



FCC Test Report

Equipment : PMP450b
Brand Name : Cambium Networks
Model No. : PMP450b
FCC ID : Z8H89FT0032
Standard : 47 CFR FCC Part 15.407
Operating Band : 5250 MHz – 5350 MHz
5470 MHz – 5725 MHz
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008,
USA
Manufacturer : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008,
USA
Function : ☐ Outdoor; ☐ Indoor; ☒ Fixed P2P
☐ Client
TPC Function : ☒ With TPC ☐ Without TPC

The product sample received on May 05, 2017 and completely tested on Aug. 14, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Cliff Chang
SPORTON INTERNATIONAL INC.





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Summary of Test Result

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



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: Z8H89FT0032

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Mode	Ch. Frequency (MHz)			Channel Number
5250-5350	QPSK, 10M	5250	5255	5260	19
		5265	5270	5275	
		5280	5285	5290	
		5295	5300	5305	
		5310	5315	5320	
		5325	5330	5335	
		5340			
5470-5725		5480	5485	5490	39
		5495	5500	5505	
		5510	5515	5520	
		5525	5530	5535	
		5540	5545	5550	
		5555	5560	5565	
		5570	5575	5580	
		5585	5590	5595	
		5655	5660	5665	
		5670	5675	5680	
	5685	5690	5695		
	5700	5705	5710		
	5715	5720	5725		
5250-5350	QPSK, 40M	5250	5255	5260	17
		5265	5270	5275	
		5280	5285	5290	
		5295	5300	5305	
		5310	5315	5320	
		5325		5330	
5470-5725		5490	5495	5500	29
		5505	5510	5515	
		5520	5525	5530	
		5535	5540	5545	
		5550	5555	5560	

		5565	5570	5575	
		5580	5675	5680	
		5685	5690	5695	
		5700	5705	5710	
		5715		5720	

Band	Mode	BWch (MHz)	Nant
5.25-5.35GHz	QPSK,10M	10	2TX
5.25-5.35GHz	QPSK,40M	40	2TX
5.47-5.725GHz	QPSK,10M	10	2TX
5.47-5.725GHz	QPSK,40M	40	2TX

Note:

- ♦ 10M and 40M use QPSK modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	-	-	Panel antenna	N/A	17
	2	-	-	Panel antenna	N/A	17
2	1	-	-	Panel antenna	N/A	2
	2	-	-	Panel antenna	N/A	2

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

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
QPSK,10M	0.487	3.125	2.46m	1k
QPSK,40M	0.38	4.202	1.992m	1k

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Weather Band	☐	With 5600~5650MHz	☒	Without 5600~5650MHz

1.1.5 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FR751045-02

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

Description	Performance Checking
Adding 5G Band 2 and 5G Band 3 only for 10M and 40M (For detail information please refer to section 1.1.1)	1. Emission Bandwidth 2. Maximum Conducted Output Power 3. Spectral Density 4. Unwanted Emissions 5. Frequency Stability

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 v01r04
- ♦ 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	Lucke Hsieh & Eddie Weng	22°C / 54%	May 05, 2017~Aug. 14, 2017
Radiated	03CH01-CB	Mars Lin / Lucke Hsieh	22°C / 54%	Jun. 29, 2017~Jul. 21, 2017

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
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74×10^{-8}	Confidence levels of 95%
Frequency Stability	6.06×10^{-8}	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

For Ant. 1

Mode	Power Setting
QPSK,10M_Nss1_2TX	-
5250MHz Straddle 5.15-5.25GHz	10
5250MHz Straddle 5.25-5.35GHz	10
5255MHz	7
5300MHz	6
5340MHz	6
5480MHz	4
5595MHz	4
5715MHz	6
5725MHz Straddle 5.47-5.725GHz	10
5725MHz Straddle 5.725-5.85GHz	10
QPSK,40M_Nss1_2TX	-
5250MHz Straddle 5.15-5.25GHz	10
5250MHz Straddle 5.25-5.35GHz	10
5300MHz	10
5330MHz	1
5490MHz	5
5580MHz	10
5720MHz Straddle 5.47-5.725GHz	10
5720MHz Straddle 5.725-5.85GHz	10

**For Ant. 2**

Mode	Power Setting
QPSK,10M_Nss1_2TX	-
5250MHz Straddle 5.25-5.35GHz	4F/4C
5255MHz	5B/5C
5300MHz	5E/5E
5340MHz	5D/5D
5480MHz	5E/5F
5595MHz	5F/5E
5715MHz	59/55
5725MHz Straddle 5.47-5.725GHz	49/48
QPSK,40M_Nss1_2TX	-
5250MHz Straddle 5.15-5.25GHz	1C/1B
5250MHz Straddle 5.25-5.35GHz	53/52
5300MHz	5E/5A
5330MHz	90/8C
5490MHz	5E/5B
5580MHz	5D/5A
5720MHz Straddle 5.47-5.725GHz	52/4D
5720MHz Straddle 5.725-5.85GHz	4A/43

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emission Bandwidth Peak Power Spectral Density Frequency Stability
Test Condition	Conducted measurement at transmit chains
Because Ant.1 & Ant.2 are the same type antennas, only the higher gain antenna "Ant.1" was tested.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Maximum Conducted Output Power
Test Condition	Conducted measurement at transmit chains
Operating Mode	EUT with Ant. 1
	EUT with Ant. 2

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
Because Ant.1 & Ant.2 are the same type antennas, only the higher gain antenna "Ant.1" was tested.	

Note: 1. The EUT can only be use in Y axis

2. PoE information as below:

The EUT was powered by PoE, and the PoE was for measurement only, would not be marked.

Support Unit	Brand Name	Model Name
PoE	Cambium Networks	G1021-300-0265

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

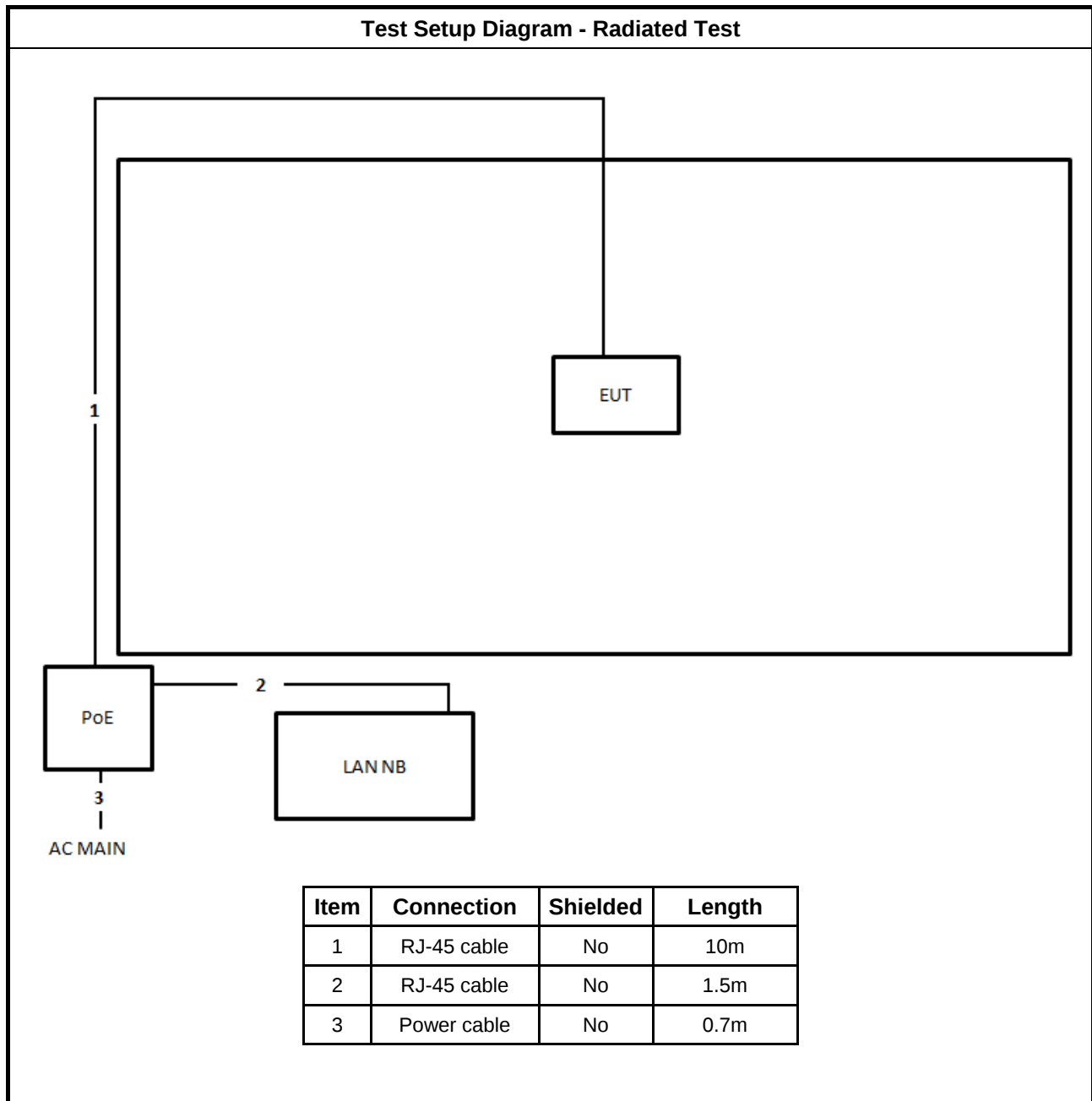
N/A

2.5 Support Equipment

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	PoE	Cambium Networks	G1021-300-0265	DoC

2.6 Test Setup Diagram



3 Transmitter Test Result

3.1 Emission Bandwidth

3.1.1 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.

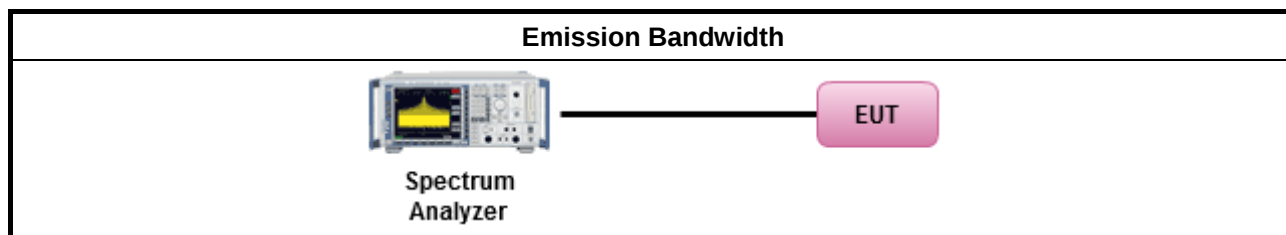
3.1.2 Measuring Instruments

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

3.1.3 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.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 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.	

3.2.2 Measuring Instruments

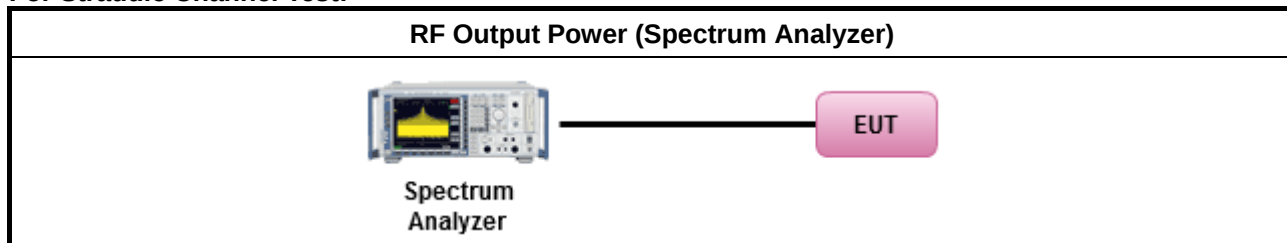
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

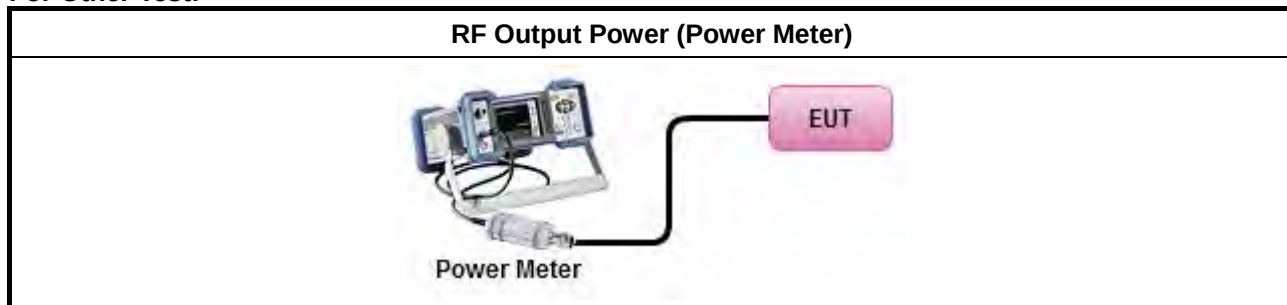
Test Method	
Maximum Conducted Output Power	
Average over on/off periods with duty factor	
☒	Refer as FCC KDB 789033, clause E Method SA-2 (spectral trace averaging).
☐	Refer as FCC KDB 789033, clause E Method SA-2 Alt. (RMS detection with slow sweep speed)
Wideband RF power meter and average over on/off 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]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup

For Straddle Channel Test:



For Other Test:



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Peak Power Spectral Density

3.3.1 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 (θ-8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$ -35.9 - 1.22 (θ-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.	

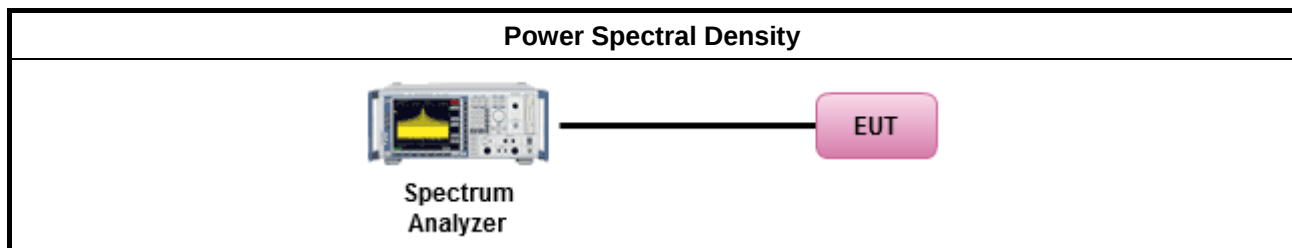
3.3.2 Measuring Instruments

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

3.3.3 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]) $EIRP_{total} = PPSD_{total} + DG$	

3.3.4 Test Setup





3.3.5 Test Result of Peak Power Spectral Density

Refer as Appendix C

3.4 Unwanted Emissions

3.4.1 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).

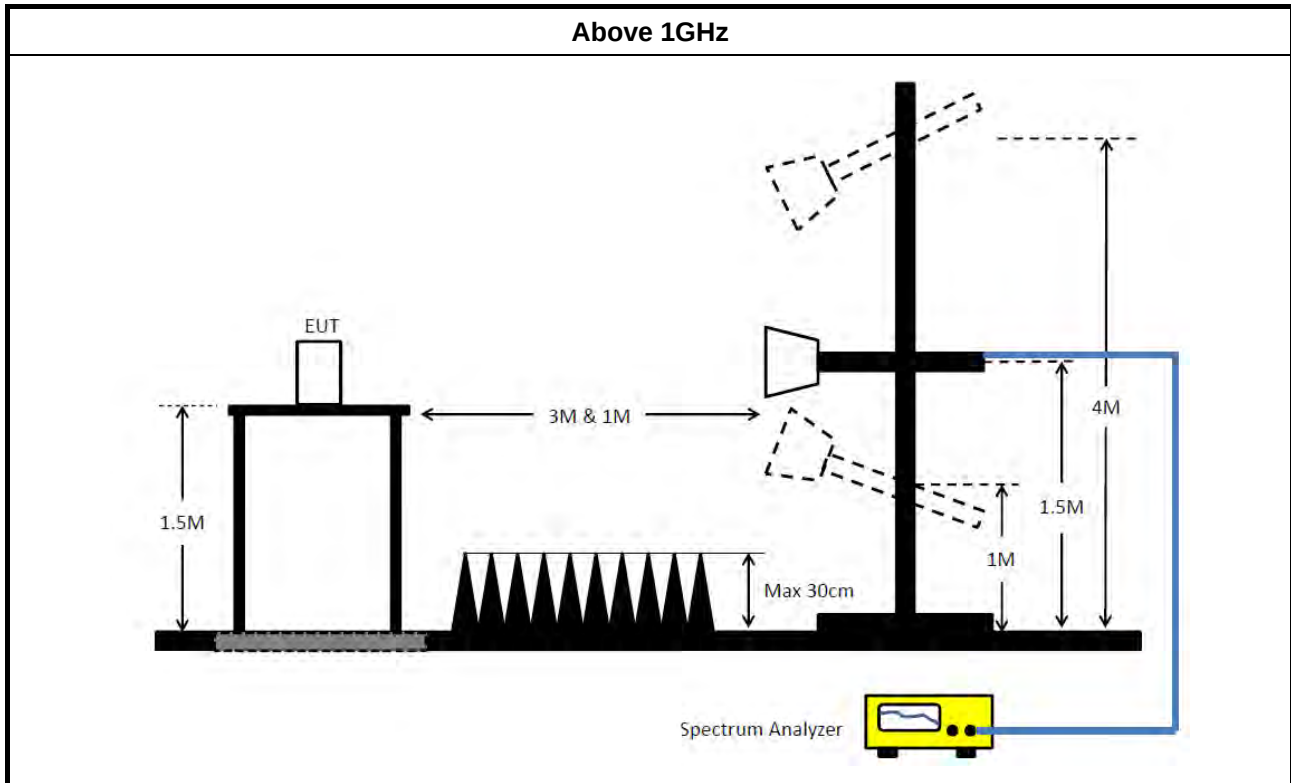
3.4.2 Measuring Instruments

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

3.4.3 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.	

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Unwanted Emissions

Refer as Appendix D

3.5 Frequency Stability

3.5.1 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.

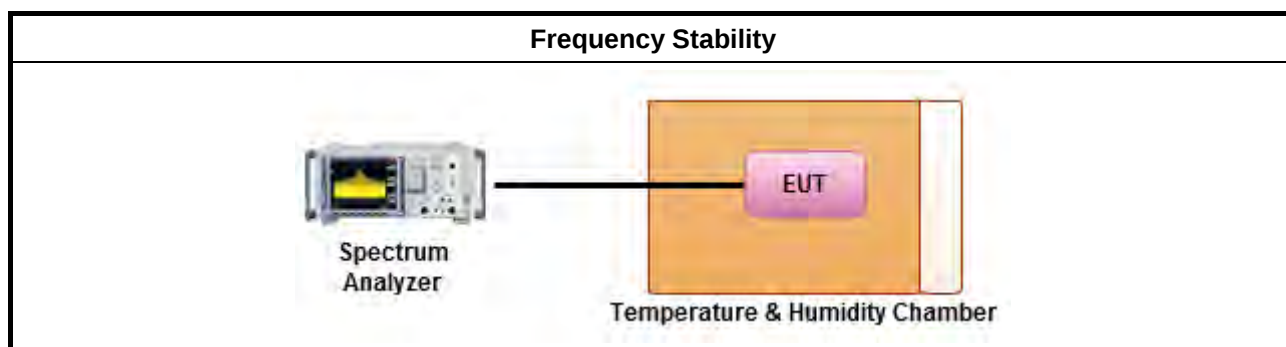
3.5.2 Measuring Instruments

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

3.5.3 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 $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$.

3.5.4 Test Setup



3.5.5 Test Result of Frequency Stability

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 10, 2016	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Radiation (03CH01-CB)
Amplifier	-	-	TF-130N-R1	26GHz ~ 40GHz	Jun. 20, 2017	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 22, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 24, 2016	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Conducted (TH01-CB)
Temp. and Humidity Chamber	Gaint Force	GTH-408-40-CP-AR	MAA1410-011	-40~100 degree	Sep. 20, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz ~ 26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-9	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 24, 2016	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 22, 2016	Conducted (TH01-CB)

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
QPSK,10M_Nss1_2TX	-	-	-	-	-
5.15-5.25GHz	4.8M	4.638M	4M64D1D	4.8M	4.638M
5.25-5.35GHz	9.775M	9.195M	9M20D1D	4.8M	4.558M
5.47-5.725GHz	9.763M	9.195M	9M20D1D	4.815M	4.573M
5.725-5.85GHz	4.64M	4.598M	4M60D1D	4.64M	4.598M
QPSK,40M_Nss1_2TX	-	-	-	-	-
5.15-5.25GHz	26.16M	23.428M	23M4D1D	21.2M	18.471M
5.25-5.35GHz	43M	37.031M	37M0D1D	16M	13.593M
5.47-5.725GHz	43M	36.982M	37M0D1D	21.21M	18.331M
5.725-5.85GHz	18.58M	18.471M	18M5D1D	13.58M	13.513M

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

Max-OBW = Maximum 99% occupied bandwidth;

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

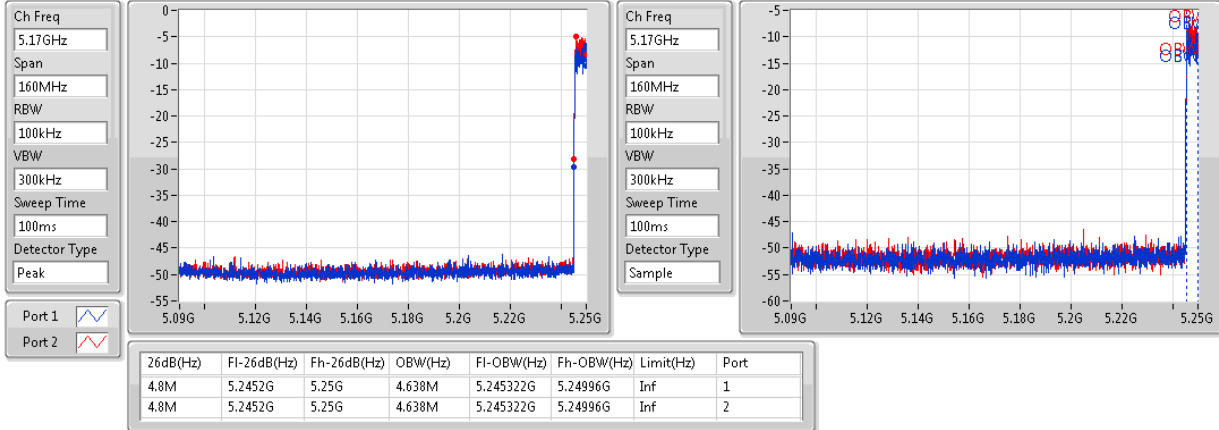
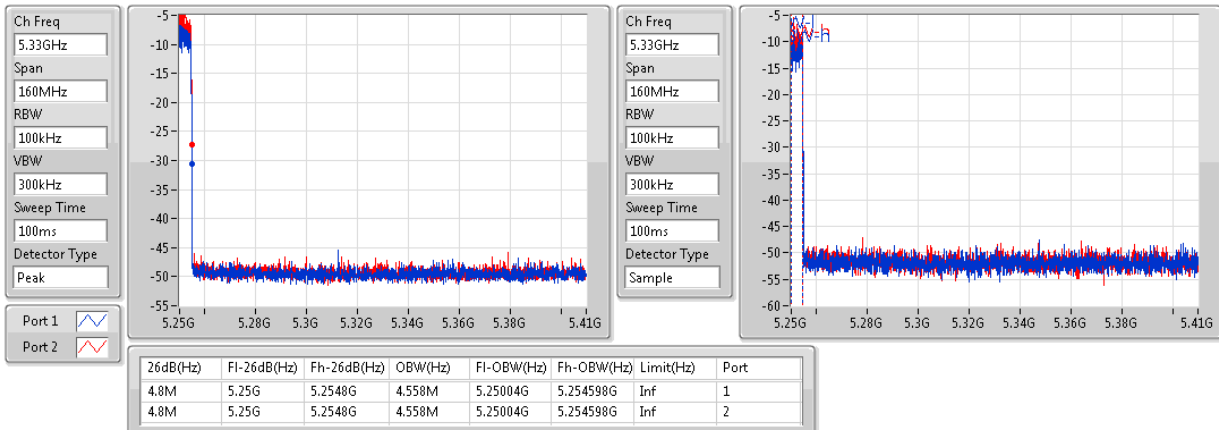
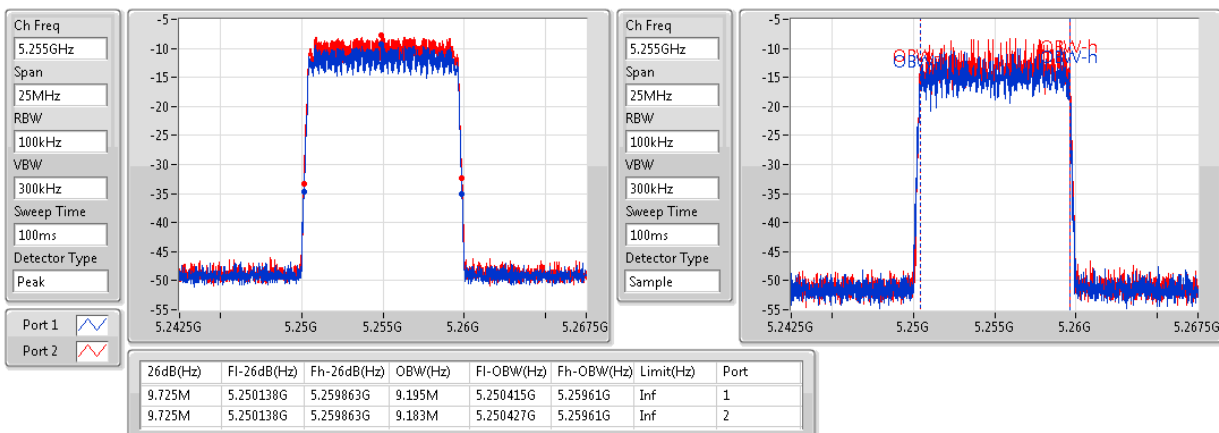
Min-OBW = Minimum 99% occupied bandwidth;

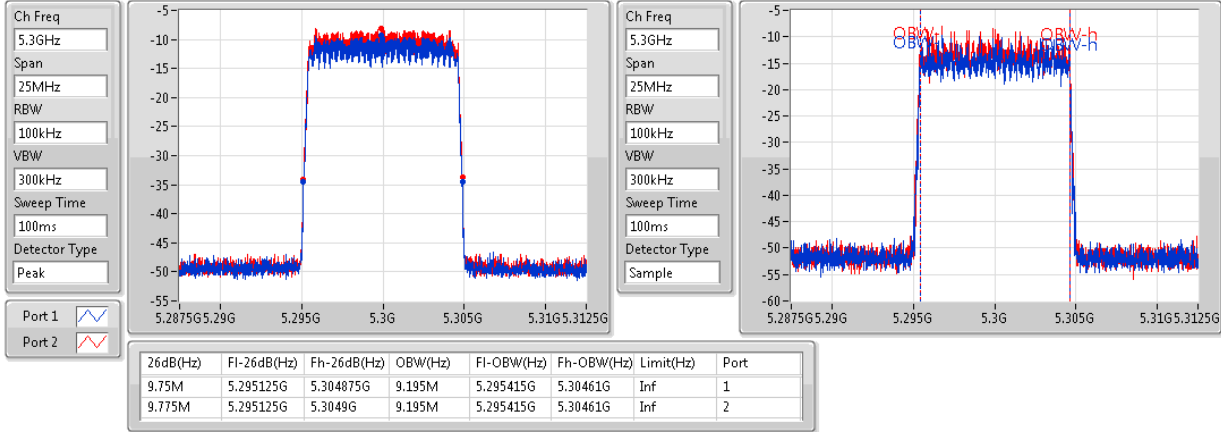
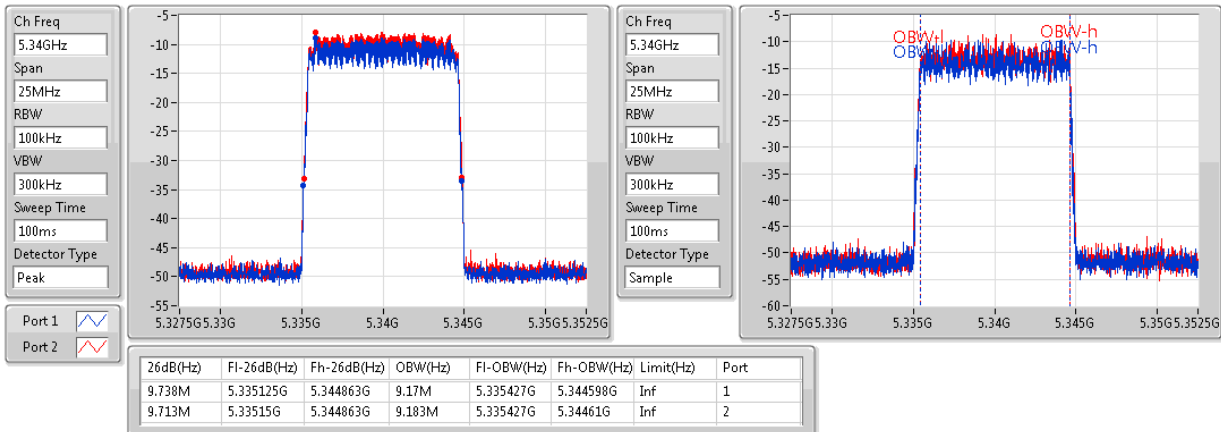
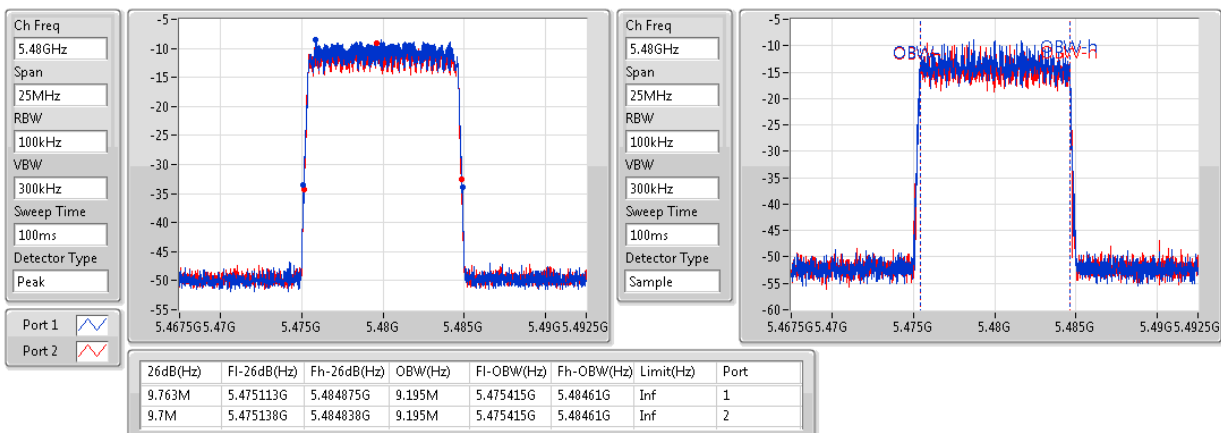
Result

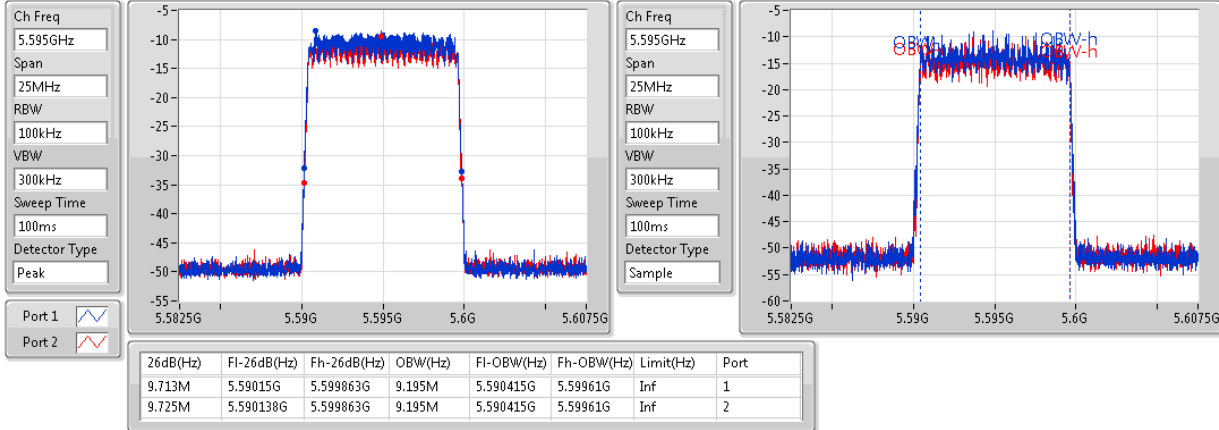
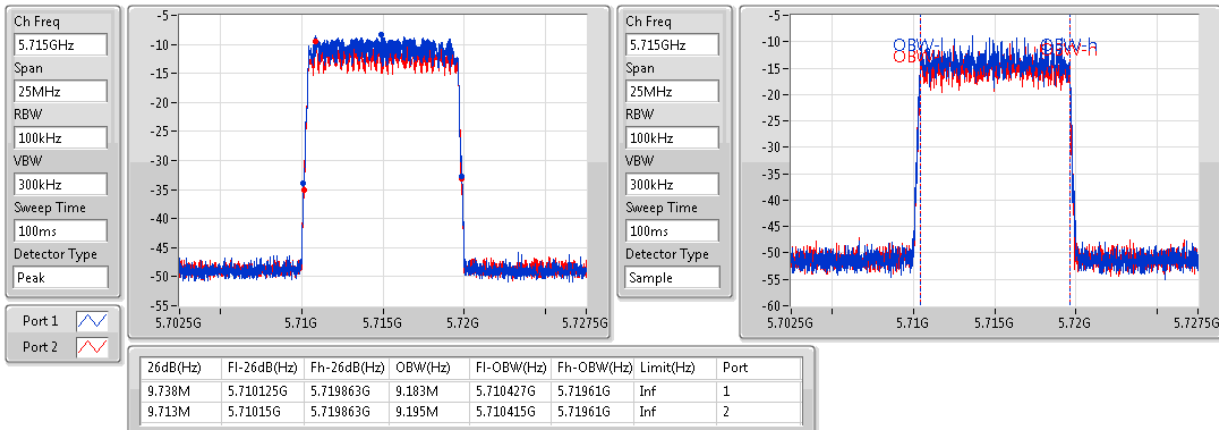
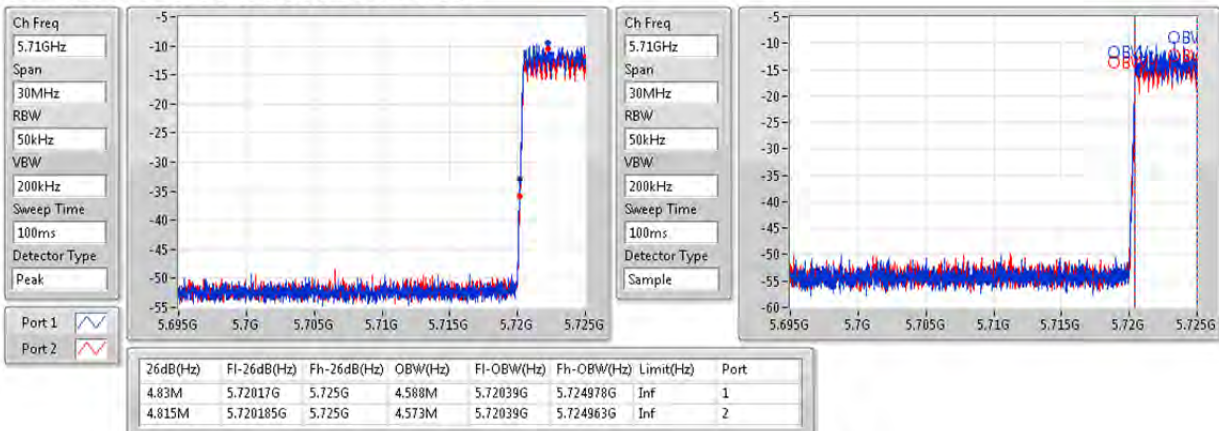
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
QPSK,10M_Nss1_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	4.8M	4.638M	4.8M	4.638M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	4.8M	4.558M	4.8M	4.558M
5255MHz	Pass	Inf	9.725M	9.195M	9.725M	9.183M
5300MHz	Pass	Inf	9.75M	9.195M	9.775M	9.195M
5340MHz	Pass	Inf	9.738M	9.17M	9.713M	9.183M
5480MHz	Pass	Inf	9.763M	9.195M	9.7M	9.195M
5595MHz	Pass	Inf	9.713M	9.195M	9.725M	9.195M
5715MHz	Pass	Inf	9.738M	9.183M	9.713M	9.195M
5725MHz Straddle 5.47-5.725GHz	Pass	Inf	4.83M	4.588M	4.815M	4.573M
5725MHz Straddle 5.725-5.85GHz	Pass	500k	4.64M	4.598M	4.64M	4.598M
QPSK,40M_Nss1_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	Inf	21.28M	18.791M	21.2M	18.471M
5250MHz Straddle 5.25-5.35GHz	Pass	Inf	21.52M	18.551M	21.28M	18.471M
5300MHz	Pass	Inf	42.5M	36.982M	42.85M	36.882M
5330MHz	Pass	Inf	42.9M	37.031M	43M	36.982M
5490MHz	Pass	Inf	42.85M	36.932M	42.5M	36.982M
5580MHz	Pass	Inf	43M	36.882M	42.75M	36.932M
5720MHz Straddle 5.47-5.725GHz	Pass	Inf	26.355M	23.368M	26.39M	23.403M
5720MHz Straddle 5.725-5.85GHz	Pass	500k	13.58M	13.573M	13.58M	13.513M

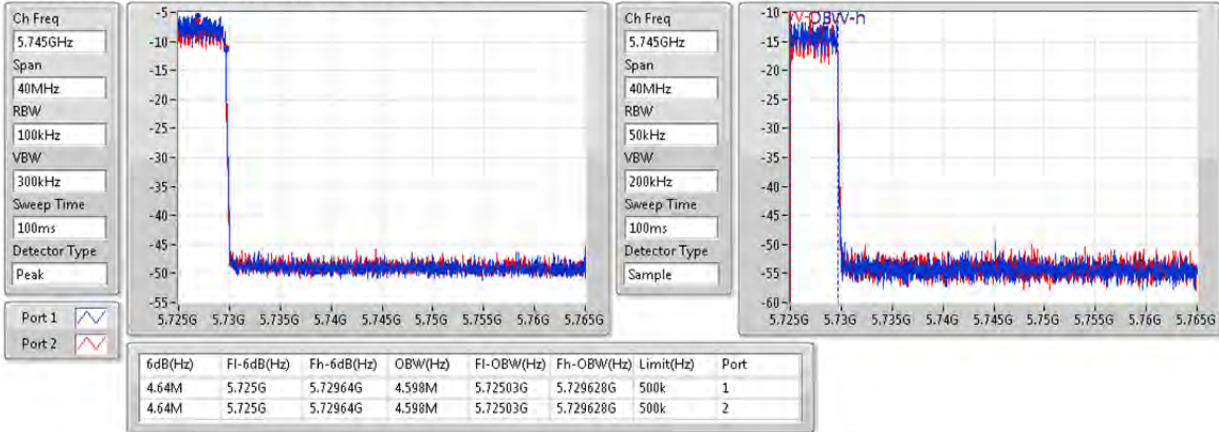
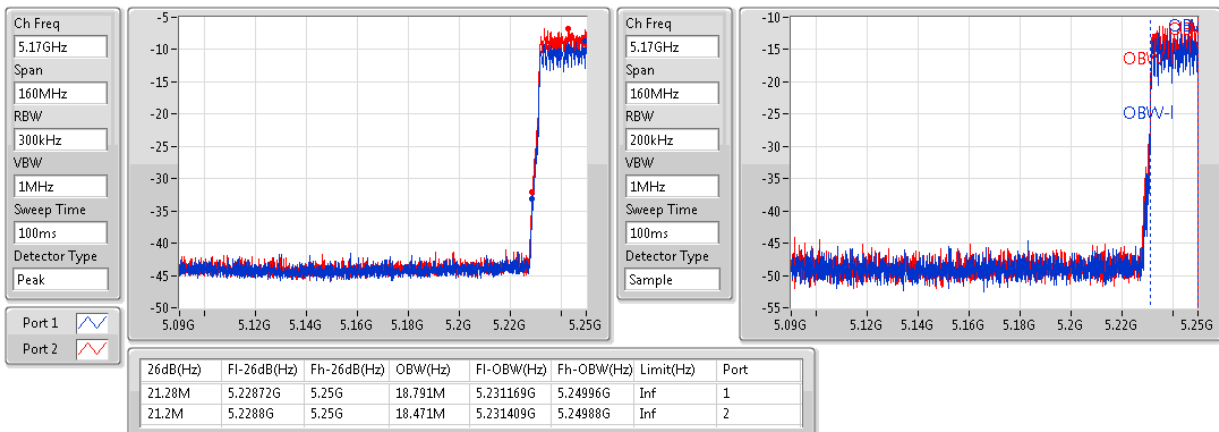
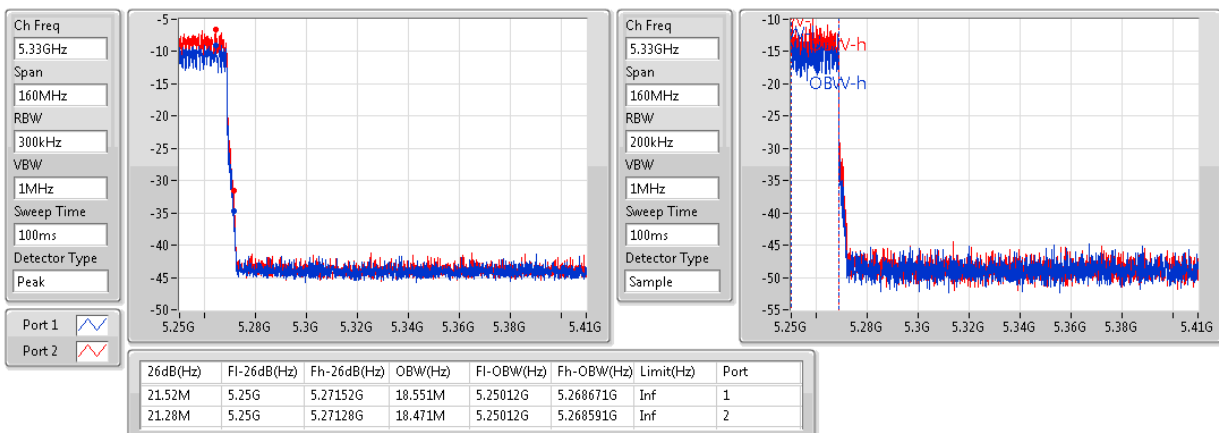
Port X-N dB = Port X 6dB down bandwidth for 5.725-5.85GHz band / 26dB down bandwidth for other band

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

QPSK,10M_Nss1_2TX
EBW
5250MHz

QPSK,10M_Nss1_2TX
EBW
5250MHz

QPSK,10M_Nss1_2TX
EBW
5255MHz


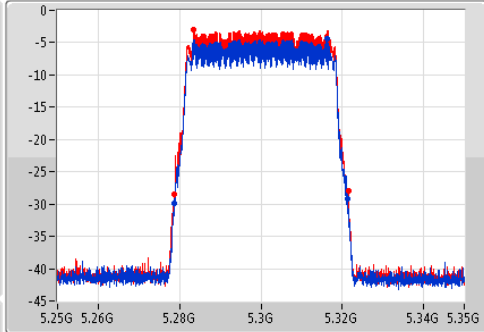
QPSK,10M_Nss1_2TX
EBW
5300MHz

QPSK,10M_Nss1_2TX
EBW
5340MHz

QPSK,10M_Nss1_2TX
EBW
5480MHz


QPSK,10M_Nss1_2TX
EBW
5595MHz

QPSK,10M_Nss1_2TX
EBW
5715MHz

QPSK,10M_Nss1_2TX
EBW
5725MHz Straddle 5.47-5.725GHz


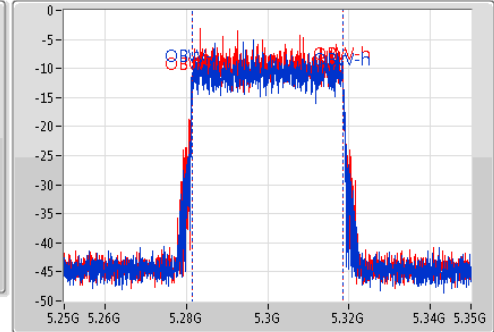
QPSK,10M_Nss1_2TX
EBW
5725MHz Straddle 5.725-5.85GHz

QPSK,40M_Nss1_2TX
EBW
5250MHz

QPSK,40M_Nss1_2TX
EBW
5250MHz


QPSK,40M_Nss1_2TX
EBW
5300MHz

Ch Freq
5.3GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



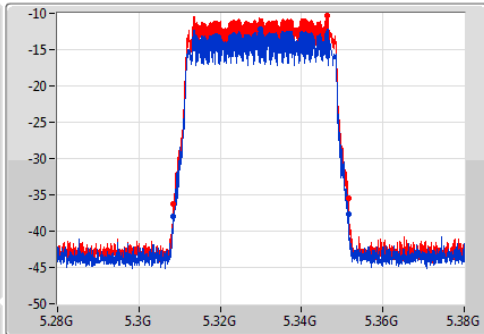
Ch Freq
5.3GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample
Port 1
Port 2



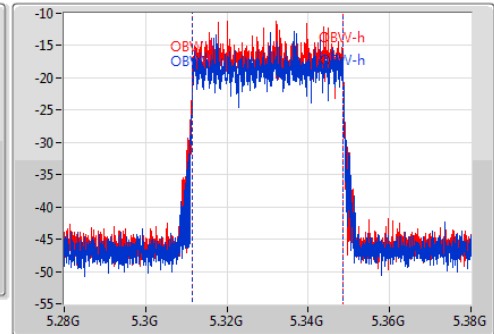
26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.5M	5.27875G	5.32125G	36.982M	5.281559G	5.318541G	Inf	1
42.85M	5.2787G	5.32155G	36.982M	5.281609G	5.318491G	Inf	2

QPSK,40M_Nss1_2TX
EBW
5330MHz

Ch Freq
5.33GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



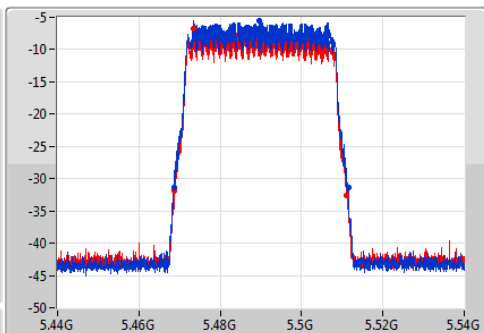
Ch Freq
5.33GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample
Port 1
Port 2



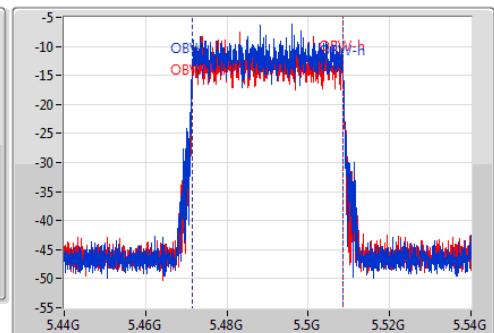
26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.9M	5.30855G	5.35145G	37.031M	5.311559G	5.348591G	Inf	1
43M	5.30845G	5.35145G	36.982M	5.311559G	5.348541G	Inf	2

QPSK,40M_Nss1_2TX
EBW
5490MHz

Ch Freq
5.49GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak
Port 1
Port 2



Ch Freq
5.49GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample
Port 1
Port 2

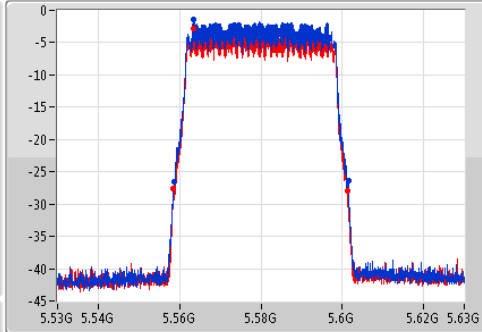


26dB(Hz)	FI-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	FI-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
42.85M	5.4686G	5.51145G	36.932M	5.471559G	5.508491G	Inf	1
42.5M	5.46865G	5.51115G	36.982M	5.471559G	5.508541G	Inf	2

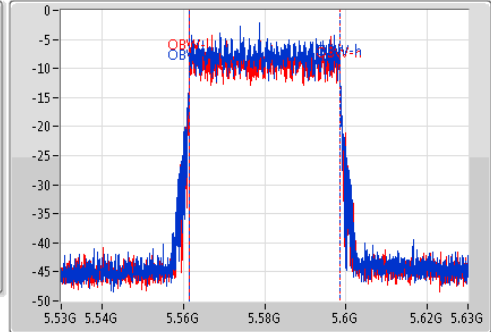
QPSK,40M_Nss1_2TX
EBW
5580MHz

Ch Freq
5.58GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Peak

Port 1
Port 2



Ch Freq
5.58GHz
Span
100MHz
RBW
500kHz
VBW
2MHz
Sweep Time
100ms
Detector Type
Sample

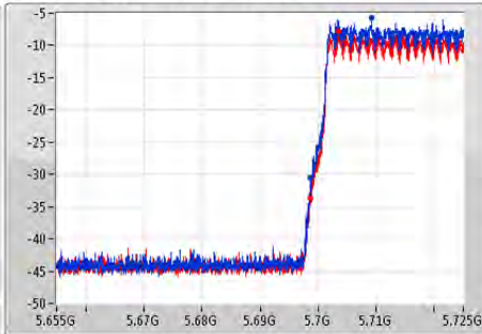


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
43M	5.5586G	5.6016G	36.882M	5.561609G	5.598491G	Inf	1
42.75M	5.5585G	5.60125G	36.932M	5.561609G	5.598541G	Inf	2

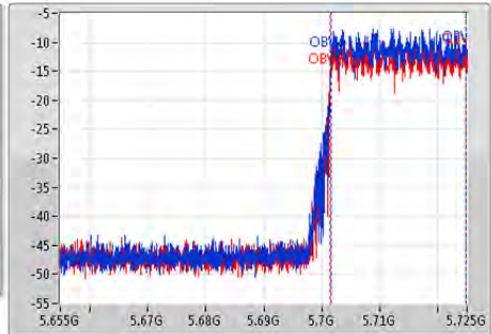
QPSK,40M_Nss1_2TX
EBW
5720MHz Straddle 5.47-5.725GHz

Ch Freq
5.69GHz
Span
70MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Peak

Port 1
Port 2



Ch Freq
5.69GHz
Span
70MHz
RBW
300kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample

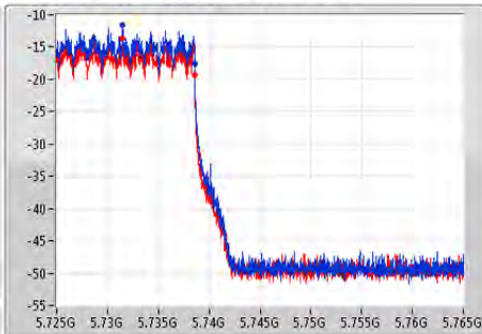


26dB(Hz)	Fl-26dB(Hz)	Fh-26dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
26.355M	5.698645G	5.725G	23.368M	5.701509G	5.724878G	Inf	1
26.39M	5.69861G	5.725G	23.403M	5.701474G	5.724878G	Inf	2

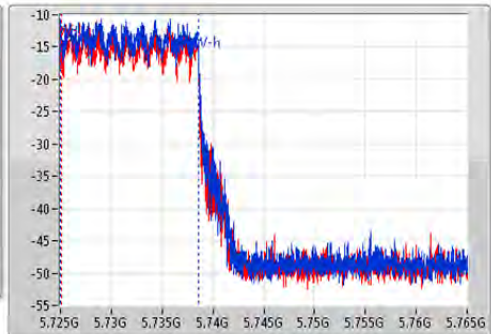
QPSK,40M_Nss1_2TX
EBW
5720MHz Straddle 5.725-5.85GHz

Ch Freq
5.745GHz
Span
40MHz
RBW
100kHz
VBW
300kHz
Sweep Time
100ms
Detector Type
Peak

Port 1
Port 2



Ch Freq
5.745GHz
Span
40MHz
RBW
200kHz
VBW
1MHz
Sweep Time
100ms
Detector Type
Sample



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
13.58M	5.725G	5.73858G	13.573M	5.72505G	5.738623G	500k	1
13.58M	5.725G	5.73858G	13.513M	5.72509G	5.738603G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
QPSK,10M_Nss1_2TX	-	-
5.15-5.25GHz	-0.64	0.00086
5.25-5.35GHz	3.18	0.00208
5.47-5.725GHz	2.73	0.00187
5.725-5.85GHz	0.23	0.00105
QPSK,40M_Nss1_2TX	-	-
5.15-5.25GHz	0.78	0.00120
5.25-5.35GHz	6.20	0.00417
5.47-5.725GHz	8.05	0.00638
5.725-5.85GHz	5.91	0.00390

Result

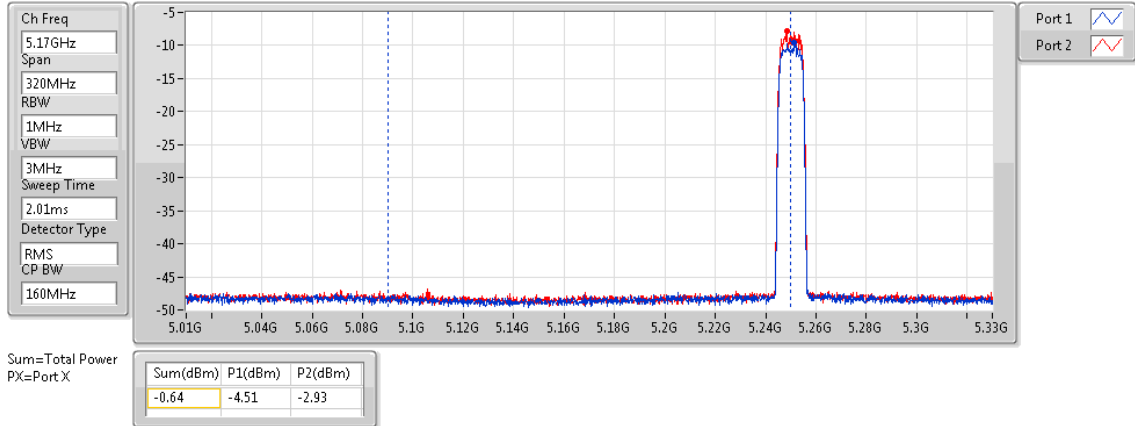
Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
QPSK,10M_Nss1_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	17.00	-4.51	-2.93	-0.64	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	17.00	-4.3	-2.4	-0.24	6.81
5255MHz	Pass	17.00	-0.92	0.26	2.72	9.88
5300MHz	Pass	17.00	-0.81	0.38	2.84	9.89
5340MHz	Pass	17.00	-0.38	0.66	3.18	9.87
5480MHz	Pass	17.00	-0.02	-0.61	2.71	9.87
5595MHz	Pass	17.00	0.1	-0.86	2.66	9.87
5715MHz	Pass	17.00	0.23	-0.87	2.73	9.87
5725MHz Straddle 5.47-5.725GHz	Pass	17.00	-2.61	-3.94	-0.21	6.83
5725MHz Straddle 5.725-5.85GHz	Pass	17.00	-2.1	-3.59	0.23	30.00
QPSK,40M_Nss1_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	17.00	-5.03	-3.16	-0.98	30.00
5250MHz Straddle 5.25-5.35GHz	Pass	17.00	-4.55	-3.05	-0.73	12.98
5300MHz	Pass	17.00	2.31	3.92	6.20	12.98
5330MHz	Pass	17.00	-5.88	-4.03	-1.85	12.98
5490MHz	Pass	17.00	1.04	-0.35	3.41	12.98
5580MHz	Pass	17.00	5.67	4.3	8.05	12.98
5720MHz Straddle 5.47-5.725GHz	Pass	17.00	2.63	1.11	4.95	12.98
5720MHz Straddle 5.725-5.85GHz	Pass	17.00	-1	-2.17	1.46	30.00

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

QPSK,10M_Nss1_2TX

AV Power

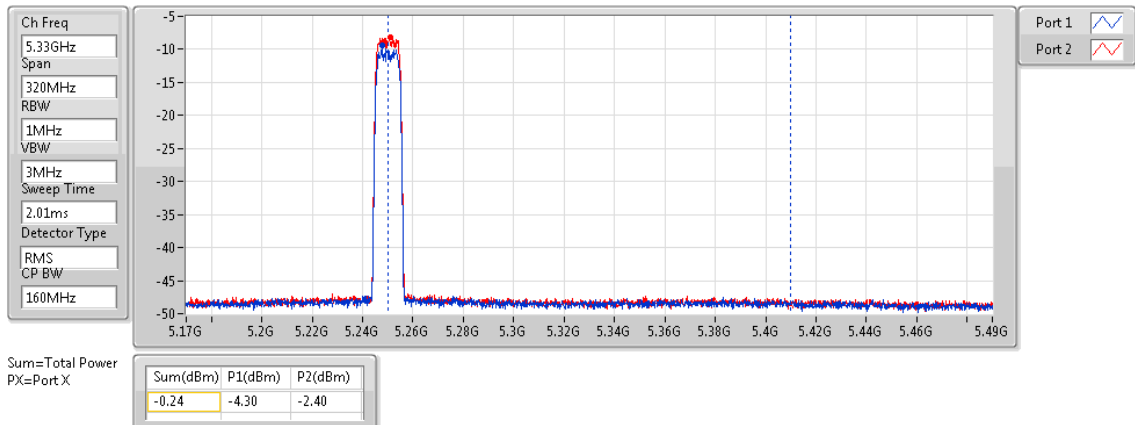
5250MHz



QPSK,10M_Nss1_2TX

AV Power

5250MHz



QPSK,10M_Nss1_2TX

AV Power

5725MHz Straddle 5.47-5.725GHz



QPSK,10M_Nss1_2TX

AV Power

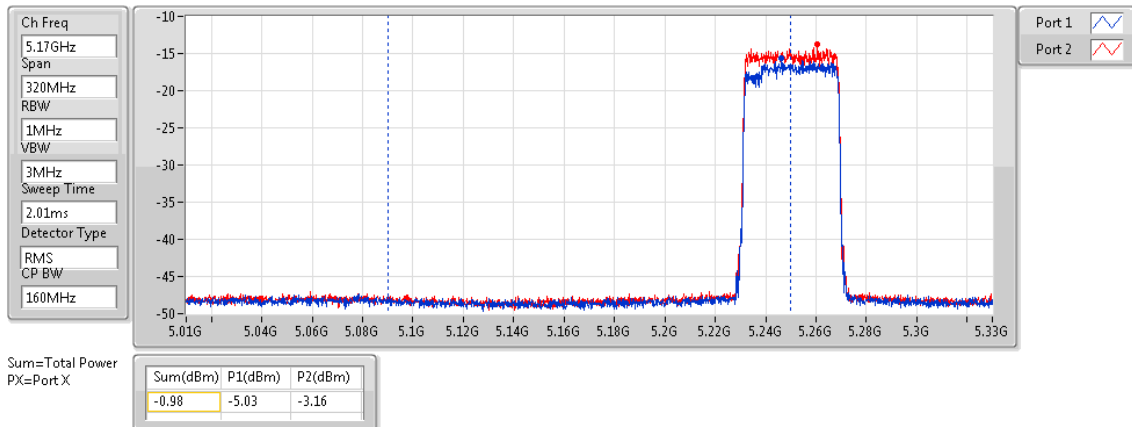
5725MHz Straddle 5.725-5.85GHz



QPSK,40M_Nss1_2TX

AV Power

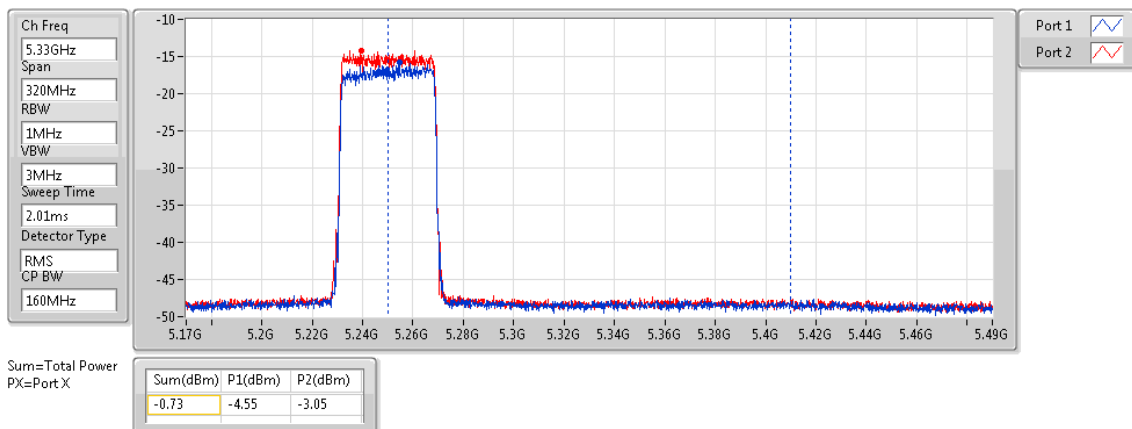
5250MHz



QPSK,40M_Nss1_2TX

AV Power

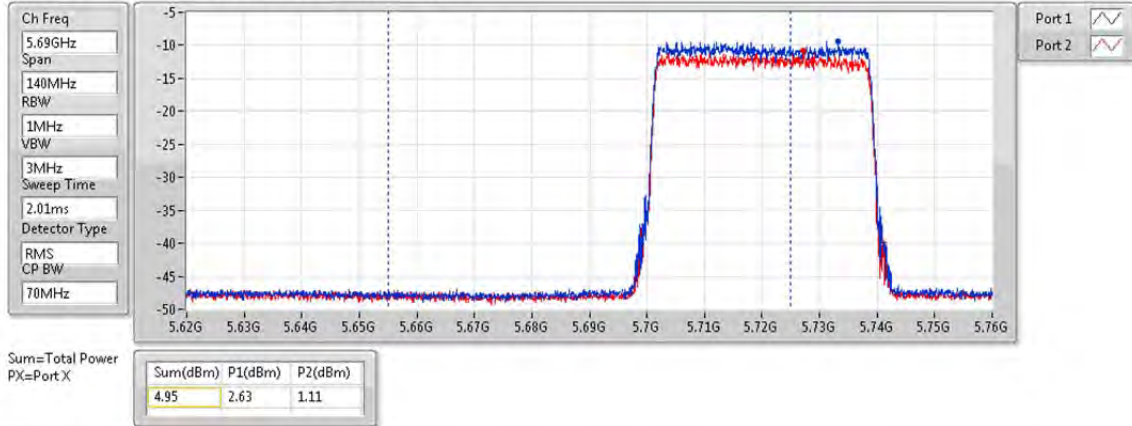
5250MHz



QPSK,40M_Nss1_2TX

AV Power

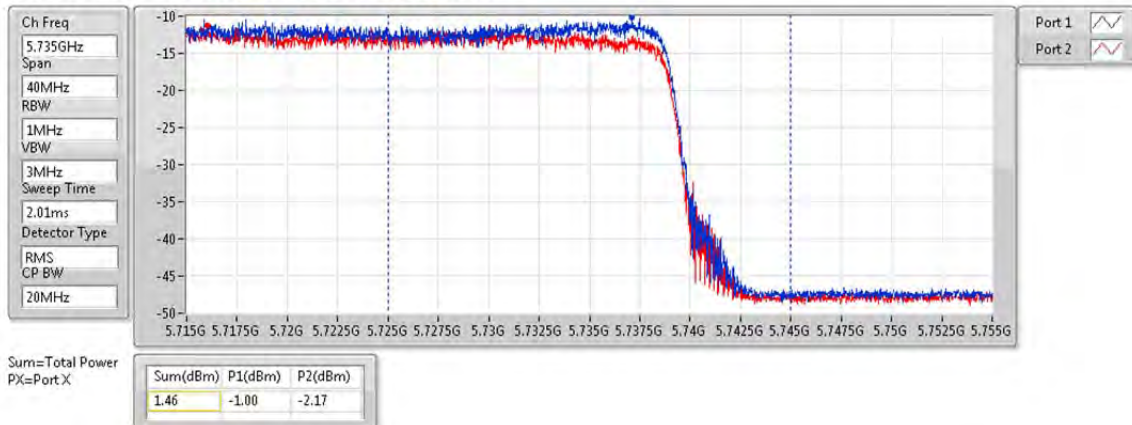
5720MHz Straddle 5.47-5.725GHz



QPSK,40M_Nss1_2TX

AV Power

5720MHz Straddle 5.725-5.85GHz



Frequency (MHz)	Modulation	Data Rate	Radiated Pass Setting	Band-edge	Harmonic	Conducted Pass Setting	Test equipment		Anritsu Power Meter	BF/Non BF Power Limit dBm
									Loss Offset (dB)	
				under	under				21.5	
				dB	dB				Total	
5250	10M	QPSK	60/5D	-5.74	-6.72	4F/4C	73	75	dBm	13.00
5255	10M	QPSK	5E/72	-5.72	-6.46	5B/5C	Port 1	Port 2		13.00
5300	10M	QPSK	7B/5D	-5.85	-6.44	5E/5E				13.00
5340	10M	QPSK	62/65	-5.73	-6.56	5D/5D				13.00
5480	10M	QPSK	62/5D	-3.81	-6.74	5E/5F				13.00
5595	10M	QPSK	60/68	-5.24	-7.09	5F/5E				13.00
5715	10M	QPSK	70/55	-4.84	-6.23	59/55				13.00
5725	10M	QPSK	5B/5A	-6.67	-7.80	49/48				13.00
5245	40M	QPSK	1C/1B	-0.32	-6.01	1C/1B				30.00
5250	40M	QPSK	1E/1D	-0.77	-6.57	53/52				30.00
5300	40M	QPSK	5E/5A	-5.77	-6.58	5E/5A				13.00
5330	40M	QPSK	90/8C	-0.09	-6.46	90/8C				13.00
5490	40M	QPSK	5E/5B	-3.95	-7.74	5E/5B				13.00
5580	40M	QPSK	5D/5A	-5.55	-7.21	5D/5A				13.00
5720	40M	QPSK	57/52	-5.42	-7.52	52/4D				13.00
5725	40M	QPSK	0B/00	-5.64	-7.61	4A/43				30.00

Summary

Mode	PD (dBm/RBW)
QPSK,10M_Nss1_2TX	-
5.15-5.25GHz	-7.61
5.25-5.35GHz	-7.07
5.47-5.725GHz	-7.51
5.725-5.85GHz	-8.88
QPSK,40M_Nss1_2TX	-
5.15-5.25GHz	-13.31
5.25-5.35GHz	-9.66
5.47-5.725GHz	-7.35
5.725-5.85GHz	-8.34

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

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
QPSK,10M_Nss1_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	20.01	-11.71	-9.76	-7.61	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	20.01	-11.9	-9.92	-7.86	-3.01
5255MHz	Pass	20.01	-10.99	-9.37	-7.23	-3.01
5300MHz	Pass	20.01	-10.9	-9.69	-7.43	-3.01
5340MHz	Pass	20.01	-10.4	-9.33	-7.07	-3.01
5480MHz	Pass	20.01	-10.22	-10.8	-7.51	-3.01
5595MHz	Pass	20.01	-10.04	-11.04	-7.53	-3.01
5715MHz	Pass	20.01	-10.07	-11.22	-7.60	-3.01
5725MHz Straddle 5.47-5.725GHz	Pass	20.01	-9.98	-10.95	-7.61	-3.01
5725MHz Straddle 5.725-5.85GHz	Pass	20.01	-11.27	-12.21	-8.88	30.00
QPSK,40M_Nss1_2TX	-	-	-	-	-	-
5250MHz Straddle 5.15-5.25GHz	Pass	20.01	-18.24	-16.38	-14.27	17.00
5250MHz Straddle 5.25-5.35GHz	Pass	20.01	-18.37	-16.56	-14.37	-3.01
5300MHz	Pass	20.01	-13.37	-11.91	-9.66	-3.01
5330MHz	Pass	20.01	-21.12	-19.38	-17.24	-3.01
5490MHz	Pass	20.01	-14.54	-15.84	-12.14	-3.01
5580MHz	Pass	20.01	-9.8	-11.42	-7.66	-3.01
5720MHz Straddle 5.47-5.725GHz	Pass	20.01	-11.41	-12.97	-9.15	-3.01
5720MHz Straddle 5.725-5.85GHz	Pass	20.01	-13.21	-14.75	-10.98	30.00

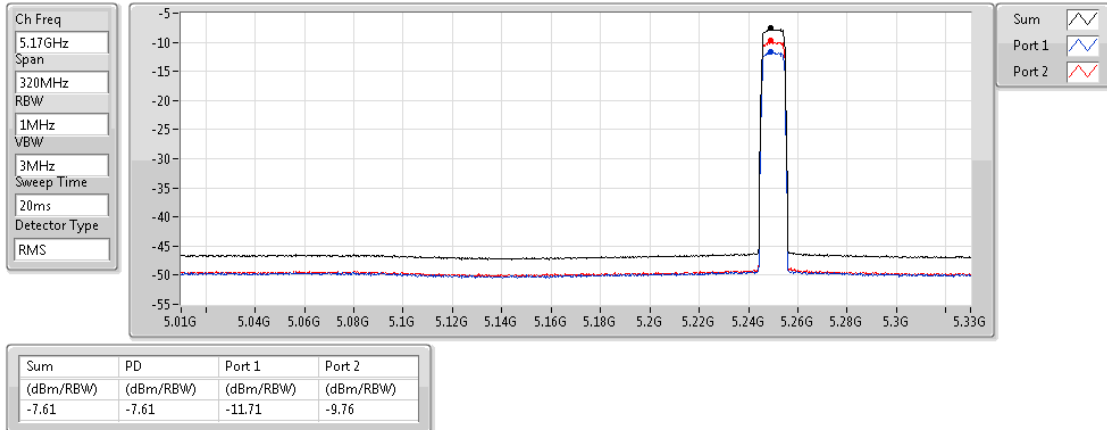
DG = Directional Gain; **RBW** = 500kHz for 5.725-5.85GHz band / 1MHz for other band;

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

QPSK,10M_Nss1_2TX

PSD

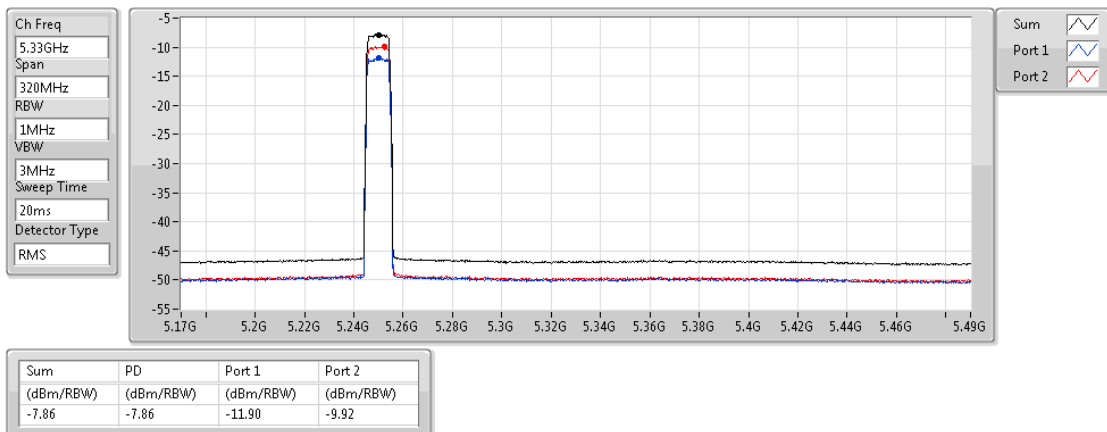
5250MHz



QPSK,10M_Nss1_2TX

PSD

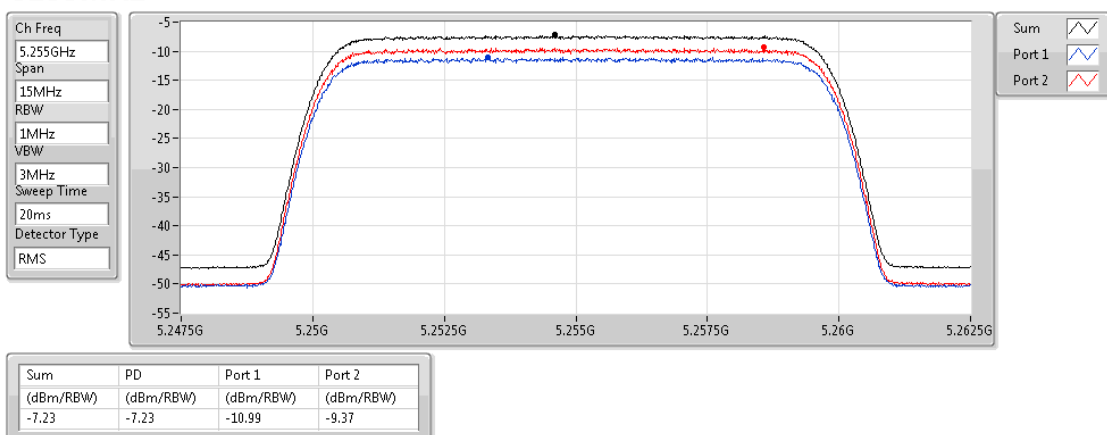
5250MHz



QPSK,10M_Nss1_2TX

PSD

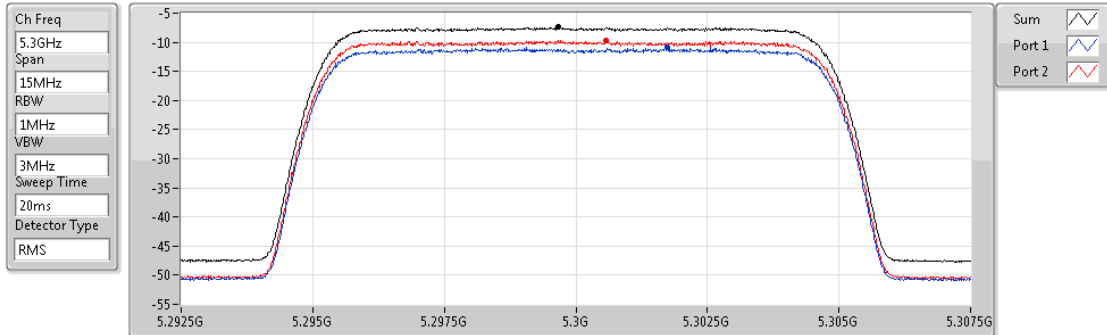
5255MHz



QPSK,10M_Nss1_2TX

PSD

5300MHz

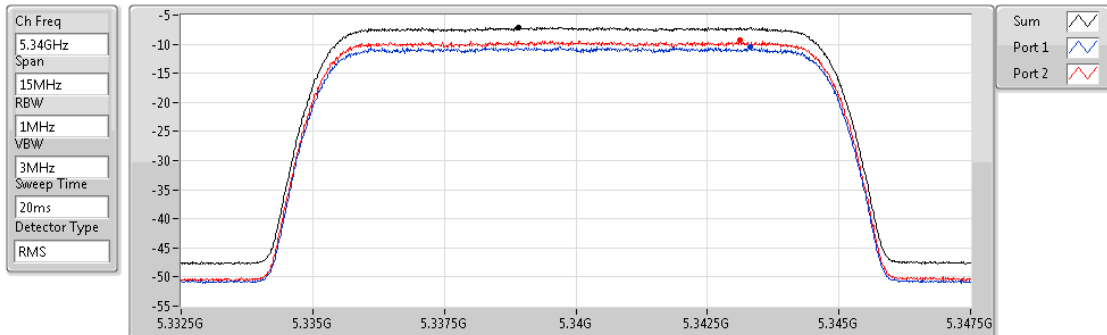


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.43	-7.43	-10.90	-9.69

QPSK,10M_Nss1_2TX

PSD

5340MHz

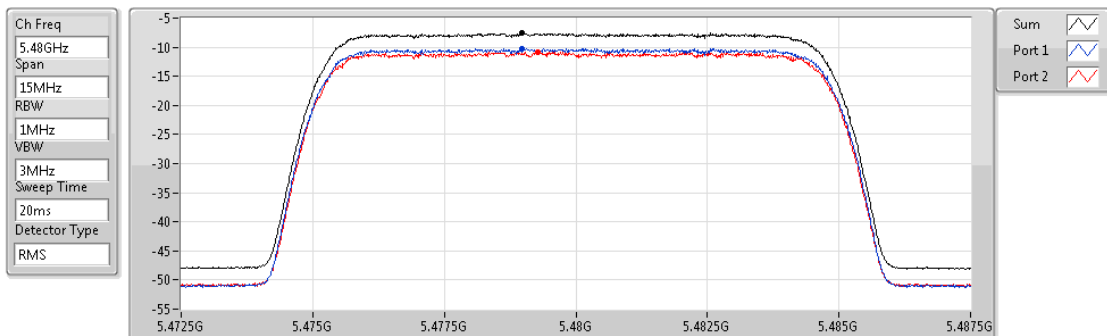


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.07	-7.07	-10.40	-9.33

QPSK,10M_Nss1_2TX

PSD

5480MHz

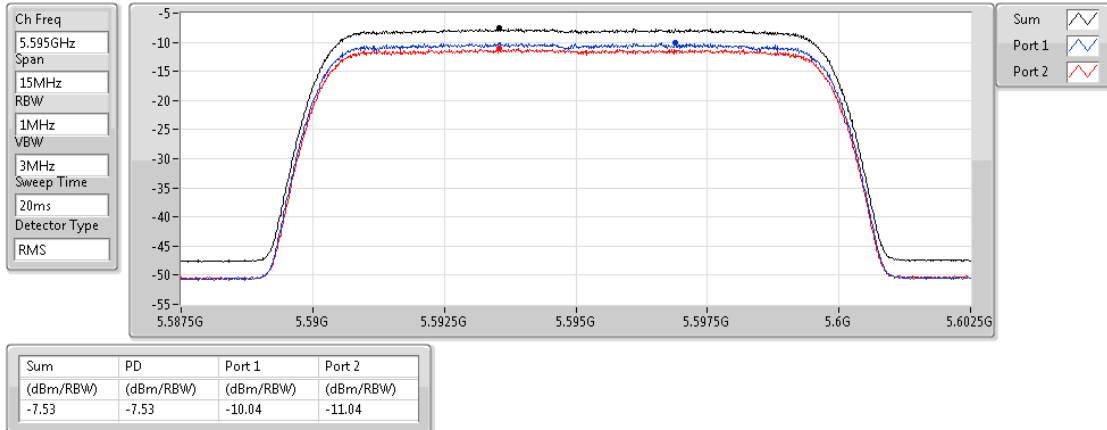


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.51	-7.51	-10.22	-10.80

QPSK,10M_Nss1_2TX

PSD

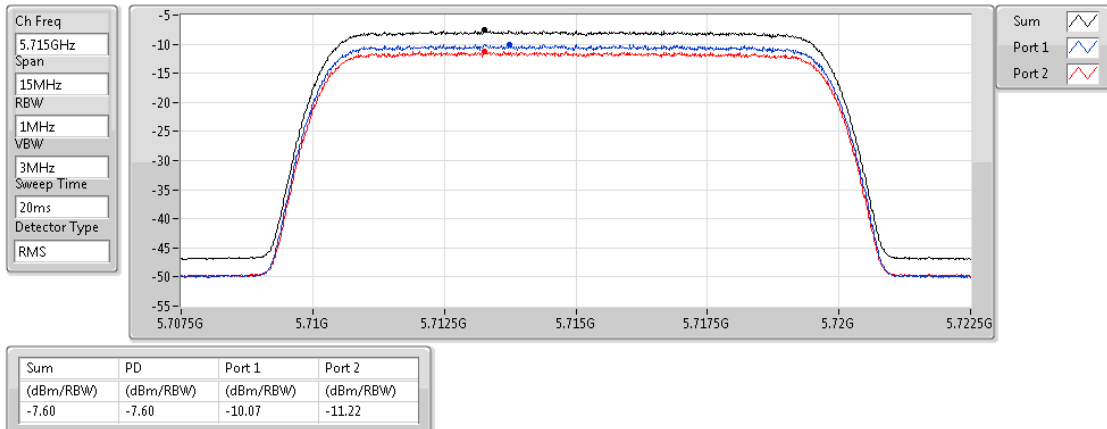
5595MHz



QPSK,10M_Nss1_2TX

PSD

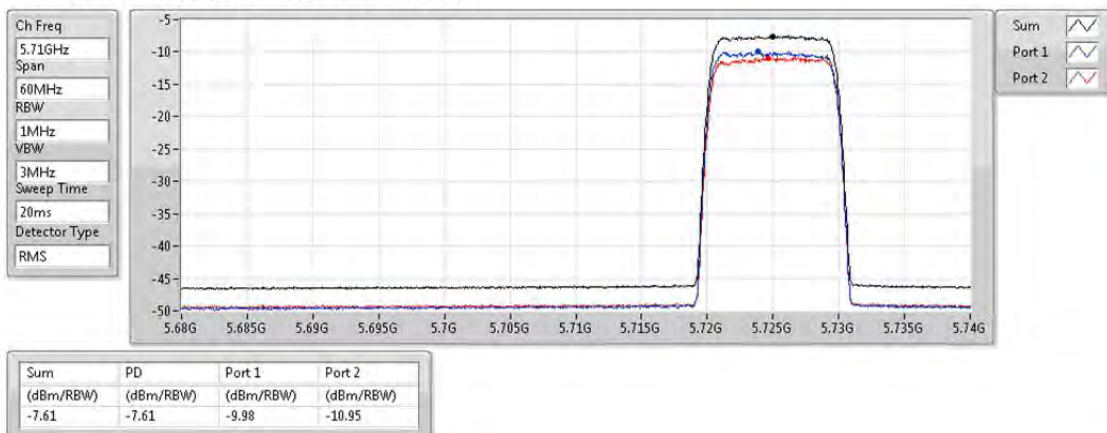
5715MHz



QPSK,10M_Nss1_2TX

PSD

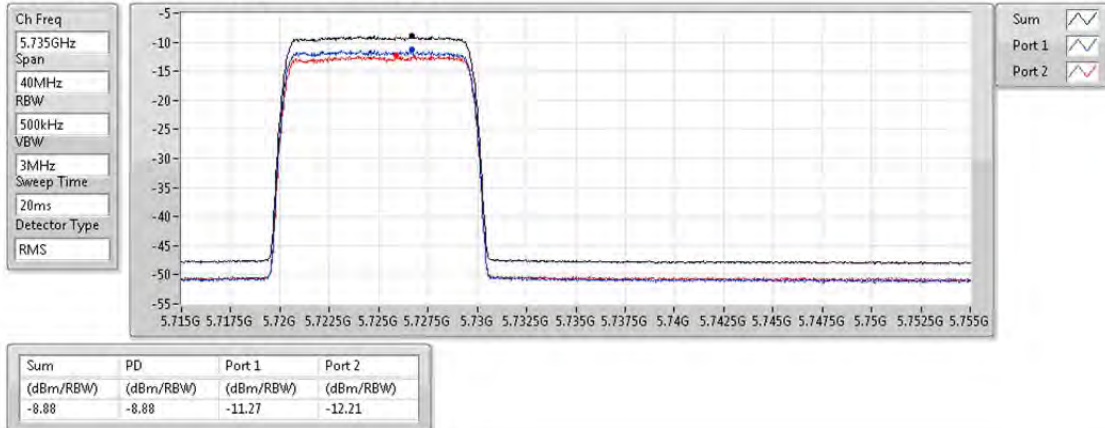
5725MHz Straddle 5.47-5.725GHz



QPSK,10M_Nss1_2TX

PSD

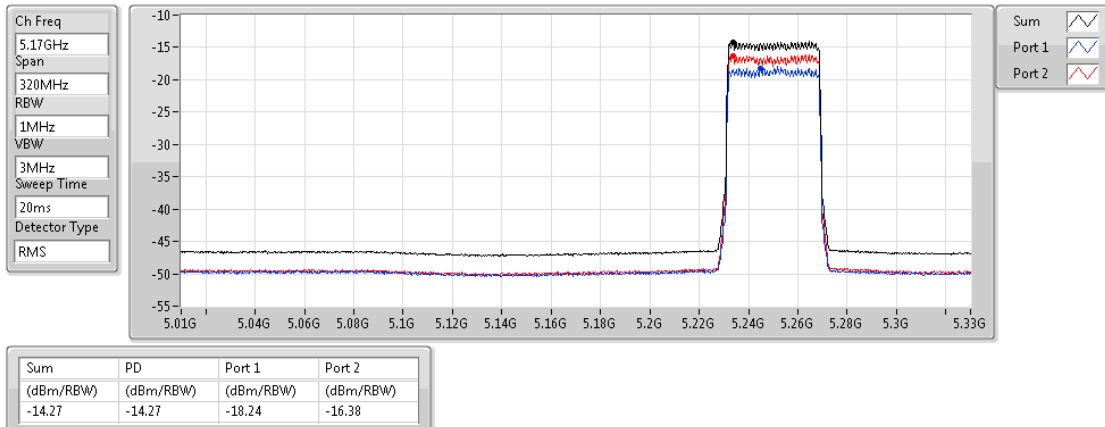
5725MHz Straddle 5.725-5.85GHz



QPSK,40M_Nss1_2TX

PSD

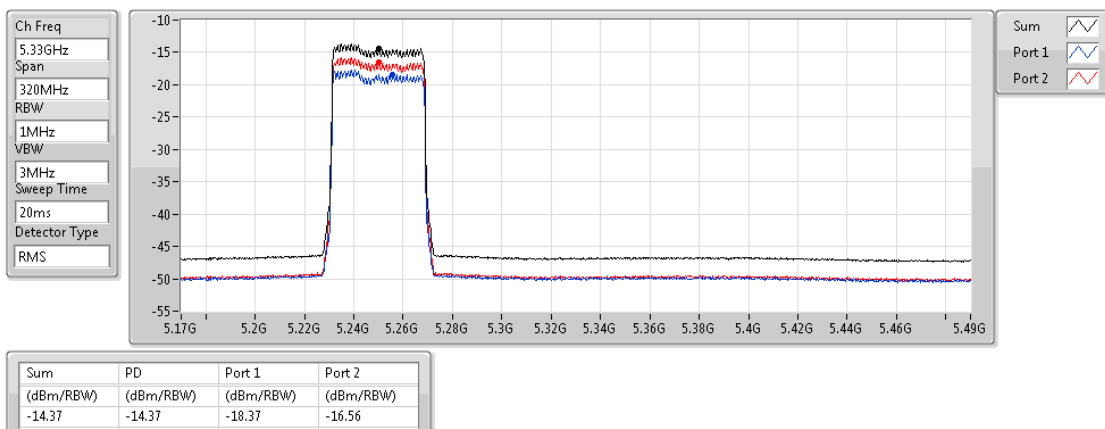
5250MHz



QPSK,40M_Nss1_2TX

PSD

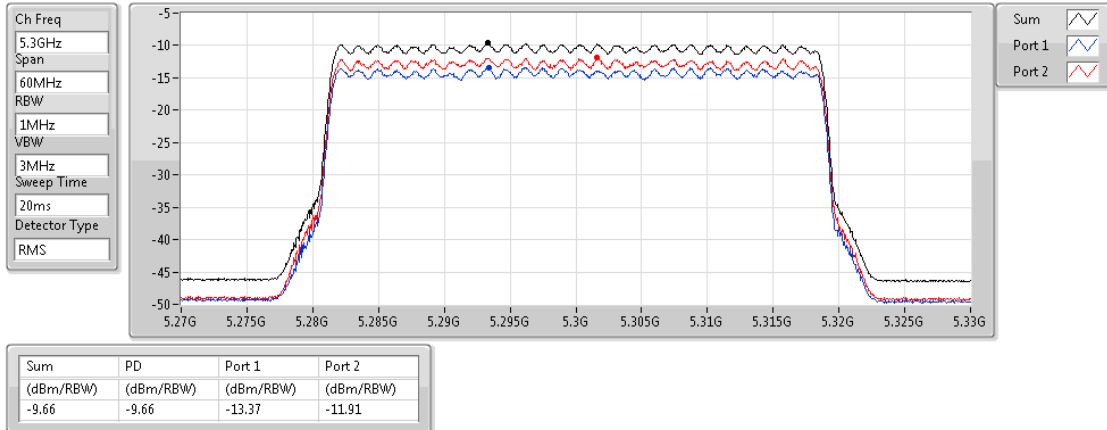
5250MHz



QPSK,40M_Nss1_2TX

PSD

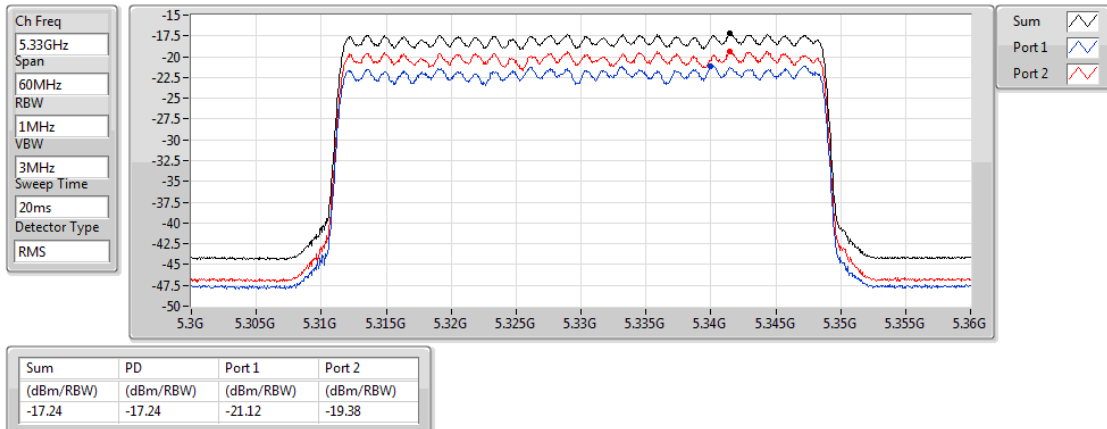
5300MHz



QPSK,40M_Nss1_2TX

PSD

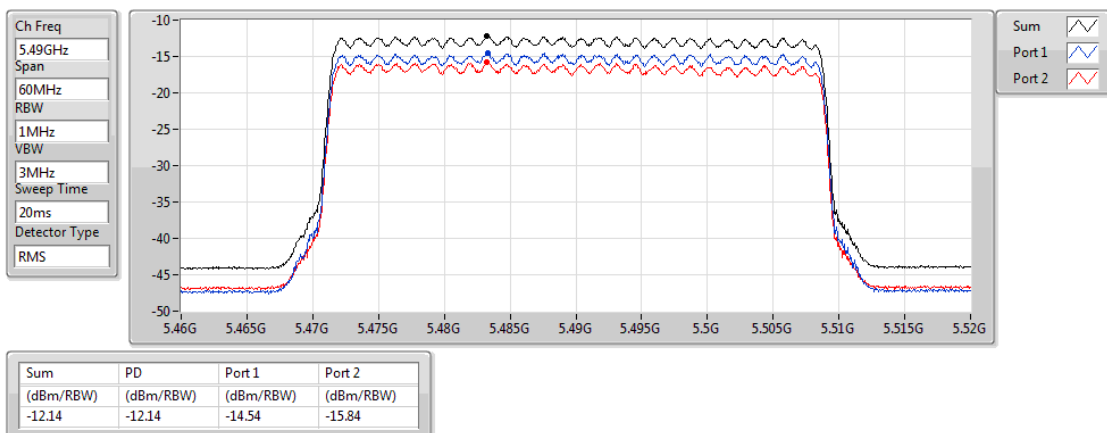
5330MHz



QPSK,40M_Nss1_2TX

PSD

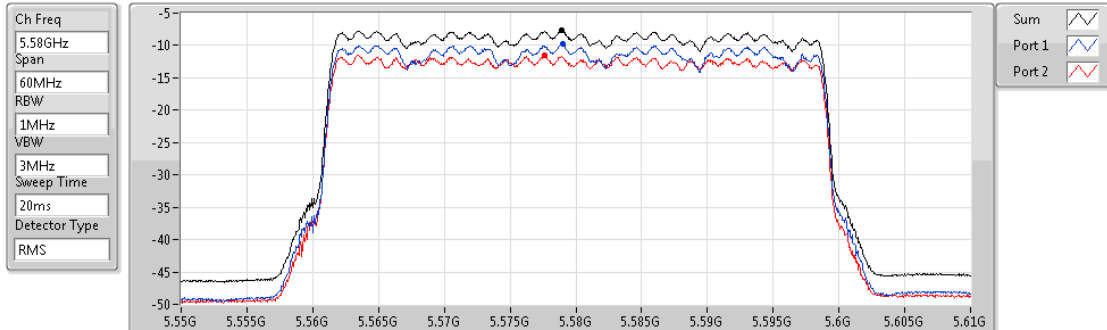
5490MHz



QPSK,40M_Nss1_2TX

PSD

5580MHz

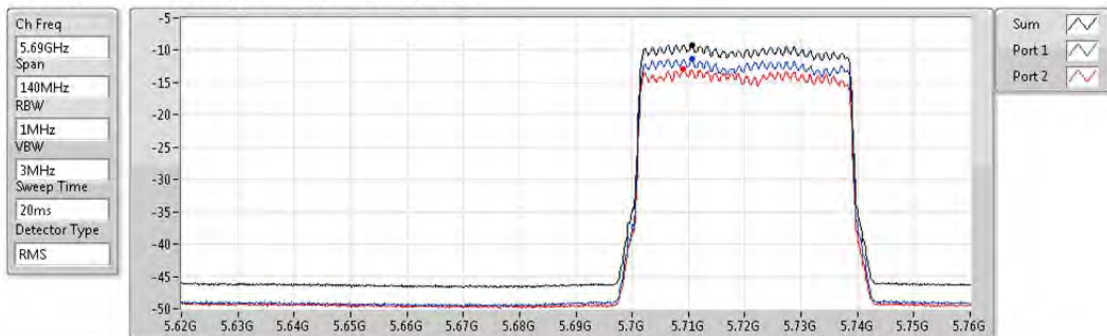


Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-7.66	-7.66	-9.80	-11.42

QPSK,40M_Nss1_2TX

PSD

5720MHz Straddle 5.47-5.725GHz

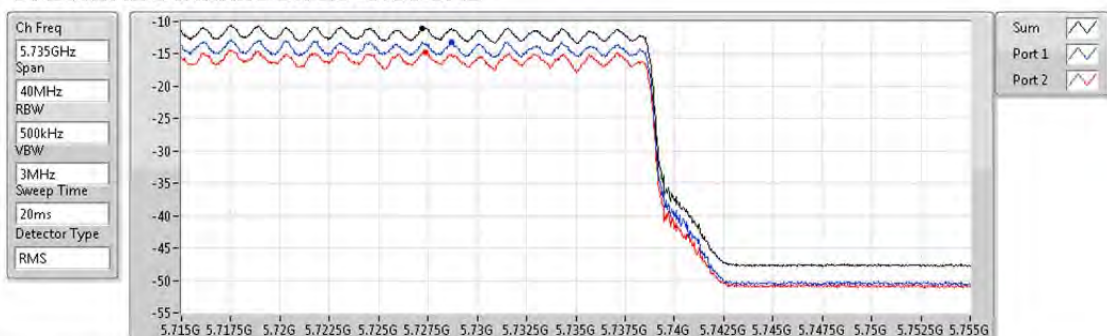


Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-9.15	-9.15	-11.41	-12.97

QPSK,40M_Nss1_2TX

PSD

5720MHz Straddle 5.725-5.85GHz



Sum	PD	Port 1	Port 2
(dBm/Hz)	(dBm/Hz)	(dBm/Hz)	(dBm/Hz)
-10.98	-10.98	-13.21	-14.75



RSE TX above 1GHz Result

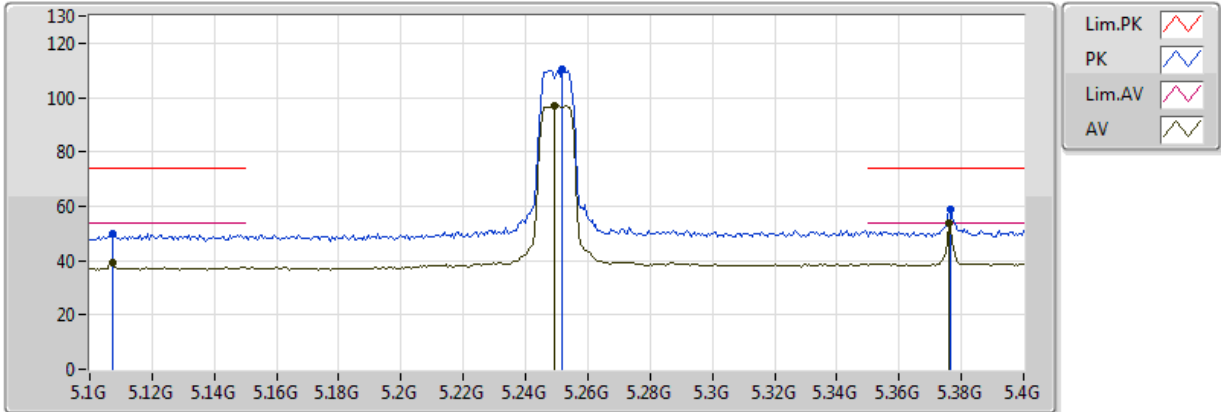
Appendix D

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
QPSK,10M_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-	-
5.25-5.35GHz	Pass	AV	5.376G	53.98	54.00	-0.02	7.56	3	V	91	1.00	-

QPSK,10M_Nss1_2TX

5250MHz_TX

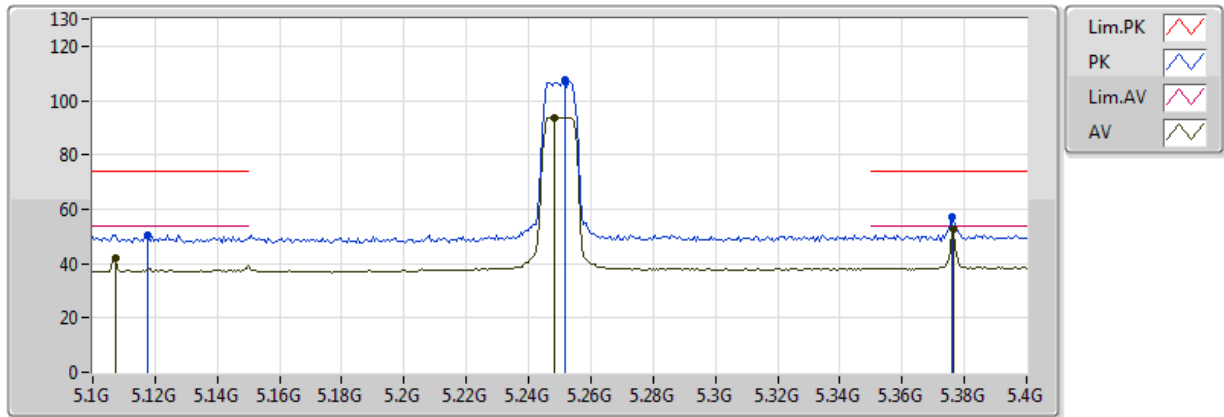


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1072G	39.31	54.00	-14.69	7.21	3	V	91	1.00	-
AV	5.2494G	96.86	Inf	-Inf	7.37	3	V	91	1.00	-
AV	5.376G	53.88	54.00	-0.12	7.56	3	V	91	1.00	-
PK	5.1072G	50.06	74.00	-23.94	7.21	3	V	91	1.00	-
PK	5.2518G	110.42	Inf	-Inf	7.37	3	V	91	1.00	-
PK	5.3766G	58.60	74.00	-15.40	7.56	3	V	91	1.00	-

QPSK,10M_Nss1_2TX

5250MHz_TX

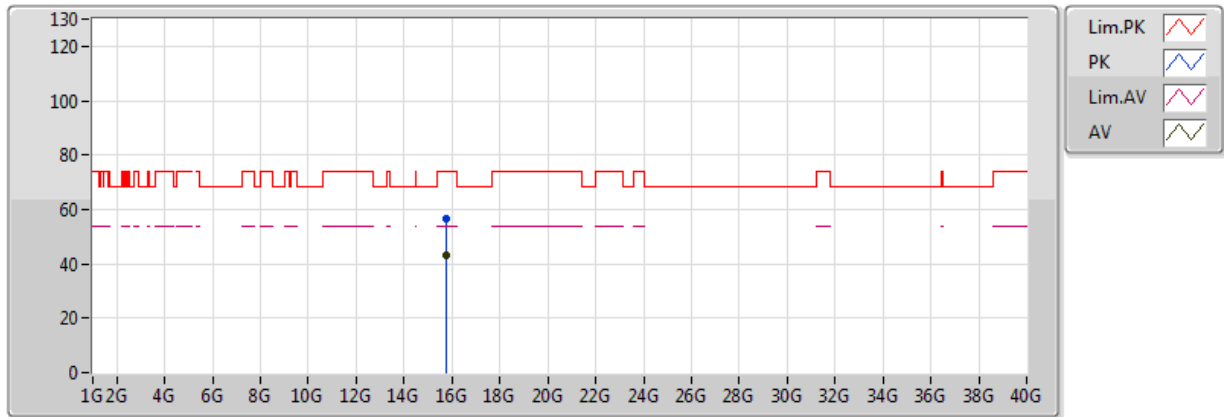


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1072G	41.81	54.00	-12.19	7.21	3	H	91	1.02	-
AV	5.2482G	93.82	Inf	-Inf	7.37	3	H	91	1.02	-
AV	5.3766G	52.55	54.00	-1.45	7.56	3	H	91	1.02	-
PK	5.1174G	50.67	74.00	-23.33	7.22	3	H	91	1.02	-
PK	5.2518G	107.36	Inf	-Inf	7.37	3	H	91	1.02	-
PK	5.376G	57.30	74.00	-16.70	7.56	3	H	91	1.02	-

QPSK,10M_Nss1_2TX

5250MHz_TX

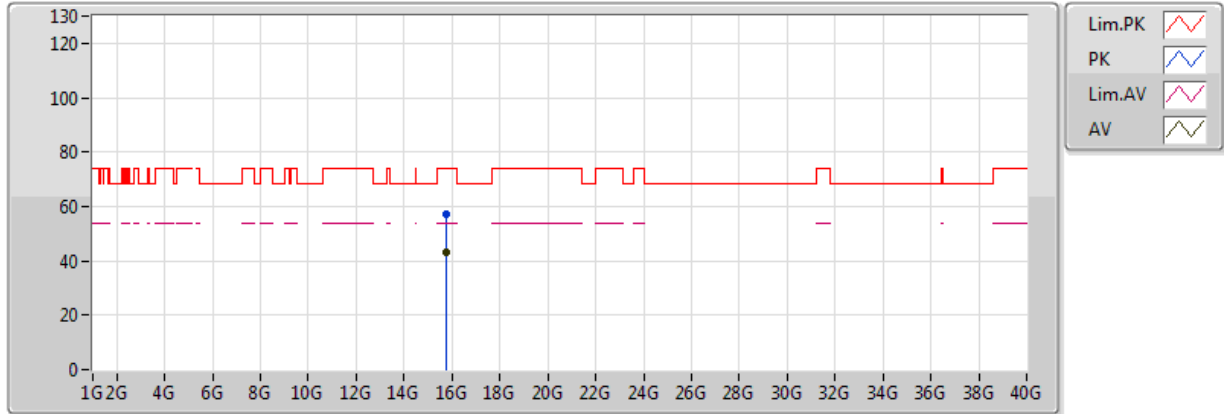


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.75246G	42.88	54.00	-11.12	17.31	3	V	228	1.49	-
PK	15.74782G	56.78	74.00	-17.22	17.33	3	V	228	1.49	-

QPSK,10M_Nss1_2TX

5250MHz_TX

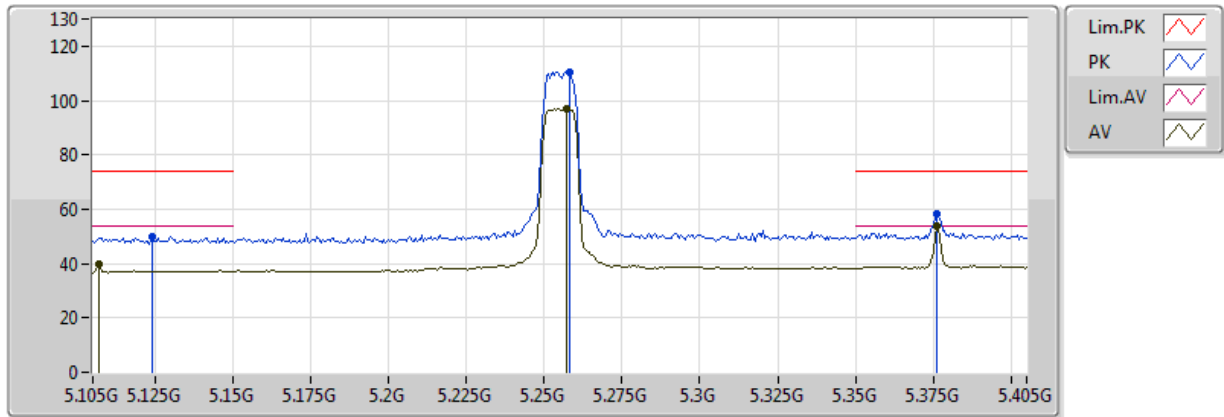


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.74752G	42.97	54.00	-11.03	17.33	3	H	204	1.85	-
PK	15.75161G	57.28	74.00	-16.72	17.32	3	H	204	1.85	-

QPSK,10M_Nss1_2TX

5255MHz_TX

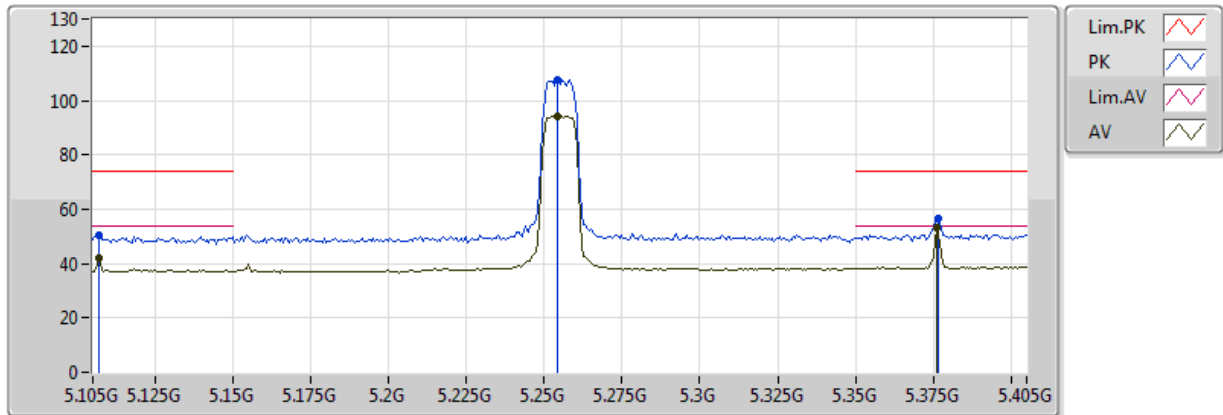


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1068G	39.98	54.00	-14.02	7.21	3	V	91	1.02	-
AV	5.2574G	96.87	Inf	-Inf	7.38	3	V	91	1.02	-
AV	5.3762G	53.81	54.00	-0.19	7.56	3	V	91	1.02	-
PK	5.1242G	49.83	74.00	-24.17	7.22	3	V	91	1.02	-
PK	5.258G	110.53	Inf	-Inf	7.38	3	V	91	1.02	-
PK	5.3762G	58.43	74.00	-15.57	7.56	3	V	91	1.02	-

QPSK,10M_Nss1_2TX

5255MHz_TX

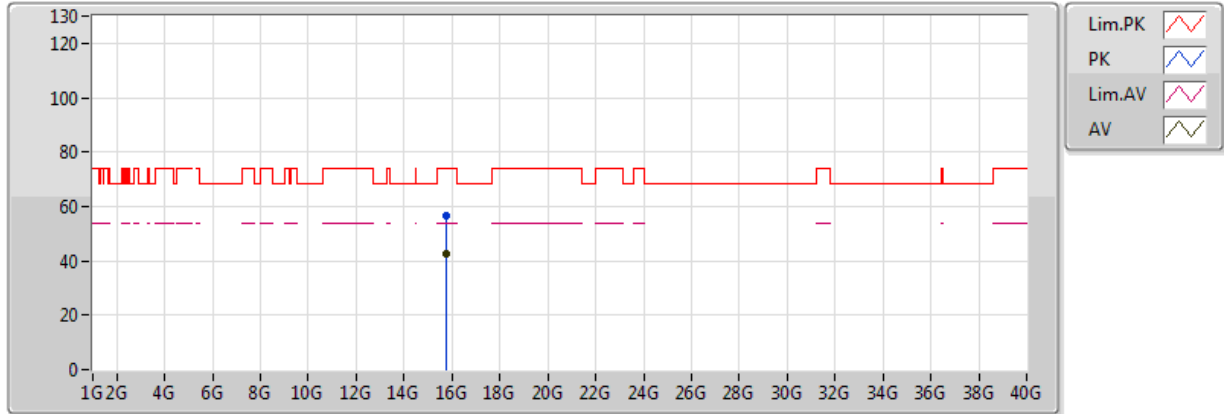


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.1068G	42.05	54.00	-11.95	7.21	3	H	91	1.00	-
AV	5.2544G	94.13	Inf	-Inf	7.38	3	H	91	1.00	-
AV	5.3762G	53.03	54.00	-0.97	7.56	3	H	91	1.00	-
PK	5.1068G	50.58	74.00	-23.42	7.21	3	H	91	1.00	-
PK	5.2544G	107.65	Inf	-Inf	7.38	3	H	91	1.00	-
PK	5.3768G	56.79	74.00	-17.21	7.57	3	H	91	1.00	-

QPSK,10M_Nss1_2TX

5255MHz_TX

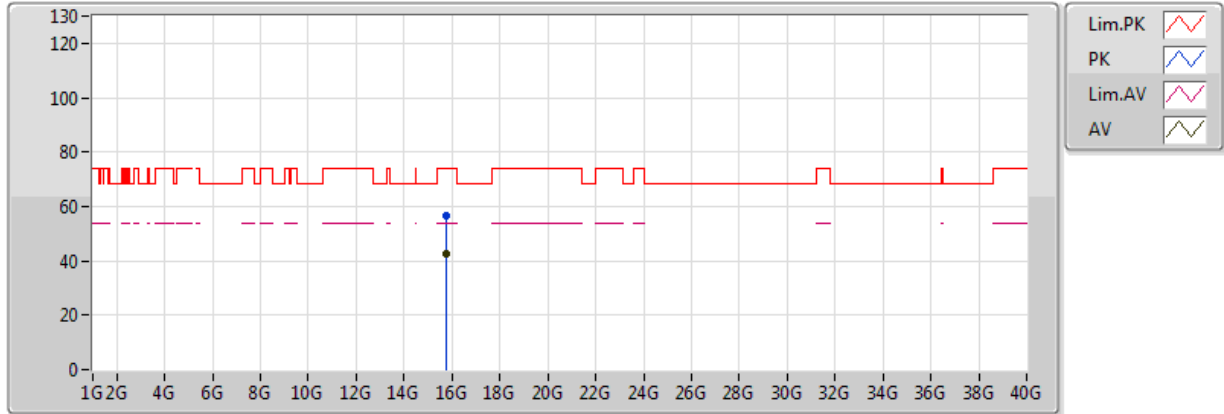


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.76322G	42.68	54.00	-11.32	17.28	3	V	2	1.72	-
PK	15.76713G	56.78	74.00	-17.22	17.27	3	V	2	1.72	-

QPSK,10M_Nss1_2TX

5255MHz_TX

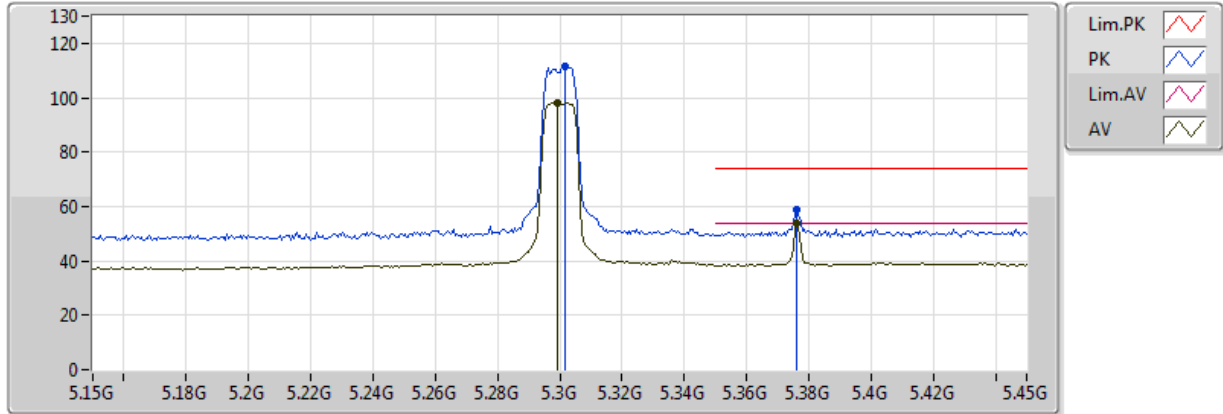


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7625G	42.78	54.00	-11.22	17.28	3	H	49	2.07	-
PK	15.76526G	56.50	74.00	-17.50	17.28	3	H	49	2.07	-

QPSK,10M_Nss1_2TX

5300MHz_TX

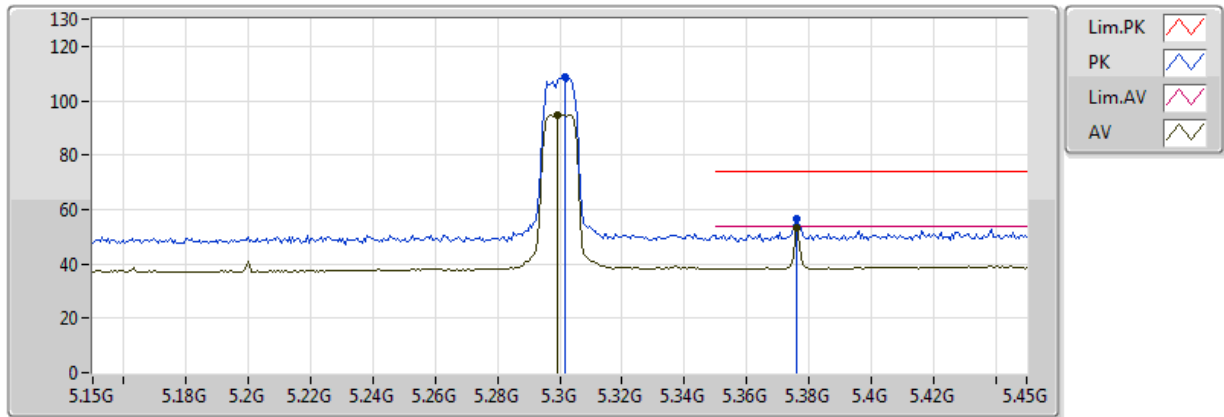


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.2994G	97.91	Inf	-Inf	7.45	3	V	91	1.06	-
AV	5.3762G	53.83	54.00	-0.17	7.56	3	V	91	1.06	-
PK	5.3018G	111.56	Inf	-Inf	7.45	3	V	91	1.06	-
PK	5.3762G	58.61	74.00	-15.39	7.56	3	V	91	1.06	-

QPSK,10M_Nss1_2TX

5300MHz_TX

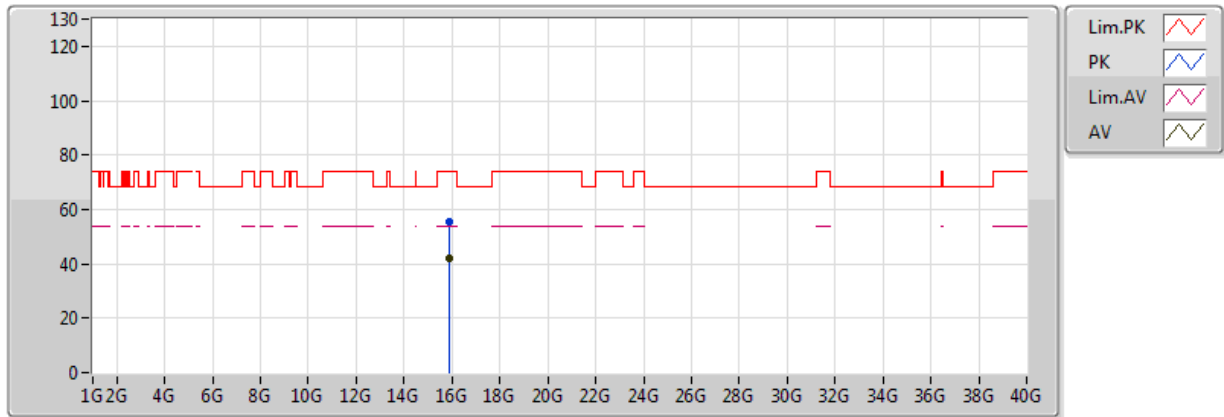


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.2994G	94.73	Inf	-Inf	7.45	3	H	91	1.00	-
AV	5.3762G	53.10	54.00	-0.90	7.56	3	H	91	1.00	-
PK	5.3018G	108.48	Inf	-Inf	7.45	3	H	91	1.00	-
PK	5.3762G	56.78	74.00	-17.22	7.56	3	H	91	1.00	-

QPSK,10M_Nss1_2TX

5300MHz_TX

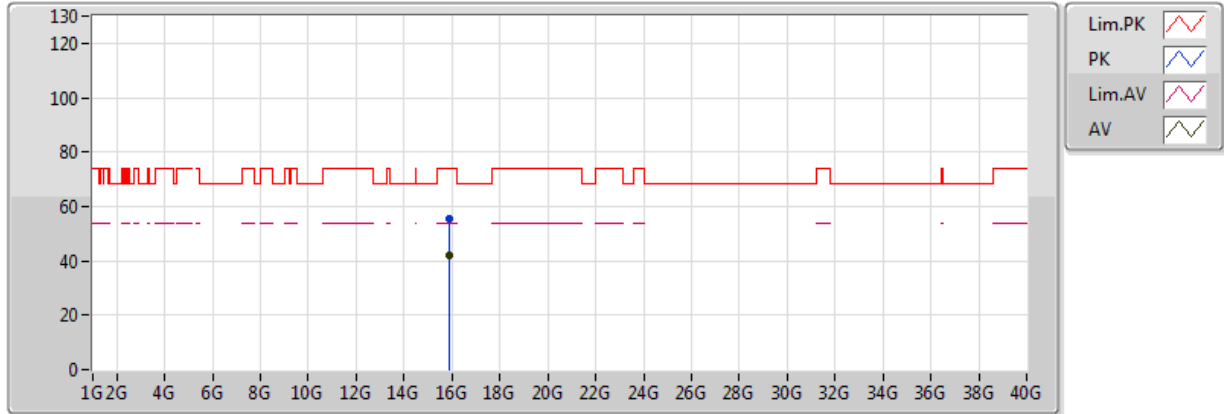


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.9021G	41.95	54.00	-12.05	16.89	3	V	192	2.43	-
PK	15.90031G	55.54	74.00	-18.46	16.89	3	V	192	2.43	-

QPSK,10M_Nss1_2TX

5300MHz_TX

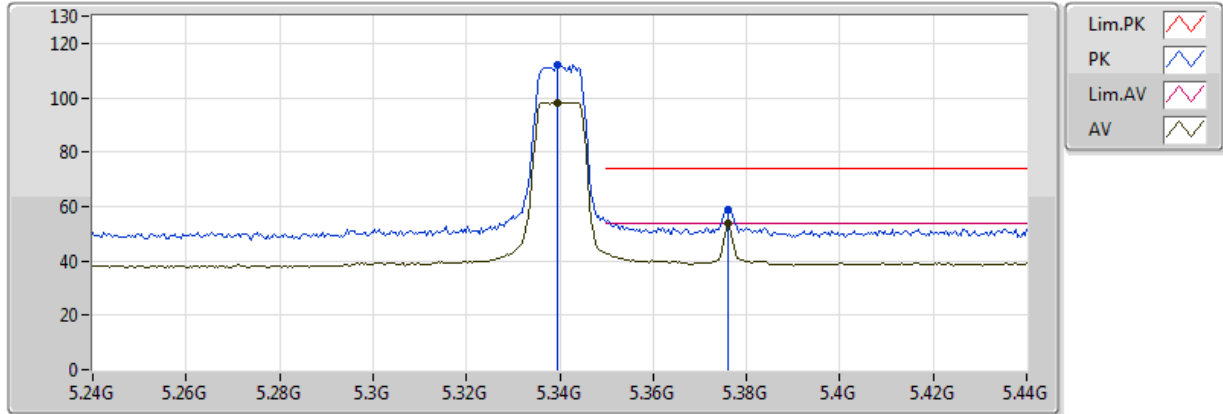


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.90003G	41.97	54.00	-12.03	16.89	3	H	273	2.15	-
PK	15.89962G	55.32	74.00	-18.68	16.90	3	H	273	2.15	-

QPSK,10M_Nss1_2TX

5340MHz_TX

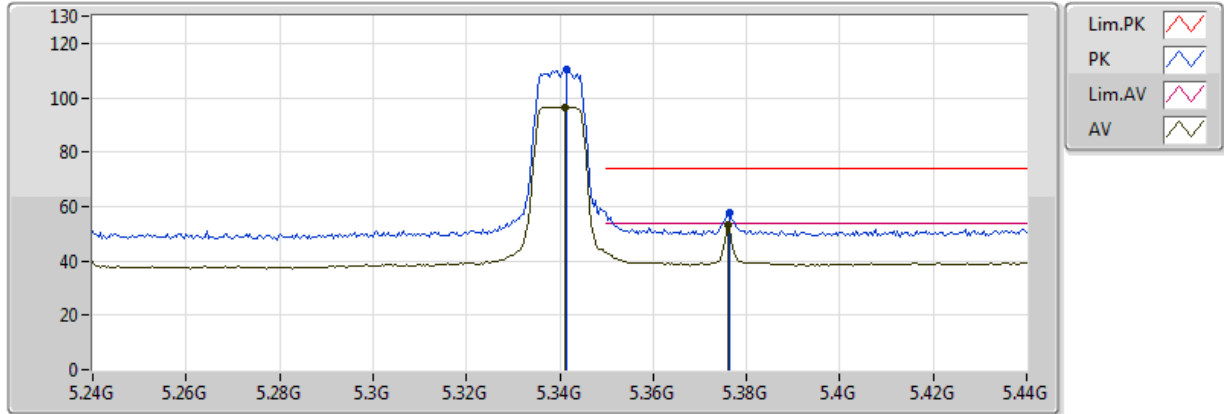


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3396G	98.30	Inf	-Inf	7.51	3	V	91	1.06	-
AV	5.376G	53.98	54.00	-0.02	7.56	3	V	91	1.06	-
PK	5.3396G	111.96	Inf	-Inf	7.51	3	V	91	1.06	-
PK	5.376G	59.06	74.00	-14.94	7.56	3	V	91	1.06	-

QPSK,10M_Nss1_2TX

5340MHz_TX

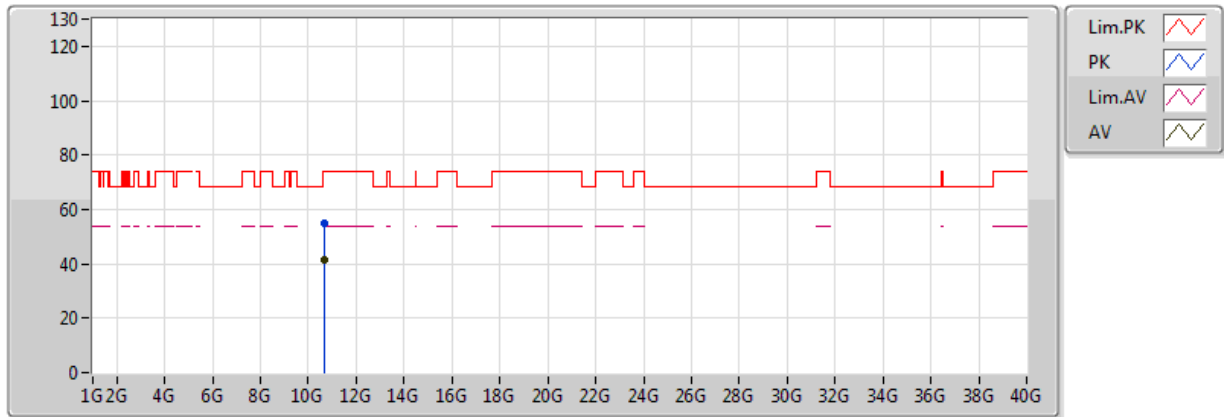


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3412G	96.31	Inf	-Inf	7.51	3	H	91	1.00	-
AV	5.376G	53.07	54.00	-0.93	7.56	3	H	91	1.00	-
PK	5.3416G	110.21	Inf	-Inf	7.51	3	H	91	1.00	-
PK	5.3764G	57.82	74.00	-16.18	7.56	3	H	91	1.00	-

QPSK,10M_Nss1_2TX

5340MHz_TX

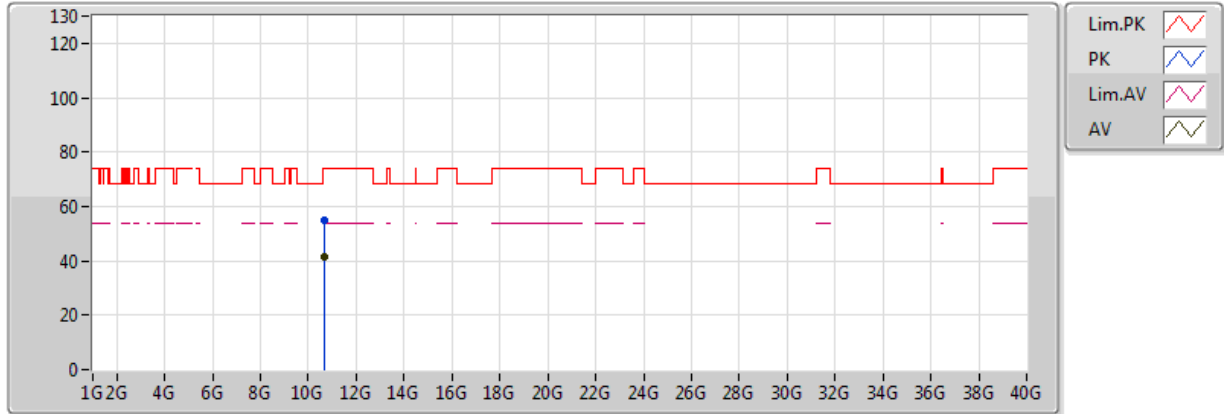


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.67953G	41.28	54.00	-12.72	16.80	3	V	204	1.81	-
PK	10.68202G	54.76	74.00	-19.24	16.80	3	V	204	1.81	-

QPSK,10M_Nss1_2TX

5340MHz_TX

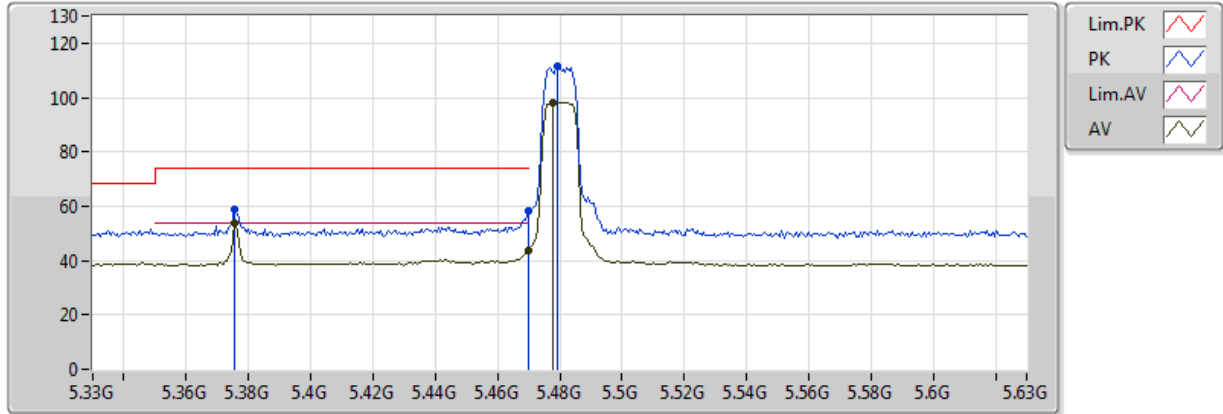


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.68136G	41.52	54.00	-12.48	16.80	3	H	78	1.18	-
PK	10.67856G	55.06	74.00	-18.94	16.80	3	H	78	1.18	-

QPSK,10M_Nss1_2TX

5480MHz_TX

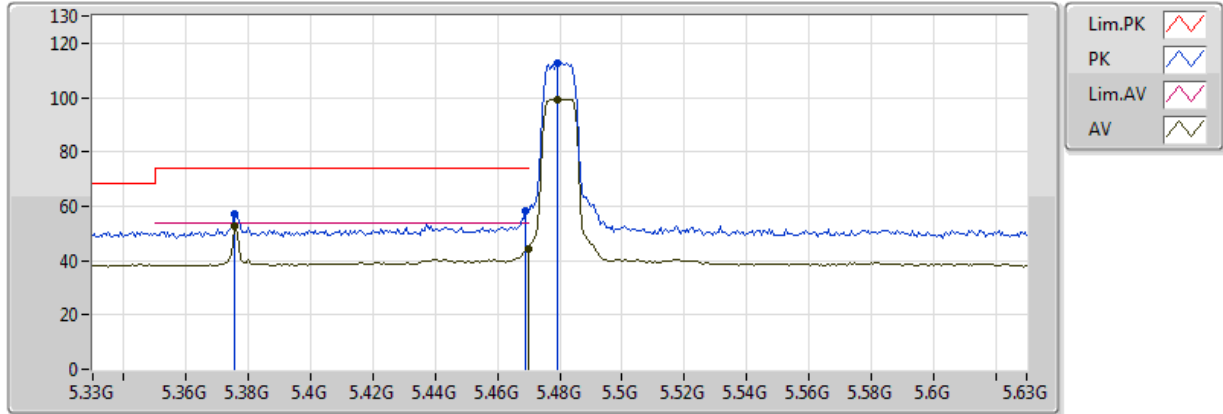


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3756G	53.96	54.00	-0.04	7.56	3	V	91	1.04	-
AV	5.4698G	43.54	54.00	-10.46	7.76	3	V	91	1.04	-
AV	5.4776G	98.04	Inf	-Inf	7.78	3	V	91	1.04	-
PK	5.3756G	58.60	74.00	-15.40	7.56	3	V	91	1.04	-
PK	5.4698G	58.21	74.00	-15.79	7.76	3	V	91	1.04	-
PK	5.4794G	111.46	Inf	-Inf	7.78	3	V	91	1.04	-

QPSK,10M_Nss1_2TX

5480MHz_TX

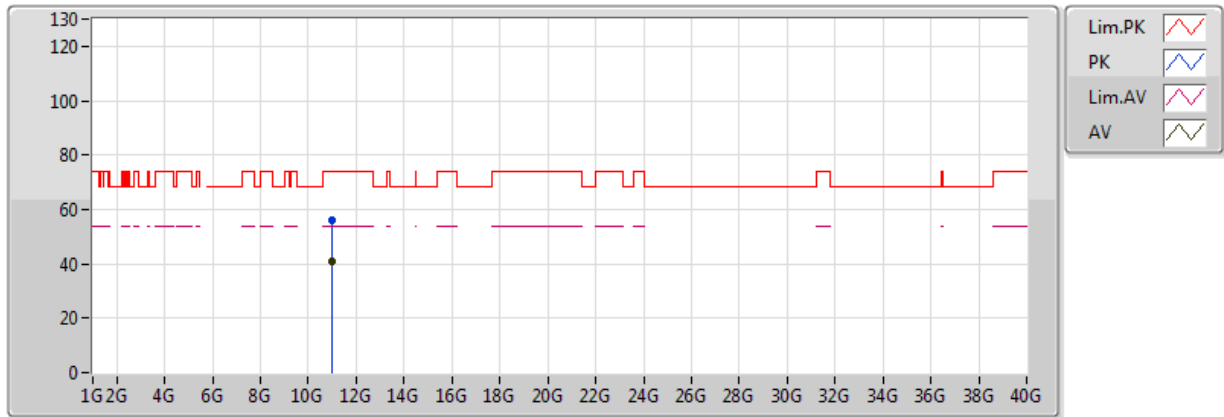


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3756G	52.91	54.00	-1.09	7.56	3	H	91	1.02	-
AV	5.4698G	44.42	54.00	-9.58	7.76	3	H	91	1.02	-
AV	5.4794G	99.42	Inf	-Inf	7.78	3	H	91	1.02	-
PK	5.3756G	57.36	74.00	-16.64	7.56	3	H	91	1.02	-
PK	5.4692G	58.15	74.00	-15.85	7.76	3	H	91	1.02	-
PK	5.4794G	112.90	Inf	-Inf	7.78	3	H	91	1.02	-

QPSK,10M_Nss1_2TX

5480MHz_TX

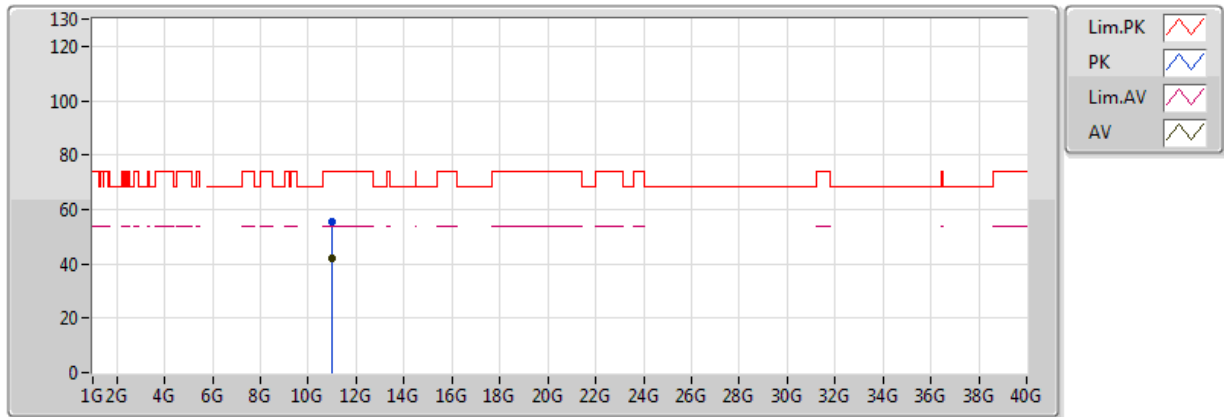


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.95878G	41.10	54.00	-12.90	17.17	3	V	88	1.85	-
PK	10.96208G	55.76	74.00	-18.24	17.17	3	V	88	1.85	-

QPSK,10M_Nss1_2TX

5480MHz_TX

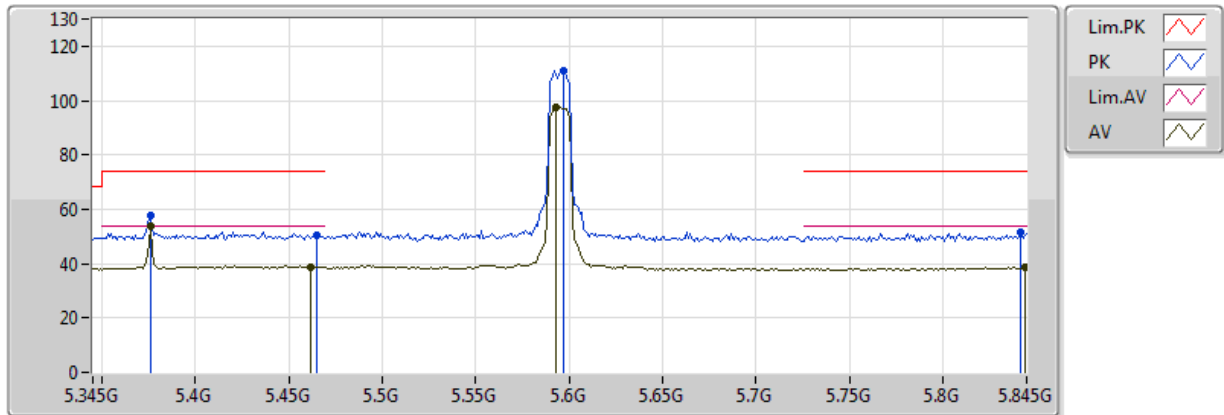


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.95928G	42.03	54.00	-11.97	17.17	3	H	131	2.42	-
PK	10.96244G	55.33	74.00	-18.67	17.17	3	H	131	2.42	-

QPSK,10M_Nss1_2TX

5595MHz_TX

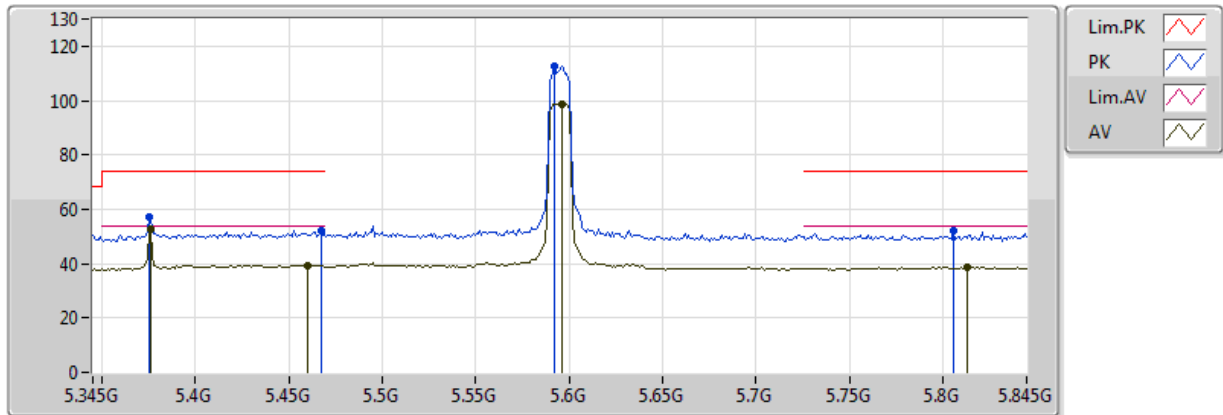


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.376G	53.82	54.00	-0.18	7.56	3	V	91	1.06	-
AV	5.462G	38.77	54.00	-15.23	7.74	3	V	91	1.06	-
AV	5.593G	97.25	Inf	-Inf	8.06	3	V	91	1.06	-
AV	5.844G	38.51	54.00	-15.49	8.37	3	V	91	1.06	-
PK	5.376G	57.91	74.00	-16.09	7.56	3	V	91	1.06	-
PK	5.465G	50.51	74.00	-23.49	7.75	3	V	91	1.06	-
PK	5.597G	110.93	Inf	-Inf	8.07	3	V	91	1.06	-
PK	5.842G	51.74	74.00	-22.26	8.36	3	V	91	1.06	-

QPSK,10M_Nss1_2TX

5595MHz_TX

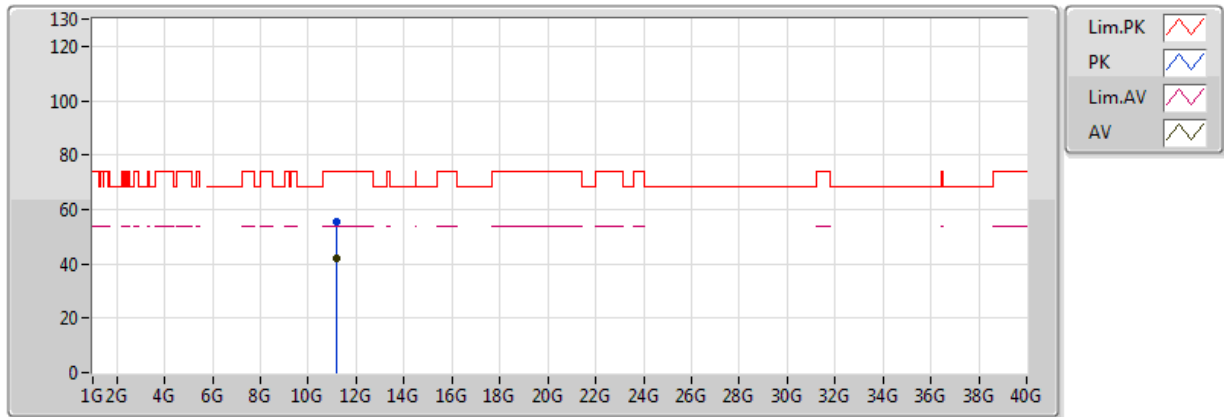


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.376G	52.93	54.00	-1.07	7.56	3	H	91	1.04	-
AV	5.46G	39.25	54.00	-14.75	7.74	3	H	91	1.04	-
AV	5.596G	98.89	Inf	-Inf	8.07	3	H	91	1.04	-
AV	5.813G	38.54	54.00	-15.46	8.30	3	H	91	1.04	-
PK	5.375G	57.23	74.00	-16.77	7.56	3	H	91	1.04	-
PK	5.467G	51.87	74.00	-22.13	7.75	3	H	91	1.04	-
PK	5.592G	112.68	Inf	-Inf	8.06	3	H	91	1.04	-
PK	5.806G	52.13	74.00	-21.87	8.28	3	H	91	1.04	-

QPSK,10M_Nss1_2TX

5595MHz_TX

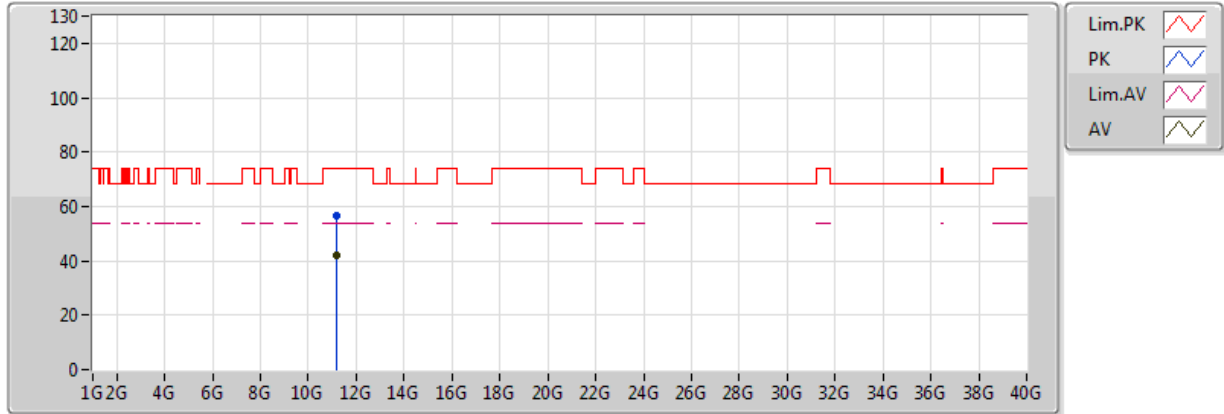


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.1877G	42.01	54.00	-11.99	17.10	3	V	25	1.78	-
PK	11.19164G	55.68	74.00	-18.32	17.09	3	V	25	1.78	-

QPSK,10M_Nss1_2TX

5595MHz_TX

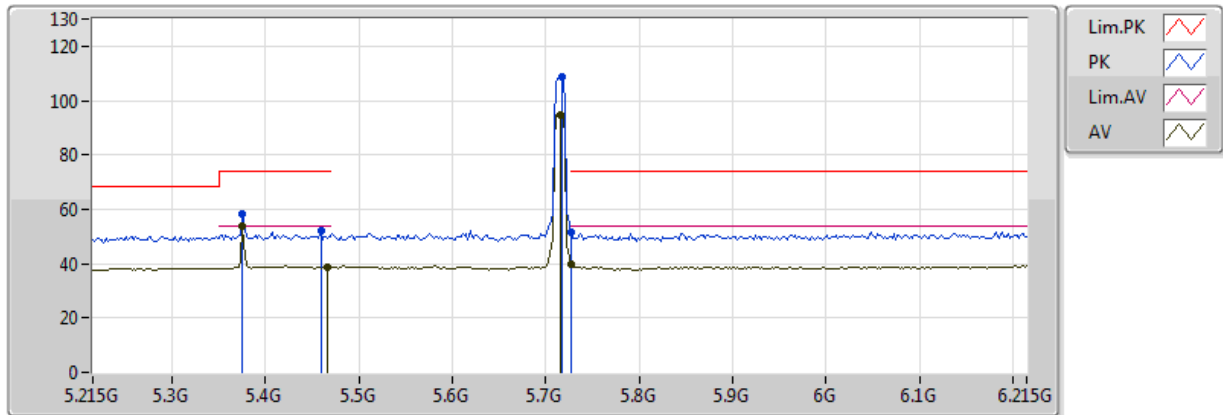


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.19036G	41.97	54.00	-12.03	17.09	3	H	44	1.23	-
PK	11.18996G	56.42	74.00	-17.58	17.09	3	H	44	1.23	-

QPSK,10M_Nss1_2TX

5715MHz_TX

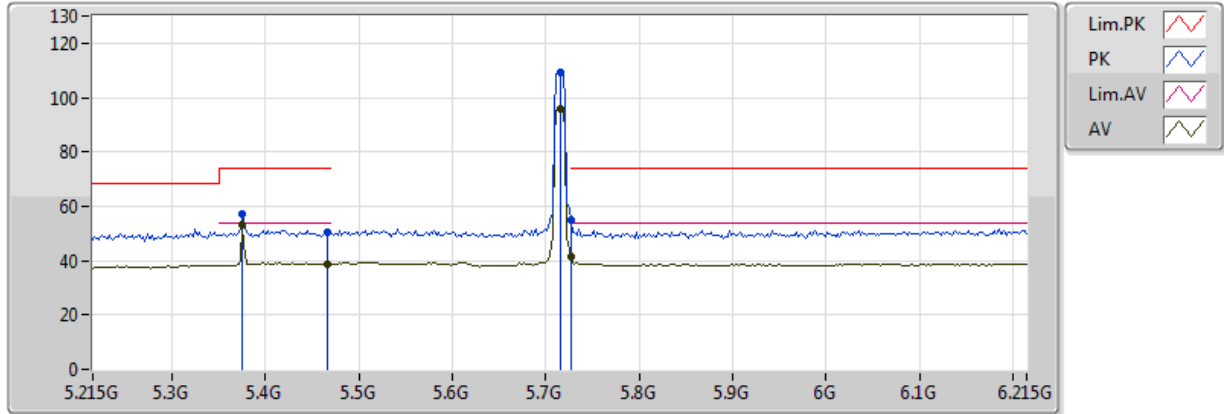


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.375G	53.91	54.00	-0.09	7.56	3	V	91	1.04	-
AV	5.467G	38.67	54.00	-15.33	7.75	3	V	91	1.04	-
AV	5.715G	94.92	Inf	-Inf	8.19	3	V	91	1.04	-
AV	5.727G	40.05	54.00	-13.95	8.20	3	V	91	1.04	-
PK	5.375G	58.21	74.00	-15.79	7.56	3	V	91	1.04	-
PK	5.460005G	51.96	74.00	-22.04	7.74	3	V	91	1.04	-
PK	5.717G	108.68	Inf	-Inf	8.20	3	V	91	1.04	-
PK	5.727G	51.38	74.00	-22.62	8.20	3	V	91	1.04	-

QPSK,10M_Nss1_2TX

5715MHz_TX

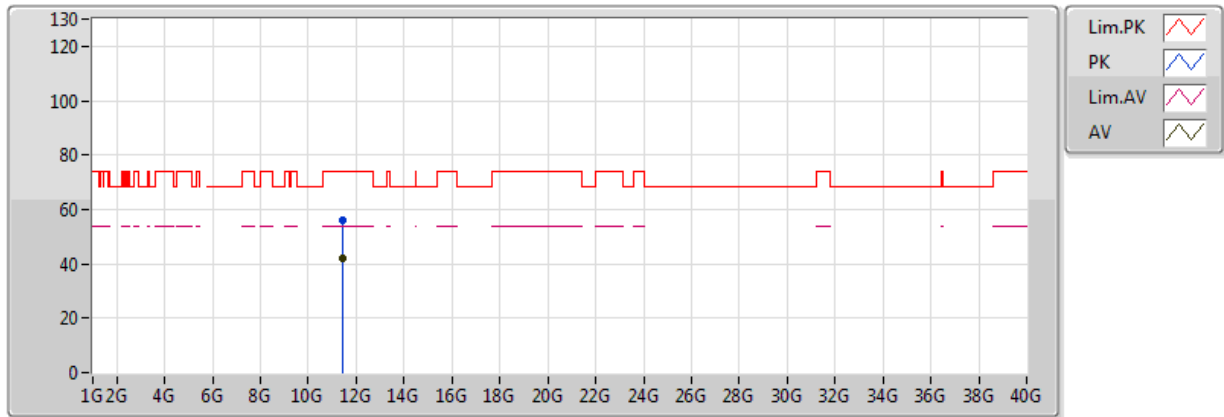


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.375G	53.27	54.00	-0.73	7.56	3	H	91	1.00	-
AV	5.467G	38.75	54.00	-15.25	7.75	3	H	91	1.00	-
AV	5.715G	95.85	Inf	-Inf	8.19	3	H	91	1.00	-
AV	5.727G	41.32	54.00	-12.68	8.20	3	H	91	1.00	-
PK	5.467G	50.37	74.00	-23.63	7.75	3	H	91	1.00	-
PK	5.715G	109.18	Inf	-Inf	8.19	3	H	91	1.00	-
PK	5.727G	54.78	74.00	-19.22	8.20	3	H	91	1.00	-
PK	5.375G	56.89	74.00	-17.11	7.56	3	H	91	1.00	-

QPSK,10M_Nss1_2TX

5715MHz_TX

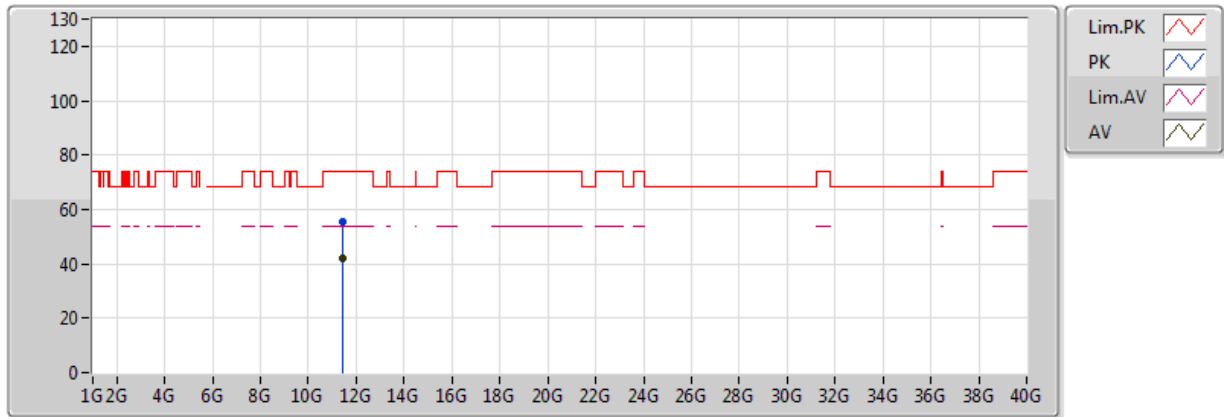


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.42765G	42.20	54.00	-11.80	16.94	3	V	109	1.81	-
PK	11.43227G	56.21	74.00	-17.79	16.93	3	V	109	1.81	-

QPSK,10M_Nss1_2TX

5715MHz_TX

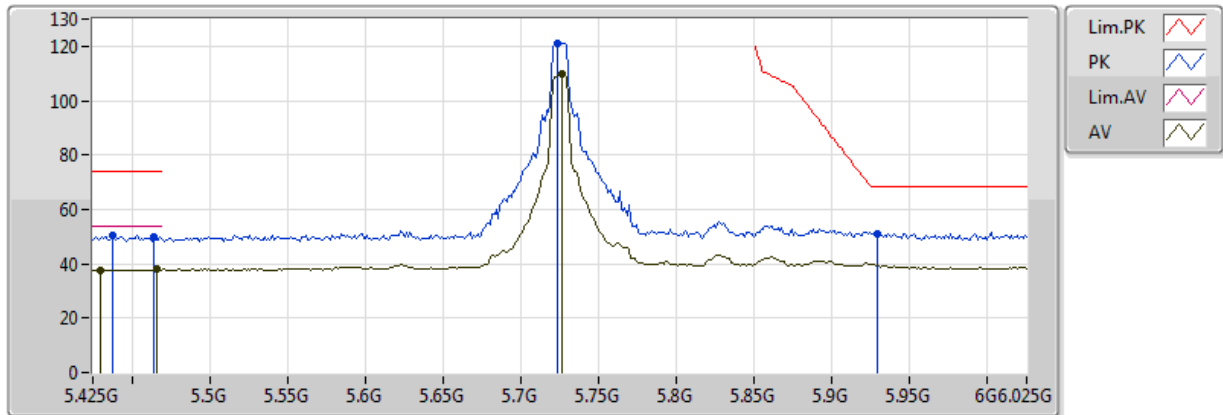


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.43022G	42.16	54.00	-11.84	16.94	3	H	128	1.41	-
PK	11.43004G	55.68	74.00	-18.32	16.94	3	H	128	1.41	-

QPSK,10M_Nss1_2TX

5725MHz Straddle 5.47-5.725GHz_TX

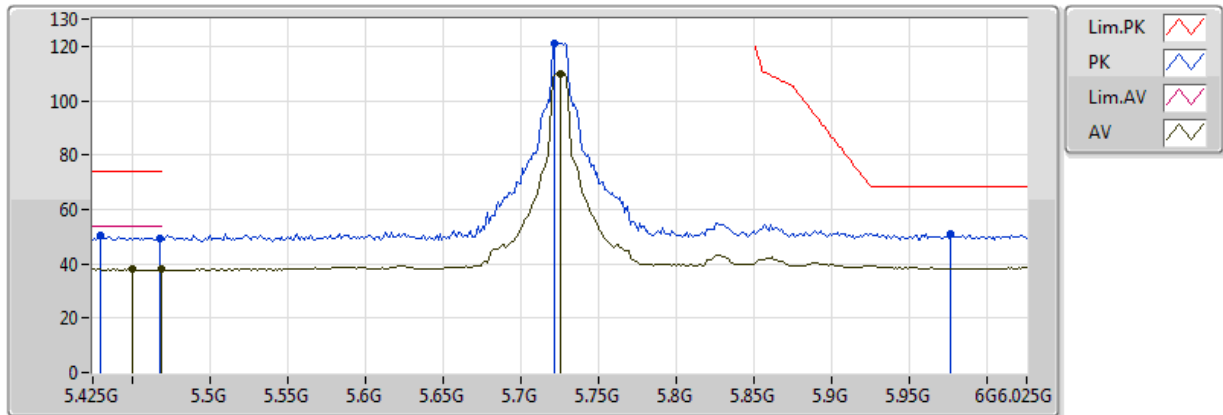


20170628
EUT Y_2TX
Setting 24
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4298G	37.73	54.00	-16.27	7.67	3	V	91	1.06	-
AV	5.4658G	37.86	54.00	-16.14	7.75	3	V	91	1.06	-
AV	5.7262G	109.62	Inf	-Inf	8.20	3	V	91	1.06	-
PK	5.4382G	50.51	74.00	-23.49	7.69	3	V	91	1.06	-
PK	5.4646G	49.96	74.00	-24.04	7.75	3	V	91	1.06	-
PK	5.7238G	121.13	Inf	-Inf	8.20	3	V	91	1.06	-
PK	5.929G	51.20	68.20	-17.00	8.55	3	V	91	1.06	-

QPSK,10M_Nss1_2TX

5725MHz Straddle 5.47-5.725GHz_TX

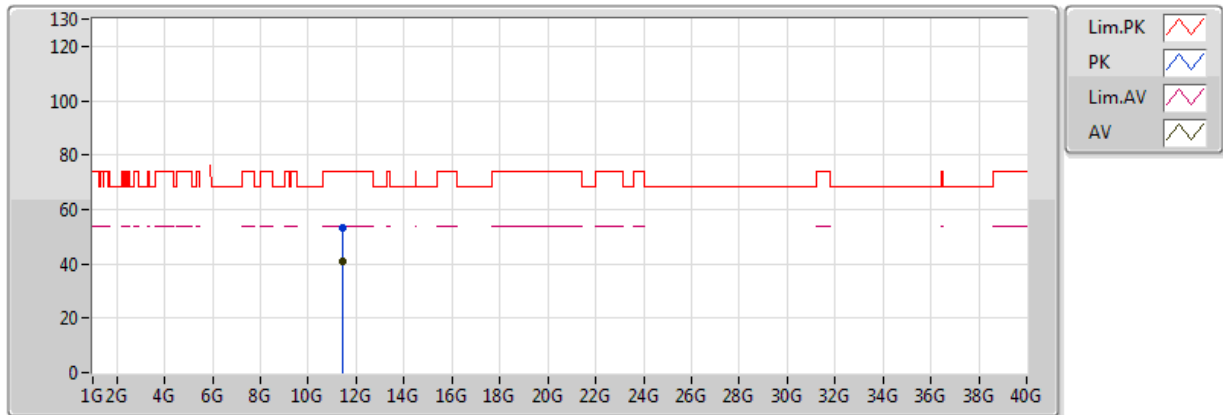


20170628
EUT Y_2TX
Setting 24
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4502G	38.01	54.00	-15.99	7.72	3	H	91	1.04	-
AV	5.4694G	37.96	54.00	-16.04	7.76	3	H	91	1.04	-
AV	5.725G	109.88	Inf	-Inf	8.20	3	H	91	1.04	-
PK	5.4298G	50.29	74.00	-23.71	7.67	3	H	91	1.04	-
PK	5.4682G	49.57	74.00	-24.43	7.76	3	H	91	1.04	-
PK	5.7214G	121.22	Inf	-Inf	8.20	3	H	91	1.04	-
PK	5.9758G	51.18	68.20	-17.02	8.66	3	H	91	1.04	-

QPSK,10M_Nss1_2TX

5725MHz Straddle 5.47-5.725GHz_TX

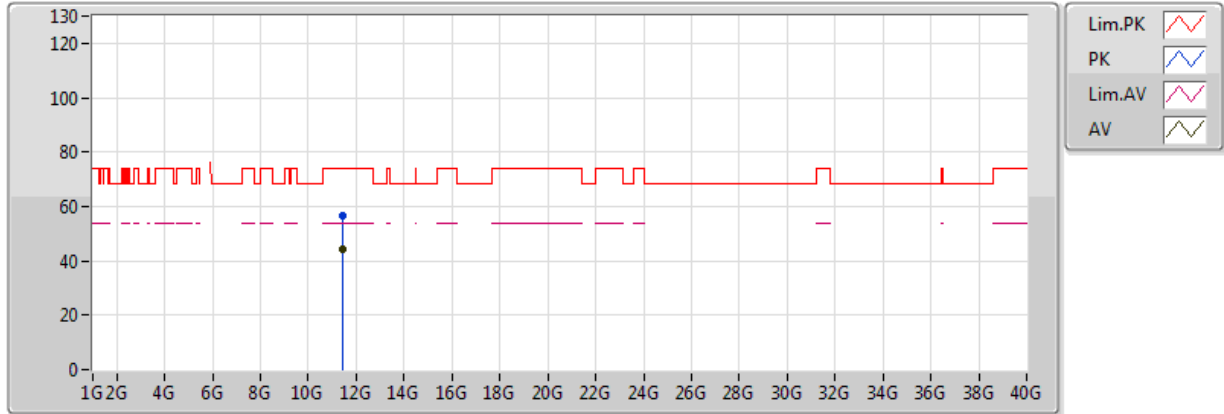


20170628
EUT Y_2TX
Setting 24
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.45034G	40.73	54.00	-13.27	12.02	3	V	61	1.01	-
PK	11.45026G	53.42	74.00	-20.58	12.02	3	V	61	1.01	-

QPSK,10M_Nss1_2TX

5725MHz Straddle 5.47-5.725GHz_TX

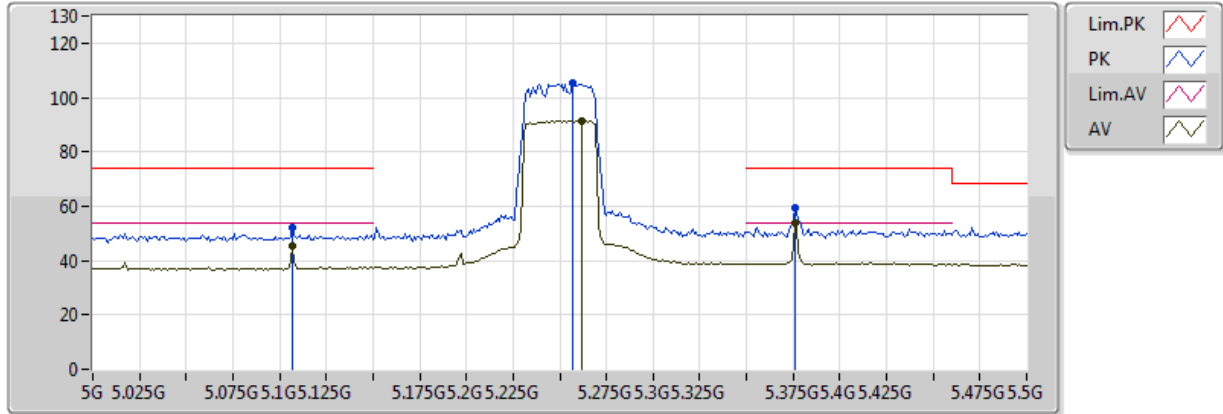


20170628
EUT Y_2TX
Setting 24
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.4501G	44.21	54.00	-9.79	12.02	3	H	59	1.89	-
PK	11.44958G	56.49	74.00	-17.51	12.02	3	H	59	1.89	-

QPSK,40M_Nss1_2TX

5250MHz_TX

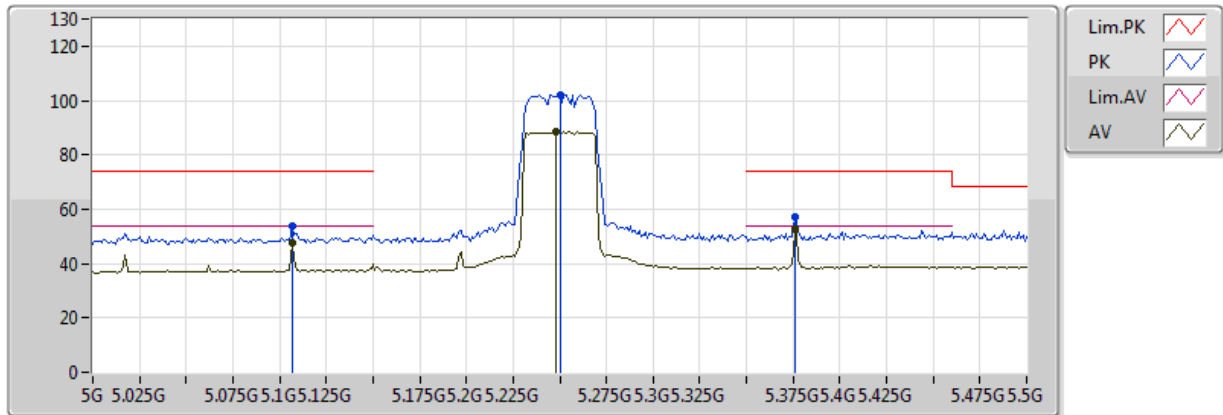


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.107G	45.15	54.00	-8.85	7.21	3	V	91	1.03	-
AV	5.262G	91.39	Inf	-Inf	7.39	3	V	91	1.03	-
AV	5.376G	53.98	54.00	-0.02	7.56	3	V	91	1.03	-
PK	5.107G	52.19	74.00	-21.81	7.21	3	V	91	1.03	-
PK	5.257G	105.16	Inf	-Inf	7.38	3	V	91	1.03	-
PK	5.376G	59.29	74.00	-14.71	7.56	3	V	91	1.03	-

QPSK,40M_Nss1_2TX

5250MHz_TX

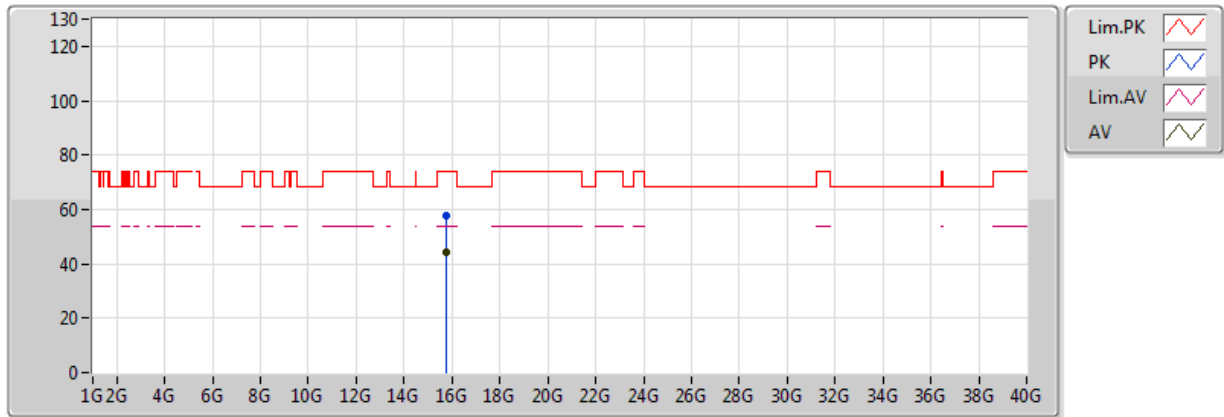


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.107G	47.59	54.00	-6.41	7.21	3	H	91	1.09	-
AV	5.248G	88.31	Inf	-Inf	7.37	3	H	91	1.09	-
AV	5.376G	52.92	54.00	-1.08	7.56	3	H	91	1.09	-
PK	5.107G	53.77	74.00	-20.23	7.21	3	H	91	1.09	-
PK	5.25G	102.11	Inf	-Inf	7.37	3	H	91	1.09	-
PK	5.376G	57.04	74.00	-16.96	7.56	3	H	91	1.09	-

QPSK,40M_Nss1_2TX

5250MHz_TX

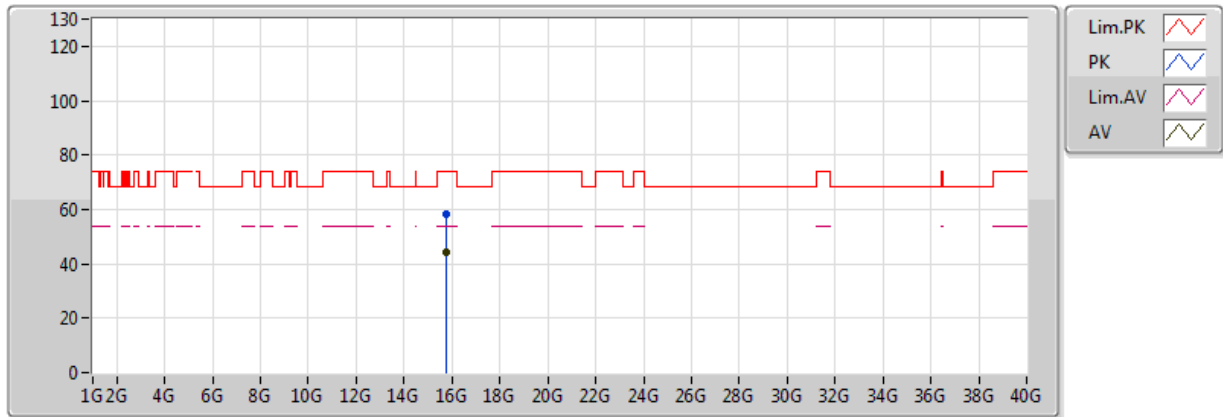


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.75023G	44.43	54.00	-9.57	17.32	3	V	334	1.63	-
PK	15.75072G	57.82	74.00	-16.18	17.32	3	V	334	1.63	-

QPSK,40M_Nss1_2TX

5250MHz_TX

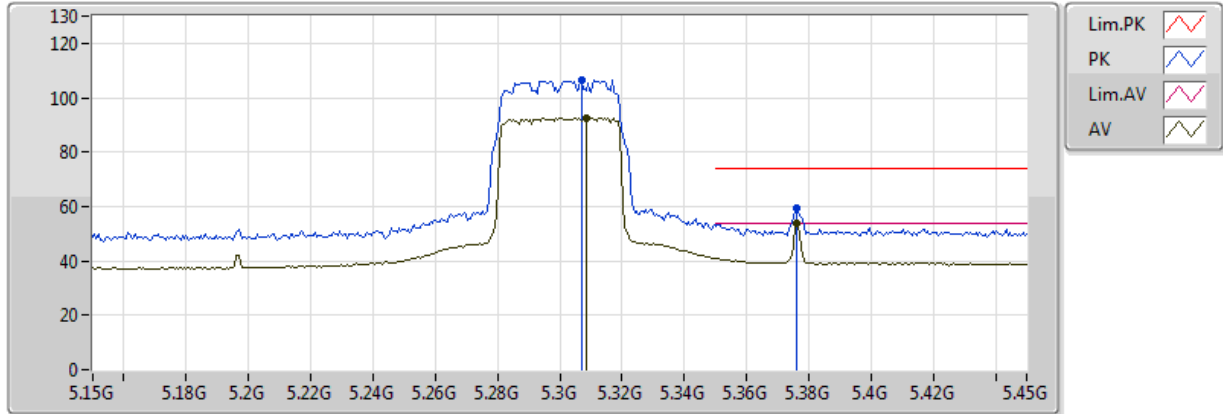


20170628
EUT_Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.7493G	44.34	54.00	-9.66	17.32	3	H	74	2.46	-
PK	15.75108G	58.28	74.00	-15.72	17.32	3	H	74	2.46	-

QPSK,40M_Nss1_2TX

5300MHz_TX

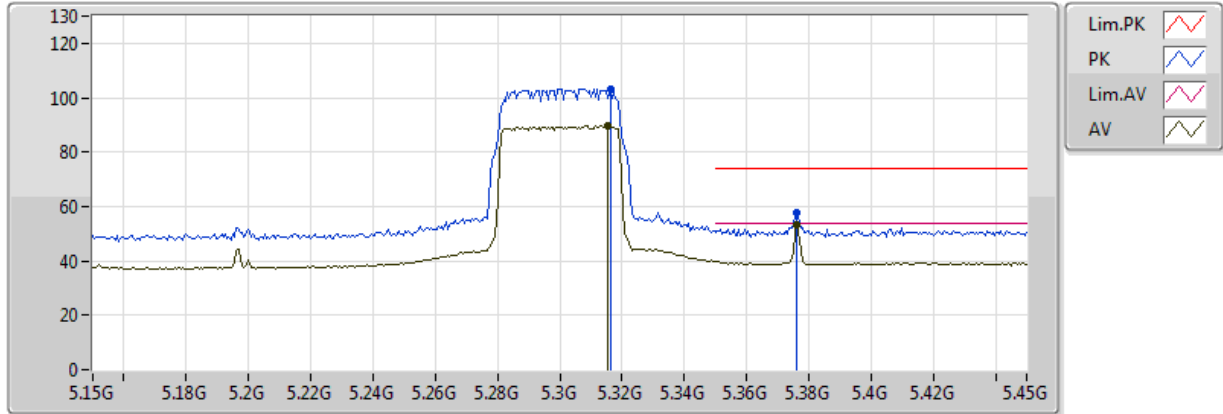


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3084G	92.73	Inf	-Inf	7.46	3	V	91	1.01	-
AV	5.3762G	53.91	54.00	-0.09	7.56	3	V	91	1.01	-
PK	5.3072G	106.38	Inf	-Inf	7.46	3	V	91	1.01	-
PK	5.3762G	59.31	74.00	-14.69	7.56	3	V	91	1.01	-

QPSK,40M_Nss1_2TX

5300MHz_TX

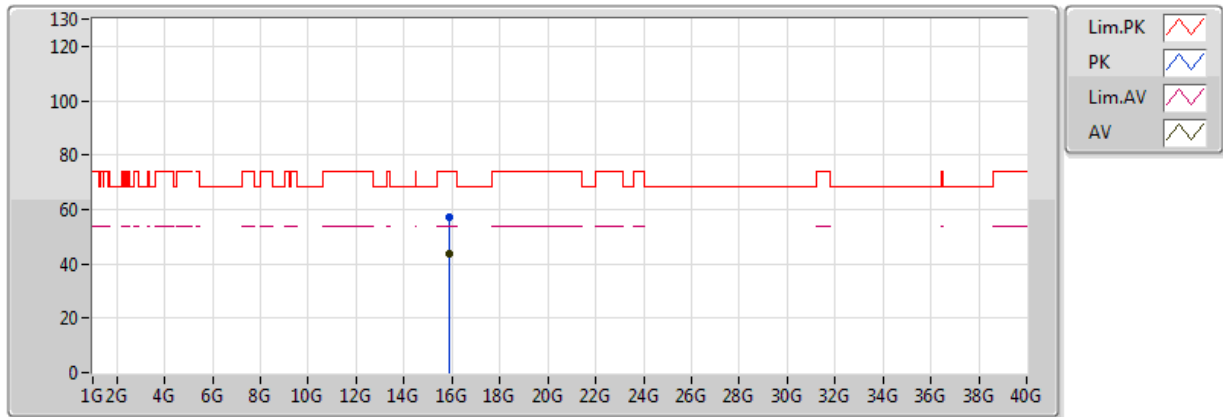


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3156G	89.51	Inf	-Inf	7.47	3	H	91	1.04	-
AV	5.3762G	53.39	54.00	-0.61	7.56	3	H	91	1.04	-
PK	5.3162G	103.26	Inf	-Inf	7.47	3	H	91	1.04	-
PK	5.3762G	57.46	74.00	-16.54	7.56	3	H	91	1.04	-

QPSK,40M_Nss1_2TX

5300MHz_TX

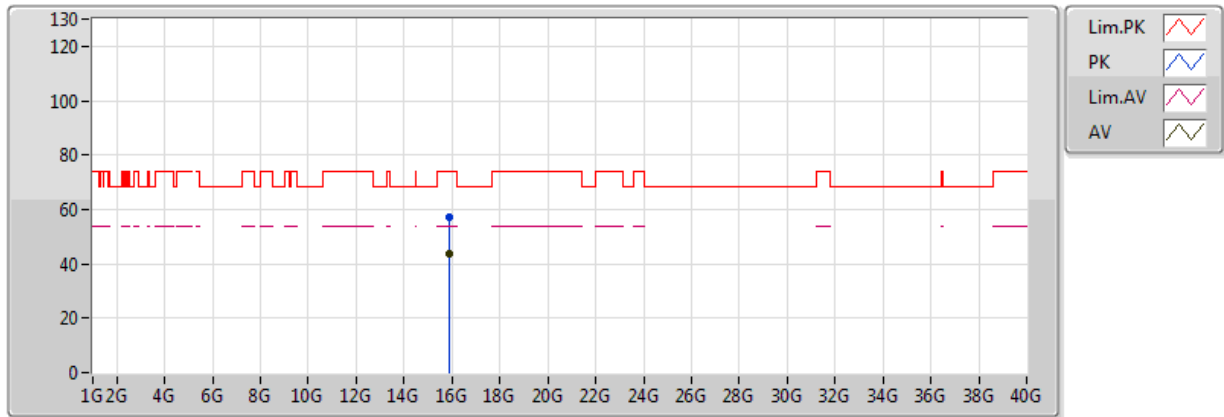


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.8998G	43.45	54.00	-10.55	16.89	3	V	295	2.06	-
PK	15.90067G	57.43	74.00	-16.57	16.89	3	V	295	2.06	-

QPSK,40M_Nss1_2TX

5300MHz_TX

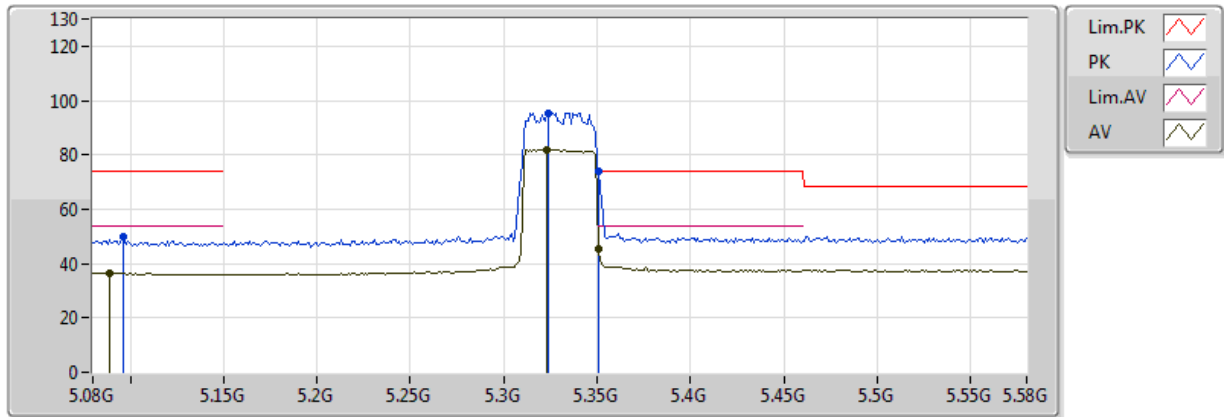


20170628
EUT Y_2TX
Setting 10
06-M-0
FSP(100019)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	15.89884G	43.45	54.00	-10.55	16.90	3	H	235	1.43	-
PK	15.90059G	57.38	74.00	-16.62	16.89	3	H	235	1.43	-

QPSK,40M_Nss1_2TX

5330MHz_TX

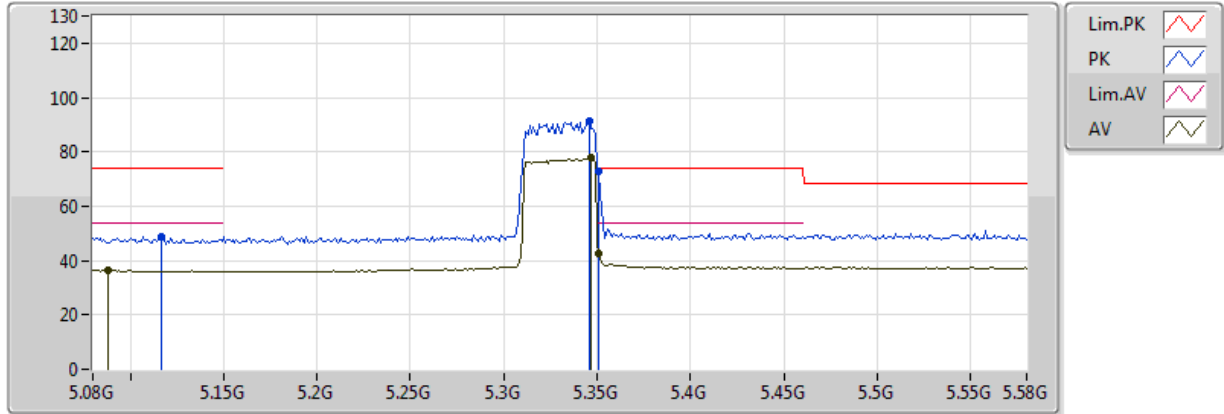


20170713
EUT Y_2TX
Setting 1
06-L-2-10
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.089G	36.49	54.00	-17.51	7.19	3	V	178	1.16	-
AV	5.323G	81.88	Inf	-Inf	7.48	3	V	178	1.16	-
AV	5.351G	45.17	54.00	-8.83	7.53	3	V	178	1.16	-
PK	5.096G	49.84	74.00	-24.16	7.20	3	V	178	1.16	-
PK	5.324G	95.46	Inf	-Inf	7.49	3	V	178	1.16	-
PK	5.351G	73.95	74.00	-0.05	7.53	3	V	178	1.16	-

QPSK,40M_Nss1_2TX

5330MHz_TX

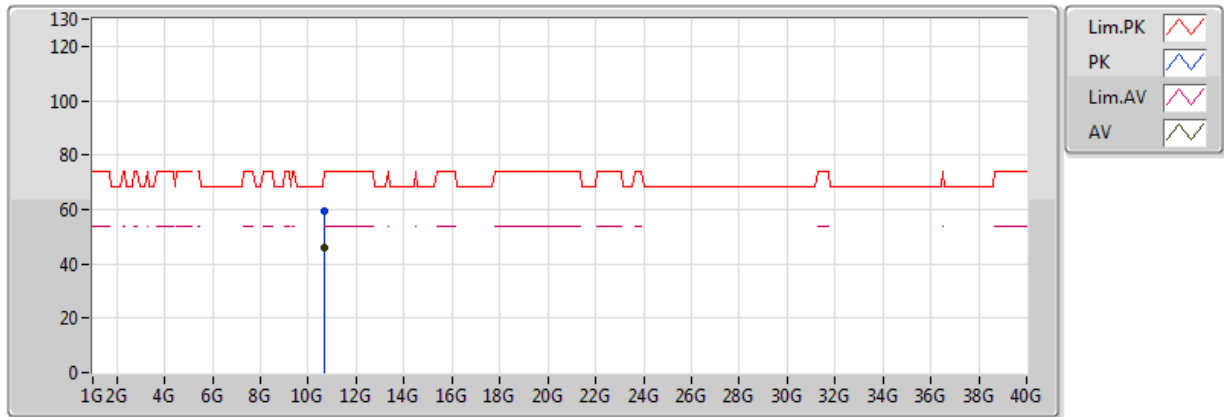


20170713
EUT Y_2TX
Setting 1
06-L-2-10
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.088G	36.53	54.00	-17.47	7.19	3	H	184	2.08	-
AV	5.347G	77.62	Inf	-Inf	7.52	3	H	184	2.08	-
AV	5.351G	42.78	54.00	-11.22	7.53	3	H	184	2.08	-
PK	5.117G	48.78	74.00	-25.22	7.22	3	H	184	2.08	-
PK	5.346G	91.51	Inf	-Inf	7.52	3	H	184	2.08	-
PK	5.351G	72.74	74.00	-1.26	7.53	3	H	184	2.08	-

QPSK,40M_Nss1_2TX

5330MHz_TX

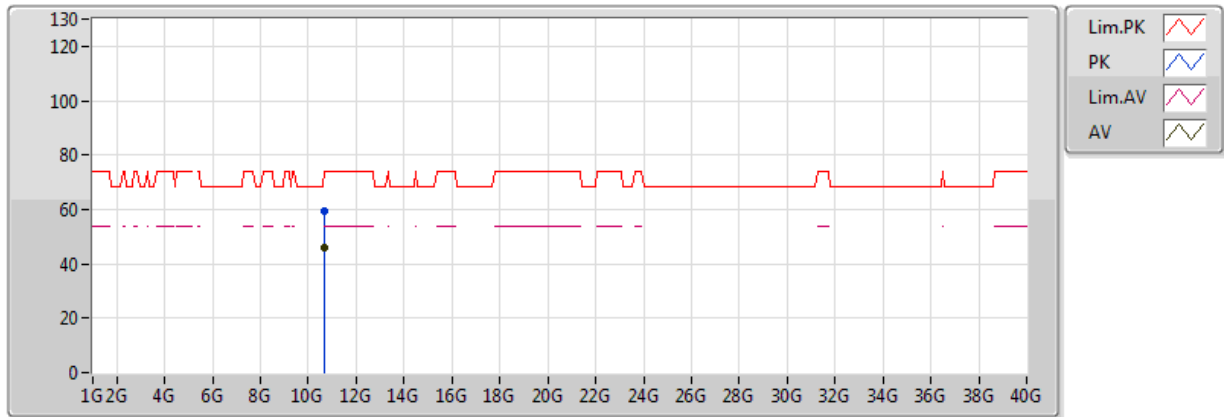


20170713
EUT Y_2TX
Setting 1
06-L-2
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.66432G	45.76	54.00	-8.24	16.78	3	V	132	1.99	-
PK	10.66446G	59.35	74.00	-14.65	16.78	3	V	132	1.99	-

QPSK,40M_Nss1_2TX

5330MHz_TX

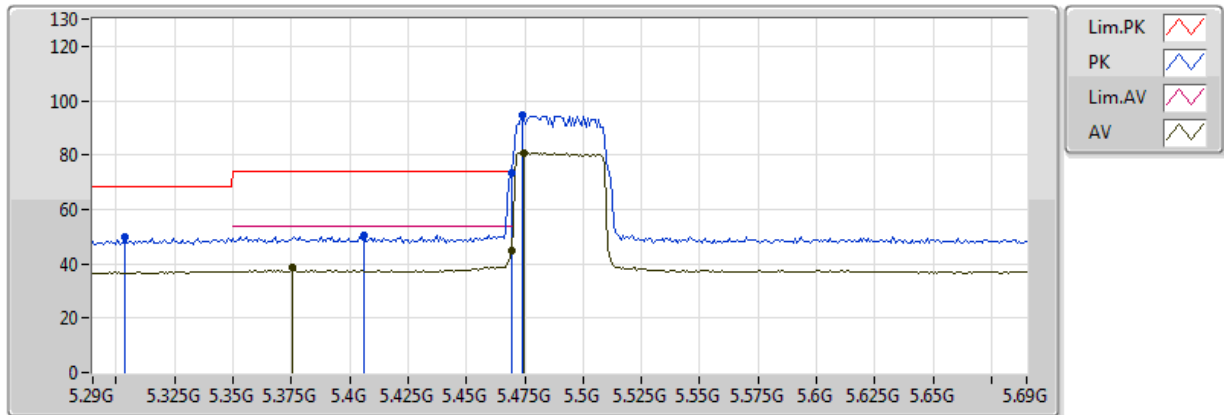


20170713
EUT Y_2TX
Setting 1
06-L-2
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.65596G	45.74	54.00	-8.26	16.77	3	H	119	2.16	-
PK	10.66412G	59.47	74.00	-14.53	16.78	3	H	119	2.16	-

QPSK,40M_Nss1_2TX

5490MHz_TX

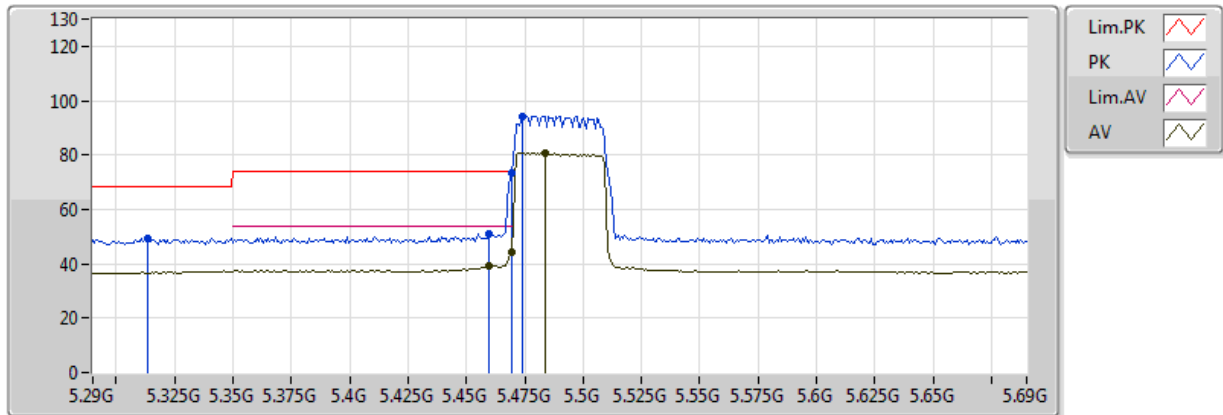


20170713
EUT Y_2TX
Setting 5
06-L-2-10
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3756G	38.75	54.00	-15.25	7.56	3	V	184	1.01	-
AV	5.4692G	44.83	54.00	-9.17	7.76	3	V	184	1.01	-
AV	5.4748G	80.93	Inf	-Inf	7.77	3	V	184	1.01	-
PK	5.3036G	49.92	68.20	-18.28	7.46	3	V	184	1.01	-
PK	5.406G	50.33	74.00	-23.67	7.61	3	V	184	1.01	-
PK	5.4692G	73.67	74.00	-0.33	7.76	3	V	184	1.01	-
PK	5.474G	94.52	Inf	-Inf	7.77	3	V	184	1.01	-

QPSK,40M_Nss1_2TX

5490MHz_TX

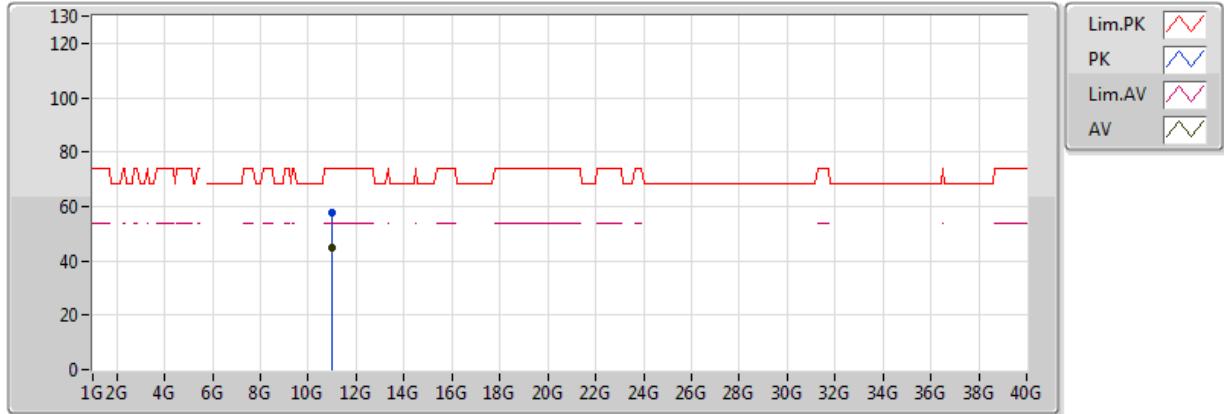


20170713
EUT Y_2TX
Setting 5
06-L-2-10
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.4596G	38.99	54.00	-15.01	7.74	3	H	185	1.86	-
AV	5.4692G	44.45	54.00	-9.55	7.76	3	H	185	1.86	-
AV	5.4836G	80.84	Inf	-Inf	7.79	3	H	185	1.86	-
PK	5.3132G	49.57	68.20	-18.63	7.47	3	H	185	1.86	-
PK	5.4596G	51.08	74.00	-22.92	7.74	3	H	185	1.86	-
PK	5.4692G	73.37	74.00	-0.63	7.76	3	H	185	1.86	-
PK	5.474G	94.39	Inf	-Inf	7.77	3	H	185	1.86	-

QPSK,40M_Nss1_2TX

5490MHz_TX

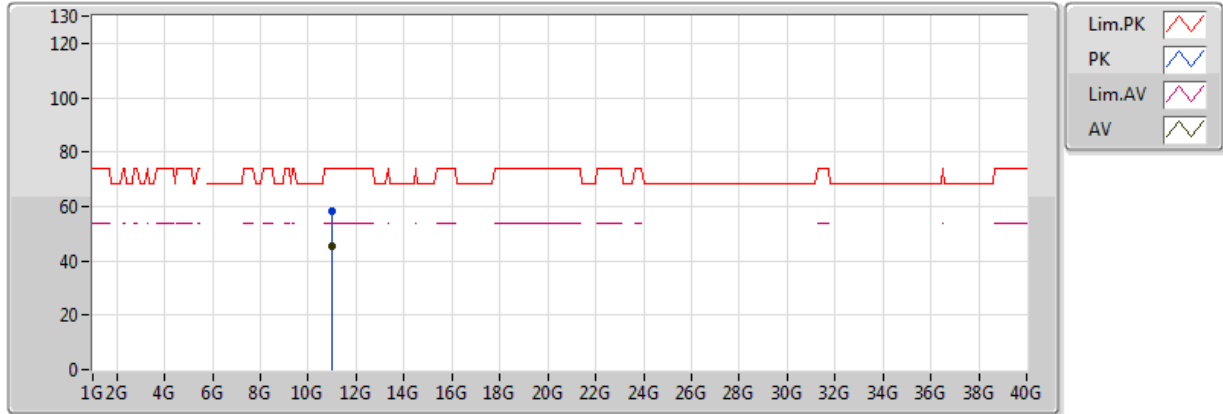


20170713
EUT Y_2TX
Setting 5
06-L-2
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.97508G	45.05	54.00	-8.95	17.19	3	V	38	1.11	-
PK	10.98082G	57.92	74.00	-16.08	17.19	3	V	38	1.11	-

QPSK,40M_Nss1_2TX

5490MHz_TX

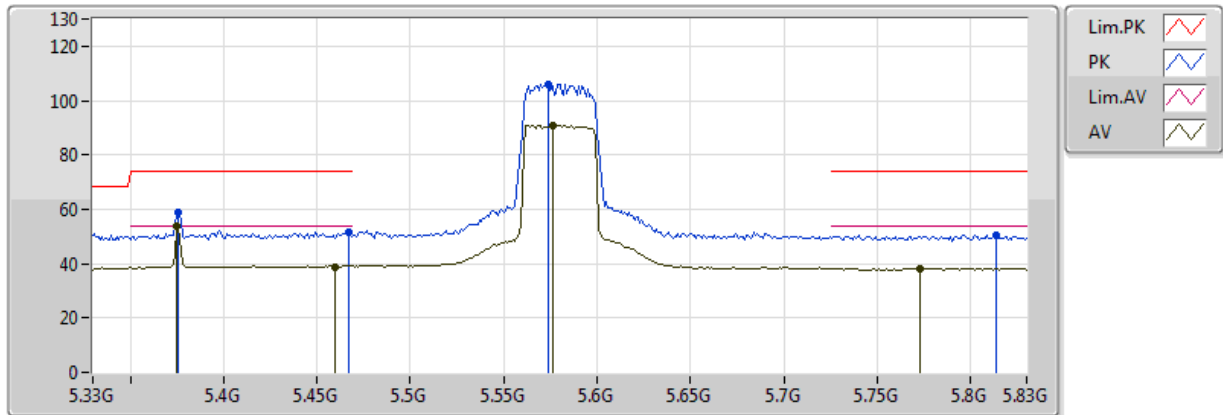


20170713
EUT Y_2TX
Setting 5
06-L-2
FSP(100080)

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	10.97802G	45.25	54.00	-8.75	17.19	3	H	112	1.67	-
PK	10.97568G	58.03	74.00	-15.97	17.19	3	H	112	1.67	-

QPSK,40M_Nss1_2TX

5580MHz_TX

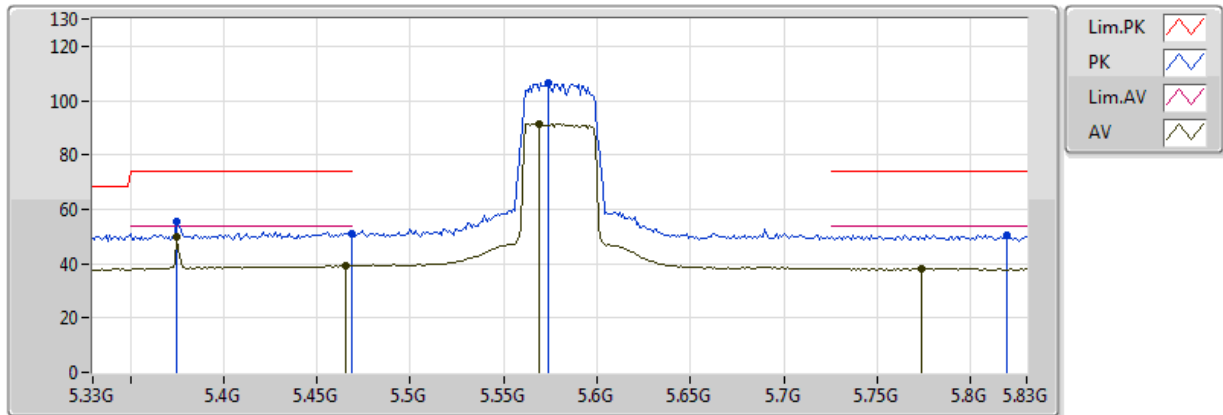


20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.375G	53.75	54.00	-0.25	7.56	3	V	3	1.06	-
AV	5.46G	38.94	54.00	-15.06	7.74	3	V	3	1.06	-
AV	5.576G	90.88	Inf	-Inf	8.02	3	V	3	1.06	-
AV	5.773G	38.14	Inf	-Inf	8.25	3	V	3	1.06	-
PK	5.376G	58.84	74.00	-15.16	7.56	3	V	3	1.06	-
PK	5.467G	51.50	68.20	-16.70	7.75	3	V	3	1.06	-
PK	5.574G	105.93	Inf	-Inf	8.02	3	V	3	1.06	-
PK	5.814G	50.70	68.20	-17.50	8.30	3	V	3	1.06	-

QPSK,40M_Nss1_2TX

5580MHz_TX

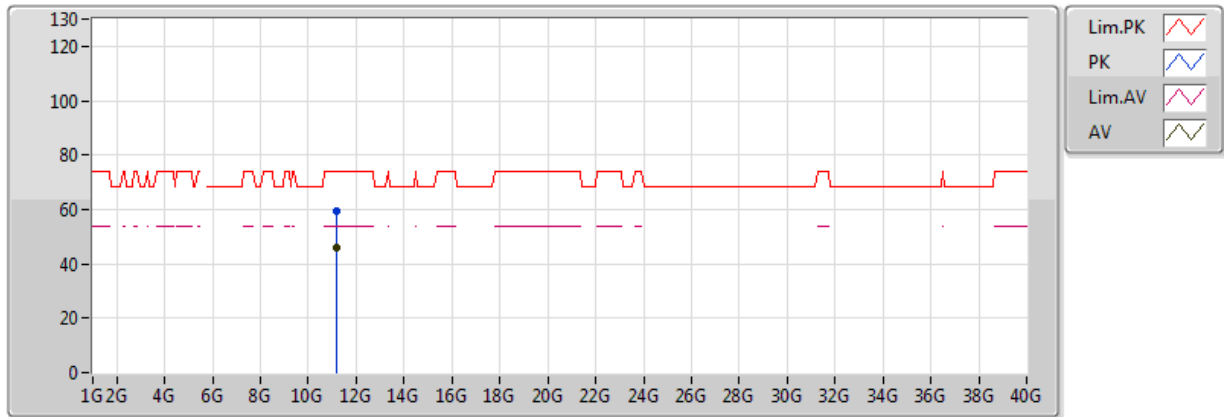


20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.375G	50.04	54.00	-3.96	7.56	3	H	1	1.03	-
AV	5.465G	39.16	54.00	-14.84	7.75	3	H	1	1.03	-
AV	5.569G	91.50	Inf	-Inf	8.00	3	H	1	1.03	-
AV	5.774G	38.12	54.00	-15.88	8.25	3	H	1	1.03	-
PK	5.469G	51.24	74.00	-22.76	7.76	3	H	1	1.03	-
PK	5.574G	106.45	Inf	-Inf	8.02	3	H	1	1.03	-
PK	5.819G	50.62	74.00	-23.38	8.31	3	H	1	1.03	-
PK	5.375G	55.27	74.00	-18.73	7.56	3	H	1	1.03	-

QPSK,40M_Nss1_2TX

5580MHz_TX

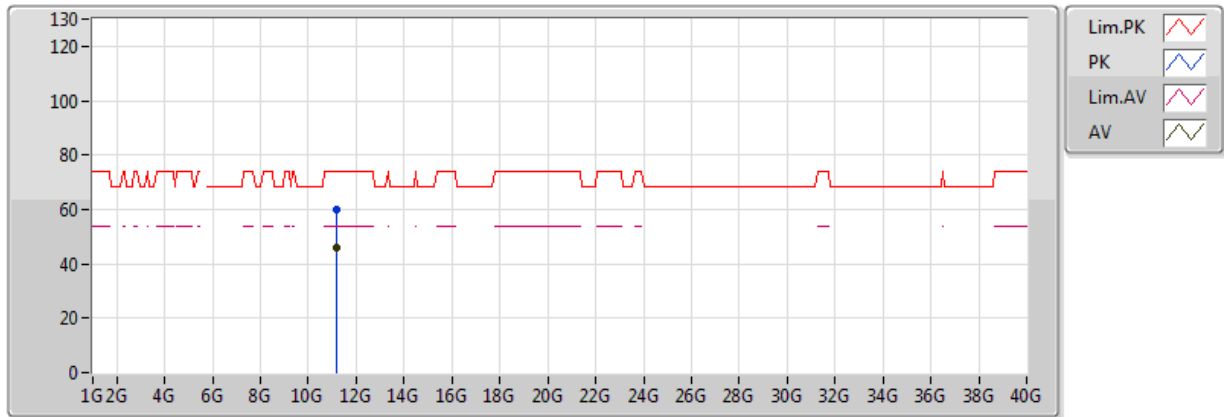


20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.17488G	46.11	54.00	-7.89	17.10	3	V	62	1.50	-
PK	11.15488G	59.60	74.00	-14.40	17.12	3	V	62	1.50	-

QPSK,40M_Nss1_2TX

5580MHz_TX

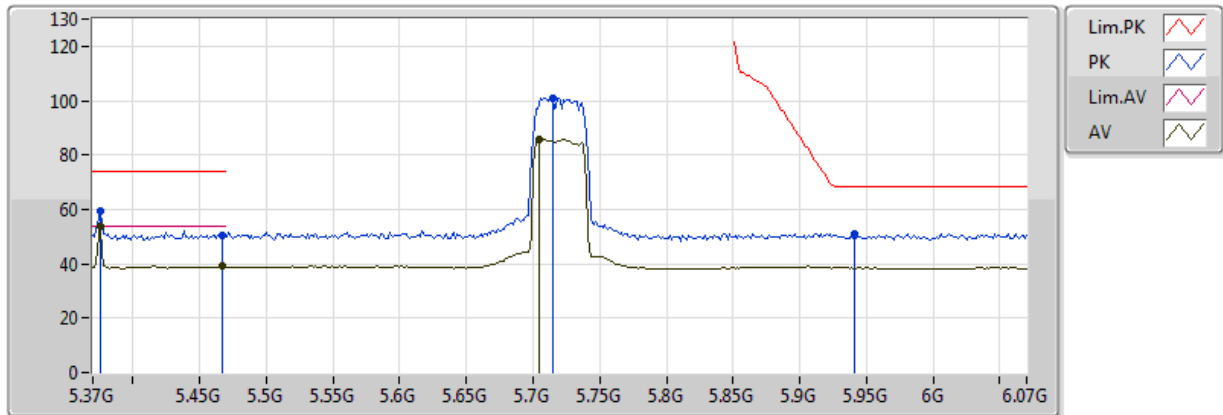


20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.17192G	46.17	54.00	-7.83	17.11	3	H	89	1.50	-
PK	11.16792G	59.69	74.00	-14.31	17.11	3	H	89	1.50	-

QPSK,40M_Nss1_2TX

5720MHz Straddle 5.47-5.725GHz_TX

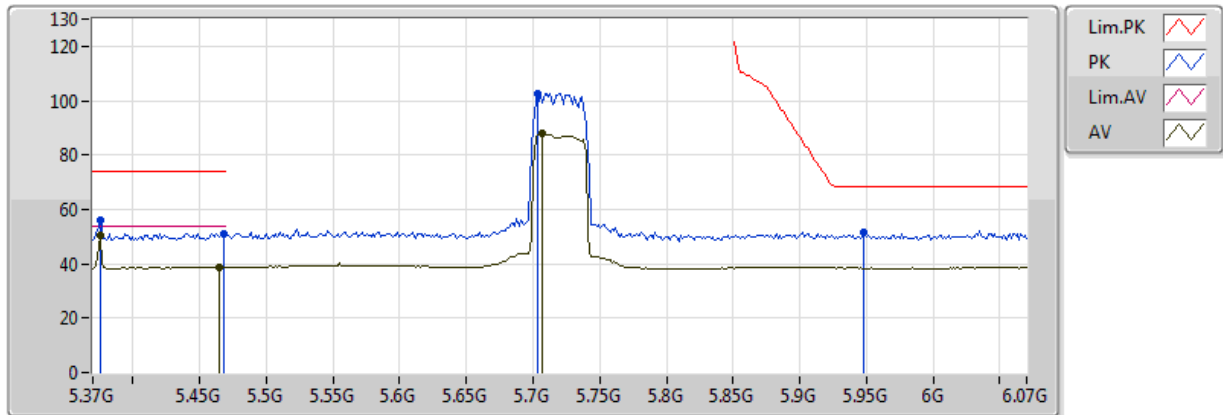


20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3756G	53.98	54.00	-0.02	7.56	3	V	3	1.06	-
AV	5.4666G	38.95	54.00	-15.05	7.75	3	V	3	1.06	-
AV	5.7046G	85.95	Inf	-Inf	8.18	3	V	3	1.06	-
PK	5.3756G	59.21	74.00	-14.79	7.56	3	V	3	1.06	-
PK	5.4666G	50.56	74.00	-23.44	7.75	3	V	3	1.06	-
PK	5.7144G	100.88	Inf	-Inf	8.19	3	V	3	1.06	-
PK	5.9412G	50.85	68.20	-17.35	8.58	3	V	3	1.06	-

QPSK,40M_Nss1_2TX

5720MHz Straddle 5.47-5.725GHz_TX

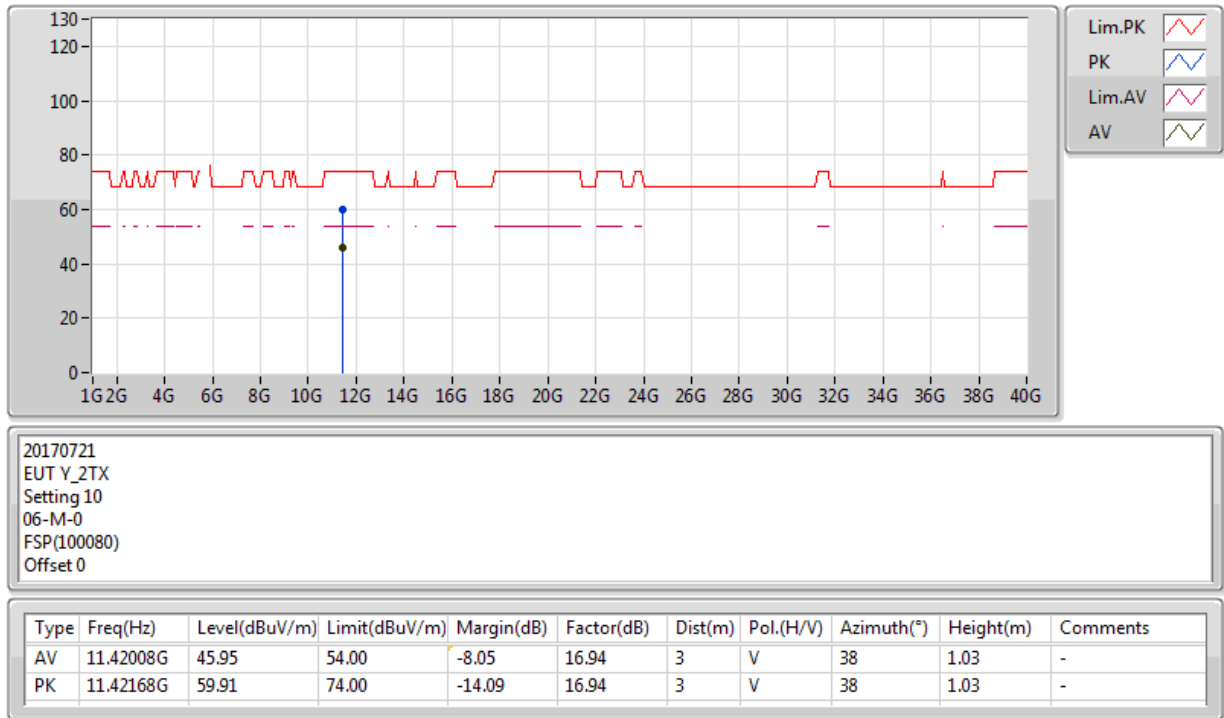


20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	5.3756G	50.17	54.00	-3.83	7.56	3	H	3	1.03	-
AV	5.4652G	38.82	54.00	-15.18	7.75	3	H	3	1.03	-
AV	5.7074G	87.77	Inf	-Inf	8.19	3	H	3	1.03	-
PK	5.3756G	55.95	74.00	-18.05	7.56	3	H	3	1.03	-
PK	5.468G	51.01	74.00	-22.99	7.76	3	H	3	1.03	-
PK	5.7032G	102.72	Inf	-Inf	8.18	3	H	3	1.03	-
PK	5.9482G	51.83	68.20	-16.37	8.60	3	H	3	1.03	-

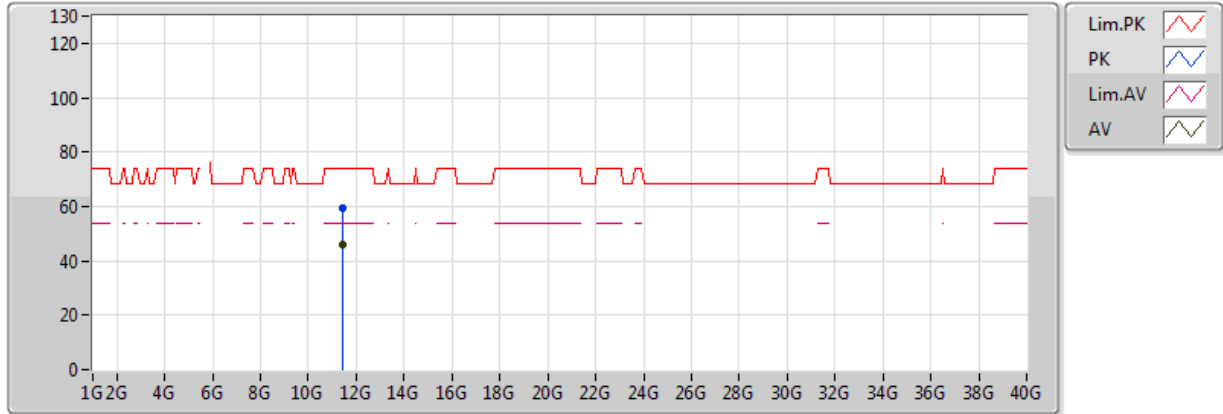
QPSK,40M_Nss1_2TX

5720MHz Straddle 5.47-5.725GHz_TX



QPSK,40M_Nss1_2TX

5720MHz Straddle 5.47-5.725GHz_TX



20170721
EUT Y_2TX
Setting 10
06-M-0
FSP(100080)
Offset 0

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	11.42G	45.97	54.00	-8.03	16.94	3	H	36	1.50	-
PK	11.42136G	59.59	74.00	-14.41	16.94	3	H	36	1.50	-

Mode: 10, 40 M / Port 1
Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5299.9892	5299.9891	5299.9886	5299.9881
110.00	5299.9889	5299.9883	5299.9874	5299.9873
93.50	5299.9888	5299.9887	5299.9877	5299.9869
Max. Deviation (MHz)	0.0112	0.0117	0.0126	0.0131
Max. Deviation (ppm)	2.11	2.21	2.38	2.47
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5300 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5299.9988	5299.9979	5299.9975	5299.9965
-30	5299.9846	5299.9844	5299.9840	5299.9834
-20	5299.9866	5299.9864	5299.9856	5299.9848
-10	5299.9871	5299.9862	5299.9857	5299.9854
0	5299.9878	5299.9870	5299.9865	5299.9861
10	5299.9884	5299.9883	5299.9878	5299.9877
20	5299.9889	5299.9886	5299.9877	5299.9872
30	5299.9899	5299.9895	5299.9893	5299.9884
40	5299.9916	5299.9907	5299.9900	5299.9899
50	5299.9934	5299.9932	5299.9930	5299.9925
60	5299.9922	5299.9915	5299.9914	5299.9905
70	5299.9929	5299.9926	5299.9918	5299.9910
Max. Deviation (MHz)	0.0154	0.0156	0.0160	0.0166
Max. Deviation (ppm)	2.91	2.94	3.02	3.13
Result	Pass			

Voltage vs. Frequency Stability

Voltage	Measurement Frequency (MHz)			
(V)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5579.9940	5579.9934	5579.9930	5579.9922
110.00	5579.9934	5579.9927	5579.9925	5579.9923
93.50	5579.9929	5579.9919	5579.9909	5579.9902
Max. Deviation (MHz)	0.0071	0.0081	0.0091	0.0098
Max. Deviation (ppm)	1.27	1.45	1.63	1.76
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5580 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5580.0017	5580.0011	5580.0005	5579.9997
-30	5580.0014	5580.0006	5580.0004	5580.0001
-20	5580.0001	5579.9997	5579.9995	5579.9990
-10	5579.9981	5579.9975	5579.9973	5579.9967
0	5579.9966	5579.9958	5579.9953	5579.9952
10	5579.9950	5579.9948	5579.9938	5579.9931
20	5579.9934	5579.9930	5579.9921	5579.9914
30	5579.9891	5579.9888	5579.9886	5579.9885
40	5579.9873	5579.9863	5579.9861	5579.9859
50	5579.9872	5579.9863	5579.9854	5579.9853
60	5579.9890	5579.9882	5579.9877	5579.9874
70	5579.9871	5579.9866	5579.9856	5579.9854
Max. Deviation (MHz)	0.0129	0.0137	0.0144	0.0146
Max. Deviation (ppm)	2.31	2.46	2.58	2.62
Result	Pass			

Mode: 10 M / Port 1

Voltage vs. Frequency Stability

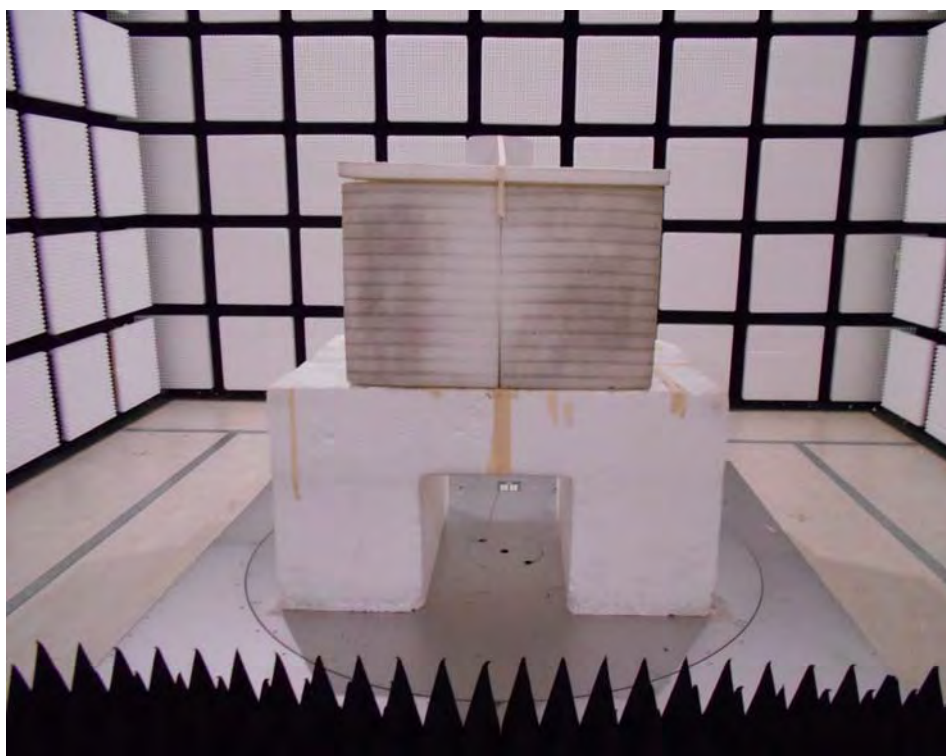
Voltage	Measurement Frequency (MHz)			
(V)	5595 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
126.50	5594.9961	5594.9954	5594.9946	5594.9945
110.00	5594.9955	5594.9954	5594.9944	5594.9937
93.50	5594.9945	5594.9938	5594.9934	5594.9929
Max. Deviation (MHz)	0.0055	0.0062	0.0066	0.0071
Max. Deviation (ppm)	0.98	1.11	1.18	1.27
Result	Pass			

Temperature vs. Frequency Stability

Temperature	Measurement Frequency (MHz)			
(°C)	5595 MHz			
	0 Minute	2 Minute	5 Minute	10 Minute
-40	5594.9926	5594.9923	5594.9919	5594.9916
-30	5594.9936	5594.9932	5594.9922	5594.9913
-20	5594.9939	5594.9932	5594.9931	5594.9930
-10	5594.9943	5594.9940	5594.9937	5594.9930
0	5594.9946	5594.9941	5594.9935	5594.9933
10	5594.9955	5594.9947	5594.9938	5594.9929
20	5594.9967	5594.9959	5594.9955	5594.9949
30	5594.9977	5594.9969	5594.9966	5594.9958
40	5594.9989	5594.9988	5594.9981	5594.9972
50	5594.9996	5594.9989	5594.9987	5594.9979
60	5594.9994	5594.9989	5594.9982	5594.9975
70	5594.9876	5594.9866	5594.9856	5594.9851
Max. Deviation (MHz)	0.0124	0.0134	0.0144	0.0149
Max. Deviation (ppm)	2.22	2.39	2.57	2.66
Result	Pass			

1. Photographs of Radiated Emissions Test Configuration

FRONT VIEW



REAR VIEW

