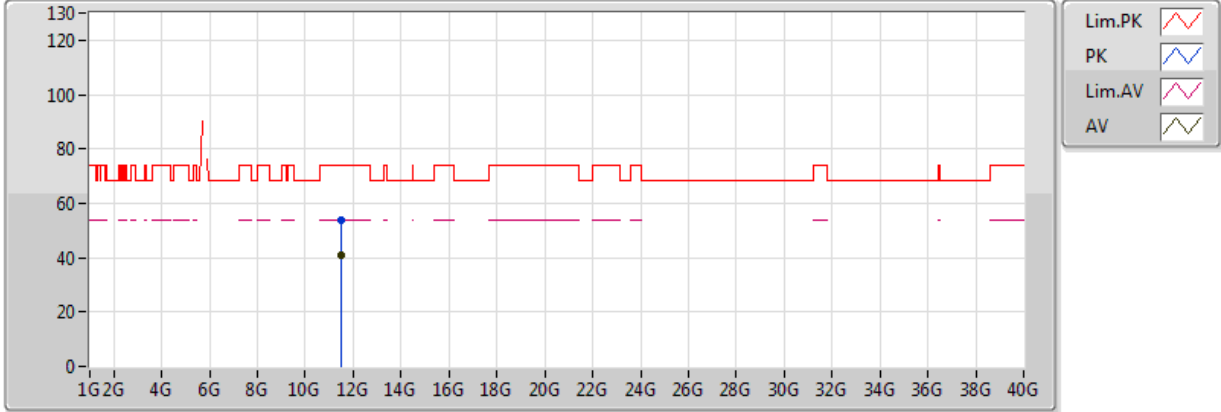
20180125  
EUT\_Z\_4TX  
Setting 70  
01-W-4  
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	15.62564G	44.77	54.00	-9.23	15.78	3	Horizontal	70	1.50	-
PK	15.63128G	59.07	74.00	-14.93	15.77	3	Horizontal	70	1.50	-

### 802.11ac VHT20-BF\_Nss2,(MCS0)\_4TX

### 5745MHz\_TX

30/01/2018



20180130  
EUT\_Z\_4TX TX\_Dipole  
Setting 96  
02-R-5  
FSU

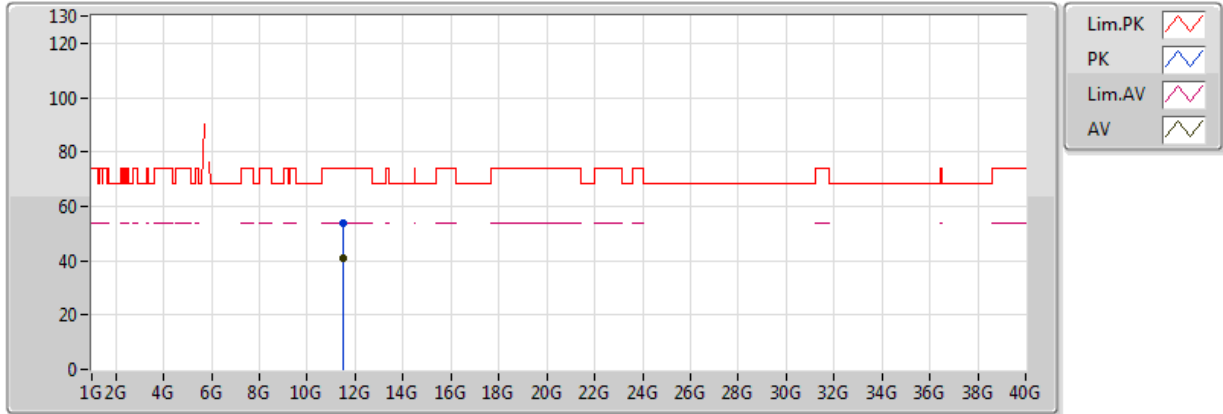
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.47842G	41.11	54.00	-12.89	15.43	3	Vertical	244	1.50	-
PK	11.4945G	53.96	74.00	-20.04	15.45	3	Vertical	244	1.50	-



### 802.11ac VHT20-BF\_Nss2,(MCS0)\_4TX

### 5745MHz\_TX

30/01/2018



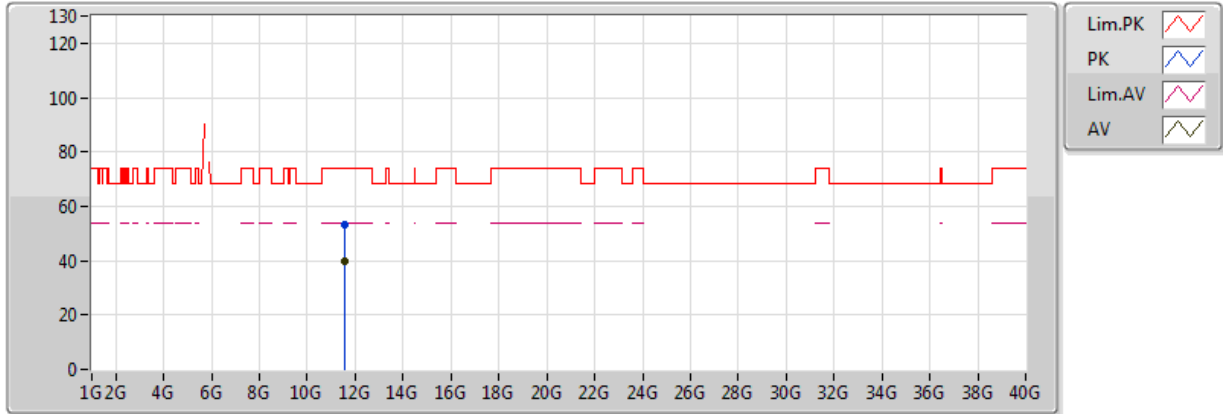
20180130  
 EUT\_Z\_4TX TX\_Dipole  
 Setting 96  
 02-R-5  
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.50224G	40.90	54.00	-13.10	15.46	3	Horizontal	45	3.00	-
PK	11.48712G	53.68	74.00	-20.32	15.44	3	Horizontal	45	3.00	-

### 802.11ac VHT20-BF\_Nss2,(MCS0)\_4TX

### 5785MHz\_TX

30/01/2018



20180130  
 EUT\_Z\_4TX TX\_Dipole  
 Setting 96  
 02-R-5  
 FSU

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	11.5556G	39.63	54.00	-14.37	15.53	3	Vertical	67	1.86	-
PK	11.56562G	53.40	74.00	-20.60	15.54	3	Vertical	67	1.86	-