

FCC Test Report

Equipment : PowerLine AV2 1000 Wireless AC1200 Extender
Brand Name : D-Link
Model No. : DHP-W610AV
FCC ID : KA2HPW610AVA1
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant : D-Link Corporation
No.289, Sinhu 3rd Rd., Neihu District, Taipei City 114,
Taiwan, R.O.C.
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client

The product sample received on Sep. 23, 2016 and completely tested on Oct. 24, 2016. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Sam Chen
SPORTON INTERNATIONAL INC.



Table of Contents

1	GENERAL DESCRIPTION	5
1.1	Information.....	5
1.2	Testing Applied Standards	6
1.3	Testing Location Information.....	7
1.4	Measurement Uncertainty	7
2	TEST CONFIGURATION OF EUT	8
2.1	Test Channel Mode	8
2.2	The Worst Case Measurement Configuration.....	9
2.3	EUT Operation during Test	10
2.4	Accessories	10
2.5	Support Equipment.....	11
2.6	Test Setup Diagram	12
3	TRANSMITTER TEST RESULT	15
3.1	AC Power-line Conducted Emissions	15
3.2	Emission Bandwidth	17
3.3	Maximum Conducted Output Power	18
3.4	Peak Power Spectral Density.....	20
3.5	Unwanted Emissions.....	23
3.6	Frequency Stability.....	27
4	TEST EQUIPMENT AND CALIBRATION DATA	28
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS		
APPENDIX B. TEST RESULTS OF EMISSION BANDWIDTH		
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER		
APPENDIX D. TEST RESULTS OF PEAK POWER SPECTRAL DENSITY		
APPENDIX E. TEST RESULTS OF UNWANTED EMISSIONS		
APPENDIX F. TEST RESULTS OF FREQUENCY STABILITY		
APPENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION		
APPENDIX H. TEST PHOTOS		

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



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: KA2HPW610AVA1

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)	5180-5240	36-48 [4]
5725-5850		5745-5825	149-165 [5]
5150-5250	n (HT40), ac (VHT40)	5190-5230	38-46 [2]
5725-5850		5755-5795	151-159 [2]
5150-5250	ac (VHT80)	5210	42 [1]
5725-5850		5775	155 [1]

Band	Mode	BWch (MHz)	Nant
5.2G	11a	20	2
5.2G	HT20	20	2
5.2G	VHT20	20	2
5.2G	HT40	40	2
5.2G	VHT40	40	2
5.2G	VHT80	80	2
5.8G	11a	20	2
5.8G	HT20	20	2
5.8G	VHT20	20	2
5.8G	HT40	40	2
5.8G	VHT40	40	2
5.8G	VHT80	80	2

Note:

- ♦ 5.2G/5.2G-I(IC) is the 5.2GHz Band (5.15-5.25GHz).
- ♦ 5.8G/5.8G-I(IC) is the 5.8GHz Band (5.725-5.850GHz).
- ♦ 11a, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 and VHT80 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM 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.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
					2.4GHz	5GHz
1	Hong Bo	DB_ANT-2 TO IPEX	Dipole Antenna	I-PEX	3.75	3.78
2	Hong Bo	DB_ANT-1 TO IPEX	Dipole Antenna	I-PEX	4.26	2.95

Note: The EUT has two antennas.

For IEEE 802.11a/g/n/ac mode (2TX/2RX):

Ant.1 and Ant. 2 can be used as transmitting/receiving antenna.

Ant.1 and Ant. 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) $\geq 1/T$
11a	1	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT20	0.91	1.313m	1k
VHT40	0.818	640u	3k
VHT80	0.688	297.5u	10k

1.1.4 EUT Operational Condition

EUT Power Type	Internal power supply		
Beamforming Function	☐ With beamforming	☒ Without beamforming	

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 v01r03
- ♦ FCC KDB 644545 D03 v01
- ♦ FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location				
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	TEL : 886-3-327-3456	FAX : 886-3-318-0055
☒	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	Eddie Weng	24°C / 58%	Oct. 15, 2016 Oct. 21, 2016
Radiated	03CH01-CB	Kenneth Huang, Jeff Wu, Lucke Hsieh, Peter Wu, Welson Chen	24°C / 59%	Sep. 28, 2016 Oct. 24, 2016
AC Conduction	CO01-CB	Edison Lin	23°C / 66%	Oct. 18, 2016

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%

2 Test Configuration of EUT

2.1 Test Channel Mode

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
5.2G	11a	20	1	2	5180	L	46/32
5.2G	11a	20	1	2	5200	M	47/34
5.2G	11a	20	1	2	5240	H	47/36
5.2G	VHT20	20	1,(M0)	2	5180	L	51/39
5.2G	VHT20	20	1,(M0)	2	5200	M	50/39
5.2G	VHT20	20	1,(M0)	2	5240	H	53/42
5.2G	VHT40	40	1,(M0)	2	5190	L	57/45
5.2G	VHT40	40	1,(M0)	2	5230	H	63/53
5.2G	VHT80	80	1,(M0)	2	5210	S	56/45
5.8G	11a	20	1	2	5745	L	59/63
5.8G	11a	20	1	2	5785	M	61/63
5.8G	11a	20	1	2	5825	H	57/60
5.8G	VHT20	20	1,(M0)	2	5745	L	59/63
5.8G	VHT20	20	1,(M0)	2	5785	M	60/62
5.8G	VHT20	20	1,(M0)	2	5825	H	60/63
5.8G	VHT40	40	1,(M0)	2	5755	L	58/63
5.8G	VHT40	40	1,(M0)	2	5795	H	60/63
5.8G	VHT80	80	1,(M0)	2	5775	S	58/63

Note:

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch.) and C (Straddle Band Ch.).
- ♦ 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	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	Normal Link (The PLC of EUT performed "Idle Mode")

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Maximum Conducted Output Power Peak Power Spectral Density Frequency Stability
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Unwanted Emissions
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	Place EUT in Y axis
2	Place EUT in Z axis
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Y axis and Z axis position for Radiated emission above 1GHz test, and the worst case was found at Z axis. So the measurement will follow this same test configuration.	
1	Place EUT in Z axis

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Place EUT in Y axis
2	Place EUT in Z axis
Refer to Sporton Test Report No.: FA680201-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link:

For AC power-line conducted emissions test:

The PLC function of EUT performed "Idle Mode" for the test.

During the test, the remote notebook executed "ping.exe" under WIN 7 to link with the EUT to maintain the connection by WLAN.

The remote notebook executed "WinTG2.0" to link with the EUT to control flow rate and traffic packet data by LAN.

For Radiated Emissions test(Below 1GHz):

During the test, the following programs under WIN XP were executed:

The remote notebook executed "ping.exe " to link with the EUT to maintain the connection by WLAN.

The remote notebook executed "iperf" and "WingTG 2.0" to link with the EUT to traffic packet data generated software and keep maximum traffic load by LAN.

The EUT and the device were connected through power network.

2.4 Accessories

Accessories
RJ-45 Cable*1: Non-shielded, 1m

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E6430	DoC

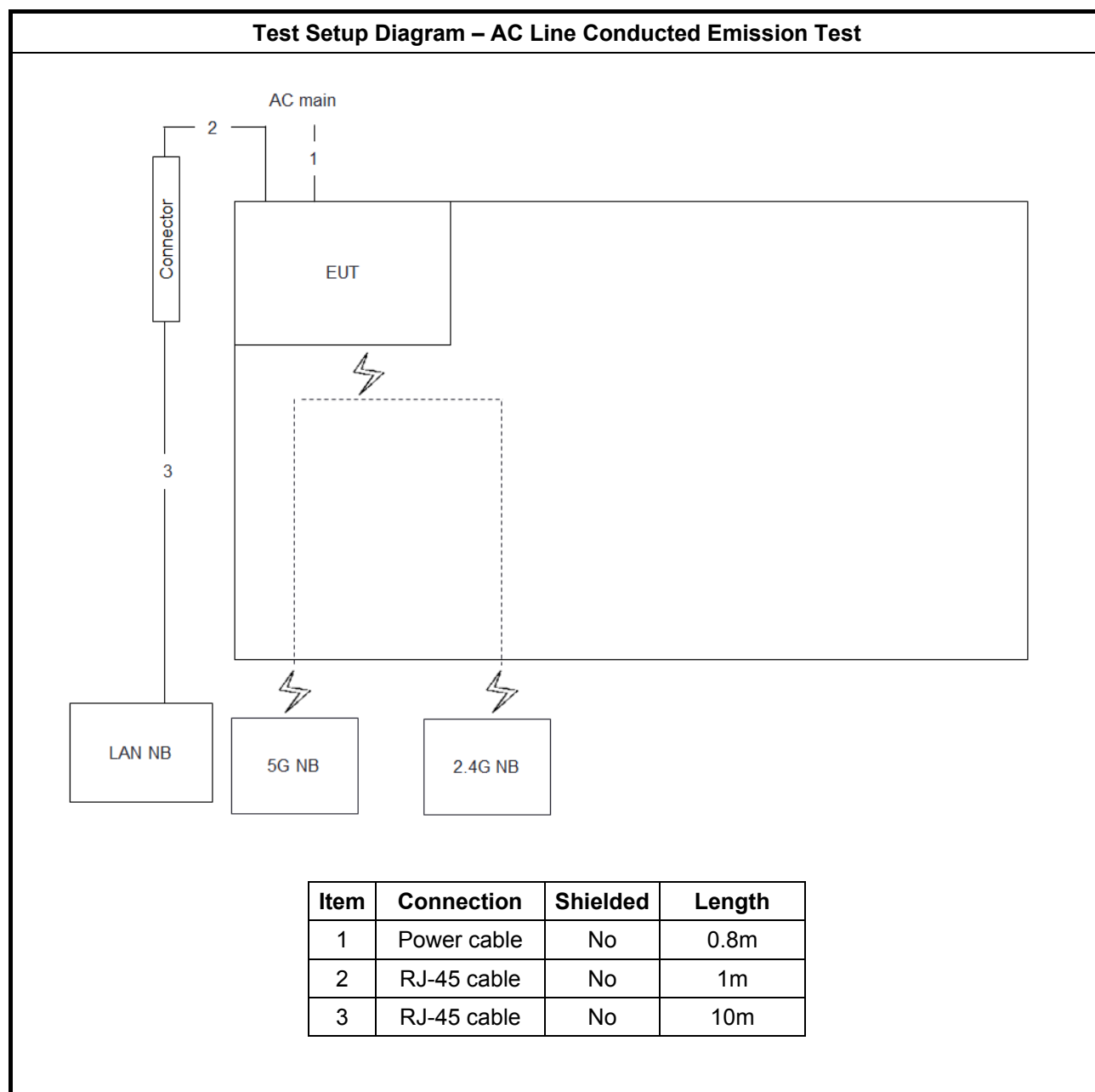
For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*4	DELL	E4300	DoC
	PowerLine AV2 1000 Wireless AC1200 Extender (Device)	D-Link	DHP-W610AV	KA2HPW610AVA1

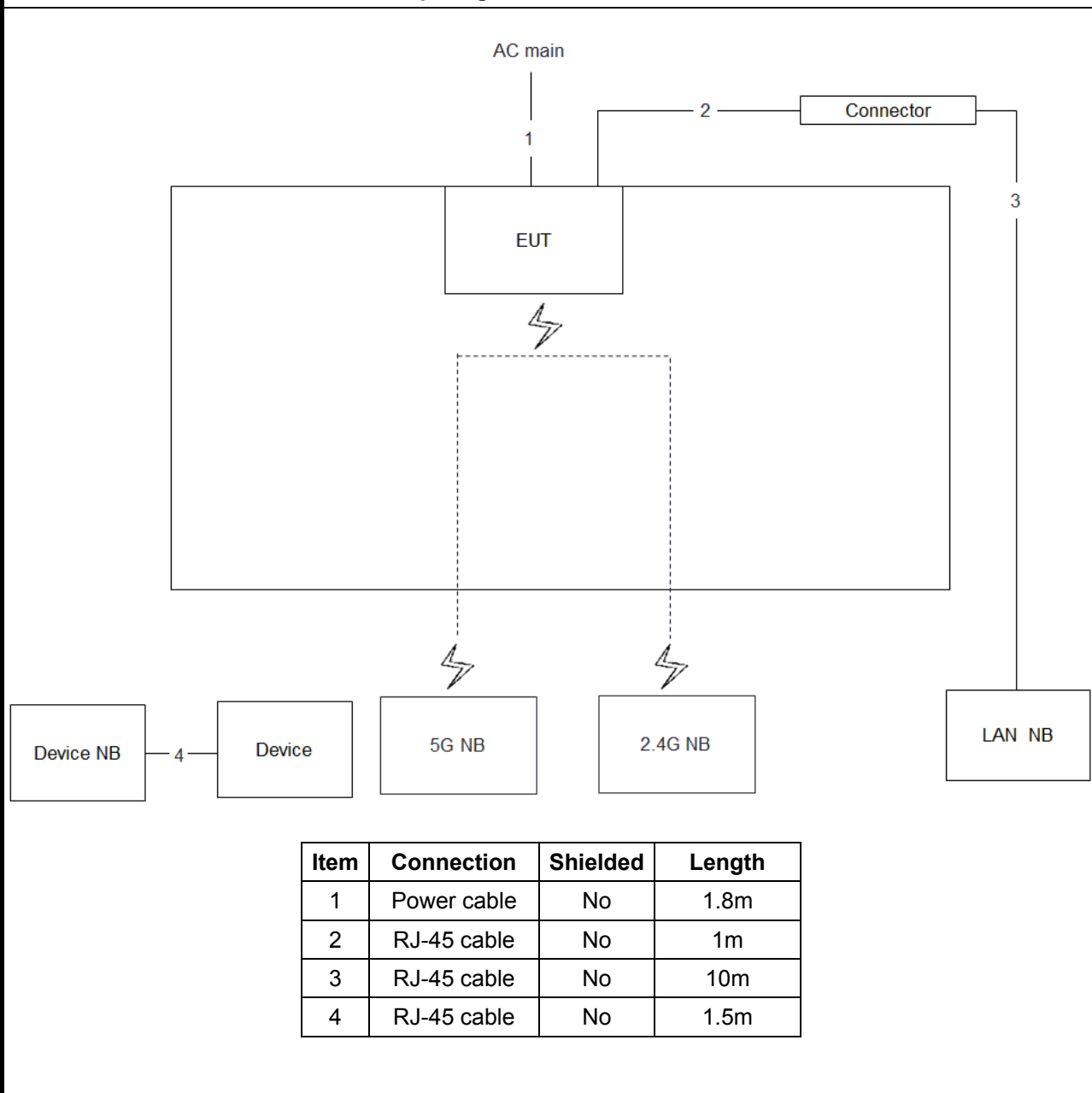
For Test Site No: TH01-CB and 03CH01-CB (above 1GHz)

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

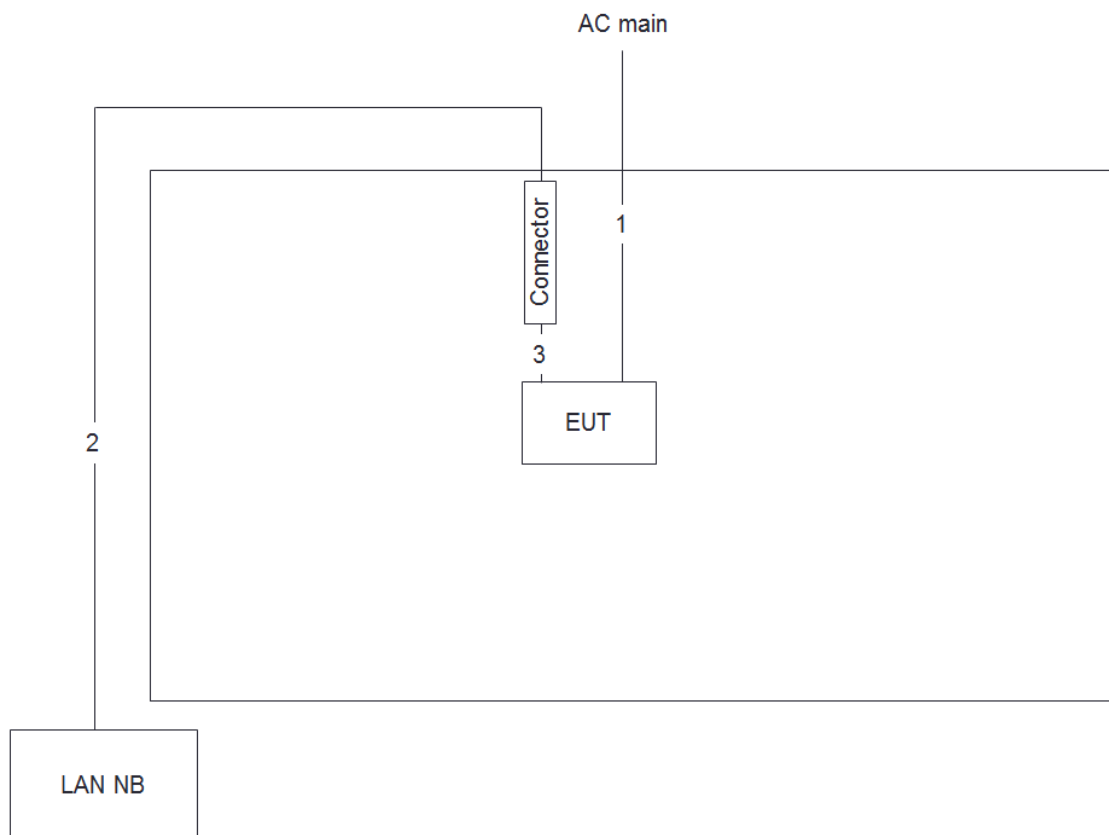
2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz



Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	Power cable	No	1.8m
3	RJ-45 to USB cable	No	0.1m

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

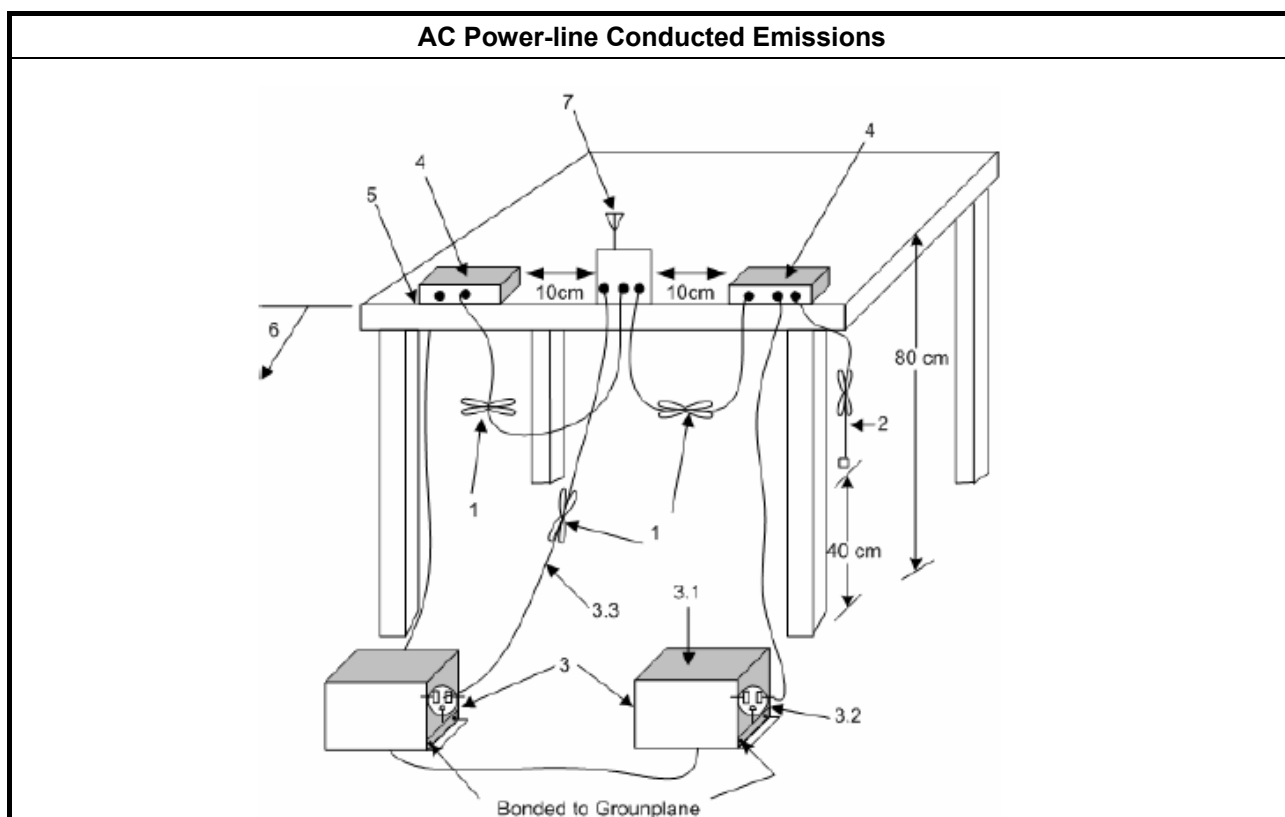
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 Emission Bandwidth

3.2.1 Emission Bandwidth Limit

Emission Bandwidth Limit	
UNII Devices	
☒	For the 5.15-5.25 GHz band, N/A
☐	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.
☐	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.
☒	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.
LE-LAN Devices	
☐	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.
☐	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
☐	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
☐	For the 5.725-5.85 GHz band, 6 dB emission bandwidth $\geq$ 500kHz.

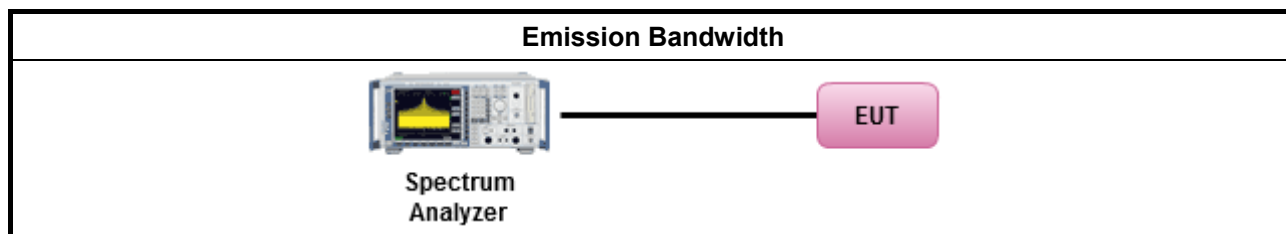
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
For the emission bandwidth shall be measured using one of the options below:	
☒	Refer as FCC KDB 789033, clause C for EBW and clause D for OBW measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.
☒	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	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
☐	- Outdoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. e.i.r.p. at any elevation angle above 30 degrees ≤ 125mW [21dBm] - Indoor AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ - Point-to-point AP: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$. - Mobile or Portable Client: the maximum conducted output power (P_{Out}) shall not exceed the lesser of 250 mW. If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$.
☐	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 $P_{Out} = 24 - (G_{TX} - 6)$.
☐	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 $P_{Out} = 24 - (G_{TX} - 6)$.
☒ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
LE-LAN Devices	
☐	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.
☐	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
☐	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
☐ For the 5.725-5.85 GHz band:	
☐	- Point-to-multipoint systems (P2M): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W. If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the maximum conducted output power (P_{Out}) shall not exceed the lesser of 1 W.
P_{Out} = maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

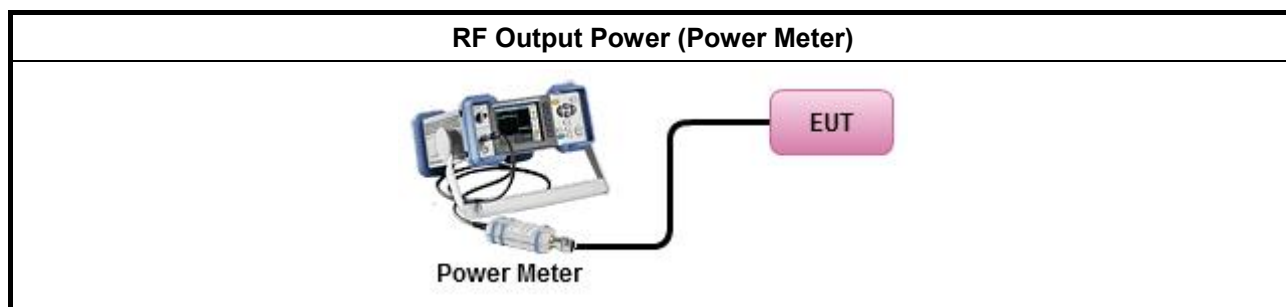
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Conducted Output Power	
	[duty cycle $\geq$ 98% or external video / power trigger]
☐	Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).
☐	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
☐	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	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
☒	Refer as FCC KDB 789033, clause E Method PM-G (using an RF average power meter).
For conducted measurement.	
	- If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them. - If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum 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	
UNII Devices	
☒ For the 5.15-5.25 GHz band:	
	- Outdoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Indoor AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 6$ dBi, then $P_{Out} = 17 - (G_{TX} - 6)$. - Point-to-point AP: the peak power spectral density (PPSD) shall not exceed the lesser of 17dBm/MHz. If $G_{TX} > 23$ dBi, then $P_{Out} = 17 - (G_{TX} - 23)$. - Mobile or Portable Client: the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☐ For the 5.47-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz. If $G_{TX} > 6$ dBi, then $PPSD = 11 - (G_{TX} - 6)$.	
☒ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
LE-LAN Devices	
☐ For the 5.15-5.25 GHz band, the peak power spectral density (PPSD) ≤ 4 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 10 dBm/MHz.	
☐ For the 5.25-5.35 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
	e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below: -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$; $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$; $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$; -42 dBW/MHz for $\theta > 45^\circ$
☐ For the 5.47-5.6 GHz band and 5.65-5.725 GHz band, the peak power spectral density (PPSD) ≤ 11 dBm/MHz and the e.i.r.p. peak power spectral density (PPSD) ≤ 17 dBm/MHz.	
☐ For the 5.725-5.85 GHz band:	
	- Point-to-multipoint systems (P2M): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz. If $G_{TX} > 6$ dBi, then $PPSD = 30 - (G_{TX} - 6)$. - Point-to-point systems (P2P): the peak power spectral density (PPSD) ≤ 30 dBm/500kHz.
PPSD = 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 G_{TX} = the maximum transmitting antenna directional gain in dBi.	

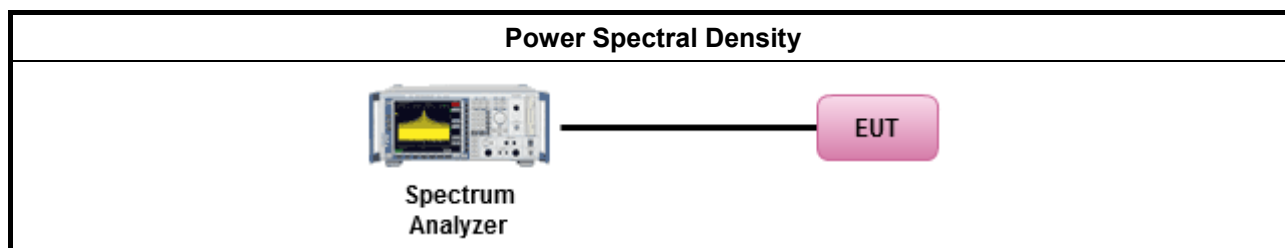
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
Peak power spectral density procedures that the same method as used to determine the conducted output power 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:	
☐ Refer as FCC KDB 789033, F)5) 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]	
☒ Refer as FCC KDB 789033, clause E Method SA-1 (spectral trace averaging).	
☐ 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	
☒ Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).	
☐ Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)	
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below:	
☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the 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.	
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,	
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.	
If multiple transmit chains, EIRP PPSD calculation could be following as methods: $PPSD_{total} = PPSD_1 + PPSD_2 + \dots + PPSD_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = PPSD_{total} + DG$	

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.

Un-restricted band emissions above 1GHz Limit	
Operating Band	Limit
5.15 - 5.25 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.25 - 5.35 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.47 - 5.725 GHz	e.i.r.p. -27 dBm [68.2 dBuV/m@3m]
5.725 - 5.85 GHz	all emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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).

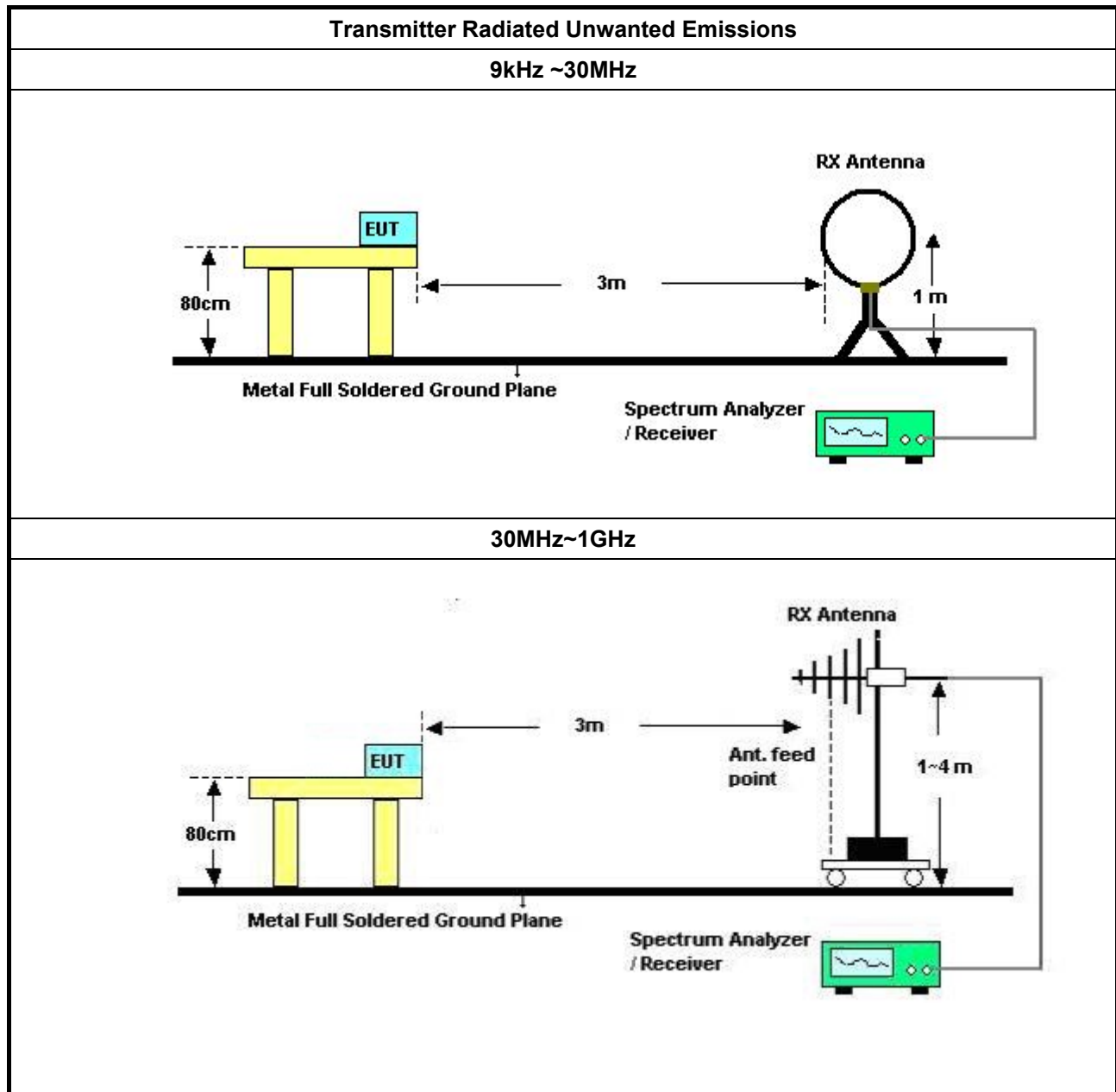
3.5.2 Measuring Instruments

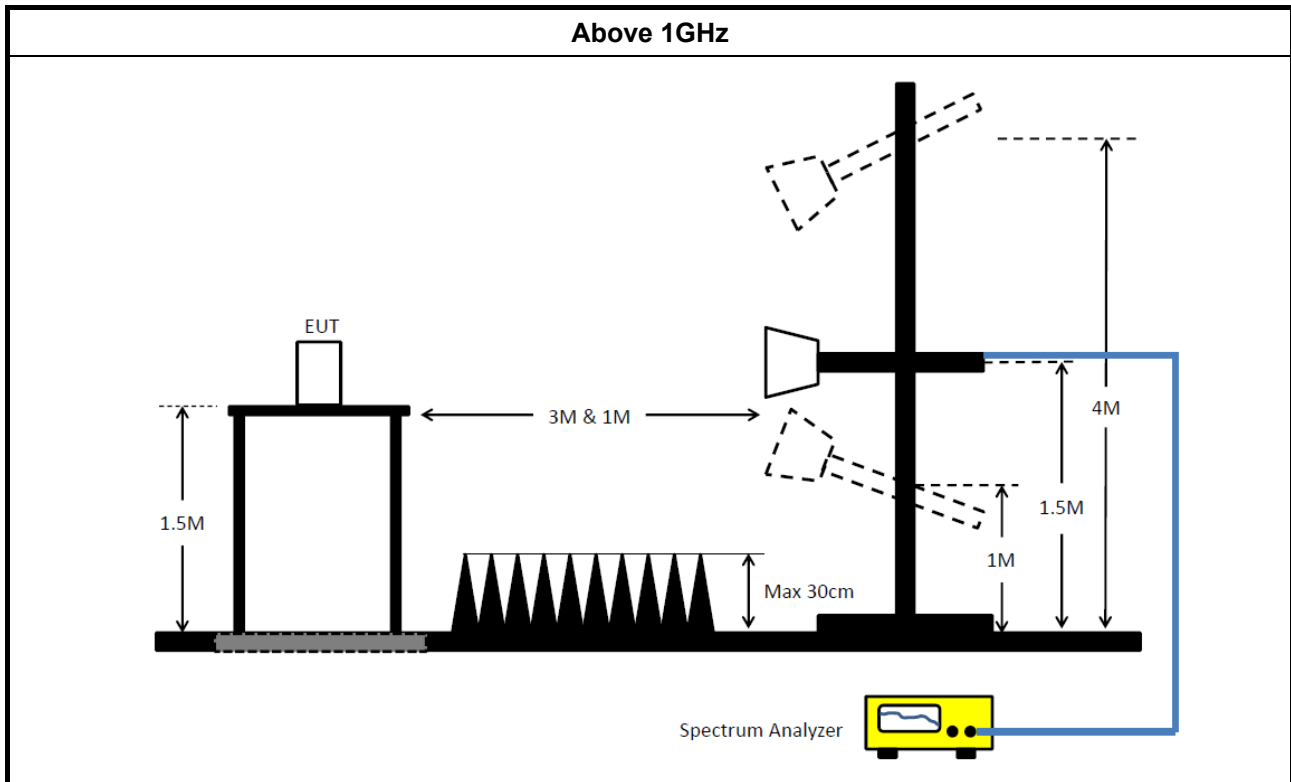
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
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).	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as FCC KDB 789033, clause H)2) for unwanted emissions into non-restricted bands.
	Refer as FCC KDB 789033, clause H)1) for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 789033, H)6) Method AD (Trace Averaging).
	☒ Refer as FCC KDB 789033, H)6) Method VB (Reduced VBW).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq$ 1/T, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 789033, clause H)5) measurement procedure peak limit.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.2 measurement procedure peak limit.
	For radiated measurement.
	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1GHz.
	The any unwanted emissions level shall not exceed the fundamental emission level.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.	

3.5.4 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
UNII Devices
In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
LE-LAN Devices
N/A
IEEE Std. 802.11
The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band and ± 25 ppm maximum for the 2.4 GHz band.

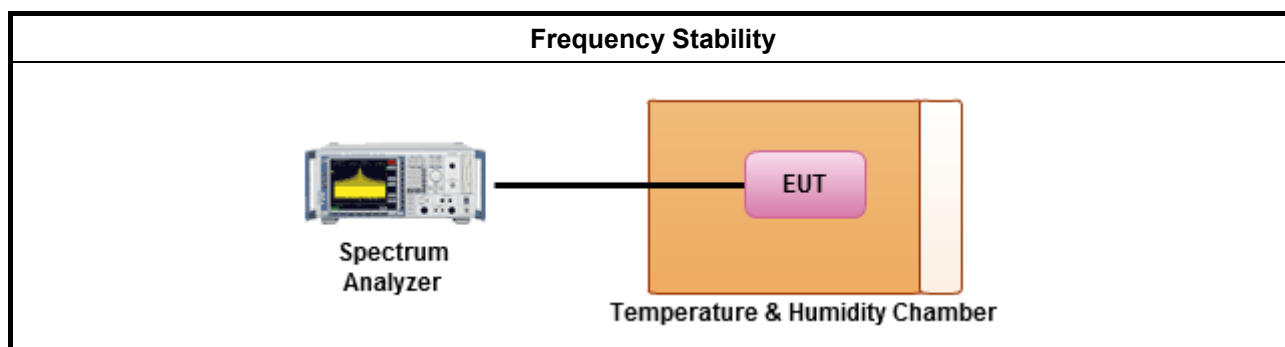
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
Refer as ANSI C63.10, clause 6.8 for frequency stability tests
- Frequency stability with respect to ambient temperature - Frequency stability when varying supply voltage - Extreme temperature is 0°C~40°C.

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	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 2016	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz ~ 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1370	1GHz~18GHz	Jul. 07, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP-40	100019	9kHz ~ 40GHz	Apr. 21, 2016	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
Temp. and Humidity Chamber	Ten Billion	TTH-D3SP	TBN-931011	-30~100 degree	Jun. 03, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

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

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

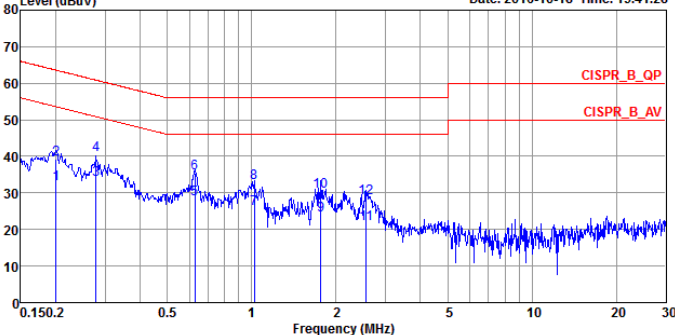
N.C.R means Non-Calibration required.

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Normal Link		

Level (dBuV)

Date: 2016-10-18 Time: 19:41:28

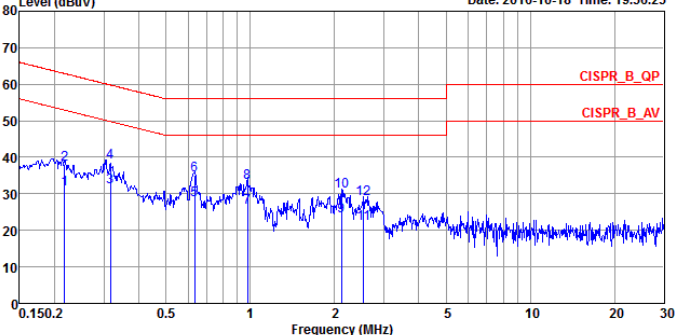


CISPR_B_QP

CISPR_B_AV

	Freq	Level	Over	Limit	Read	LISN	Remark	Pol/Phase
	MHz	dBuV	Limit	Line	Level	Factor		
1	0.2007	32.50	-21.08	53.58	22.36	9.96	Average	NEUTRAL
2	0.2007	39.21	-24.37	63.58	29.07	9.96	QP	NEUTRAL
3	0.2788	33.66	-17.19	50.85	23.51	9.96	Average	NEUTRAL
4	0.2788	40.31	-20.54	60.85	30.16	9.96	QP	NEUTRAL
5	0.6271	28.38	-17.62	46.00	18.21	9.97	Average	NEUTRAL
6	0.6271	35.32	-20.68	56.00	25.15	9.97	QP	NEUTRAL
7	1.0211	25.74	-20.26	46.00	15.58	9.97	Average	NEUTRAL
8	1.0211	32.77	-23.23	56.00	22.61	9.97	QP	NEUTRAL
9	1.7623	23.80	-22.20	46.00	13.57	9.99	Average	NEUTRAL
10	1.7623	30.50	-25.50	56.00	20.27	9.99	QP	NEUTRAL
11	2.5671	21.56	-24.44	46.00	11.28	10.00	Average	NEUTRAL
12	2.5671	28.49	-27.51	56.00	18.21	10.00	QP	NEUTRAL

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

AC Power-line Conducted Emissions Result																																																																																																																																				
Operating Mode	1			Power Phase			Line																																																																																																																													
Operating Function	Normal Link																																																																																																																																			
Level (dBuV) Date: 2016-10-18 Time: 19:36:23  CISPR_B_QP CISPR_B_AV <table><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>Read</th><th>LISN</th><th rowspan="2">Remark</th><th rowspan="2">Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th></tr><tr><td>1</td><td>0.2174</td><td>31.40</td><td>-21.52</td><td>52.92</td><td>21.26</td><td>9.96</td><td>Average</td><td>LINE</td></tr><tr><td>2</td><td>0.2174</td><td>38.07</td><td>-24.85</td><td>62.92</td><td>27.93</td><td>9.96</td><td>QP</td><td>LINE</td></tr><tr><td>3</td><td>0.3166</td><td>31.89</td><td>-17.91</td><td>49.80</td><td>21.71</td><td>9.99</td><td>Average</td><td>LINE</td></tr><tr><td>4</td><td>0.3166</td><td>38.76</td><td>-21.04</td><td>59.80</td><td>28.58</td><td>9.99</td><td>QP</td><td>LINE</td></tr><tr><td>5</td><td>0.6338</td><td>28.44</td><td>-17.56</td><td>46.00</td><td>18.21</td><td>10.03</td><td>Average</td><td>LINE</td></tr><tr><td>6</td><td>0.6338</td><td>35.12</td><td>-20.88</td><td>56.00</td><td>24.89</td><td>10.03</td><td>QP</td><td>LINE</td></tr><tr><td>7</td><td>0.9787</td><td>26.27</td><td>-19.73</td><td>46.00</td><td>16.03</td><td>10.05</td><td>Average</td><td>LINE</td></tr><tr><td>8</td><td>0.9787</td><td>32.97</td><td>-23.03</td><td>56.00</td><td>22.73</td><td>10.05</td><td>QP</td><td>LINE</td></tr><tr><td>9</td><td>2.1213</td><td>23.79</td><td>-22.21</td><td>46.00</td><td>13.45</td><td>10.08</td><td>Average</td><td>LINE</td></tr><tr><td>10</td><td>2.1213</td><td>30.66</td><td>-25.34</td><td>56.00</td><td>20.32</td><td>10.08</td><td>QP</td><td>LINE</td></tr><tr><td>11</td><td>2.5400</td><td>21.84</td><td>-24.16</td><td>46.00</td><td>11.47</td><td>10.09</td><td>Average</td><td>LINE</td></tr><tr><td>12</td><td>2.5400</td><td>28.58</td><td>-27.42</td><td>56.00</td><td>18.21</td><td>10.09</td><td>QP</td><td>LINE</td></tr></table>										Freq	Level	Over	Limit	Read	LISN	Remark	Pol/Phase		MHz	dBuV	Limit	Line	Level	Factor	1	0.2174	31.40	-21.52	52.92	21.26	9.96	Average	LINE	2	0.2174	38.07	-24.85	62.92	27.93	9.96	QP	LINE	3	0.3166	31.89	-17.91	49.80	21.71	9.99	Average	LINE	4	0.3166	38.76	-21.04	59.80	28.58	9.99	QP	LINE	5	0.6338	28.44	-17.56	46.00	18.21	10.03	Average	LINE	6	0.6338	35.12	-20.88	56.00	24.89	10.03	QP	LINE	7	0.9787	26.27	-19.73	46.00	16.03	10.05	Average	LINE	8	0.9787	32.97	-23.03	56.00	22.73	10.05	QP	LINE	9	2.1213	23.79	-22.21	46.00	13.45	10.08	Average	LINE	10	2.1213	30.66	-25.34	56.00	20.32	10.08	QP	LINE	11	2.5400	21.84	-24.16	46.00	11.47	10.09	Average	LINE	12	2.5400	28.58	-27.42	56.00	18.21	10.09	QP	LINE
	Freq	Level	Over	Limit	Read	LISN	Remark	Pol/Phase																																																																																																																												
	MHz	dBuV	Limit	Line	Level	Factor																																																																																																																														
1	0.2174	31.40	-21.52	52.92	21.26	9.96	Average	LINE																																																																																																																												
2	0.2174	38.07	-24.85	62.92	27.93	9.96	QP	LINE																																																																																																																												
3	0.3166	31.89	-17.91	49.80	21.71	9.99	Average	LINE																																																																																																																												
4	0.3166	38.76	-21.04	59.80	28.58	9.99	QP	LINE																																																																																																																												
5	0.6338	28.44	-17.56	46.00	18.21	10.03	Average	LINE																																																																																																																												
6	0.6338	35.12	-20.88	56.00	24.89	10.03	QP	LINE																																																																																																																												
7	0.9787	26.27	-19.73	46.00	16.03	10.05	Average	LINE																																																																																																																												
8	0.9787	32.97	-23.03	56.00	22.73	10.05	QP	LINE																																																																																																																												
9	2.1213	23.79	-22.21	46.00	13.45	10.08	Average	LINE																																																																																																																												
10	2.1213	30.66	-25.34	56.00	20.32	10.08	QP	LINE																																																																																																																												
11	2.5400	21.84	-24.16	46.00	11.47	10.09	Average	LINE																																																																																																																												
12	2.5400	28.58	-27.42	56.00	18.21	10.09	QP	LINE																																																																																																																												
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																																																				



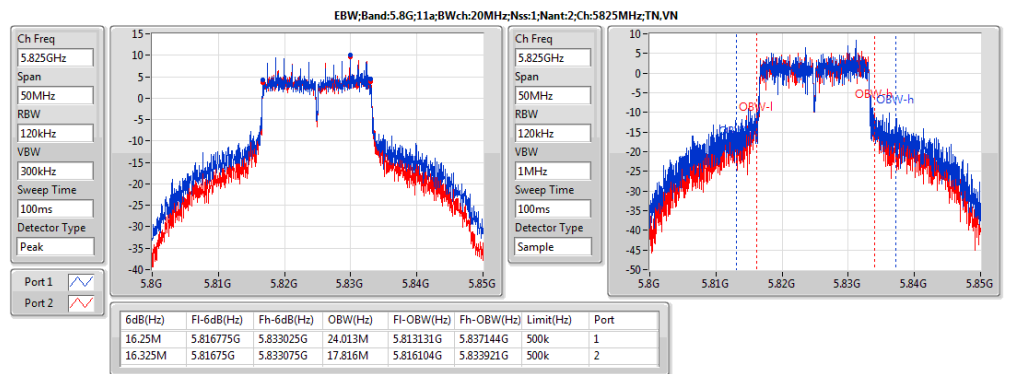
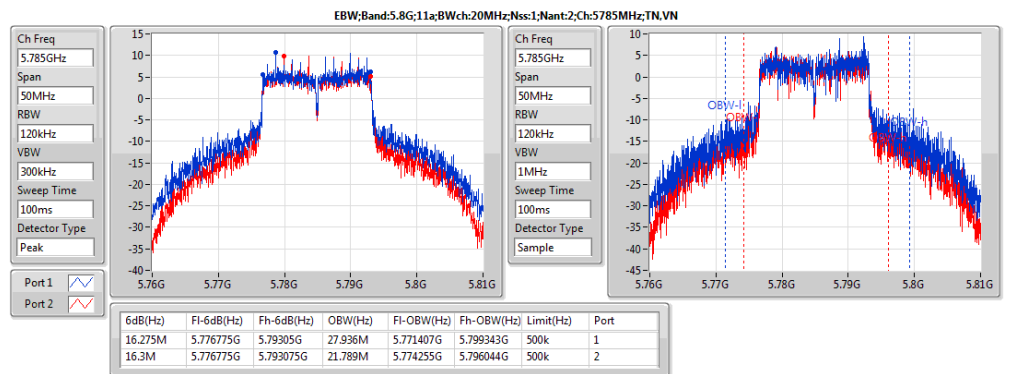
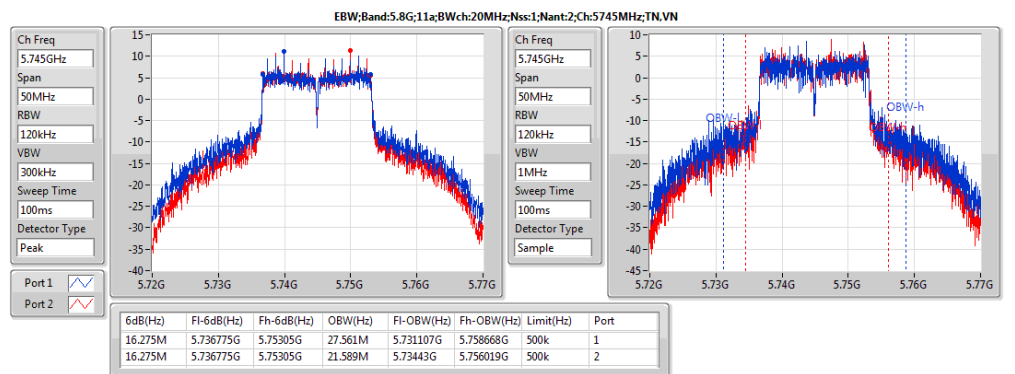
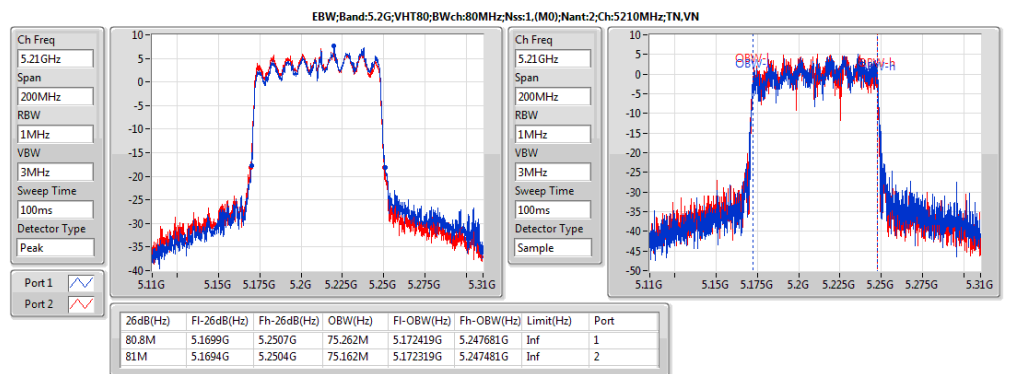
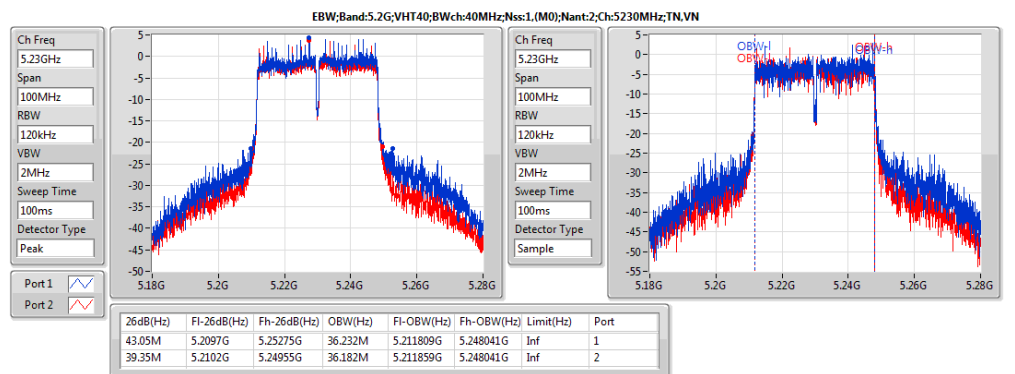
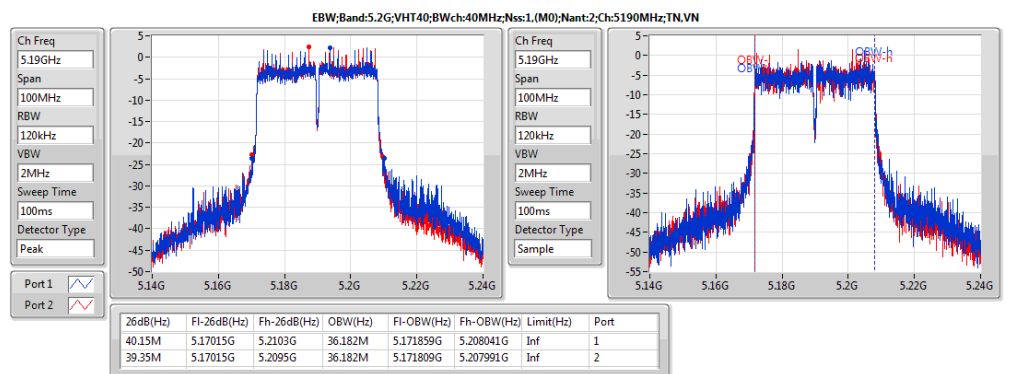
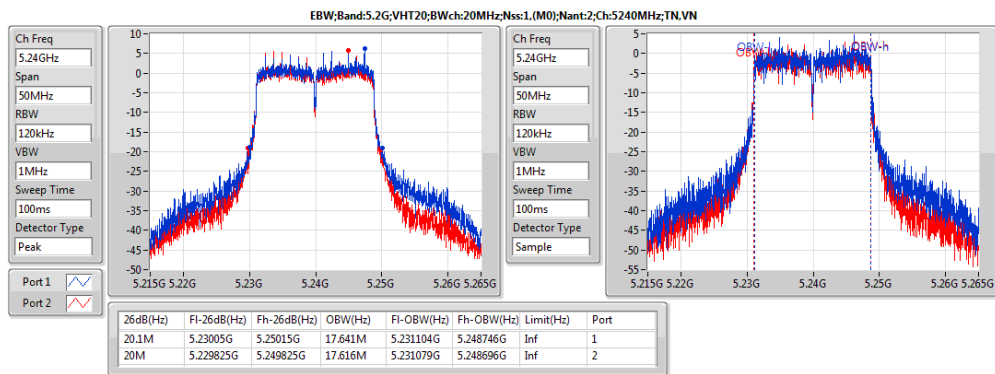
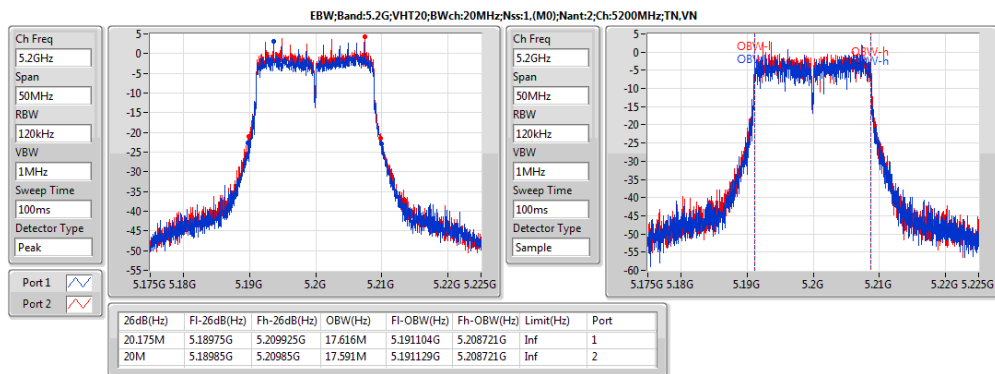
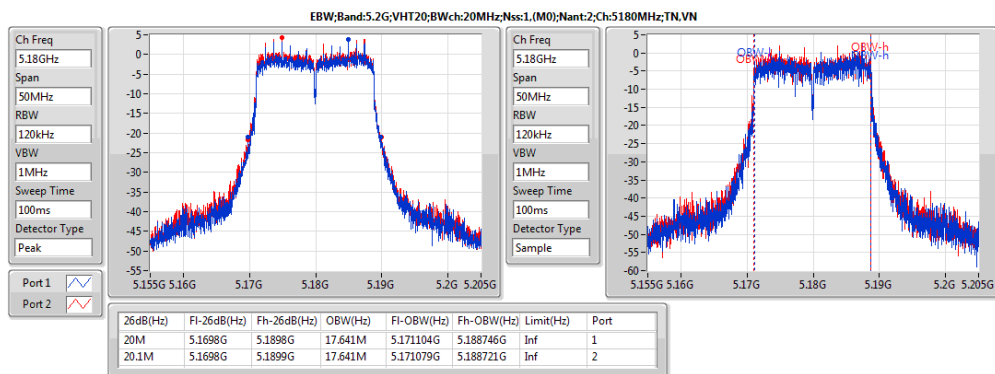
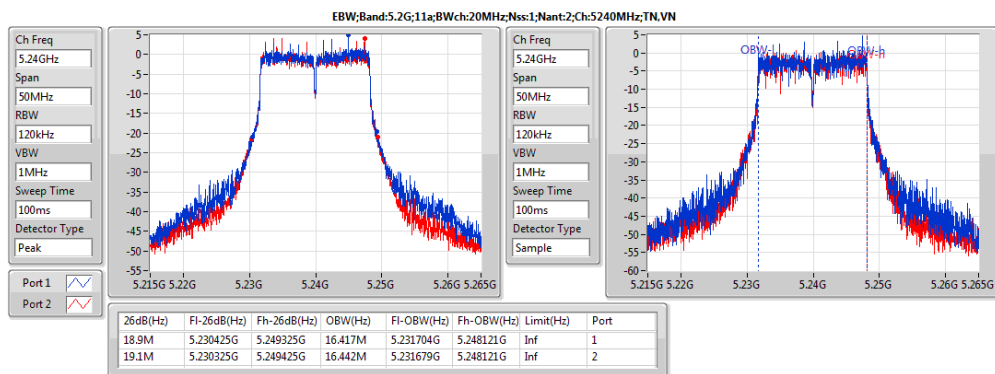
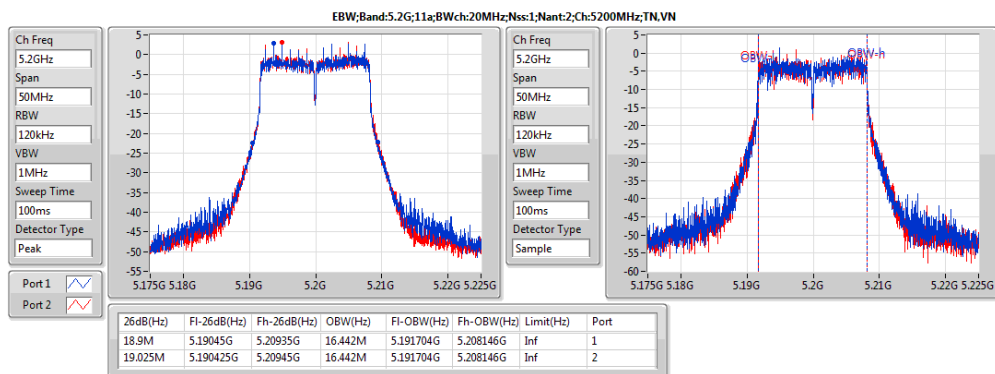
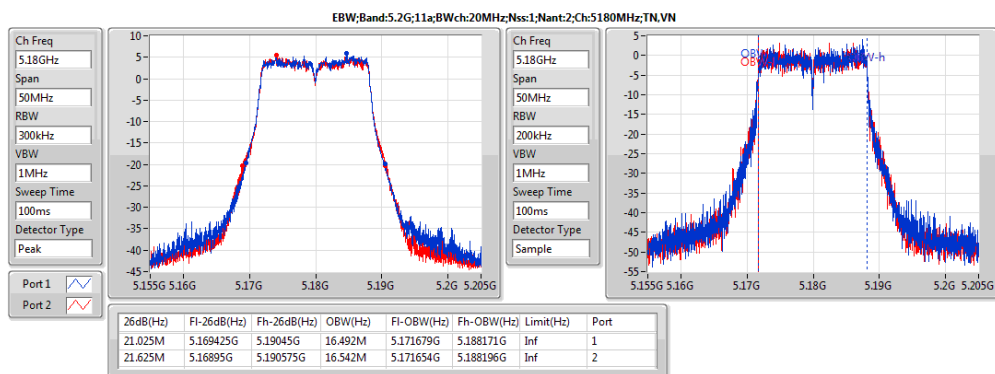
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx2	21.625M	16.542M	16M5D1D	18.9M	16.417M
5.2G;VHT20;Nss1,(M0);Ntx2	20.175M	17.641M	17M6D1D	20M	17.591M
5.2G;VHT40;Nss1,(M0);Ntx2	43.05M	36.232M	36M2D1D	39.35M	36.182M
5.2G;VHT80;Nss1,(M0);Ntx2	81M	75.262M	75M3D1D	80.8M	75.162M
5.8G;11a;Nss1;Ntx2	16.325M	27.936M	27M9D1D	16.25M	17.816M
5.8G;VHT20;Nss1,(M0);Ntx2	17.55M	26.637M	26M6D1D	16.9M	17.691M
5.8G;VHT40;Nss1,(M0);Ntx2	35.65M	48.226M	48M2D1D	35.25M	36.582M
5.8G;VHT80;Nss1,(M0);Ntx2	75.1M	76.062M	76M1D1D	75.1M	75.662M



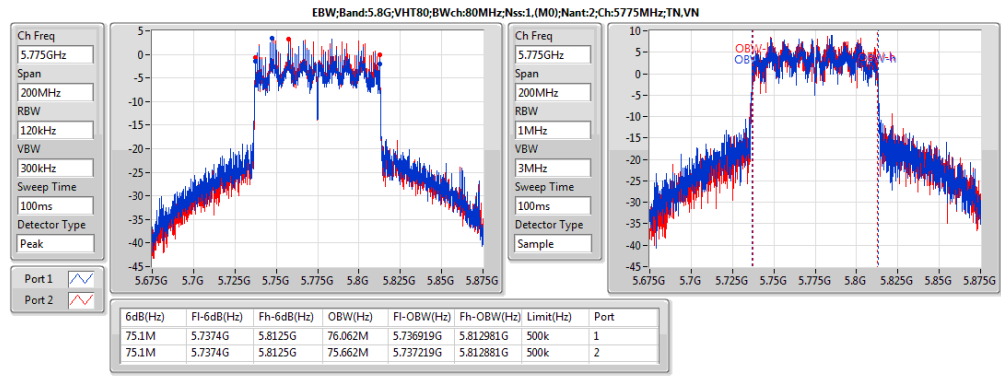
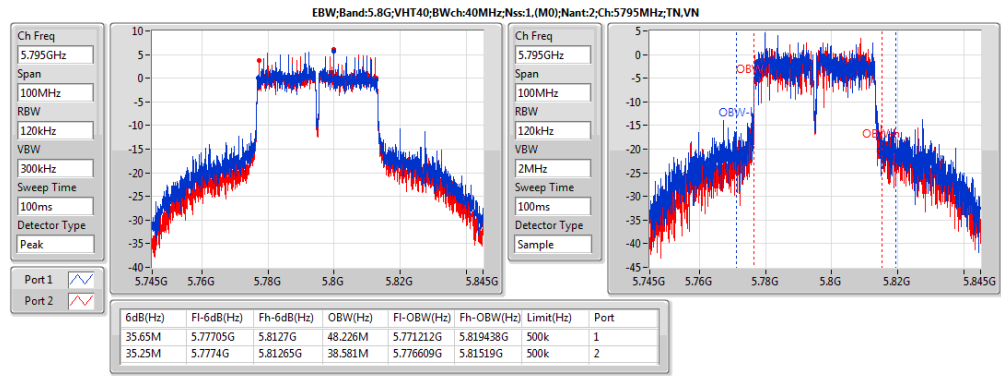
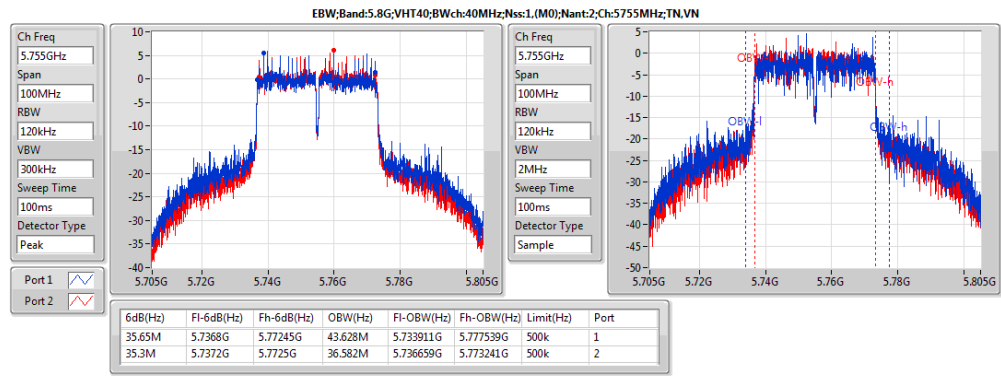
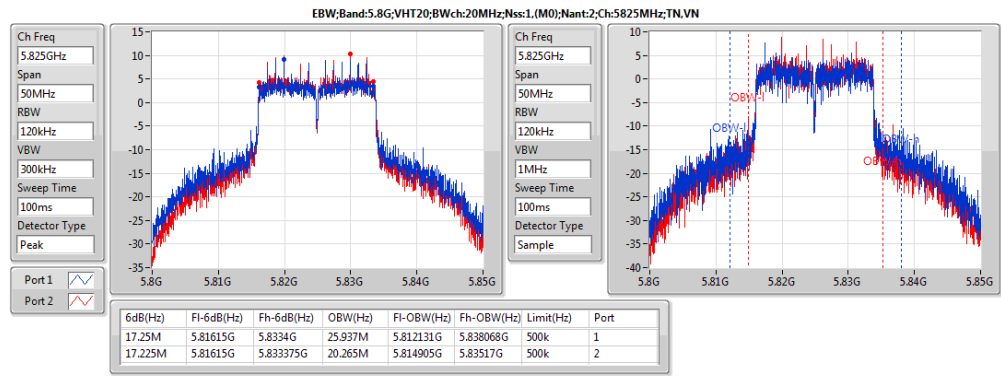
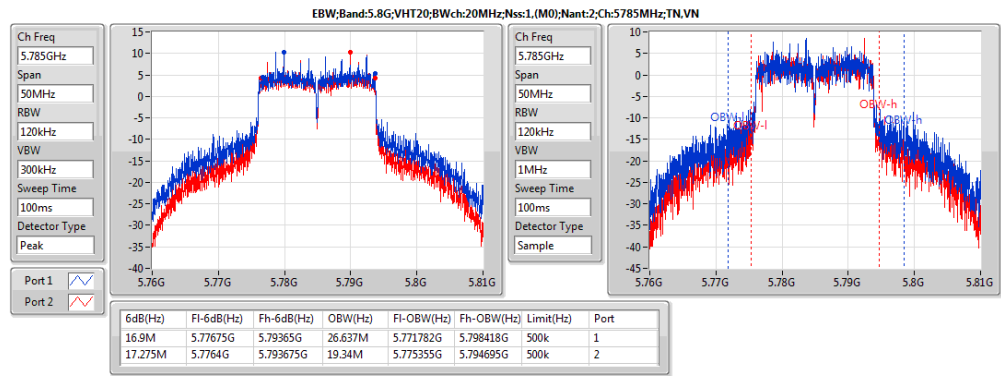
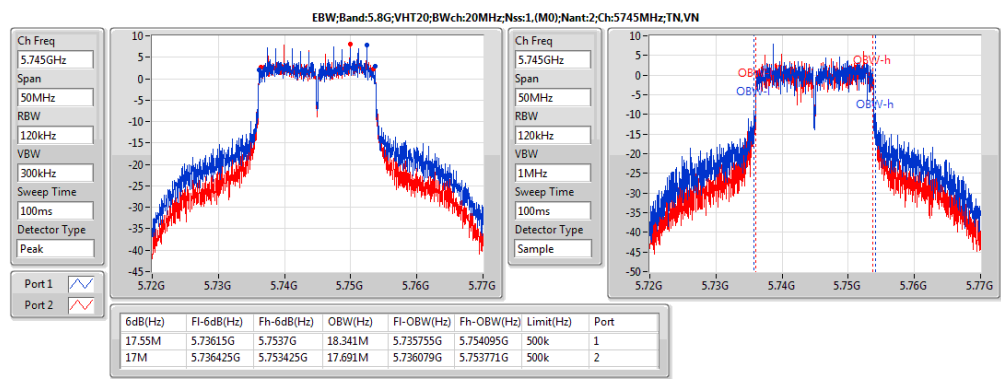
Result

Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)
5.2G;11a;Nss1;Ntx2;5180	Pass	Inf	21.025M	16.492M	21.625M	16.542M
5.2G;11a;Nss1;Ntx2;5200	Pass	Inf	18.9M	16.442M	19.025M	16.442M
5.2G;11a;Nss1;Ntx2;5240	Pass	Inf	18.9M	16.417M	19.1M	16.442M
5.2G;VHT20;Nss1,(M0);Ntx2;5180	Pass	Inf	20M	17.641M	20.1M	17.641M
5.2G;VHT20;Nss1,(M0);Ntx2;5200	Pass	Inf	20.175M	17.616M	20M	17.591M
5.2G;VHT20;Nss1,(M0);Ntx2;5240	Pass	Inf	20.1M	17.641M	20M	17.616M
5.2G;VHT40;Nss1,(M0);Ntx2;5190	Pass	Inf	40.15M	36.182M	39.35M	36.182M
5.2G;VHT40;Nss1,(M0);Ntx2;5230	Pass	Inf	43.05M	36.232M	39.35M	36.182M
5.2G;VHT80;Nss1,(M0);Ntx2;5210	Pass	Inf	80.8M	75.262M	81M	75.162M
5.8G;11a;Nss1;Ntx2;5745	Pass	500k	16.275M	27.561M	16.275M	21.589M
5.8G;11a;Nss1;Ntx2;5785	Pass	500k	16.275M	27.936M	16.3M	21.789M
5.8G;11a;Nss1;Ntx2;5825	Pass	500k	16.25M	24.013M	16.325M	17.816M
5.8G;VHT20;Nss1,(M0);Ntx2;5745	Pass	500k	17.55M	18.341M	17M	17.691M
5.8G;VHT20;Nss1,(M0);Ntx2;5785	Pass	500k	16.9M	26.637M	17.275M	19.34M
5.8G;VHT20;Nss1,(M0);Ntx2;5825	Pass	500k	17.25M	25.937M	17.225M	20.265M
5.8G;VHT40;Nss1,(M0);Ntx2;5755	Pass	500k	35.65M	43.628M	35.3M	36.582M
5.8G;VHT40;Nss1,(M0);Ntx2;5795	Pass	500k	35.65M	48.226M	35.25M	38.581M
5.8G;VHT80;Nss1,(M0);Ntx2;5775	Pass	500k	75.1M	76.062M	75.1M	75.662M





EBW Result





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;Nss1;Ntx2	18.85	0.07674	22.63	0.18323
5.2G;VHT20;Nss1,(M0);Ntx2	20.08	0.10186	23.86	0.24322
5.2G;VHT40;Nss1,(M0);Ntx2	22.89	0.19454	26.67	0.46452
5.2G;VHT80;Nss1,(M0);Ntx2	18.86	0.07691	22.64	0.18365
5.8G;11a;Nss1;Ntx2	24.36	0.2729	28.14	0.65163
5.8G;VHT20;Nss1,(M0);Ntx2	23.92	0.2466	27.70	0.58884
5.8G;VHT40;Nss1,(M0);Ntx2	23.00	0.19953	26.78	0.47643
5.8G;VHT80;Nss1,(M0);Ntx2	23.04	0.20137	26.82	0.48084



Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)
5.2G;11a;Nss1;Ntx2;5180	Pass	3.78	20.91	36.00	17.13	30.00	14.17	14.06
5.2G;11a;Nss1;Ntx2;5200	Pass	3.78	21.33	36.00	17.55	30.00	14.51	14.57
5.2G;11a;Nss1;Ntx2;5240	Pass	3.78	22.63	36.00	18.85	30.00	16.02	15.65
5.2G;VHT20;Nss1,(M0);Ntx2;5180	Pass	3.78	22.14	36.00	18.36	30.00	14.89	15.77
5.2G;VHT20;Nss1,(M0);Ntx2;5200	Pass	3.78	21.72	36.00	17.94	30.00	14.49	15.33
5.2G;VHT20;Nss1,(M0);Ntx2;5240	Pass	3.78	23.86	36.00	20.08	30.00	17.35	16.76
5.2G;VHT40;Nss1,(M0);Ntx2;5190	Pass	3.78	23.35	36.00	19.57	30.00	16.42	16.70
5.2G;VHT40;Nss1,(M0);Ntx2;5230	Pass	3.78	26.67	36.00	22.89	30.00	20.01	19.74
5.2G;VHT80;Nss1,(M0);Ntx2;5210	Pass	3.78	22.64	36.00	18.86	30.00	15.53	16.15
5.8G;11a;Nss1;Ntx2;5745	Pass	3.78	28.09	36.00	24.31	30.00	21.18	21.41
5.8G;11a;Nss1;Ntx2;5785	Pass	3.78	28.14	36.00	24.36	30.00	21.41	21.28
5.8G;11a;Nss1;Ntx2;5825	Pass	3.78	26.92	36.00	23.14	30.00	20.01	20.24
5.8G;VHT20;Nss1,(M0);Ntx2;5745	Pass	3.78	27.70	36.00	23.92	30.00	20.74	21.08
5.8G;VHT20;Nss1,(M0);Ntx2;5785	Pass	3.78	27.47	36.00	23.69	30.00	20.88	20.46
5.8G;VHT20;Nss1,(M0);Ntx2;5825	Pass	3.78	27.20	36.00	23.42	30.00	20.19	20.62
5.8G;VHT40;Nss1,(M0);Ntx2;5755	Pass	3.78	26.51	36.00	22.73	30.00	19.52	19.91
5.8G;VHT40;Nss1,(M0);Ntx2;5795	Pass	3.78	26.78	36.00	23.00	30.00	19.95	20.02
5.8G;VHT80;Nss1,(M0);Ntx2;5775	Pass	3.78	26.82	36.00	23.04	30.00	19.73	20.31



Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;Nss1;Ntx2	6.23	12.62
5.2G;VHT20;Nss1,(M0);Ntx2	7.24	13.63
5.2G;VHT40;Nss1,(M0);Ntx2	7.42	13.80
5.2G;VHT80;Nss1,(M0);Ntx2	2.36	8.74
5.8G;11a;Nss1;Ntx2	10.41	16.79
5.8G;VHT20;Nss1,(M0);Ntx2	9.07	15.46
5.8G;VHT40;Nss1,(M0);Ntx2	5.76	12.15
5.8G;VHT80;Nss1,(M0);Ntx2	-0.93	5.45



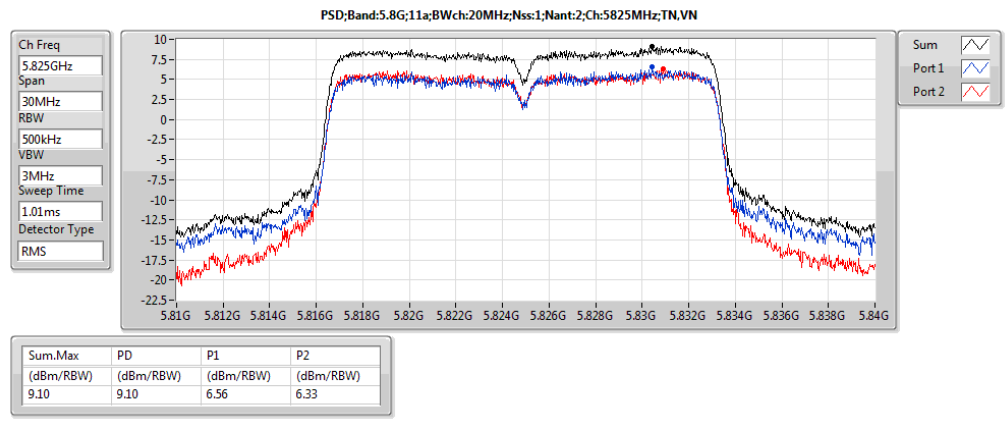
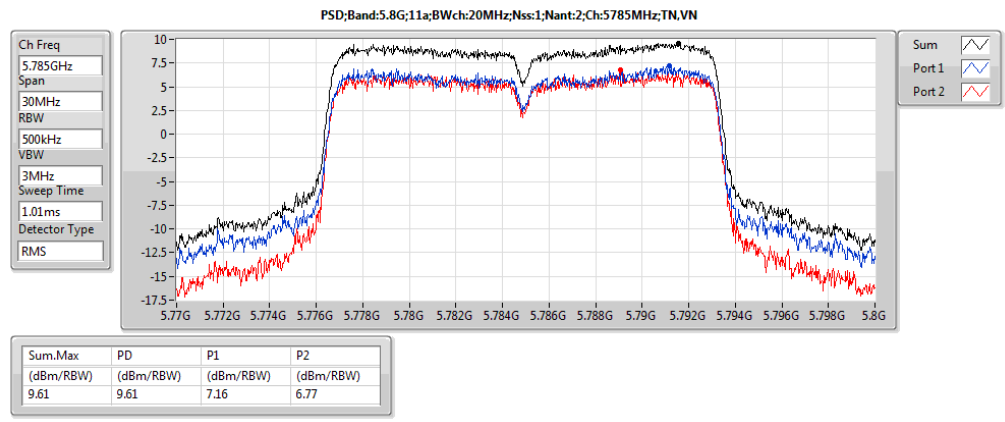
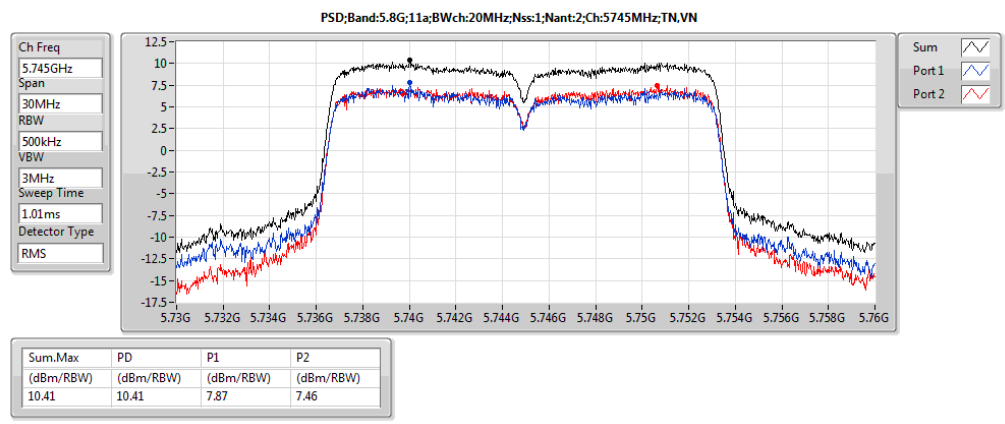
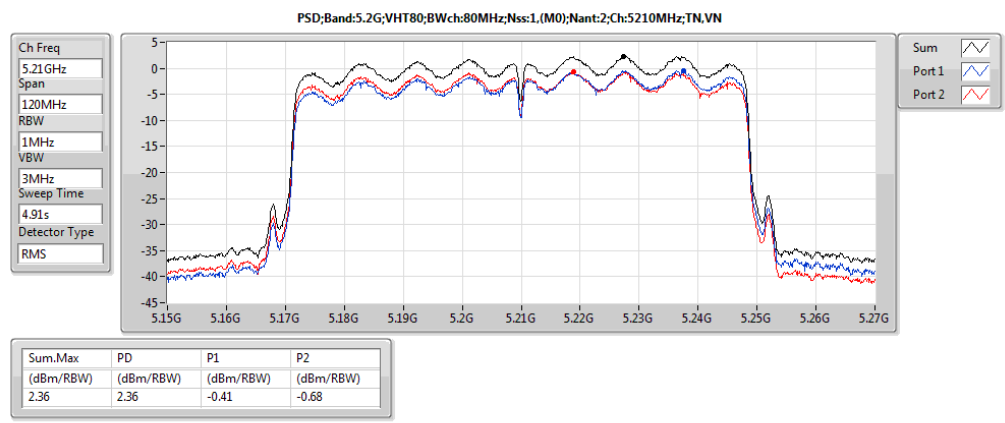
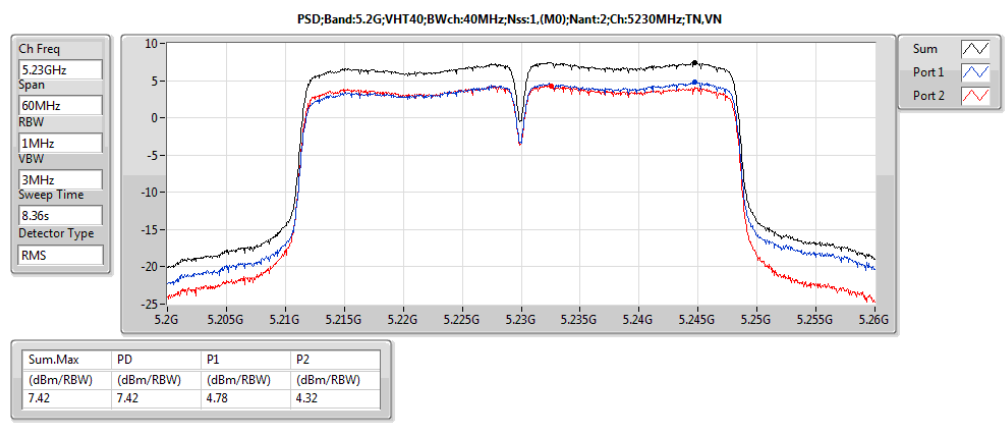
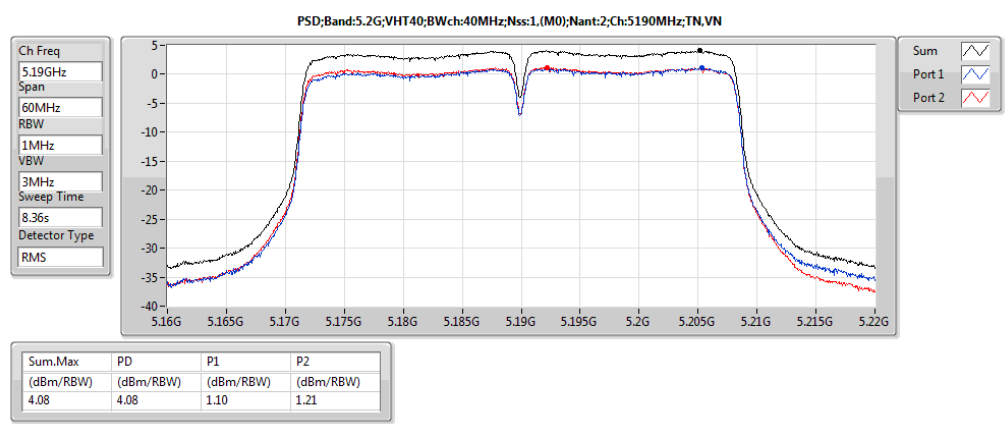
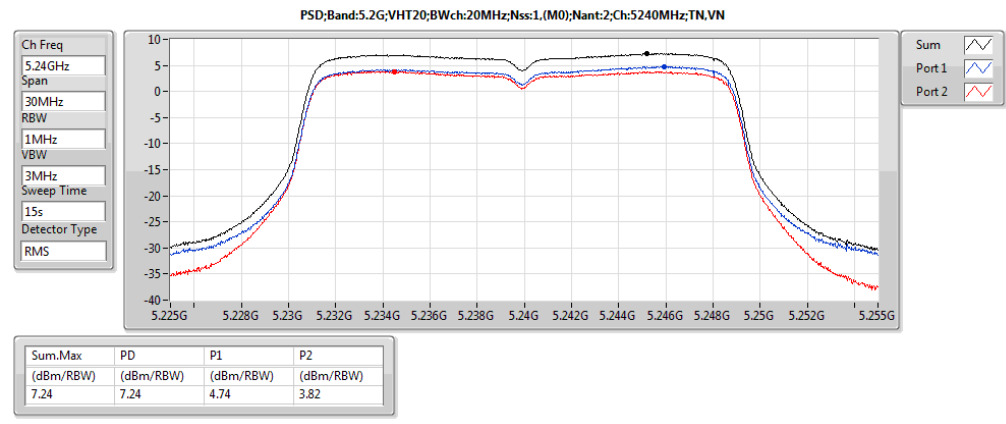
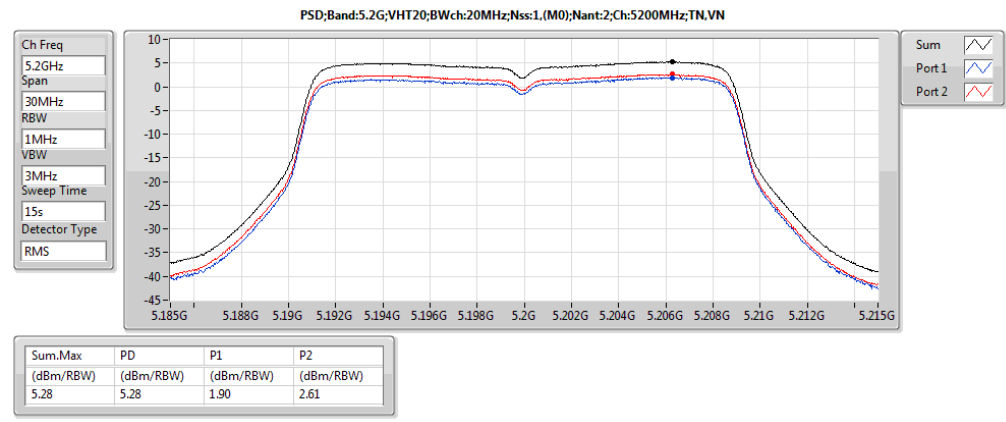
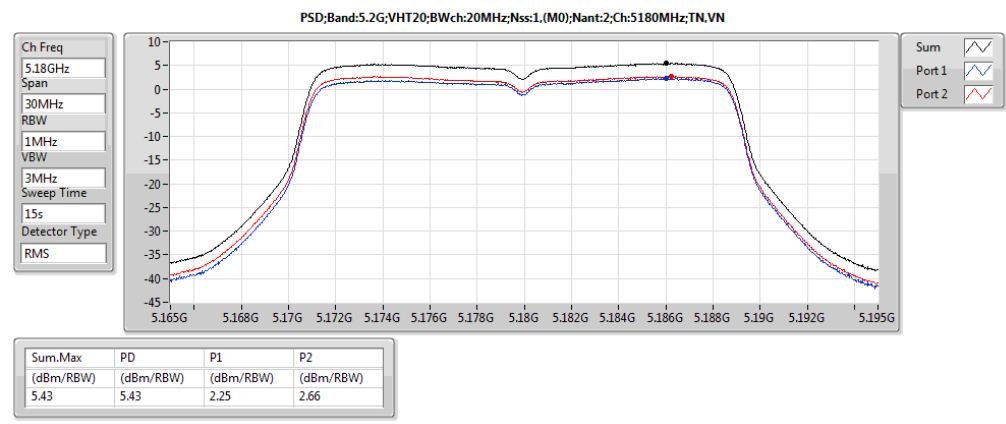
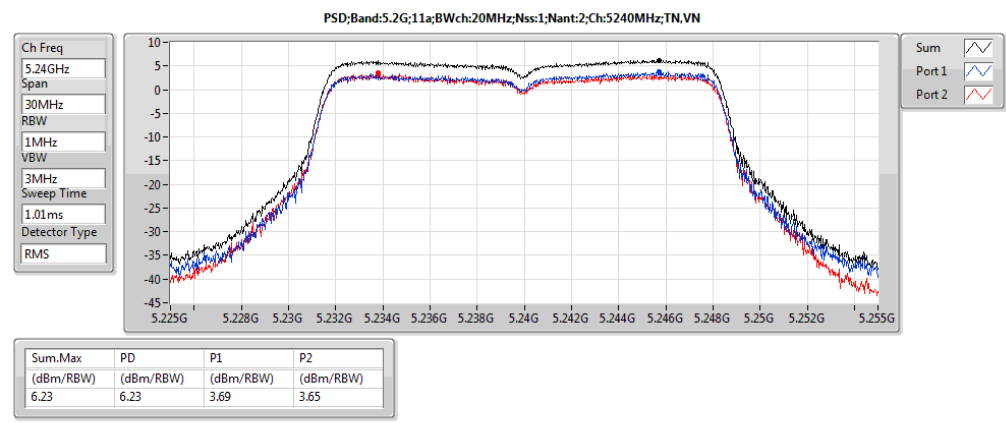
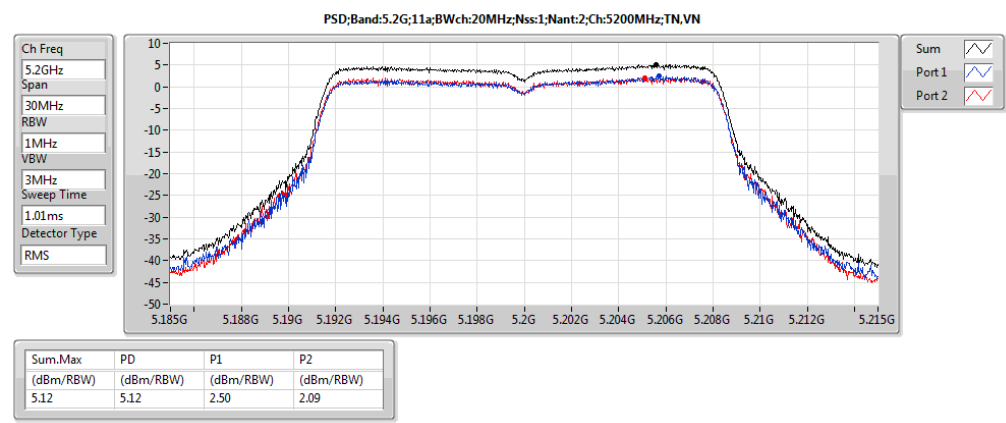
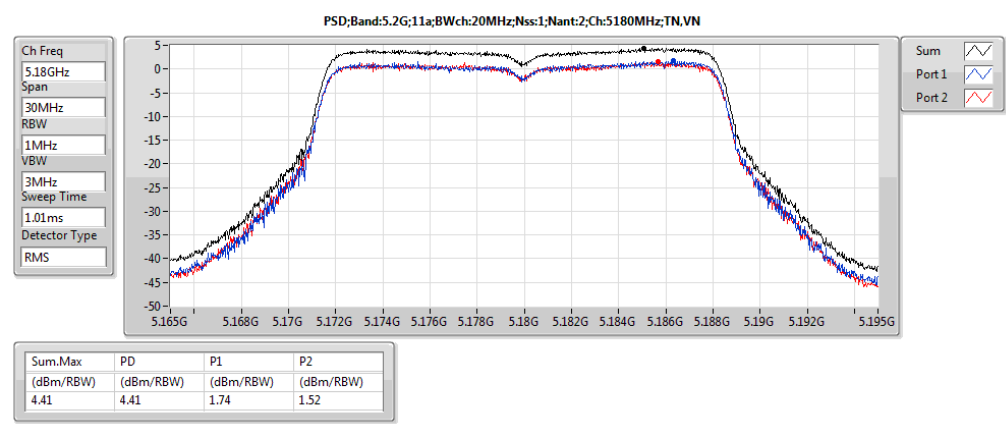
Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	EIRP.PD.Li m (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)
5.2G;11a;Nss1;Ntx2;5180	Pass	1M	1M	0.00	6.39	4.41	4.41	16.61	10.80	Inf	1.74	1.52
5.2G;11a;Nss1;Ntx2;5200	Pass	1M	1M	0.00	6.39	5.12	5.12	16.61	11.50	Inf	2.50	2.09
5.2G;11a;Nss1;Ntx2;5240	Pass	1M	1M	0.00	6.39	6.23	6.23	16.61	12.62	Inf	3.69	3.65
5.2G;VHT20;Nss1,(M0);Ntx2;5180	Pass	1M	1M	0.00	6.39	5.43	5.43	16.61	11.82	Inf	2.25	2.66
5.2G;VHT20;Nss1,(M0);Ntx2;5200	Pass	1M	1M	0.00	6.39	5.28	5.28	16.61	11.66	Inf	1.90	2.61
5.2G;VHT20;Nss1,(M0);Ntx2;5240	Pass	1M	1M	0.00	6.39	7.24	7.24	16.61	13.63	Inf	4.74	3.82
5.2G;VHT40;Nss1,(M0);Ntx2;5190	Pass	1M	1M	0.00	6.39	4.08	4.08	16.61	10.46	Inf	1.10	1.21
5.2G;VHT40;Nss1,(M0);Ntx2;5230	Pass	1M	1M	0.00	6.39	7.42	7.42	16.61	13.80	Inf	4.78	4.32
5.2G;VHT80;Nss1,(M0);Ntx2;5210	Pass	1M	1M	0.00	6.39	2.36	2.36	16.61	8.74	Inf	-0.41	-0.68
5.8G;11a;Nss1;Ntx2;5745	Pass	500k	500k	0.00	6.39	10.41	10.41	29.61	16.79	35.61	7.87	7.46
5.8G;11a;Nss1;Ntx2;5785	Pass	500k	500k	0.00	6.39	9.61	9.61	29.61	15.99	35.61	7.16	6.77
5.8G;11a;Nss1;Ntx2;5825	Pass	500k	500k	0.00	6.39	9.10	9.10	29.61	15.49	35.61	6.56	6.33
5.8G;VHT20;Nss1,(M0);Ntx2;5745	Pass	500k	500k	0.00	6.39	7.00	7.00	29.61	13.39	35.61	4.10	3.95
5.8G;VHT20;Nss1,(M0);Ntx2;5785	Pass	500k	500k	0.00	6.39	9.07	9.07	29.61	15.46	35.61	6.40	5.97
5.8G;VHT20;Nss1,(M0);Ntx2;5825	Pass	500k	500k	0.00	6.39	8.88	8.88	29.61	15.27	35.61	5.75	6.02
5.8G;VHT40;Nss1,(M0);Ntx2;5755	Pass	500k	500k	0.00	6.39	5.66	5.66	29.61	12.04	35.61	2.46	2.99
5.8G;VHT40;Nss1,(M0);Ntx2;5795	Pass	500k	500k	0.00	6.39	5.76	5.76	29.61	12.15	35.61	3.05	2.77
5.8G;VHT80;Nss1,(M0);Ntx2;5775	Pass	500k	500k	0.00	6.39	-0.93	-0.93	29.61	5.45	35.61	-4.08	-3.78



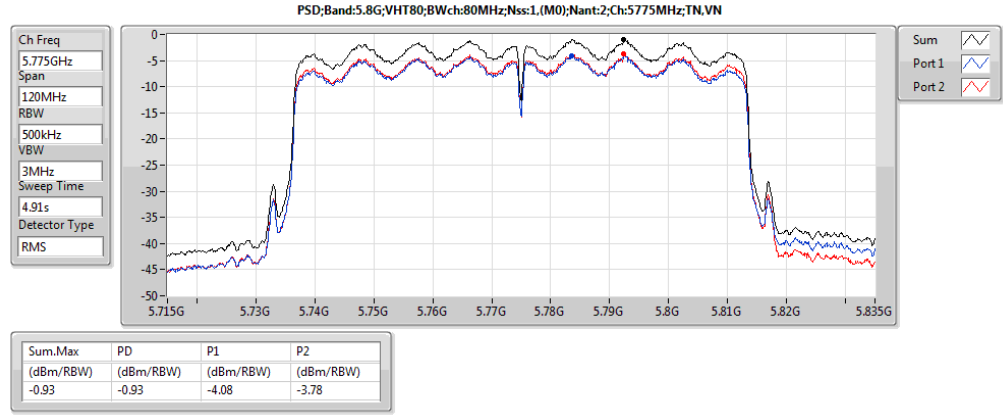
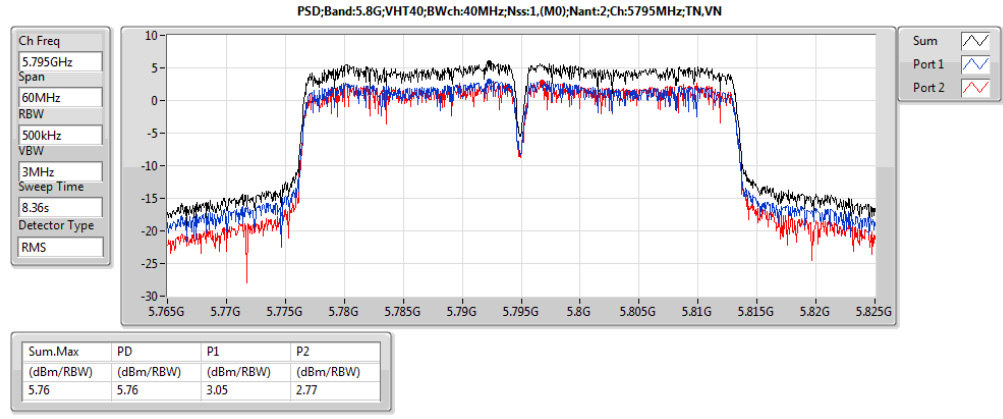
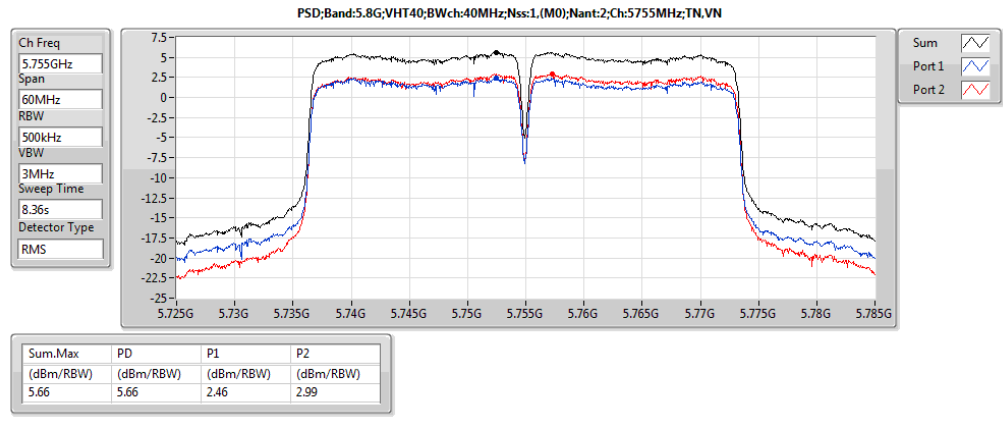
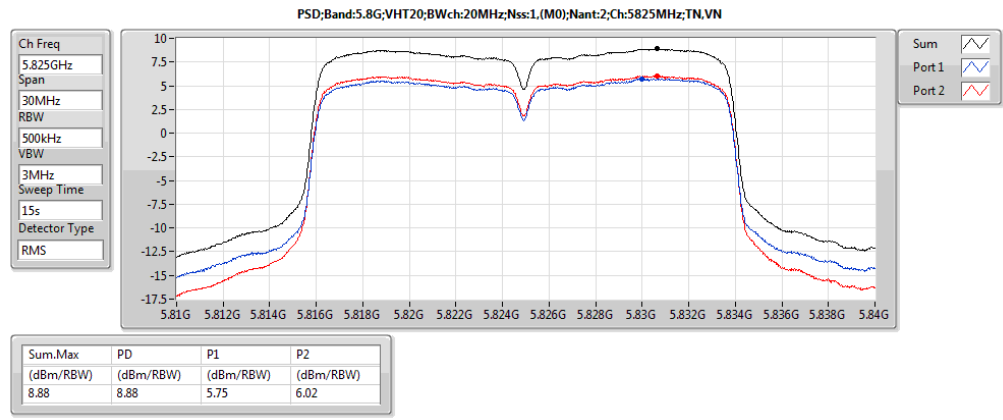
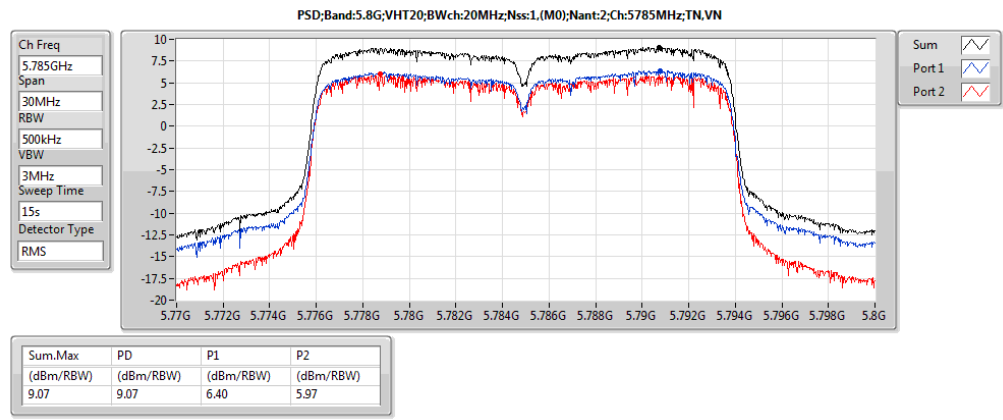
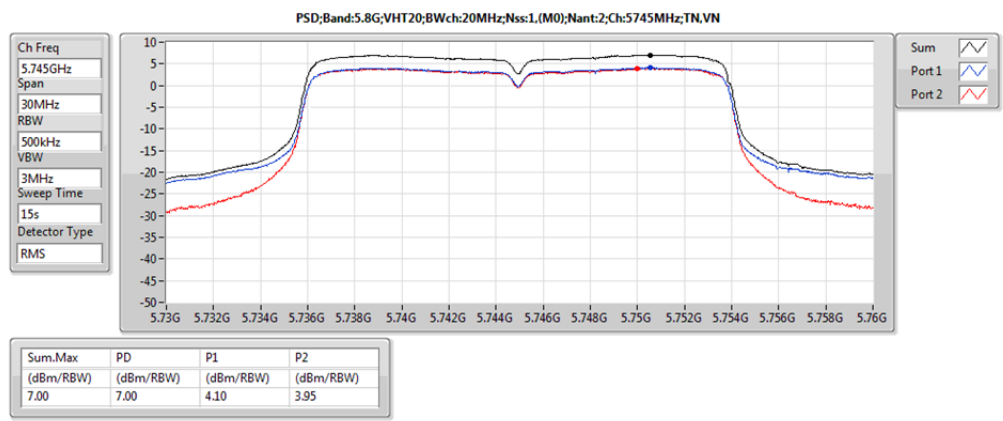
PSD Result

Appendix D





PSD Result





RSE below 1GHz Result																																																																																																																		
Operating Mode	2				Polarization				Horizontal																																																																																																									
Operating Function	Normal Link																																																																																																																	
Level (dBuV/m) Date: 2016-10-22 Time: 18:33:42																																																																																																																		
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>33.88</td><td>29.45</td><td>40.00</td><td>-10.55</td><td>33.42</td><td>1.24</td><td>23.27</td><td>28.48</td><td>100</td><td>170</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>250.19</td><td>31.11</td><td>46.00</td><td>-14.89</td><td>37.88</td><td>1.97</td><td>18.90</td><td>27.64</td><td>150</td><td>199</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>375.32</td><td>32.26</td><td>46.00</td><td>-13.74</td><td>36.40</td><td>2.31</td><td>21.68</td><td>28.13</td><td>100</td><td>213</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>500.45</td><td>38.47</td><td>46.00</td><td>-7.53</td><td>41.01</td><td>2.58</td><td>23.64</td><td>28.76</td><td>125</td><td>211</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>625.58</td><td>38.33</td><td>46.00</td><td>-7.67</td><td>38.92</td><td>2.91</td><td>25.26</td><td>28.76</td><td>100</td><td>138</td><td>Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>875.84</td><td>38.99</td><td>46.00</td><td>-7.01</td><td>36.29</td><td>3.41</td><td>27.40</td><td>28.11</td><td>125</td><td>329</td><td>Peak</td><td>HORIZONTAL</td></tr></table>														Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		1	33.88	29.45	40.00	-10.55	33.42	1.24	23.27	28.48	100	170	Peak	HORIZONTAL	2	250.19	31.11	46.00	-14.89	37.88	1.97	18.90	27.64	150	199	Peak	HORIZONTAL	3	375.32	32.26	46.00	-13.74	36.40	2.31	21.68	28.13	100	213	Peak	HORIZONTAL	4	500.45	38.47	46.00	-7.53	41.01	2.58	23.64	28.76	125	211	Peak	HORIZONTAL	5	625.58	38.33	46.00	-7.67	38.92	2.91	25.26	28.76	100	138	Peak	HORIZONTAL	6	875.84	38.99	46.00	-7.01	36.29	3.41	27.40	28.11	125	329	Peak	HORIZONTAL
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																							
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg																																																																																																								
1	33.88	29.45	40.00	-10.55	33.42	1.24	23.27	28.48	100	170	Peak	HORIZONTAL																																																																																																						
2	250.19	31.11	46.00	-14.89	37.88	1.97	18.90	27.64	150	199	Peak	HORIZONTAL																																																																																																						
3	375.32	32.26	46.00	-13.74	36.40	2.31	21.68	28.13	100	213	Peak	HORIZONTAL																																																																																																						
4	500.45	38.47	46.00	-7.53	41.01	2.58	23.64	28.76	125	211	Peak	HORIZONTAL																																																																																																						
5	625.58	38.33	46.00	-7.67	38.92	2.91	25.26	28.76	100	138	Peak	HORIZONTAL																																																																																																						
6	875.84	38.99	46.00	-7.01	36.29	3.41	27.40	28.11	125	329	Peak	HORIZONTAL																																																																																																						
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																																		

RSE below 1GHz Result																																																																																																												
Operating Mode	2				Power Phase				Vertical																																																																																																			
Operating Function	Normal Link																																																																																																											
Level (dBuV/m) Date: 2016-10-22 Time: 18:29:57																																																																																																												
<table><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>CableAntenna</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phase</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>53.28</td><td>31.70</td><td>40.00</td><td>-8.30</td><td>44.62</td><td>1.35</td><td>14.17</td><td>28.44</td><td>100</td><td>136 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>375.32</td><td>31.29</td><td>46.00</td><td>-14.71</td><td>35.43</td><td>2.31</td><td>21.68</td><td>28.13</td><td>100</td><td>239 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>500.45</td><td>37.76</td><td>46.00</td><td>-8.24</td><td>40.30</td><td>2.58</td><td>23.64</td><td>28.76</td><td>125</td><td>94 Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>625.58</td><td>42.35</td><td>46.00</td><td>-3.65</td><td>42.94</td><td>2.91</td><td>25.26</td><td>28.76</td><td>150</td><td>264 QP</td><td>VERTICAL</td></tr><tr><td>5</td><td>750.71</td><td>35.26</td><td>46.00</td><td>-10.74</td><td>34.55</td><td>3.22</td><td>26.00</td><td>28.51</td><td>100</td><td>182 Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>875.84</td><td>40.33</td><td>46.00</td><td>-5.67</td><td>37.63</td><td>3.41</td><td>27.40</td><td>28.11</td><td>125</td><td>109 Peak</td><td>VERTICAL</td></tr></table>														Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase		MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg		1	53.28	31.70	40.00	-8.30	44.62	1.35	14.17	28.44	100	136 Peak	VERTICAL	2	375.32	31.29	46.00	-14.71	35.43	2.31	21.68	28.13	100	239 Peak	VERTICAL	3	500.45	37.76	46.00	-8.24	40.30	2.58	23.64	28.76	125	94 Peak	VERTICAL	4	625.58	42.35	46.00	-3.65	42.94	2.91	25.26	28.76	150	264 QP	VERTICAL	5	750.71	35.26	46.00	-10.74	34.55	3.22	26.00	28.51	100	182 Peak	VERTICAL	6	875.84	40.33	46.00	-5.67	37.63	3.41	27.40	28.11	125	109 Peak	VERTICAL
	Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																	
	MHz	dBuV/m	dBuV/m	dB	dBuV	Loss	Factor	Factor	cm	deg																																																																																																		
1	53.28	31.70	40.00	-8.30	44.62	1.35	14.17	28.44	100	136 Peak	VERTICAL																																																																																																	
2	375.32	31.29	46.00	-14.71	35.43	2.31	21.68	28.13	100	239 Peak	VERTICAL																																																																																																	
3	500.45	37.76	46.00	-8.24	40.30	2.58	23.64	28.76	125	94 Peak	VERTICAL																																																																																																	
4	625.58	42.35	46.00	-3.65	42.94	2.91	25.26	28.76	150	264 QP	VERTICAL																																																																																																	
5	750.71	35.26	46.00	-10.74	34.55	3.22	26.00	28.51	100	182 Peak	VERTICAL																																																																																																	
6	875.84	40.33	46.00	-5.67	37.63	3.41	27.40	28.11	125	109 Peak	VERTICAL																																																																																																	
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																												



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;VHT20;Nss1;(M0);Ntx2;5200;TX	Pass	PK	10.39768G	68.10	68.20	-0.10	15.56	3	V	43	1.80	-
5.8G;.11a;Nss1;Ntx2;5825;TX	Pass	AV	11.65G	53.79	54.00	-0.11	11.86	3	V	305	1.69	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	5.12G	44.22	54.00	-9.78	3.84	3	H	134	2.19	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	5.186G	94.56	Inf	-Inf	3.97	3	H	134	2.19	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	10.35996G	50.99	Inf	-Inf	10.47	3	H	227	1.85	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	15.54248G	44.32	54.00	-9.68	13.58	3	H	1	1.69	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	5.1168G	56.70	74.00	-17.30	3.83	3	H	134	2.19	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	5.1852G	104.14	Inf	-Inf	3.97	3	H	134	2.19	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	10.35968G	64.02	68.20	-4.18	10.47	3	H	227	1.85	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	15.53592G	57.81	74.00	-16.19	13.59	3	H	1	1.69	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	5.1472G	43.58	54.00	-10.42	3.89	3	V	193	2.48	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	5.1872G	86.07	Inf	-Inf	3.97	3	V	193	2.48	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	10.36G	54.26	Inf	-Inf	10.47	3	V	108	1.90	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	AV	15.54188G	43.16	54.00	-10.84	13.58	3	V	71	1.78	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	5.1356G	56.82	74.00	-17.18	3.87	3	V	193	2.48	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	5.1848G	95.55	Inf	-Inf	3.97	3	V	193	2.48	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	10.36072G	67.32	68.20	-0.28	10.47	3	V	108	1.90	-
5.2G;11a;Nss1;Ntx2;5180;TX	Pass	PK	15.5392G	57.10	74.00	-16.90	13.58	3	V	71	1.78	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	5.12G	44.49	54.00	-9.51	3.84	3	H	138	2.28	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	5.2052G	95.44	Inf	-Inf	4.01	3	H	138	2.28	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	10.4G	51.55	Inf	-Inf	10.54	3	H	227	1.85	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	15.59916G	44.54	54.00	-9.46	13.51	3	H	2	1.64	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	5.1184G	57.30	74.00	-16.70	3.84	3	H	138	2.28	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	5.2052G	104.95	Inf	-Inf	4.01	3	H	138	2.28	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	10.40084G	64.71	68.20	-3.49	10.54	3	H	227	1.85	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	15.6082G	58.23	74.00	-15.77	13.50	3	H	2	1.64	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	5.14G	43.66	54.00	-10.34	3.88	3	V	193	2.34	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	5.206G	87.77	Inf	-Inf	4.01	3	V	193	2.34	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	10.40004G	54.88	Inf	-Inf	10.54	3	V	106	1.95	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	AV	15.60224G	46.09	54.00	-7.91	13.51	3	V	69	2.07	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	5.1436G	56.16	74.00	-17.84	3.89	3	V	193	2.34	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	5.2052G	97.27	Inf	-Inf	4.01	3	V	193	2.34	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	10.4008G	68.01	68.20	-0.19	10.54	3	V	106	1.95	-
5.2G;11a;Nss1;Ntx2;5200;TX	Pass	PK	15.60516G	60.61	74.00	-13.39	13.51	3	V	69	2.07	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	5.1194G	43.91	54.00	-10.09	3.84	3	H	134	2.36	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	5.2472G	97.52	Inf	-Inf	4.10	3	H	134	2.36	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	5.3762G	44.75	54.00	-9.25	4.35	3	H	134	2.36	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	10.48G	51.35	Inf	-Inf	10.67	3	H	226	1.70	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	15.71984G	43.15	54.00	-10.85	13.37	3	H	57	1.50	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	5.1098G	56.42	74.00	-17.58	3.82	3	H	134	2.36	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	5.2448G	106.88	Inf	-Inf	4.09	3	H	134	2.36	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	5.3816G	56.81	74.00	-17.19	4.37	3	H	134	2.36	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	10.48078G	63.98	68.20	-4.22	10.67	3	H	226	1.70	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	15.7226G	57.17	74.00	-16.83	13.37	3	H	57	1.50	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	5.123G	43.59	54.00	-10.41	3.85	3	V	198	2.53	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	5.2472G	89.03	Inf	-Inf	4.10	3	V	198	2.53	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	5.3852G	43.85	54.00	-10.15	4.37	3	V	198	2.53	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	10.48018G	54.97	Inf	-Inf	10.67	3	V	107	1.89	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	AV	15.7124G	43.43	54.00	-10.57	13.38	3	V	153	1.50	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	5.1398G	56.09	74.00	-17.91	3.88	3	V	198	2.53	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	5.2472G	98.41	Inf	-Inf	4.10	3	V	198	2.53	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	5.3738G	56.16	74.00	-17.84	4.35	3	V	198	2.53	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	10.48066G	67.85	68.20	-0.15	10.67	3	V	107	1.89	-
5.2G;11a;Nss1;Ntx2;5240;TX	Pass	PK	15.72568G	57.40	74.00	-16.60	13.37	3	V	153	1.50	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	5.0996G	49.78	54.00	-4.22	7.59	3	H	178	2.17	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	5.1864G	97.94	Inf	-Inf	7.79	3	H	178	2.17	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	10.3588G	51.19	Inf	-Inf	15.53	3	H	132	1.67	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	15.52128G	47.43	54.00	-6.57	17.38	3	H	230	1.22	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	5.0932G	61.24	74.00	-12.76	7.58	3	H	178	2.17	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	5.1864G	107.57	Inf	-Inf	7.79	3	H	178	2.17	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	10.35544G	64.74	68.20	-3.46	15.53	3	H	132	1.67	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	15.55192G	60.37	74.00	-13.63	17.31	3	H	230	1.22	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	5.0944G	48.39	54.00	-5.61	7.58	3	V	151	2.76	-



Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	5.1864G	93.74	Inf	-Inf	7.79	3	V	151	2.76	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	10.36048G	54.73	Inf	-Inf	15.53	3	V	42	1.78	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	AV	15.52064G	47.57	54.00	-6.43	17.38	3	V	241	1.47	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	5.0804G	60.31	74.00	-13.69	7.55	3	V	151	2.76	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	5.1864G	103.44	Inf	-Inf	7.79	3	V	151	2.76	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	10.35872G	68.09	68.20	-0.11	15.53	3	V	42	1.78	-
5.2G;VHT20;Nss1,(M0);Ntx2;5180;TX	Pass	PK	15.54104G	60.75	74.00	-13.25	17.33	3	V	241	1.47	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	5.12G	48.48	54.00	-5.52	7.64	3	H	173	1.00	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	5.2064G	98.55	Inf	-Inf	7.83	3	H	173	1.00	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	10.39912G	49.94	Inf	-Inf	15.56	3	H	55	1.70	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	10.4G	47.09	Inf	-Inf	15.57	3	H	156	2.10	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	5.1148G	60.51	74.00	-13.49	7.63	3	H	173	1.00	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	5.2064G	108.33	Inf	-Inf	7.83	3	H	173	1.00	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	10.39536G	63.43	68.20	-4.77	15.56	3	H	55	1.70	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	10.39872G	60.08	68.20	-8.12	15.56	3	H	156	2.10	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	5.1116G	48.28	54.00	-5.72	7.62	3	V	148	2.64	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	5.206G	93.88	Inf	-Inf	7.83	3	V	148	2.64	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	10.39792G	53.88	Inf	-Inf	15.56	3	V	43	1.80	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	AV	15.60824G	47.64	54.00	-6.36	17.18	3	V	204	2.26	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	5.1244G	61.46	74.00	-12.54	7.65	3	V	148	2.64	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	5.2064G	103.62	Inf	-Inf	7.83	3	V	148	2.64	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	10.39768G	68.10	68.20	-0.10	15.56	3	V	43	1.80	-
5.2G;VHT20;Nss1,(M0);Ntx2;5200;TX	Pass	PK	15.602G	61.36	74.00	-12.64	17.19	3	V	204	2.26	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	5.1412G	47.88	54.00	-6.12	7.69	3	H	185	2.08	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	5.2464G	100.78	Inf	-Inf	7.89	3	H	185	2.08	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	10.48064G	51.02	Inf	-Inf	15.64	3	H	60	2.29	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	15.73608G	46.89	54.00	-7.11	16.88	3	H	182	1.80	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	5.1468G	60.50	74.00	-13.50	7.70	3	H	185	2.08	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	5.2464G	110.66	Inf	-Inf	7.89	3	H	185	2.08	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	10.47776G	65.05	68.20	-3.15	15.63	3	H	60	2.29	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	15.71896G	60.88	74.00	-13.12	16.92	3	H	182	1.80	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	5.1432G	47.94	54.00	-6.06	7.69	3	V	144	2.71	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	5.2464G	96.11	Inf	-Inf	7.89	3	V	144	2.71	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	10.48056G	53.86	Inf	-Inf	15.63	3	V	43	1.77	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	AV	15.70232G	46.89	54.00	-7.11	16.96	3	V	158	1.48	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	5.1444G	60.58	74.00	-13.42	7.70	3	V	144	2.71	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	5.2464G	105.65	Inf	-Inf	7.89	3	V	144	2.71	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	10.4776G	68.14	68.20	-0.48	15.63	3	V	43	1.77	-
5.2G;VHT20;Nss1,(M0);Ntx2;5240;TX	Pass	PK	15.72G	60.57	74.00	-13.43	16.92	3	V	158	1.48	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	5.1484G	53.82	54.00	-0.18	7.71	3	H	173	1.01	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	5.1918G	97.74	Inf	-Inf	7.80	3	H	173	1.01	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	10.38048G	50.68	Inf	-Inf	14.74	3	H	325	2.42	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	15.57408G	48.27	54.00	-5.73	17.44	3	H	293	2.13	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	5.1496G	67.88	74.00	-6.12	7.71	3	H	173	1.01	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	5.1994G	107.33	Inf	-Inf	7.82	3	H	173	1.01	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	10.37868G	63.19	68.20	-5.01	14.74	3	H	325	2.42	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	15.57618G	60.51	74.00	-13.49	17.43	3	H	293	2.13	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	5.1484G	53.18	54.00	-0.82	7.71	3	V	151	2.73	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	5.1916G	95.39	Inf	-Inf	7.80	3	V	151	2.73	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	10.38056G	54.71	Inf	-Inf	14.74	3	V	137	2.31	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	AV	15.56184G	48.52	54.00	-5.48	17.49	3	V	133	2.50	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	5.1498G	66.87	74.00	-7.13	7.71	3	V	151	2.73	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	5.188G	104.77	Inf	-Inf	7.79	3	V	151	2.73	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	10.384G	67.78	68.20	-0.42	14.74	3	V	137	2.31	-
5.2G;VHT40;Nss1,(M0);Ntx2;5190;TX	Pass	PK	15.57492G	60.41	74.00	-13.59	17.44	3	V	133	2.50	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	AV	5.1496G	50.05	54.00	-3.95	7.71	3	H	187	2.25	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	AV	5.2444G	102.21	Inf	-Inf	7.89	3	H	187	2.25	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	AV	10.45364G	53.56	Inf	-Inf	14.78	3	H	147	1.78	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	AV	15.67656G	47.66	54.00	-6.34	17.04	3	H	346	1.67	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	PK	5.1496G	61.68	74.00	-12.32	7.71	3	H	187	2.25	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	PK	5.2396G	111.71	Inf	-Inf	7.88	3	H	187	2.25	-
5.2G;VHT40;Nss1,(M0);Ntx2;5230;TX	Pass	PK	10.45652G	66.65	68.20	-1.55	14.78	3	H	147	1.78	-



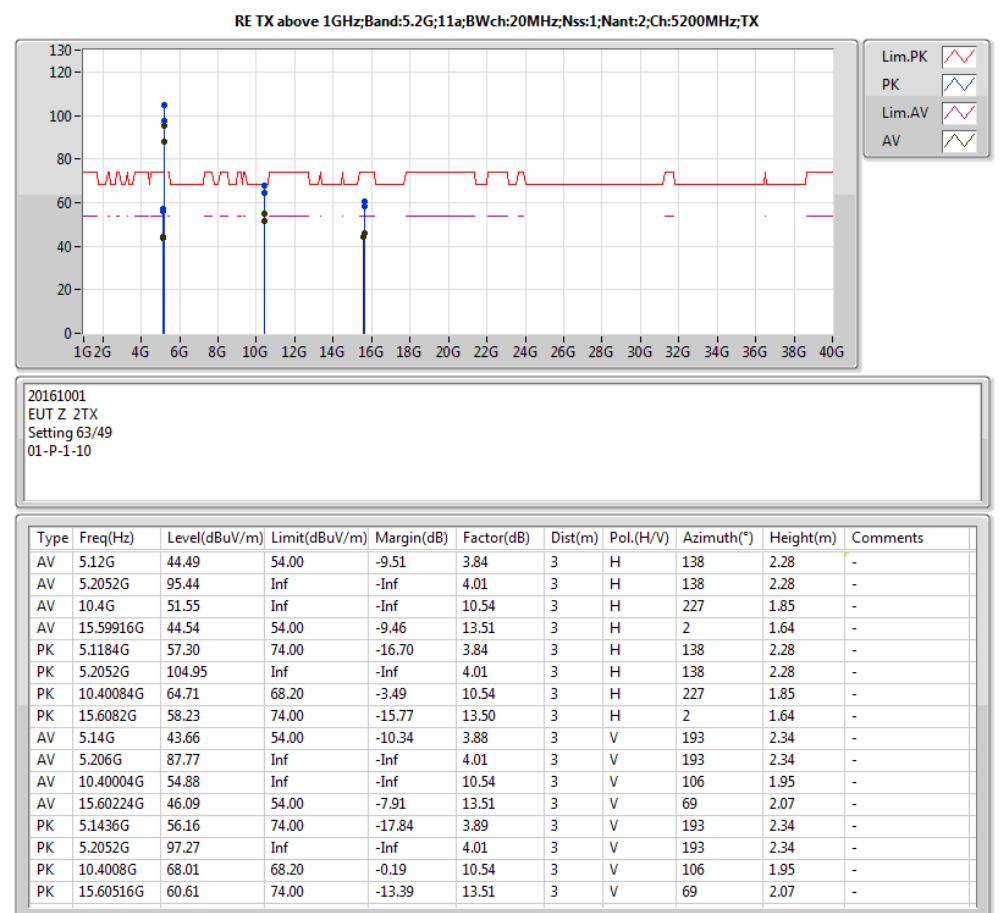
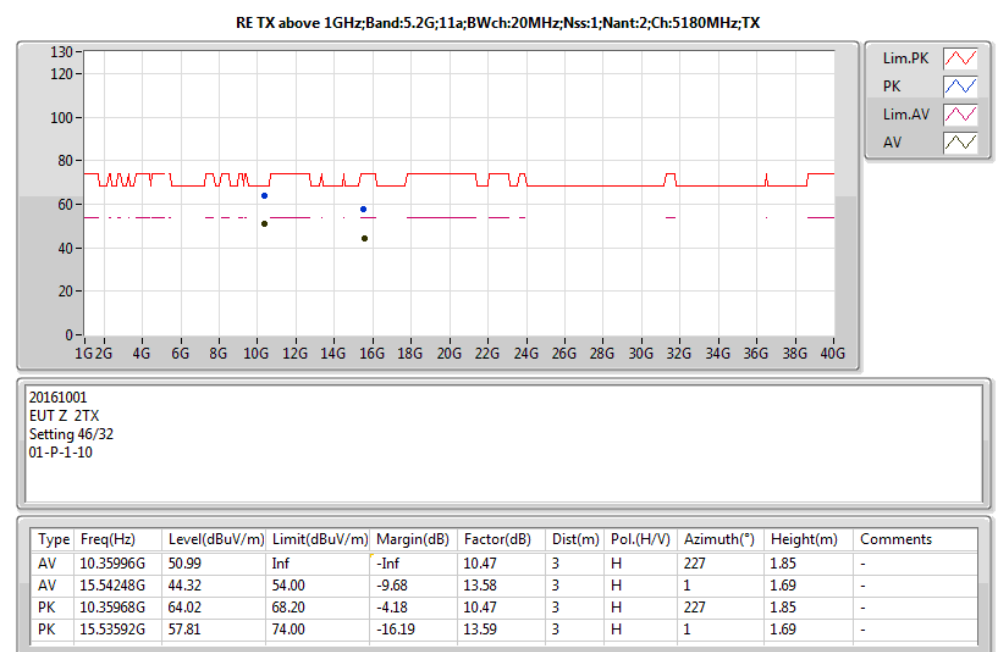
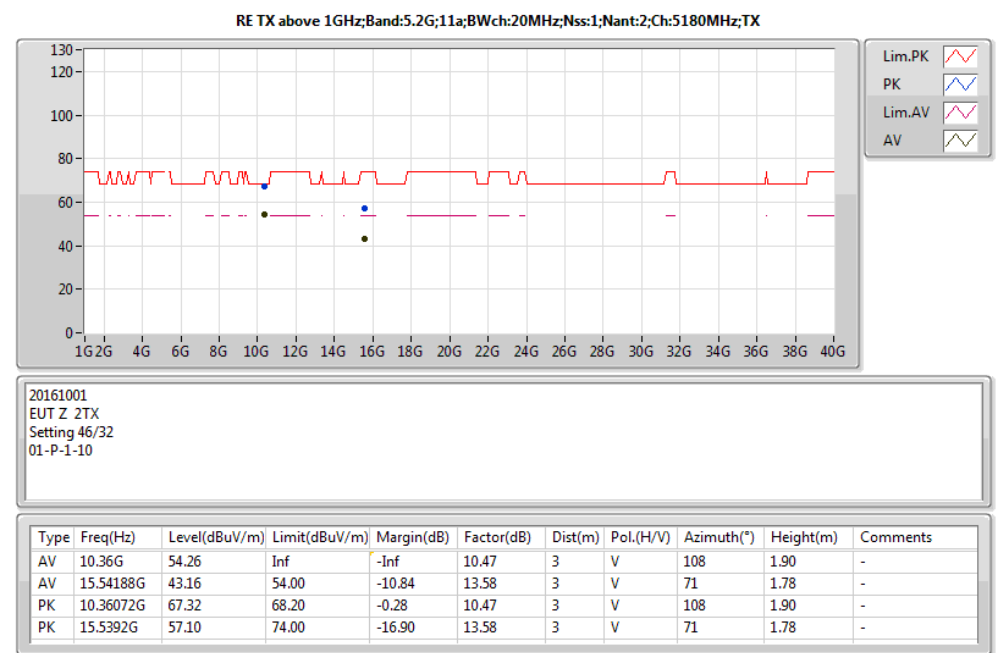
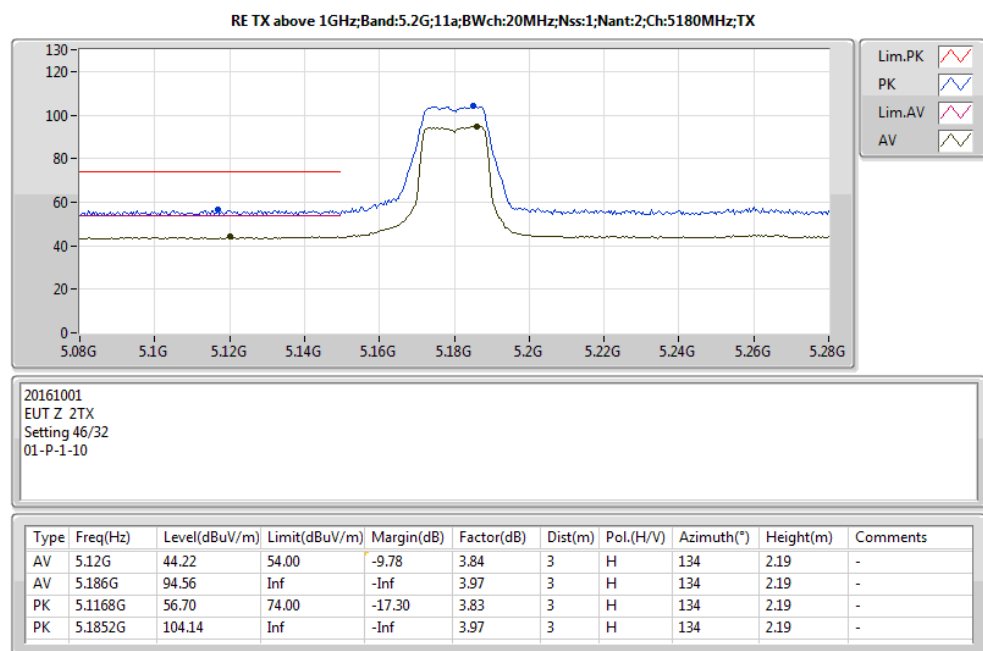
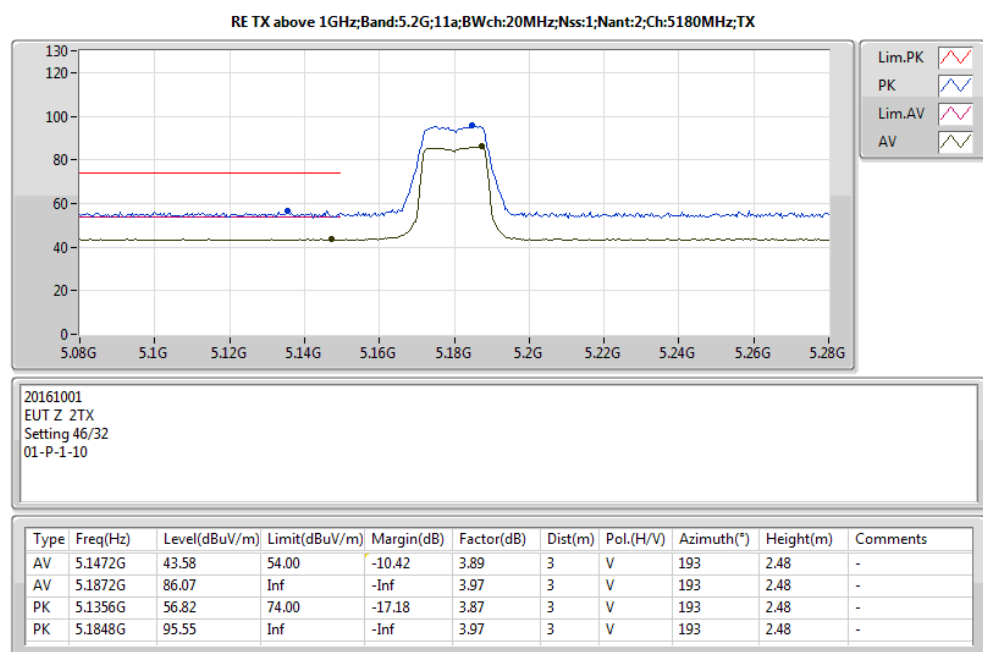
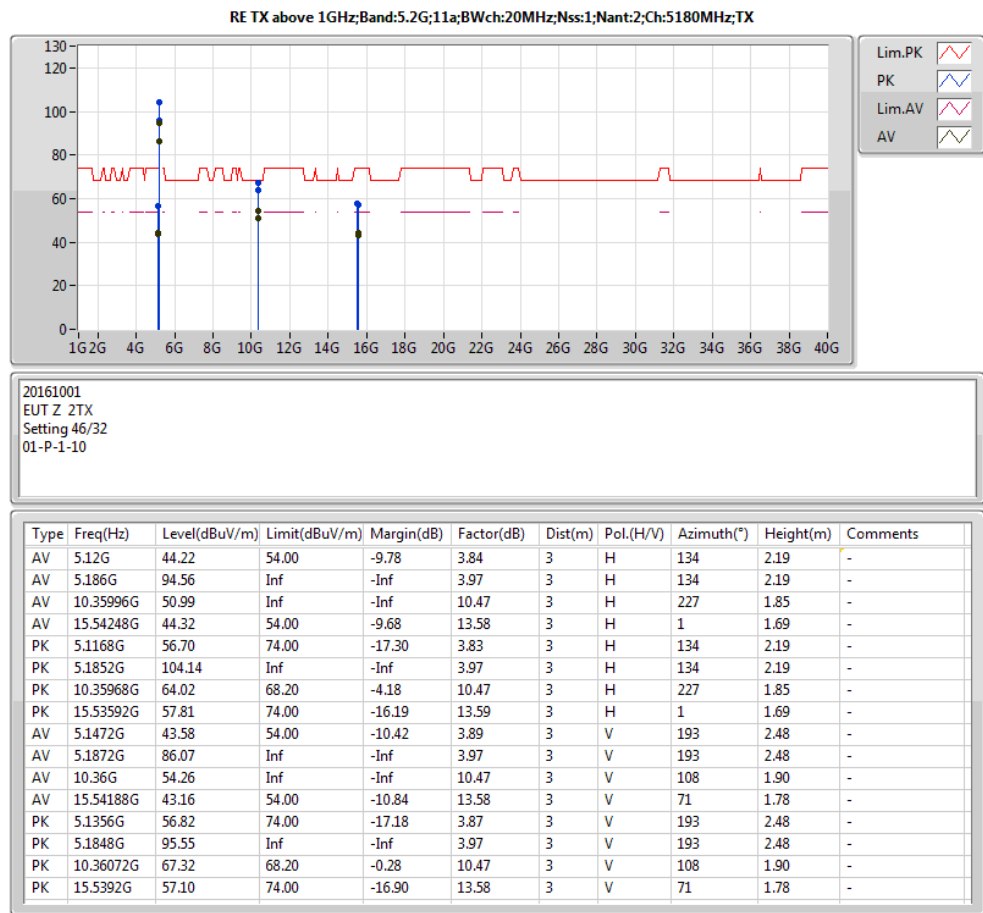
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	PK	15.70062G	59.96	74.00	-14.04	16.95	3	H	346	1.67	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	AV	5.1496G	48.86	54.00	-5.14	7.71	3	V	144	2.71	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	AV	5.2444G	96.95	Inf	-Inf	7.89	3	V	144	2.71	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	AV	10.45904G	55.55	Inf	-Inf	14.78	3	V	135	1.81	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	AV	15.67638G	48.14	54.00	-5.86	17.04	3	V	69	2.44	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	PK	5.1488G	60.32	74.00	-13.68	7.71	3	V	144	2.71	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	PK	5.228G	105.59	Inf	-Inf	7.86	3	V	144	2.71	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	PK	10.45664G	67.94	68.20	-0.26	14.78	3	V	135	1.81	-
5.2G;VHT40;Nss1,(MO);Ntx2;5230;TX	Pass	PK	15.67662G	61.24	74.00	-12.76	17.04	3	V	69	2.44	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	5.147G	53.70	54.00	-0.30	7.26	3	H	79	1.98	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	5.228G	92.45	Inf	-Inf	7.45	3	H	79	1.98	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	5.37G	48.49	54.00	-5.51	7.78	3	H	79	1.98	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	5.132G	67.11	74.00	-6.89	7.23	3	H	79	1.98	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	5.22G	105.87	Inf	-Inf	7.43	3	H	79	1.98	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	5.39G	60.05	74.00	-13.95	7.83	3	H	79	1.98	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	5.146G	49.58	54.00	-4.42	7.26	3	V	145	2.25	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	5.227G	86.30	Inf	-Inf	7.45	3	V	145	2.25	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	5.457G	47.64	54.00	-6.36	7.98	3	V	145	2.25	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	10.4293G	49.48	Inf	-Inf	14.77	3	V	145	1.93	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	AV	10.42954G	50.73	Inf	-Inf	14.77	3	V	31	3.00	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	5.138G	62.87	74.00	-11.13	7.24	3	V	145	2.25	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	5.22G	99.13	Inf	-Inf	7.43	3	V	145	2.25	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	5.455G	60.33	74.00	-13.67	7.97	3	V	145	2.25	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	10.42684G	64.05	68.20	-4.15	14.77	3	V	31	3.00	-
5.2G;VHT80;Nss1,(MO);Ntx2;5210;TX	Pass	PK	10.42702G	62.69	68.20	-5.51	14.77	3	V	145	1.93	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	AV	5.725G	74.42	Inf	-Inf	5.30	3	H	292	2.10	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	AV	5.739G	103.05	Inf	-Inf	5.36	3	H	292	2.10	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	AV	5.905G	47.21	Inf	-Inf	5.92	3	H	292	2.10	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	AV	11.49004G	51.78	54.00	-2.22	11.78	3	H	335	1.61	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	5.612G	58.27	68.20	-9.93	4.83	3	H	292	2.10	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	5.741G	112.79	Inf	-Inf	5.37	3	H	292	2.10	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	5.982G	58.86	68.20	-9.34	6.15	3	H	292	2.10	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	11.49068G	65.60	74.00	-8.40	11.78	3	H	335	1.61	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	AV	5.738G	94.65	Inf	-Inf	5.36	3	V	25	2.24	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	AV	11.49G	50.95	54.00	-3.05	11.78	3	V	292	1.73	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	5.647G	58.13	68.20	-10.07	4.98	3	V	25	2.24	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	5.748G	104.13	Inf	-Inf	5.40	3	V	25	2.24	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	5.984G	58.09	68.20	-10.11	6.15	3	V	25	2.24	-
5.8G;11a;Nss1;Ntx2;5745;TX	Pass	PK	11.4906G	63.53	74.00	-10.47	11.78	3	V	292	1.73	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	AV	5.778G	103.83	Inf	-Inf	5.53	3	H	290	2.16	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	AV	11.57012G	51.44	54.00	-2.56	11.82	3	H	332	1.58	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	5.587G	57.73	68.20	-10.47	4.75	3	H	290	2.16	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	5.79G	113.45	Inf	-Inf	5.58	3	H	290	2.16	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	5.937G	58.52	68.20	-9.68	6.02	3	H	290	2.16	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	11.57088G	64.55	74.00	-9.45	11.82	3	H	332	1.58	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	AV	5.791G	95.62	Inf	-Inf	5.58	3	V	185	2.94	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	AV	11.57012G	53.77	54.00	-0.23	11.82	3	V	305	1.71	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	5.553G	58.03	68.20	-10.17	4.66	3	V	185	2.94	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	5.791G	105.44	Inf	-Inf	5.58	3	V	185	2.94	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	5.931G	58.39	68.20	-9.81	6.00	3	V	185	2.94	-
5.8G;11a;Nss1;Ntx2;5785;TX	Pass	PK	11.57068G	66.84	74.00	-7.16	11.82	3	V	305	1.71	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	AV	5.819G	103.36	Inf	-Inf	5.68	3	H	94	2.35	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	AV	11.65004G	51.56	54.00	-2.44	11.86	3	H	330	1.56	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	5.615G	57.95	68.20	-10.25	4.84	3	H	94	2.35	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	5.828G	112.94	Inf	-Inf	5.70	3	H	94	2.35	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	5.972G	58.48	68.20	-9.72	6.12	3	H	94	2.35	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	11.65084G	65.19	74.00	-8.81	11.86	3	H	330	1.56	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	AV	5.818G	94.84	Inf	-Inf	5.67	3	V	191	2.89	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	AV	11.65G	53.79	54.00	-0.11	11.86	3	V	305	1.69	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	5.619G	57.14	68.20	-11.06	4.86	3	V	191	2.89	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	5.819G	105.48	Inf	-Inf	5.68	3	V	191	2.89	-
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	5.942G	59.35	68.20	-8.85	6.03	3	V	191	2.89	-

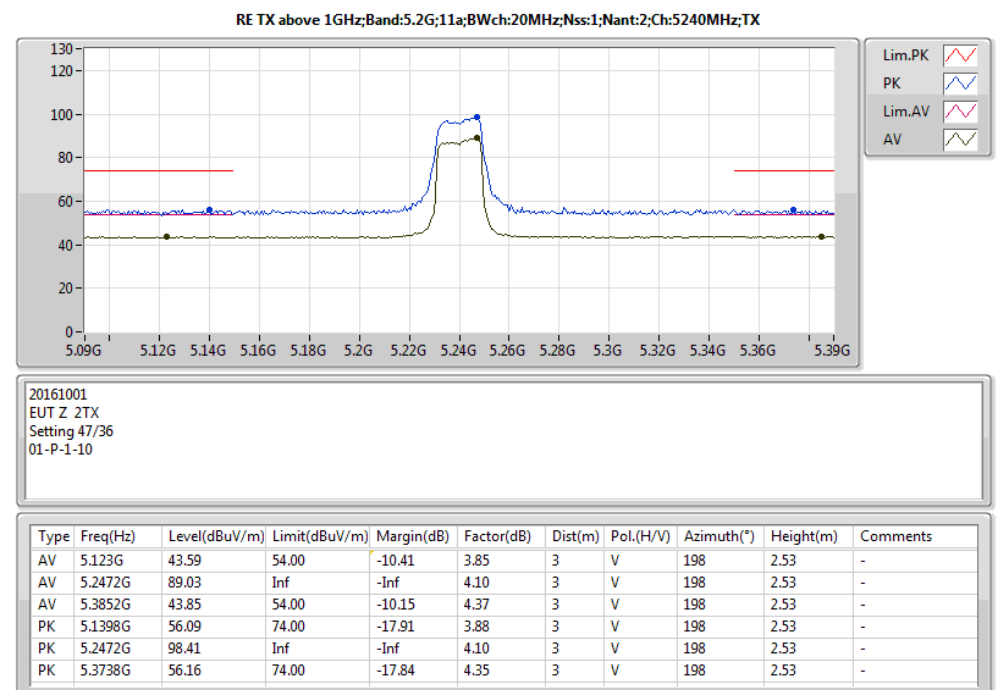
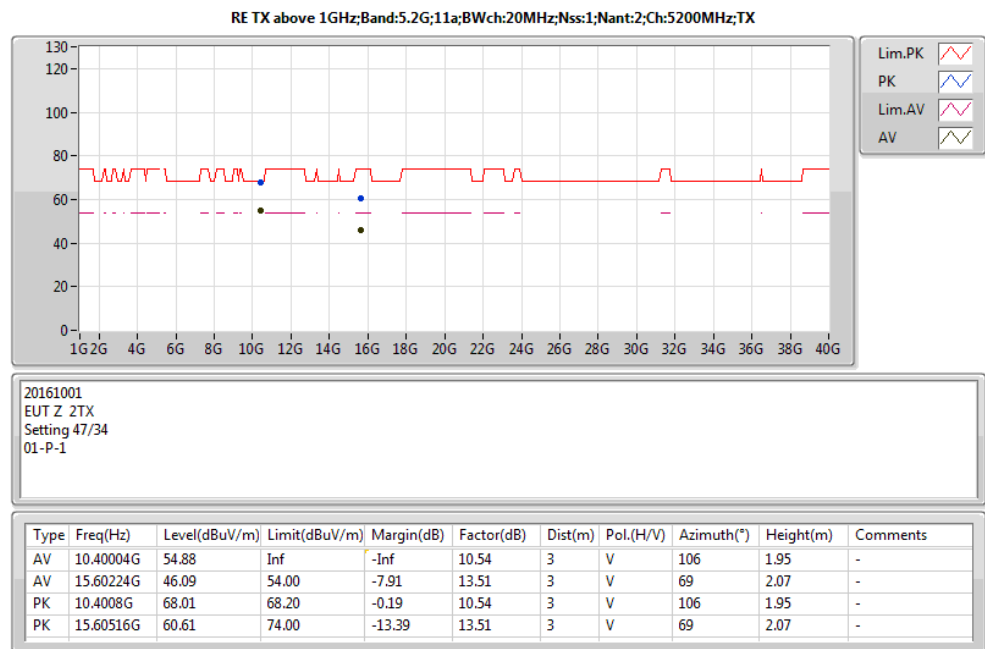
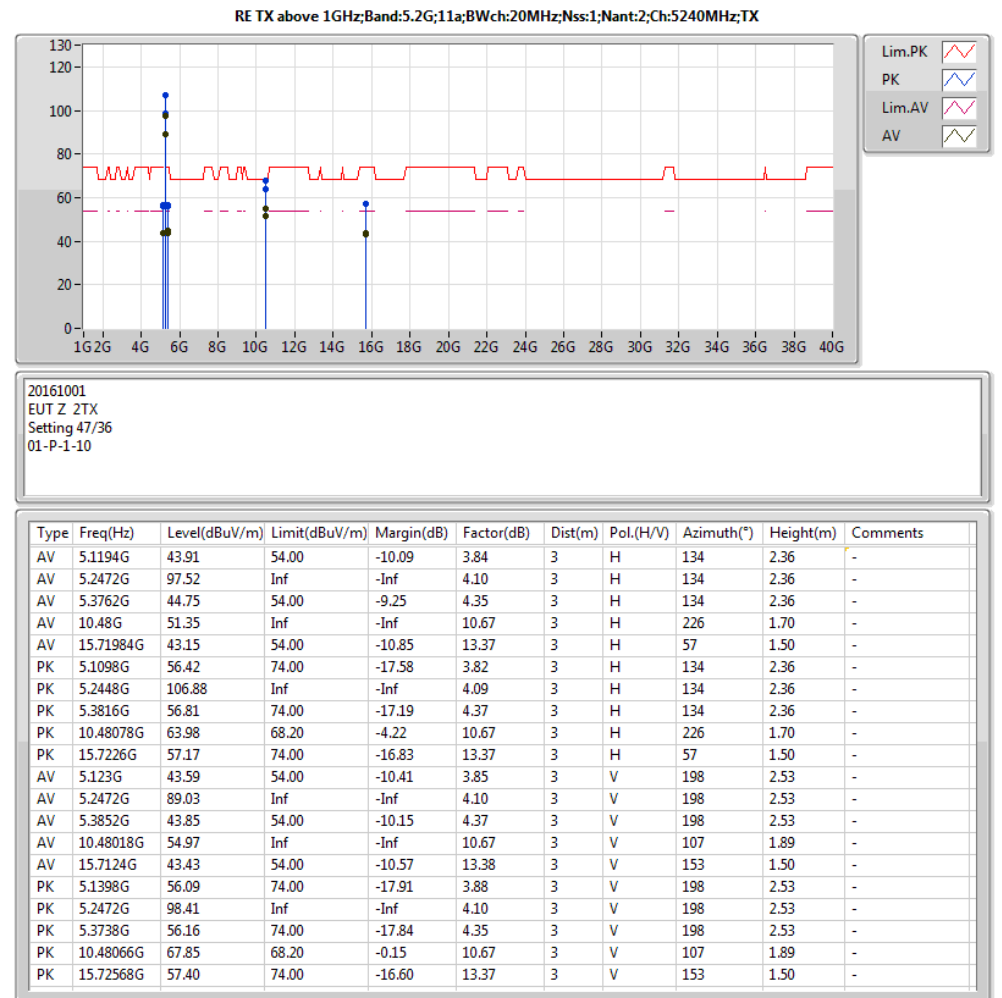
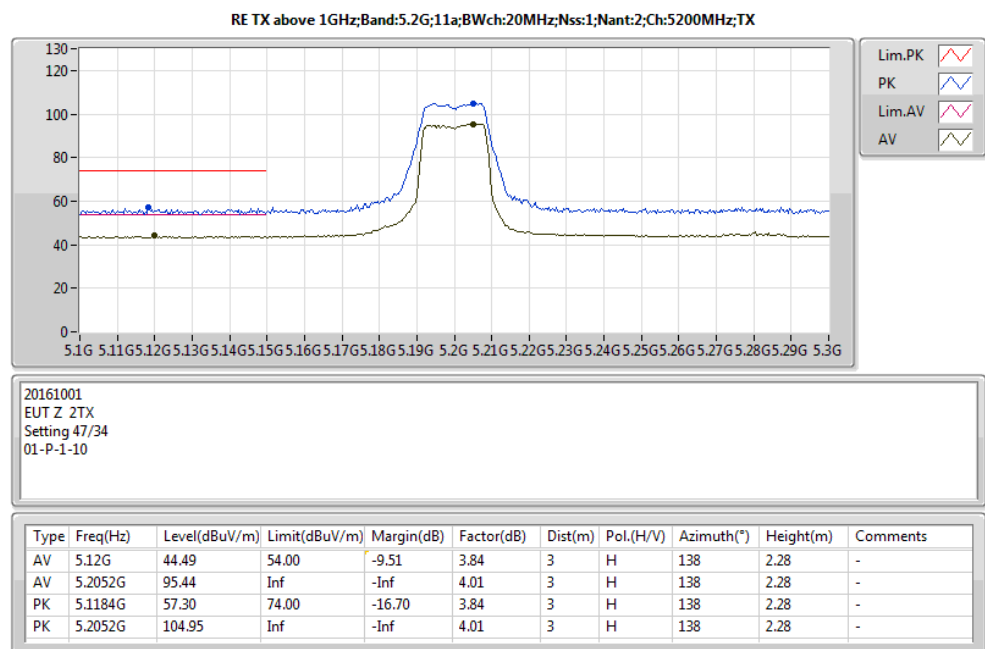
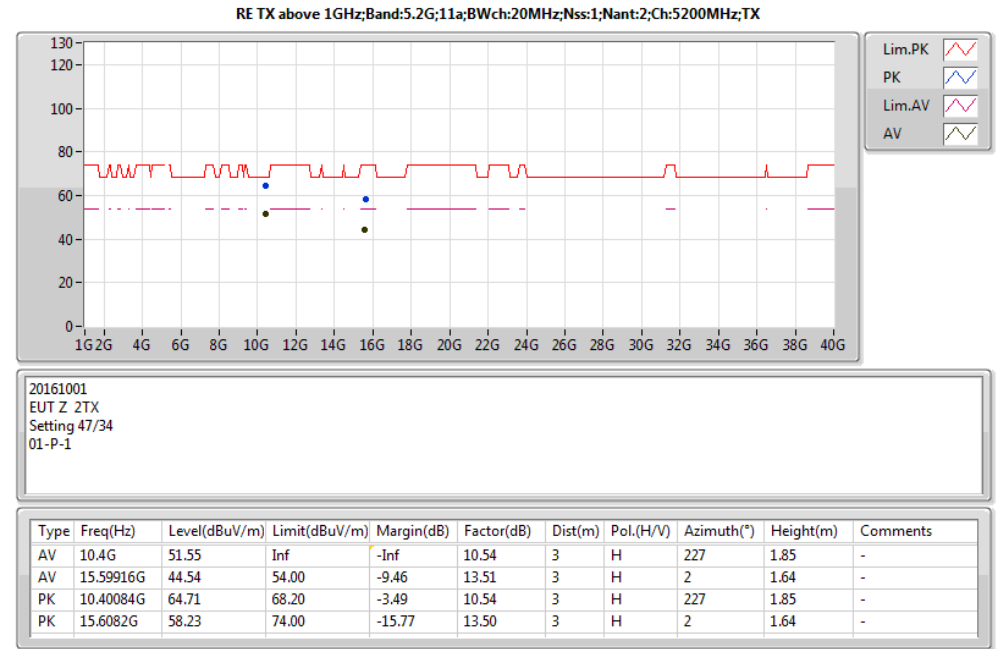
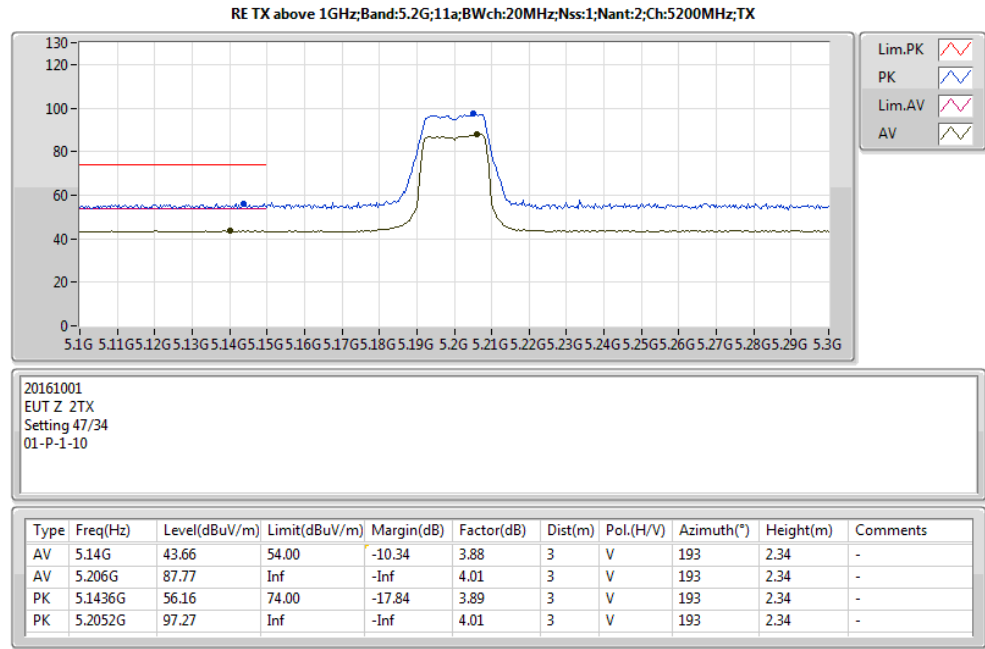


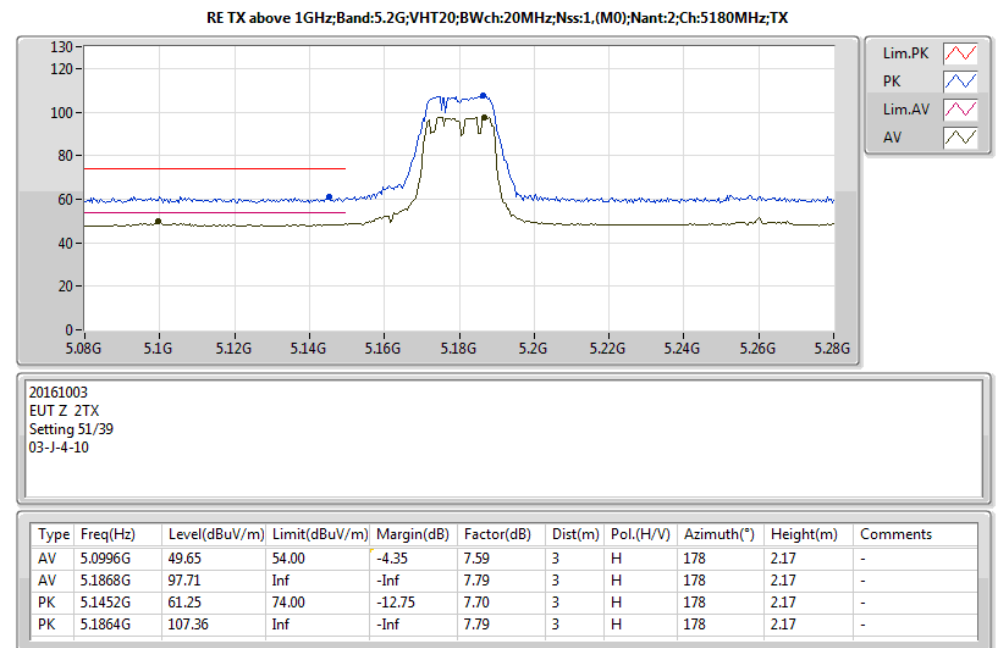
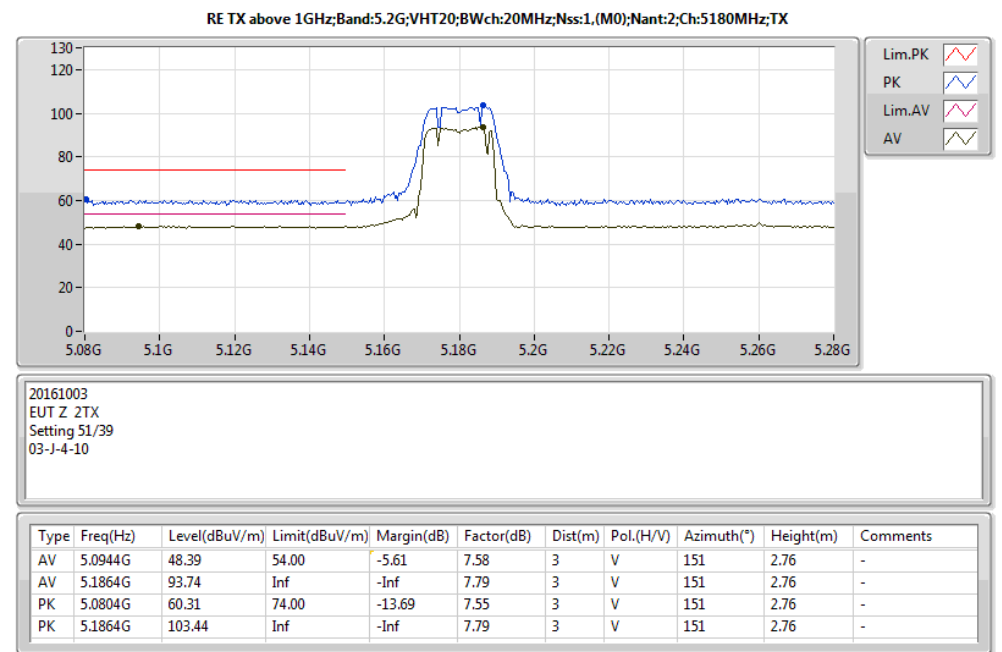
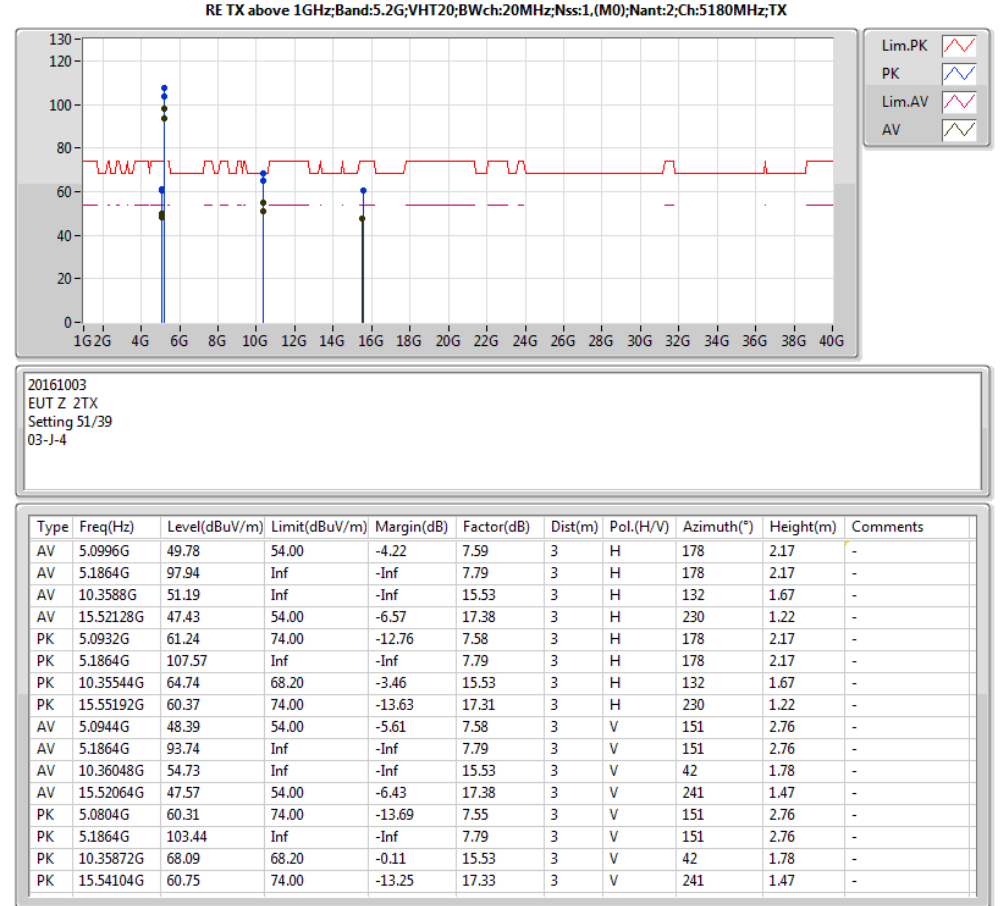
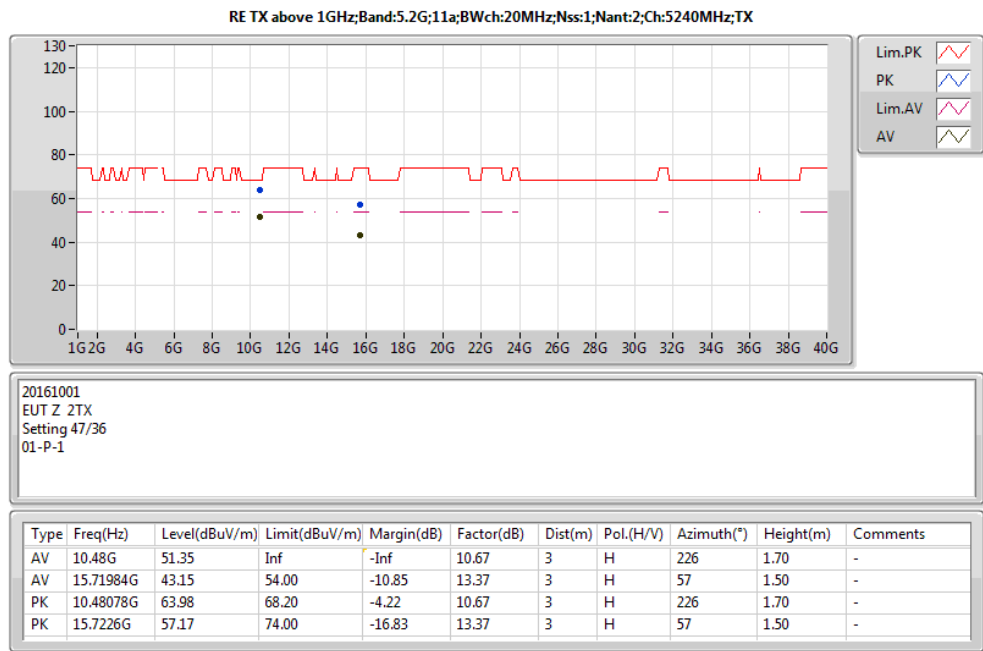
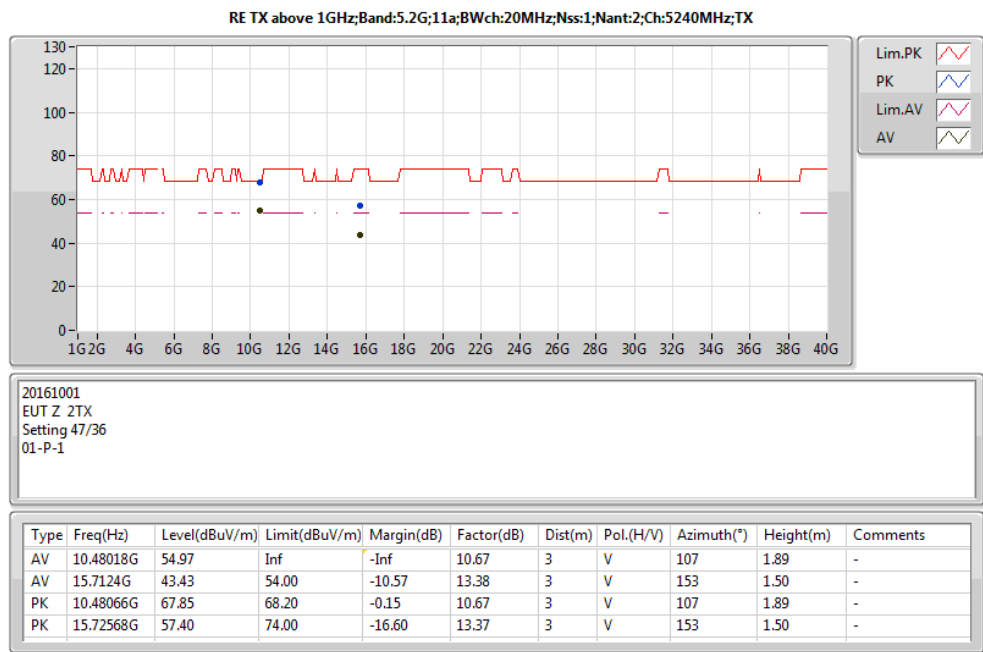
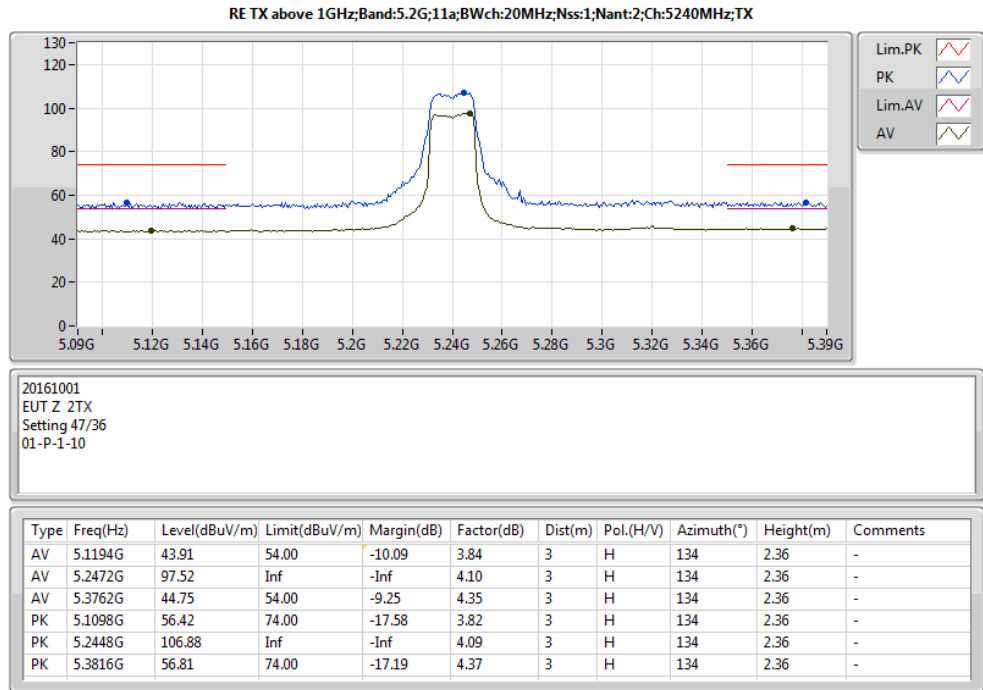
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.8G;11a;Nss1;Ntx2;5825;TX	Pass	PK	11.65188G	67.16	74.00	-6.84	11.87	3	V	305	1.69	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	AV	5.739G	103.29	Inf	-Inf	8.48	3	H	211	2.56	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	AV	11.48772G	47.18	54.00	-6.82	16.95	3	H	310	1.74	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	5.613G	61.93	68.20	-6.27	8.45	3	H	211	2.56	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	5.741G	113.07	Inf	-Inf	8.48	3	H	211	2.56	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	5.956G	60.56	68.20	-7.64	8.72	3	H	211	2.56	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	11.4916G	61.00	74.00	-13.00	16.95	3	H	310	1.74	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	AV	5.739G	98.34	Inf	-Inf	8.48	3	V	292	2.69	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	AV	11.49064G	49.12	54.00	-4.88	16.95	3	V	26	1.90	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	5.597G	61.41	68.20	-6.79	8.44	3	V	292	2.69	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	5.751G	108.05	Inf	-Inf	8.48	3	V	292	2.69	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	5.93G	61.26	68.20	-6.94	8.68	3	V	292	2.69	-
5.8G;VHT20;Nss1,(MO);Ntx2;5745;TX	Pass	PK	11.48484G	62.42	74.00	-11.58	16.96	3	V	26	1.90	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	AV	5.78G	105.34	Inf	-Inf	8.49	3	H	199	2.20	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	AV	11.56864G	51.55	54.00	-2.45	16.33	3	H	82	1.82	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	5.625G	62.55	68.20	-5.65	8.45	3	H	199	2.20	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	5.778G	114.96	Inf	-Inf	8.49	3	H	199	2.20	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	5.933G	61.92	68.20	-6.28	8.69	3	H	199	2.20	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	11.5684G	65.41	74.00	-8.59	16.33	3	H	82	1.82	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	AV	5.779G	94.94	Inf	-Inf	8.49	3	V	108	2.25	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	AV	11.5688G	53.22	54.00	-0.78	16.33	3	V	315	2.19	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	5.573G	61.75	68.20	-6.45	8.41	3	V	108	2.25	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	5.779G	104.41	Inf	-Inf	8.49	3	V	108	2.25	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	5.968G	61.74	68.20	-6.46	8.74	3	V	108	2.25	-
5.8G;VHT20;Nss1,(MO);Ntx2;5785;TX	Pass	PK	11.56776G	66.74	74.00	-7.26	16.33	3	V	315	2.19	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	AV	5.831G	105.71	Inf	-Inf	8.54	3	H	342	2.15	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	AV	11.6506G	50.68	54.00	-3.32	16.37	3	H	179	2.19	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	5.577G	62.27	68.20	-5.93	8.42	3	H	342	2.15	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	5.83G	114.73	Inf	-Inf	8.54	3	H	342	2.15	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	5.986G	62.63	68.20	-5.57	8.76	3	H	342	2.15	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	11.64766G	64.05	74.00	-9.95	16.36	3	H	179	2.19	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	AV	5.831G	95.93	Inf	-Inf	8.54	3	V	118	2.22	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	AV	11.65072G	45.87	54.00	-8.13	16.37	3	V	360	2.50	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	5.599G	62.44	68.20	-5.76	8.44	3	V	118	2.22	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	5.831G	105.13	Inf	-Inf	8.54	3	V	118	2.22	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	5.936G	61.35	68.20	-6.85	8.69	3	V	118	2.22	-
5.8G;VHT20;Nss1,(MO);Ntx2;5825;TX	Pass	PK	11.65096G	59.33	74.00	-14.67	16.37	3	V	360	2.50	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	AV	5.752G	101.89	Inf	-Inf	8.48	3	H	181	2.09	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	5.537G	62.36	68.20	-5.84	8.36	3	H	181	2.09	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	5.753G	111.72	Inf	-Inf	8.48	3	H	181	2.09	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	5.955G	61.47	68.20	-6.73	8.72	3	H	181	2.09	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	AV	5.753G	96.42	Inf	-Inf	8.48	3	V	224	2.90	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	5.543G	61.51	68.20	-6.69	8.37	3	V	224	2.90	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	5.753G	106.08	Inf	-Inf	8.48	3	V	224	2.90	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	5.986G	61.95	68.20	-6.25	8.76	3	V	224	2.90	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	AV	11.50736G	48.87	54.00	-5.13	15.66	3	H	317	2.30	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	AV	11.50844G	46.81	54.00	-7.19	15.66	3	H	130	1.48	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	11.50052G	60.36	74.00	-13.64	15.65	3	H	130	1.48	-
5.8G;VHT40;Nss1,(MO);Ntx2;5755;TX	Pass	PK	11.50646G	62.56	74.00	-11.44	15.66	3	H	317	2.30	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	AV	5.797G	100.02	Inf	-Inf	8.42	3	H	251	1.96	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	AV	11.589G	48.79	54.00	-5.21	15.75	3	H	56	2.22	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	5.566G	60.63	68.20	-7.57	8.12	3	H	251	1.96	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	5.793G	110.74	Inf	-Inf	8.41	3	H	251	1.96	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	5.98G	60.49	68.20	-7.71	8.53	3	H	251	1.96	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	11.594G	61.62	74.00	-12.38	15.76	3	H	56	2.22	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	AV	5.797G	100.19	Inf	-Inf	8.42	3	V	251	2.13	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	AV	11.589G	49.88	54.00	-4.12	15.75	3	V	70	1.51	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	5.568G	60.86	68.20	-7.34	8.12	3	V	266	2.13	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	5.781G	111.57	Inf	-Inf	8.40	3	V	266	2.13	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	5.982G	60.94	68.20	-7.26	8.53	3	V	266	2.13	-
5.8G;VHT40;Nss1,(MO);Ntx2;5795;TX	Pass	PK	11.59328G	63.11	74.00	-10.89	15.76	3	V	70	1.51	-
5.8G;VHT80;Nss1,(MO);Ntx2;5775;TX	Pass	AV	5.757G	96.64	Inf	-Inf	8.36	3	V	264	2.32	-

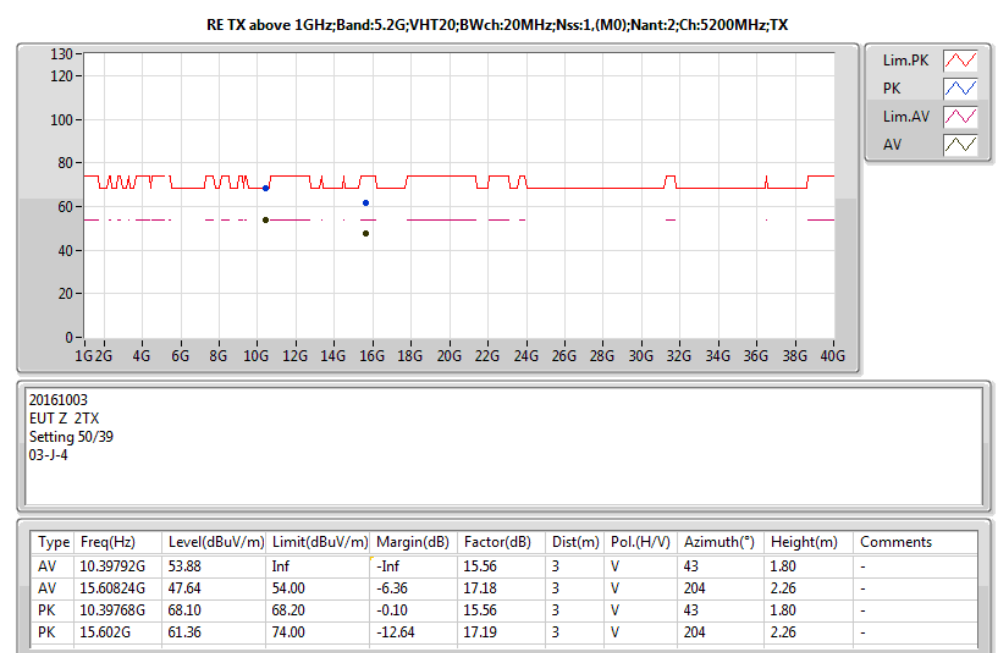
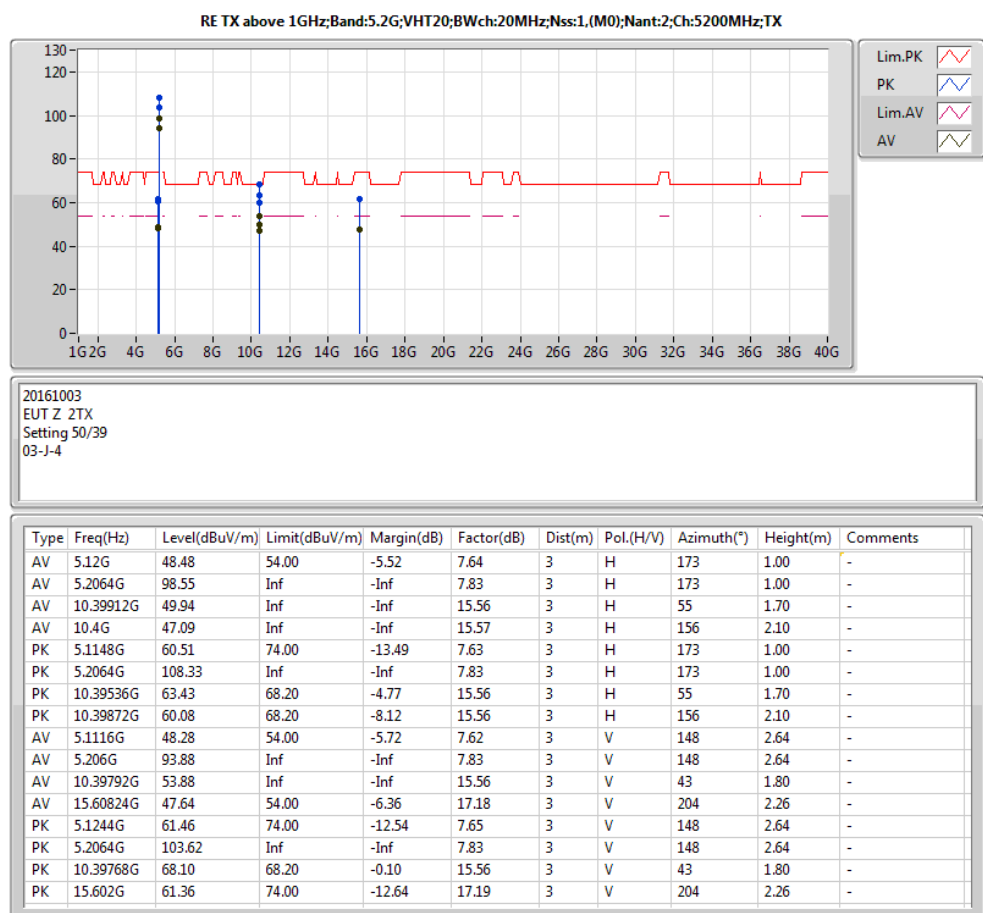
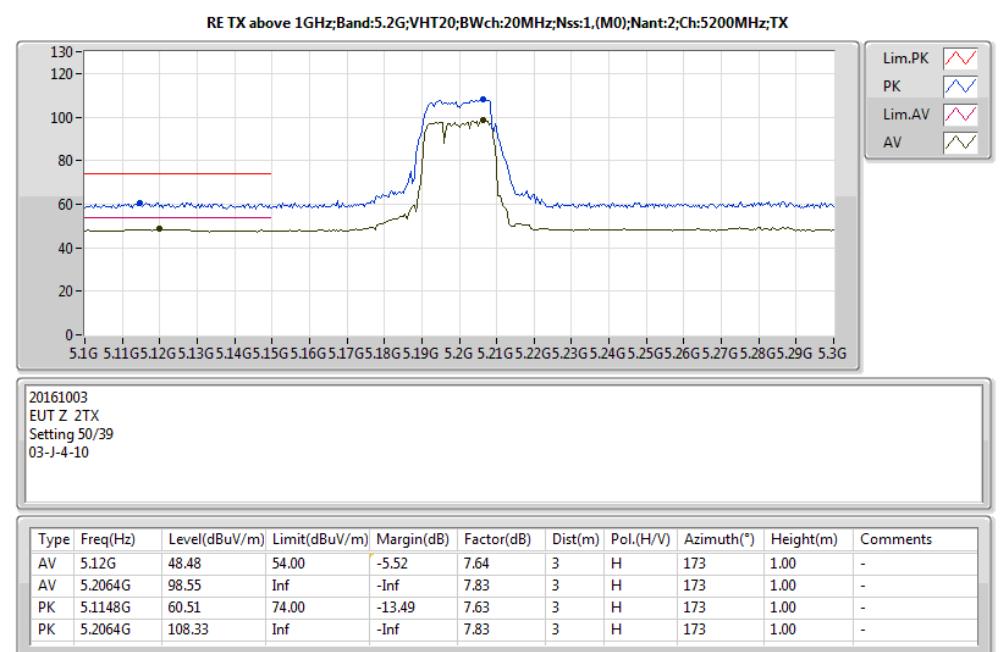
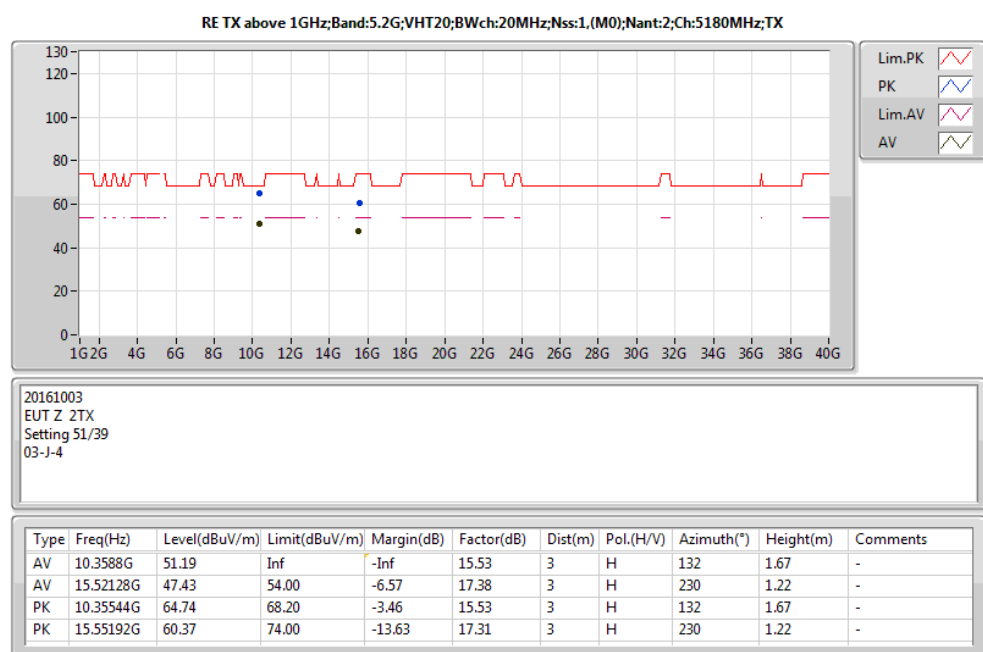
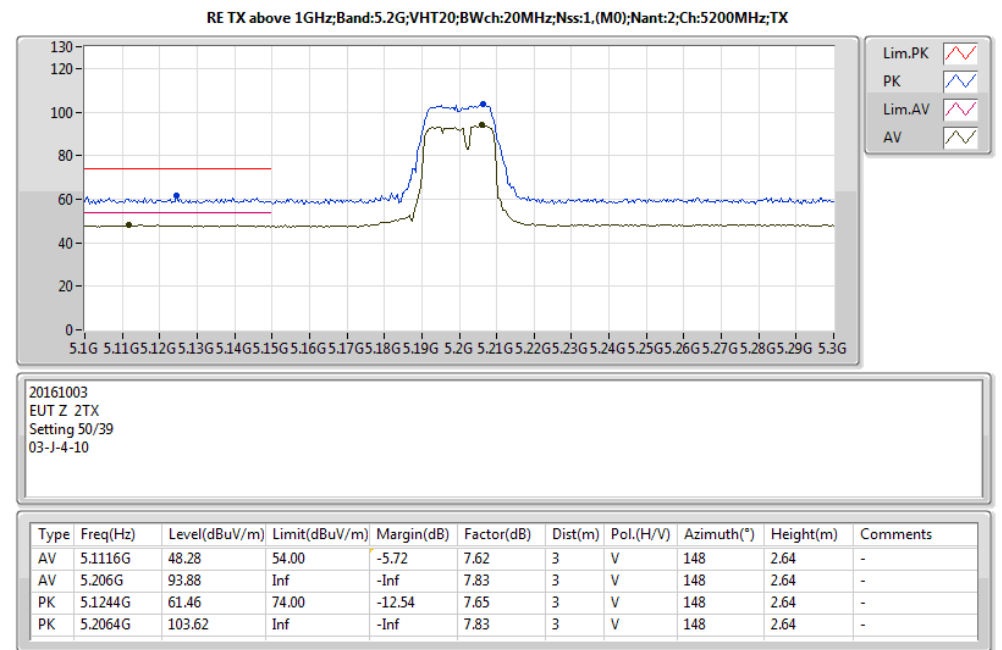
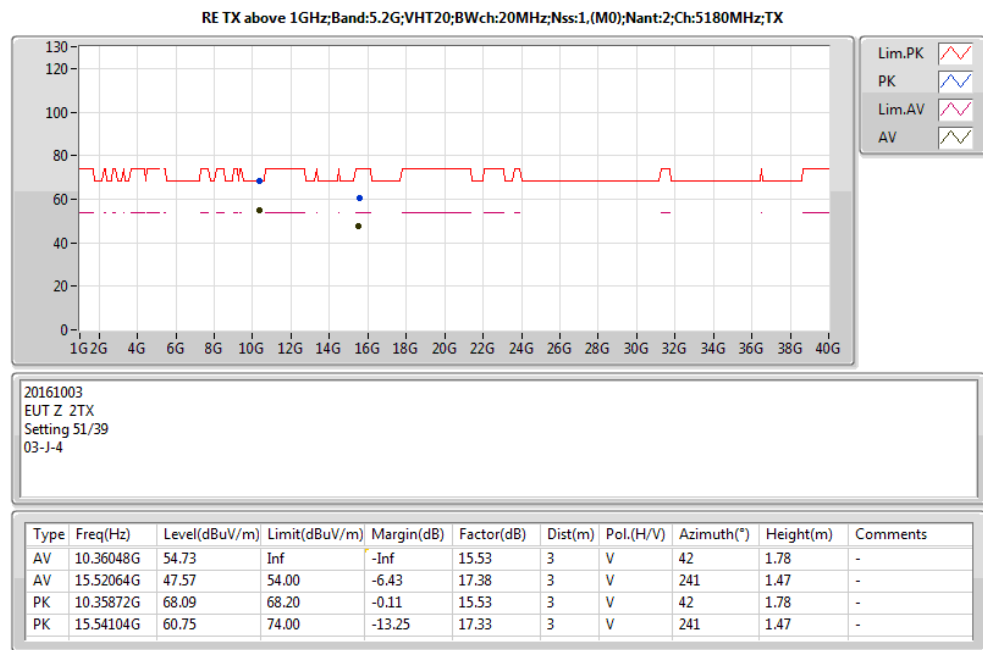


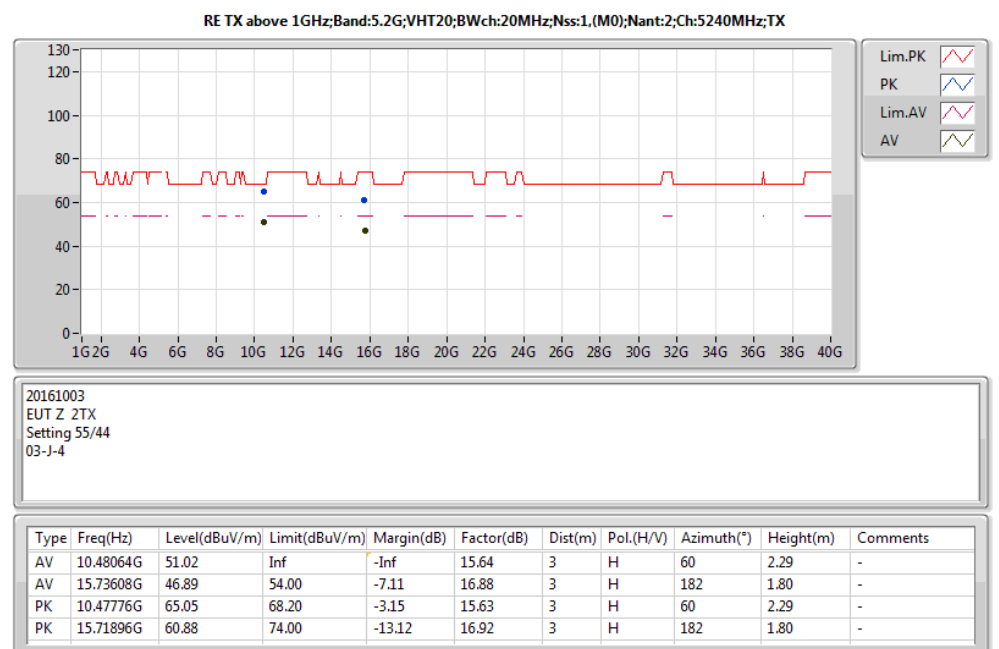
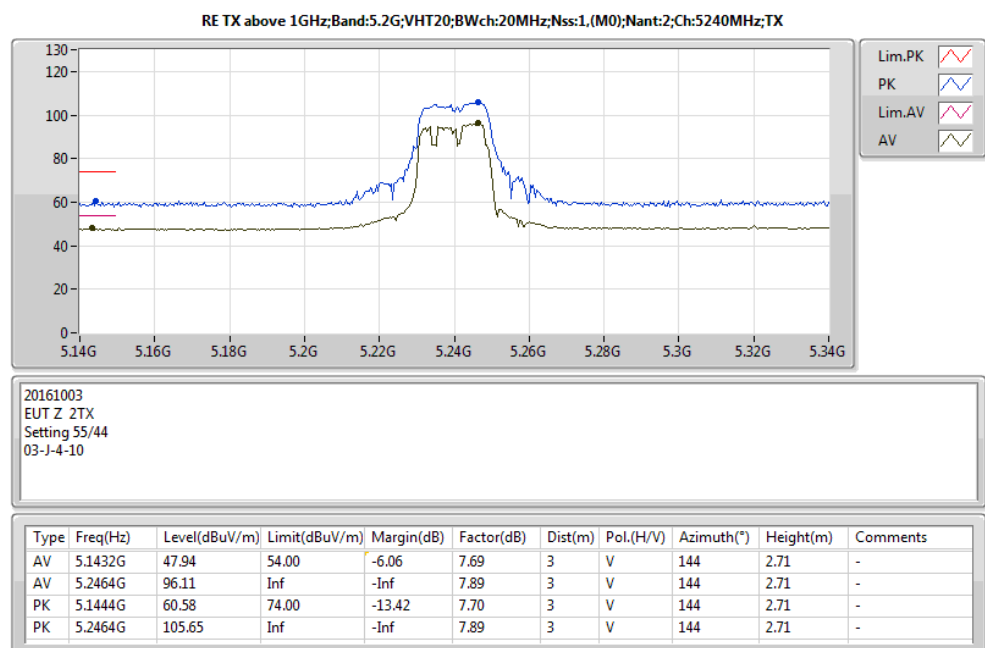
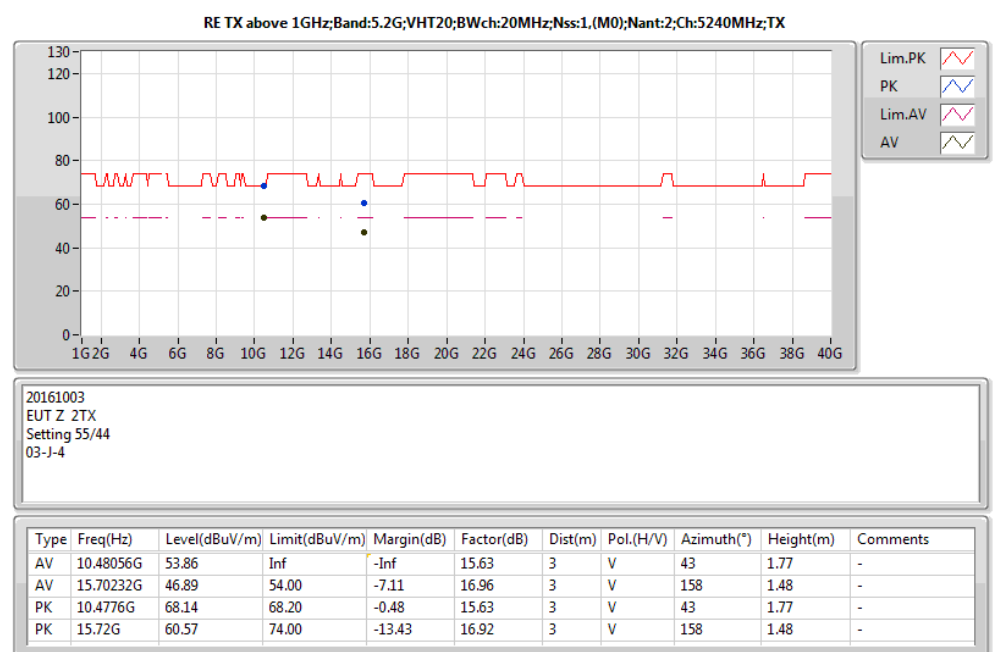
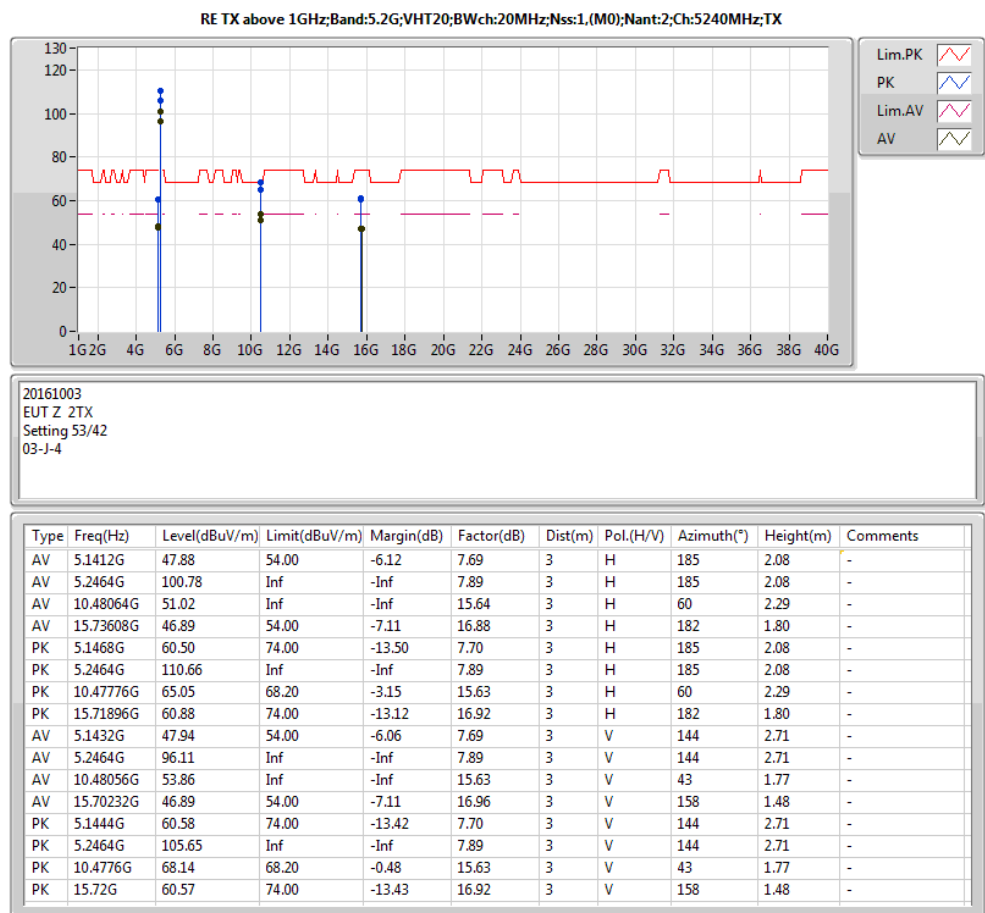
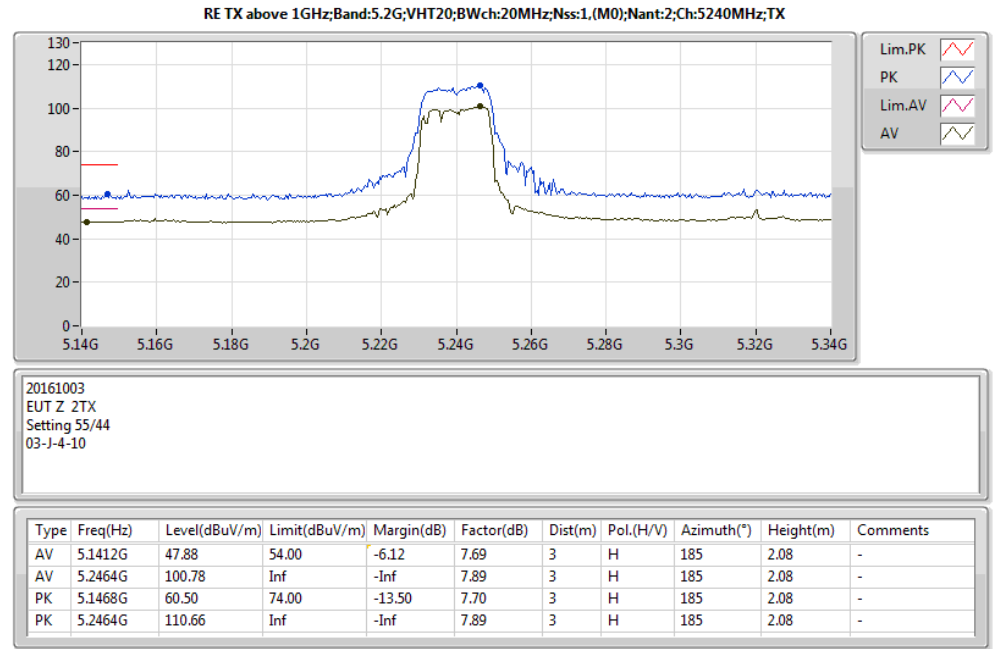
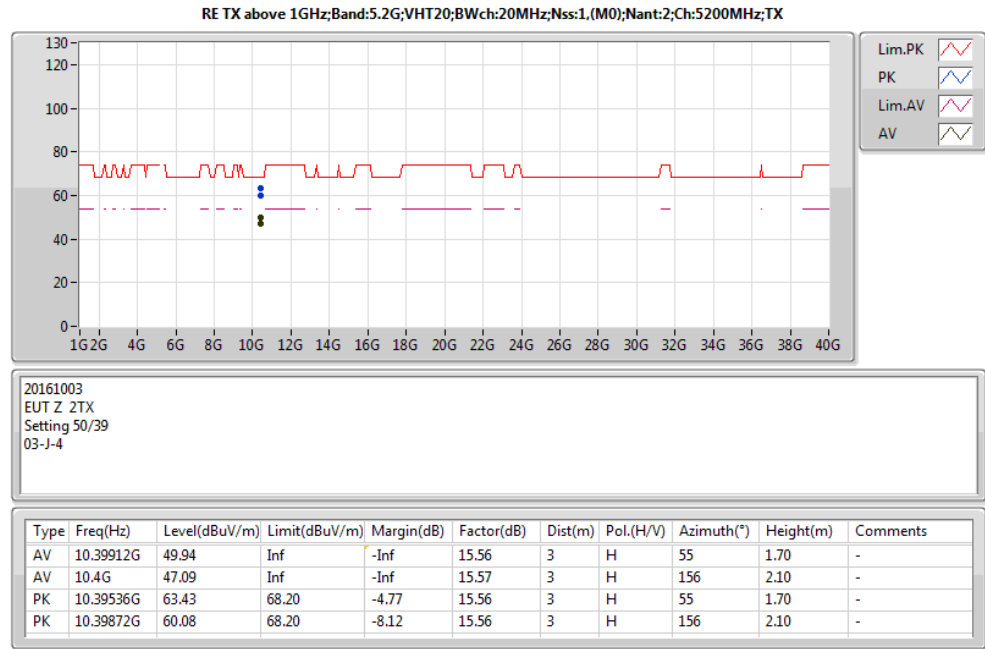
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	AV	5.767G	89.92	Inf	-Inf	8.38	3	V	327	2.17	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	AV	11.5527G	47.75	54.00	-6.25	15.71	3	V	25	1.53	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	AV	11.5596G	44.77	54.00	-9.23	15.72	3	V	157	1.30	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	5.583G	60.61	68.20	-7.59	8.14	3	V	327	2.17	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	5.647G	64.10	68.20	-4.10	8.22	3	V	264	2.32	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	5.759G	108.85	Inf	-Inf	8.37	3	V	264	2.32	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	5.777G	103.81	Inf	-Inf	8.39	3	V	327	2.17	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	5.935G	61.72	68.20	-6.48	8.50	3	V	264	2.32	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	5.98G	59.96	68.20	-8.24	8.53	3	V	327	2.17	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	11.54568G	57.61	74.00	-16.39	15.70	3	V	157	1.30	-
5.8G;VHT80;Nss1,(M0);Ntx2;5775;TX	Pass	PK	11.55096G	61.21	74.00	-12.79	15.71	3	V	25	1.53	-

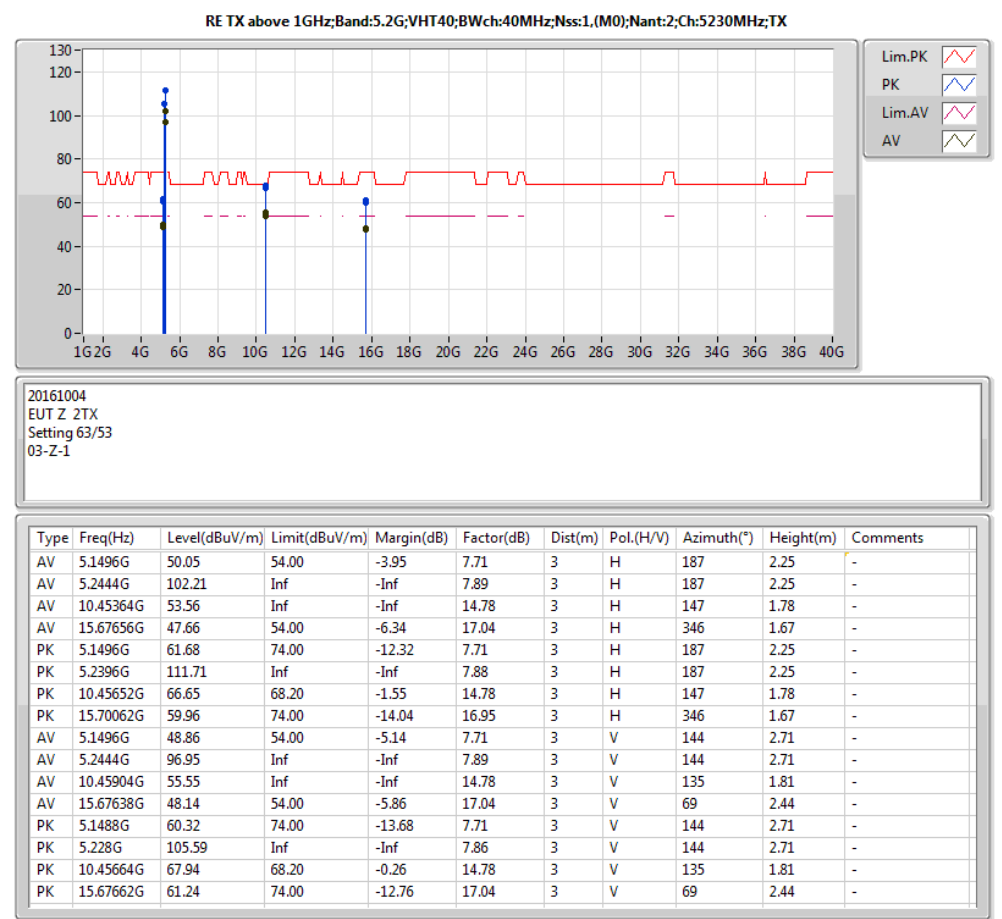
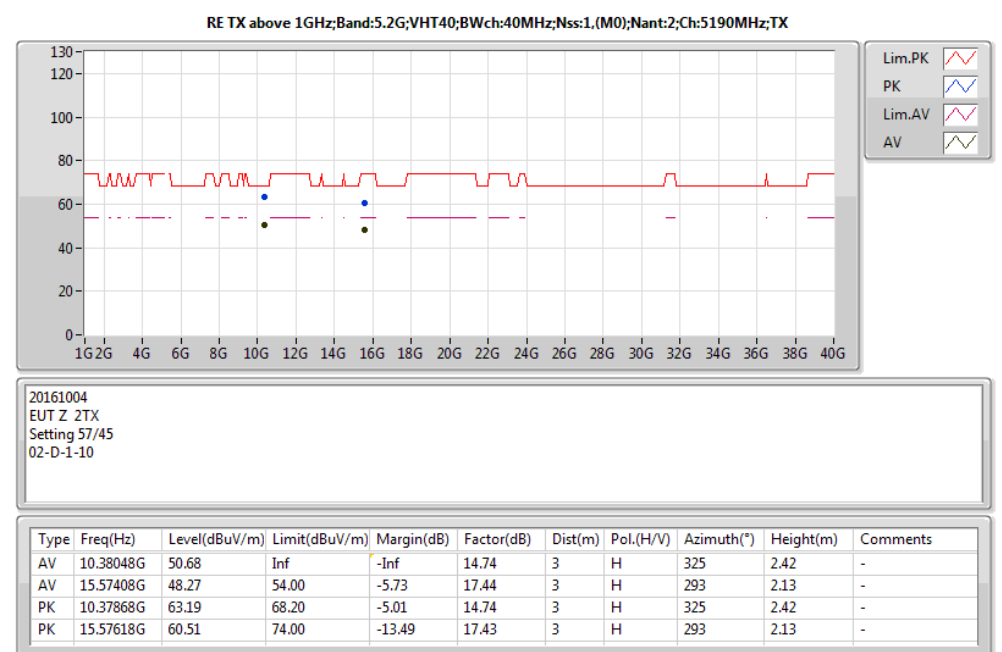
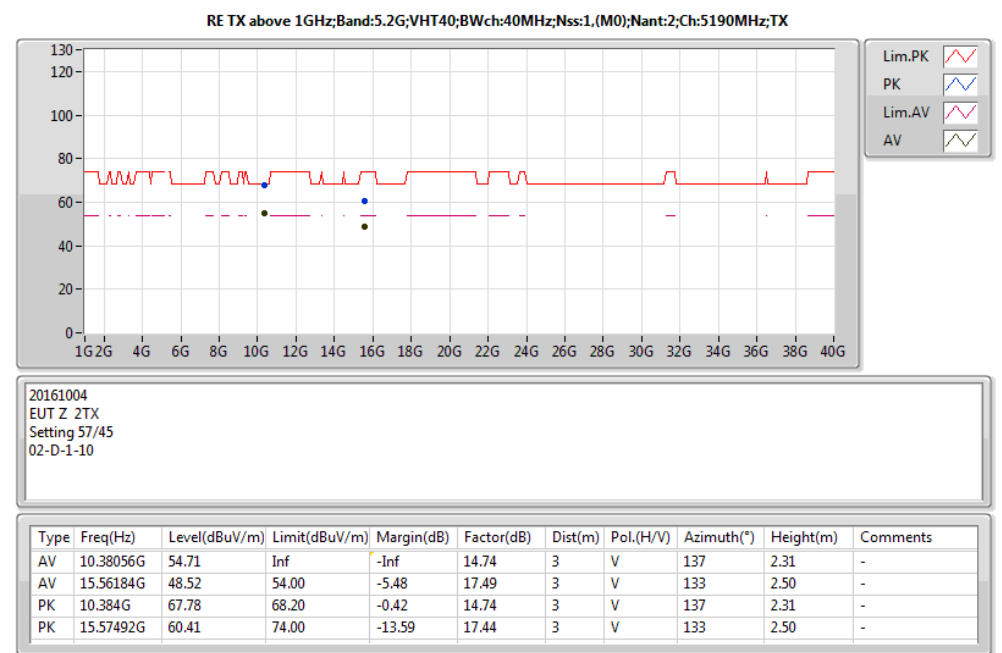
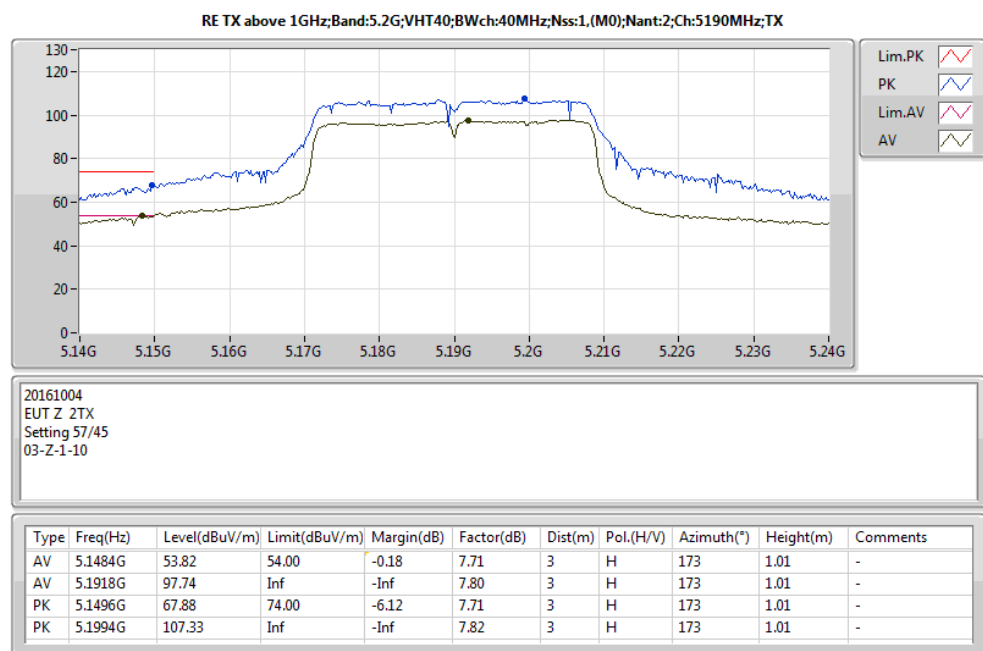
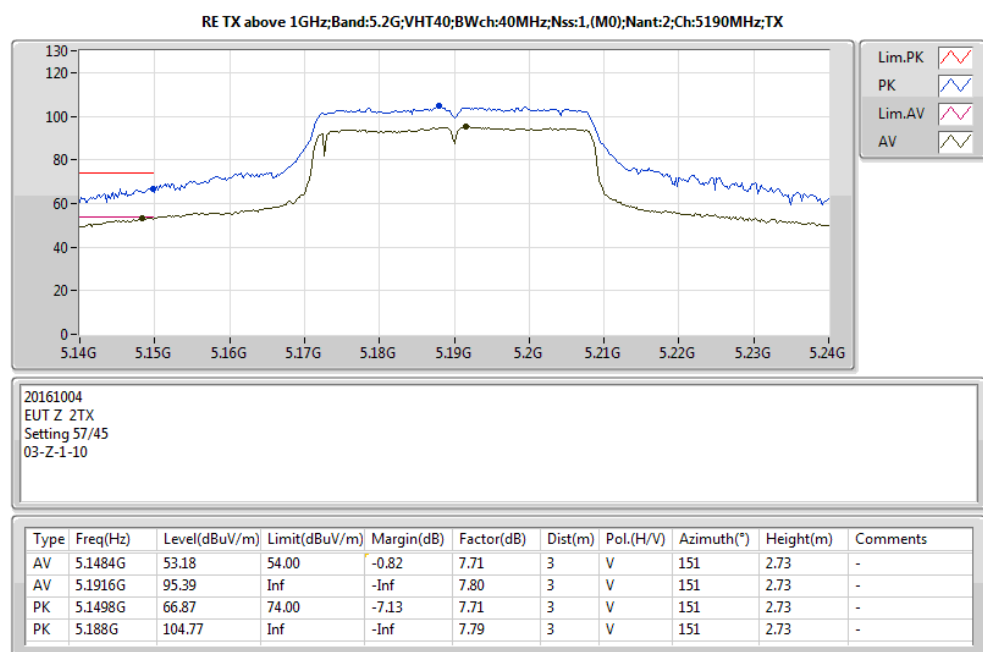
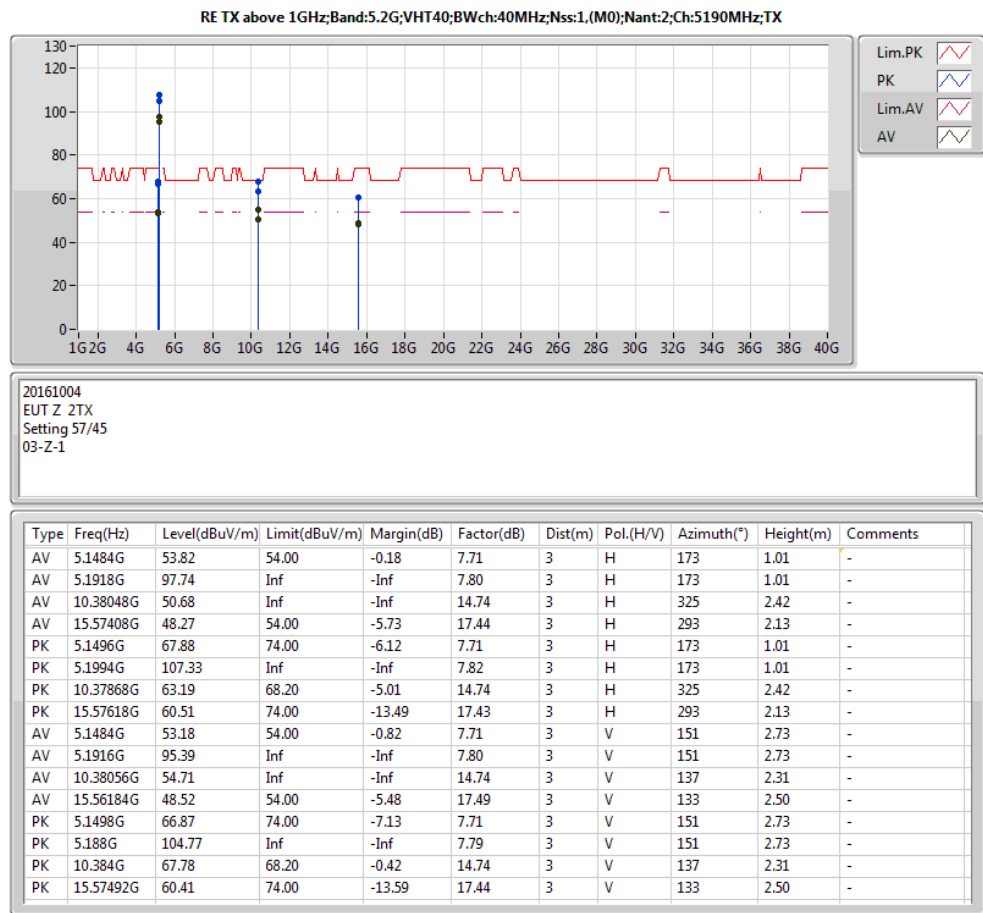


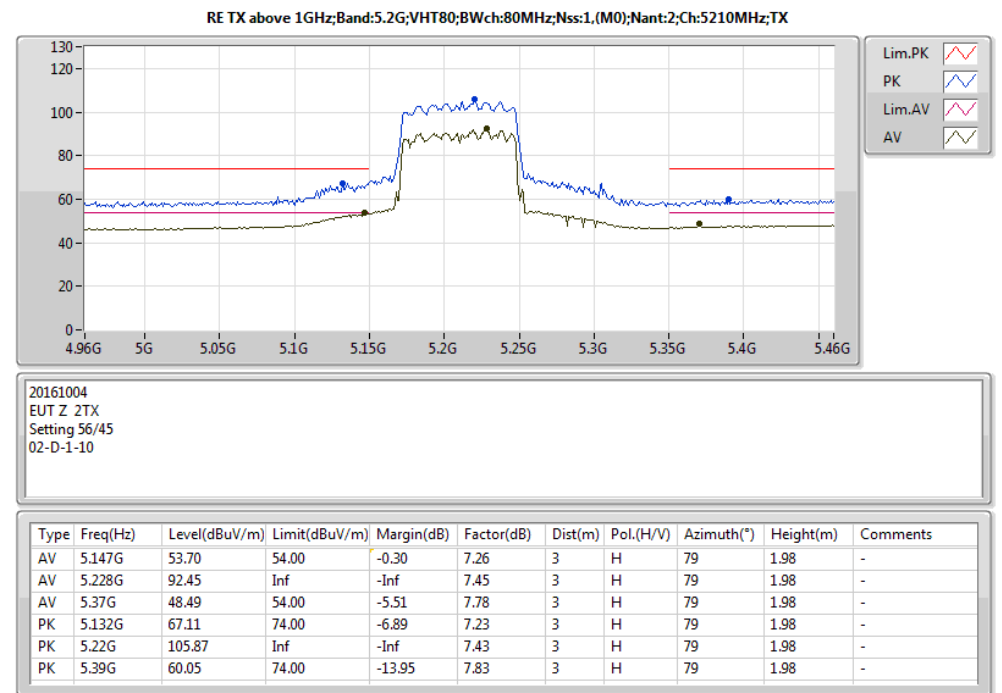
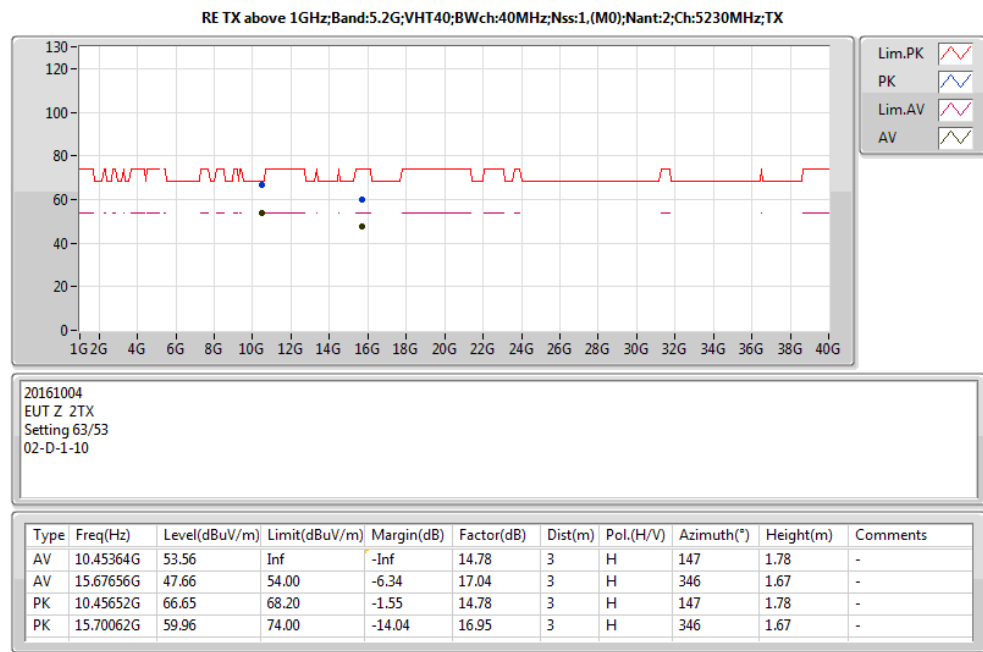
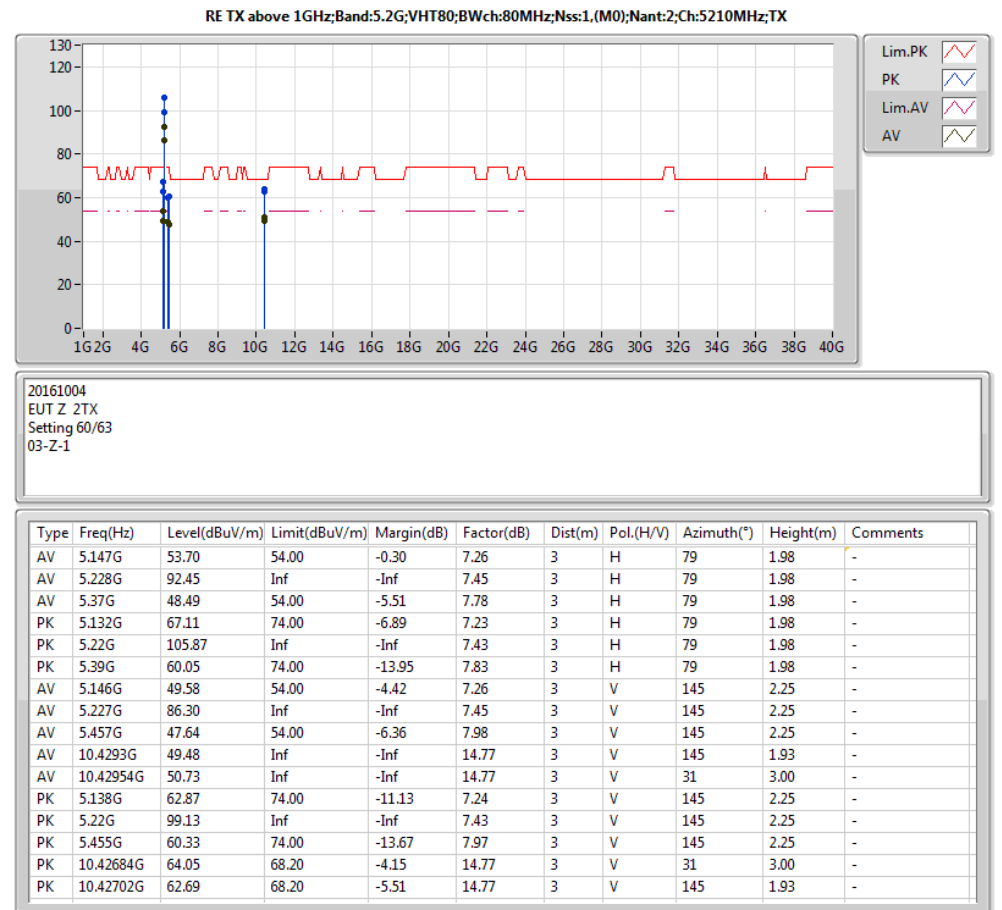
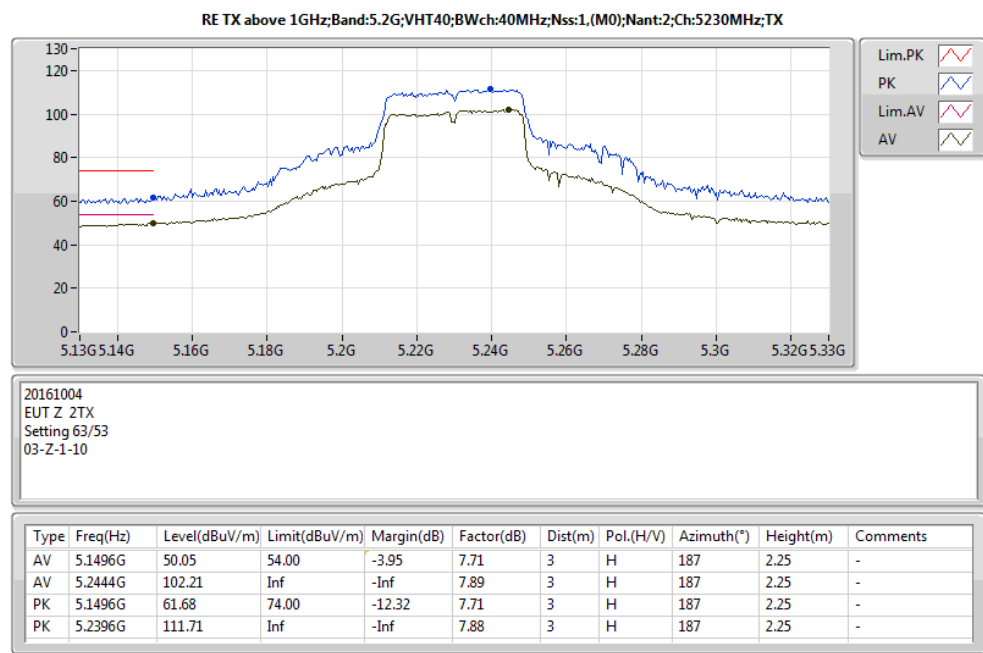
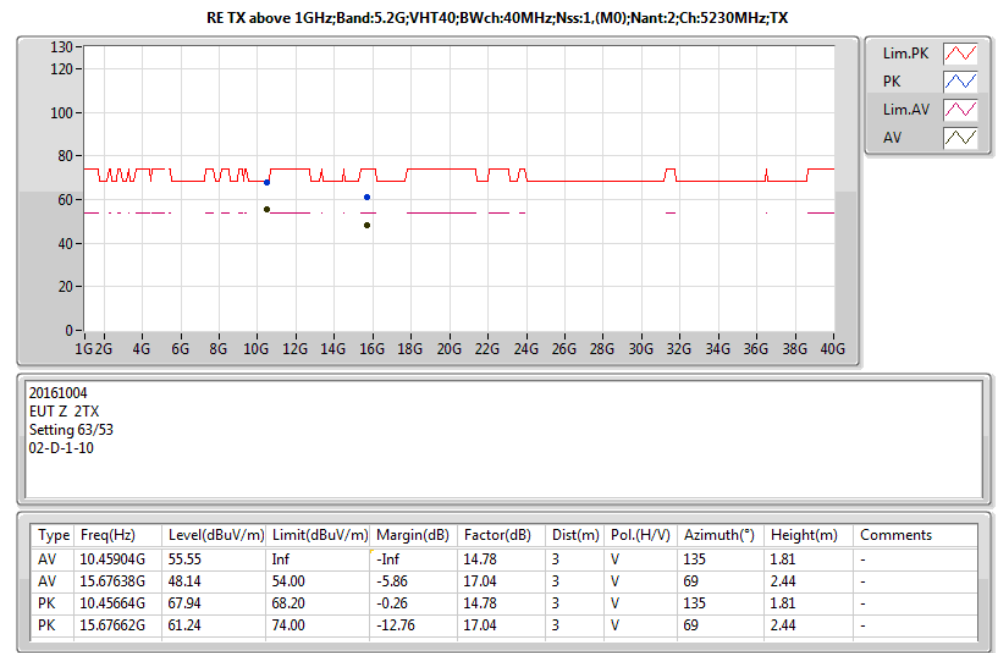
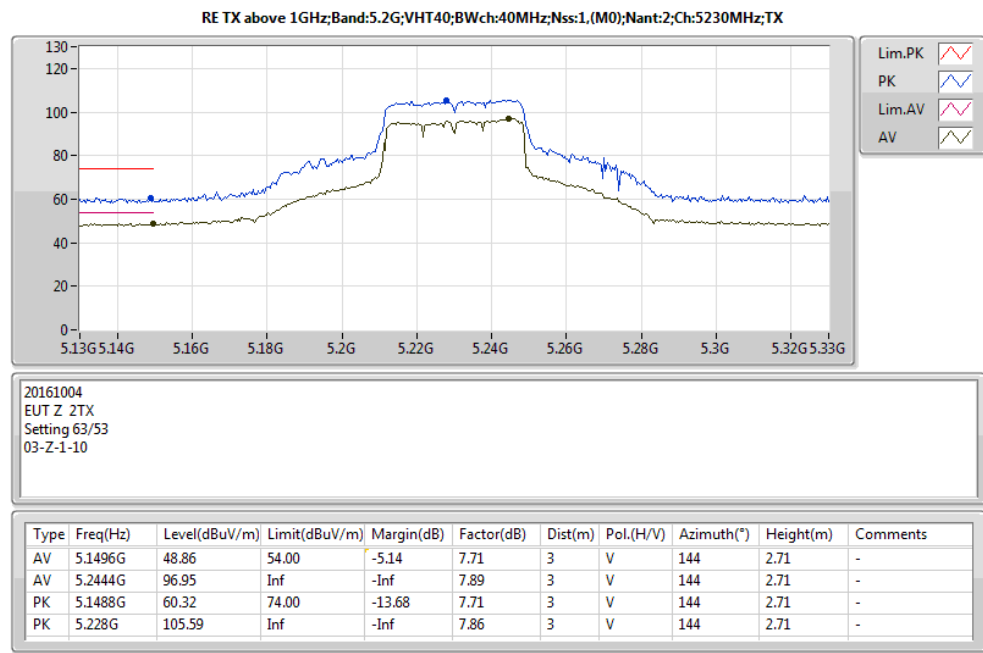


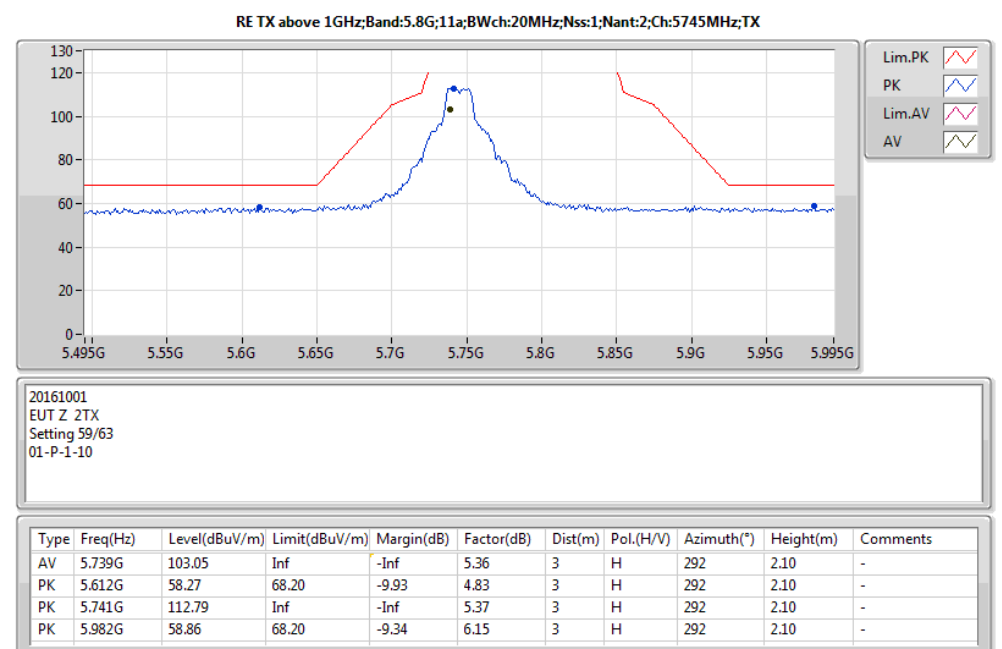
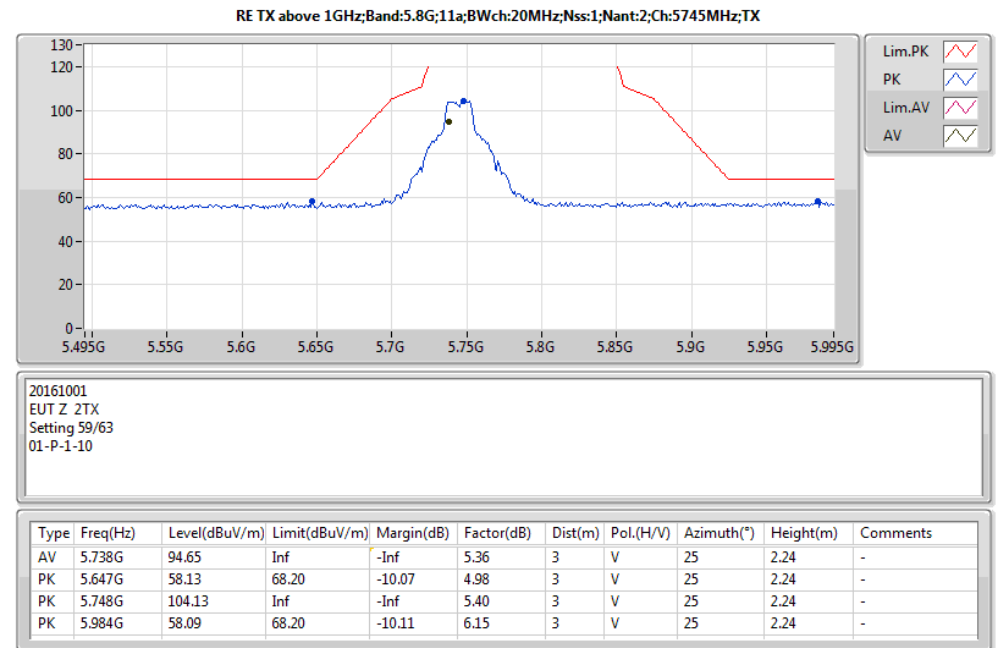
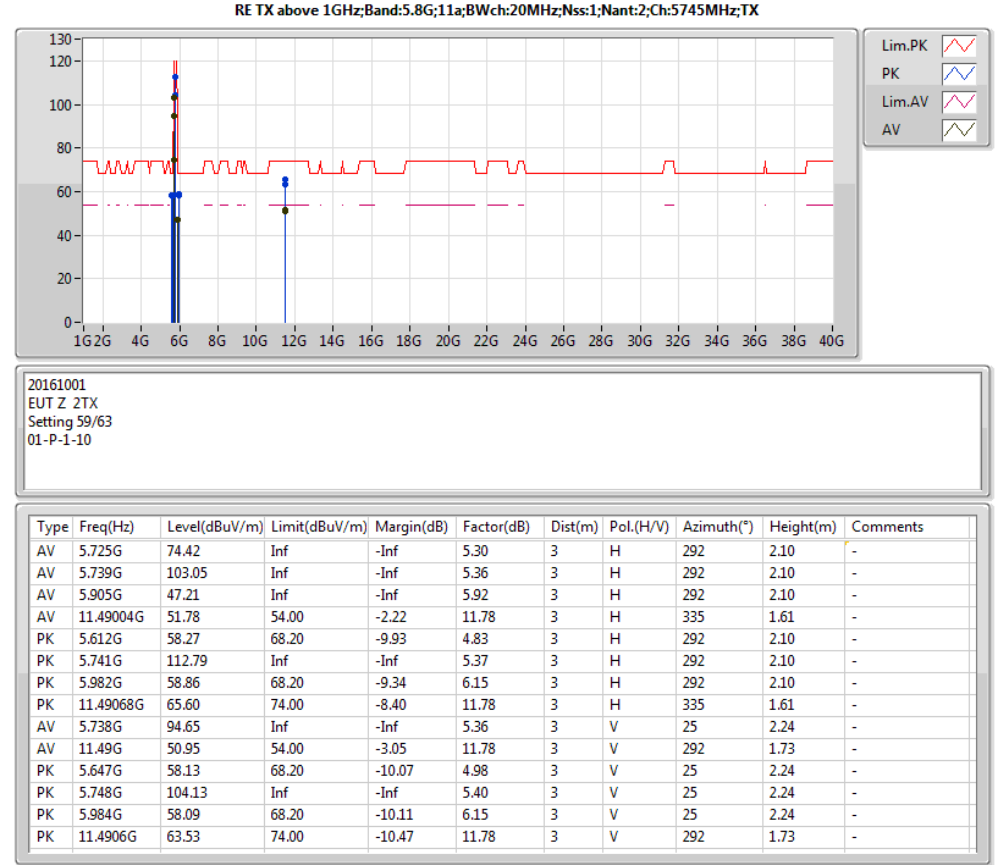
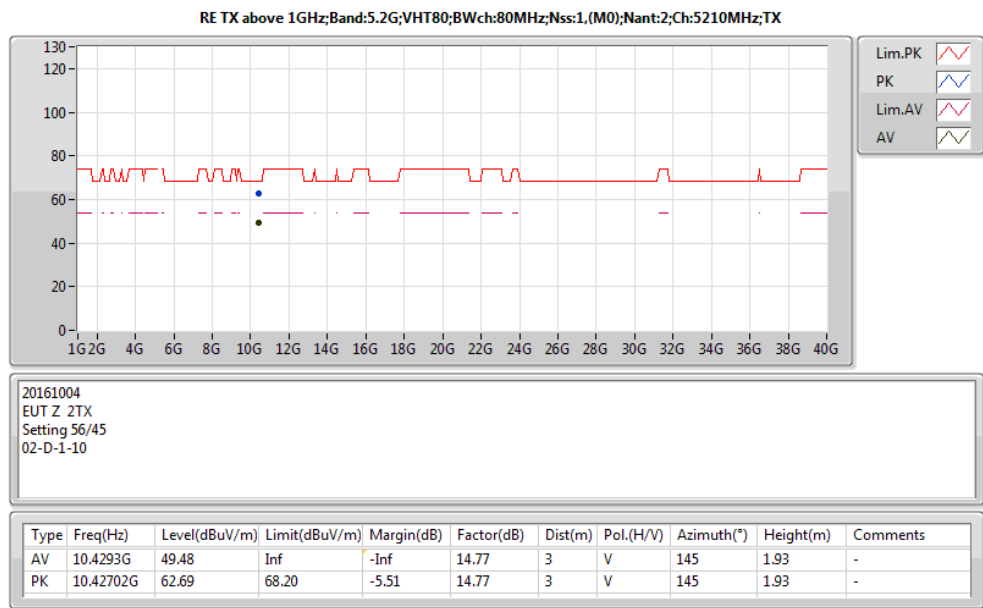
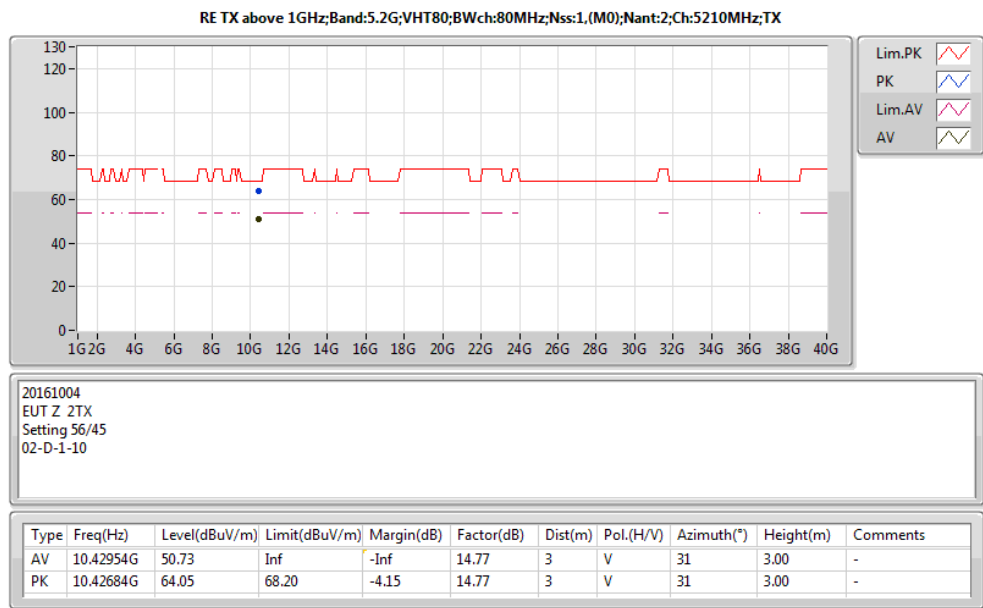
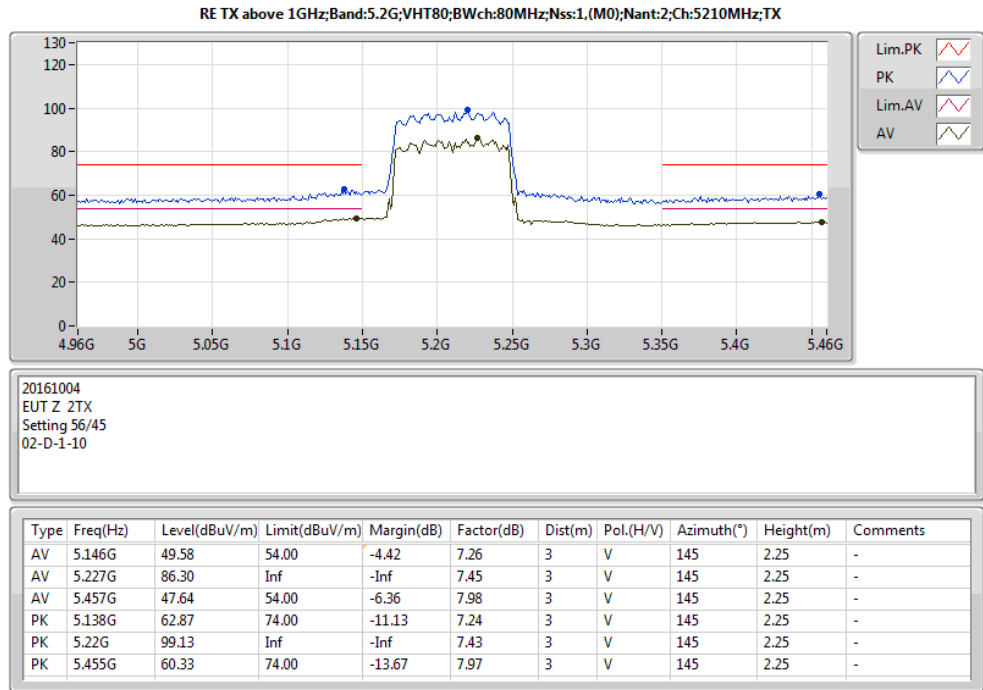


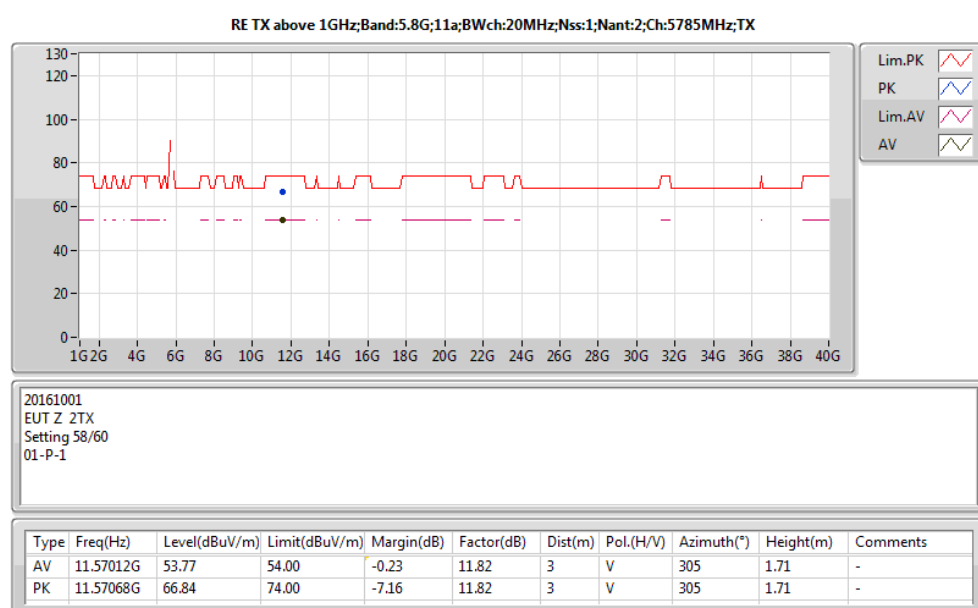
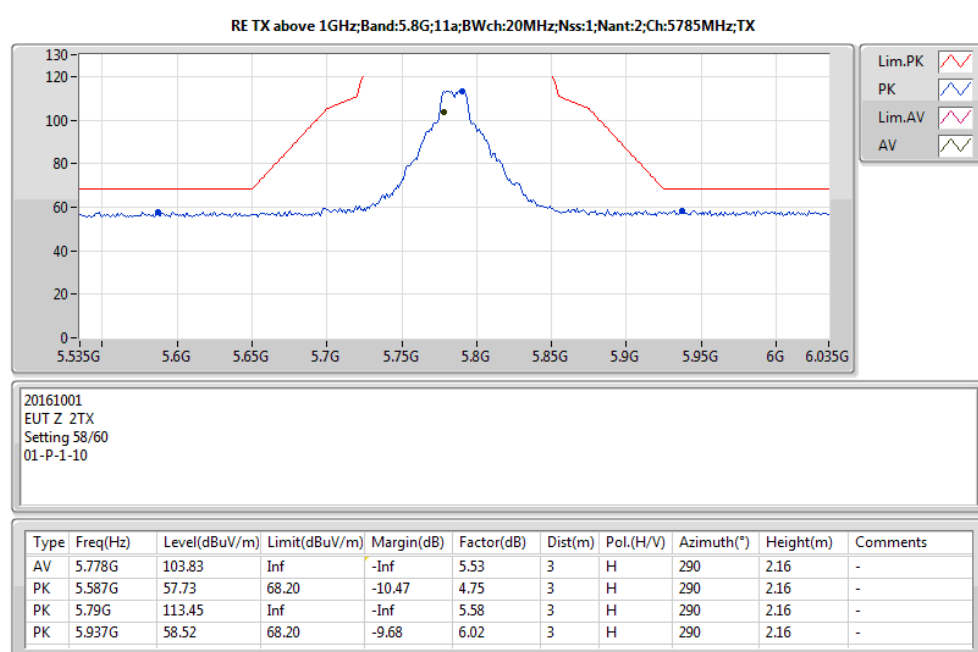
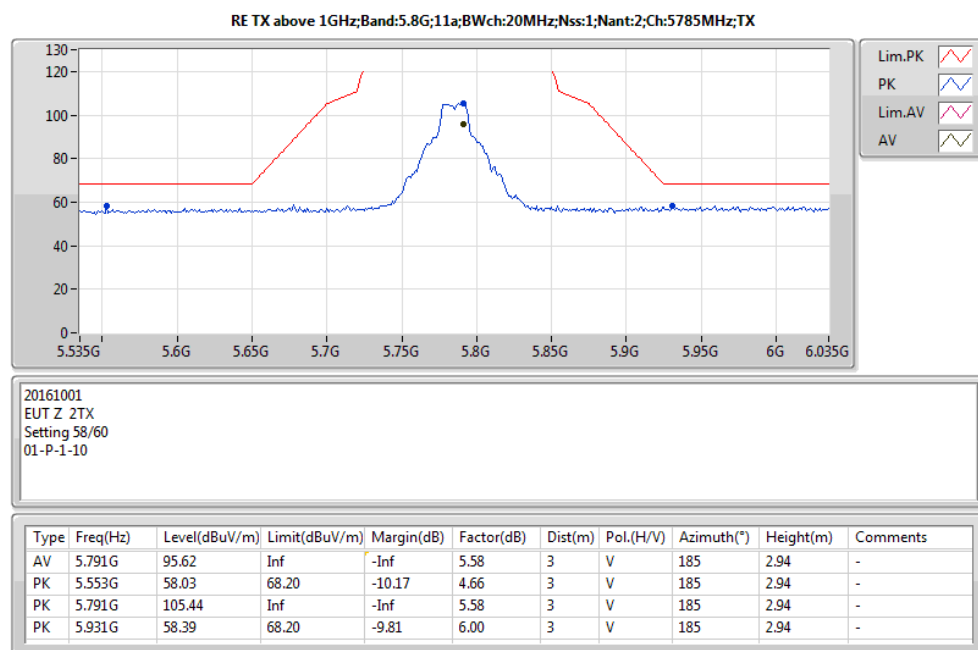
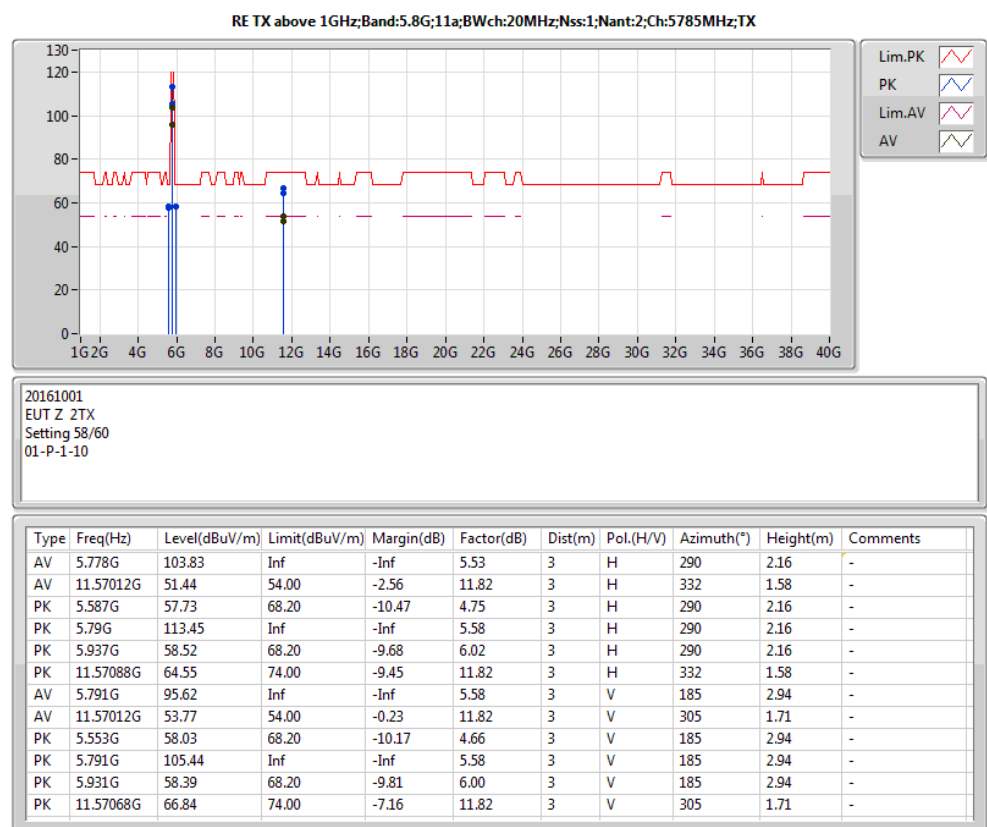
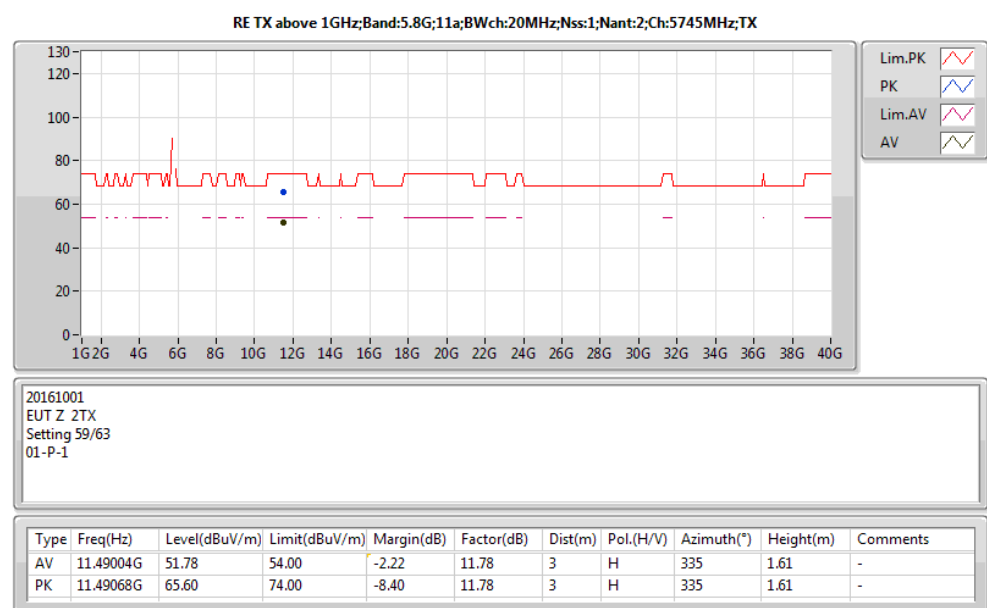
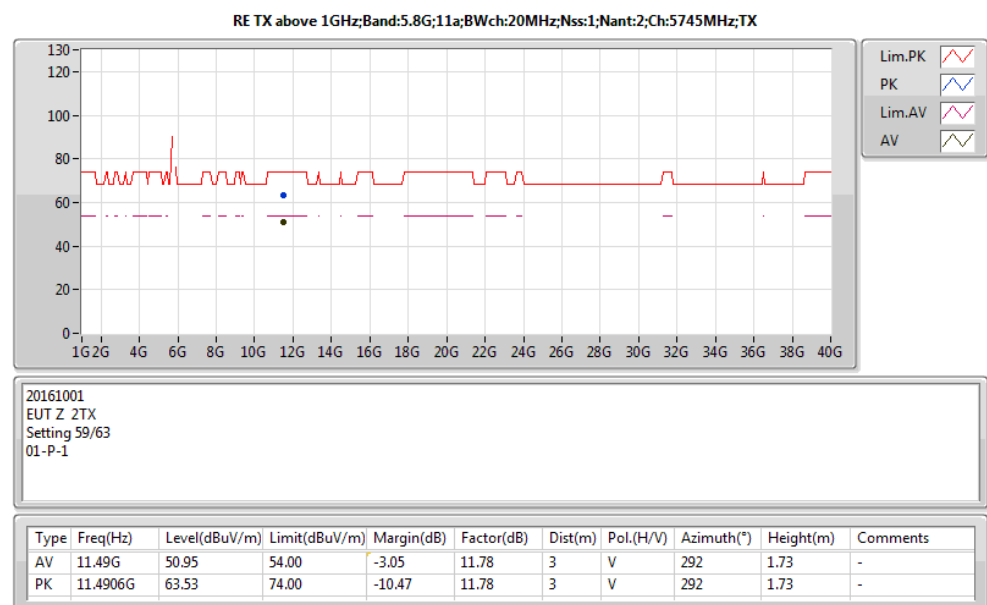


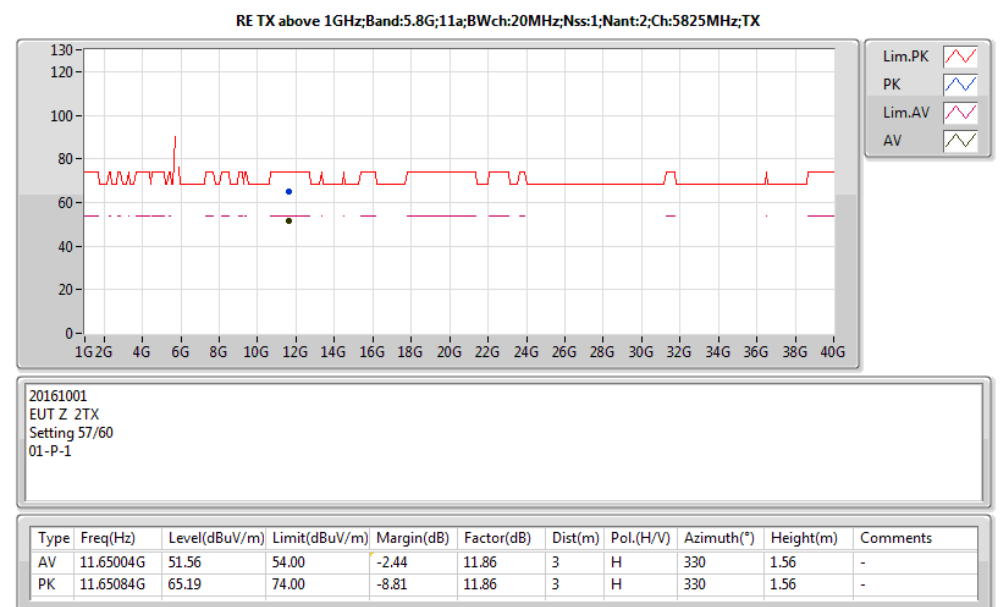
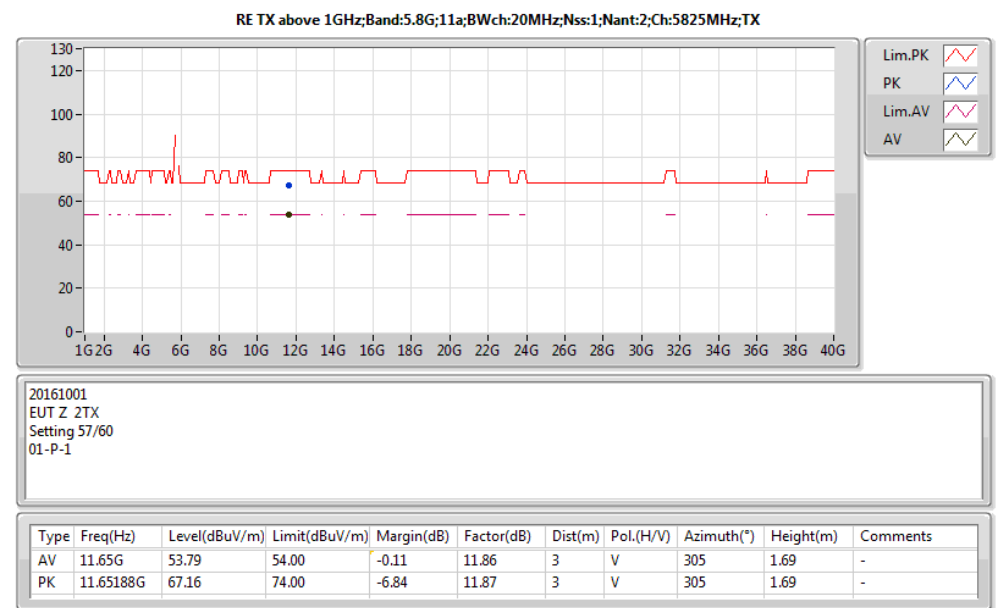
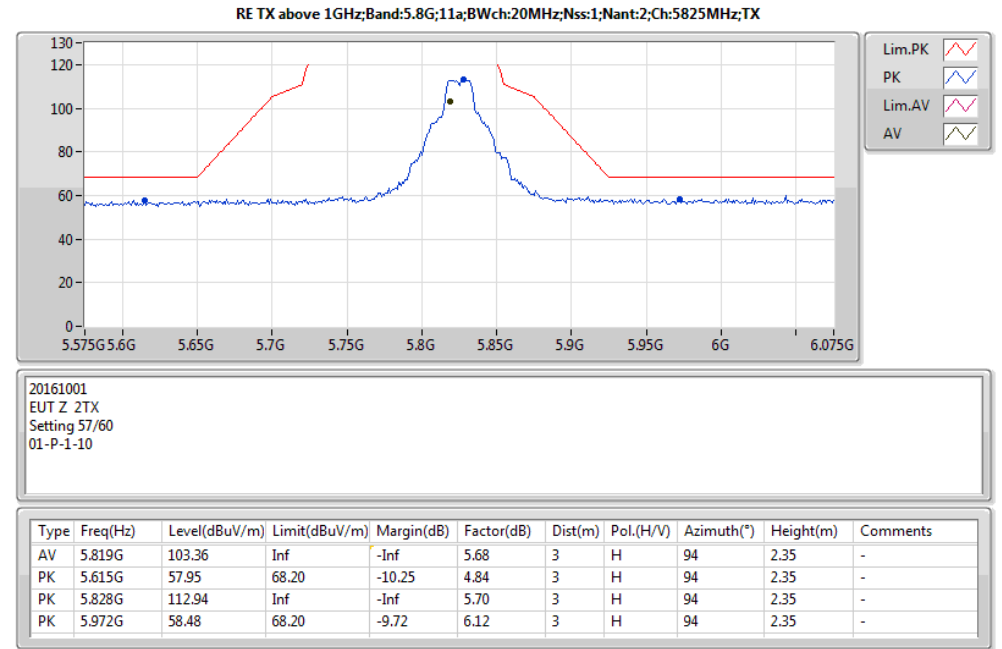
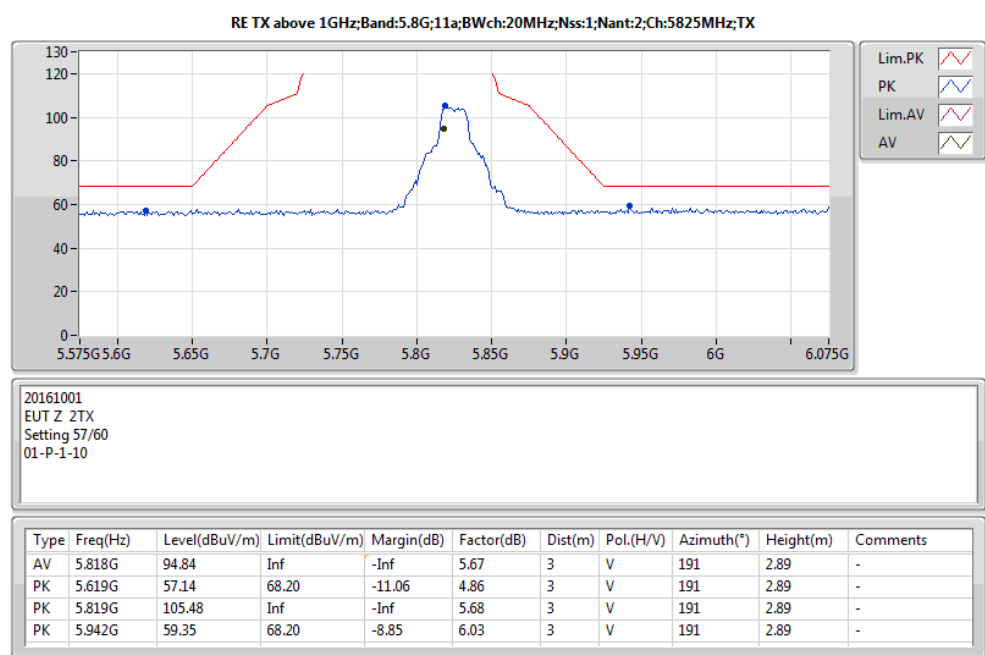
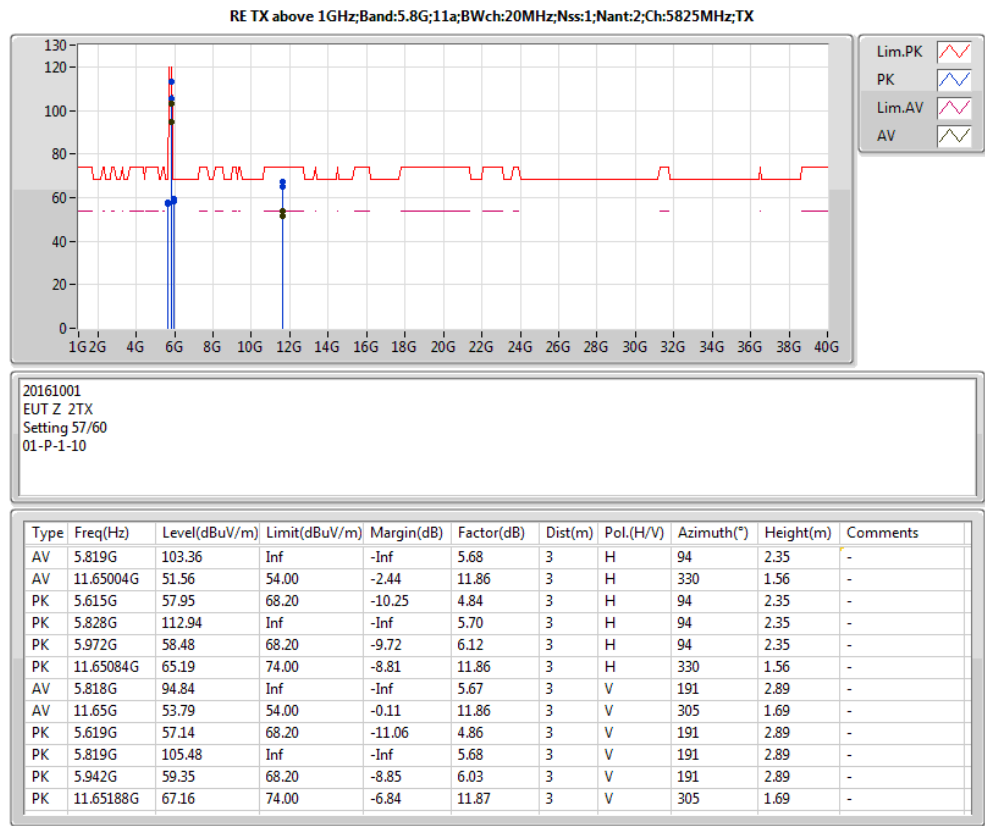
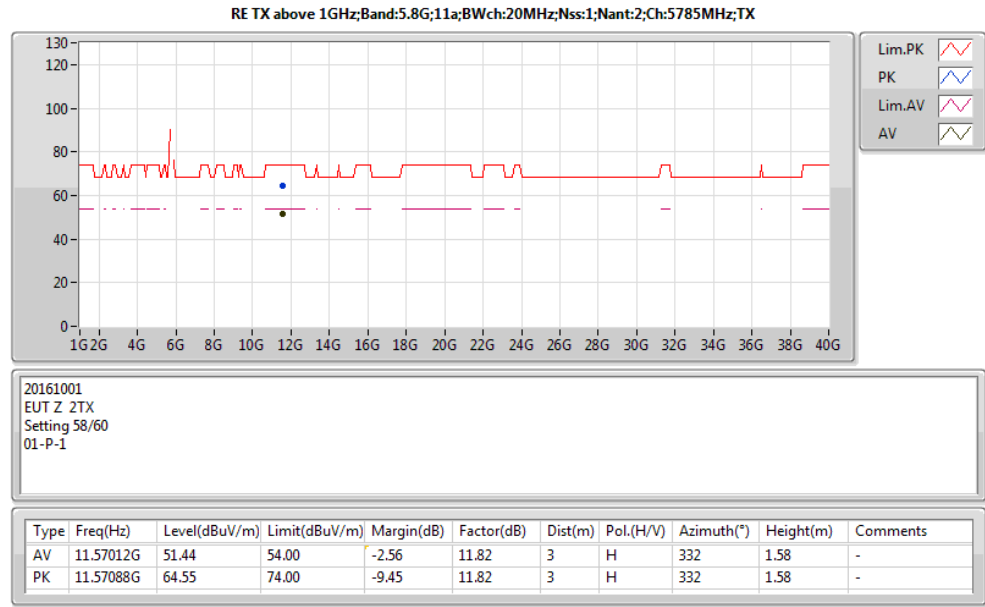


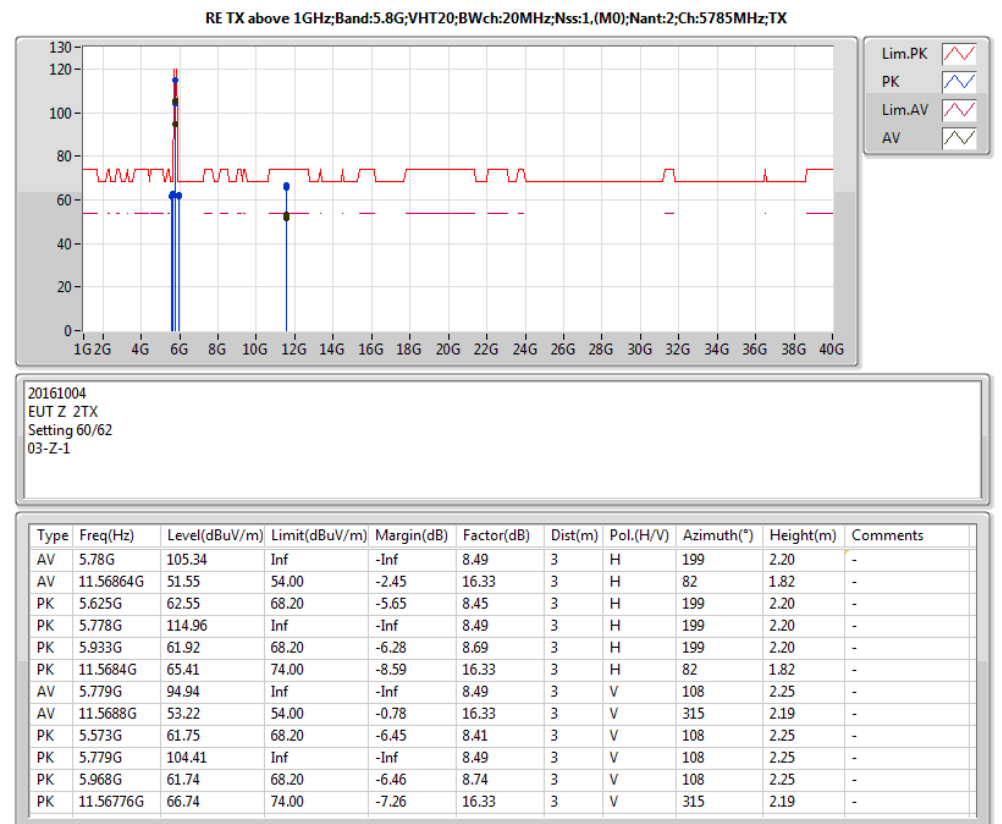
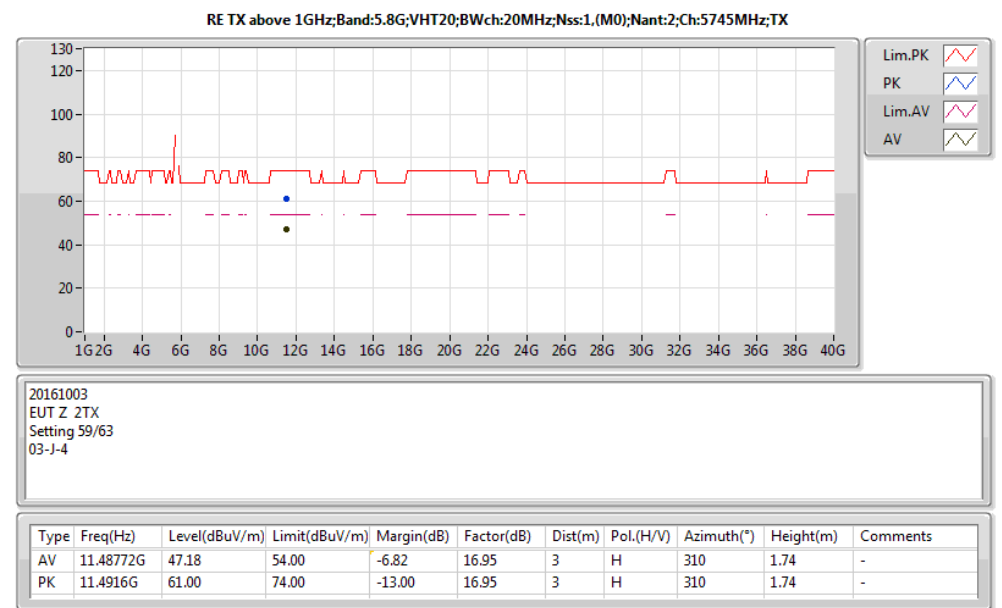
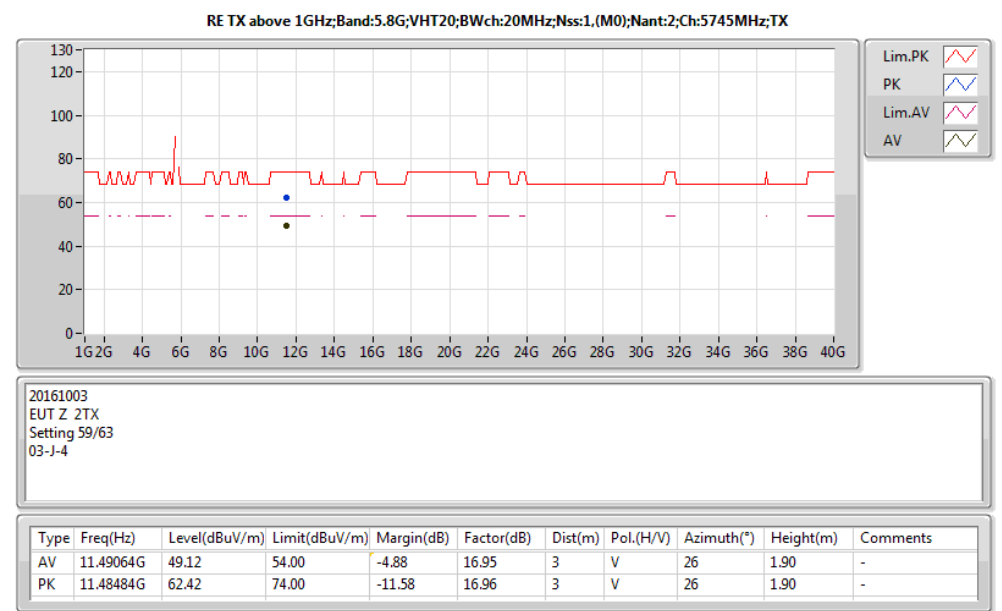
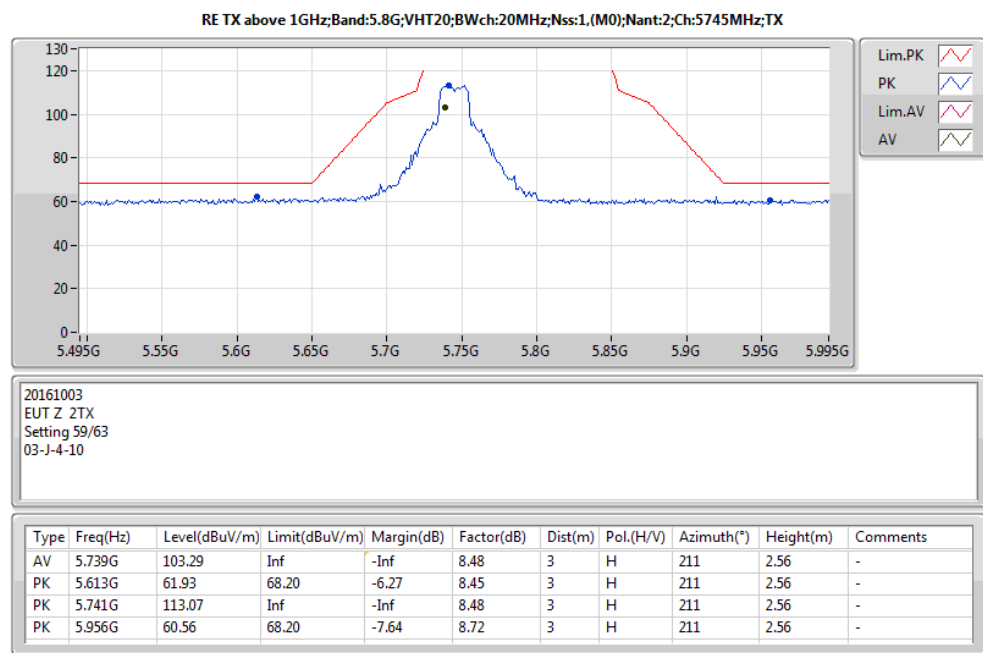
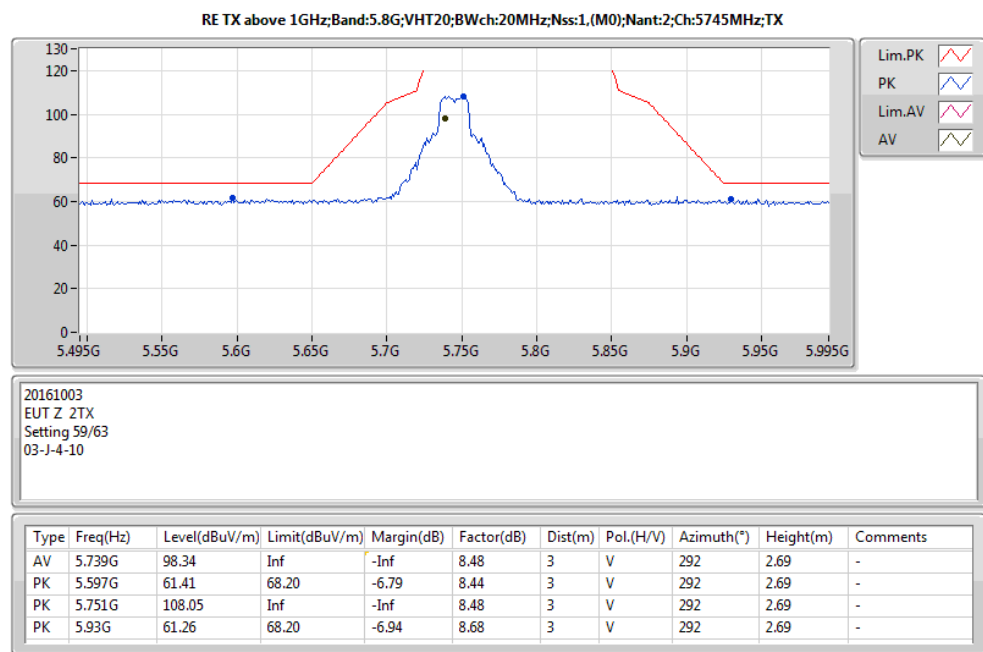
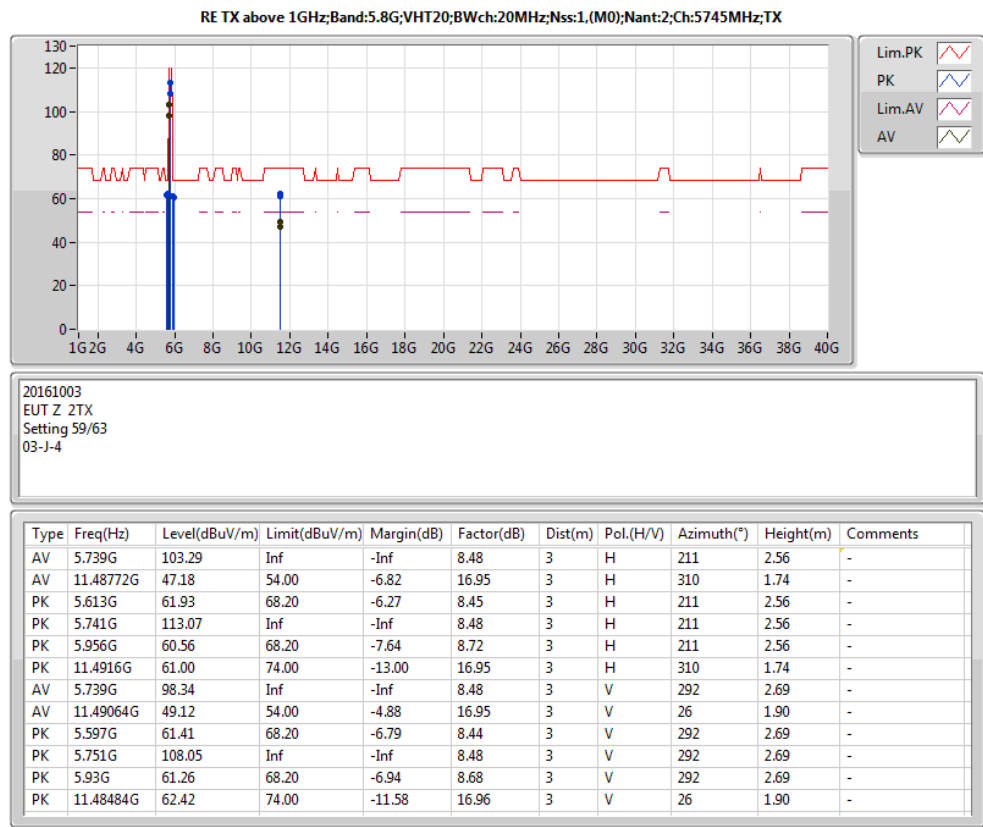


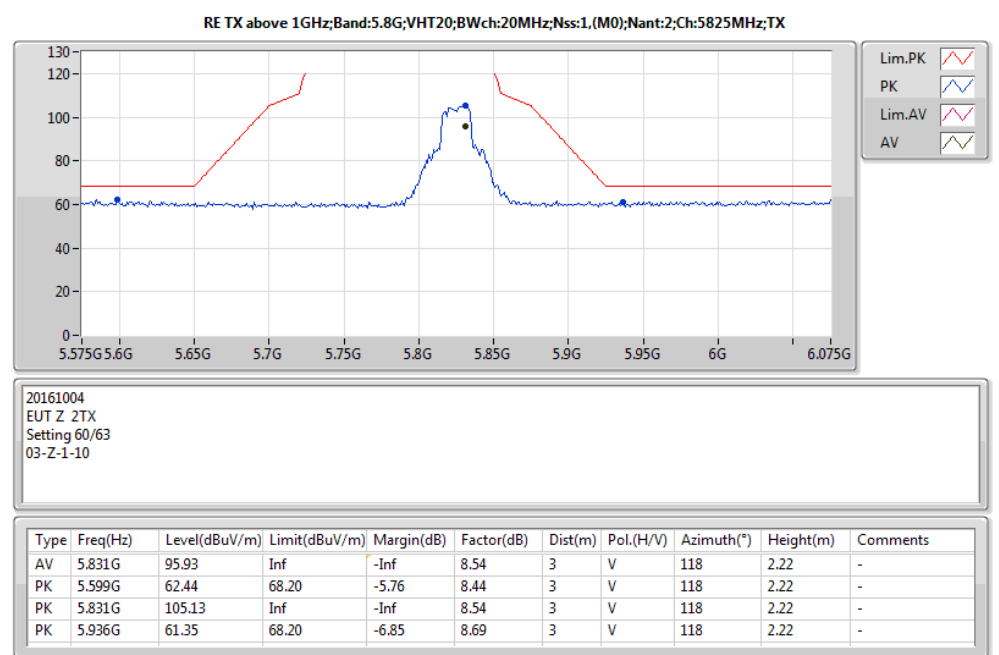
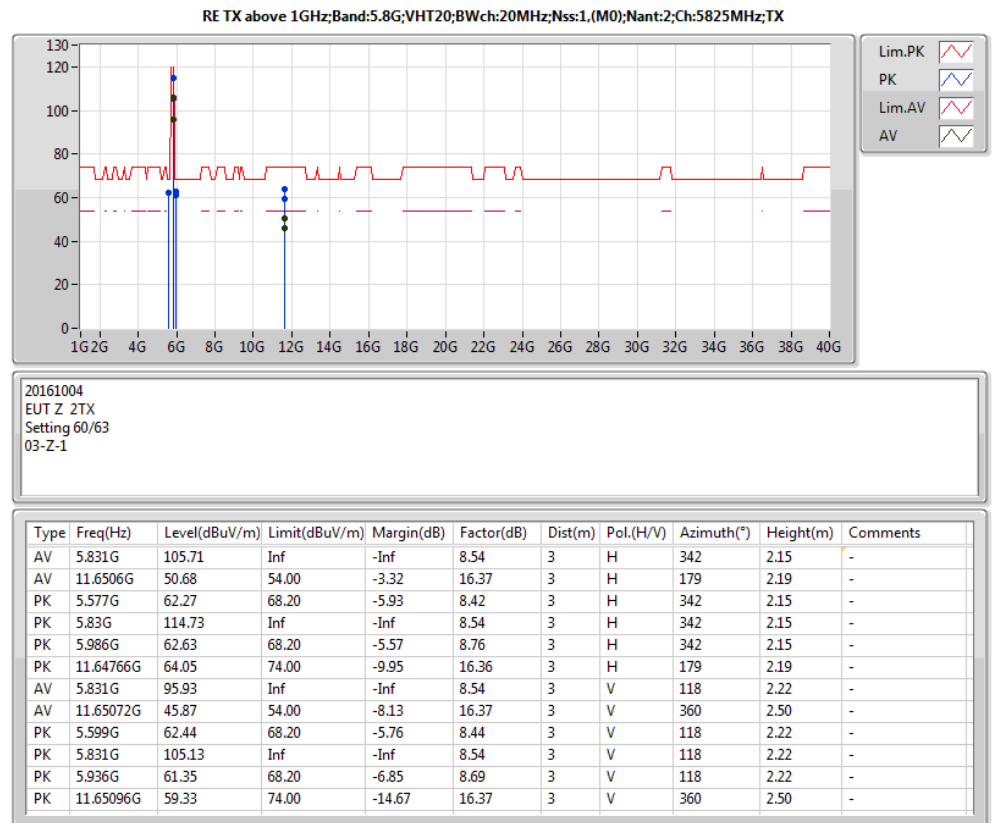
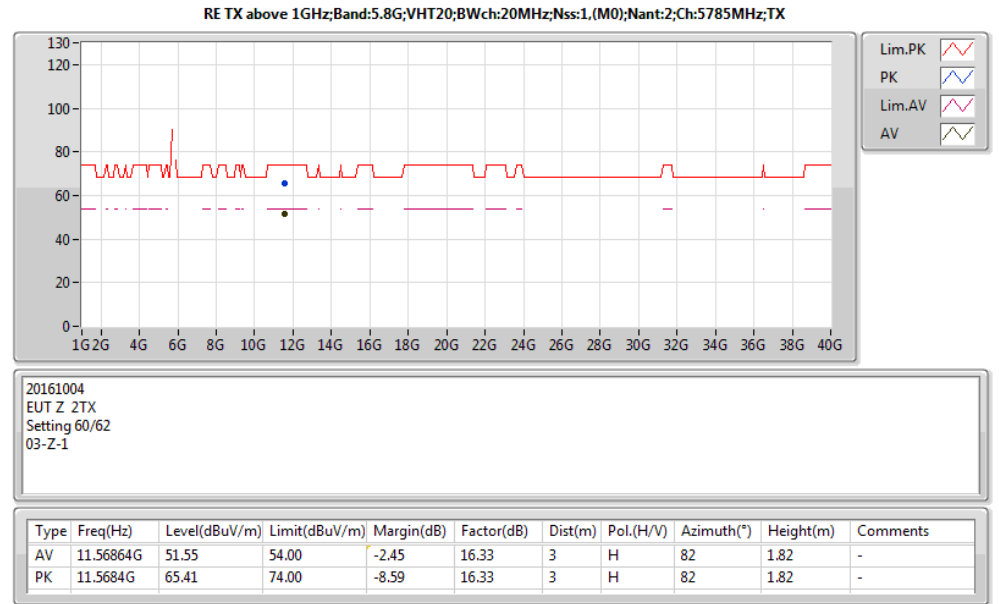
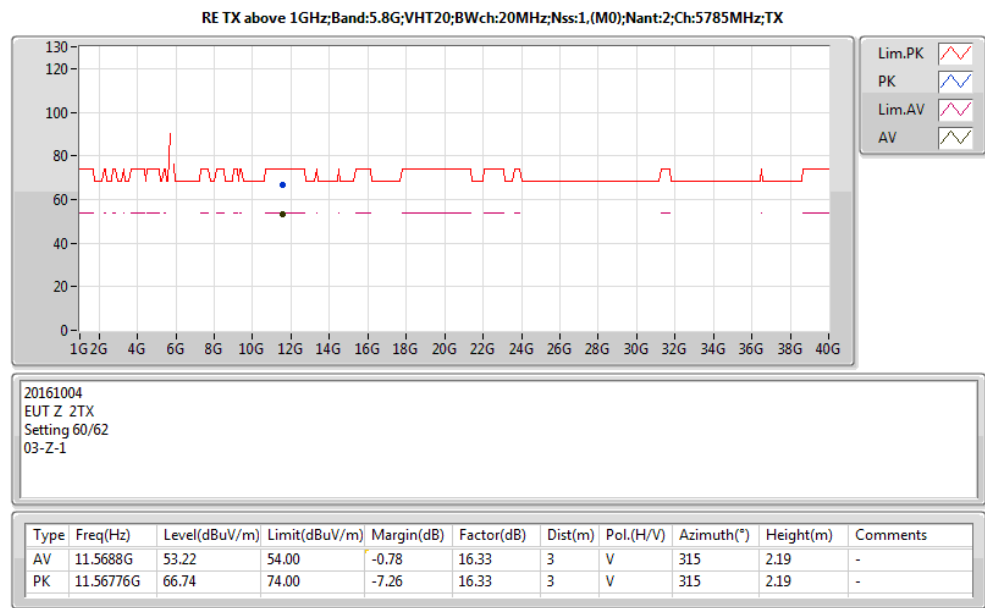
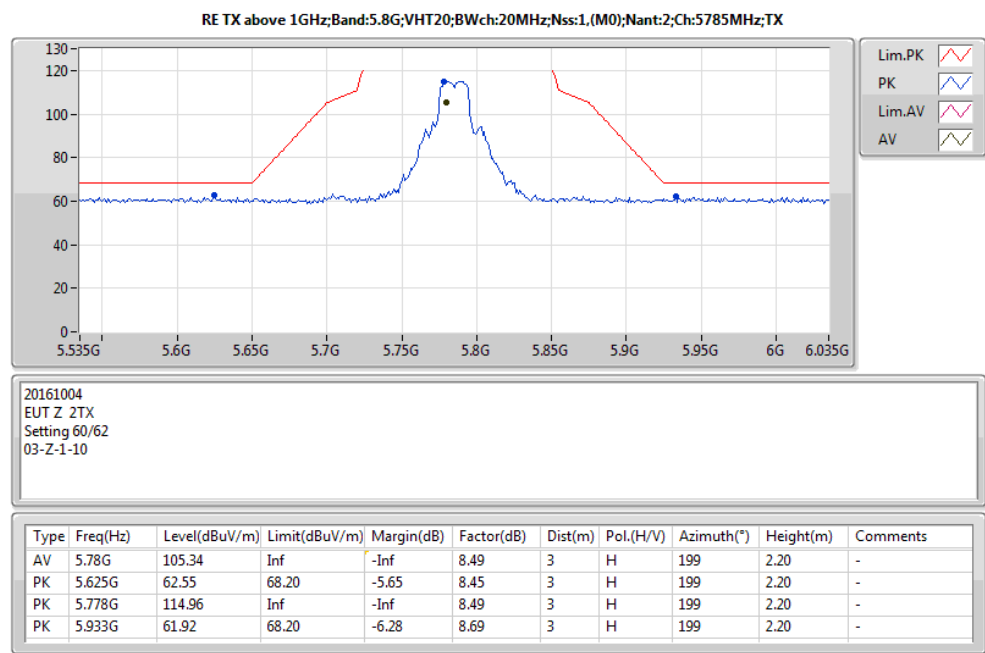
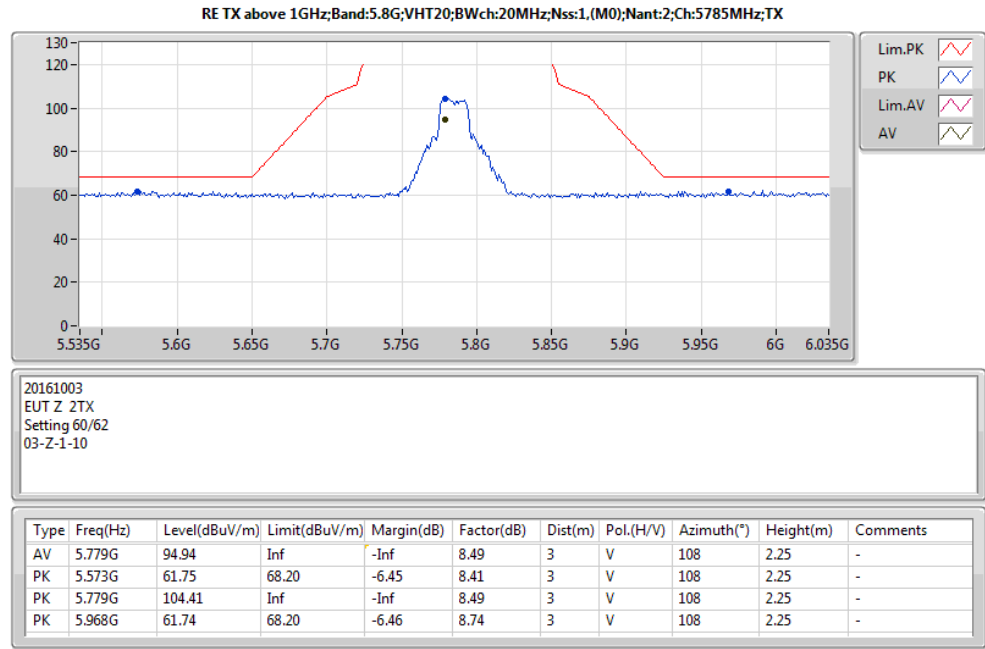


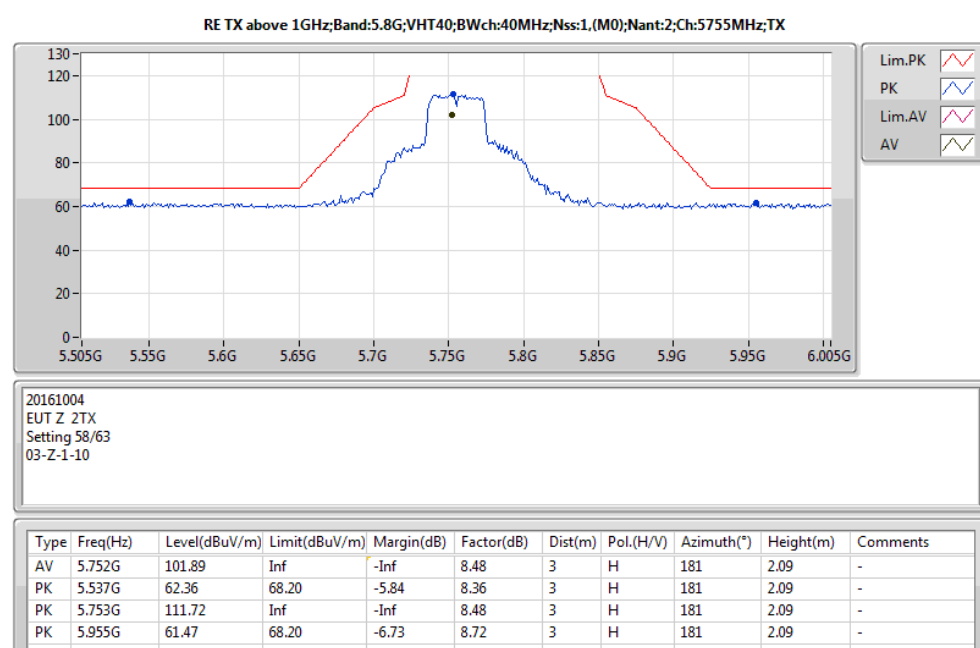
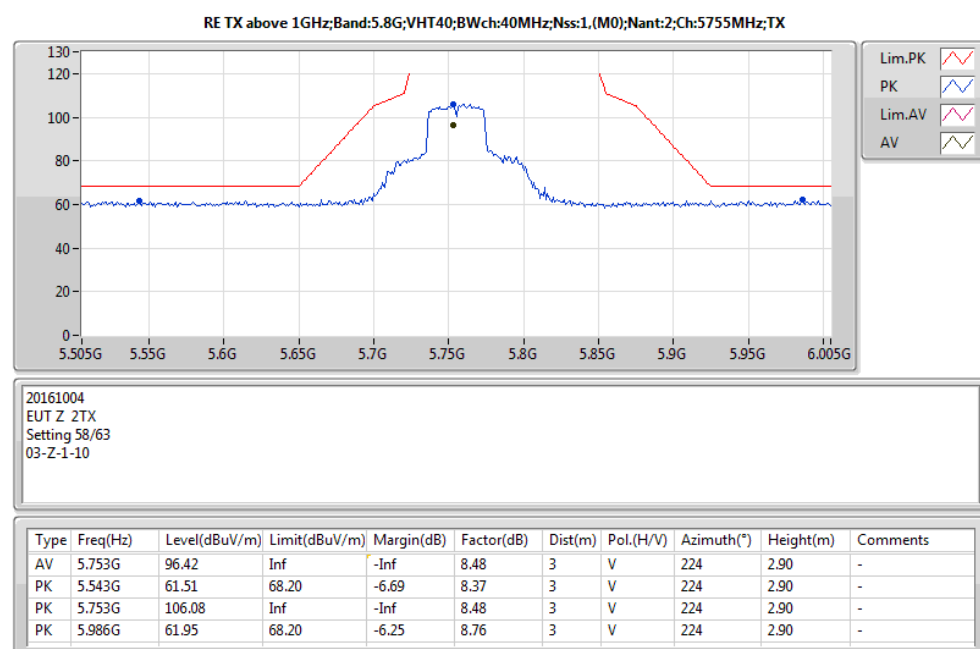
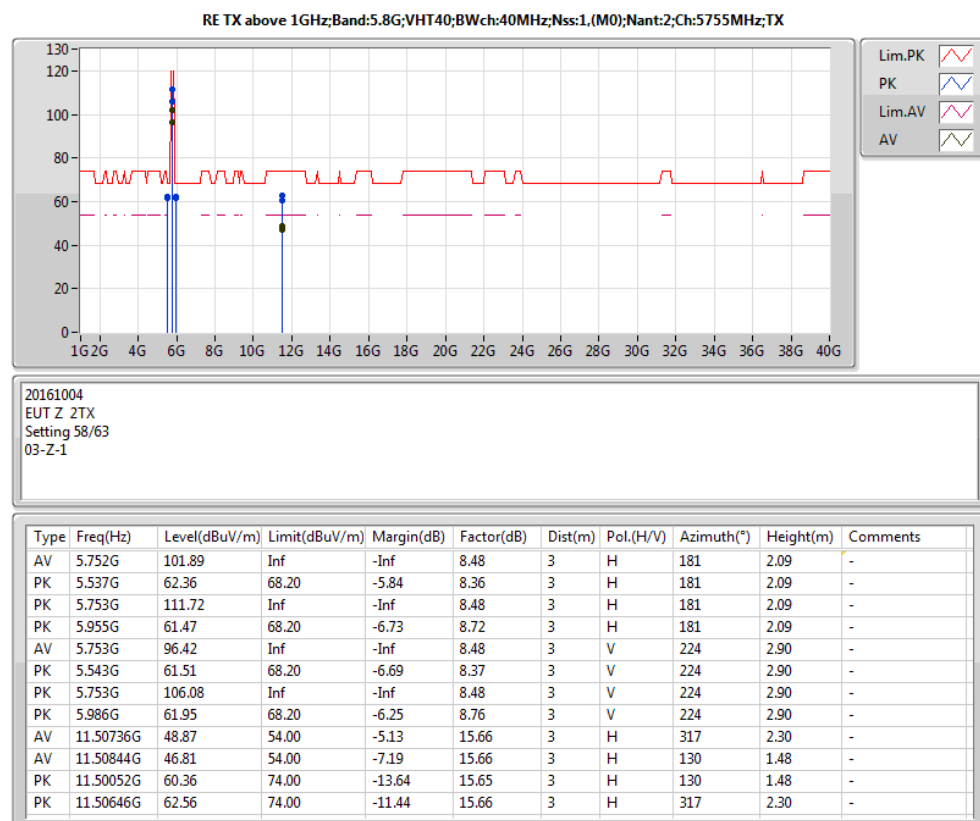
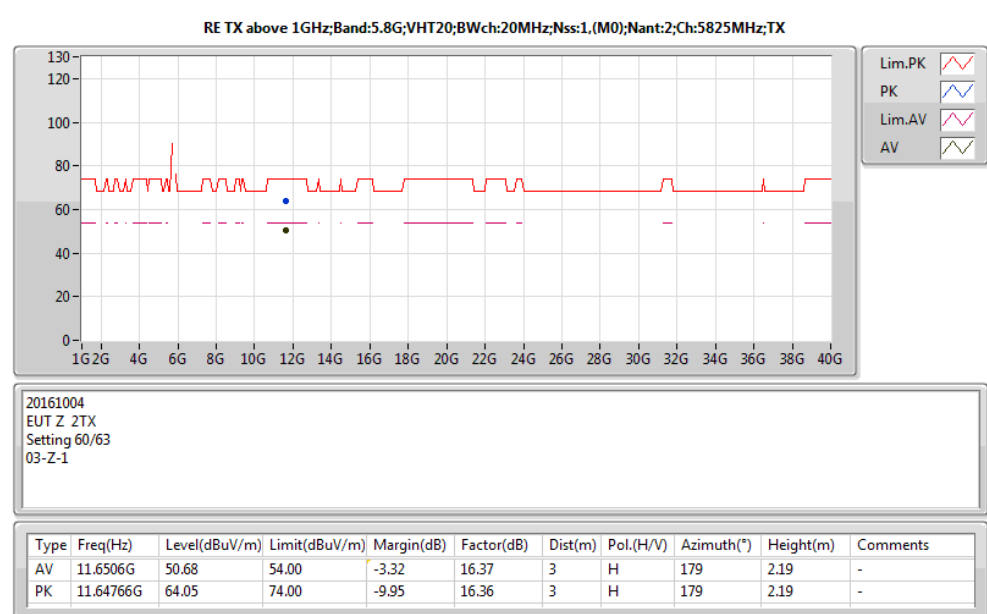
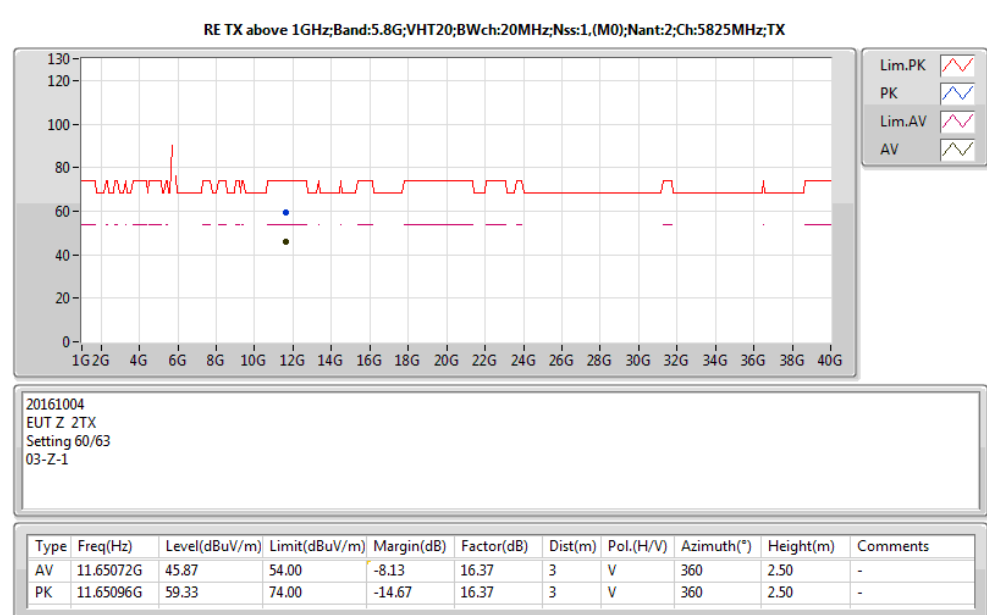
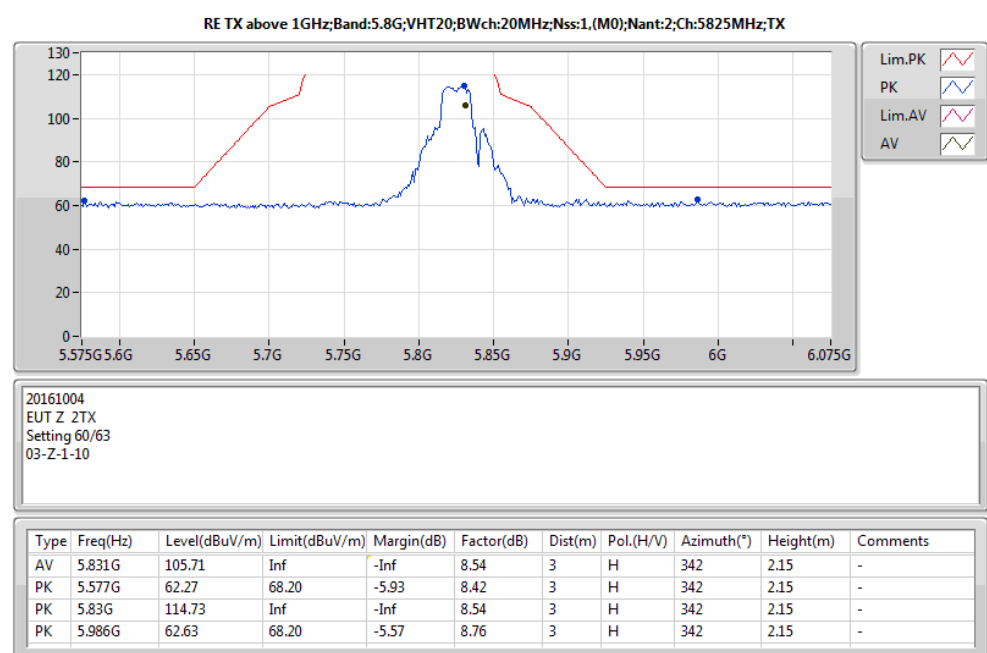


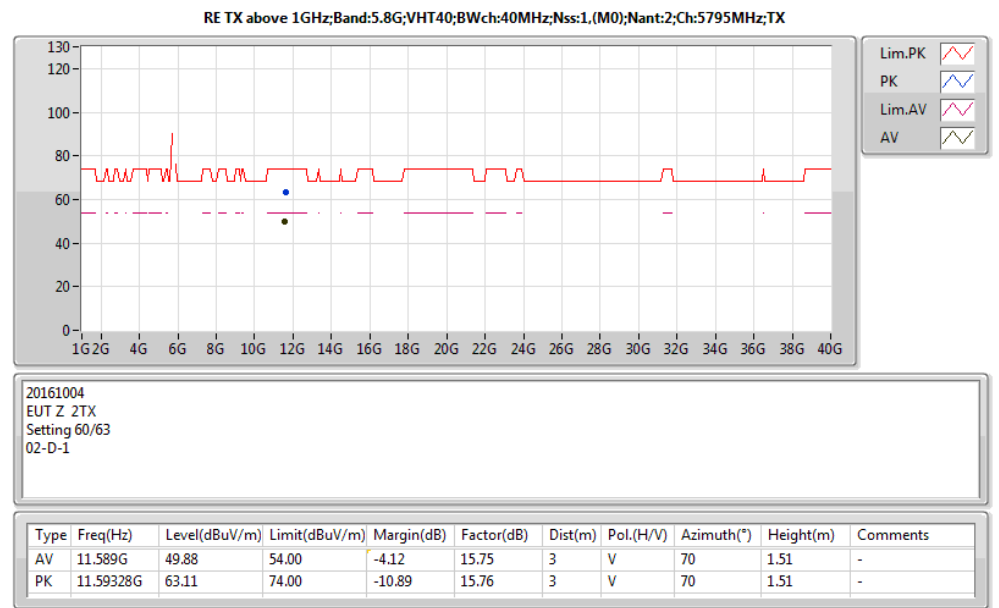
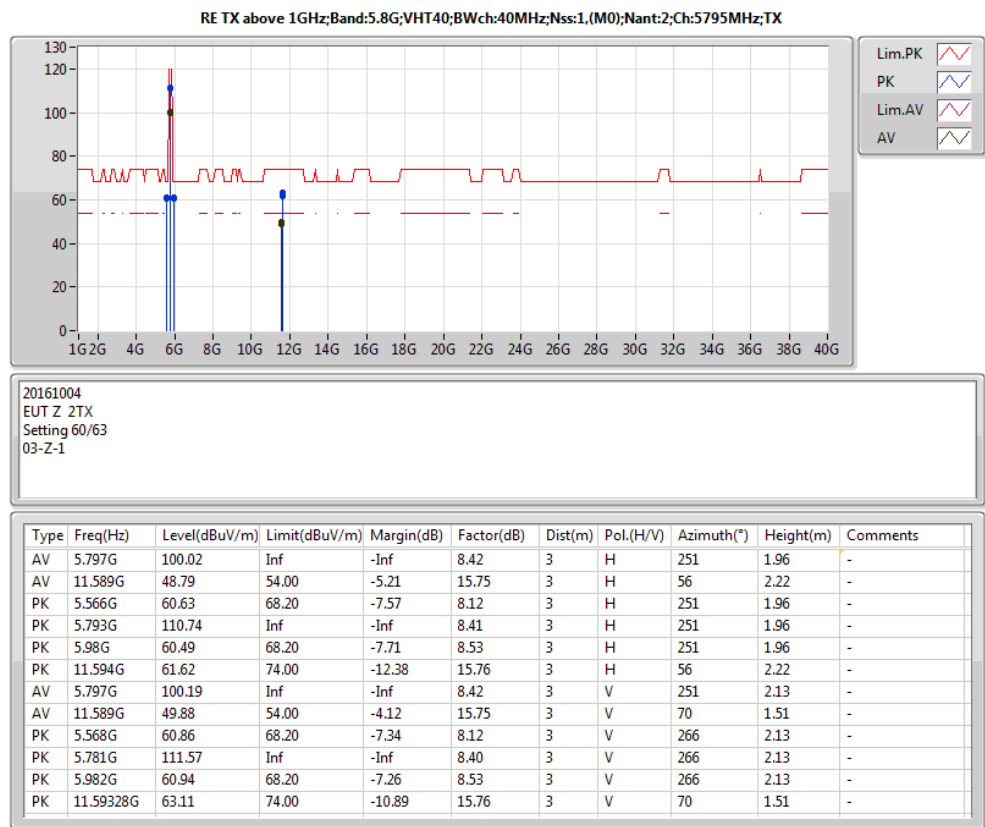
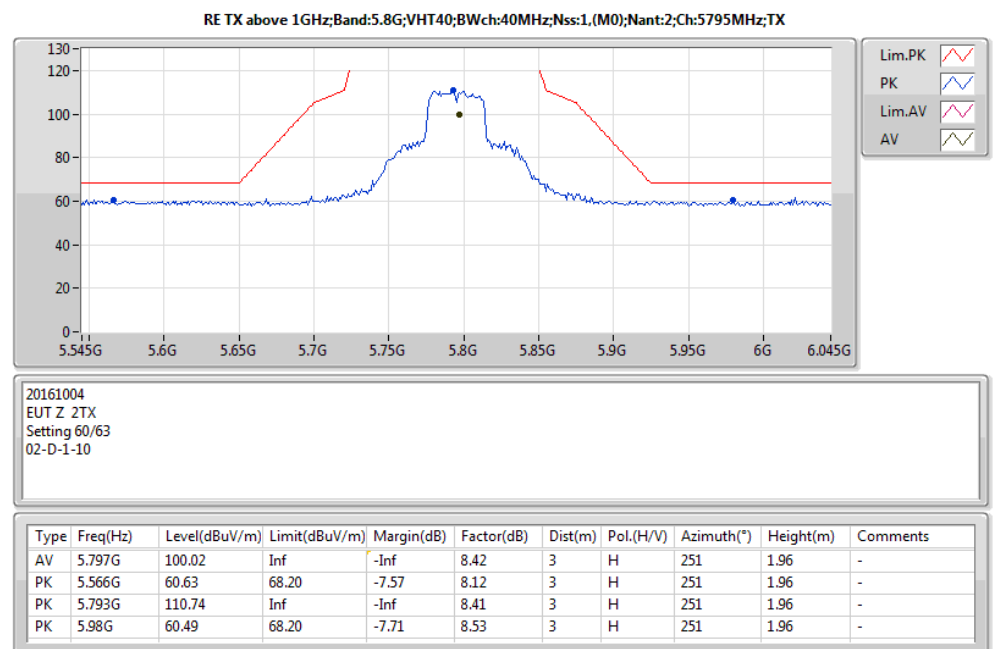
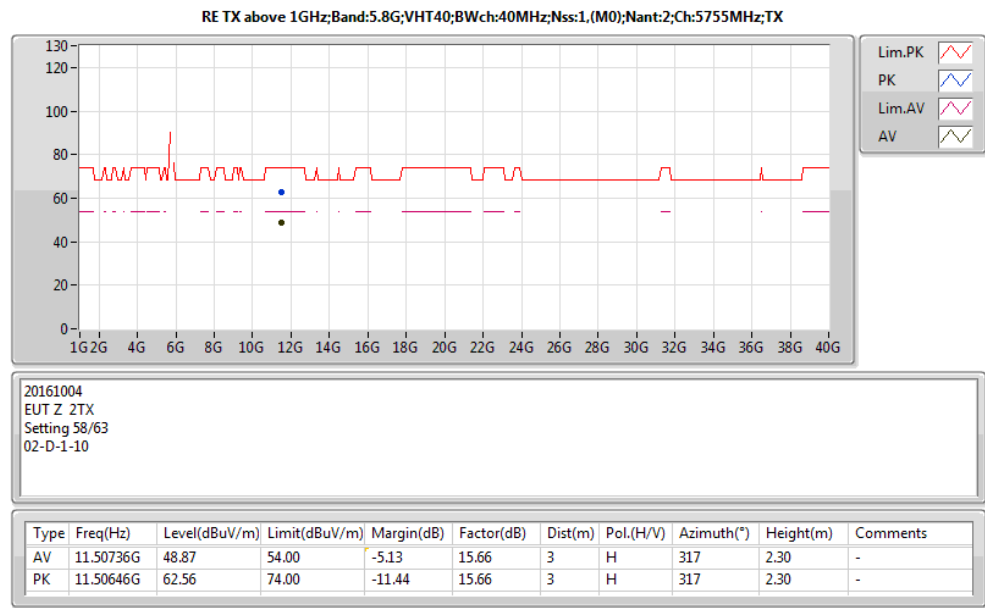
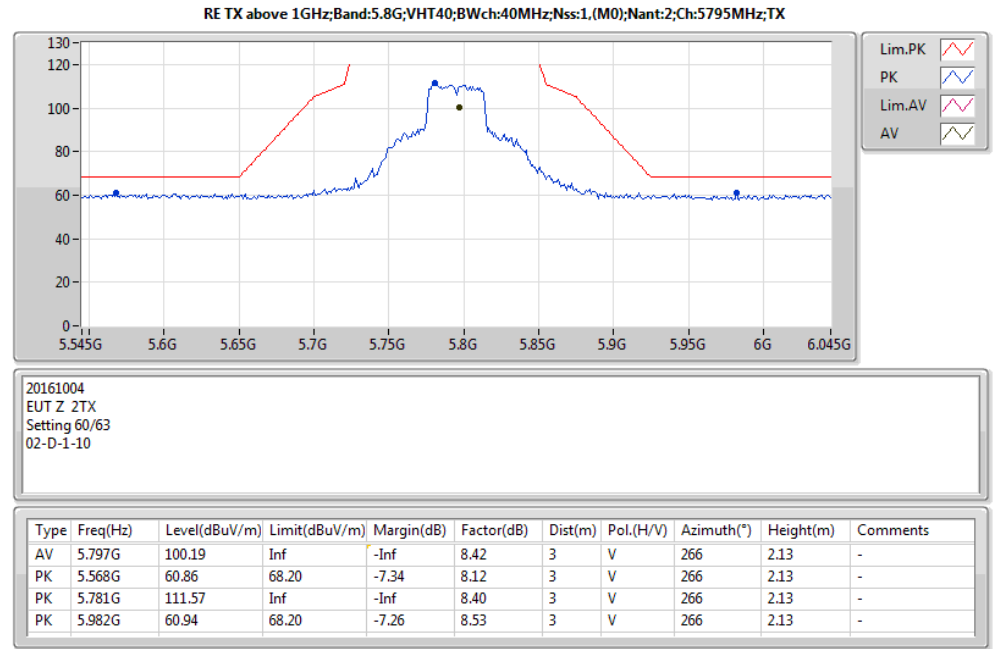
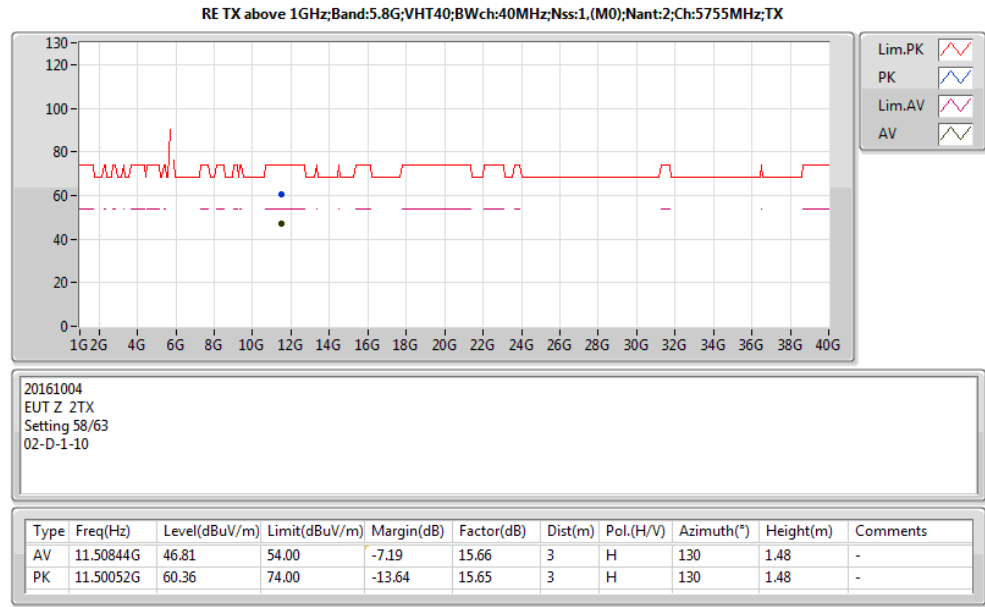


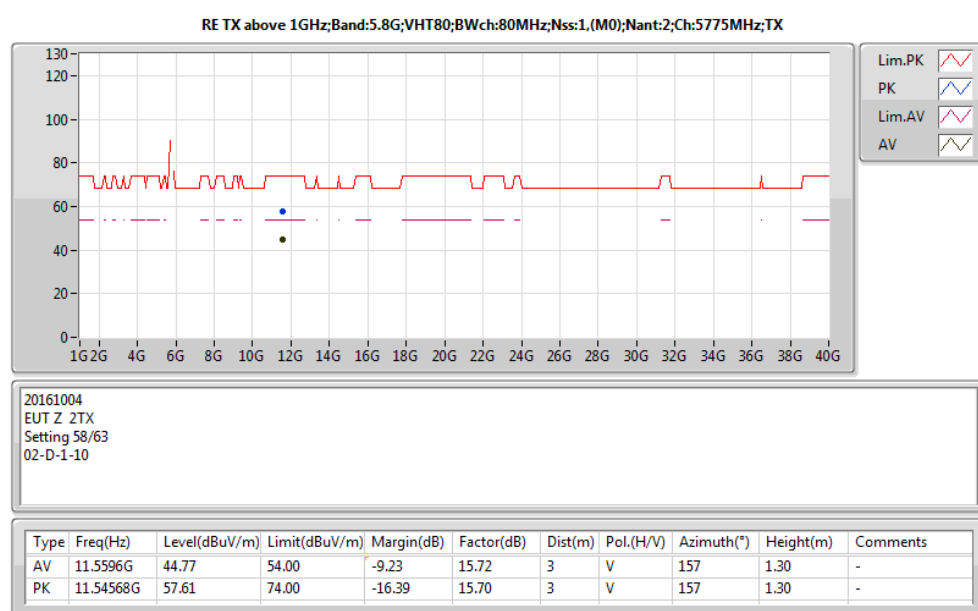
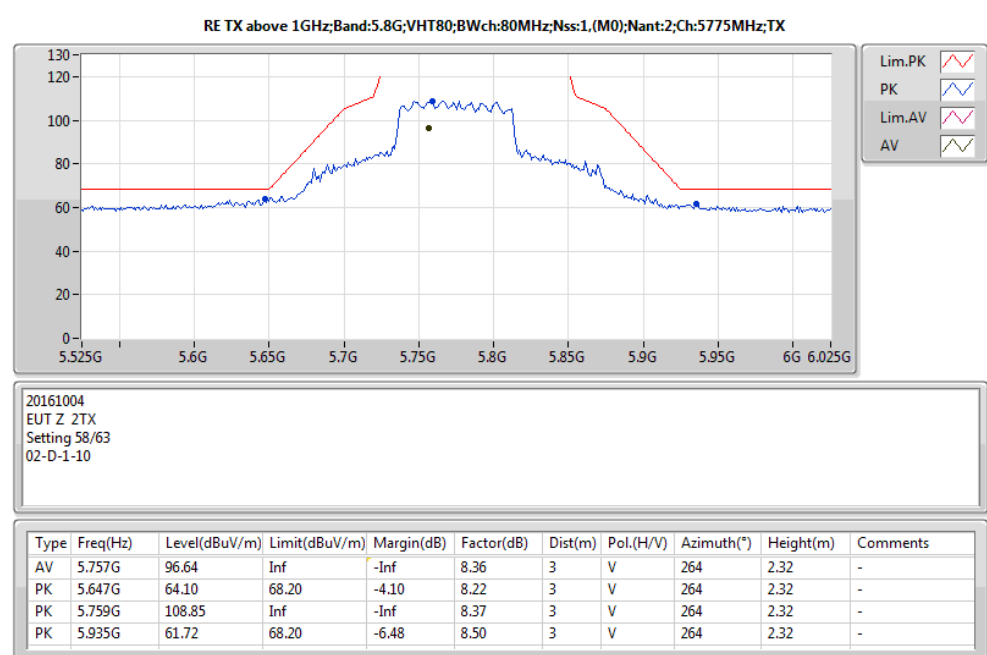
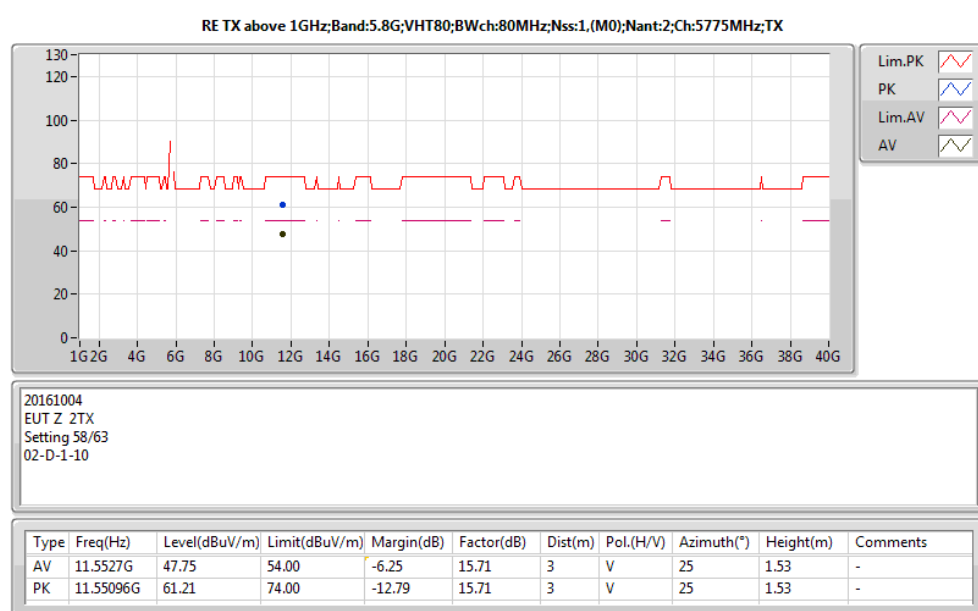
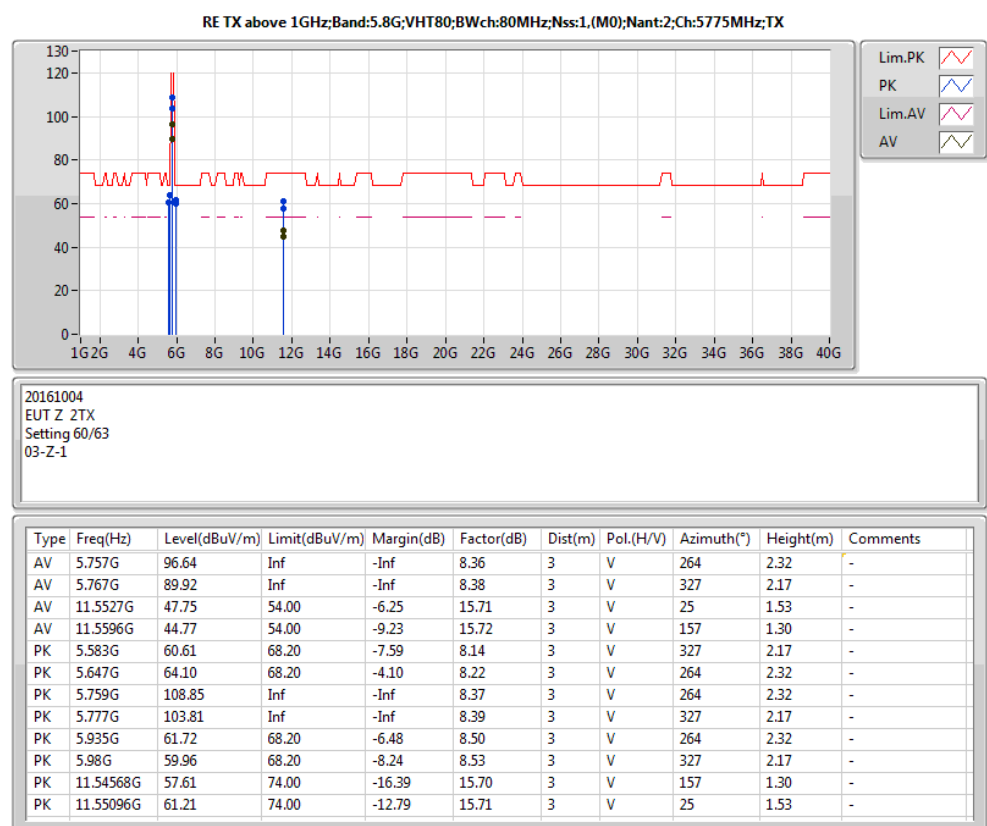
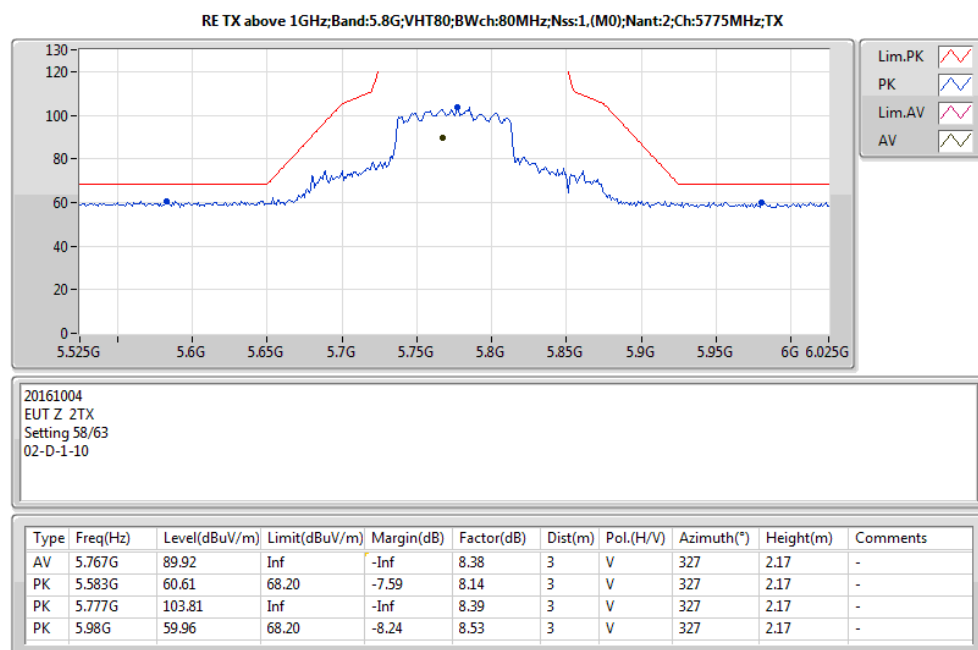
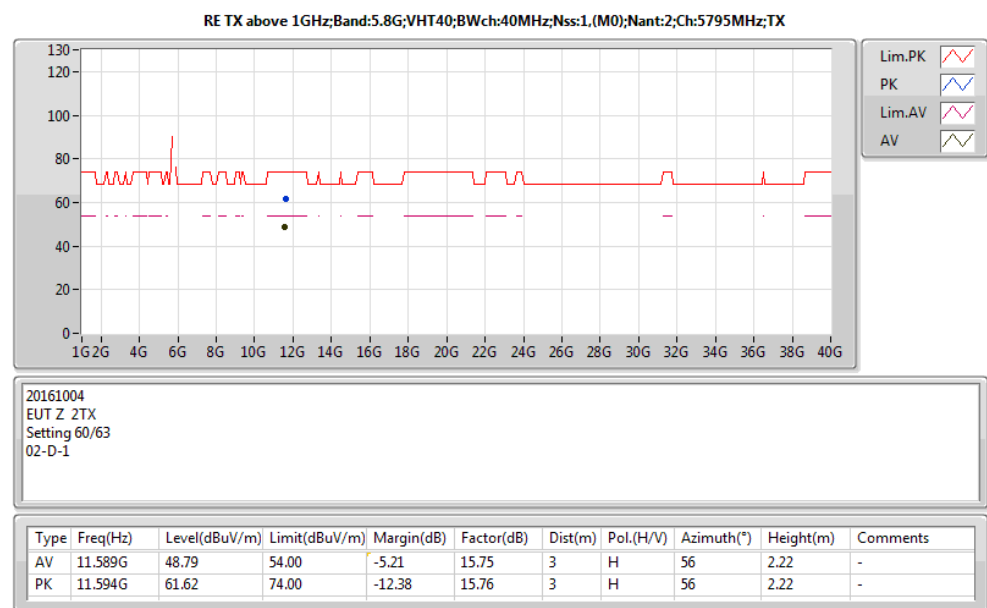














Mode: 20 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9944	5199.9937	5199.9927	5199.9926
110.00	5199.9943	5199.9937	5199.9934	5199.9931
93.50	5199.9941	5199.9938	5199.9928	5199.9926
Max. Deviation (MHz)	0.0059	0.0063	0.0073	0.0074
Max. Deviation (ppm)	1.13	1.21	1.40	1.42
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9896	5199.9892	5199.9884	5199.9877
10	5199.9907	5199.9902	5199.9899	5199.9891
20	5199.9916	5199.9910	5199.9906	5199.9899
30	5199.9932	5199.9923	5199.9917	5199.9909
40	5199.9933	5199.9923	5199.9913	5199.9908
Max. Deviation (MHz)	0.0104	0.0108	0.0116	0.0123
Max. Deviation (ppm)	2.00	2.08	2.23	2.37
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9951	5784.9946	5784.9945	5784.9940
110.00	5784.9943	5784.9942	5784.9939	5784.9929
93.50	5784.9938	5784.9929	5784.9924	5784.9919
Max. Deviation (MHz)	0.0062	0.0071	0.0076	0.0081
Max. Deviation (ppm)	1.07	1.23	1.31	1.40
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9891	5784.9884	5784.9883	5784.9878
10	5784.9906	5784.9900	5784.9899	5784.9892
20	5784.9916	5784.9914	5784.9912	5784.9905
30	5784.9932	5784.9928	5784.9927	5784.9918
40	5784.9937	5784.9929	5784.9925	5784.9919
Max. Deviation (MHz)	0.0109	0.0116	0.0117	0.0122
Max. Deviation (ppm)	1.88	2.01	2.02	2.11
Result	Pass			

Mode: 40 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5189.9922	5189.9920	5189.9913	5189.9903
110.00	5189.9916	5189.9910	5189.9906	5189.9898
93.50	5189.9906	5189.9905	5189.9904	5189.9899
Max. Deviation (MHz)	0.0094	0.0095	0.0096	0.0102
Max. Deviation (ppm)	1.81	1.83	1.85	1.97
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9887	5189.9880	5189.9875	5189.9872
10	5189.9904	5189.9897	5189.9893	5189.9886
20	5189.9916	5189.9912	5189.9904	5189.9894
30	5189.9932	5189.9927	5189.9918	5189.9911
40	5189.9943	5189.9939	5189.9929	5189.9923
Max. Deviation (MHz)	0.0113	0.0120	0.0125	0.0128
Max. Deviation (ppm)	2.18	2.31	2.41	2.47
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9920	5754.9913	5754.9904	5754.9903
110.00	5754.9916	5754.9906	5754.9904	5754.9900
93.50	5754.9910	5754.9908	5754.9907	5754.9906
Max. Deviation (MHz)	0.0090	0.0094	0.0096	0.0100
Max. Deviation (ppm)	1.56	1.63	1.67	1.74
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9909	5754.9901	5754.9900	5754.9891
10	5754.9912	5754.9904	5754.9900	5754.9899
20	5754.9916	5754.9914	5754.9906	5754.9904
30	5754.9932	5754.9924	5754.9916	5754.9909
40	5754.9952	5754.9945	5754.9944	5754.9942
Max. Deviation (MHz)	0.0091	0.0099	0.0100	0.0109
Max. Deviation (ppm)	1.58	1.72	1.74	1.89
Result	Pass			

Mode: 80 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5209.9917	5209.9909	5209.9900	5209.9890
110.00	5209.9916	5209.9910	5209.9903	5209.9901
93.50	5209.9906	5209.9903	5209.9899	5209.9893
Max. Deviation (MHz)	0.0094	0.0097	0.0101	0.0110
Max. Deviation (ppm)	1.80	1.86	1.94	2.11
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9904	5209.9896	5209.9888	5209.9880
10	5209.9908	5209.9901	5209.9893	5209.9885
20	5209.9916	5209.9911	5209.9903	5209.9897
30	5209.9932	5209.9925	5209.9921	5209.9914
40	5209.9937	5209.9931	5209.9922	5209.9917
Max. Deviation (MHz)	0.0096	0.0104	0.0112	0.0120
Max. Deviation (ppm)	1.84	2.00	2.15	2.30
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9920	5774.9917	5774.9913	5774.9903
110.00	5774.9916	5774.9914	5774.9907	5774.9902
93.50	5774.9906	5774.9899	5774.9890	5774.9885
Max. Deviation (MHz)	0.0094	0.0101	0.0110	0.0115
Max. Deviation (ppm)	1.63	1.75	1.90	1.99
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9885	5774.9880	5774.9875	5774.9871
10	5774.9899	5774.9890	5774.9885	5774.9881
20	5774.9916	5774.9909	5774.9901	5774.9891
30	5774.9932	5774.9922	5774.9913	5774.9910
40	5774.9949	5774.9945	5774.9936	5774.9928
Max. Deviation (MHz)	0.0115	0.0120	0.0125	0.0129
Max. Deviation (ppm)	1.99	2.08	2.16	2.23
Result	Pass			