



FCC Test Report

Equipment : C110 Access Point
Brand Name : Ruckus
Model No. : C110
FCC ID : S9GC110
Standard : 47 CFR FCC Part 15.407
Operating Band : 5150 MHz – 5250 MHz
5725 MHz – 5850 MHz
Applicant : Ruckus Wireless, Inc.
350 West Java Drive, Sunnyvale, California 94089 USA
Manufacturer : MAINTEK COMPUTER (SUZHOU) CO., LTD
Bldg. 6 NB, 233 Jin Feng Rd, Suzhou District Jiangsu
China
Function : ☐ Outdoor; ☒ Indoor; ☐ Fixed P2P
☐ Client

The product sample received on Sep. 26, 2016 and completely tested on Oct. 19, 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.





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Summary of Test Result

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



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: S9GC110

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	-	J23001	Printed Antenna	N/A	0	1
2	-	J23004	Printed Antenna	N/A	0	1

Note: The EUT has two antennas. (2TX/2RX)

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	0.986	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT20	0.99	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
VHT40	0.979	2.468m	1k
VHT80	0.954	1.186m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter		
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	Gary Chu	25°C / 57%	Oct. 15, 2016
Radiated	03CH01-CB	Welson Chen	22°C / 54%	Sep. 26, 2016~Oct. 19, 2016
AC Conduction	CO01-CB	Hank Yang	24°C / 55%	Oct. 11, 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	21
5.2G	11a	20	1	2	5200	M	24.5
5.2G	11a	20	1	2	5240	H	22
5.2G	VHT20	20	1,(M0)	2	5180	L	21
5.2G	VHT20	20	1,(M0)	2	5200	M	24.5
5.2G	VHT20	20	1,(M0)	2	5240	H	22
5.2G	VHT40	40	1,(M0)	2	5190	L	17
5.2G	VHT40	40	1,(M0)	2	5230	H	21
5.2G	VHT80	80	1,(M0)	2	5210	S	16.5
5.8G	11a	20	1	2	5745	L	24.5
5.8G	11a	20	1	2	5785	M	24.5
5.8G	11a	20	1	2	5825	H	24.5
5.8G	VHT20	20	1,(M0)	2	5745	L	24.5
5.8G	VHT20	20	1,(M0)	2	5785	M	24.5
5.8G	VHT20	20	1,(M0)	2	5825	H	24.5
5.8G	VHT40	40	1,(M0)	2	5755	L	24.5
5.8G	VHT40	40	1,(M0)	2	5795	H	24.5
5.8G	VHT80	80	1,(M0)	2	5775	S	20.5

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	CTX
1	WLAN 2.4GHz
2	WLAN 5GHz
For operating mode 1 is the worst case and it was record in this test report.	

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	CTX
1	WLAN 2.4GHz
2	WLAN 5GHz
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	WLAN 2.4GHz + WLAN 5GHz
Refer to Sporton Test Report No.: FA690805 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

Note: The EUT can only be used at Y axis position.

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories				
No.	Equipment Name	Brand Holder	Model No.	Rating
1	Adapter	Mass Power Electronic Limited	NBS24J120200D5	INPUT: 100-240Vac, 50/60Hz, 0.6A OUTPUT: 12Vdc, 2.0A
No.	Description			
2	Wall-mounted rack*1			
3	Plug*1			

2.5 Support Equipment

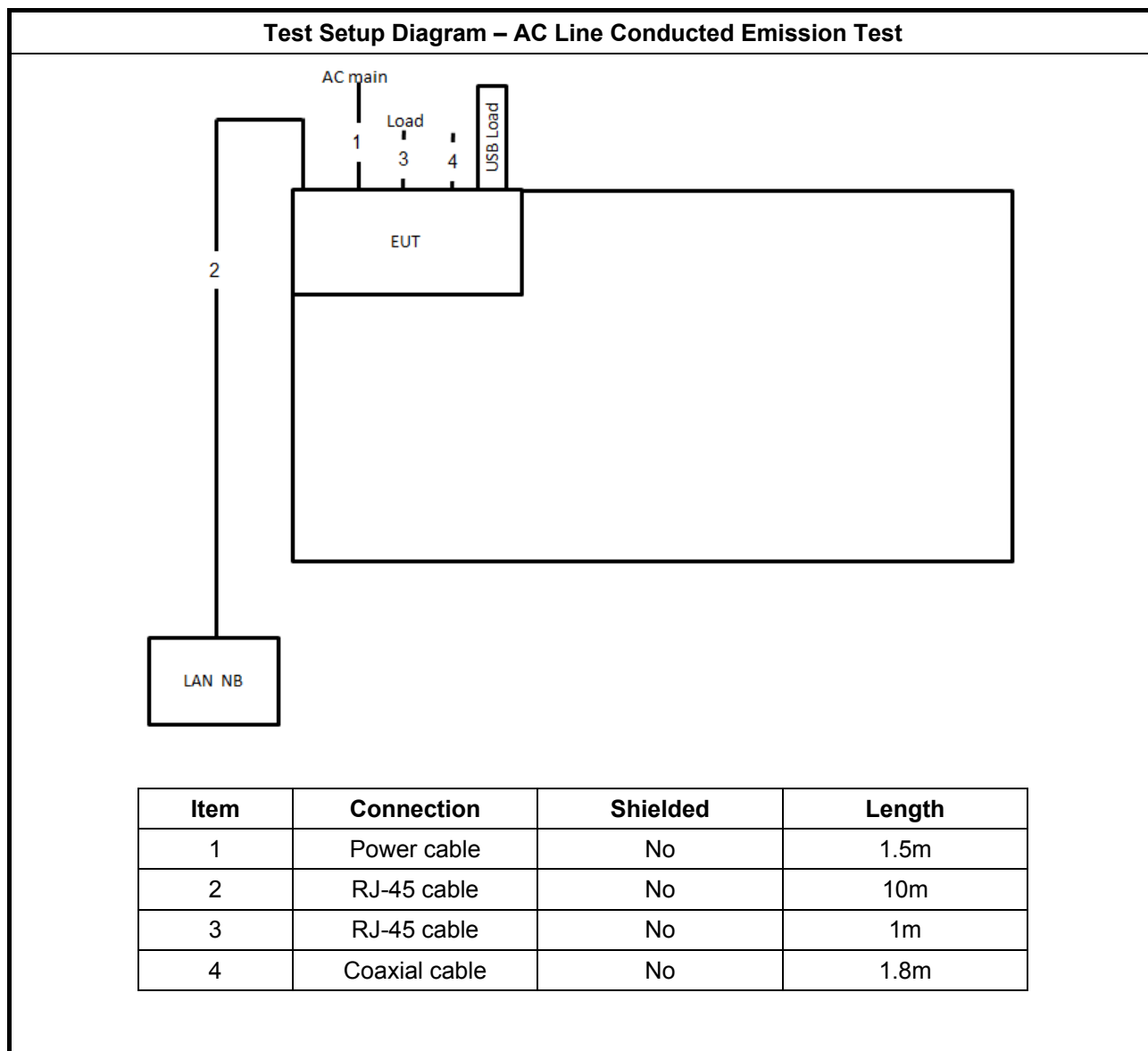
For Test Site No: CO01-CB

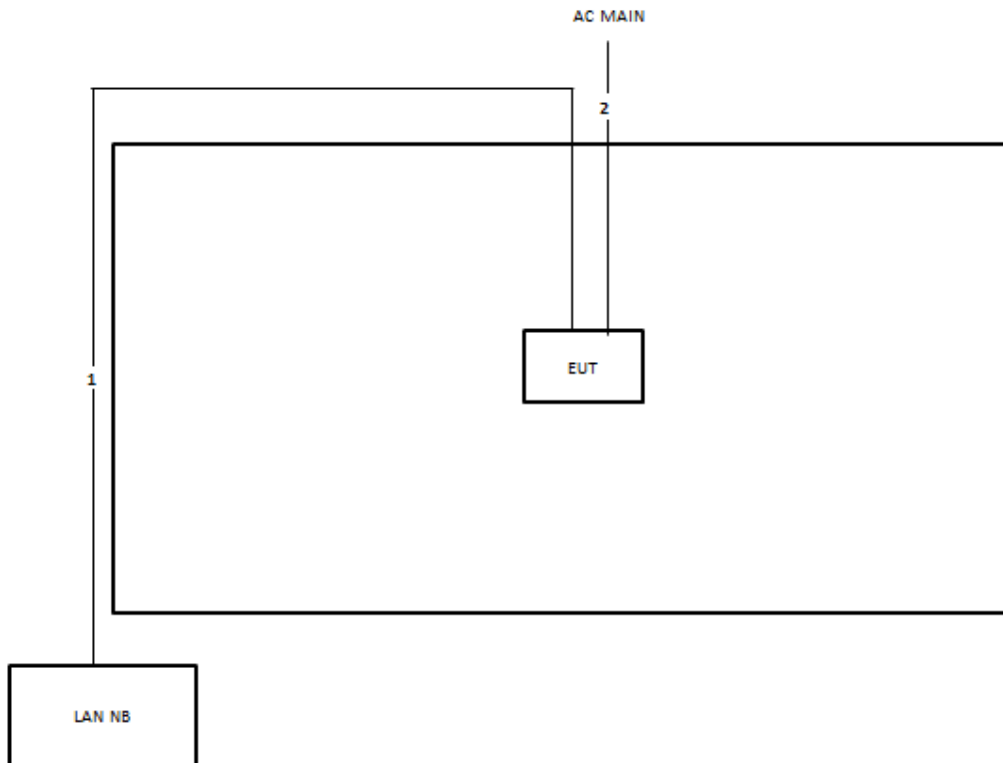
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E6430	DoC
2	Flash disk3.0	Transcend	639205 7755	DoC

For Test Site No: 03CH01-CB and TH01-CB

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

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test


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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

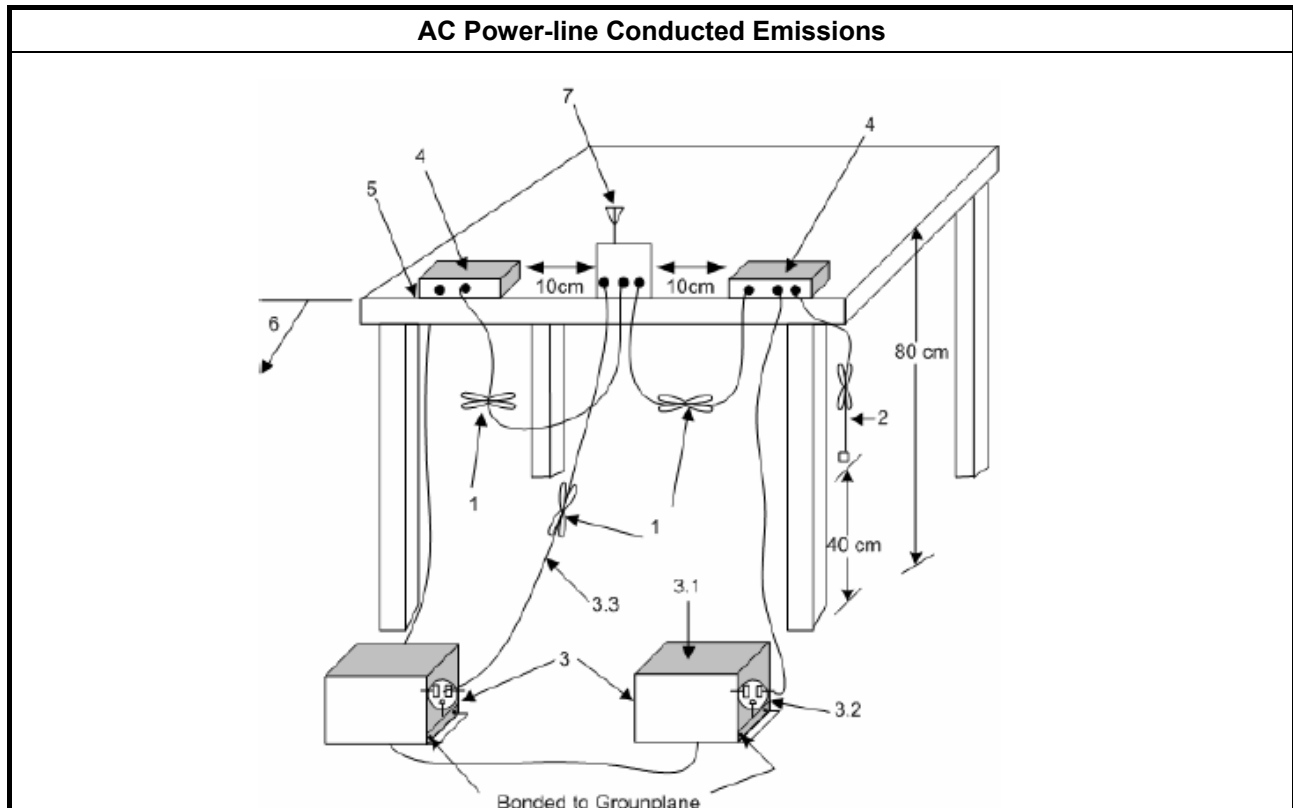
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ 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.

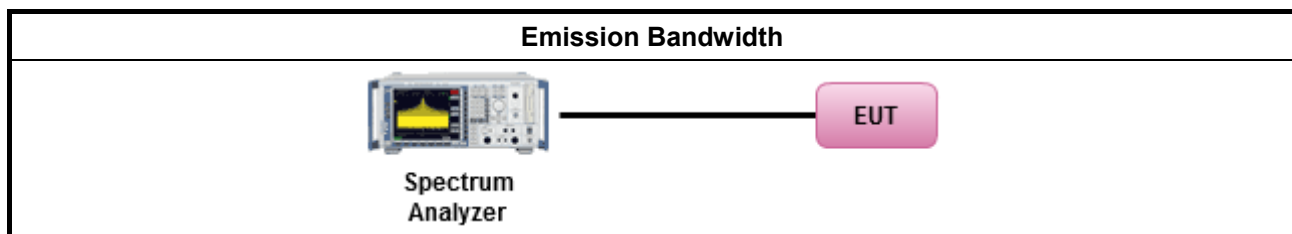
3.2.2 Measuring Instruments

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.	

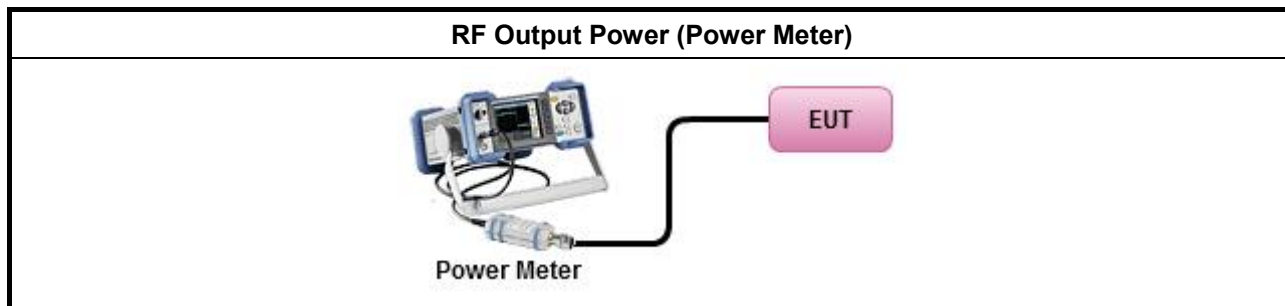
3.3.2 Measuring Instruments

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.	

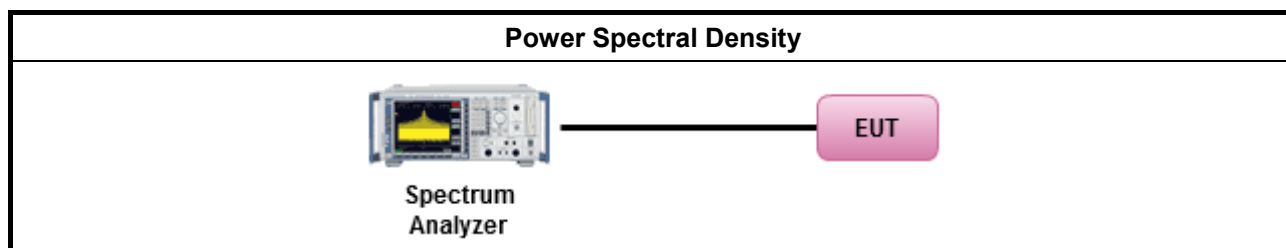
3.4.2 Measuring Instruments

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, F5) power spectral density can be measured using resolution bandwidths < 1 MHz provided that the results are integrated over 1 MHz bandwidth	
[duty cycle ≥ 98% or external video / power trigger]	
☒ 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).

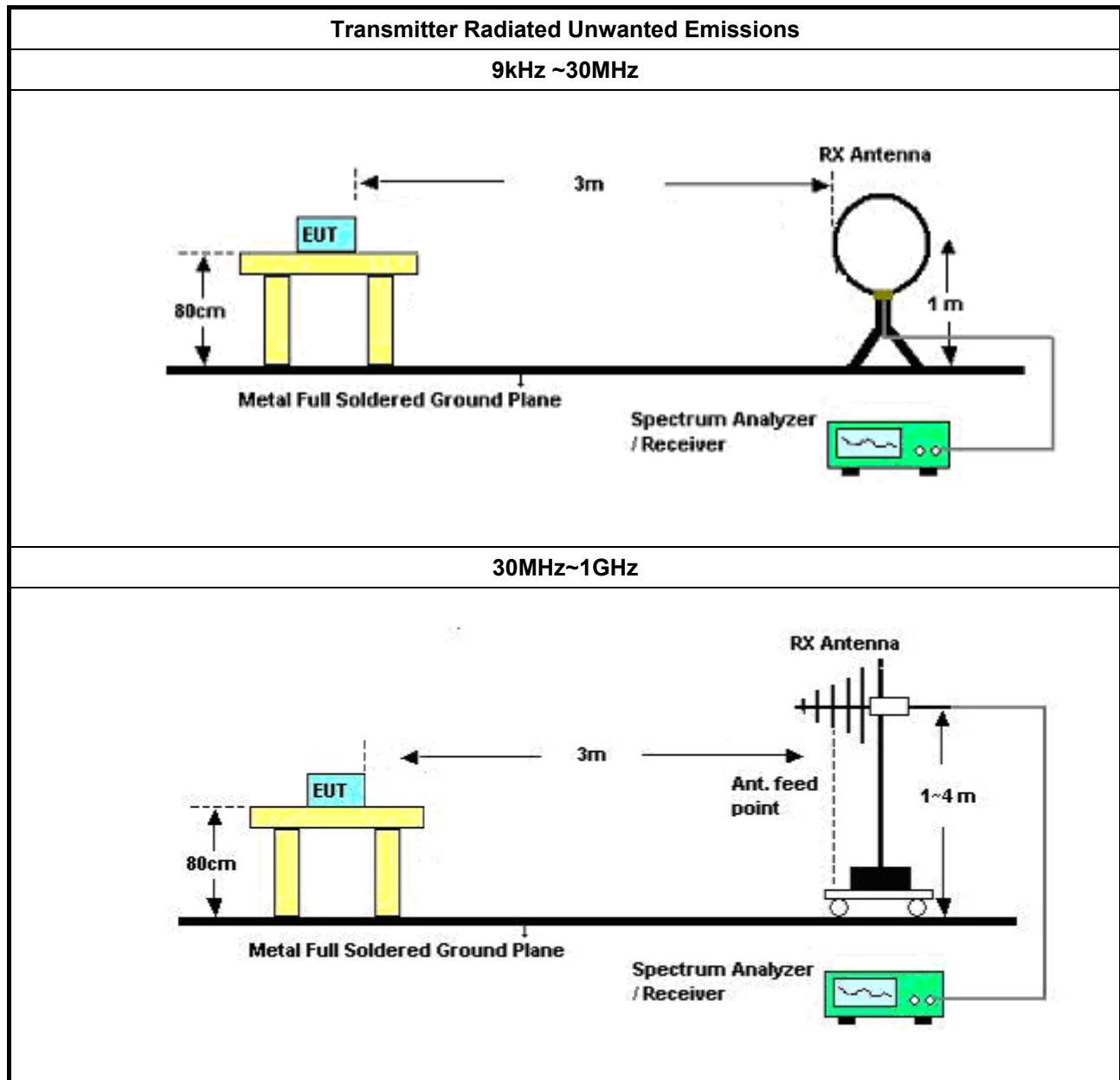
3.5.2 Measuring Instruments

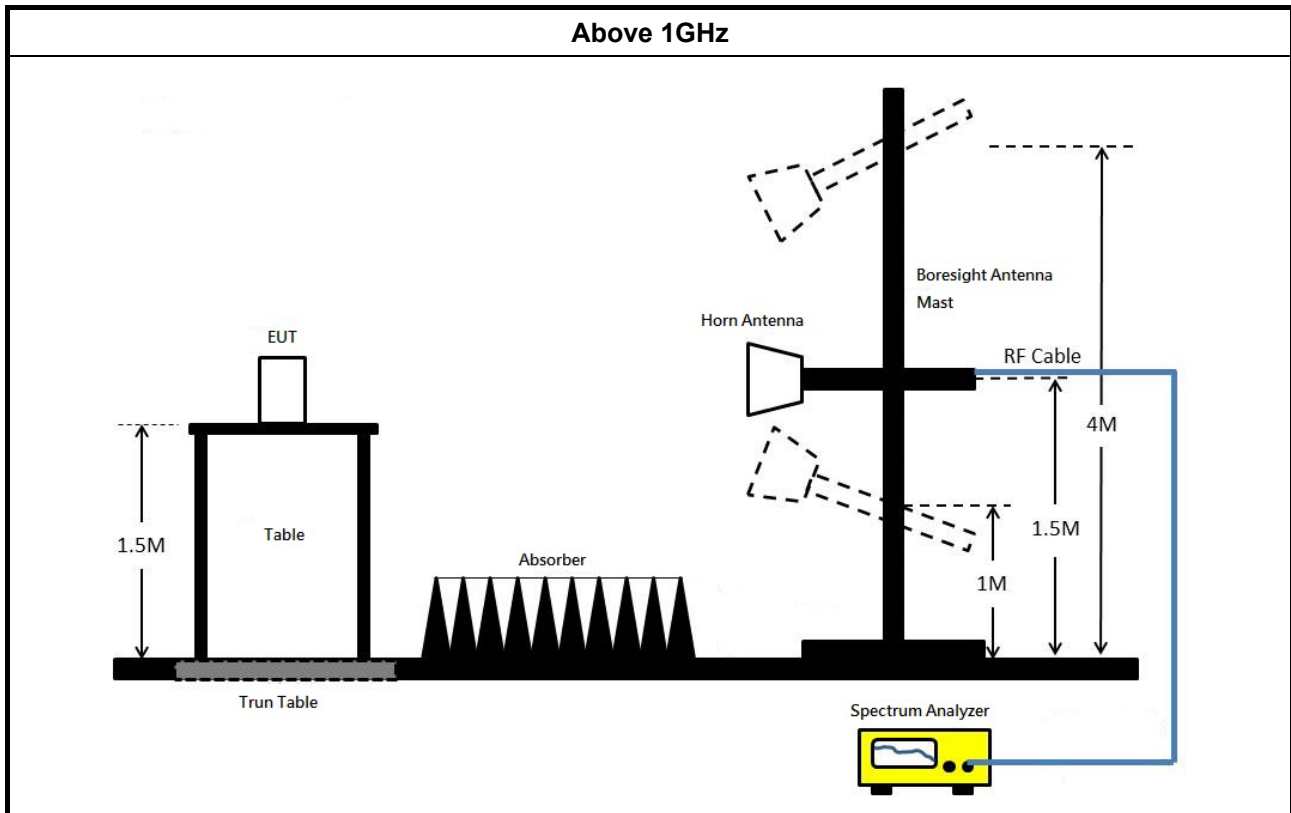
Refer a test equipment and calibration data table in this test report.

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.

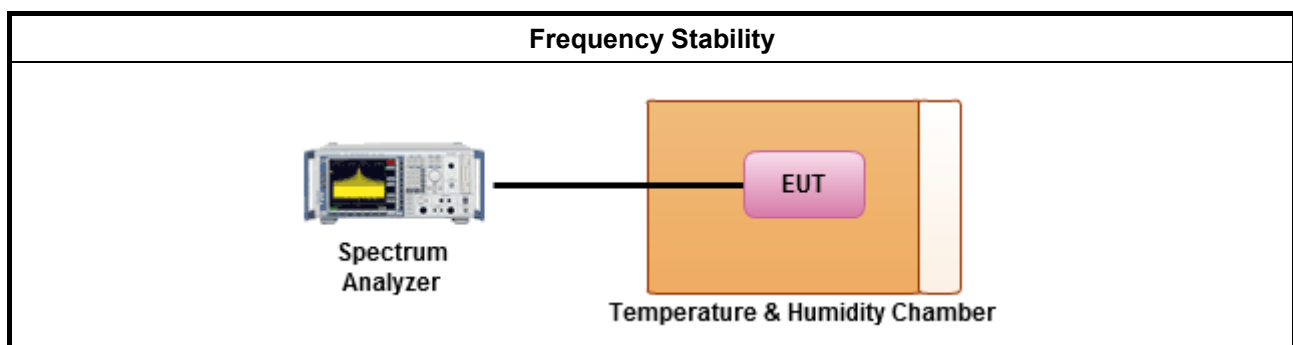
3.6.2 Measuring Instruments

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~50°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)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	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	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	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)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	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)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
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	CTX																																																																																																																																																				
Level (dBuV) Date: 2016-10-11 Time: 20:55:50 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>LISN Factor</th><th>Cable Loss</th><th>Pol/Phase</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.1500</td><td>43.06</td><td>-12.94</td><td>56.00</td><td>32.88</td><td>10.02</td><td>0.16</td><td>NEUTRAL</td><td>Average</td></tr><tr><td>2</td><td>0.1500</td><td>57.79</td><td>-8.21</td><td>66.00</td><td>47.61</td><td>10.02</td><td>0.16</td><td>NEUTRAL</td><td>QP</td></tr><tr><td>3</td><td>0.1712</td><td>40.35</td><td>-14.55</td><td>54.90</td><td>30.16</td><td>10.02</td><td>0.17</td><td>NEUTRAL</td><td>Average</td></tr><tr><td>4</td><td>0.1712</td><td>49.72</td><td>-15.18</td><td>64.90</td><td>39.53</td><td>10.02</td><td>0.17</td><td>NEUTRAL</td><td>QP</td></tr><tr><td>5</td><td>0.5074</td><td>31.79</td><td>-14.21</td><td>46.00</td><td>21.67</td><td>9.92</td><td>0.20</td><td>NEUTRAL</td><td>Average</td></tr><tr><td>6</td><td>0.5074</td><td>41.01</td><td>-14.99</td><td>56.00</td><td>30.89</td><td>9.92</td><td>0.20</td><td>NEUTRAL</td><td>QP</td></tr><tr><td>7</td><td>1.5518</td><td>28.07</td><td>-17.93</td><td>46.00</td><td>17.81</td><td>9.95</td><td>0.31</td><td>NEUTRAL</td><td>Average</td></tr><tr><td>8</td><td>1.5518</td><td>36.61</td><td>-19.39</td><td>56.00</td><td>26.35</td><td>9.95</td><td>0.31</td><td>NEUTRAL</td><td>QP</td></tr><tr><td>9</td><td>4.3146</td><td>24.75</td><td>-21.25</td><td>46.00</td><td>14.66</td><td>10.00</td><td>0.09</td><td>NEUTRAL</td><td>Average</td></tr><tr><td>10</td><td>4.3146</td><td>33.10</td><td>-22.90</td><td>56.00</td><td>23.01</td><td>10.00</td><td>0.09</td><td>NEUTRAL</td><td>QP</td></tr><tr><td>11</td><td>8.5463</td><td>25.57</td><td>-24.43</td><td>50.00</td><td>15.32</td><td>10.11</td><td>0.14</td><td>NEUTRAL</td><td>Average</td></tr><tr><td>12</td><td>8.5463</td><td>32.90</td><td>-27.10</td><td>60.00</td><td>22.65</td><td>10.11</td><td>0.14</td><td>NEUTRAL</td><td>QP</td></tr></table>											Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark		MHz	dBuV	dB	dBuV	dBuV	dB	dB			1	0.1500	43.06	-12.94	56.00	32.88	10.02	0.16	NEUTRAL	Average	2	0.1500	57.79	-8.21	66.00	47.61	10.02	0.16	NEUTRAL	QP	3	0.1712	40.35	-14.55	54.90	30.16	10.02	0.17	NEUTRAL	Average	4	0.1712	49.72	-15.18	64.90	39.53	10.02	0.17	NEUTRAL	QP	5	0.5074	31.79	-14.21	46.00	21.67	9.92	0.20	NEUTRAL	Average	6	0.5074	41.01	-14.99	56.00	30.89	9.92	0.20	NEUTRAL	QP	7	1.5518	28.07	-17.93	46.00	17.81	9.95	0.31	NEUTRAL	Average	8	1.5518	36.61	-19.39	56.00	26.35	9.95	0.31	NEUTRAL	QP	9	4.3146	24.75	-21.25	46.00	14.66	10.00	0.09	NEUTRAL	Average	10	4.3146	33.10	-22.90	56.00	23.01	10.00	0.09	NEUTRAL	QP	11	8.5463	25.57	-24.43	50.00	15.32	10.11	0.14	NEUTRAL	Average	12	8.5463	32.90	-27.10	60.00	22.65	10.11	0.14	NEUTRAL	QP
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark																																																																																																																																												
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10	4.3146	33.10	-22.90	56.00	23.01	10.00	0.09	NEUTRAL	QP																																																																																																																																												
11	8.5463	25.57	-24.43	50.00	15.32	10.11	0.14	NEUTRAL	Average																																																																																																																																												
12	8.5463	32.90	-27.10	60.00	22.65	10.11	0.14	NEUTRAL	QP																																																																																																																																												
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																																																																					

AC Power-line Conducted Emissions Result																																																																																																																																																					
Operating Mode	1			Power Phase			Line																																																																																																																																														
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Level (dBuV) Date: 2016-10-11 Time: 20:53:49 <table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>Read Level</th><th>LISN Factor</th><th>Cable Loss</th><th>Pol/Phase</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dB</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>dB</th><th></th><th></th></tr><tr><td>1</td><td>0.1500</td><td>42.63</td><td>-13.37</td><td>56.00</td><td>32.45</td><td>10.02</td><td>0.16</td><td>LINE</td><td>Average</td></tr><tr><td>2</td><td>0.1500</td><td>58.62</td><td>-7.38</td><td>66.00</td><td>48.44</td><td>10.02</td><td>0.16</td><td>LINE</td><td>QP</td></tr><tr><td>3</td><td>0.1590</td><td>43.03</td><td>-12.49</td><td>55.52</td><td>32.84</td><td>10.02</td><td>0.17</td><td>LINE</td><td>Average</td></tr><tr><td>4</td><td>0.1590</td><td>55.43</td><td>-10.09</td><td>65.52</td><td>45.24</td><td>10.02</td><td>0.17</td><td>LINE</td><td>QP</td></tr><tr><td>5</td><td>0.1844</td><td>38.19</td><td>-16.09</td><td>54.28</td><td>28.09</td><td>9.92</td><td>0.18</td><td>LINE</td><td>Average</td></tr><tr><td>6</td><td>0.1844</td><td>51.42</td><td>-12.86</td><td>64.28</td><td>41.32</td><td>9.92</td><td>0.18</td><td>LINE</td><td>QP</td></tr><tr><td>7</td><td>0.5074</td><td>32.80</td><td>-13.20</td><td>46.00</td><td>22.68</td><td>9.92</td><td>0.20</td><td>LINE</td><td>Average</td></tr><tr><td>8</td><td>0.5074</td><td>42.82</td><td>-13.18</td><td>56.00</td><td>32.70</td><td>9.92</td><td>0.20</td><td>LINE</td><td>QP</td></tr><tr><td>9</td><td>2.5535</td><td>26.25</td><td>-19.75</td><td>46.00</td><td>16.21</td><td>9.97</td><td>0.07</td><td>LINE</td><td>Average</td></tr><tr><td>10</td><td>2.5535</td><td>34.15</td><td>-21.85</td><td>56.00</td><td>24.11</td><td>9.97</td><td>0.07</td><td>LINE</td><td>QP</td></tr><tr><td>11</td><td>15.3070</td><td>29.10</td><td>-20.90</td><td>50.00</td><td>18.65</td><td>10.23</td><td>0.22</td><td>LINE</td><td>Average</td></tr><tr><td>12</td><td>15.3070</td><td>36.01</td><td>-23.99</td><td>60.00</td><td>25.56</td><td>10.23</td><td>0.22</td><td>LINE</td><td>QP</td></tr></table>											Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark		MHz	dBuV	dB	dBuV	dBuV	dB	dB			1	0.1500	42.63	-13.37	56.00	32.45	10.02	0.16	LINE	Average	2	0.1500	58.62	-7.38	66.00	48.44	10.02	0.16	LINE	QP	3	0.1590	43.03	-12.49	55.52	32.84	10.02	0.17	LINE	Average	4	0.1590	55.43	-10.09	65.52	45.24	10.02	0.17	LINE	QP	5	0.1844	38.19	-16.09	54.28	28.09	9.92	0.18	LINE	Average	6	0.1844	51.42	-12.86	64.28	41.32	9.92	0.18	LINE	QP	7	0.5074	32.80	-13.20	46.00	22.68	9.92	0.20	LINE	Average	8	0.5074	42.82	-13.18	56.00	32.70	9.92	0.20	LINE	QP	9	2.5535	26.25	-19.75	46.00	16.21	9.97	0.07	LINE	Average	10	2.5535	34.15	-21.85	56.00	24.11	9.97	0.07	LINE	QP	11	15.3070	29.10	-20.90	50.00	18.65	10.23	0.22	LINE	Average	12	15.3070	36.01	-23.99	60.00	25.56	10.23	0.22	LINE	QP
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark																																																																																																																																												
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7	0.5074	32.80	-13.20	46.00	22.68	9.92	0.20	LINE	Average																																																																																																																																												
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10	2.5535	34.15	-21.85	56.00	24.11	9.97	0.07	LINE	QP																																																																																																																																												
11	15.3070	29.10	-20.90	50.00	18.65	10.23	0.22	LINE	Average																																																																																																																																												
12	15.3070	36.01	-23.99	60.00	25.56	10.23	0.22	LINE	QP																																																																																																																																												
Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit. Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)																																																																																																																																																					



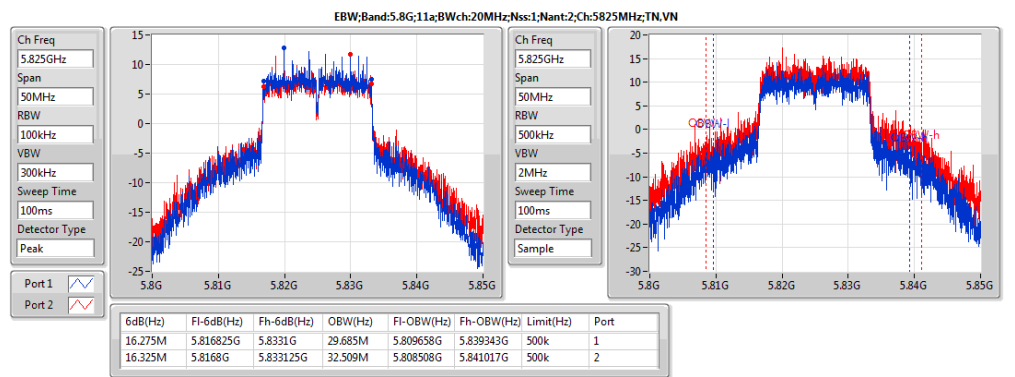
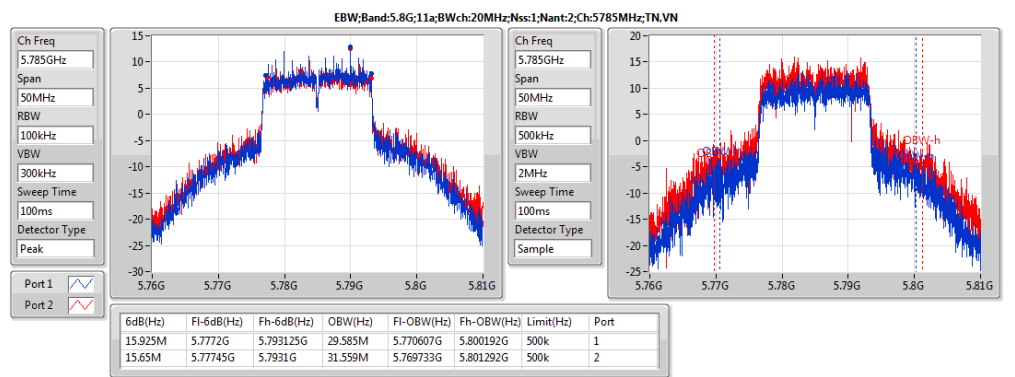
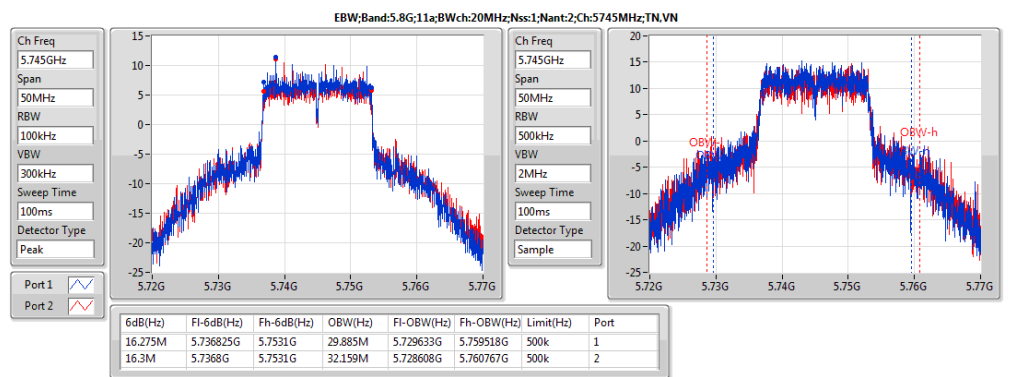
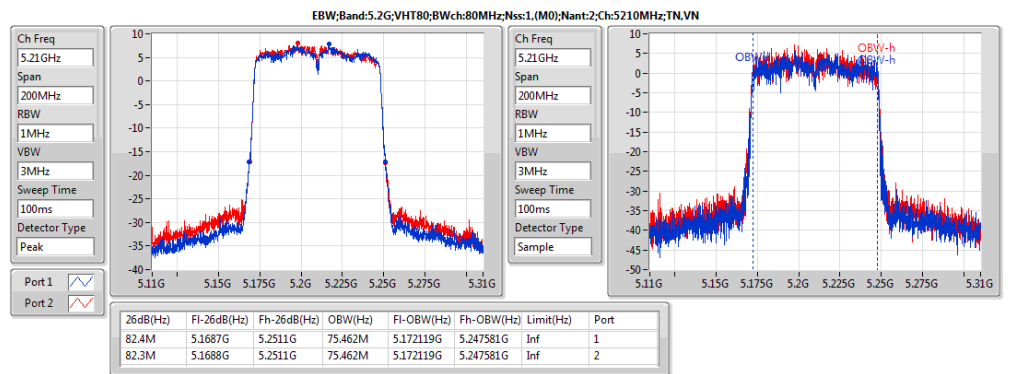
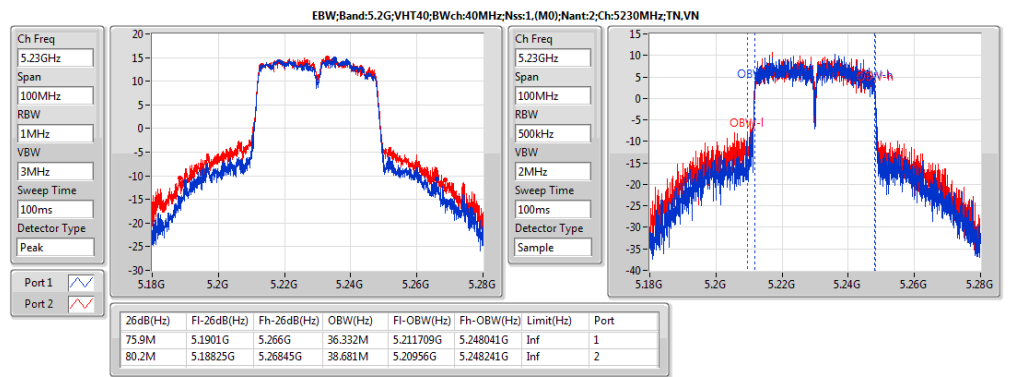
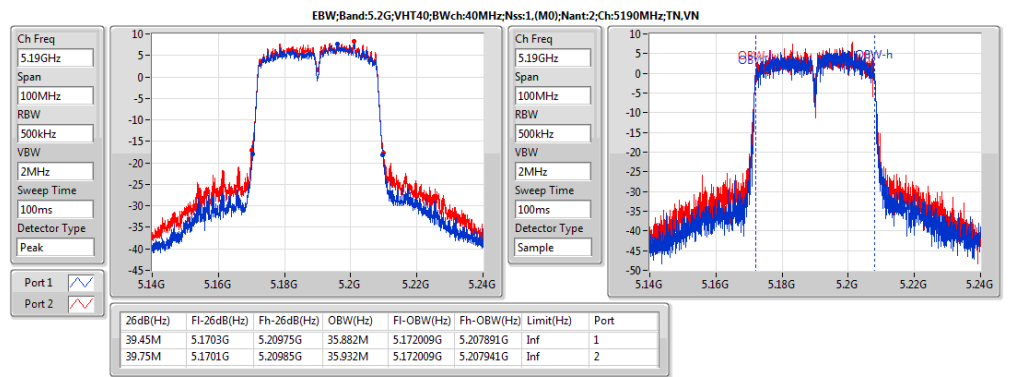
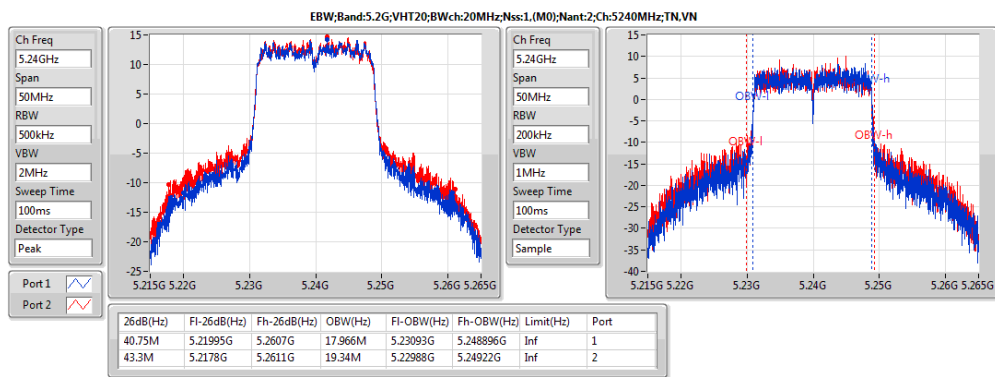
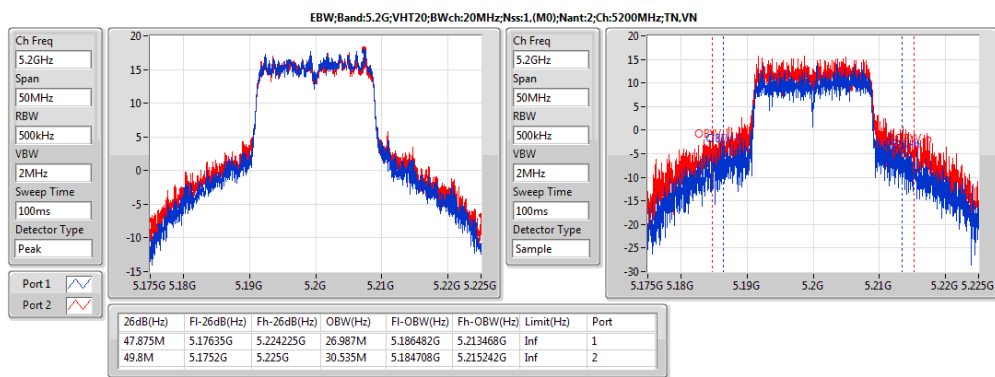
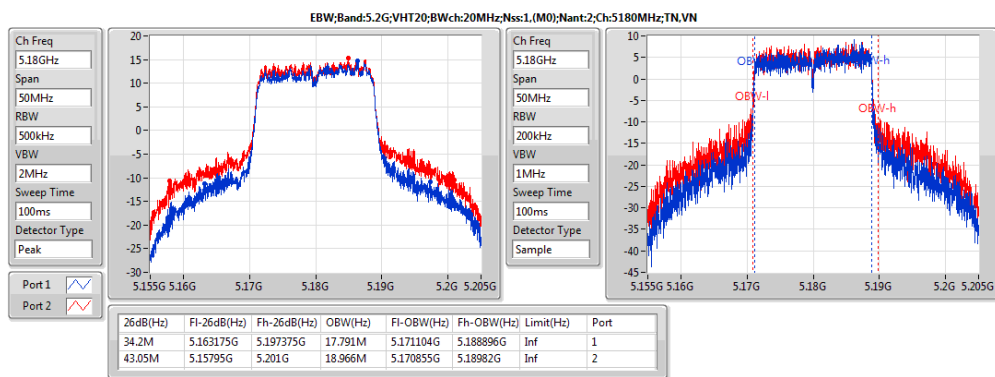
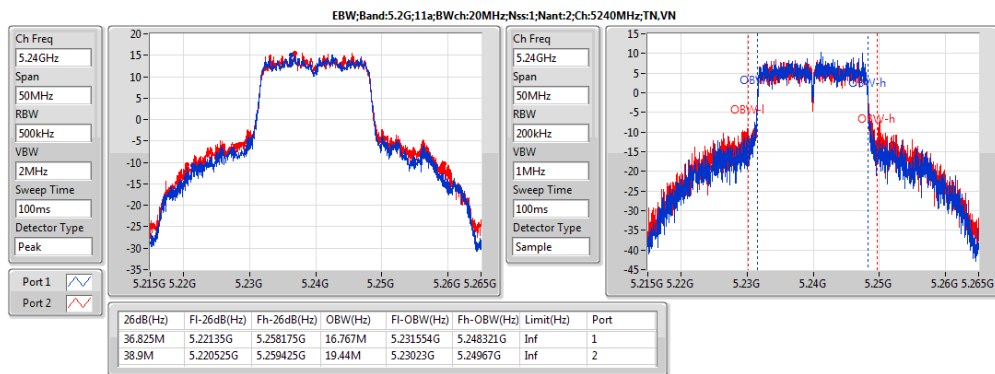
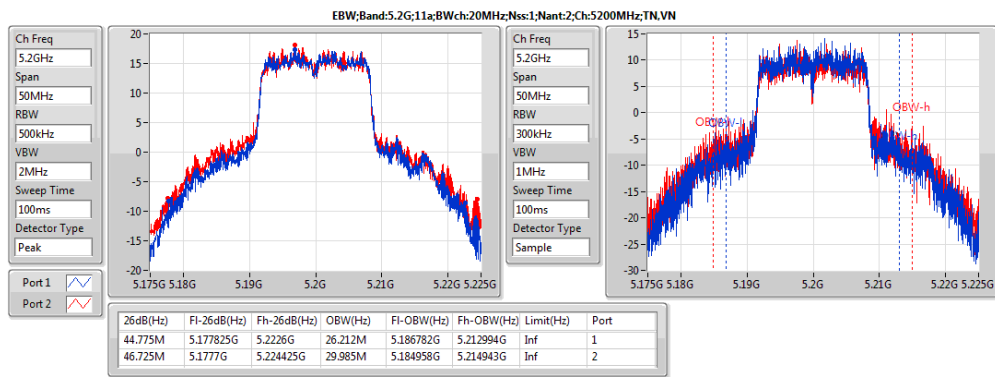
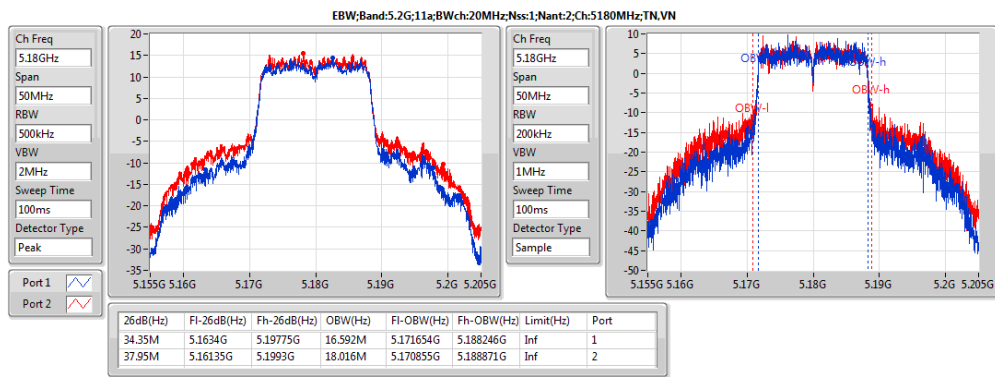
Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
5.2G;11a;Nss1;Ntx2	46.725M	29.985M	30M0D1D	34.35M	16.592M
5.2G;VHT20;Nss1,(M0);Ntx2	49.8M	30.535M	30M5D1D	34.2M	17.791M
5.2G;VHT40;Nss1,(M0);Ntx2	80.2M	38.681M	38M7D1D	39.45M	35.882M
5.2G;VHT80;Nss1,(M0);Ntx2	82.4M	75.462M	75M5D1D	82.3M	75.462M
5.8G;11a;Nss1;Ntx2	16.325M	32.509M	32M5D1D	15.65M	29.585M
5.8G;VHT20;Nss1,(M0);Ntx2	17.675M	34.583M	34M6D1D	16.925M	29.935M
5.8G;VHT40;Nss1,(M0);Ntx2	35.3M	67.266M	67M3D1D	33.15M	55.072M
5.8G;VHT80;Nss1,(M0);Ntx2	75.7M	78.261M	78M3D1D	71.4M	76.662M



Result

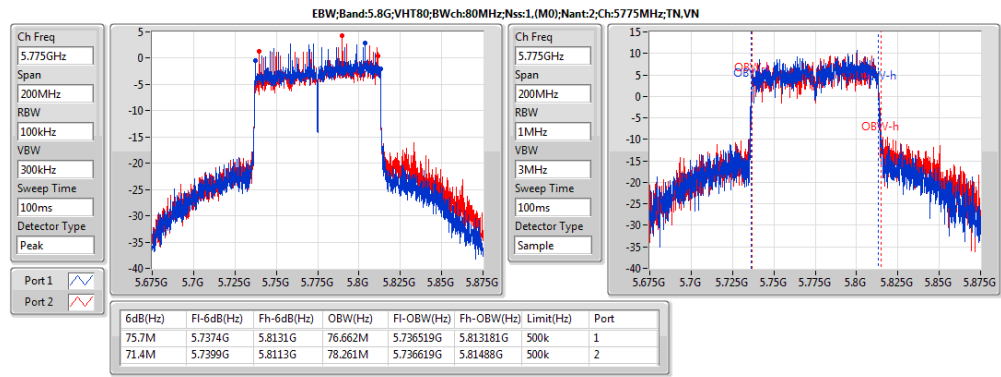
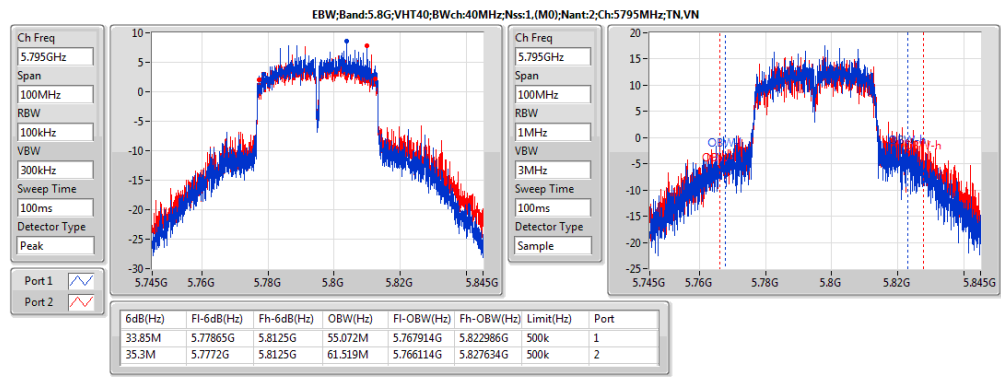
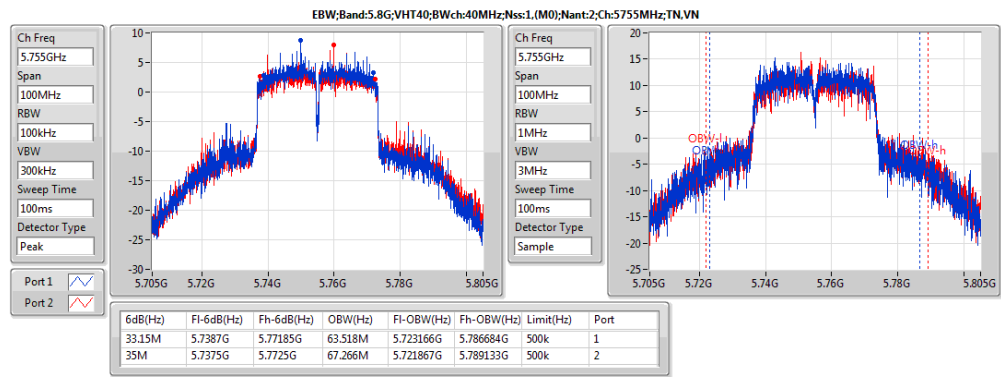
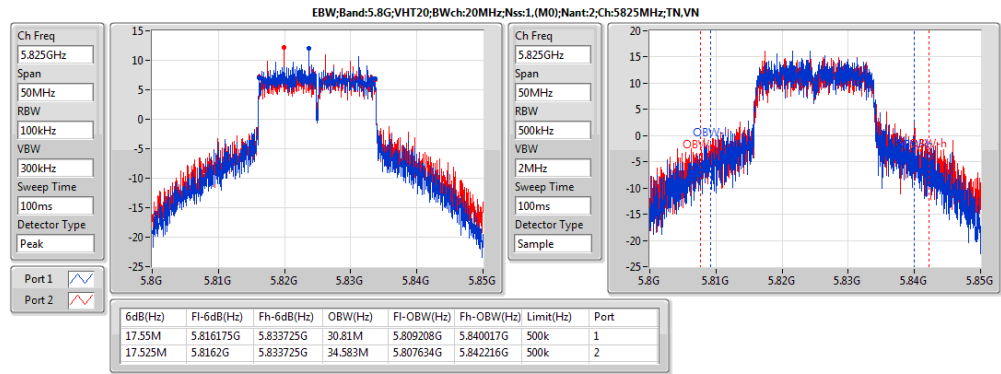
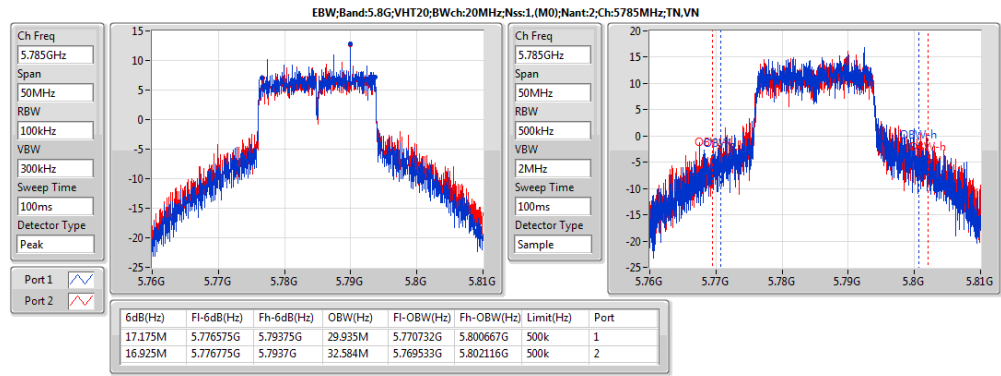
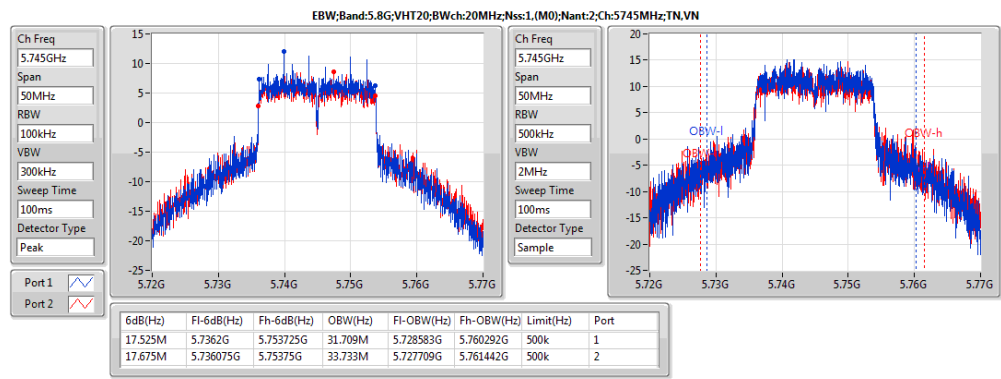
Mode	Result	Limit (Hz)	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)
5.2G;11a;Nss1;Ntx2;5180	Pass	Inf	34.35M	16.592M	37.95M	18.016M
5.2G;11a;Nss1;Ntx2;5200	Pass	Inf	44.775M	26.212M	46.725M	29.985M
5.2G;11a;Nss1;Ntx2;5240	Pass	Inf	36.825M	16.767M	38.9M	19.44M
5.2G;VHT20;Nss1,(M0);Ntx2;5180	Pass	Inf	34.2M	17.791M	43.05M	18.966M
5.2G;VHT20;Nss1,(M0);Ntx2;5200	Pass	Inf	47.875M	26.987M	49.8M	30.535M
5.2G;VHT20;Nss1,(M0);Ntx2;5240	Pass	Inf	40.75M	17.966M	43.3M	19.34M
5.2G;VHT40;Nss1,(M0);Ntx2;5190	Pass	Inf	39.45M	35.882M	39.75M	35.932M
5.2G;VHT40;Nss1,(M0);Ntx2;5230	Pass	Inf	75.9M	36.332M	80.2M	38.681M
5.2G;VHT80;Nss1,(M0);Ntx2;5210	Pass	Inf	82.4M	75.462M	82.3M	75.462M
5.8G;11a;Nss1;Ntx2;5745	Pass	500k	16.275M	29.885M	16.3M	32.159M
5.8G;11a;Nss1;Ntx2;5785	Pass	500k	15.925M	29.585M	15.65M	31.559M
5.8G;11a;Nss1;Ntx2;5825	Pass	500k	16.275M	29.685M	16.325M	32.509M
5.8G;VHT20;Nss1,(M0);Ntx2;5745	Pass	500k	17.525M	31.709M	17.675M	33.733M
5.8G;VHT20;Nss1,(M0);Ntx2;5785	Pass	500k	17.175M	29.935M	16.925M	32.584M
5.8G;VHT20;Nss1,(M0);Ntx2;5825	Pass	500k	17.55M	30.81M	17.525M	34.583M
5.8G;VHT40;Nss1,(M0);Ntx2;5755	Pass	500k	33.15M	63.518M	35M	67.266M
5.8G;VHT40;Nss1,(M0);Ntx2;5795	Pass	500k	33.85M	55.072M	35.3M	61.519M
5.8G;VHT80;Nss1,(M0);Ntx2;5775	Pass	500k	75.7M	76.662M	71.4M	78.261M





EBW Result

Appendix B





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
5.2G;11a;Nss1;Ntx2	26.12	0.40926	27.12	0.51523
5.2G;VHT20;Nss1,(M0);Ntx2	26.19	0.41591	27.19	0.5236
5.2G;VHT40;Nss1,(M0);Ntx2	24.30	0.26915	25.30	0.33884
5.2G;VHT80;Nss1,(M0);Ntx2	19.08	0.08091	20.08	0.10186
5.8G;11a;Nss1;Ntx2	26.48	0.44463	27.48	0.55976
5.8G;VHT20;Nss1,(M0);Ntx2	26.47	0.44361	27.47	0.55847
5.8G;VHT40;Nss1,(M0);Ntx2	26.41	0.43752	27.41	0.55081
5.8G;VHT80;Nss1,(M0);Ntx2	23.42	0.21979	24.42	0.27669



Result

Mode	Result	DG (dBi)	Sum (dBm)	Sum Lim. (dBm)	EIRP (dBm)	EIRP Lim. (dBm)	P1 (dBm)	P2 (dBm)
5.2G;11a;Nss1;Ntx2;5180	Pass	1.00	23.30	30.00	24.30	36.00	20.11	20.46
5.2G;11a;Nss1;Ntx2;5200	Pass	1.00	26.12	30.00	27.12	36.00	23.14	23.07
5.2G;11a;Nss1;Ntx2;5240	Pass	1.00	24.66	30.00	25.66	36.00	21.76	21.54
5.2G;VHT20;Nss1,(M0);Ntx2;5180	Pass	1.00	23.31	30.00	24.31	36.00	20.06	20.53
5.2G;VHT20;Nss1,(M0);Ntx2;5200	Pass	1.00	26.19	30.00	27.19	36.00	23.19	23.16
5.2G;VHT20;Nss1,(M0);Ntx2;5240	Pass	1.00	24.73	30.00	25.73	36.00	21.76	21.67
5.2G;VHT40;Nss1,(M0);Ntx2;5190	Pass	1.00	19.75	30.00	20.75	36.00	16.77	16.71
5.2G;VHT40;Nss1,(M0);Ntx2;5230	Pass	1.00	24.30	30.00	25.30	36.00	21.42	21.16
5.2G;VHT80;Nss1,(M0);Ntx2;5210	Pass	1.00	19.08	30.00	20.08	36.00	16.02	16.12
5.8G;11a;Nss1;Ntx2;5745	Pass	1.00	26.48	30.00	27.48	36.00	23.66	23.28
5.8G;11a;Nss1;Ntx2;5785	Pass	1.00	26.39	30.00	27.39	36.00	23.52	23.23
5.8G;11a;Nss1;Ntx2;5825	Pass	1.00	26.39	30.00	27.39	36.00	23.41	23.35
5.8G;VHT20;Nss1,(M0);Ntx2;5745	Pass	1.00	26.47	30.00	27.47	36.00	23.66	23.24
5.8G;VHT20;Nss1,(M0);Ntx2;5785	Pass	1.00	26.33	30.00	27.33	36.00	23.35	23.28
5.8G;VHT20;Nss1,(M0);Ntx2;5825	Pass	1.00	26.33	30.00	27.33	36.00	23.38	23.25
5.8G;VHT40;Nss1,(M0);Ntx2;5755	Pass	1.00	26.41	30.00	27.41	36.00	23.63	23.16
5.8G;VHT40;Nss1,(M0);Ntx2;5795	Pass	1.00	26.26	30.00	27.26	36.00	23.21	23.29
5.8G;VHT80;Nss1,(M0);Ntx2;5775	Pass	1.00	23.42	30.00	24.42	36.00	20.57	20.25



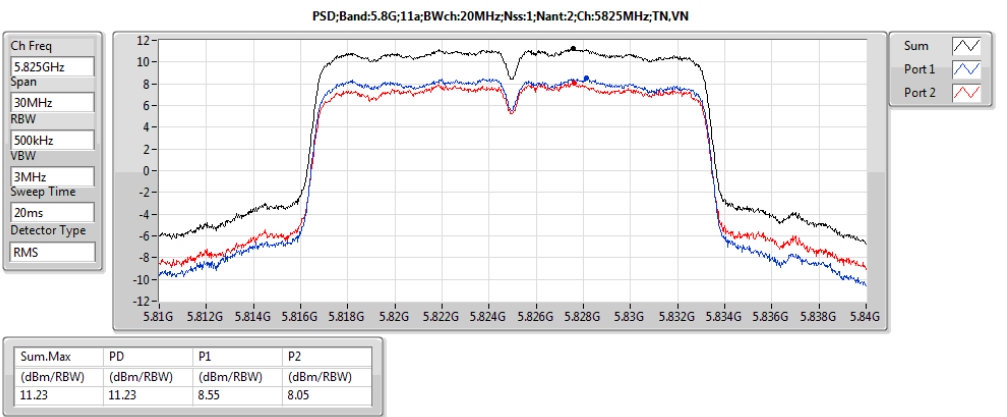
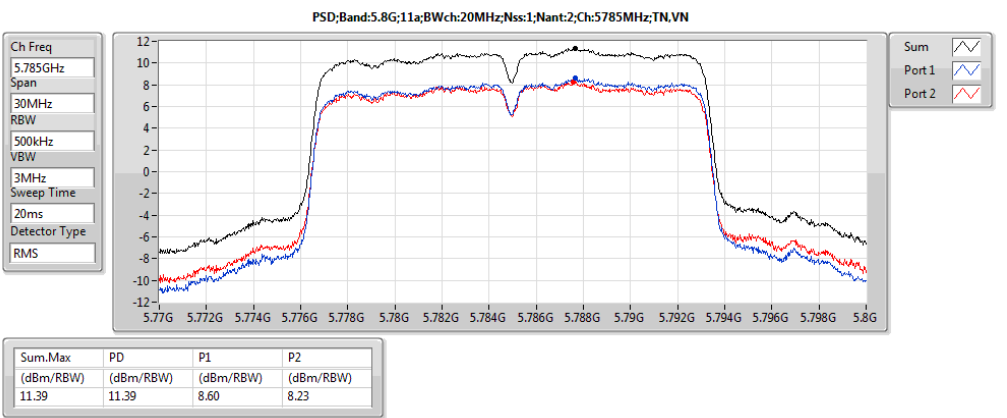
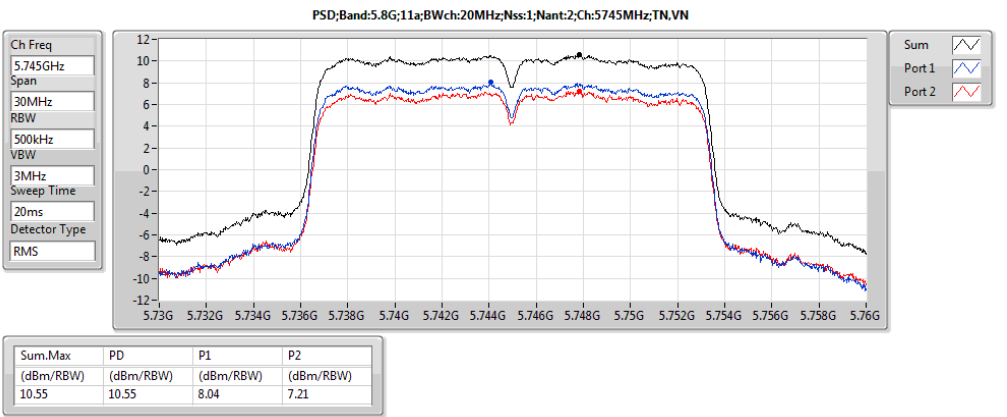
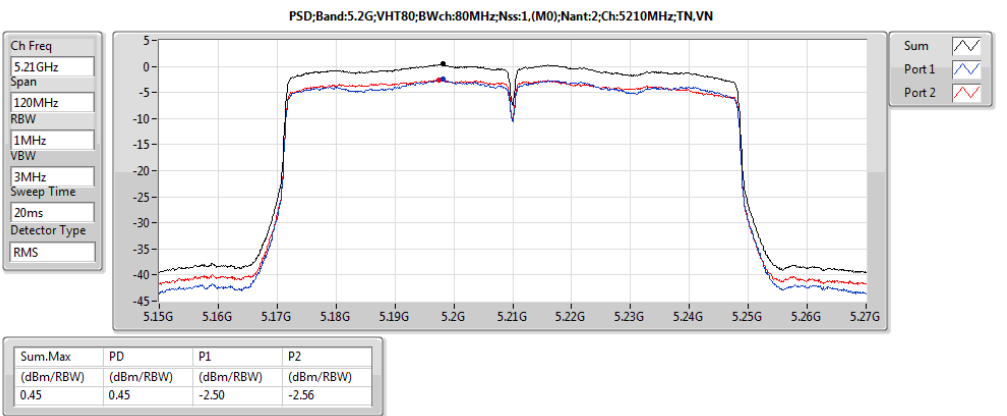
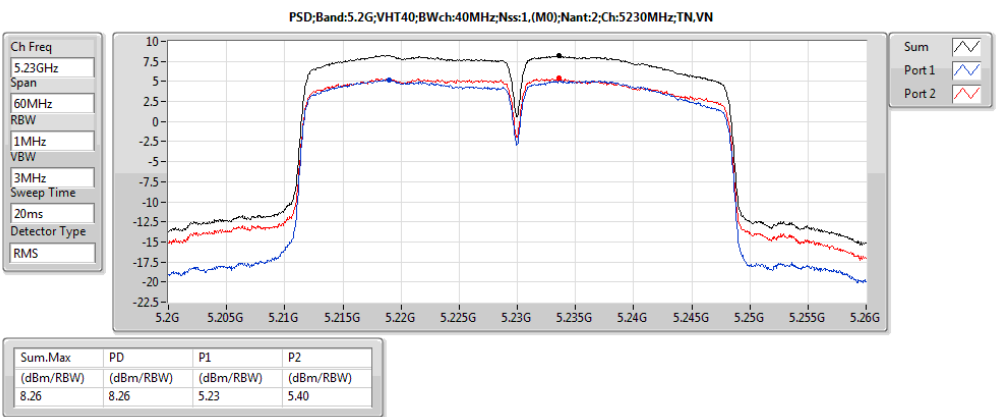
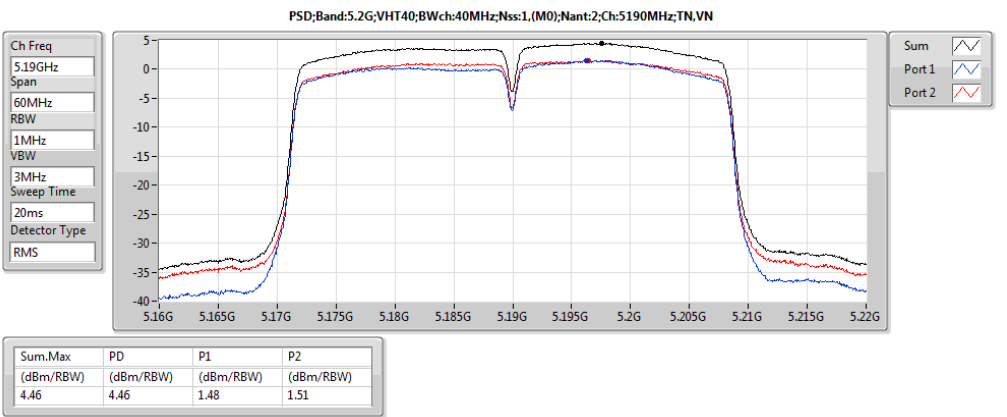
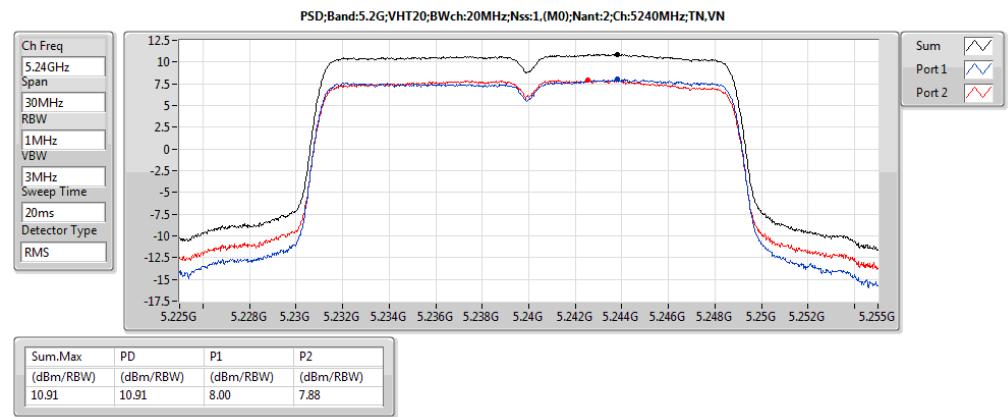
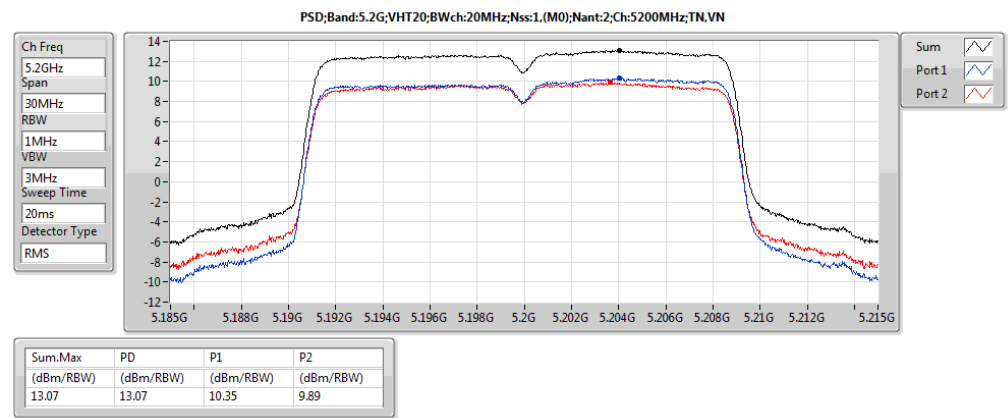
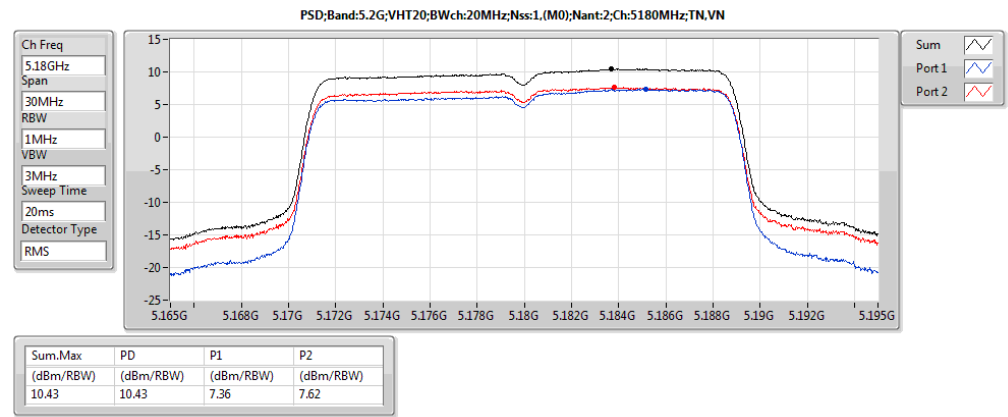
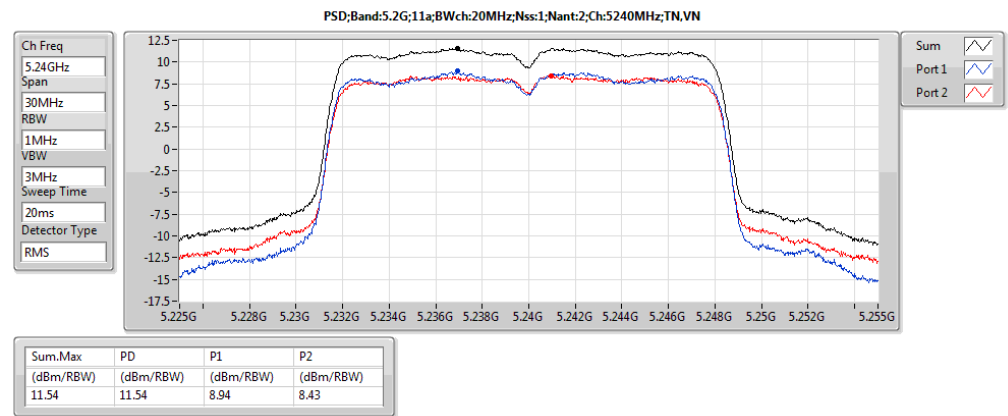
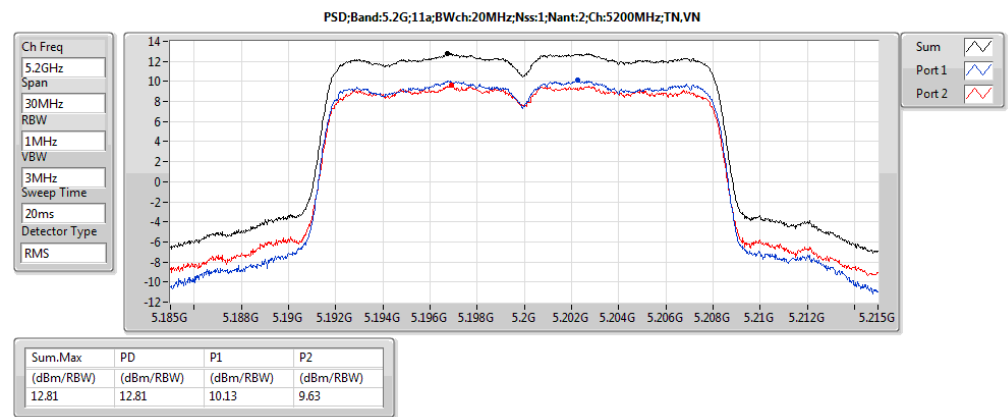
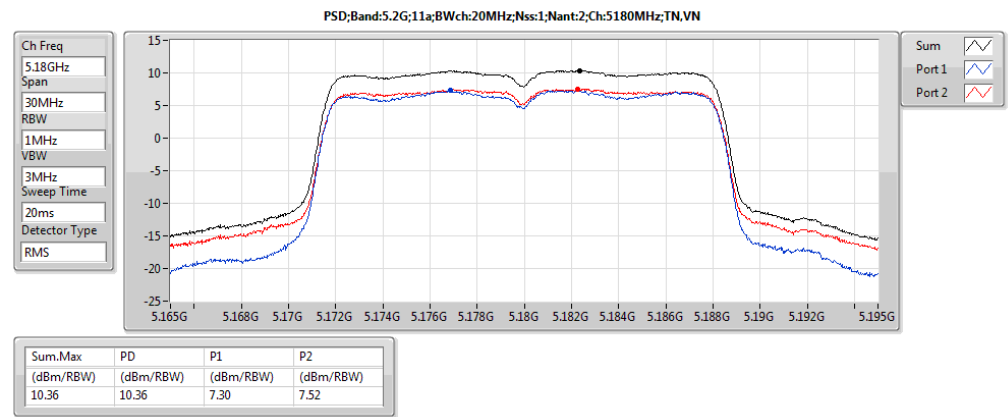
Summary

Mode	PD (dBm/RBW)	EIRP.PD (dBm/RBW)
5.2G;11a;Nss1;Ntx2	12.81	16.82
5.2G;VHT20;Nss1,(M0);Ntx2	13.07	17.08
5.2G;VHT40;Nss1,(M0);Ntx2	8.26	12.27
5.2G;VHT80;Nss1,(M0);Ntx2	0.45	4.46
5.8G;11a;Nss1;Ntx2	11.39	15.40
5.8G;VHT20;Nss1,(M0);Ntx2	10.79	14.80
5.8G;VHT40;Nss1,(M0);Ntx2	8.32	12.33
5.8G;VHT80;Nss1,(M0);Ntx2	2.46	6.47



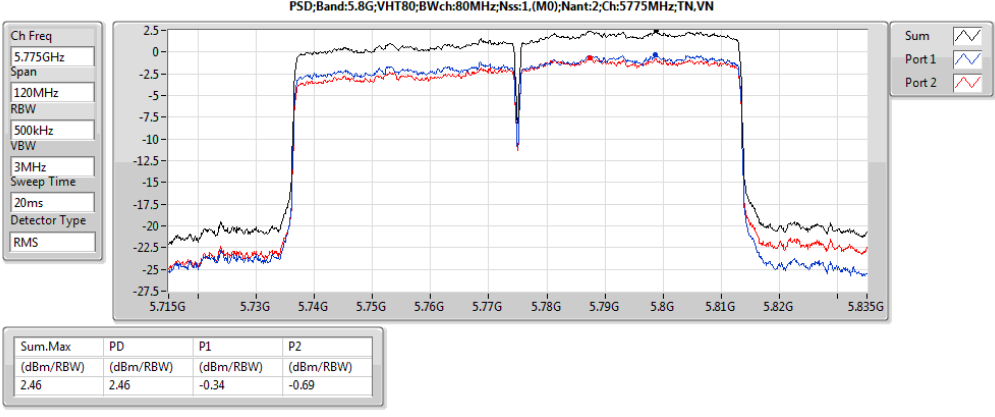
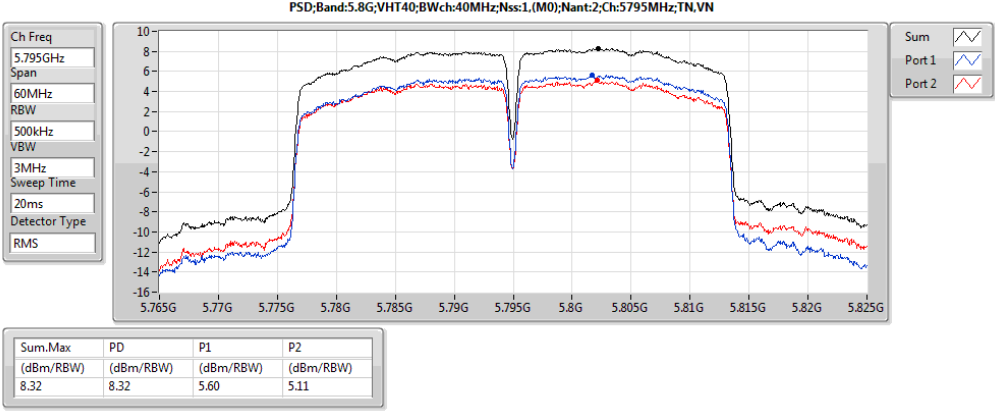
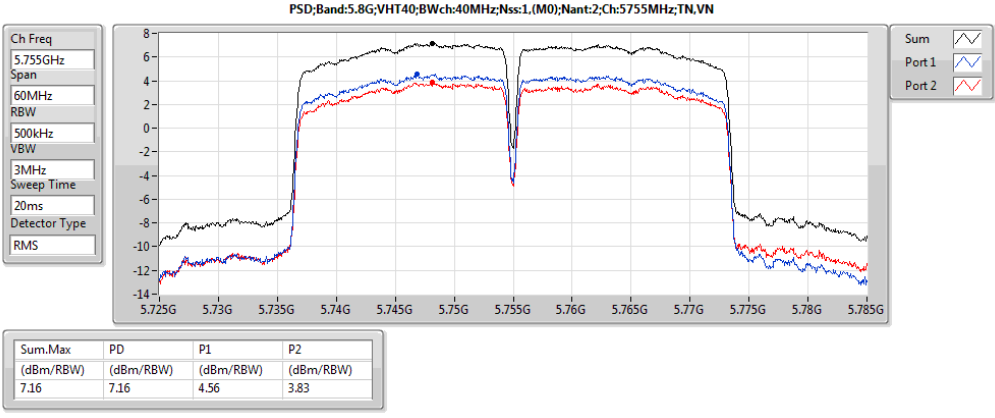
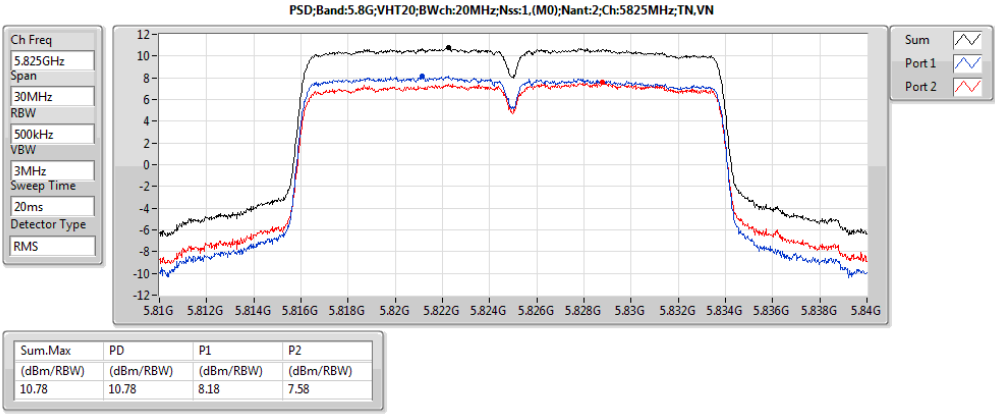
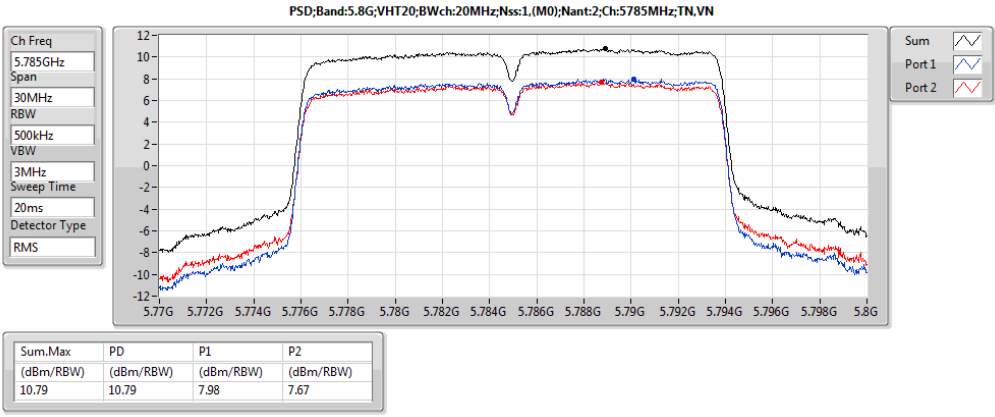
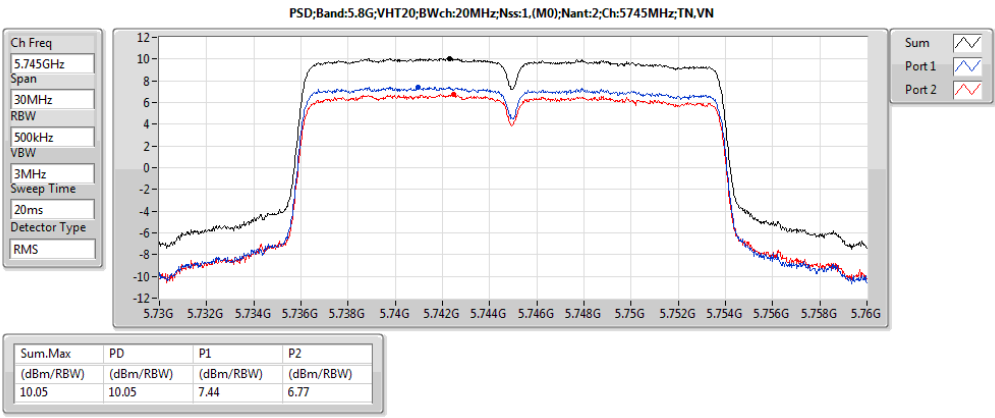
Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	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	4.01	10.36	17.00	14.37	Inf	7.30	7.52
5.2G;11a;Nss1;Ntx2;5200	Pass	1M	1M	0.00	4.01	12.81	17.00	16.82	Inf	10.13	9.63
5.2G;11a;Nss1;Ntx2;5240	Pass	1M	1M	0.00	4.01	11.54	17.00	15.55	Inf	8.94	8.43
5.2G;VHT20;Nss1,(M0);Ntx2;5180	Pass	1M	1M	0.00	4.01	10.43	17.00	14.44	Inf	7.36	7.62
5.2G;VHT20;Nss1,(M0);Ntx2;5200	Pass	1M	1M	0.00	4.01	13.07	17.00	17.08	Inf	10.35	9.89
5.2G;VHT20;Nss1,(M0);Ntx2;5240	Pass	1M	1M	0.00	4.01	10.91	17.00	14.92	Inf	8.00	7.88
5.2G;VHT40;Nss1,(M0);Ntx2;5190	Pass	1M	1M	0.00	4.01	4.46	17.00	8.47	Inf	1.48	1.51
5.2G;VHT40;Nss1,(M0);Ntx2;5230	Pass	1M	1M	0.00	4.01	8.26	17.00	12.27	Inf	5.23	5.40
5.2G;VHT80;Nss1,(M0);Ntx2;5210	Pass	1M	1M	0.00	4.01	0.45	17.00	4.46	Inf	-2.50	-2.56
5.8G;11a;Nss1;Ntx2;5745	Pass	500k	500k	0.00	4.01	10.55	30.00	14.56	36.00	8.04	7.21
5.8G;11a;Nss1;Ntx2;5785	Pass	500k	500k	0.00	4.01	11.39	30.00	15.40	36.00	8.60	8.23
5.8G;11a;Nss1;Ntx2;5825	Pass	500k	500k	0.00	4.01	11.23	30.00	15.24	36.00	8.55	8.05
5.8G;VHT20;Nss1,(M0);Ntx2;5745	Pass	500k	500k	0.00	4.01	10.05	30.00	14.06	36.00	7.44	6.77
5.8G;VHT20;Nss1,(M0);Ntx2;5785	Pass	500k	500k	0.00	4.01	10.79	30.00	14.80	36.00	7.98	7.67
5.8G;VHT20;Nss1,(M0);Ntx2;5825	Pass	500k	500k	0.00	4.01	10.78	30.00	14.79	36.00	8.18	7.58
5.8G;VHT40;Nss1,(M0);Ntx2;5755	Pass	500k	500k	0.00	4.01	7.16	30.00	11.17	36.00	4.56	3.83
5.8G;VHT40;Nss1,(M0);Ntx2;5795	Pass	500k	500k	0.00	4.01	8.32	30.00	12.33	36.00	5.60	5.11
5.8G;VHT80;Nss1,(M0);Ntx2;5775	Pass	500k	500k	0.00	4.01	2.46	30.00	6.47	36.00	-0.34	-0.69

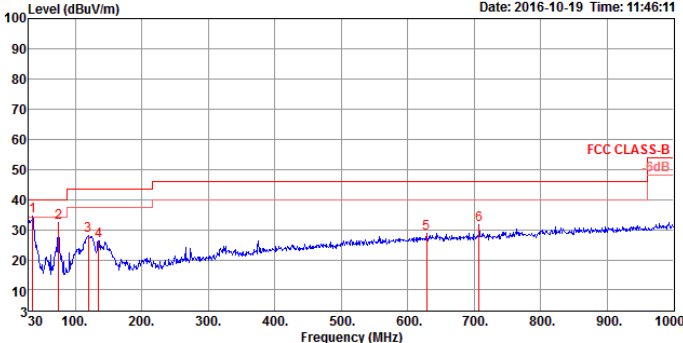


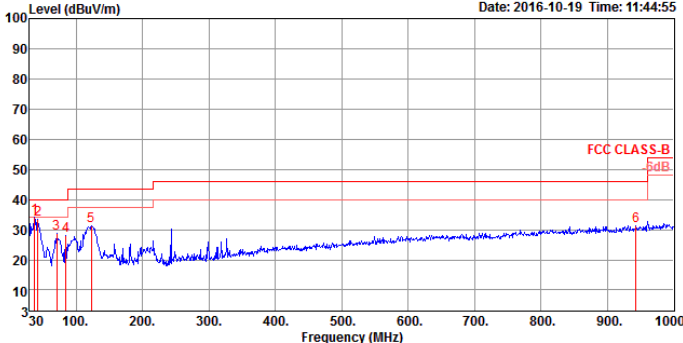


PSD Result





RSE below 1GHz Result																																																																																																									
Operating Mode	2				Polarization				Horizontal																																																																																																
Operating Function	CTX																																																																																																								
Level (dBuV/m) Date: 2016-10-19 Time: 11:46:11  <table><tr><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>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>35.82</td><td>34.47</td><td>40.00</td><td>-5.53</td><td>43.97</td><td>0.57</td><td>22.73</td><td>32.80</td><td>300</td><td>233 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>74.62</td><td>32.32</td><td>40.00</td><td>-7.68</td><td>50.69</td><td>0.82</td><td>13.23</td><td>32.42</td><td>200</td><td>286 Peak</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>119.24</td><td>27.93</td><td>43.50</td><td>-15.57</td><td>40.21</td><td>1.05</td><td>19.09</td><td>32.42</td><td>300</td><td>115 Peak</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>134.76</td><td>26.41</td><td>43.50</td><td>-17.09</td><td>39.19</td><td>1.11</td><td>18.51</td><td>32.40</td><td>200</td><td>129 Peak</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>628.49</td><td>28.89</td><td>46.00</td><td>-17.11</td><td>33.02</td><td>2.44</td><td>25.83</td><td>32.40</td><td>300</td><td>354 Peak</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>707.06</td><td>31.70</td><td>46.00</td><td>-14.30</td><td>35.52</td><td>2.57</td><td>25.98</td><td>32.37</td><td>125</td><td>285 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	dB	dB/m	dB	cm	deg		1	35.82	34.47	40.00	-5.53	43.97	0.57	22.73	32.80	300	233 Peak	HORIZONTAL	2	74.62	32.32	40.00	-7.68	50.69	0.82	13.23	32.42	200	286 Peak	HORIZONTAL	3	119.24	27.93	43.50	-15.57	40.21	1.05	19.09	32.42	300	115 Peak	HORIZONTAL	4	134.76	26.41	43.50	-17.09	39.19	1.11	18.51	32.40	200	129 Peak	HORIZONTAL	5	628.49	28.89	46.00	-17.11	33.02	2.44	25.83	32.40	300	354 Peak	HORIZONTAL	6	707.06	31.70	46.00	-14.30	35.52	2.57	25.98	32.37	125	285 Peak	HORIZONTAL
Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																															
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg																																																																																																
1	35.82	34.47	40.00	-5.53	43.97	0.57	22.73	32.80	300	233 Peak	HORIZONTAL																																																																																														
2	74.62	32.32	40.00	-7.68	50.69	0.82	13.23	32.42	200	286 Peak	HORIZONTAL																																																																																														
3	119.24	27.93	43.50	-15.57	40.21	1.05	19.09	32.42	300	115 Peak	HORIZONTAL																																																																																														
4	134.76	26.41	43.50	-17.09	39.19	1.11	18.51	32.40	200	129 Peak	HORIZONTAL																																																																																														
5	628.49	28.89	46.00	-17.11	33.02	2.44	25.83	32.40	300	354 Peak	HORIZONTAL																																																																																														
6	707.06	31.70	46.00	-14.30	35.52	2.57	25.98	32.37	125	285 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	CTX																																																																																																									
Level (dBuV/m) Date: 2016-10-19 Time: 11:44:55  <table><tr><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>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>37.76</td><td>34.10</td><td>40.00</td><td>-5.90</td><td>44.74</td><td>0.58</td><td>21.51</td><td>32.73</td><td>100</td><td>113 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>42.61</td><td>33.55</td><td>40.00</td><td>-6.45</td><td>46.96</td><td>0.61</td><td>18.56</td><td>32.58</td><td>100</td><td>14 Peak</td><td>VERTICAL</td></tr><tr><td>3</td><td>70.74</td><td>28.87</td><td>40.00</td><td>-11.13</td><td>47.53</td><td>0.80</td><td>12.96</td><td>32.42</td><td>200</td><td>128 Peak</td><td>VERTICAL</td></tr><tr><td>4</td><td>84.32</td><td>28.00</td><td>40.00</td><td>-12.00</td><td>45.06</td><td>0.91</td><td>14.46</td><td>32.43</td><td>125</td><td>287 Peak</td><td>VERTICAL</td></tr><tr><td>5</td><td>123.12</td><td>31.23</td><td>43.50</td><td>-12.27</td><td>43.57</td><td>1.07</td><td>19.00</td><td>32.41</td><td>100</td><td>194 Peak</td><td>VERTICAL</td></tr><tr><td>6</td><td>942.77</td><td>31.23</td><td>46.00</td><td>-14.77</td><td>31.50</td><td>2.97</td><td>28.05</td><td>31.29</td><td>150</td><td>108 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	dB	dB/m	dB	cm	deg		1	37.76	34.10	40.00	-5.90	44.74	0.58	21.51	32.73	100	113 Peak	VERTICAL	2	42.61	33.55	40.00	-6.45	46.96	0.61	18.56	32.58	100	14 Peak	VERTICAL	3	70.74	28.87	40.00	-11.13	47.53	0.80	12.96	32.42	200	128 Peak	VERTICAL	4	84.32	28.00	40.00	-12.00	45.06	0.91	14.46	32.43	125	287 Peak	VERTICAL	5	123.12	31.23	43.50	-12.27	43.57	1.07	19.00	32.41	100	194 Peak	VERTICAL	6	942.77	31.23	46.00	-14.77	31.50	2.97	28.05	31.29	150	108 Peak	VERTICAL
Freq	Level	Limit	Over	Read	CableAntenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase																																																																																																
MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg																																																																																																	
1	37.76	34.10	40.00	-5.90	44.74	0.58	21.51	32.73	100	113 Peak	VERTICAL																																																																																															
2	42.61	33.55	40.00	-6.45	46.96	0.61	18.56	32.58	100	14 Peak	VERTICAL																																																																																															
3	70.74	28.87	40.00	-11.13	47.53	0.80	12.96	32.42	200	128 Peak	VERTICAL																																																																																															
4	84.32	28.00	40.00	-12.00	45.06	0.91	14.46	32.43	125	287 Peak	VERTICAL																																																																																															
5	123.12	31.23	43.50	-12.27	43.57	1.07	19.00	32.41	100	194 Peak	VERTICAL																																																																																															
6	942.77	31.23	46.00	-14.77	31.50	2.97	28.05	31.29	150	108 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;20;1,(M0);2;5180;L;TX	Pass	AV	5.1498G	53.79	54.00	-0.21	3.90	3	H	6	2.45	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.654G	71.06	71.16	-0.10	5.01	3	V	190	1.95	-



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;20;1;2;5180;L;TX	Pass	AV	5.1478G	51.59	54.00	-2.41	3.90	3	H	29	2.39	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.1772G	101.46	Inf	-Inf	3.95	3	H	29	2.39	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	15.53936G	43.09	54.00	-10.91	13.58	3	H	298	1.50	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1472G	67.54	74.00	-6.46	3.89	3	H	29	2.39	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1776G	113.71	Inf	-Inf	3.96	3	H	29	2.39	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	15.54672G	56.43	74.00	-17.57	13.58	3	H	298	1.50	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.147G	48.46	54.00	-5.54	3.89	3	V	11	1.89	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	5.1818G	100.25	Inf	-Inf	3.96	3	V	11	1.89	-
5.2G;11a;20;1;2;5180;L;TX	Pass	AV	15.5364G	42.78	54.00	-11.22	13.59	3	V	332	2.98	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.147G	62.77	74.00	-11.23	3.89	3	V	11	1.89	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	5.1768G	110.51	Inf	-Inf	3.95	3	V	11	1.89	-
5.2G;11a;20;1;2;5180;L;TX	Pass	PK	15.53804G	55.73	74.00	-18.27	13.59	3	V	332	2.98	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.1496G	51.08	54.00	-2.92	3.90	3	H	354	2.95	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.1992G	103.63	Inf	-Inf	4.00	3	H	354	2.95	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	15.59932G	44.12	54.00	-9.88	13.51	3	H	296	1.75	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.1496G	66.70	74.00	-7.30	3.90	3	H	354	2.95	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.1944G	116.72	Inf	-Inf	3.99	3	H	354	2.95	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	15.59502G	58.23	74.00	-15.77	13.52	3	H	296	1.75	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.1496G	47.82	54.00	-6.18	3.90	3	V	93	2.87	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	5.1948G	104.35	Inf	-Inf	3.99	3	V	93	2.87	-
5.2G;11a;20;1;2;5200;M;TX	Pass	AV	15.5988G	42.46	54.00	-11.54	13.52	3	V	41	1.24	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.1496G	62.16	74.00	-11.84	3.90	3	V	93	2.87	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	5.1948G	116.02	Inf	-Inf	3.99	3	V	93	2.87	-
5.2G;11a;20;1;2;5200;M;TX	Pass	PK	15.595G	56.39	74.00	-17.61	13.52	3	V	41	1.24	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.1386G	43.75	54.00	-10.25	3.88	3	H	171	2.99	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.2412G	101.60	Inf	-Inf	4.09	3	H	171	2.99	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.3726G	43.80	54.00	-10.20	4.35	3	H	171	2.99	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	15.71832G	42.92	54.00	-11.08	13.38	3	H	297	2.00	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.102G	57.49	74.00	-16.51	3.80	3	H	171	2.99	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.2382G	114.03	Inf	-Inf	4.08	3	H	171	2.99	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.3744G	56.99	74.00	-17.01	4.35	3	H	171	2.99	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	15.72422G	56.86	74.00	-17.14	13.37	3	H	297	2.00	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.1356G	43.62	54.00	-10.38	3.87	3	V	89	2.50	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.2394G	102.53	Inf	-Inf	4.08	3	V	89	2.50	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	5.3798G	43.80	54.00	-10.20	4.36	3	V	89	2.50	-
5.2G;11a;20;1;2;5240;H;TX	Pass	AV	15.7186G	43.05	54.00	-10.95	13.38	3	V	49	2.57	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.0996G	56.77	74.00	-17.23	3.80	3	V	89	2.50	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.2346G	114.02	Inf	-Inf	4.07	3	V	89	2.50	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	5.3576G	57.58	74.00	-16.42	4.32	3	V	89	2.50	-
5.2G;11a;20;1;2;5240;H;TX	Pass	PK	15.7202G	56.26	74.00	-17.74	13.37	3	V	49	2.57	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	AV	5.1498G	53.79	54.00	-0.21	3.90	3	H	6	2.45	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	AV	5.1774G	102.04	Inf	-Inf	3.95	3	H	6	2.45	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	AV	15.53834G	42.88	54.00	-11.12	13.59	3	H	304	1.50	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	PK	5.1498G	69.23	74.00	-4.77	3.90	3	H	6	2.45	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	PK	5.1816G	113.11	Inf	-Inf	3.96	3	H	6	2.45	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	PK	15.53976G	56.32	74.00	-17.68	13.58	3	H	304	1.50	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	AV	5.1474G	50.77	54.00	-3.23	3.89	3	V	270	2.86	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	AV	5.183G	103.63	Inf	-Inf	3.97	3	V	270	2.86	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	AV	15.53932G	42.43	54.00	-11.57	13.58	3	V	39	2.00	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	PK	5.1488G	66.69	74.00	-7.31	3.90	3	V	270	2.86	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	PK	5.1816G	115.10	Inf	-Inf	3.96	3	V	270	2.86	-
5.2G;VHT20;20;1,(M0);2;5180;L;TX	Pass	PK	15.53982G	56.92	74.00	-17.08	13.58	3	V	39	2.00	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	AV	5.1496G	51.49	54.00	-2.51	3.90	3	H	9	2.34	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	AV	5.1972G	103.95	Inf	-Inf	3.99	3	H	9	2.34	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	AV	15.60062G	43.87	54.00	-10.13	13.51	3	H	300	1.40	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	PK	5.1496G	68.87	74.00	-5.13	3.90	3	H	9	2.34	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	PK	5.1956G	115.14	Inf	-Inf	3.99	3	H	9	2.34	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	PK	15.60156G	58.04	74.00	-15.96	13.51	3	H	300	1.40	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	AV	5.1424G	47.94	54.00	-6.06	3.88	3	V	97	2.85	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	AV	5.1984G	105.55	Inf	-Inf	4.00	3	V	97	2.85	-



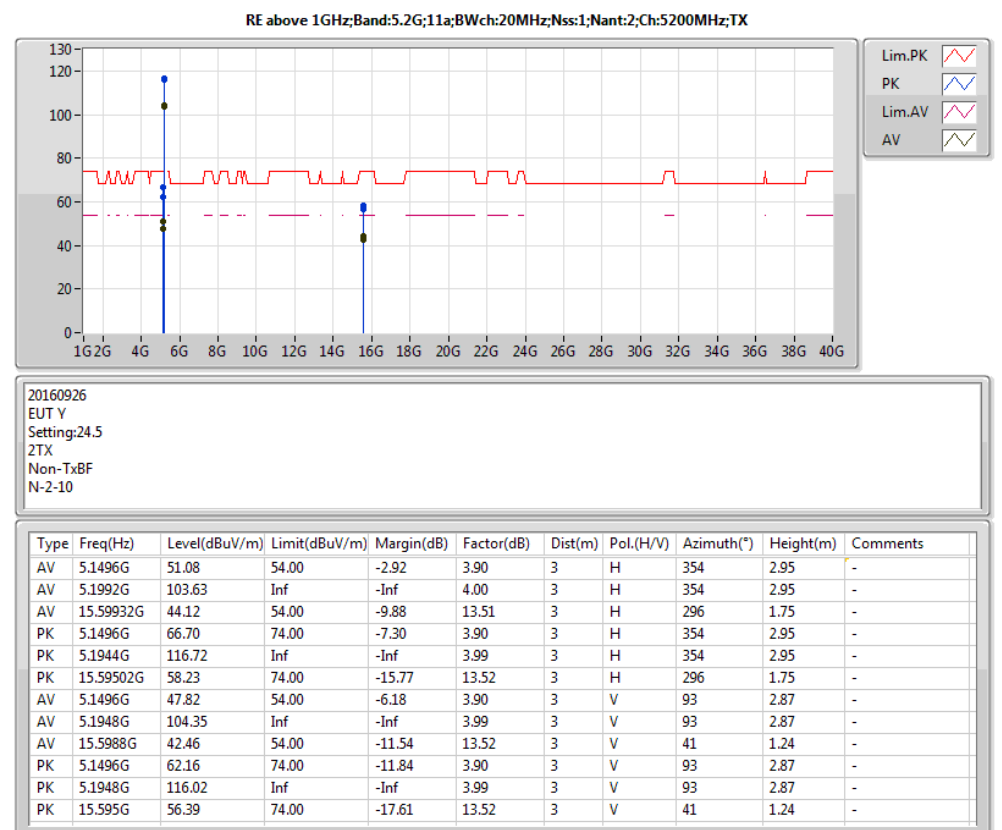
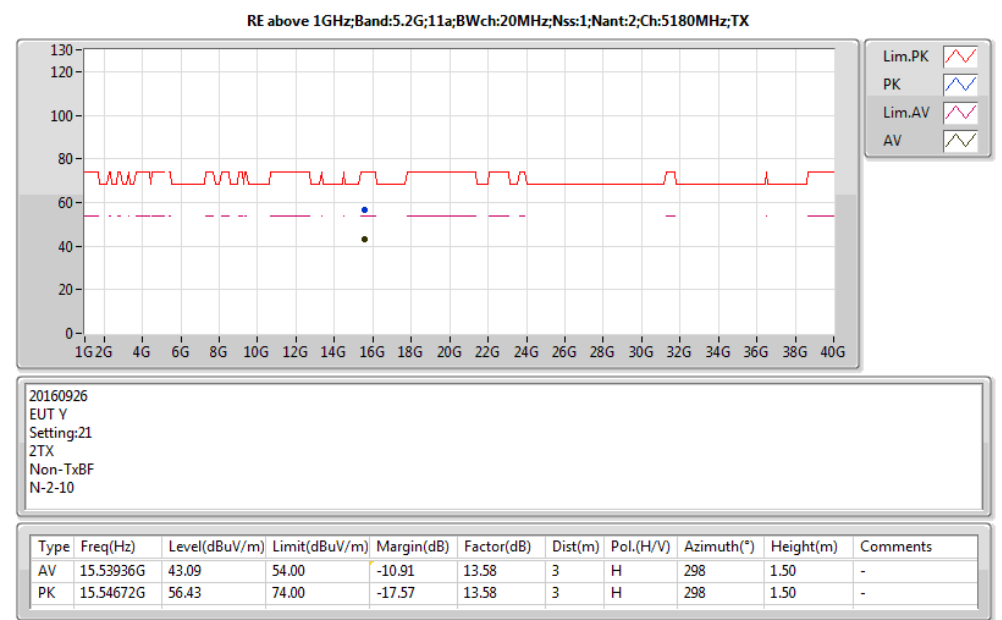
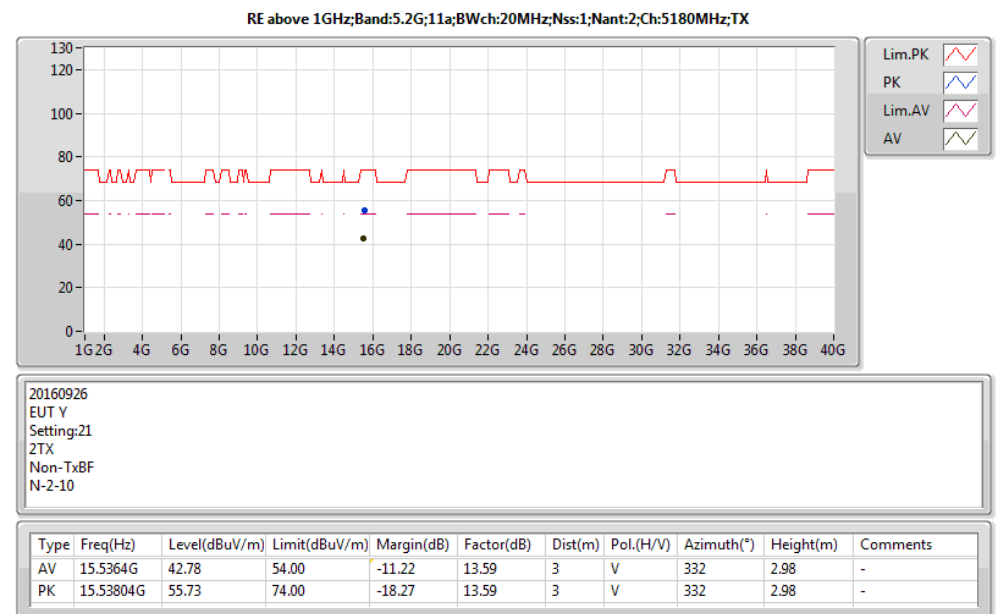
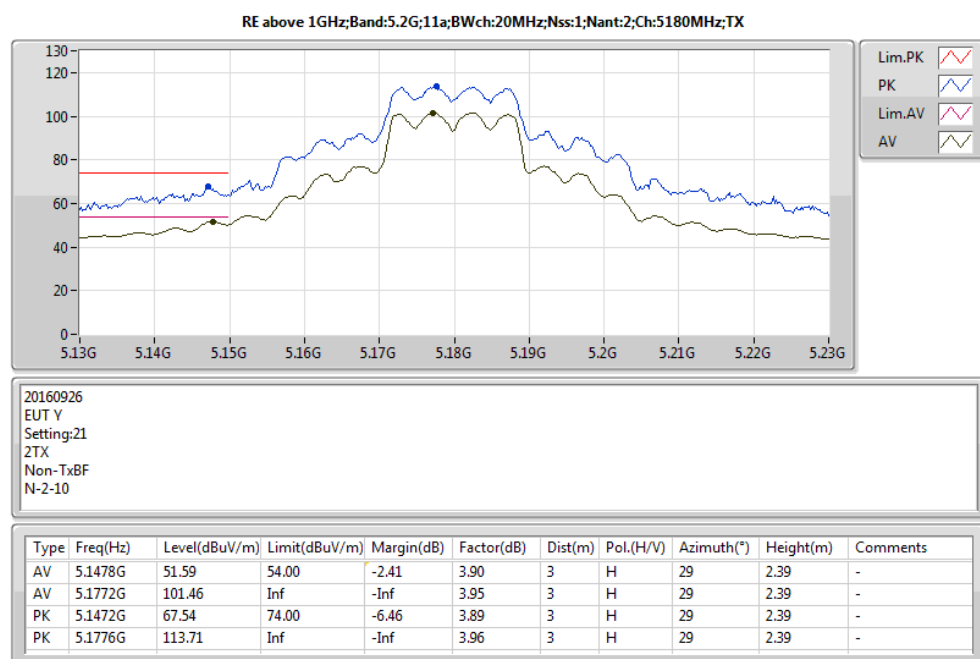
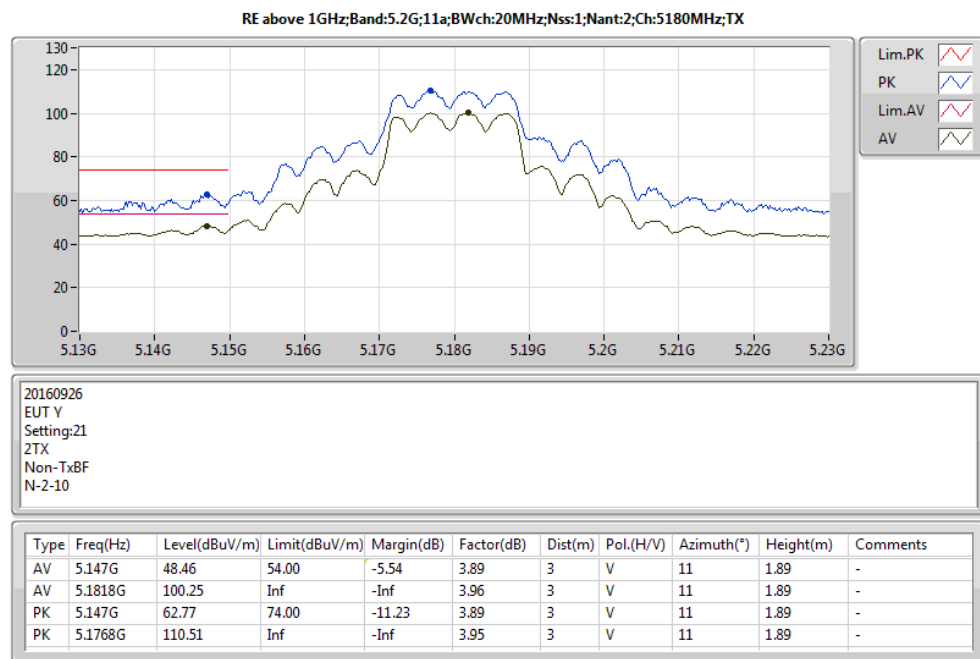
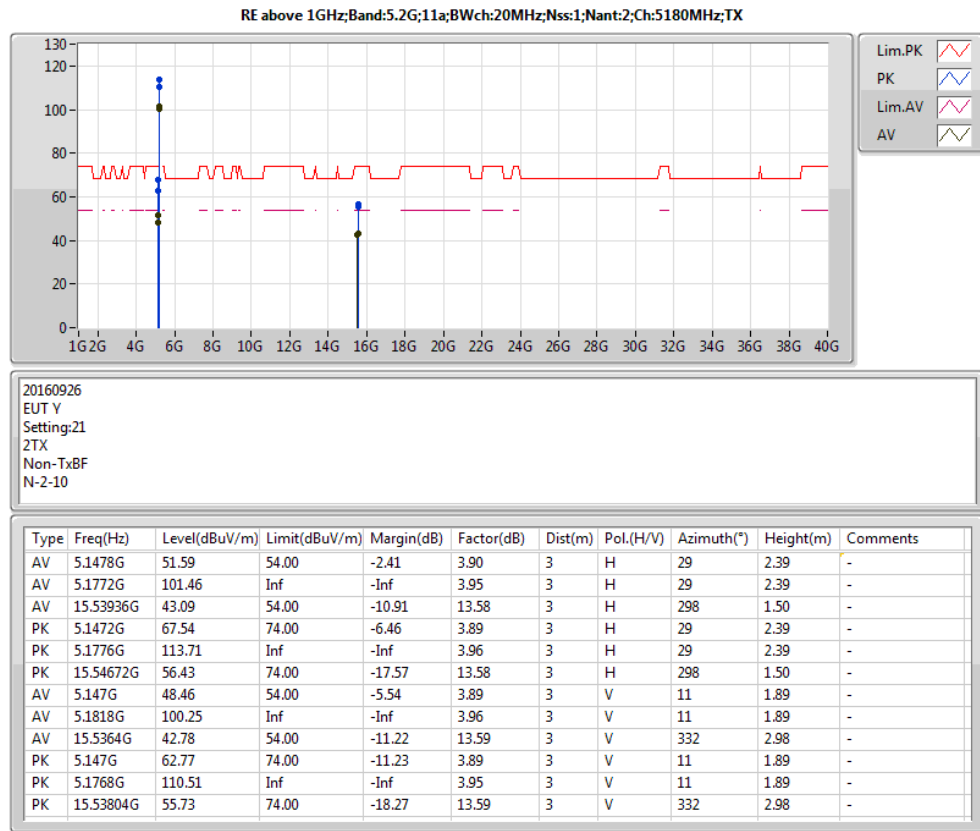
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	AV	15.59892G	42.25	54.00	-11.75	13.52	3	V	44	1.26	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	PK	5.144G	63.82	74.00	-10.18	3.89	3	V	97	2.85	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	PK	5.198G	116.81	Inf	-Inf	4.00	3	V	97	2.85	-
5.2G;VHT20;20;1,(M0);2;5200;M;TX	Pass	PK	15.5996G	57.07	74.00	-16.93	13.51	3	V	44	1.26	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	5.1494G	43.64	54.00	-10.36	3.90	3	H	183	2.99	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	5.243G	102.80	Inf	-Inf	4.09	3	H	183	2.99	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	5.3576G	43.51	54.00	-10.49	4.32	3	H	183	2.99	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	15.7163G	43.27	54.00	-10.73	13.38	3	H	303	1.33	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	5.135G	56.69	74.00	-17.31	3.87	3	H	183	2.99	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	5.2454G	114.14	Inf	-Inf	4.10	3	H	183	2.99	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	5.351G	56.61	74.00	-17.39	4.31	3	H	183	2.99	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	15.71796G	56.20	74.00	-17.80	13.38	3	H	303	1.33	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	5.1476G	43.29	54.00	-10.71	3.90	3	V	94	2.79	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	5.237G	103.75	Inf	-Inf	4.08	3	V	94	2.79	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	5.3666G	43.49	54.00	-10.51	4.34	3	V	94	2.79	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	AV	15.72426G	42.81	54.00	-11.19	13.37	3	V	220	1.60	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	5.1422G	57.26	74.00	-16.74	3.88	3	V	94	2.79	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	5.2358G	114.55	Inf	-Inf	4.08	3	V	94	2.79	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	5.3648G	56.67	74.00	-17.33	4.33	3	V	94	2.79	-
5.2G;VHT20;20;1,(M0);2;5240;H;TX	Pass	PK	15.71926G	56.40	74.00	-17.60	13.38	3	V	220	1.60	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	AV	5.1492G	53.08	54.00	-0.92	3.90	3	H	6	2.40	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	AV	5.1844G	95.83	Inf	-Inf	3.97	3	H	6	2.40	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	AV	15.56698G	42.54	54.00	-11.46	13.55	3	H	40	1.50	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	PK	5.1464G	67.63	74.00	-6.37	3.89	3	H	6	2.40	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	PK	5.1872G	105.73	Inf	-Inf	3.97	3	H	6	2.40	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	PK	15.56624G	56.10	74.00	-17.90	13.55	3	H	40	1.50	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	AV	5.1492G	50.01	54.00	-3.99	3.90	3	V	182	1.75	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	AV	5.1968G	94.92	Inf	-Inf	3.99	3	V	182	1.75	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	AV	15.57092G	42.33	54.00	-11.67	13.55	3	V	293	1.52	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	PK	5.1496G	63.69	74.00	-10.31	3.90	3	V	182	1.75	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	PK	5.1972G	104.37	Inf	-Inf	3.99	3	V	182	1.75	-
5.2G;VHT40;40;1,(M0);2;5190;L;TX	Pass	PK	15.56782G	56.51	74.00	-17.49	13.55	3	V	293	1.52	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	5.1496G	50.72	54.00	-3.28	3.90	3	H	9	2.34	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	5.2246G	100.83	Inf	-Inf	4.05	3	H	9	2.34	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	5.356G	44.47	54.00	-9.53	4.32	3	H	9	2.34	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	15.6881G	42.72	54.00	-11.28	13.41	3	H	172	1.63	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	5.1478G	63.49	74.00	-10.51	3.90	3	H	9	2.34	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	5.2246G	110.87	Inf	-Inf	4.05	3	H	9	2.34	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	5.3578G	56.68	74.00	-17.32	4.32	3	H	9	2.34	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	15.69108G	55.94	74.00	-18.06	13.41	3	H	172	1.63	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	5.149G	47.00	54.00	-7.00	3.90	3	V	96	2.72	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	5.2264G	100.63	Inf	-Inf	4.06	3	V	96	2.72	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	5.3596G	44.19	54.00	-9.81	4.32	3	V	96	2.72	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	AV	15.69298G	42.73	54.00	-11.27	13.41	3	V	229	1.50	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	5.1484G	59.23	74.00	-14.77	3.90	3	V	96	2.72	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	5.227G	110.41	Inf	-Inf	4.06	3	V	96	2.72	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	5.3752G	56.57	74.00	-17.43	4.35	3	V	96	2.72	-
5.2G;VHT40;40;1,(M0);2;5230;H;TX	Pass	PK	15.68546G	57.11	74.00	-16.89	13.41	3	V	229	1.50	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	5.145G	52.19	54.00	-1.81	3.89	3	H	184	2.79	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	5.192G	91.34	Inf	-Inf	3.98	3	H	184	2.79	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	5.353G	44.82	54.00	-9.18	4.31	3	H	184	2.79	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	15.63288G	42.46	54.00	-11.54	13.48	3	H	239	1.50	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	5.145G	65.82	74.00	-8.18	3.89	3	H	184	2.79	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	5.204G	101.93	Inf	-Inf	4.01	3	H	184	2.79	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	5.367G	56.63	74.00	-17.37	4.34	3	H	184	2.79	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	15.62898G	55.71	74.00	-18.29	13.48	3	H	239	1.50	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	5.149G	53.45	54.00	-0.55	3.90	3	V	91	2.90	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	5.208G	92.15	Inf	-Inf	4.02	3	V	91	2.90	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	5.424G	44.71	54.00	-9.29	4.43	3	V	91	2.90	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	AV	15.62906G	42.42	54.00	-11.58	13.48	3	V	310	1.43	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	5.148G	65.90	74.00	-8.10	3.90	3	V	91	2.90	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	5.189G	101.88	Inf	-Inf	3.98	3	V	91	2.90	-

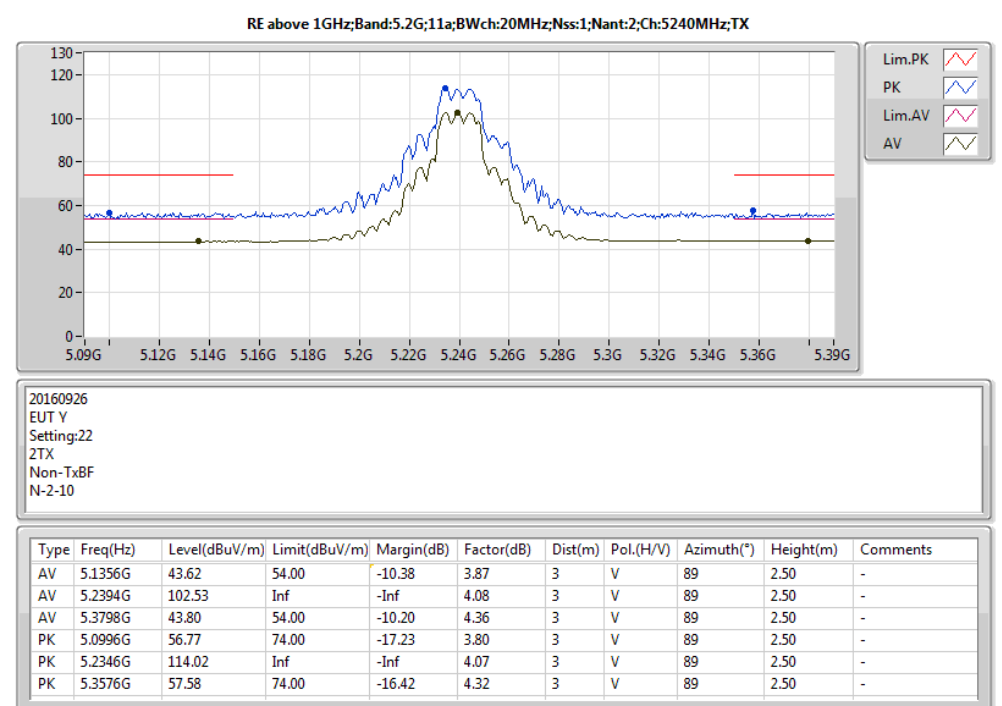
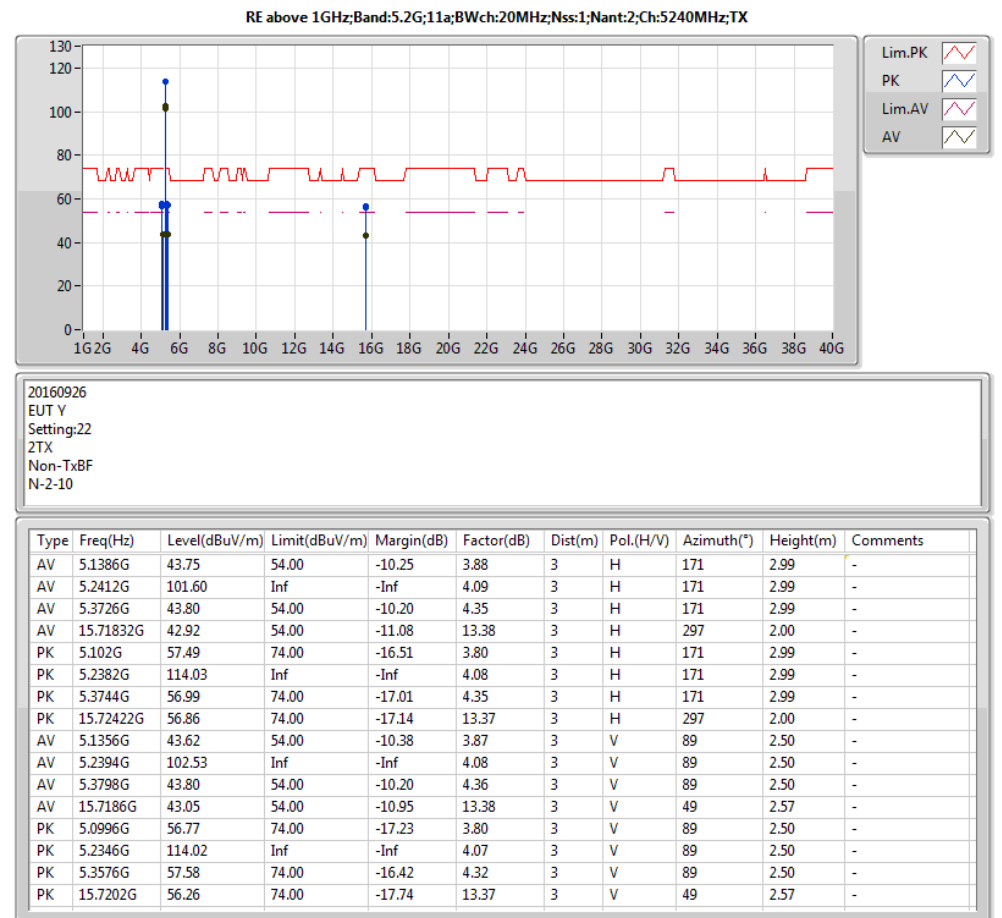
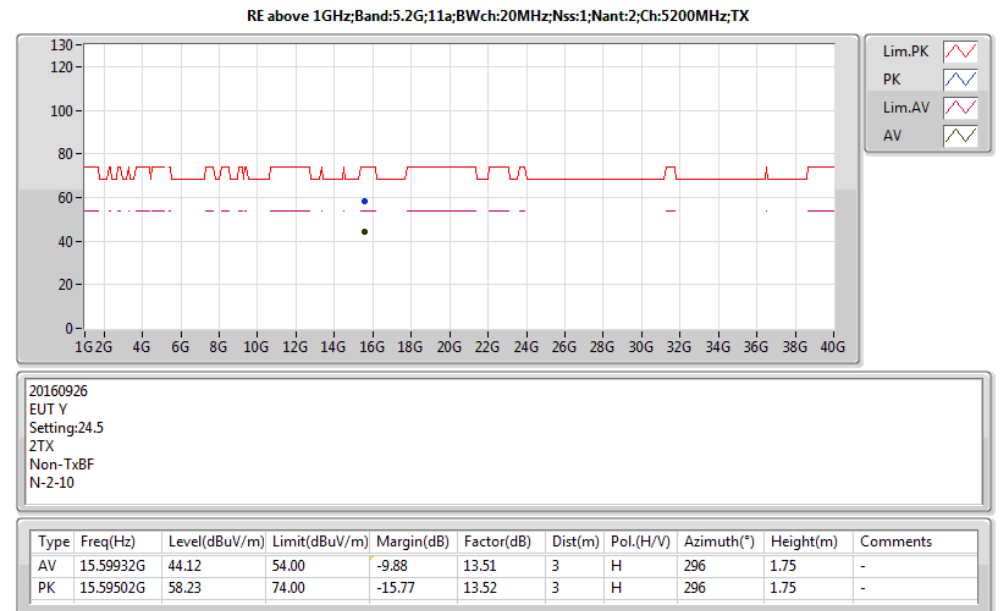
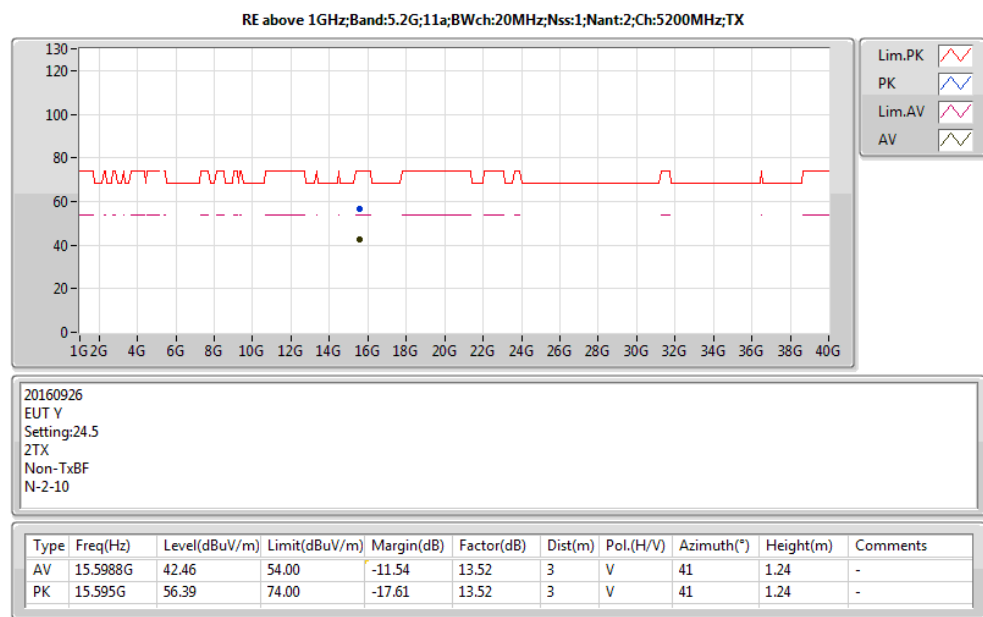
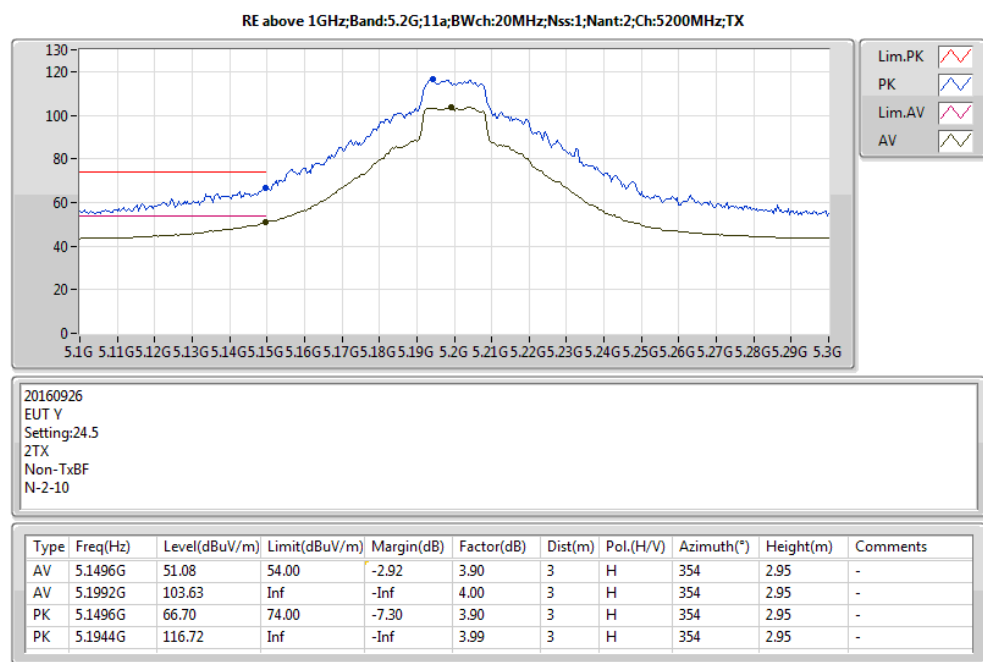
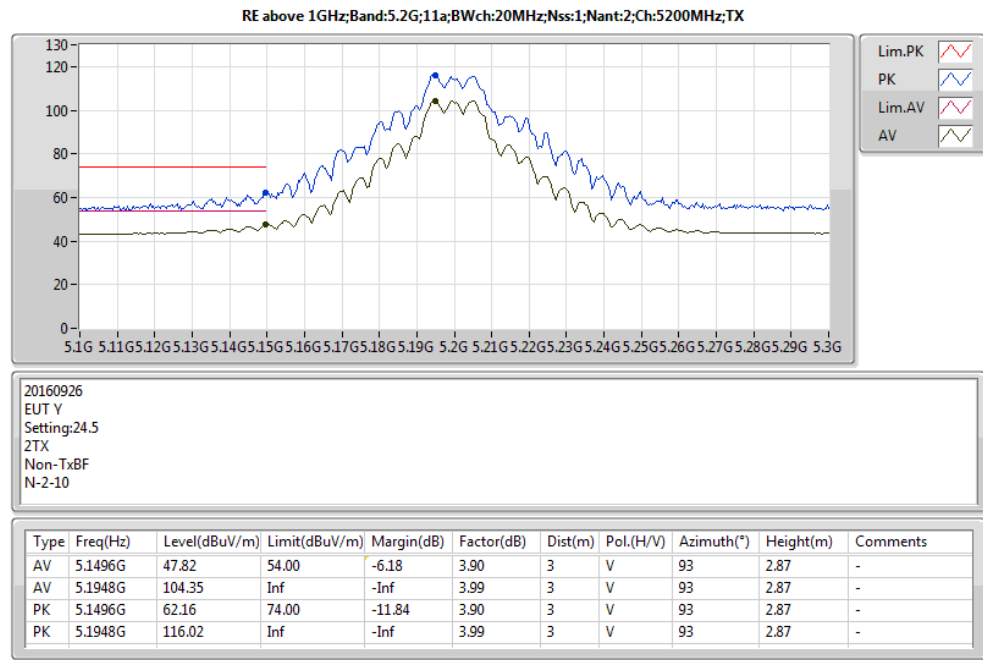


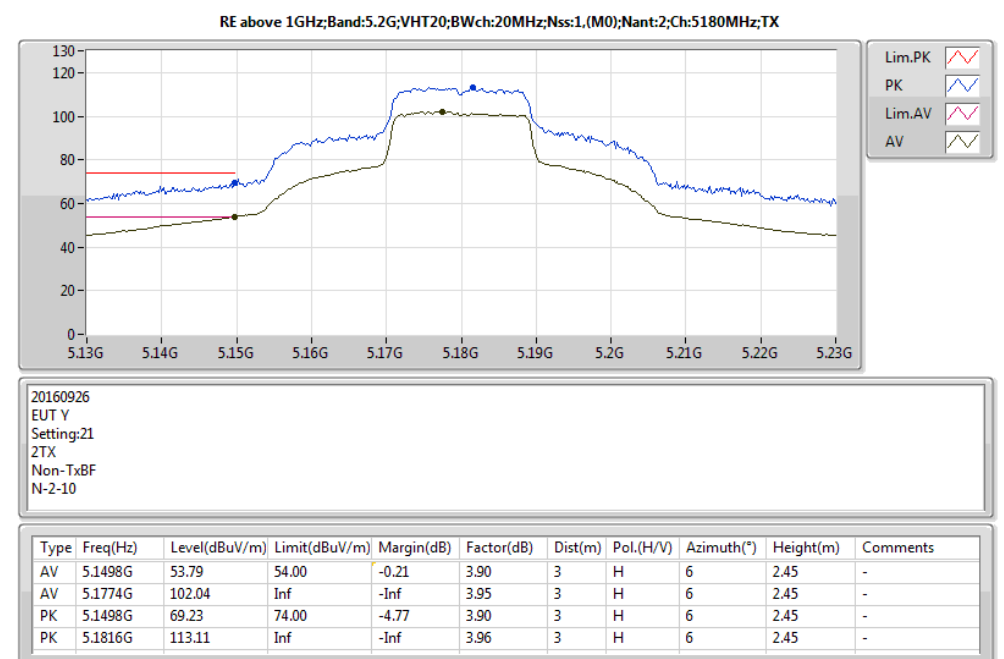
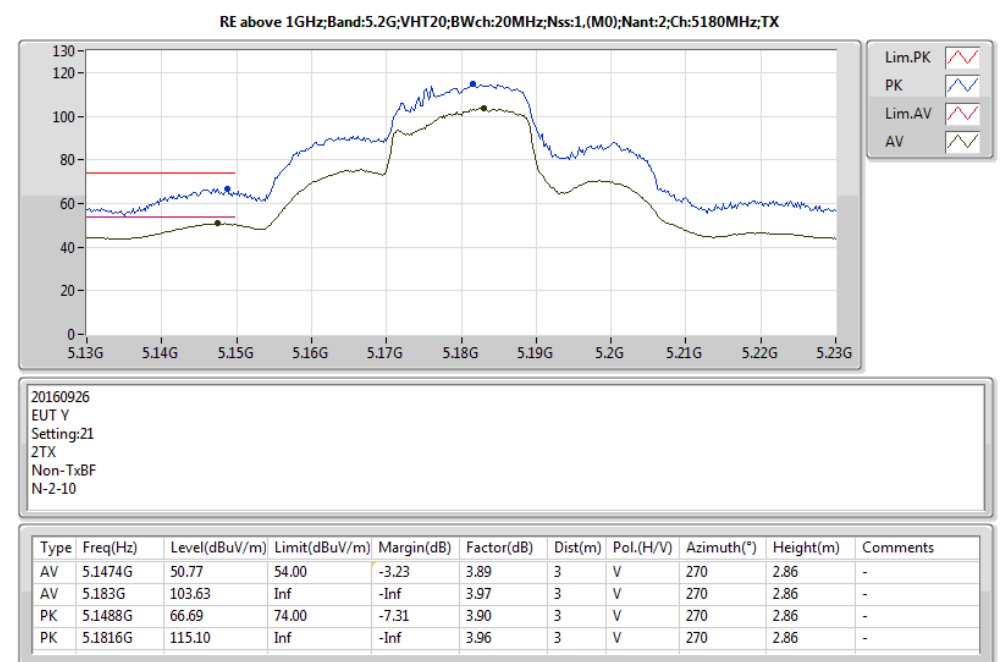
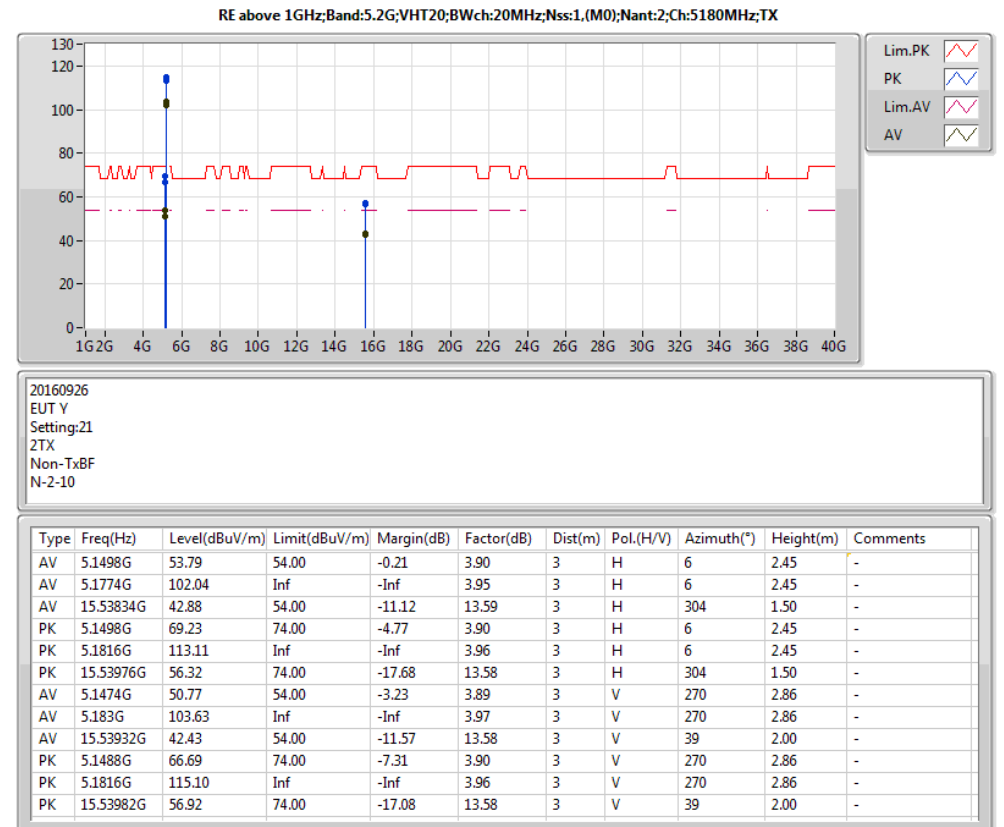
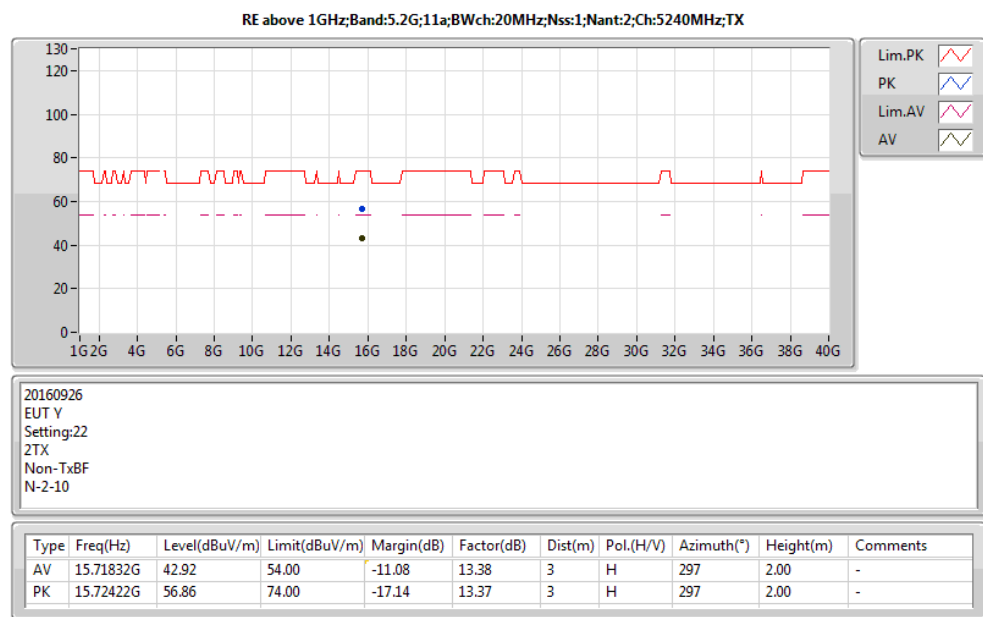
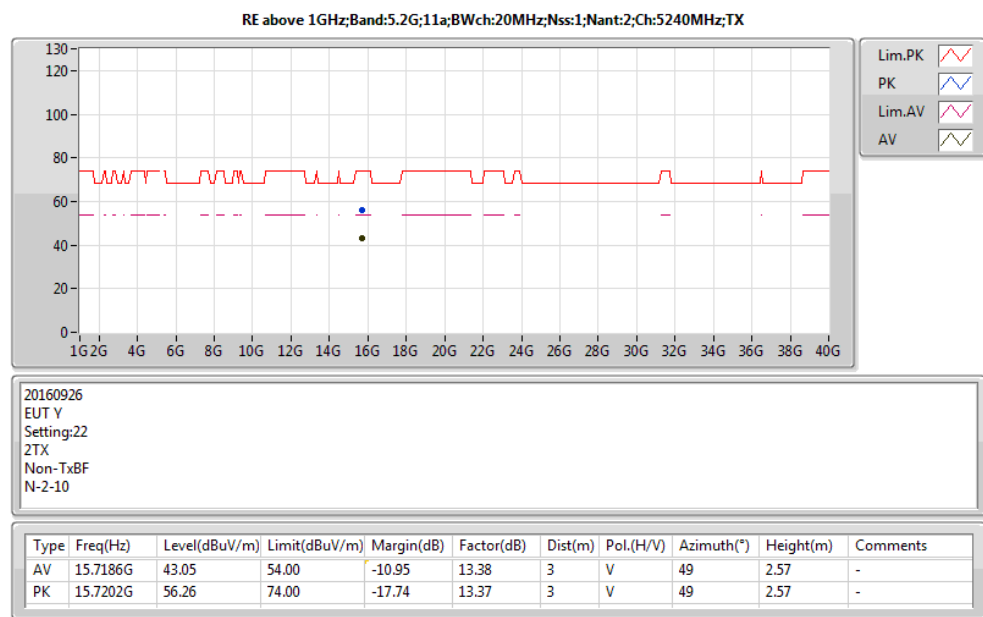
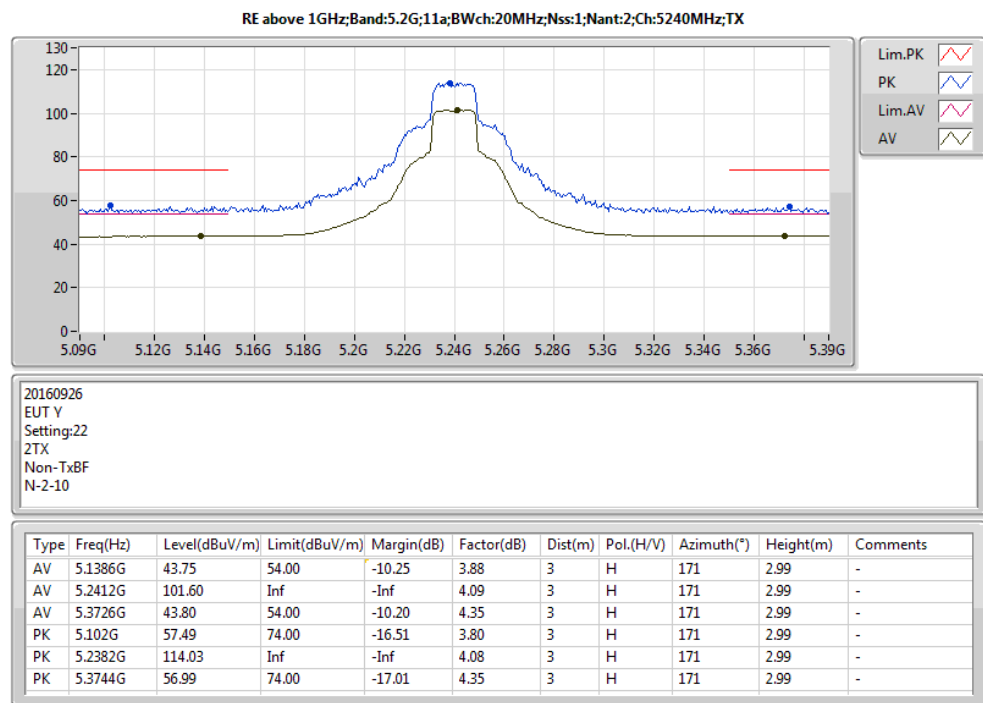
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	5.367G	56.97	74.00	-17.03	4.34	3	V	91	2.90	-
5.2G;VHT80;80;1,(M0);2;5210;S;TX	Pass	PK	15.62578G	56.04	74.00	-17.96	13.48	3	V	310	1.43	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.744G	105.27	Inf	-Inf	5.38	3	H	328	2.94	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	11.48784G	47.48	54.00	-6.52	11.78	3	H	20	1.97	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.649G	58.36	68.20	-9.84	4.99	3	H	328	2.94	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.743G	116.32	Inf	-Inf	5.38	3	H	328	2.94	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.955G	58.43	68.20	-9.77	6.07	3	H	328	2.94	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	11.49272G	60.10	74.00	-13.90	11.78	3	H	20	1.97	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	5.746G	105.86	Inf	-Inf	5.39	3	V	182	1.57	-
5.8G;11a;20;1;2;5745;L;TX	Pass	AV	11.48776G	42.88	54.00	-11.12	11.78	3	V	12	1.35	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.503G	57.69	68.20	-10.51	4.53	3	V	182	1.57	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.742G	115.62	Inf	-Inf	5.38	3	V	182	1.57	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	5.959G	58.17	68.20	-10.03	6.08	3	V	182	1.57	-
5.8G;11a;20;1;2;5745;L;TX	Pass	PK	11.49292G	56.26	74.00	-17.74	11.78	3	V	12	1.35	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.784G	105.42	Inf	-Inf	5.55	3	H	159	2.92	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	11.57174G	46.77	54.00	-7.23	11.82	3	H	20	2.01	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.57G	57.23	68.20	-10.97	4.70	3	H	159	2.92	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.789G	116.25	Inf	-Inf	5.57	3	H	159	2.92	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.938G	58.46	68.20	-9.74	6.02	3	H	159	2.92	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	11.57114G	60.05	74.00	-13.95	11.82	3	H	20	2.01	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	5.79G	105.76	Inf	-Inf	5.58	3	V	184	1.60	-
5.8G;11a;20;1;2;5785;M;TX	Pass	AV	11.57016G	43.79	54.00	-10.21	11.82	3	V	347	1.43	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.639G	57.29	68.20	-10.91	4.94	3	V	184	1.60	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.791G	115.74	Inf	-Inf	5.58	3	V	184	1.60	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	5.977G	59.28	68.20	-8.92	6.13	3	V	184	1.60	-
5.8G;11a;20;1;2;5785;M;TX	Pass	PK	11.57056G	57.24	74.00	-16.76	11.82	3	V	347	1.43	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.828G	105.63	Inf	-Inf	5.70	3	H	329	2.95	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	11.65014G	44.80	54.00	-9.20	11.86	3	H	15	1.51	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.636G	57.43	68.20	-10.77	4.93	3	H	329	2.95	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.832G	116.26	Inf	-Inf	5.71	3	H	329	2.95	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.925G	59.54	68.20	-8.66	5.98	3	H	329	2.95	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	11.65076G	58.64	74.00	-15.36	11.86	3	H	15	1.51	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	5.82G	105.17	Inf	-Inf	5.68	3	V	181	1.73	-
5.8G;11a;20;1;2;5825;H;TX	Pass	AV	11.65202G	43.20	54.00	-10.80	11.87	3	V	23	1.77	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.64G	57.48	68.20	-10.72	4.95	3	V	181	1.73	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.822G	115.43	Inf	-Inf	5.68	3	V	181	1.73	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	5.94G	59.32	68.20	-8.88	6.03	3	V	181	1.73	-
5.8G;11a;20;1;2;5825;H;TX	Pass	PK	11.6469G	56.79	74.00	-17.21	11.86	3	V	23	1.77	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	AV	5.739G	104.37	Inf	-Inf	5.36	3	H	333	2.97	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	AV	11.48864G	44.56	54.00	-9.44	11.78	3	H	334	1.54	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	5.643G	58.94	68.20	-9.26	4.96	3	H	333	2.97	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	5.738G	114.57	Inf	-Inf	5.36	3	H	333	2.97	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	5.979G	58.71	68.20	-9.49	6.14	3	H	333	2.97	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	11.48894G	59.39	74.00	-14.61	11.78	3	H	334	1.54	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	AV	5.748G	104.65	Inf	-Inf	5.40	3	V	189	1.86	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	AV	11.48512G	43.96	54.00	-10.04	11.78	3	V	201	2.78	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	5.595G	58.34	68.20	-9.86	4.77	3	V	189	1.86	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	5.747G	115.37	Inf	-Inf	5.40	3	V	189	1.86	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	5.953G	57.86	68.20	-10.34	6.06	3	V	189	1.86	-
5.8G;VHT20;20;1,(M0);2;5745;L;TX	Pass	PK	11.48814G	58.19	74.00	-15.81	11.78	3	V	201	2.78	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	AV	5.782G	105.05	Inf	-Inf	5.54	3	H	193	2.32	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	AV	11.5734G	44.88	54.00	-9.12	11.82	3	H	15	1.58	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	5.646G	56.74	68.20	-11.46	4.97	3	H	193	2.32	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	5.782G	115.38	Inf	-Inf	5.54	3	H	193	2.32	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	5.958G	58.45	68.20	-9.75	6.08	3	H	193	2.32	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	11.57232G	59.82	74.00	-14.18	11.82	3	H	15	1.58	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	AV	5.788G	104.68	Inf	-Inf	5.57	3	V	186	1.78	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	AV	11.5713G	43.48	54.00	-10.52	11.82	3	V	347	1.50	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	5.57G	57.15	68.20	-11.05	4.70	3	V	186	1.78	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	5.787G	115.27	Inf	-Inf	5.57	3	V	186	1.78	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	5.944G	57.82	68.20	-10.38	6.04	3	V	186	1.78	-
5.8G;VHT20;20;1,(M0);2;5785;M;TX	Pass	PK	11.57034G	57.32	74.00	-16.68	11.82	3	V	347	1.50	-

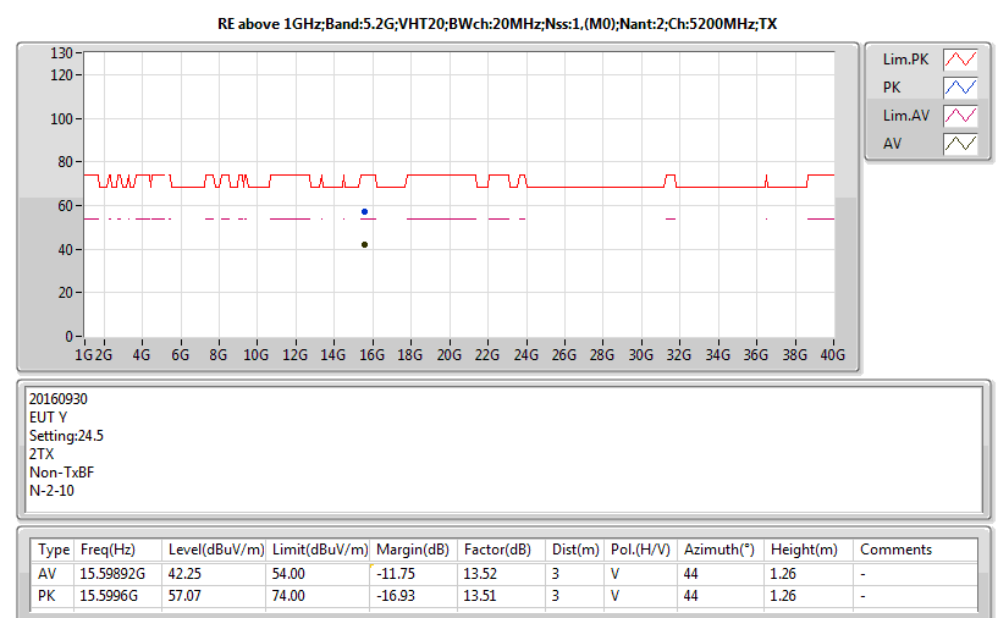
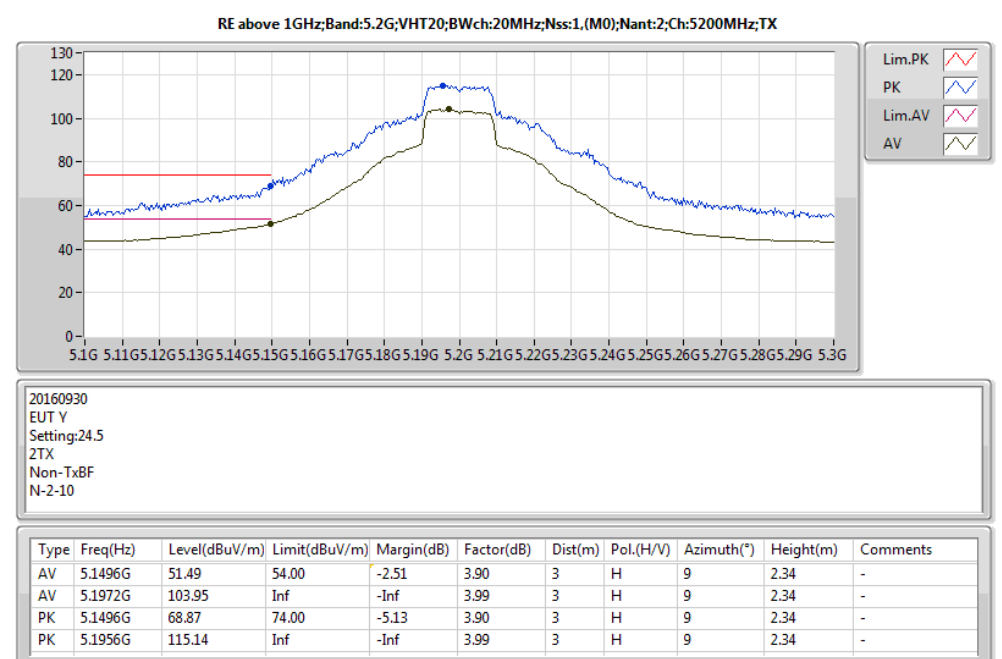
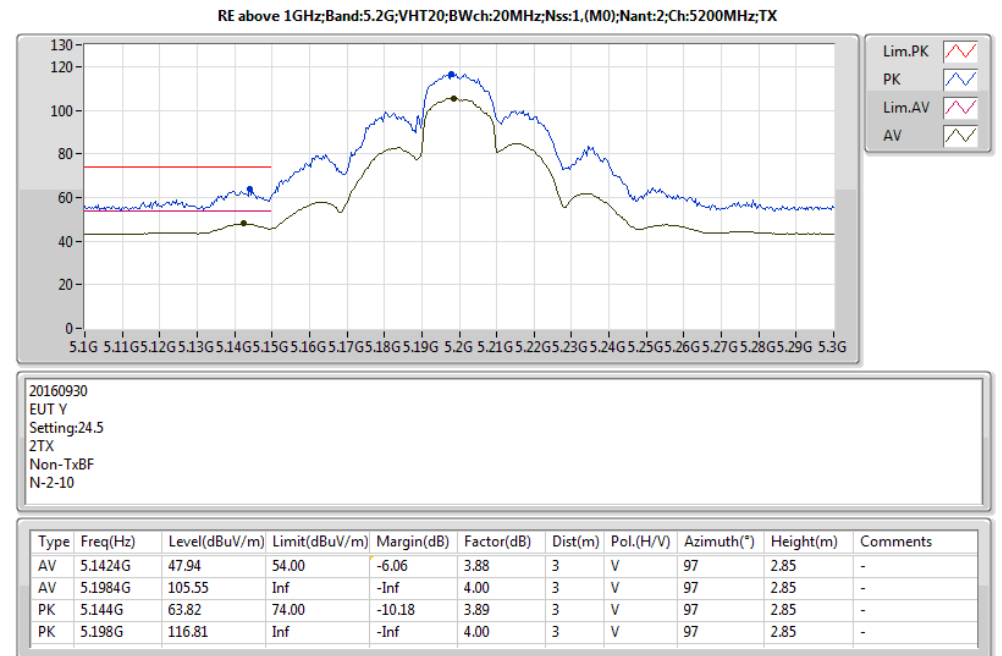
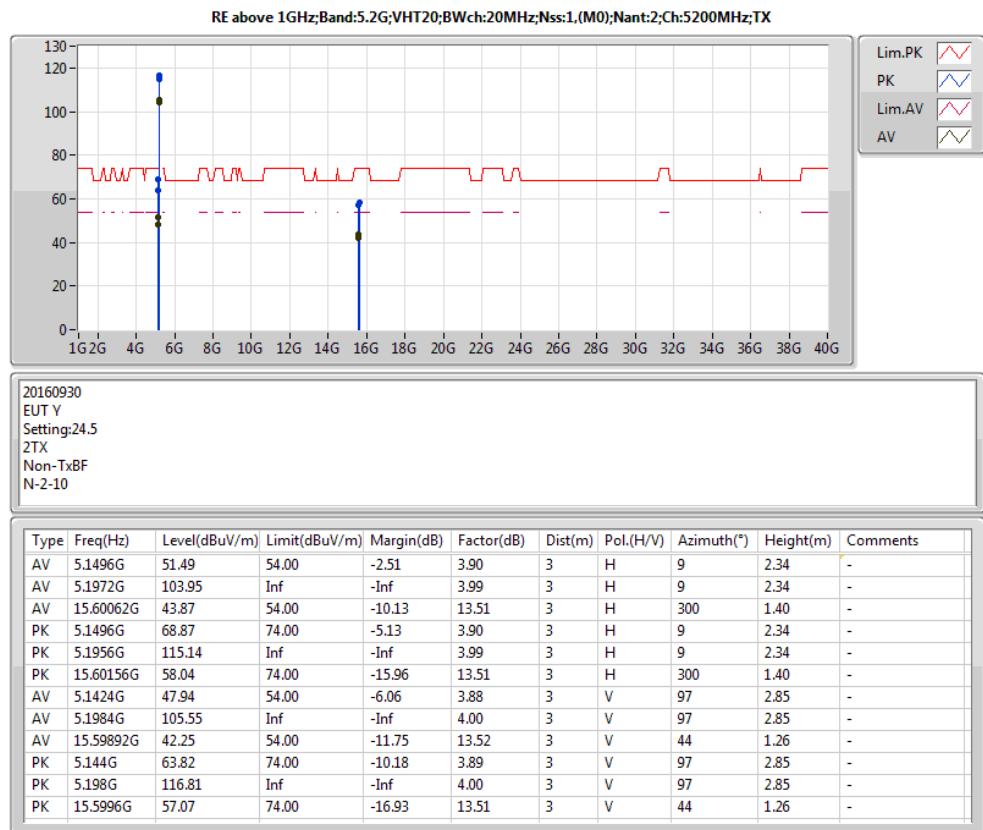
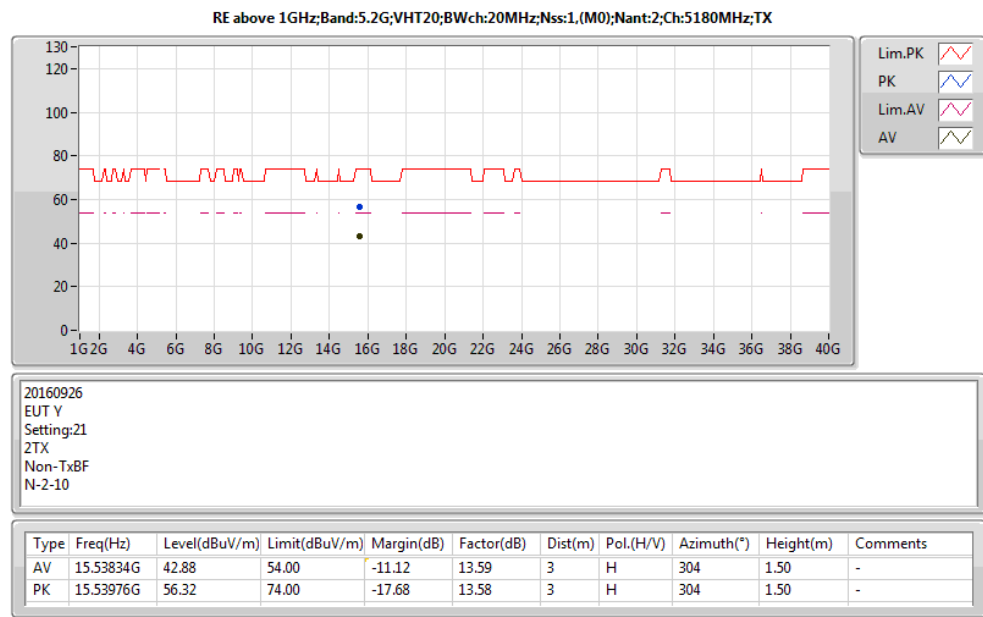
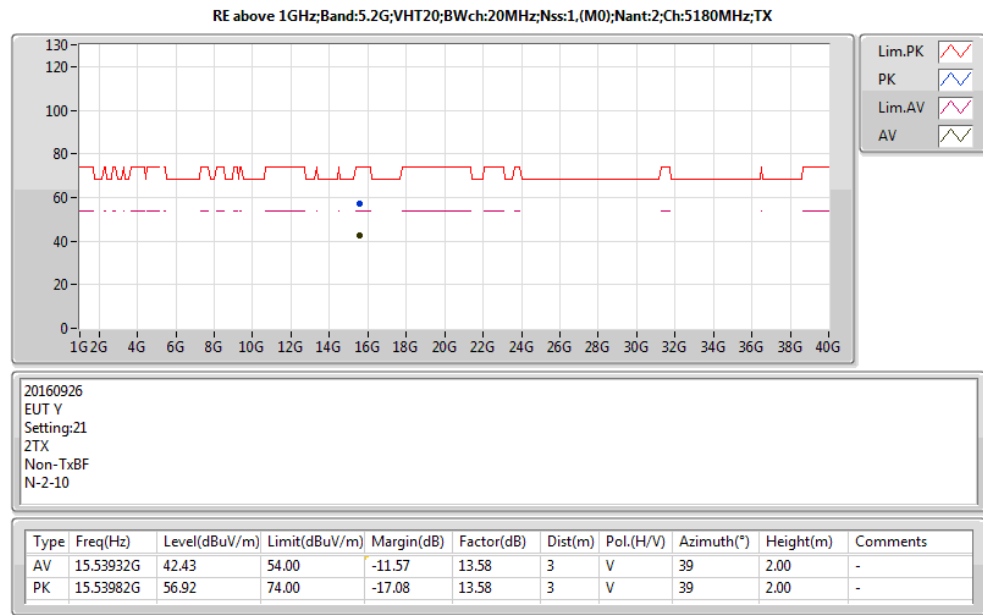


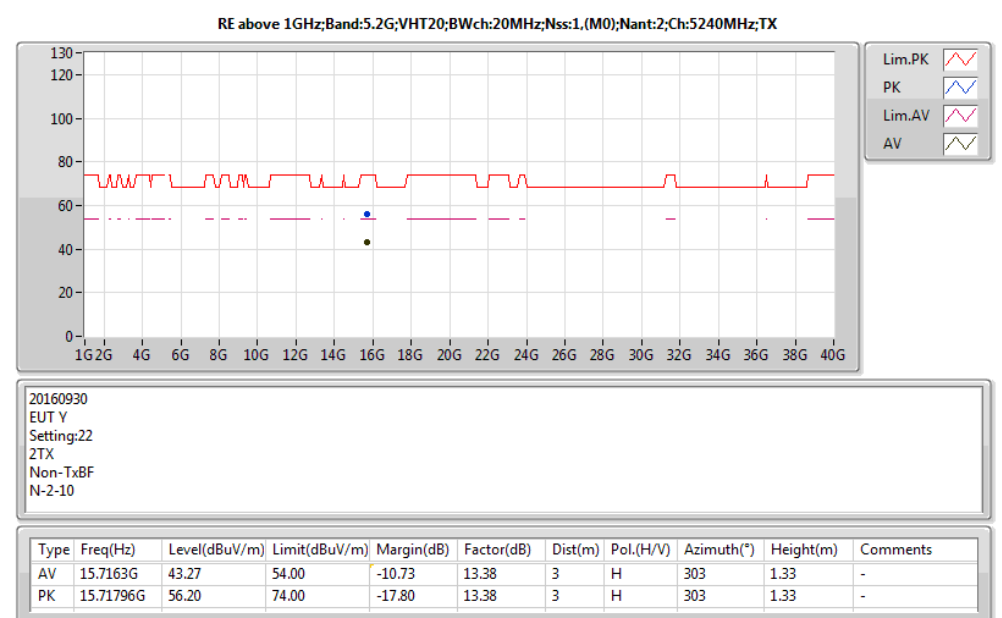
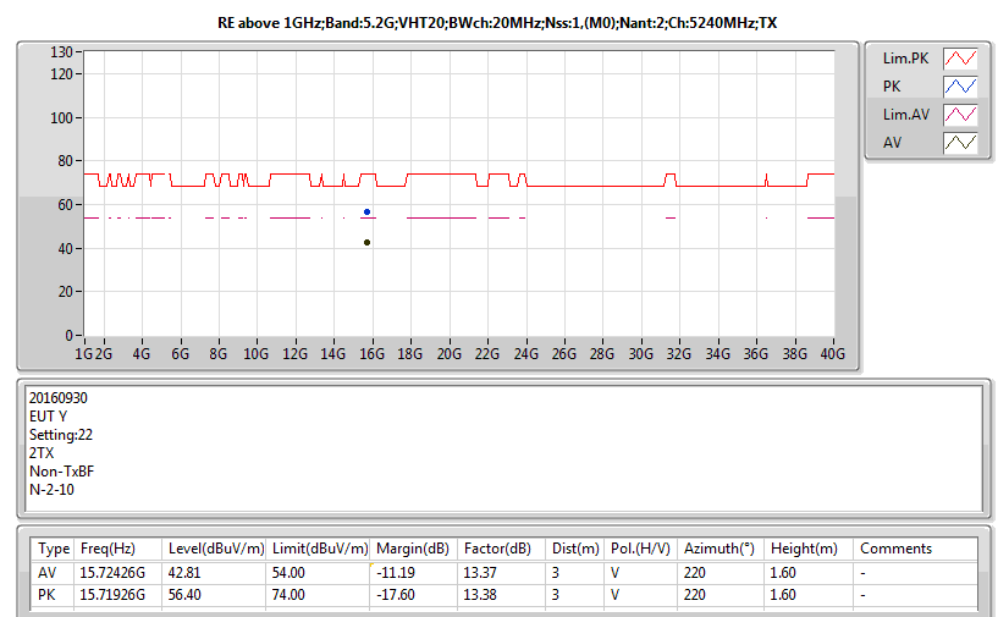
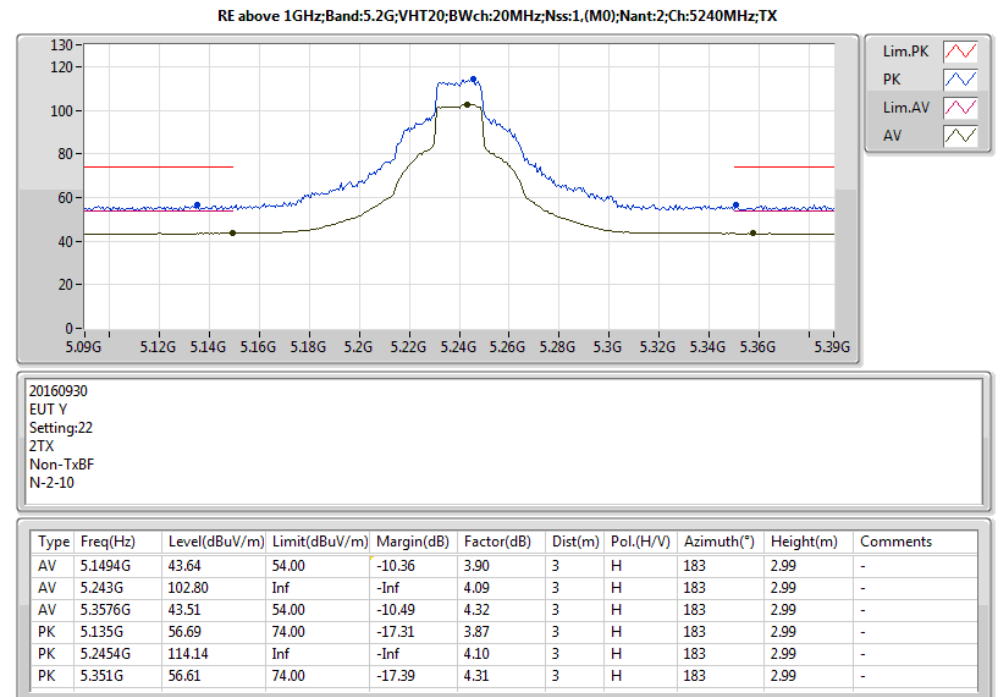
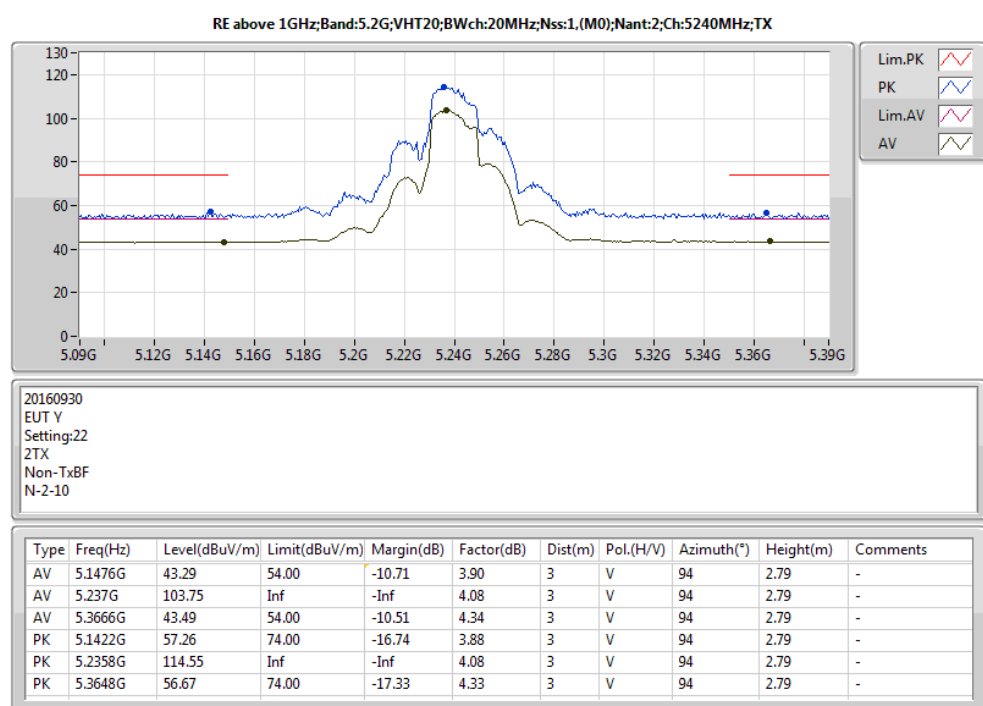
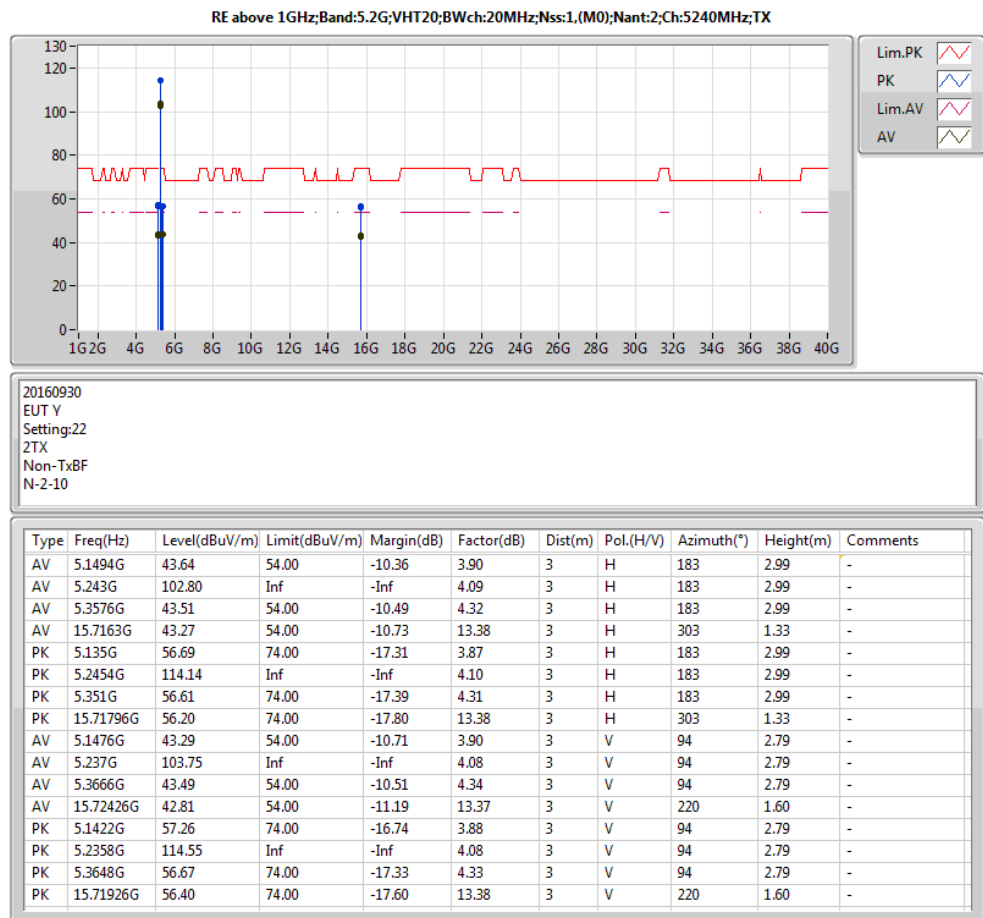
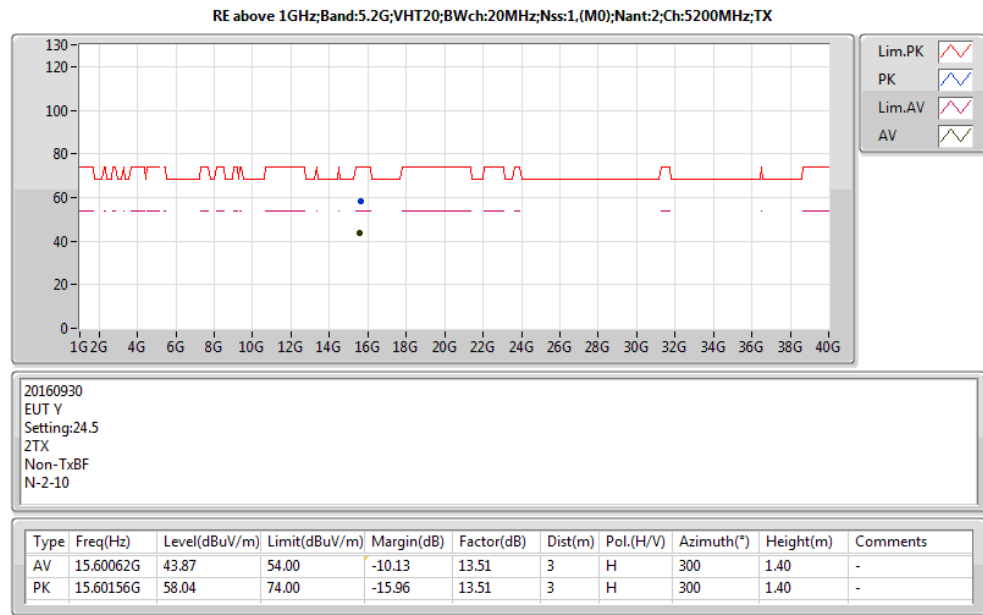
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	AV	5.818G	103.65	Inf	-Inf	5.67	3	H	334	2.26	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	AV	11.65286G	44.76	54.00	-9.24	11.87	3	H	15	1.50	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	5.582G	57.53	68.20	-10.67	4.73	3	H	334	2.26	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	5.817G	114.53	Inf	-Inf	5.67	3	H	334	2.26	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	5.928G	58.99	68.20	-9.21	5.99	3	H	334	2.26	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	11.65254G	58.43	74.00	-15.57	11.87	3	H	15	1.50	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	AV	5.822G	104.44	Inf	-Inf	5.68	3	V	189	1.50	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	AV	11.64986G	43.73	54.00	-10.27	11.86	3	V	203	2.68	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	5.62G	57.20	68.20	-11.00	4.86	3	V	189	1.50	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	5.826G	115.15	Inf	-Inf	5.70	3	V	189	1.50	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	5.983G	58.16	68.20	-10.04	6.15	3	V	189	1.50	-
5.8G;VHT20;20;1,(M0);2;5825;H;TX	Pass	PK	11.65258G	57.88	74.00	-16.12	11.87	3	V	203	2.68	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	AV	5.749G	101.92	Inf	-Inf	5.41	3	H	336	2.90	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	AV	11.50952G	42.72	54.00	-11.28	11.79	3	H	334	1.50	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	5.651G	65.20	68.94	-3.74	4.99	3	H	336	2.90	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	5.75G	112.36	Inf	-Inf	5.41	3	H	336	2.90	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	5.976G	59.94	68.20	-8.26	6.13	3	H	336	2.90	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	11.5063G	55.62	74.00	-18.38	11.79	3	H	334	1.50	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	AV	5.76G	102.30	Inf	-Inf	5.45	3	V	182	1.68	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	AV	11.51402G	41.48	54.00	-12.52	11.79	3	V	345	1.56	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	5.647G	62.13	68.20	-6.07	4.98	3	V	182	1.68	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	5.762G	112.68	Inf	-Inf	5.46	3	V	182	1.68	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	5.949G	58.29	68.20	-9.91	6.05	3	V	182	1.68	-
5.8G;VHT40;40;1,(M0);2;5755;L;TX	Pass	PK	11.51374G	55.19	74.00	-18.81	11.79	3	V	345	1.56	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	AV	5.792G	102.25	Inf	-Inf	5.59	3	H	188	2.55	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	AV	11.58996G	43.70	54.00	-10.30	11.83	3	H	15	1.54	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	5.637G	60.02	68.20	-8.18	4.94	3	H	188	2.55	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	5.794G	112.62	Inf	-Inf	5.59	3	H	188	2.55	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	5.933G	63.04	68.20	-5.16	6.01	3	H	188	2.55	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	11.59382G	57.02	74.00	-16.98	11.83	3	H	15	1.54	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	AV	5.797G	101.98	Inf	-Inf	5.61	3	V	185	1.60	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	AV	11.59014G	42.51	54.00	-11.49	11.83	3	V	346	1.39	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	5.563G	57.61	68.20	-10.59	4.68	3	V	185	1.60	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	5.794G	111.92	Inf	-Inf	5.59	3	V	185	1.60	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	5.927G	58.90	68.20	-9.30	5.99	3	V	185	1.60	-
5.8G;VHT40;40;1,(M0);2;5795;H;TX	Pass	PK	11.58964G	55.85	74.00	-18.15	11.83	3	V	346	1.39	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	AV	5.753G	96.11	Inf	-Inf	5.42	3	H	179	2.94	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	AV	11.54964G	41.10	54.00	-12.90	11.81	3	H	15	1.50	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.635G	65.49	68.20	-2.71	4.93	3	H	179	2.94	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.789G	106.68	Inf	-Inf	5.57	3	H	179	2.94	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.931G	67.06	68.20	-1.14	6.00	3	H	179	2.94	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	11.54998G	55.50	74.00	-18.50	11.81	3	H	15	1.50	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	AV	5.793G	96.55	Inf	-Inf	5.59	3	V	190	1.95	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	AV	11.55004G	40.87	54.00	-13.13	11.81	3	V	351	1.38	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.654G	71.06	71.16	-0.10	5.01	3	V	190	1.95	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.754G	106.62	Inf	-Inf	5.43	3	V	190	1.95	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	5.93G	61.35	68.20	-6.85	6.00	3	V	190	1.95	-
5.8G;VHT80;80;1,(M0);2;5775;S;TX	Pass	PK	11.54572G	54.19	74.00	-19.81	11.81	3	V	351	1.38	-

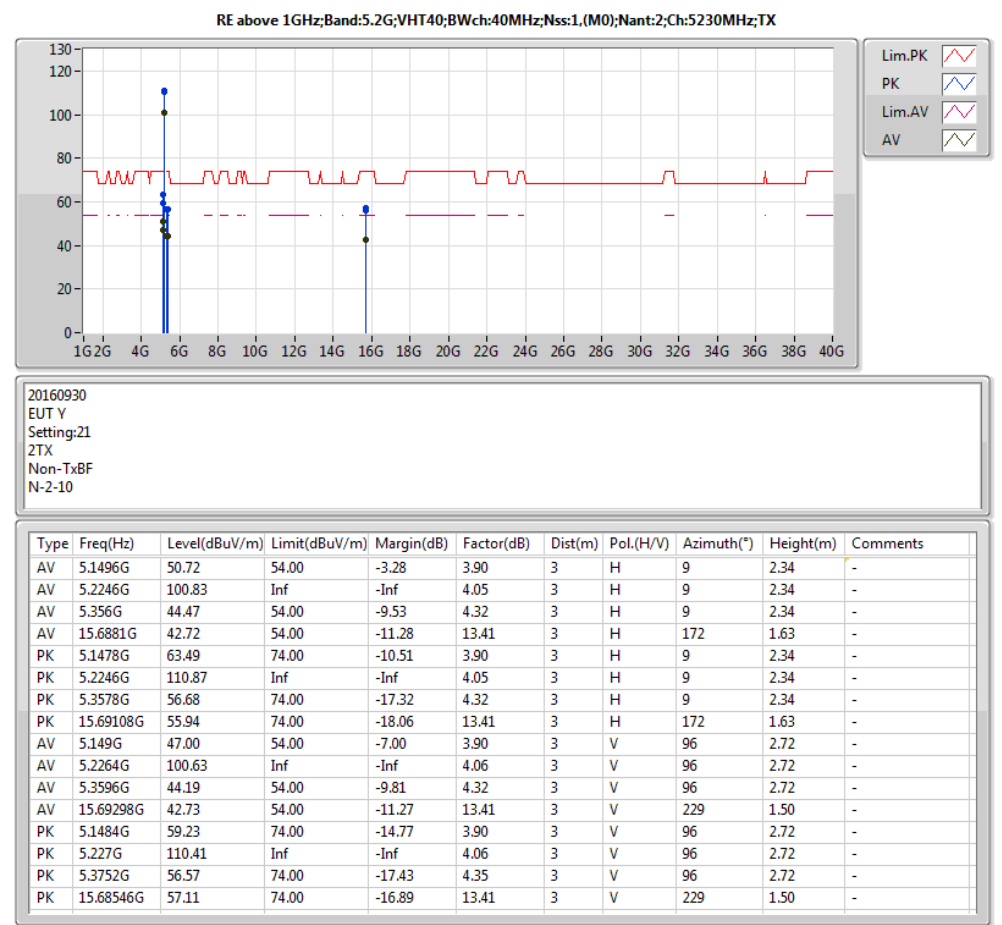
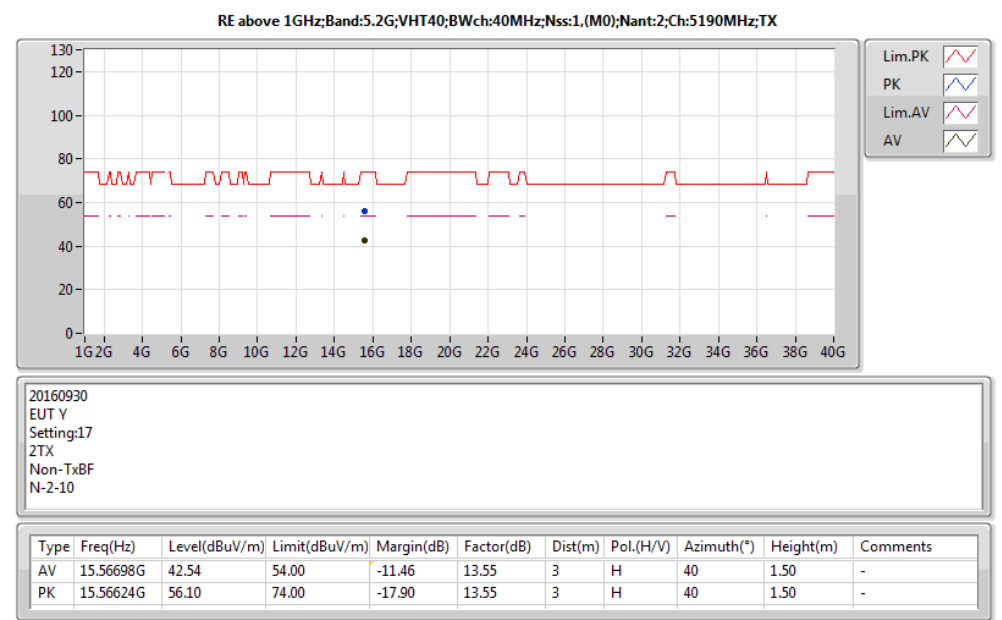
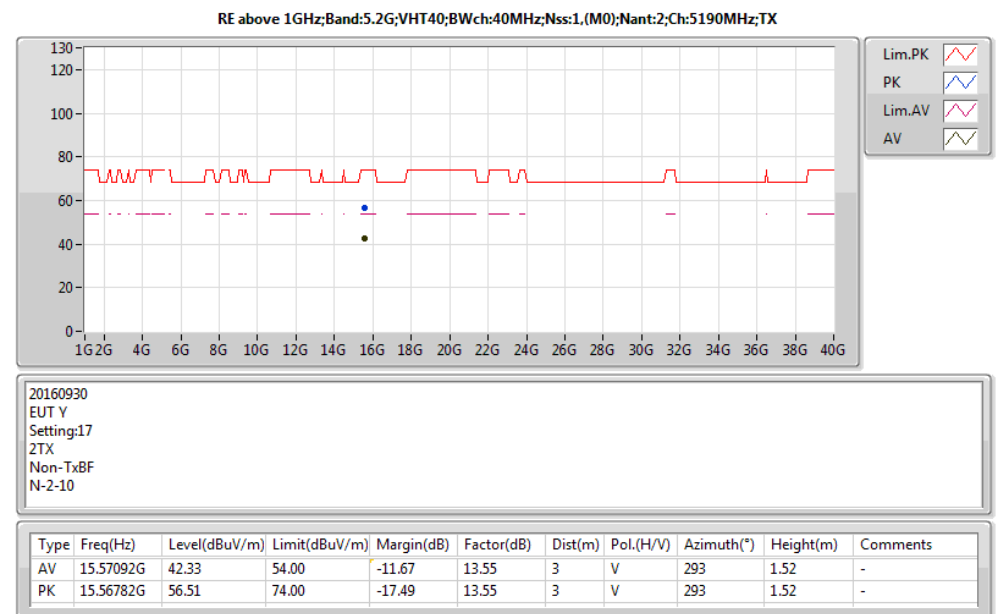
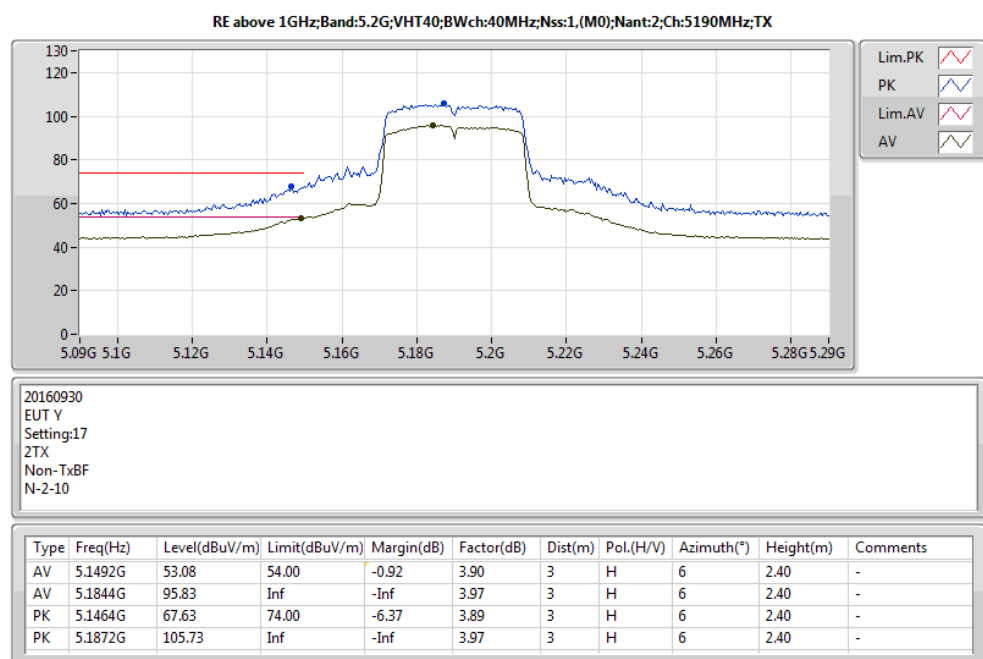
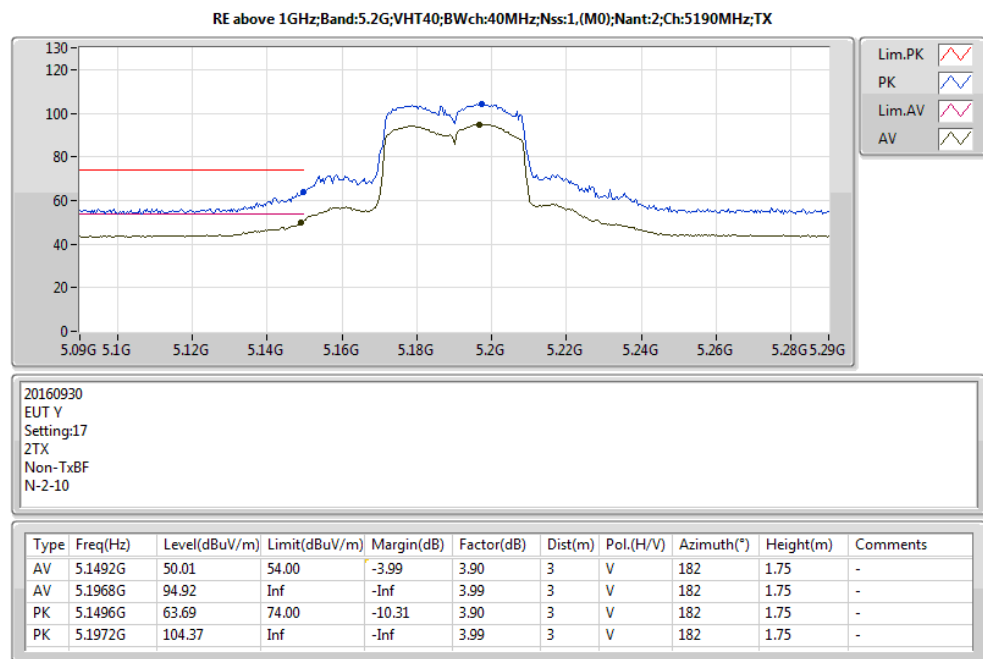
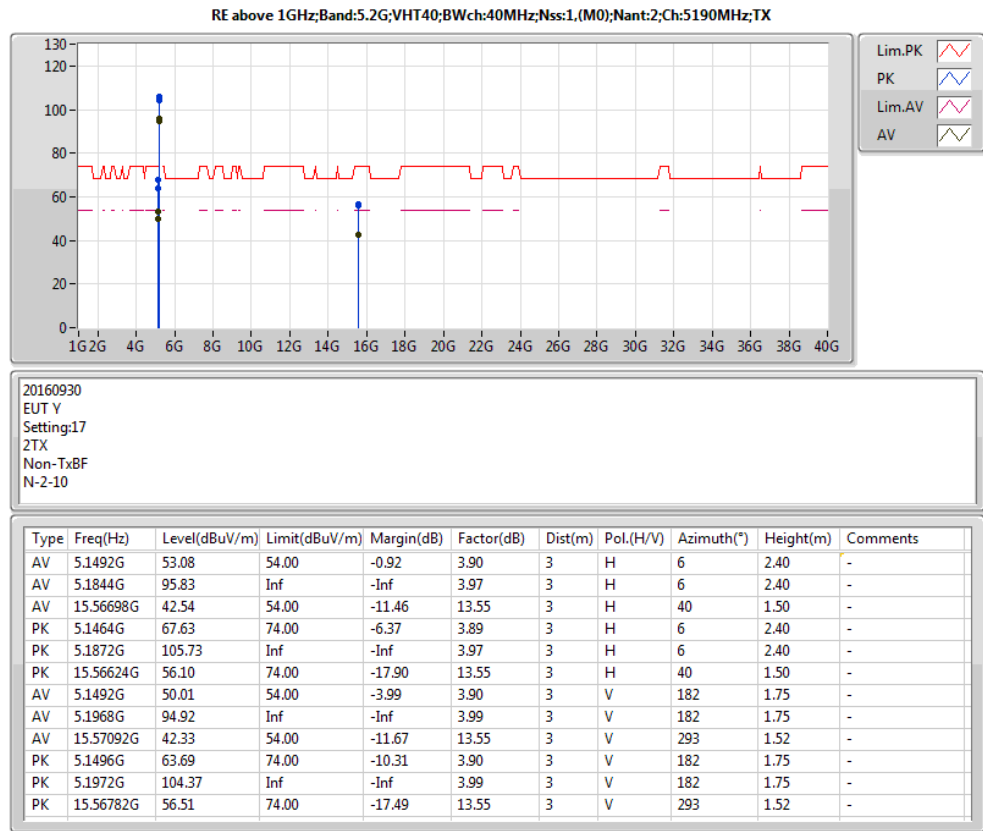


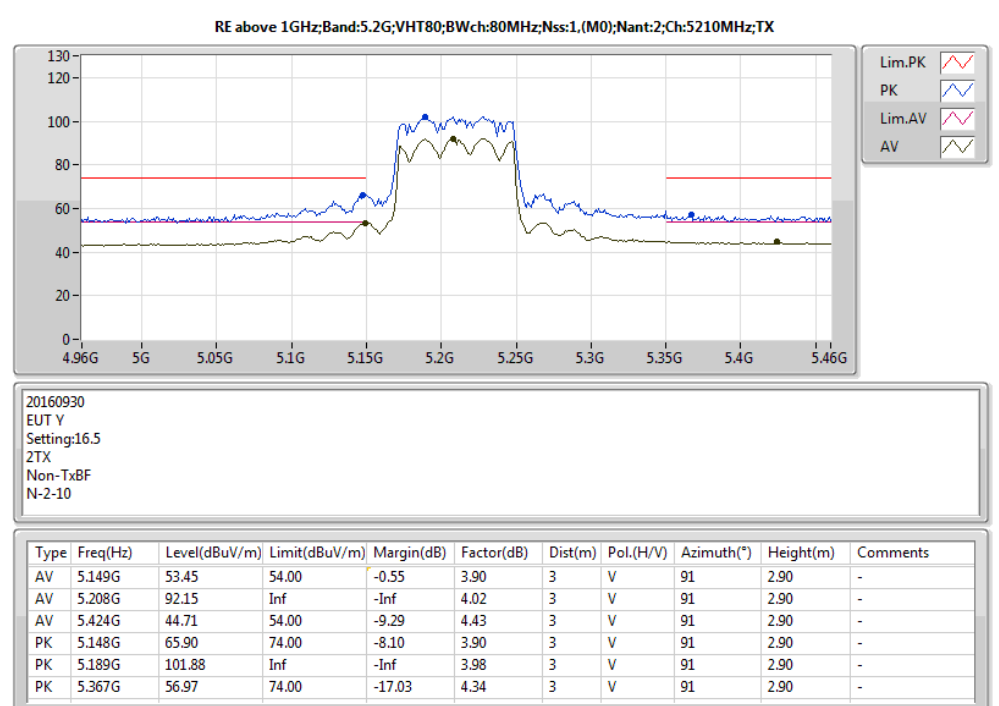
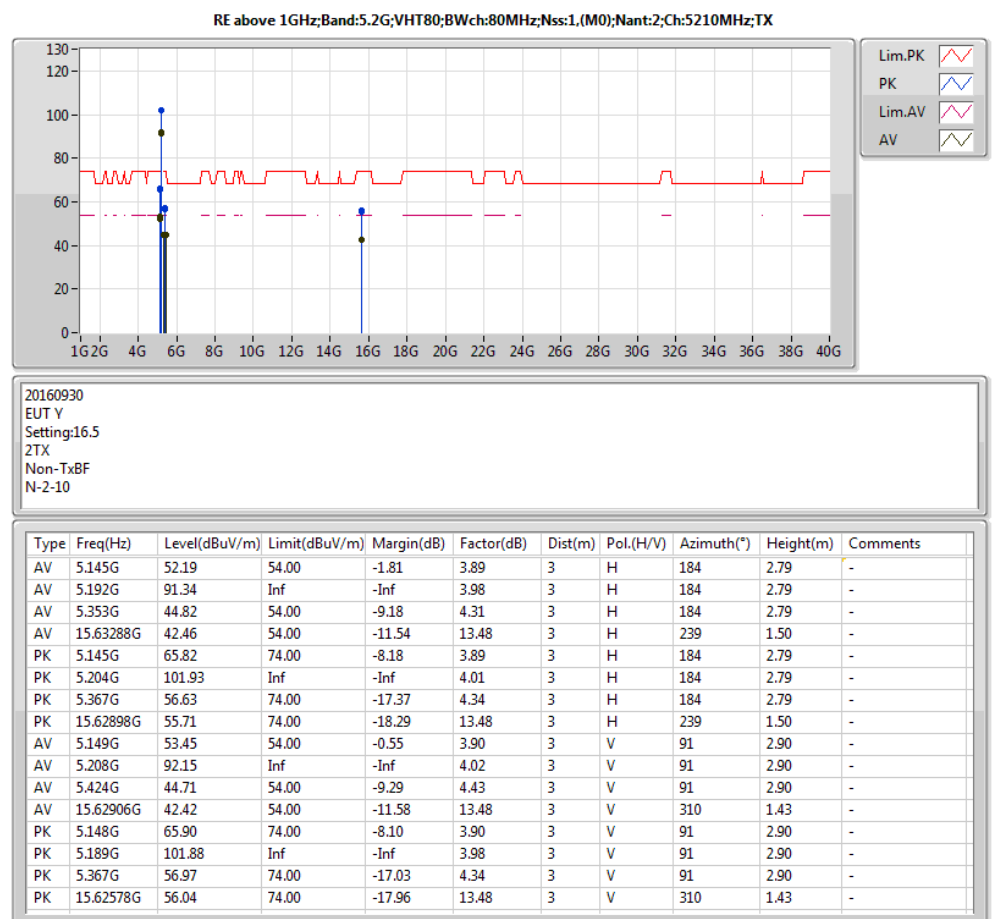
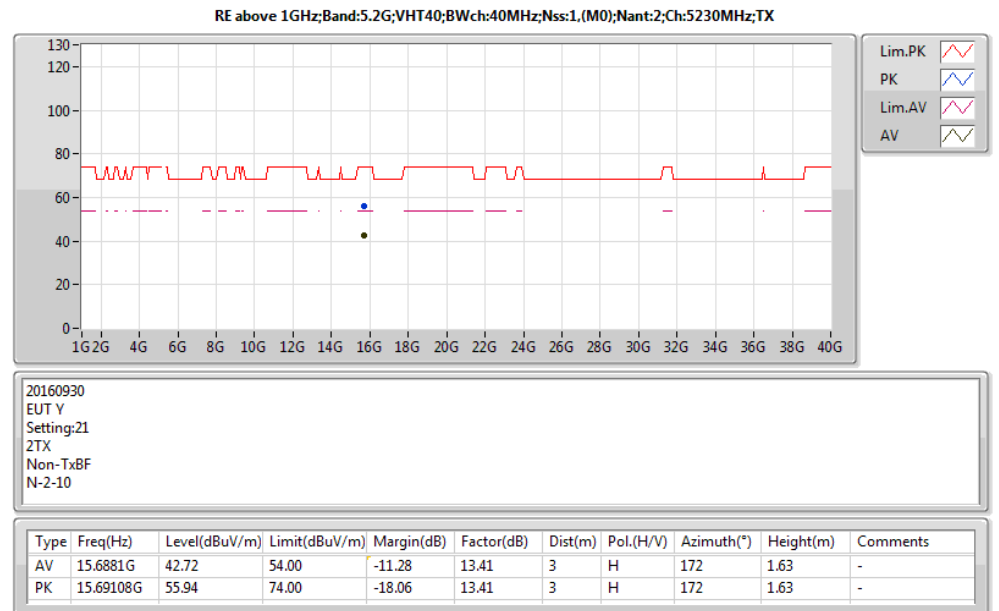
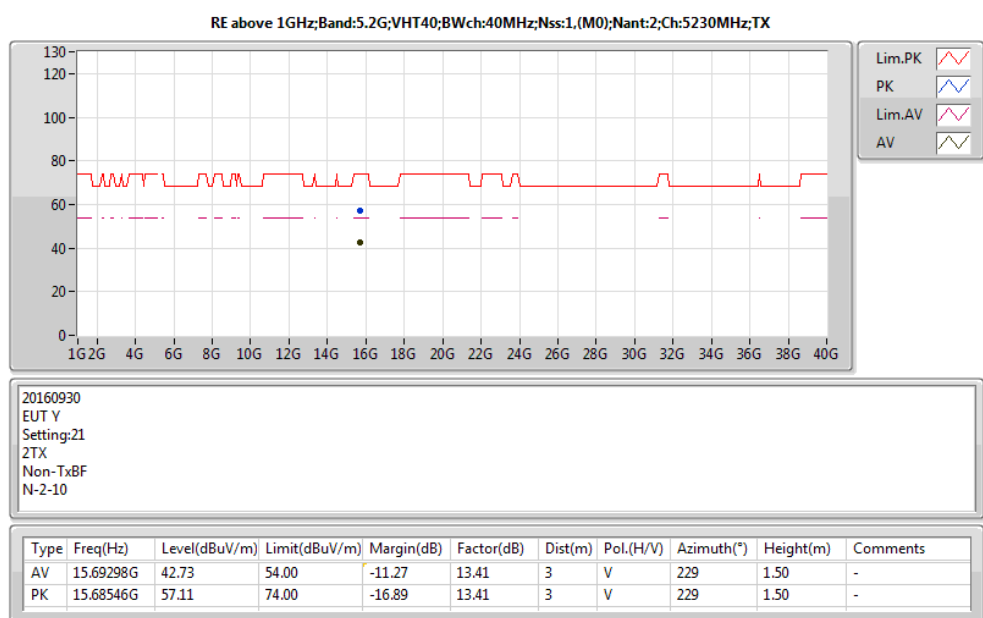
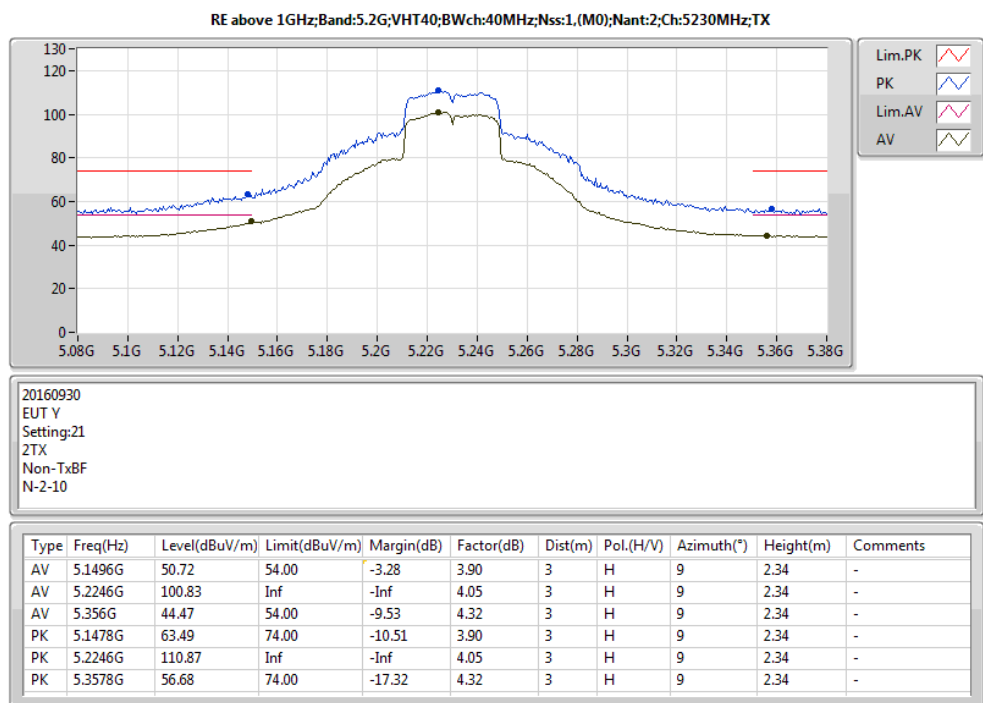
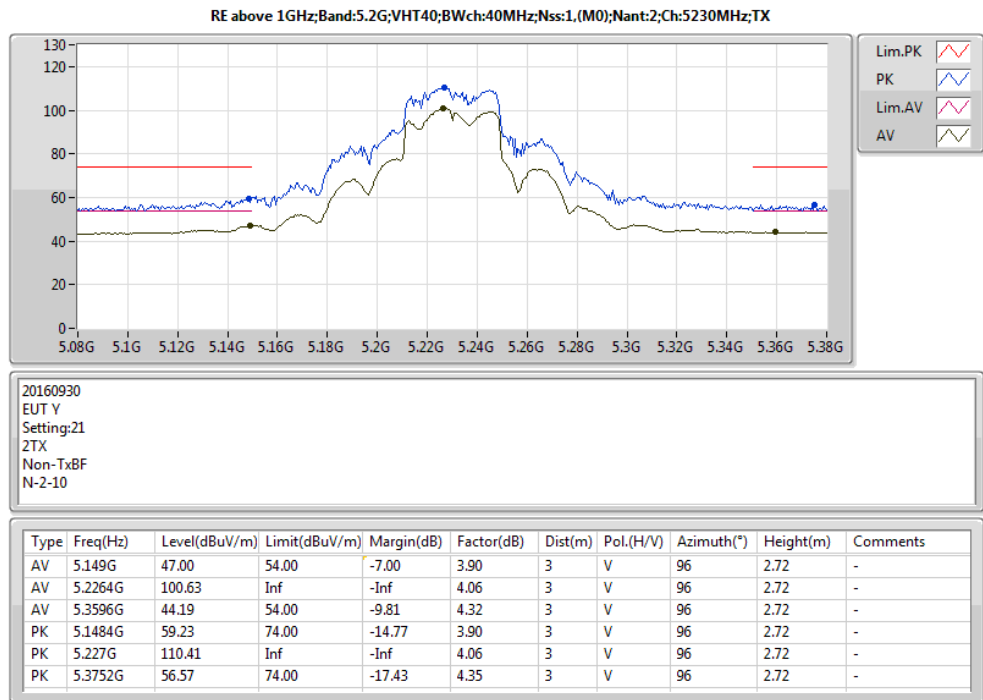


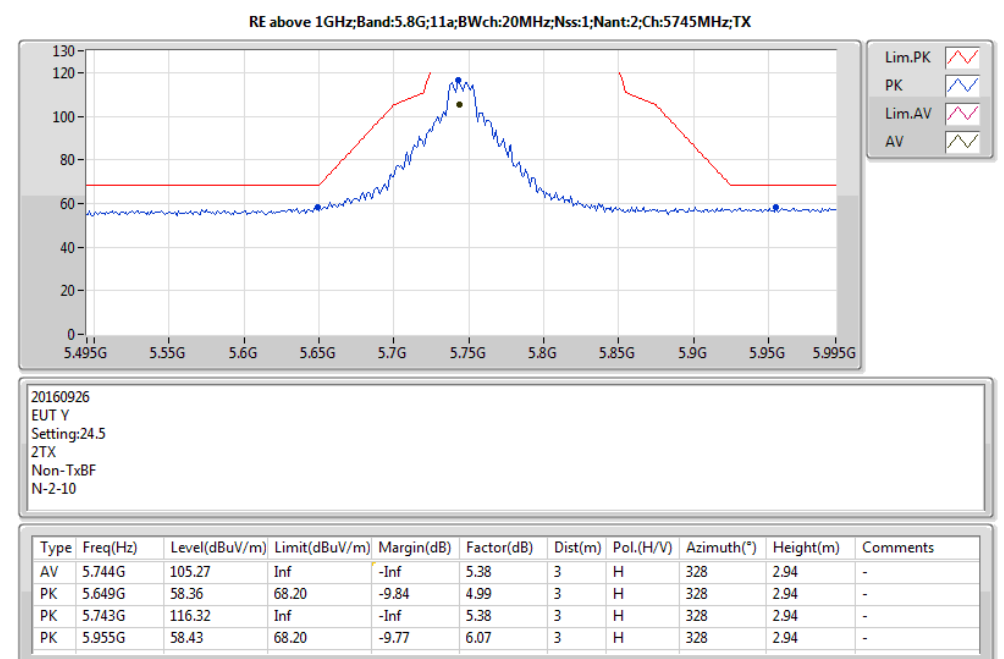
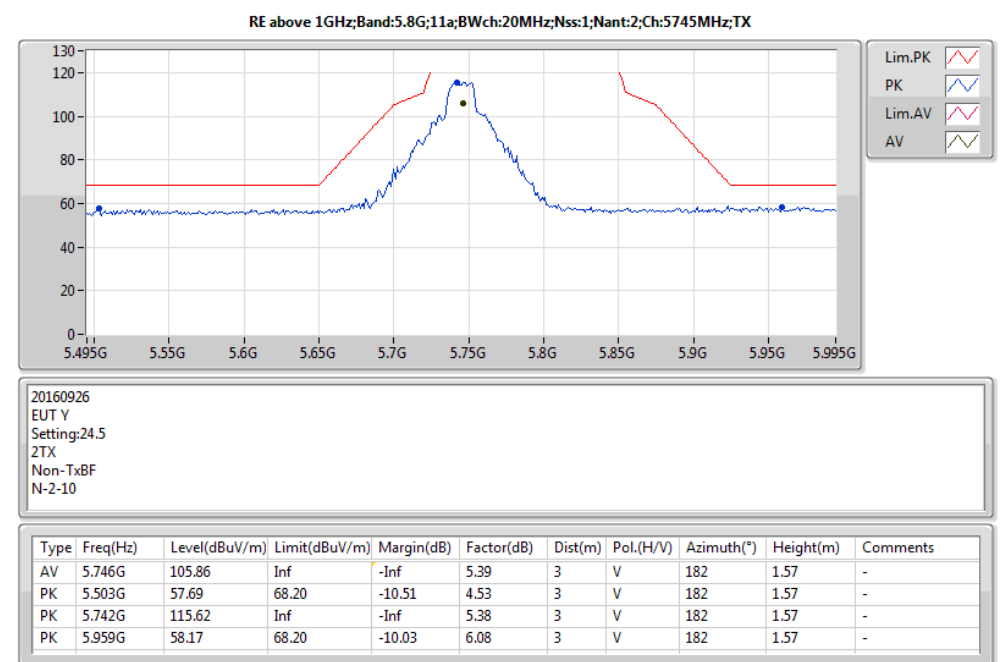
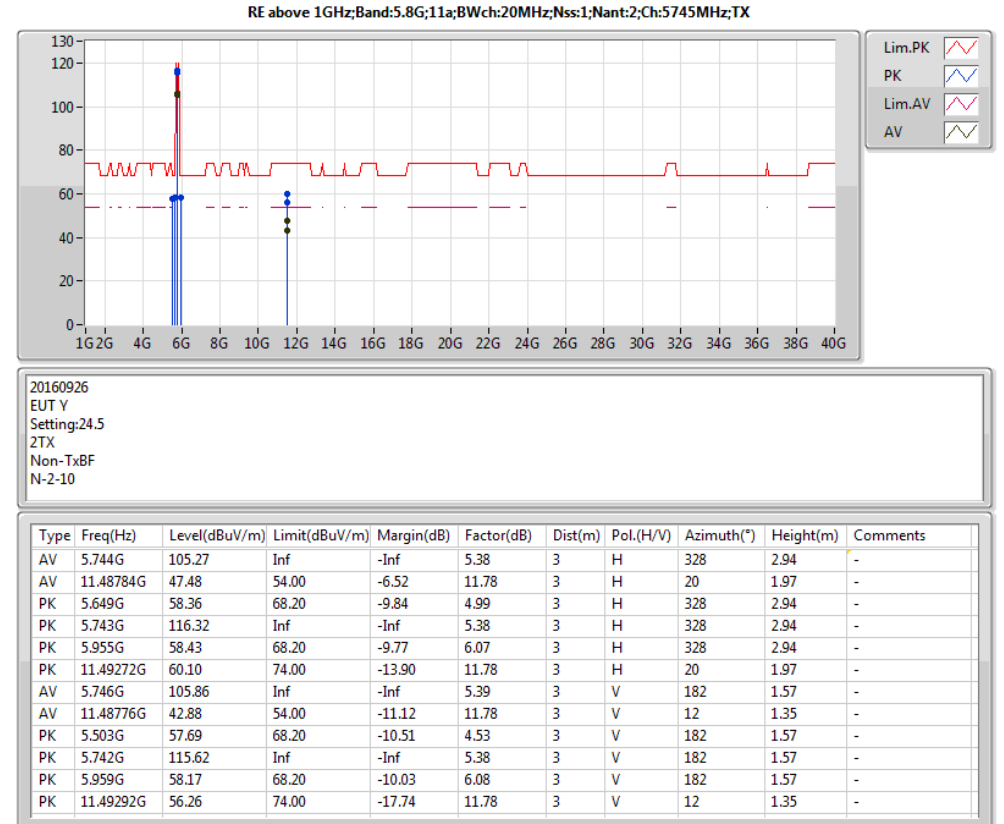
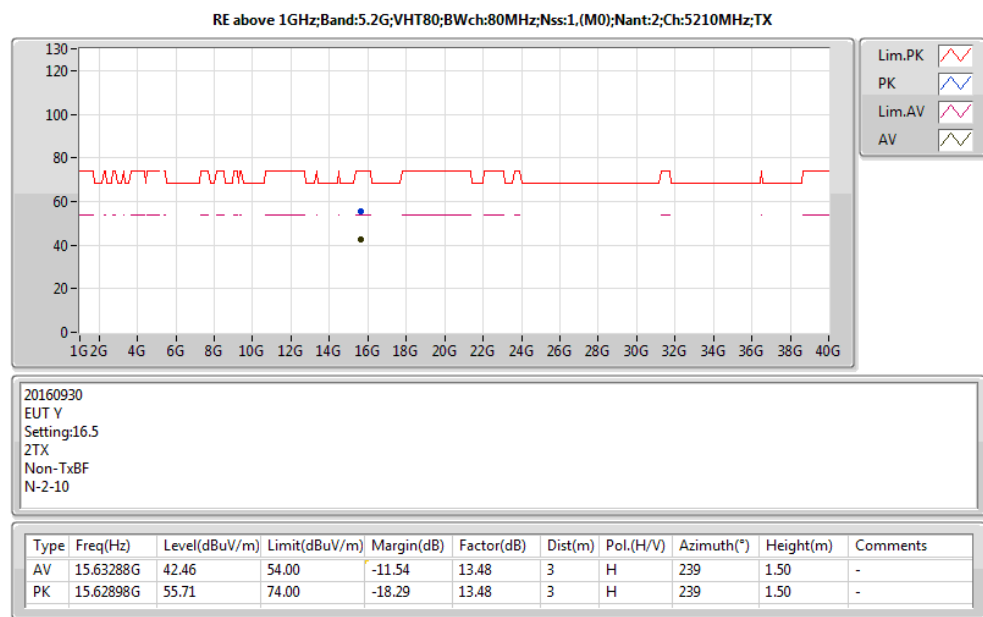
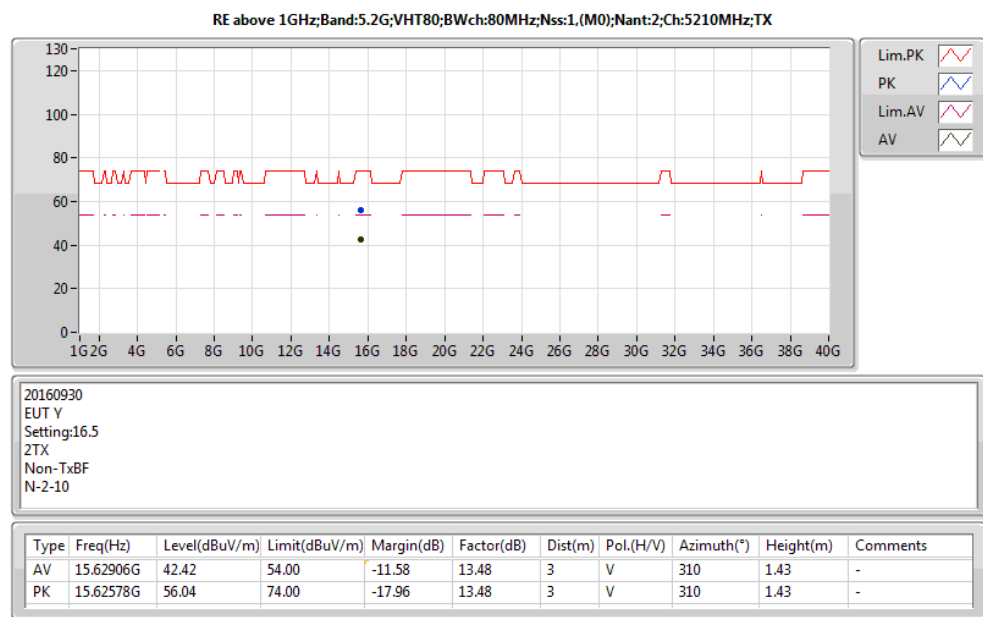
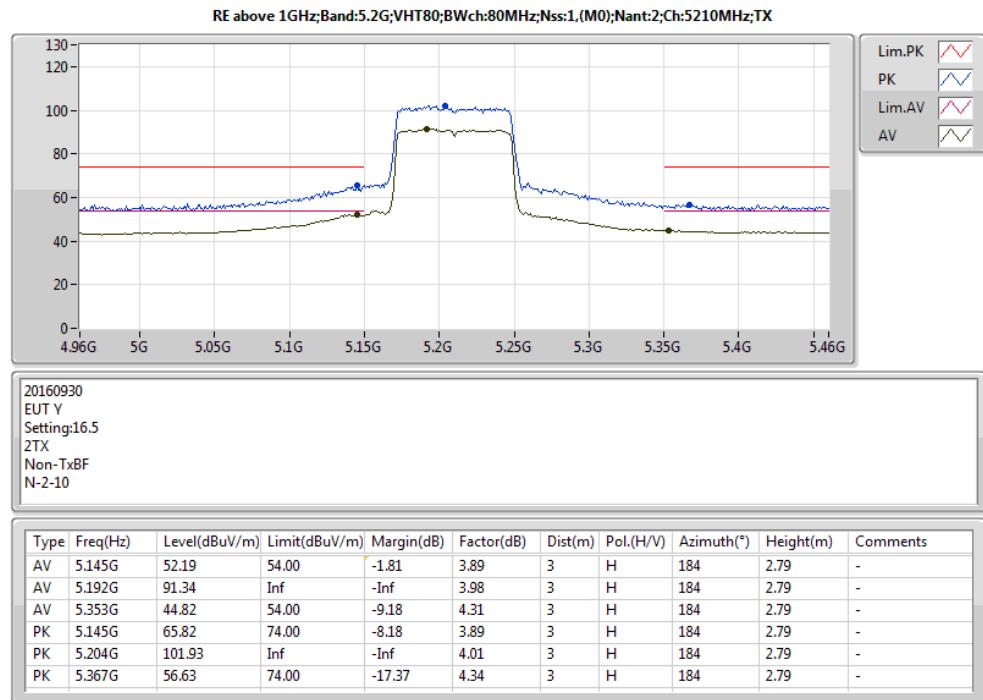


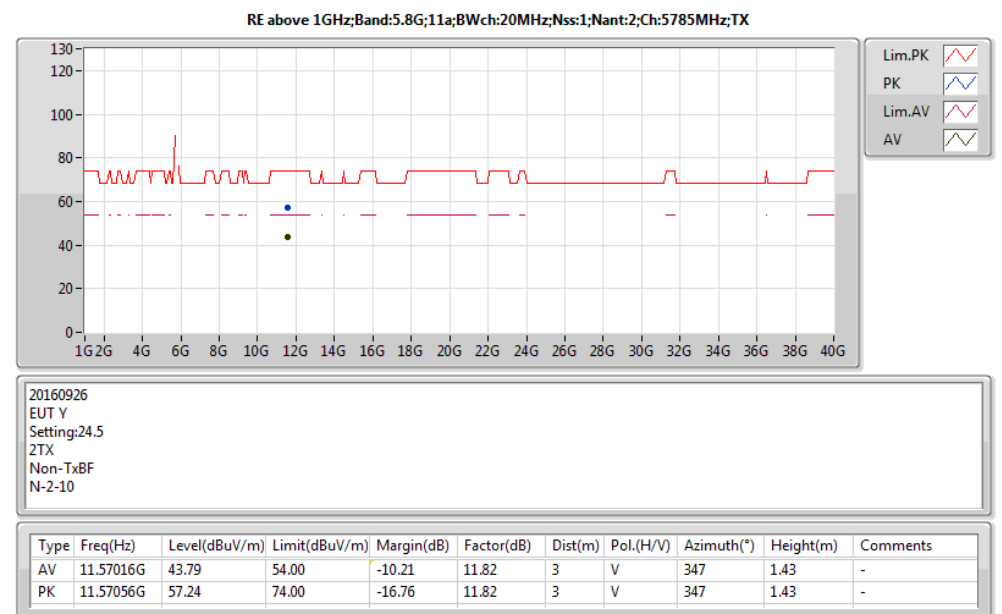
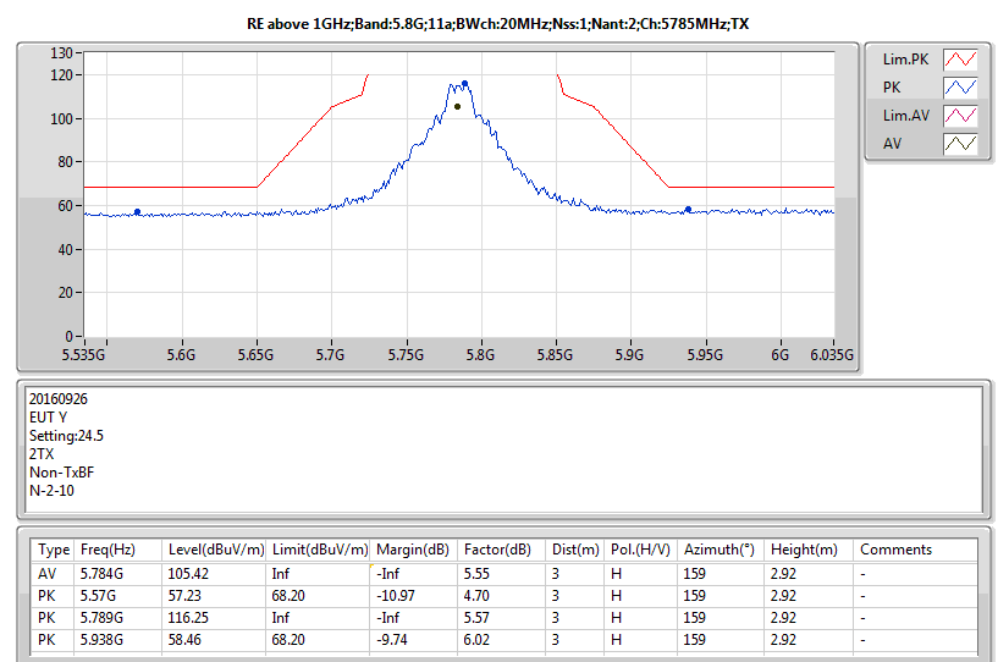
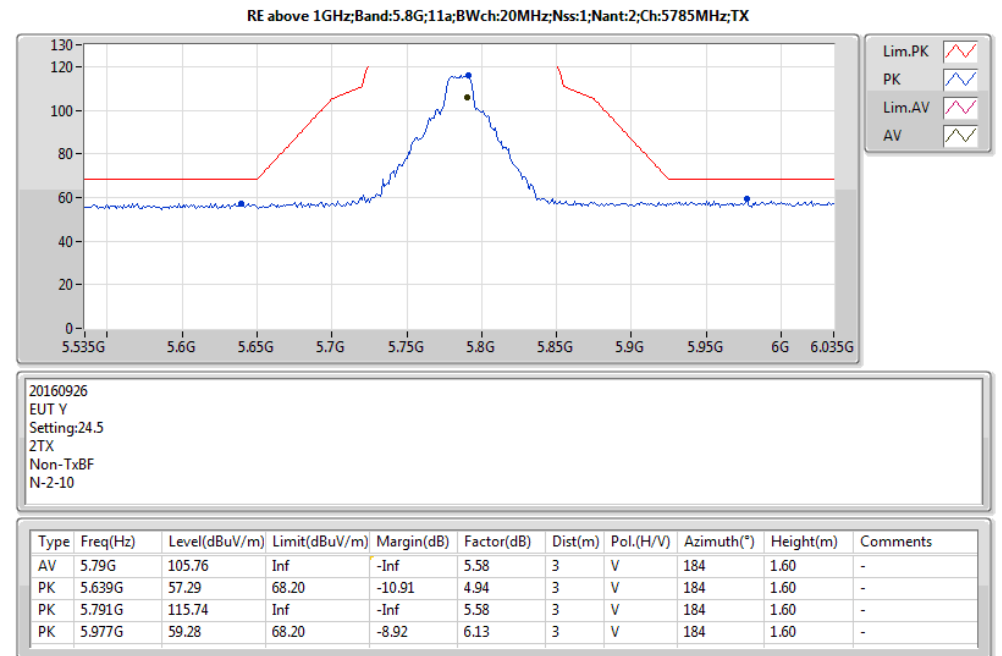
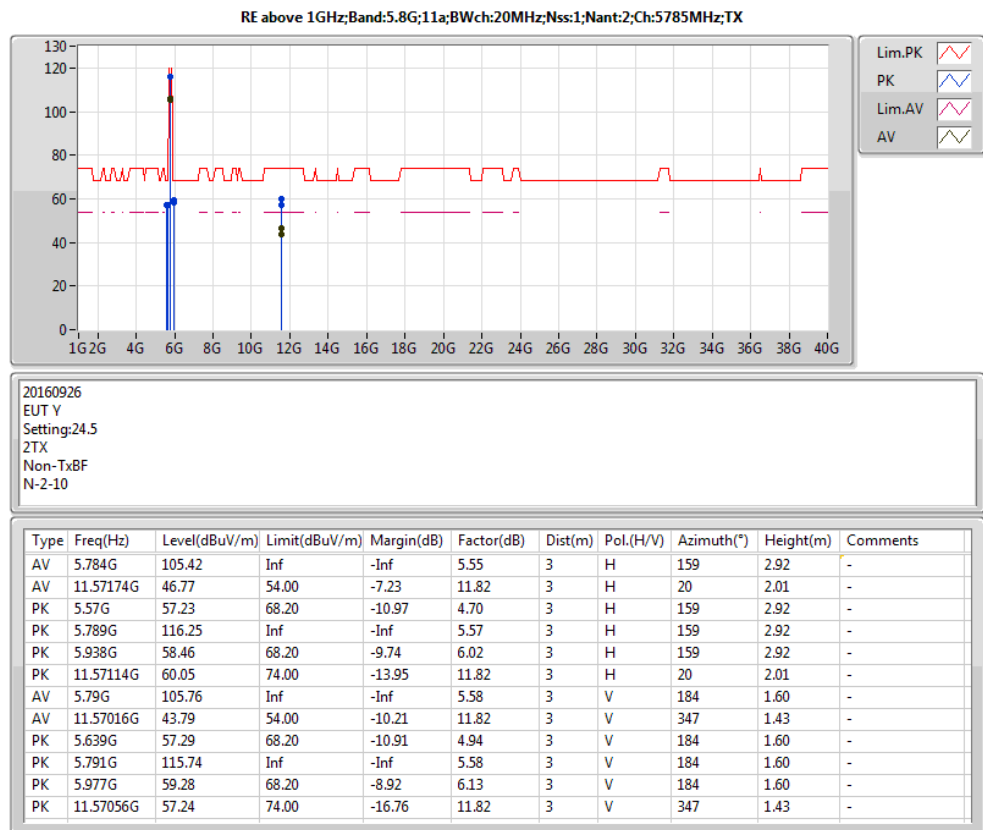
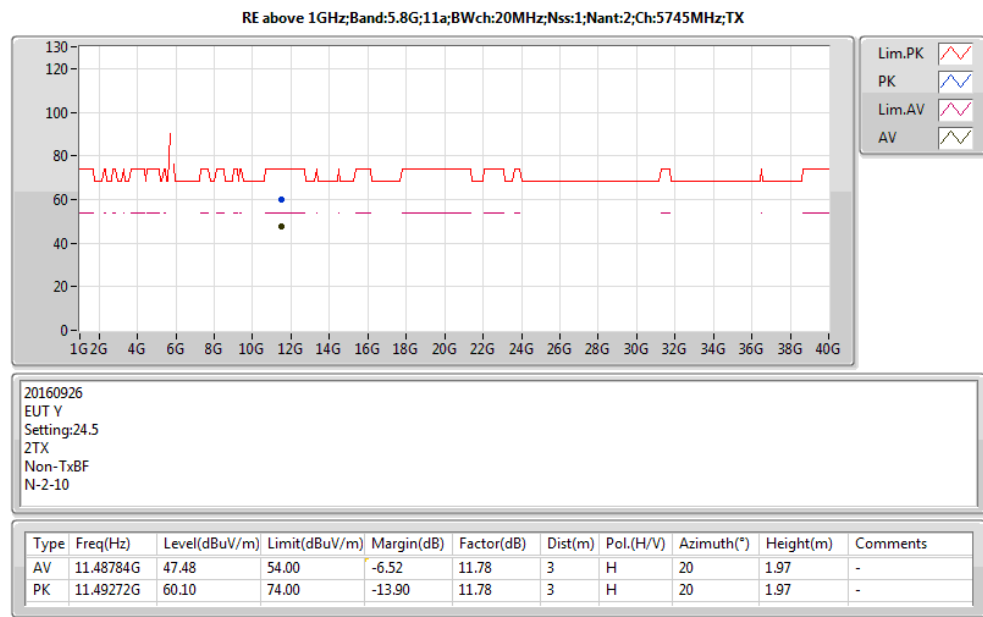
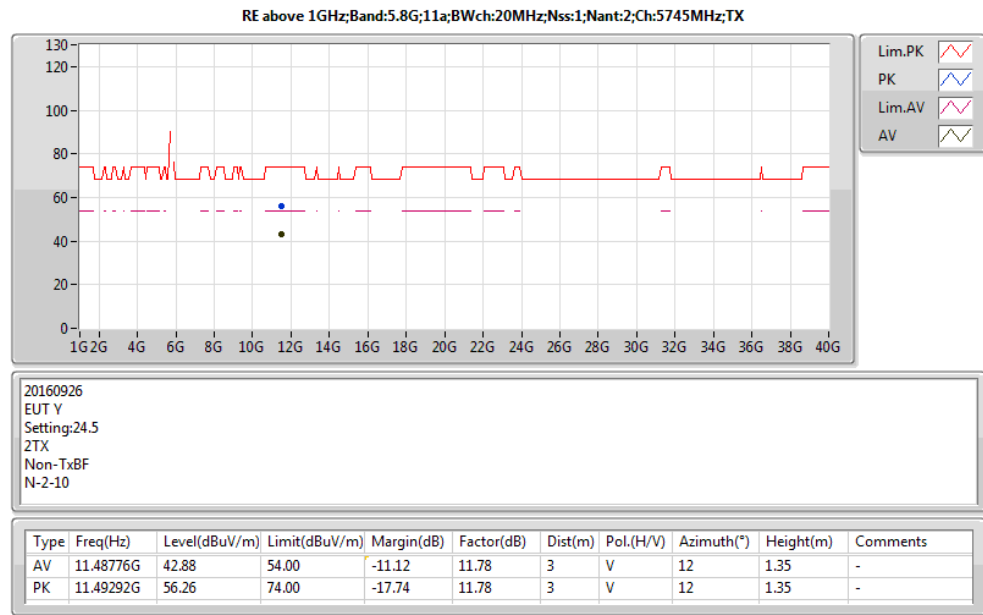


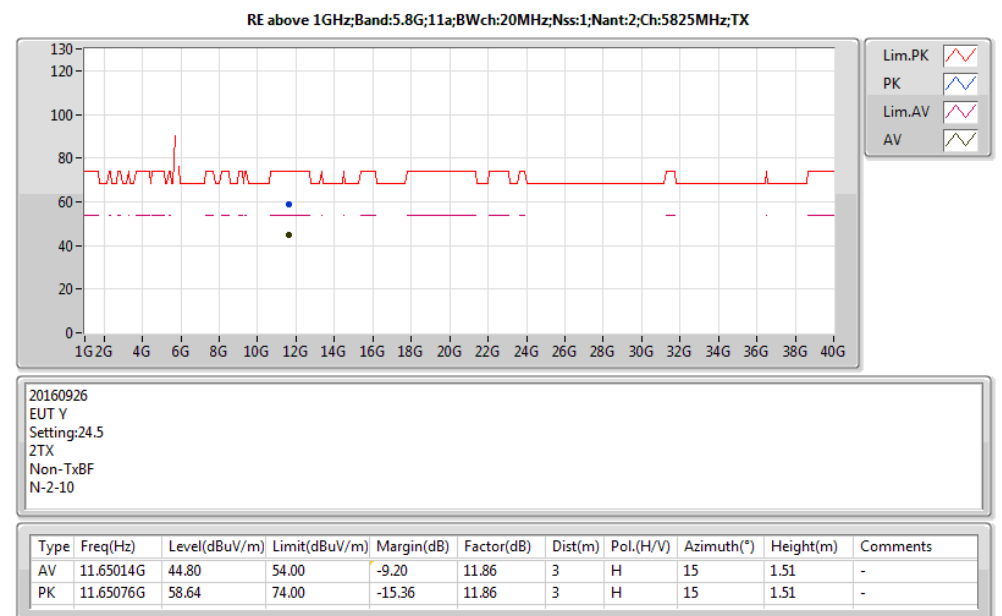
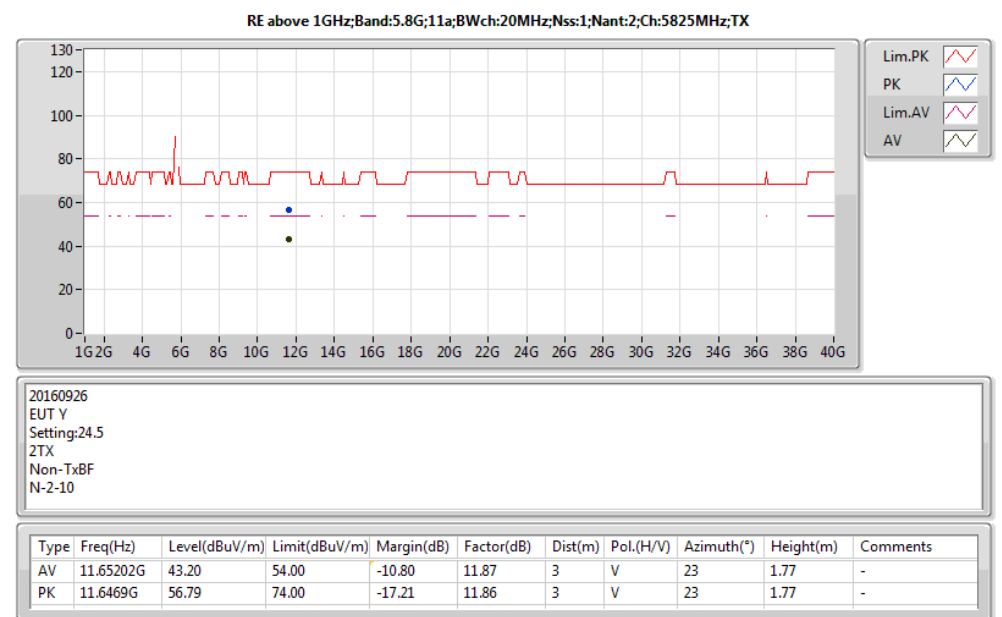
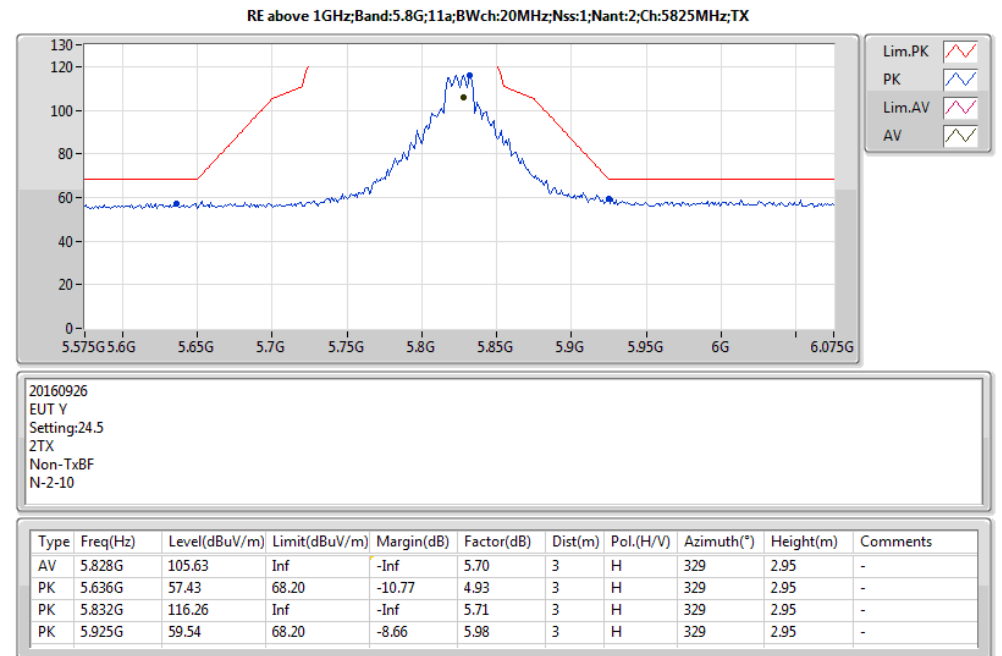
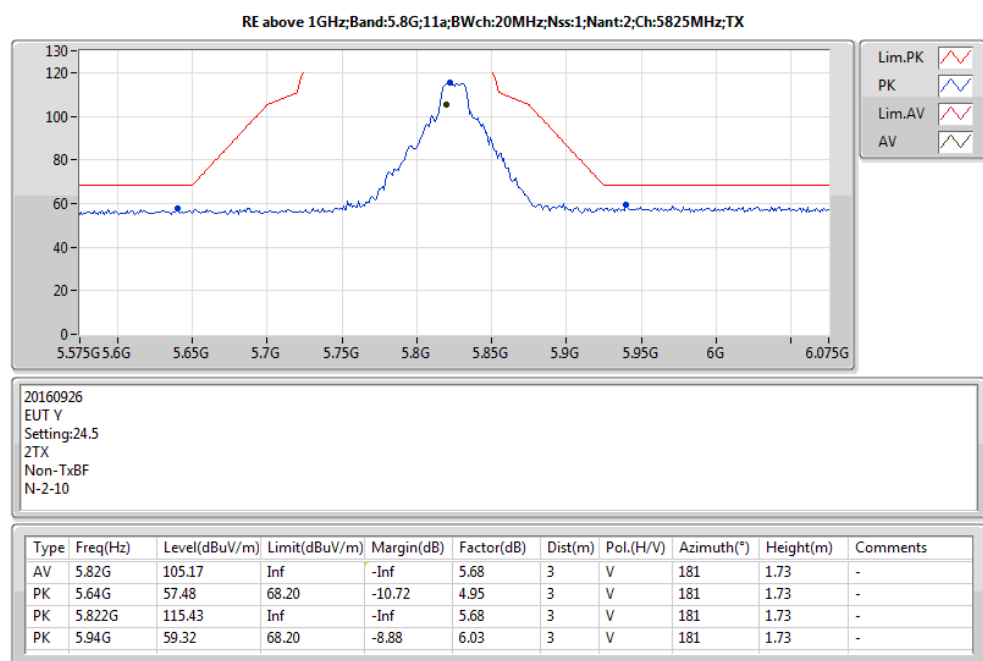
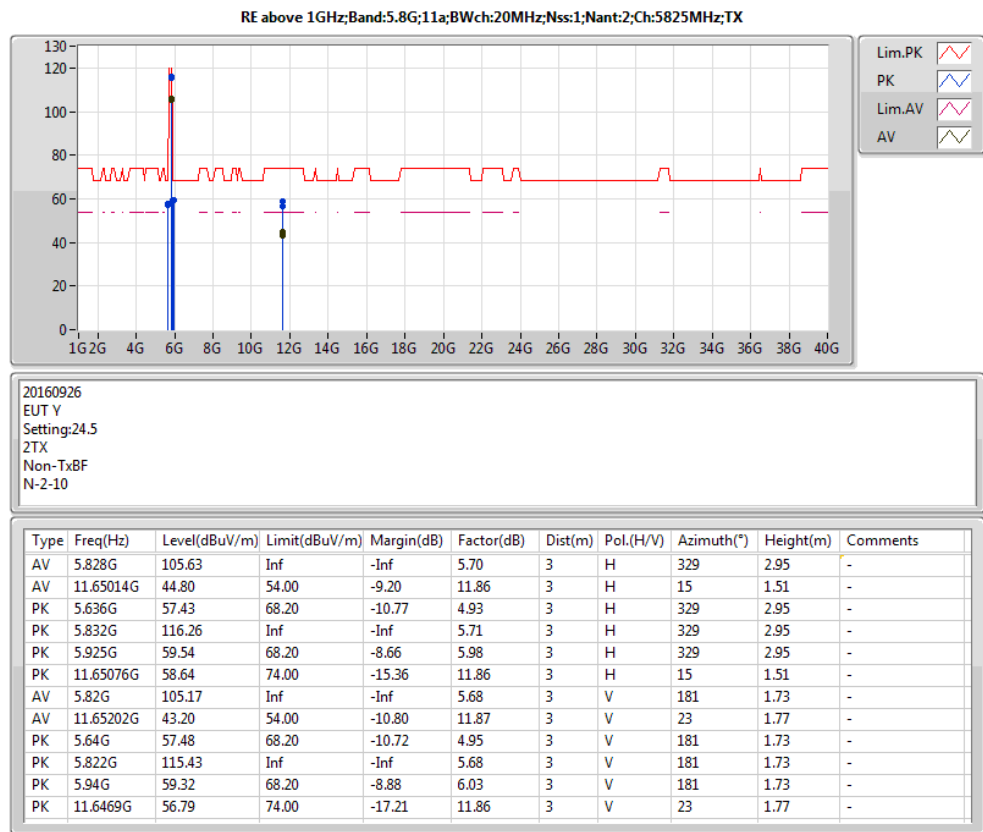
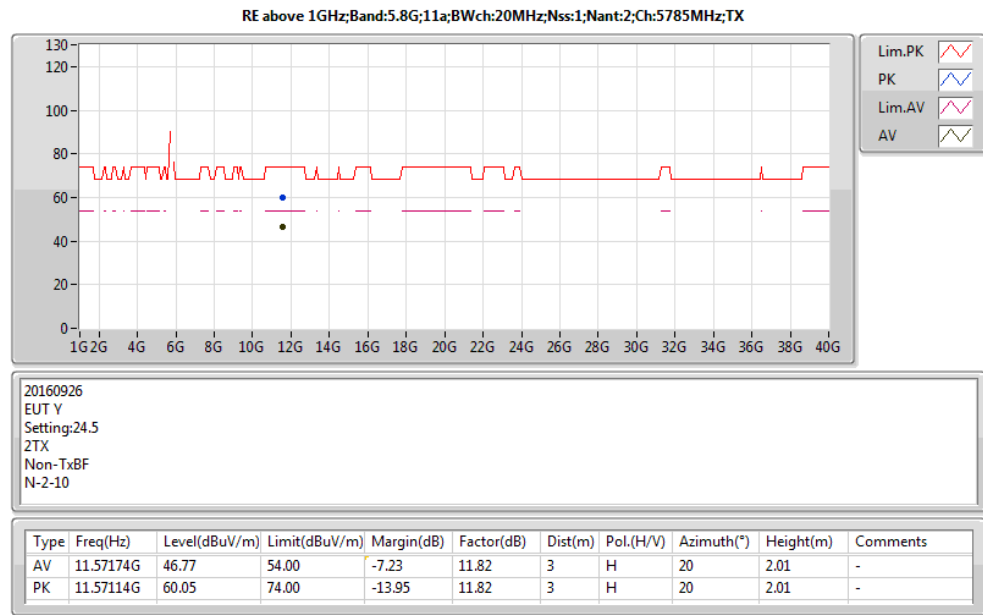


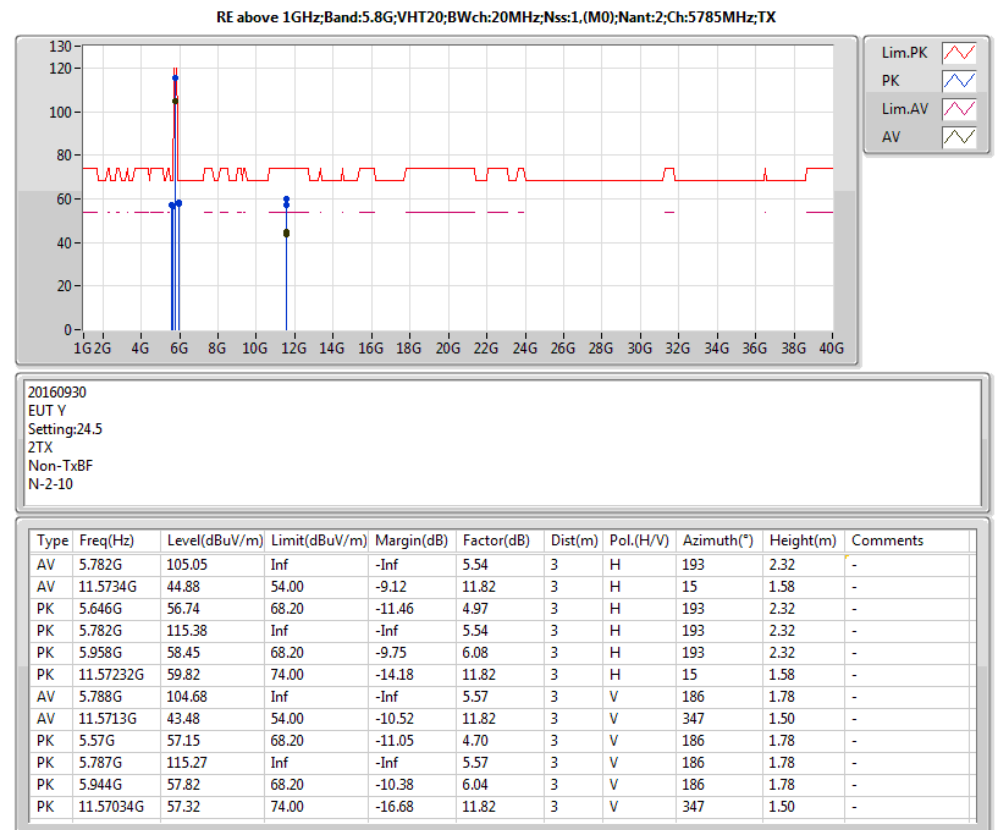
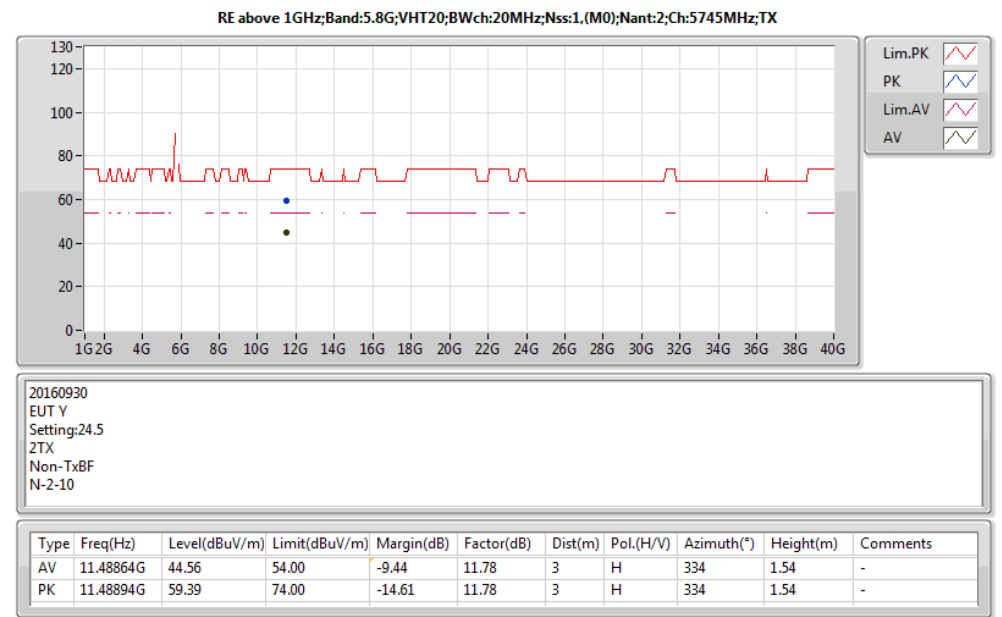
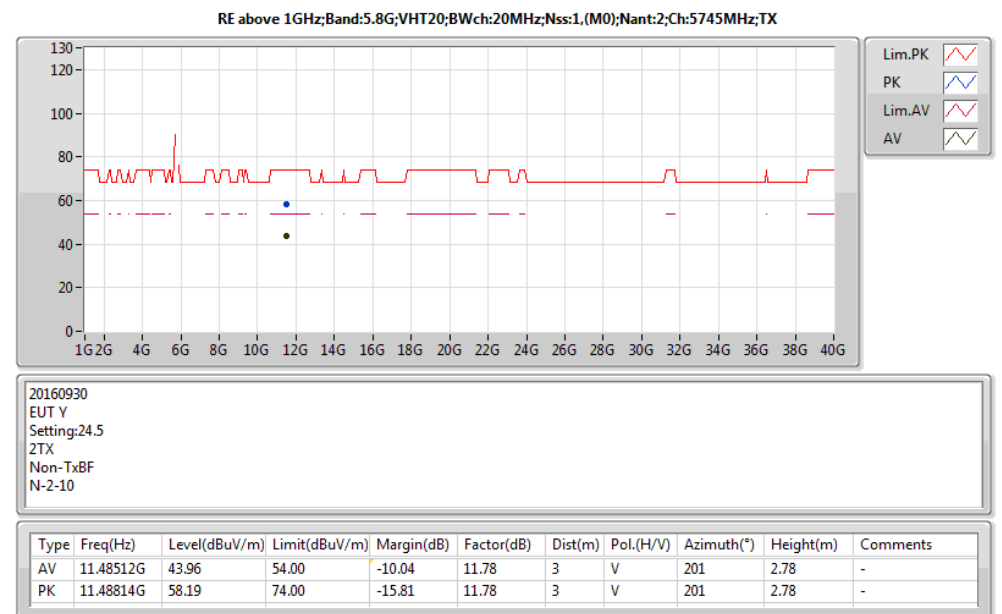
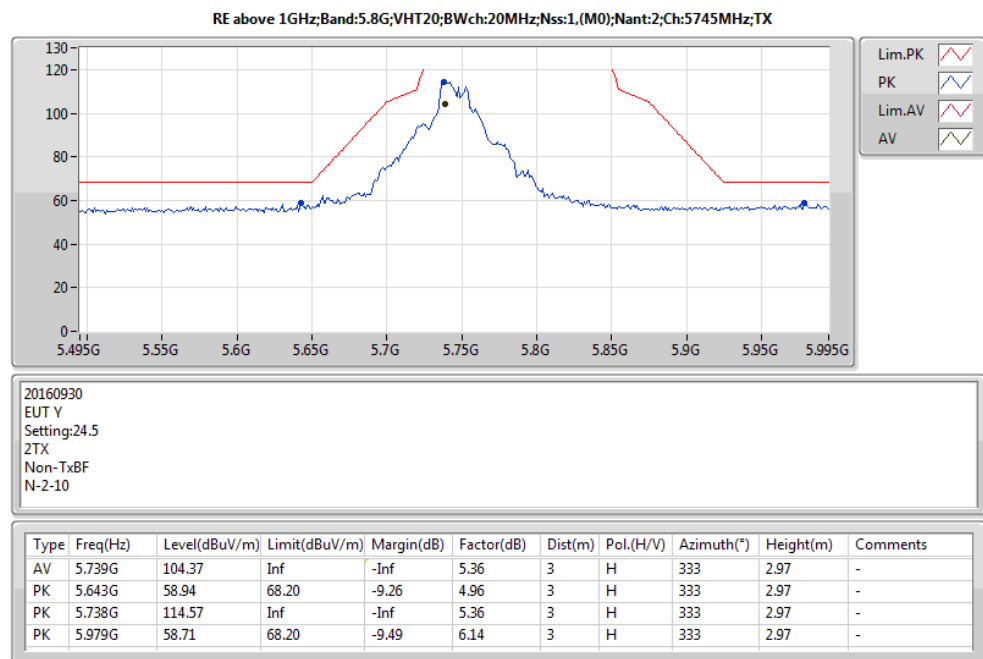
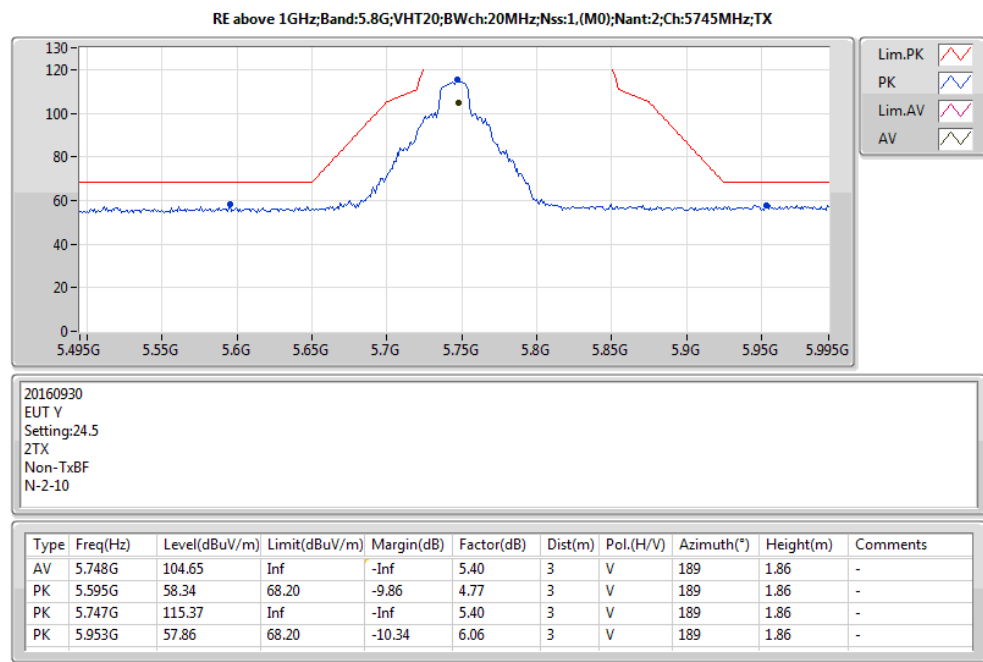
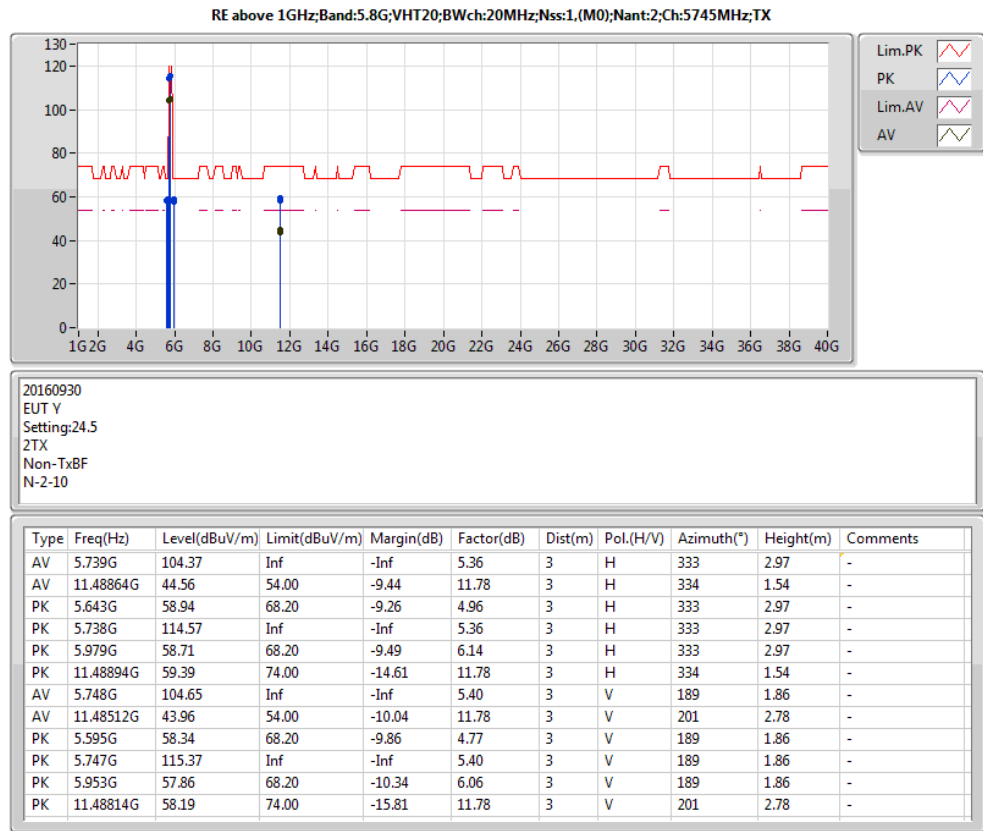


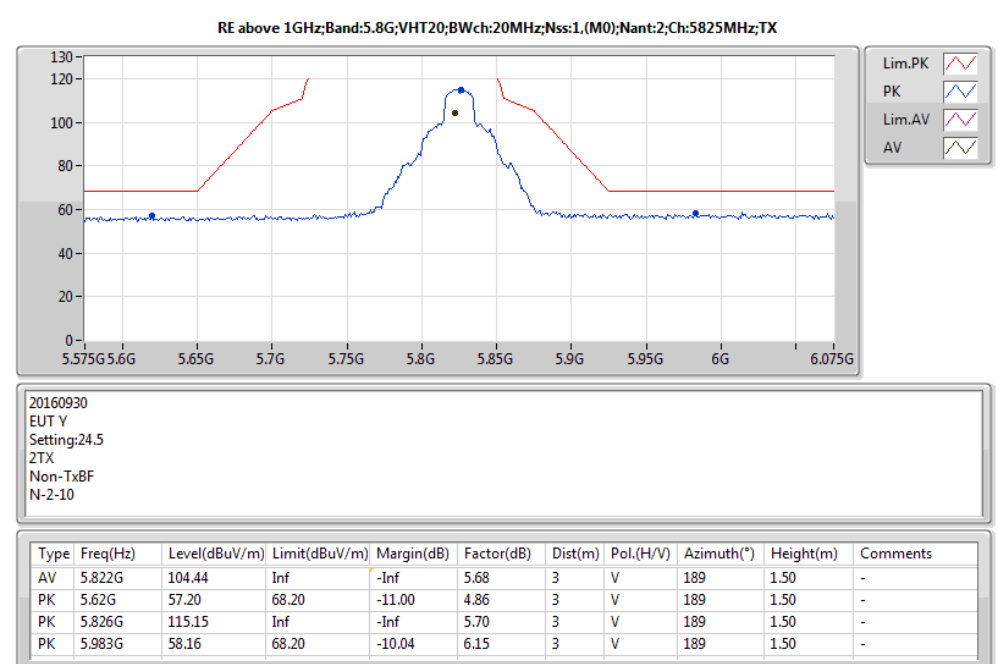
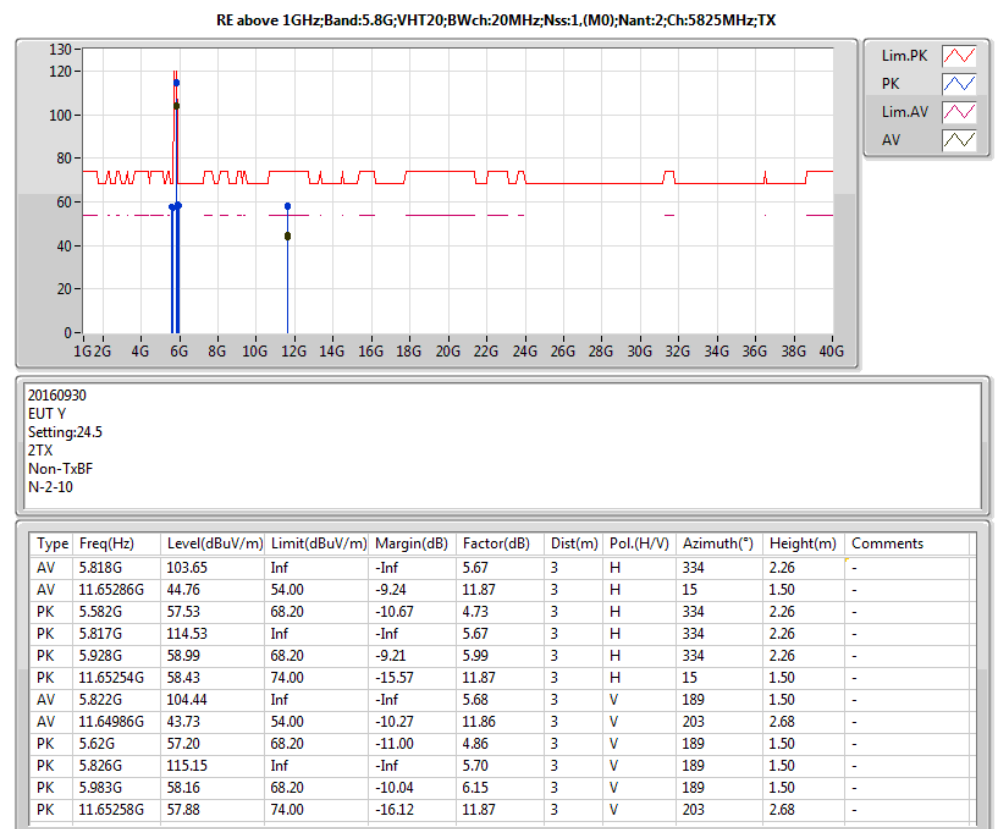
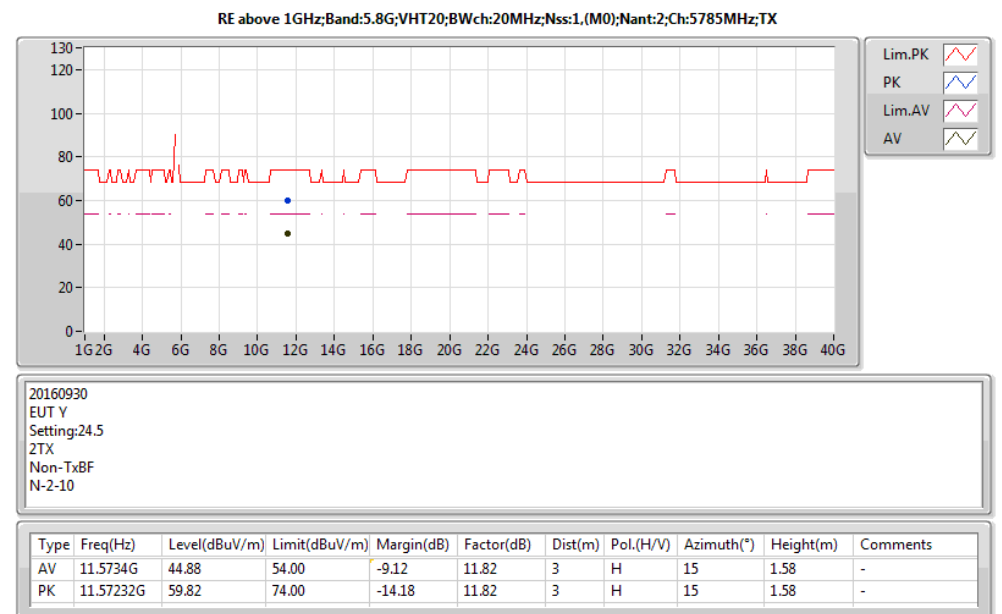
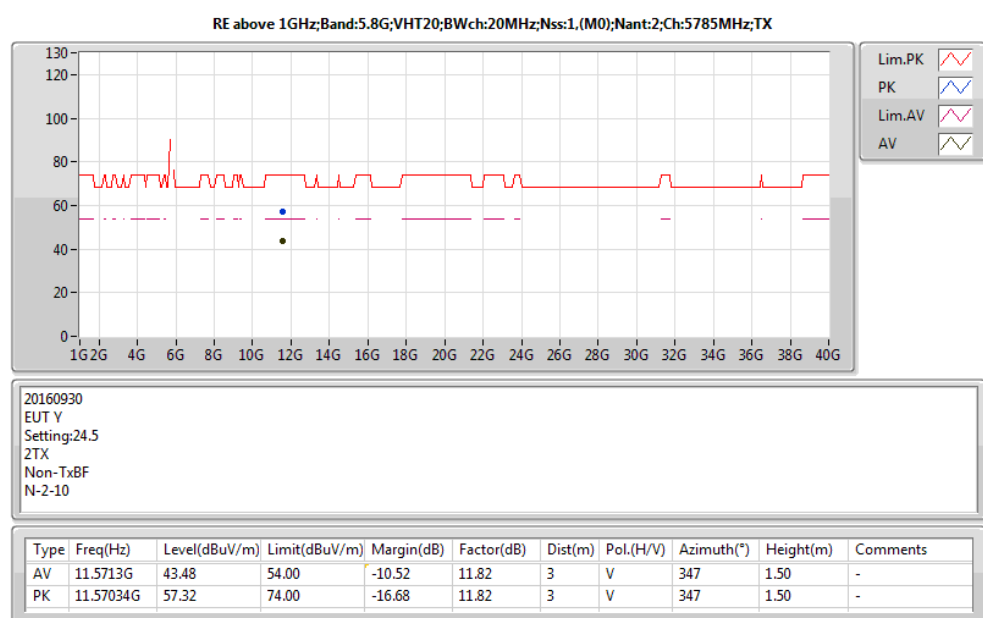
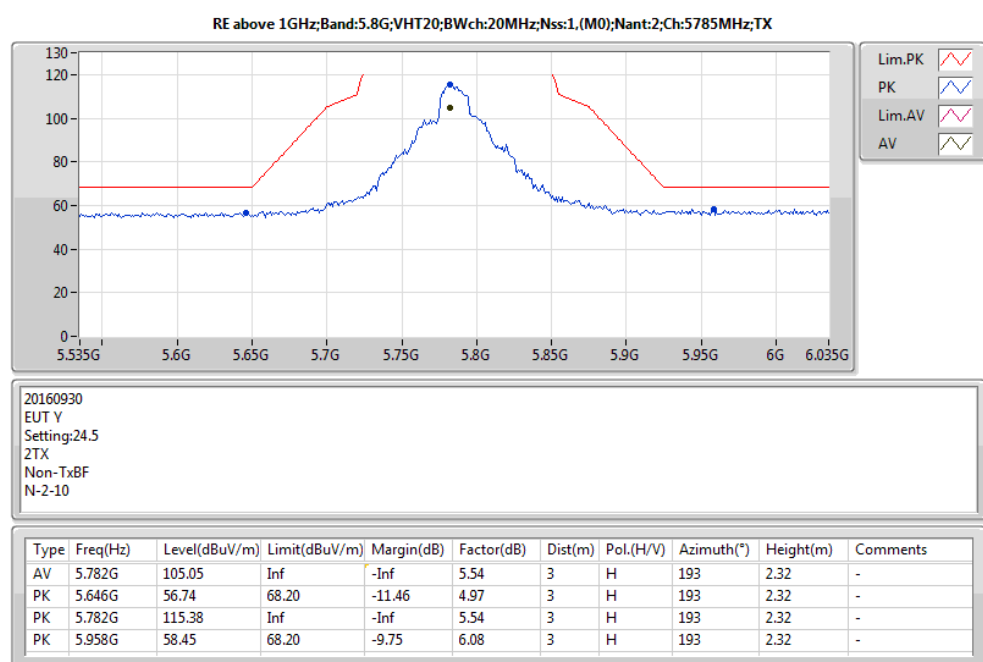
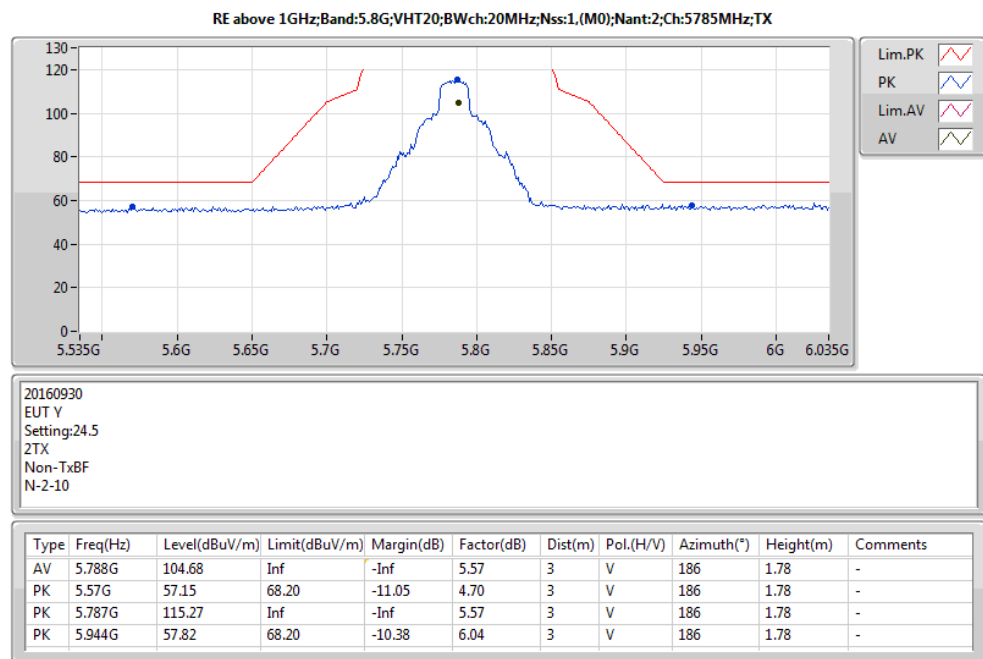


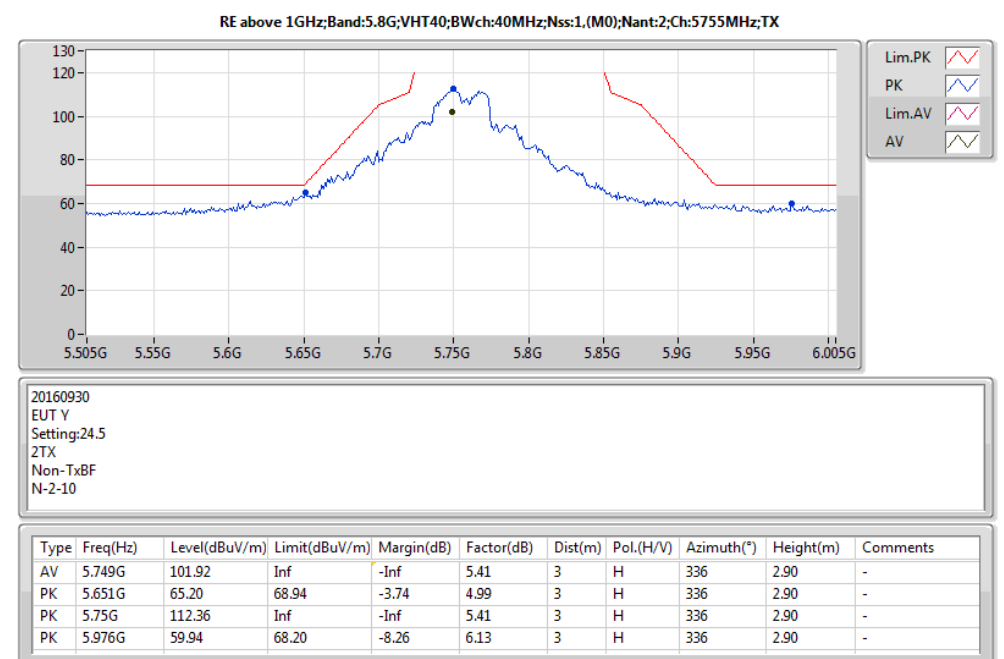
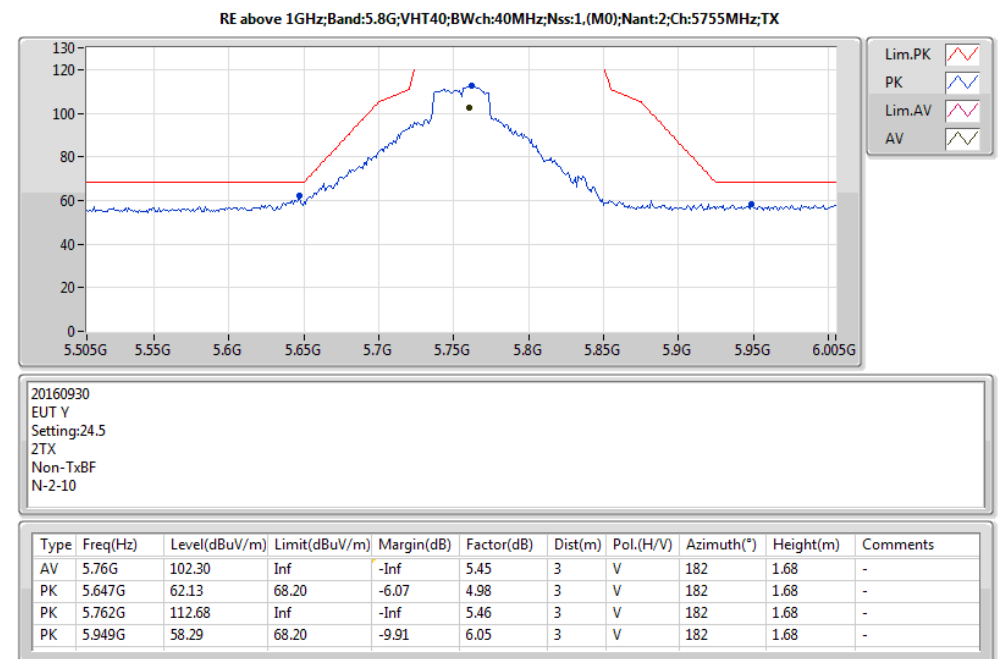
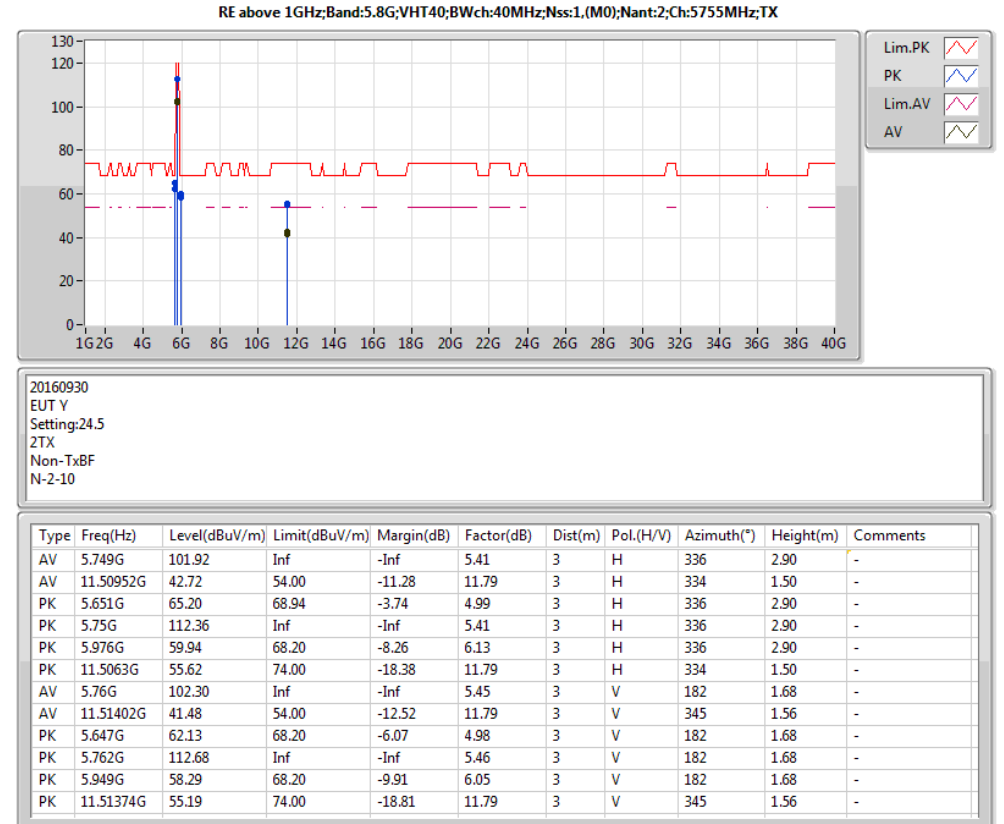
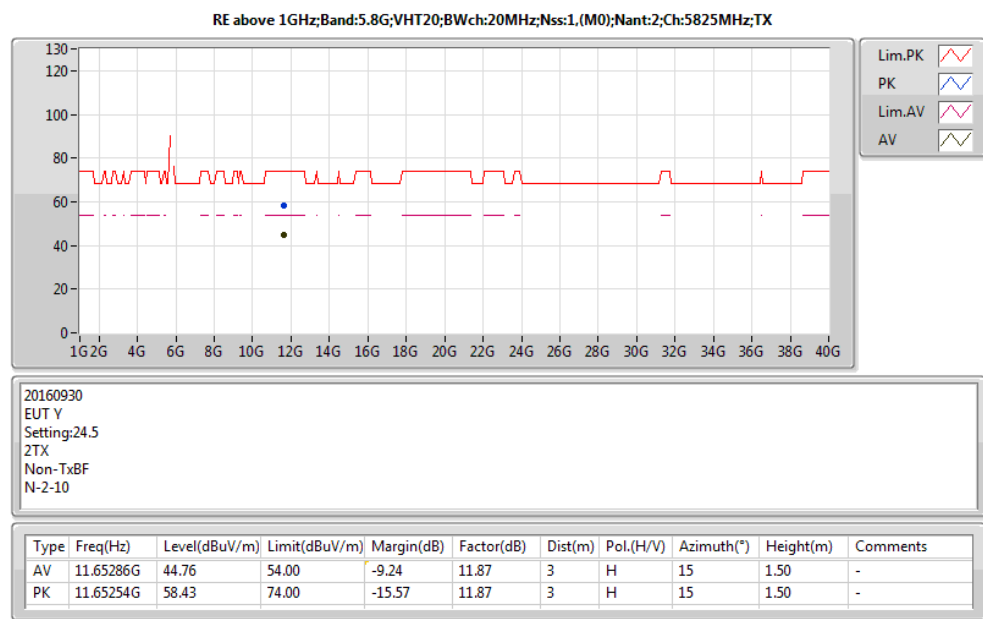
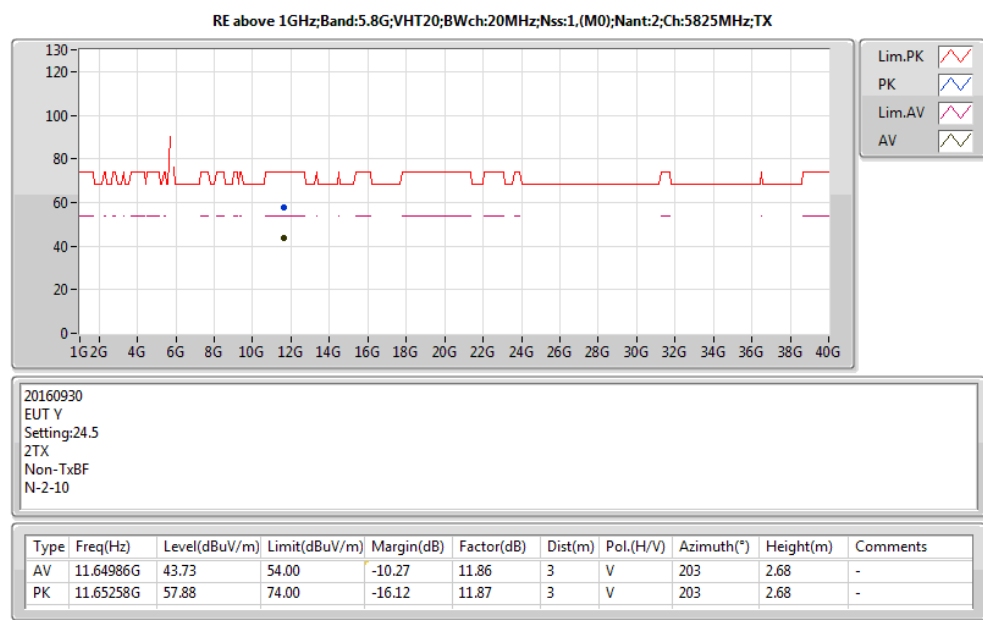
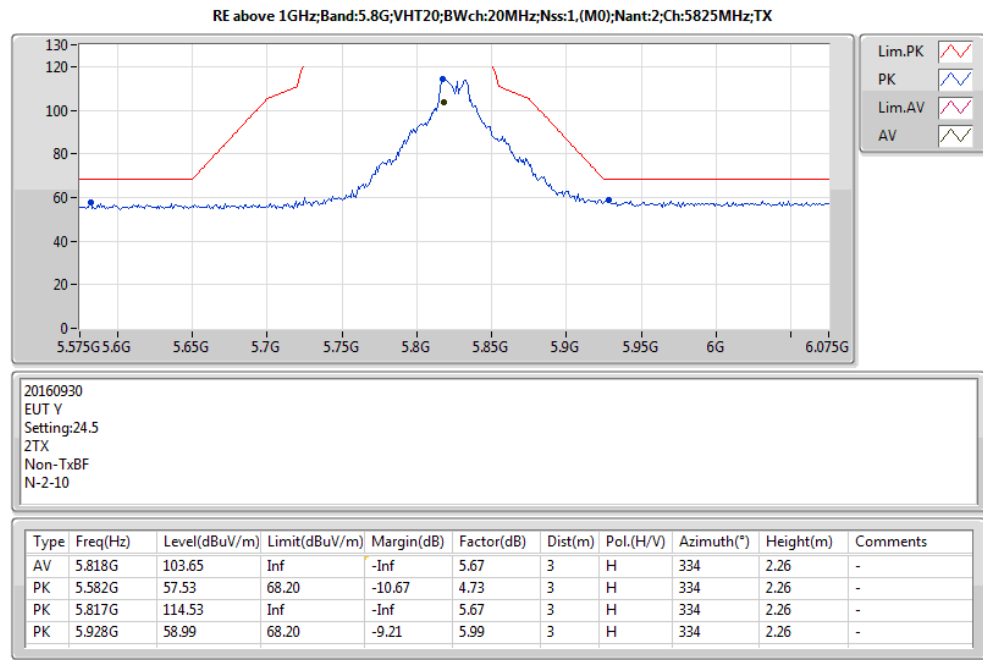


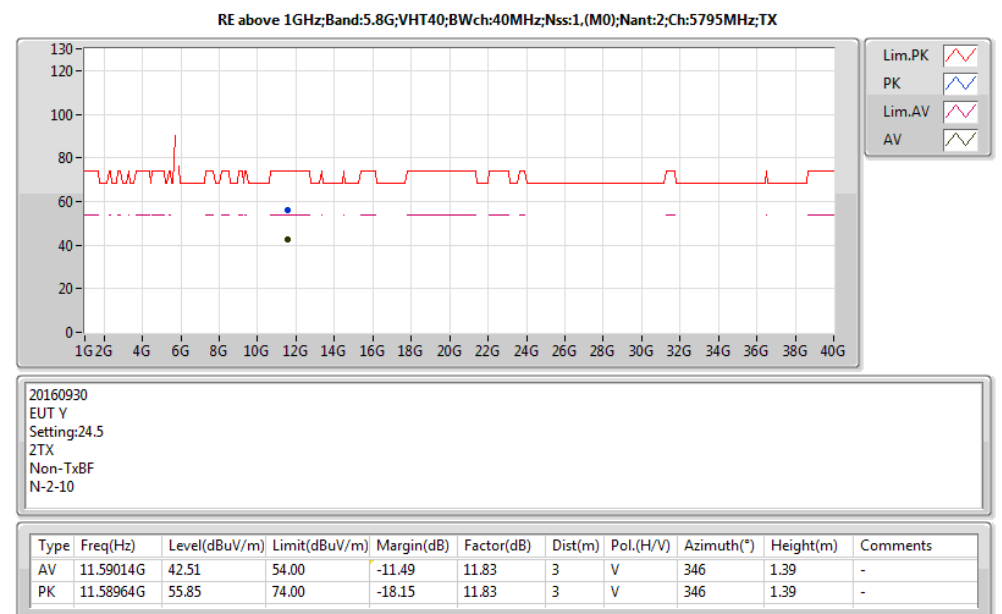
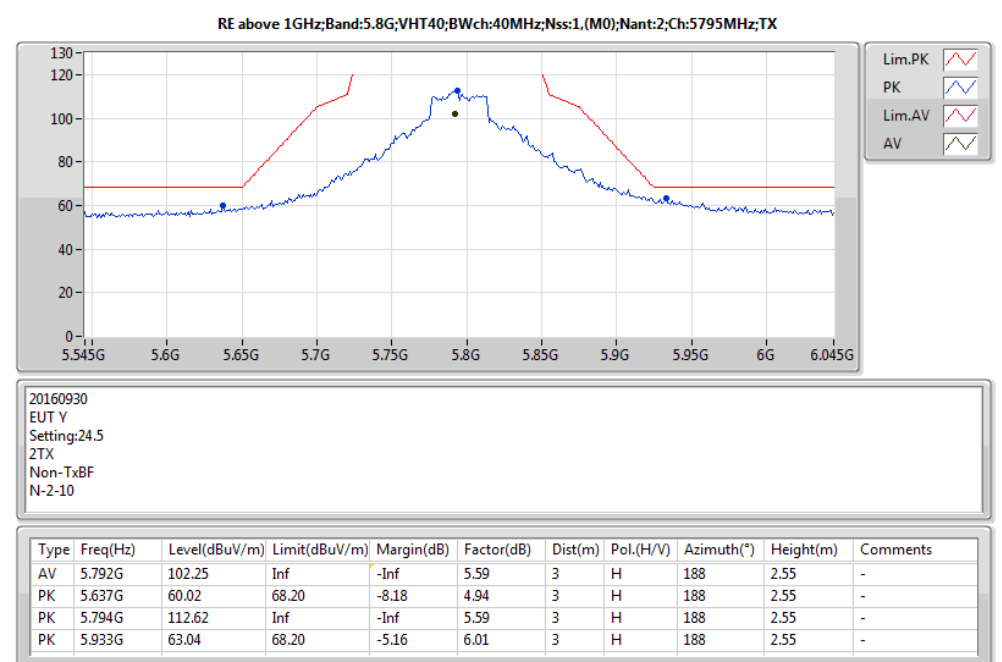
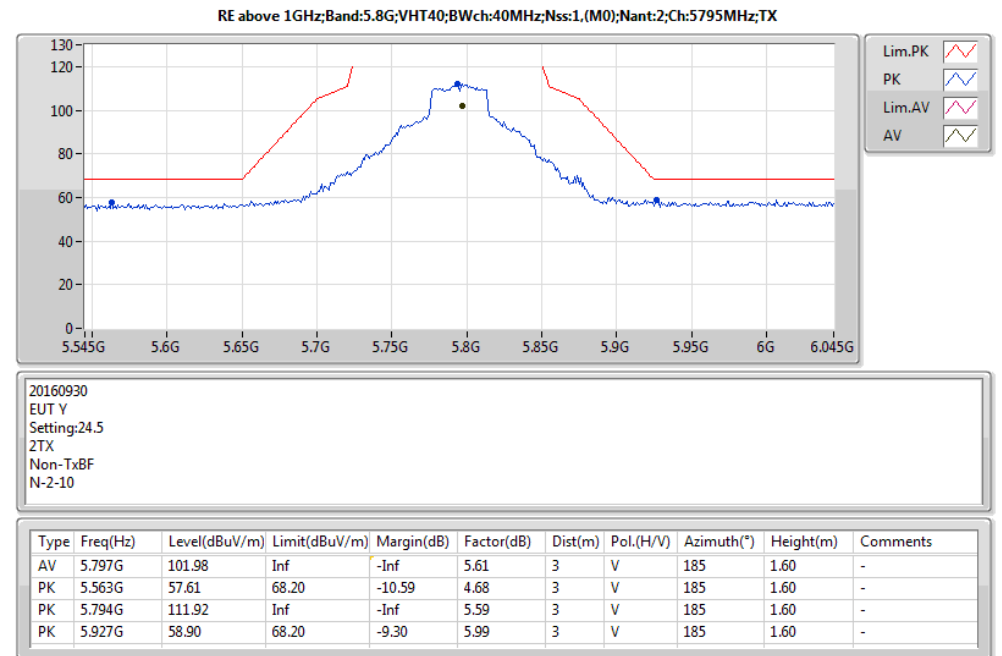
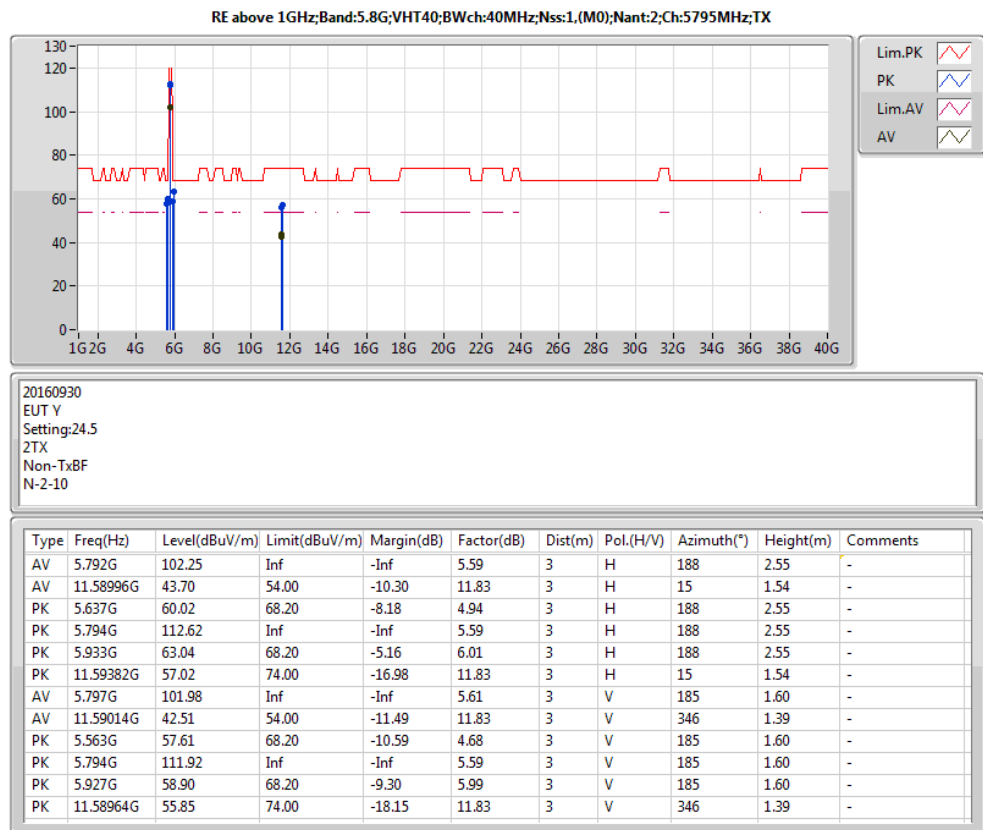
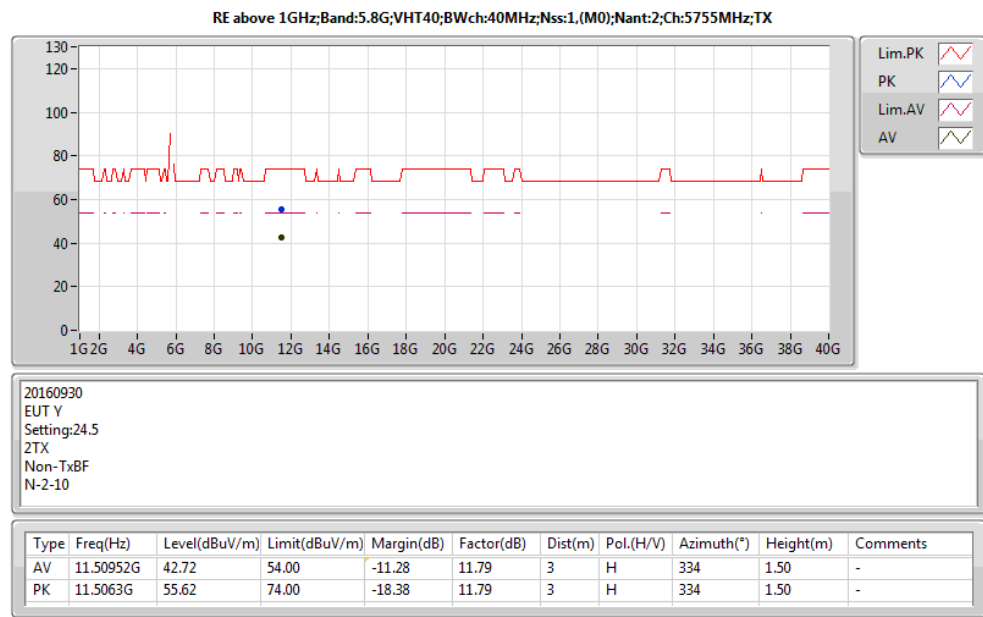
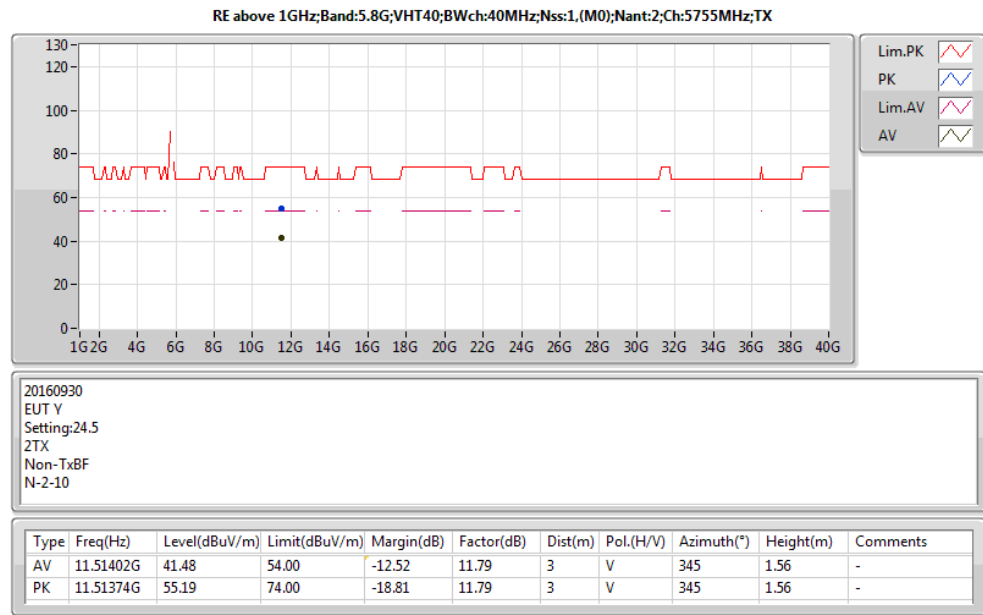


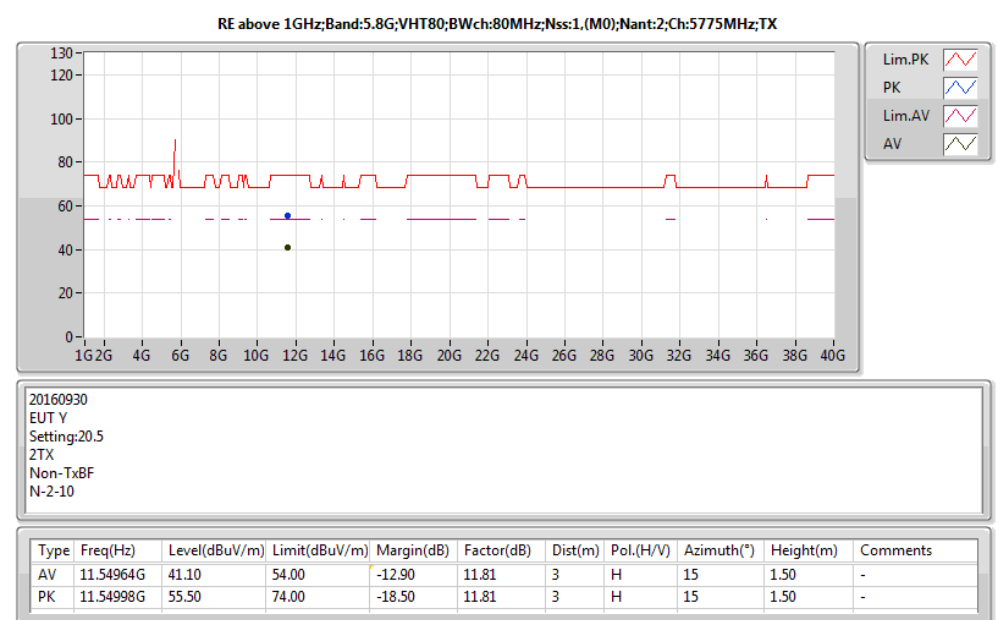
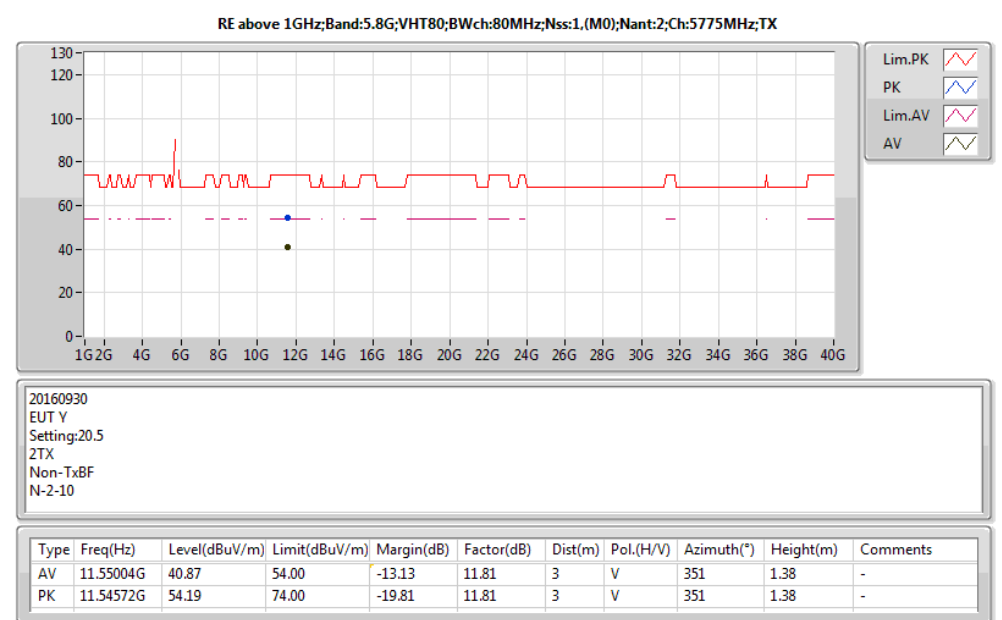
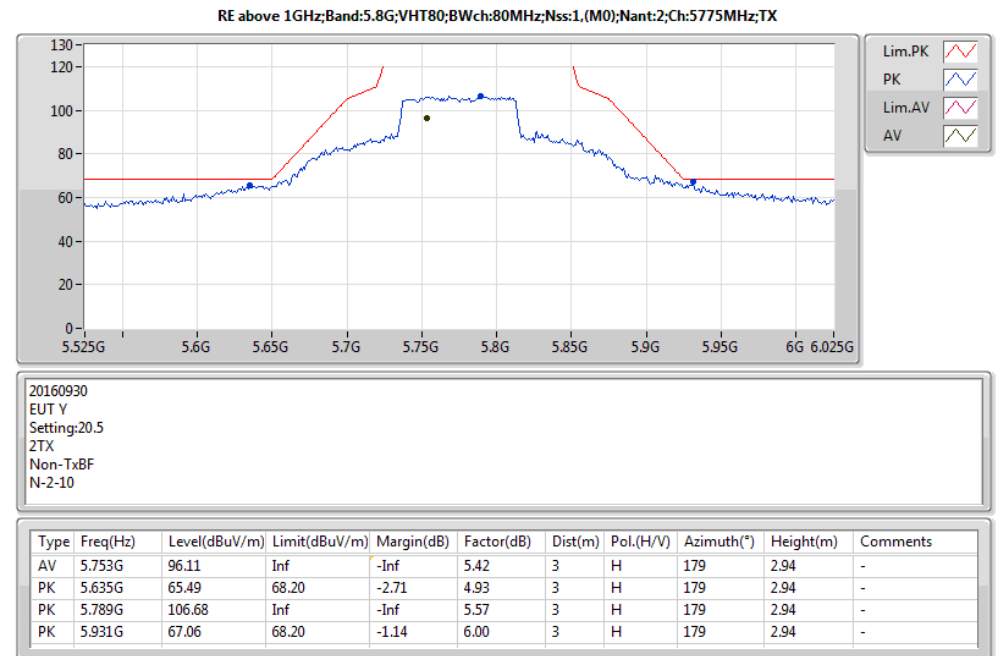
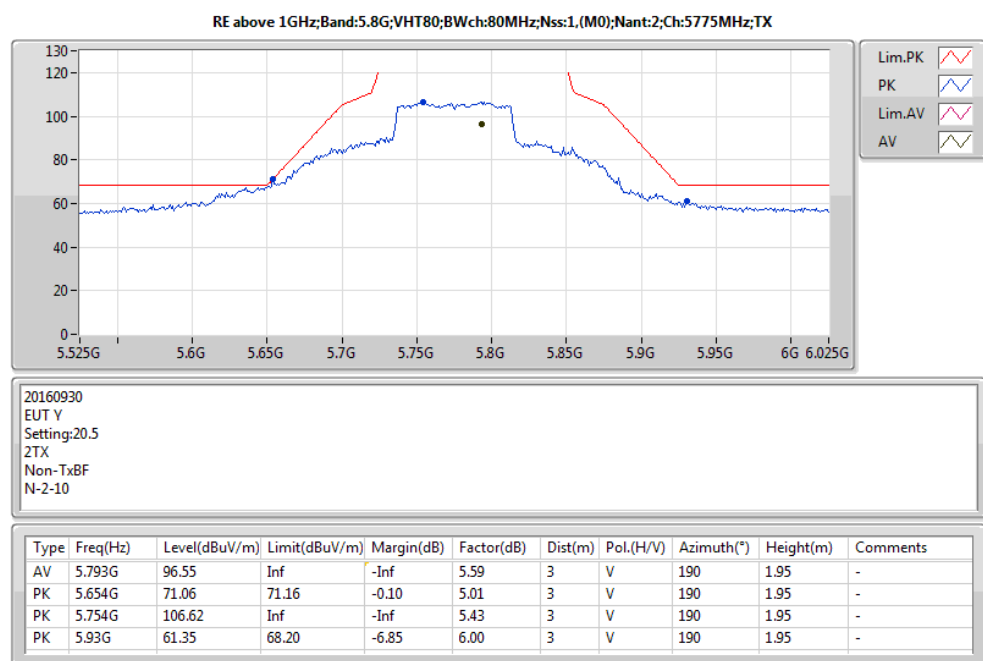
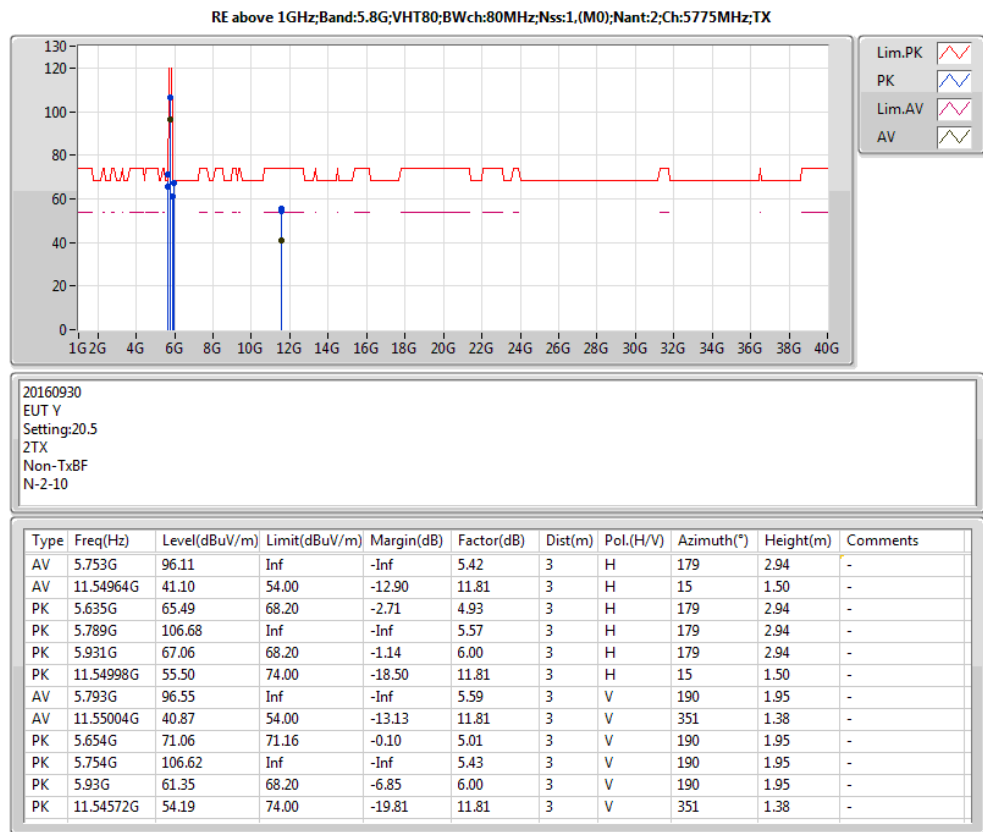
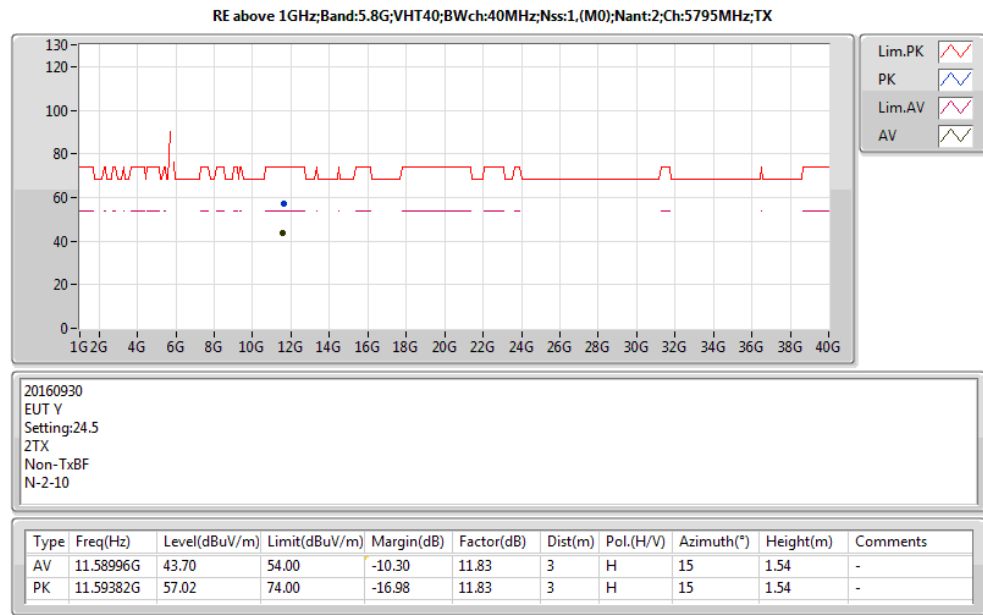














Mode: 20 MHz / Ant. 2

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5199.9636	5199.9629	5199.9628	5199.9624
110.00	5199.9635	5199.9626	5199.9624	5199.9616
93.50	5199.9633	5199.9631	5199.9627	5199.9624
Max. Deviation (MHz)	0.0367	0.0374	0.0376	0.0384
Max. Deviation (ppm)	7.06	7.19	7.23	7.38
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5200 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5199.9616	5199.9613	5199.9608	5199.9602
10	5199.9620	5199.9610	5199.9608	5199.9606
20	5199.9635	5199.9633	5199.9625	5199.9619
30	5199.9661	5199.9657	5199.9653	5199.9645
40	5199.9664	5199.9660	5199.9657	5199.9652
50	5199.9669	5199.9661	5199.9657	5199.9656
Max. Deviation (MHz)	0.0384	0.0390	0.0392	0.0398
Max. Deviation (ppm)	7.38	7.50	7.54	7.65
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5784.9639	5784.9633	5784.9630	5784.9622
110.00	5784.9635	5784.9625	5784.9618	5784.9615
93.50	5784.9634	5784.9632	5784.9626	5784.9623
Max. Deviation (MHz)	0.0366	0.0375	0.0382	0.0385
Max. Deviation (ppm)	6.33	6.48	6.60	6.66
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5785 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5784.9629	5784.9624	5784.9614	5784.9610
10	5784.9632	5784.9630	5784.9622	5784.9620
20	5784.9635	5784.9633	5784.9624	5784.9620
30	5784.9661	5784.9652	5784.9647	5784.9642
40	5784.9664	5784.9656	5784.9649	5784.9640
50	5784.9665	5784.9664	5784.9656	5784.9653
Max. Deviation (MHz)	0.0371	0.0376	0.0386	0.0390
Max. Deviation (ppm)	6.41	6.50	6.67	6.74
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	5189.9639	5189.9638	5189.9629	5189.9625
110.00	5189.9635	5189.9631	5189.9630	5189.9625
93.50	5189.9630	5189.9620	5189.9615	5189.9605
Max. Deviation (MHz)	0.0370	0.0380	0.0385	0.0395
Max. Deviation (ppm)	7.13	7.32	7.42	7.61
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5190 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5189.9620	5189.9619	5189.9618	5189.9608
10	5189.9630	5189.9629	5189.9625	5189.9620
20	5189.9635	5189.9633	5189.9629	5189.9628
30	5189.9661	5189.9656	5189.9652	5189.9649
40	5189.9665	5189.9657	5189.9656	5189.9651
50	5189.9643	5189.9633	5189.9627	5189.9626
Max. Deviation (MHz)	0.0380	0.0381	0.0382	0.0392
Max. Deviation (ppm)	7.32	7.34	7.36	7.55
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5754.9637	5754.9632	5754.9622	5754.9619
110.00	5754.9635	5754.9627	5754.9622	5754.9615
93.50	5754.9634	5754.9629	5754.9628	5754.9626
Max. Deviation (MHz)	0.0366	0.0373	0.0378	0.0385
Max. Deviation (ppm)	6.36	6.48	6.57	6.69
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5755 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5754.9624	5754.9622	5754.9619	5754.9618
10	5754.9625	5754.9624	5754.9617	5754.9611
20	5754.9635	5754.9627	5754.9618	5754.9608
30	5754.9661	5754.9655	5754.9653	5754.9645
40	5754.9671	5754.9670	5754.9669	5754.9665
50	5754.9643	5754.9634	5754.9627	5754.9620
Max. Deviation (MHz)	0.0376	0.0378	0.0383	0.0392
Max. Deviation (ppm)	6.53	6.57	6.66	6.81
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	5209.9645	5209.9641	5209.9640	5209.9637
110.00	5209.9635	5209.9627	5209.9623	5209.9619
93.50	5209.9626	5209.9618	5209.9608	5209.9600
Max. Deviation (MHz)	0.0374	0.0382	0.0392	0.0400
Max. Deviation (ppm)	7.18	7.33	7.52	7.68
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5210 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5209.9618	5209.9608	5209.9607	5209.9598
10	5209.9630	5209.9627	5209.9623	5209.9617
20	5209.9635	5209.9627	5209.9619	5209.9613
30	5209.9661	5209.9657	5209.9650	5209.9647
40	5209.9679	5209.9677	5209.9672	5209.9664
50	5209.9637	5209.9628	5209.9621	5209.9615
Max. Deviation (MHz)	0.0382	0.0392	0.0393	0.0402
Max. Deviation (ppm)	7.33	7.52	7.54	7.72
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5774.9638	5774.9637	5774.9635	5774.9631
110.00	5774.9635	5774.9627	5774.9625	5774.9624
93.50	5774.9631	5774.9624	5774.9619	5774.9613
Max. Deviation (MHz)	0.0369	0.0376	0.0381	0.0387
Max. Deviation (ppm)	6.39	6.51	6.60	6.70
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5775 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
0	5774.9621	5774.9613	5774.9606	5774.9598
10	5774.9632	5774.9628	5774.9619	5774.9614
20	5774.9635	5774.9631	5774.9624	5774.9618
30	5774.9661	5774.9658	5774.9648	5774.9644
40	5774.9674	5774.9669	5774.9660	5774.9650
50	5774.9644	5774.9641	5774.9631	5774.9628
Max. Deviation (MHz)	0.0379	0.0387	0.0394	0.0402
Max. Deviation (ppm)	6.56	6.70	6.82	6.96
Result	Pass			