

FCC Test Report

Equipment : SUB-GHz RF Module
Brand Name : ANStek
Model No. : ODE3528
FCC ID : 2ANZTODE3528
Standard : 47 CFR FCC Part 15.247
Operating Band : 902 MHz – 928MHz
Applicant : Answer Technology Co.,Ltd.
21F.,No.75,Sec.1, Xintai 5th Rd.,Xizhi Dist.221,New
Taipei City,Taiwan(R.O.C.)
Manufacturer : DIAMOND DIGITAL
6F., No.168, Liancheng Rd., Zhonghe Dist., New Taipei
City 235, Taiwan (R.O.C.)

The product sample received on Oct. 19, 2017 and completely tested on Oct. 31, 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.


Phoenix Chen / Assistant Manager
SPORTON INTERNATIONAL INC.

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PHOTOGRAPHS OF EUT V01		

Summary of Test Result

Conformance Test Specifications				
Report Clause	Ref. Std. Clause	Description	Limit	Result
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied
3.2	15.247(a)	20dB Bandwidth	15.247(a)	Complied
3.2	15.247(a)	Carrier Frequency Separation	15.247(a)	Complied
3.3	15.247(b)	Maximum Conducted Output Power	15.247(b)	Complied
3.4	15.247(a)	Number of Hopping Frequencies and Hopping Bandedge	15.247(a)	Complied
3.5	15.247(a)	Time of Occupancy (Dwell Time)	15.247(a)	Complied
3.6	15.247(d)	Emissions in Non-restricted Frequency Bands	15.247(d)	Complied
3.7	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied



SPORTON INTERNATIONAL INC.
TEL : 886-3-3273456
FAX : 886-3-3270973
FCC ID: 2ANZTODE3528

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	Modulation	Ch. Frequency (MHz)	Channel Number
902-928MHz	FHSS	905-925	26

Band	Mode	BWch (MHz)	Nant
902-928MHz	SRD	0.8	1TX1RX

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	1	Unictron	AA701	on board chip antenna	Murata	-2.9

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Host system
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
SRD	0.012	19.208	5.906m	300

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
- ♦ Public Notice DA 00-705
- ♦ ANSI C63.10-2013

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Andy	22.5°C / 65%	26/Oct/2017
Radiated	03CH03-HY	Terry	22.8°C / 53%	30/Oct/2017
AC Conduction	CO04-HY	Lynus	22.8°C / 53%	31/Oct/2017

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	25°C
-	Vnom	3.3V

2.2 Test Channel Mode




Test Software	Dos
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Mode	Power Setting
SRD_Nss1_1TX	-
905MHz	63(0x307=0x3f)
914.6MHz	63(0x307=0x3f)
925MHz	63(0x307=0x3f)

2.3 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	USB Mode

The Worst Case Mode for Following Conformance Tests	
Tests Item	20dB Bandwidth Carrier Frequency Separation Maximum Conducted Output Power Number of Hopping Frequencies Hopping Bandedge Time of Occupancy (Dwell Time) Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Frequency Bands		
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	USB Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

2.4 Support Equipment

Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5530	DoC
2	Adapter for Notebook	DELL	LA65NS2-01	DoC
3	Test fixture	-	-	-

Note.Support equipment No.3 was provided by customer.

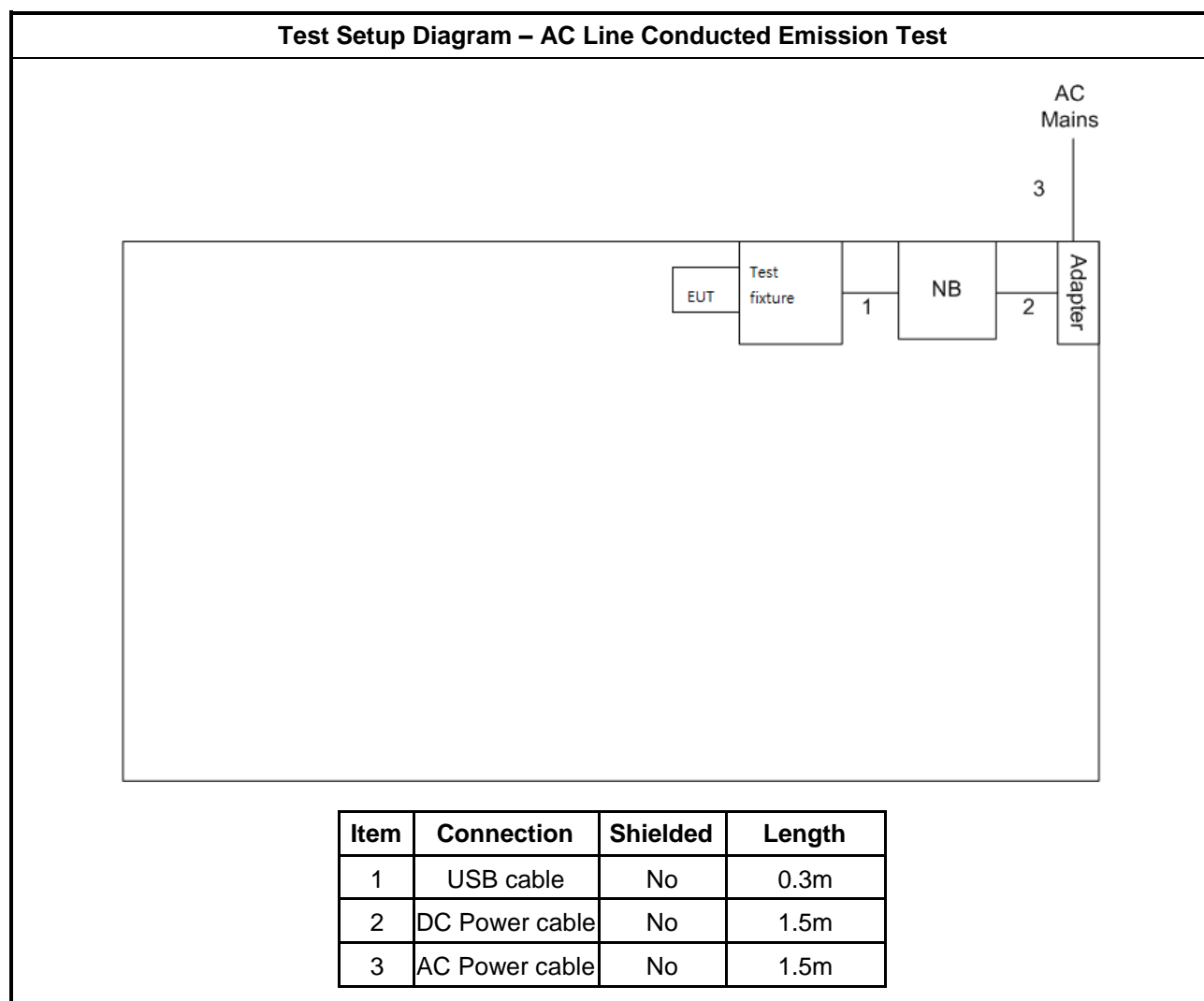
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5530	DoC
2	Adapter for Notebook	DELL	LA65NS2-01	DoC
3	Test fixture	-	-	-

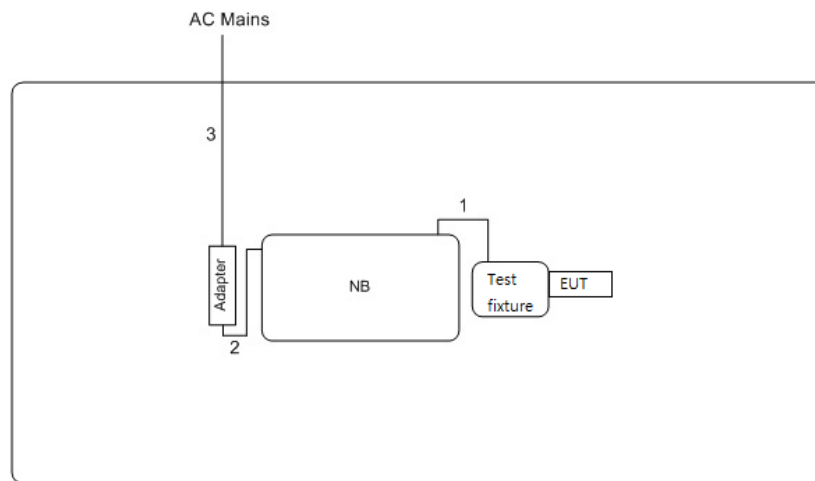
Note.Support equipment No.3 was provided by customer.

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	Test fixture	-	-	-

Note.Support equipment No.3 was provided by customer.

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length
1	USB cable	No	0.3m
2	DC Power cable	No	1.5m
3	AC 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.

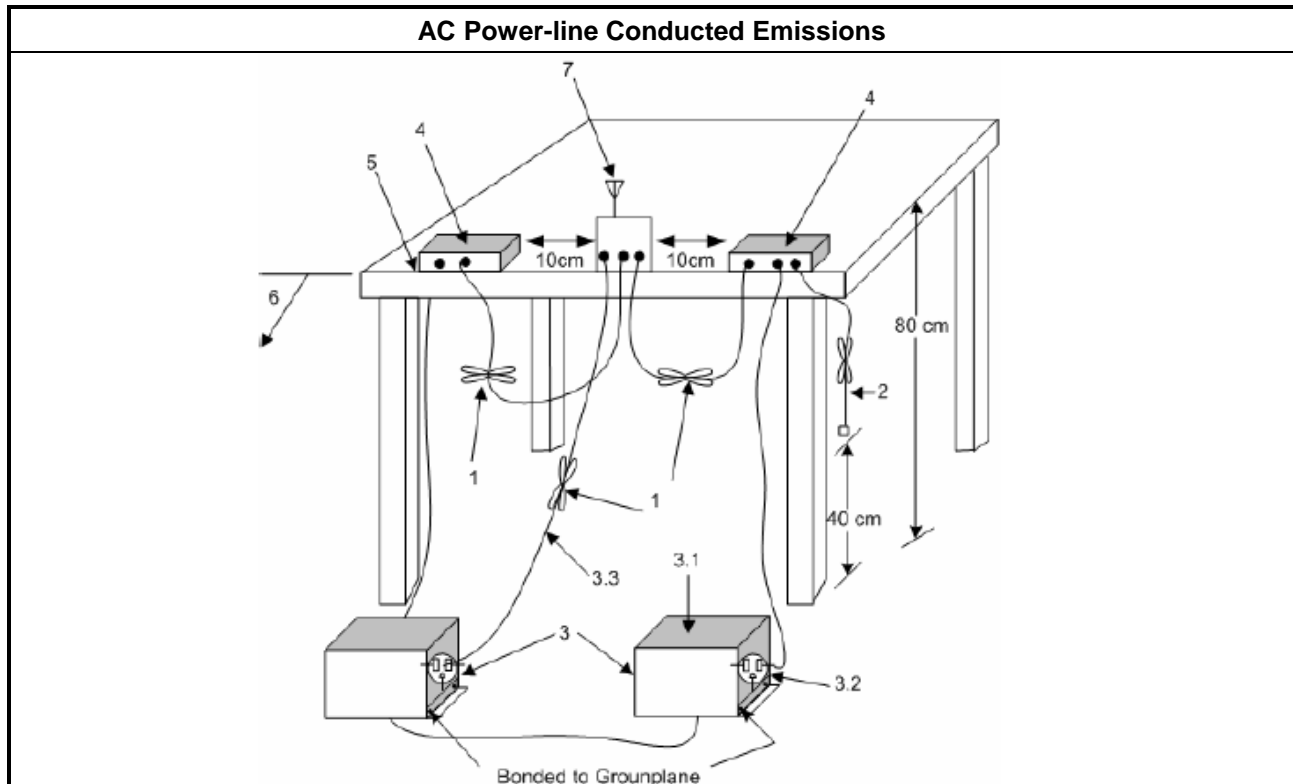
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 6.2 foray 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 20dB Bandwidth and Carrier Frequency Separation

3.2.1 20dB Bandwidth and Carrier Frequency Separation Limit

20dB Bandwidth and Carrier Frequency Separation Limit for Frequency Hopping Systems	
▪ 902-928 MHz Band:	
	▪ $N \geq 50$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth \leq 250 kHz.
	▪ $50 > N \geq 25$ and $ChS \geq \text{MAX}$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

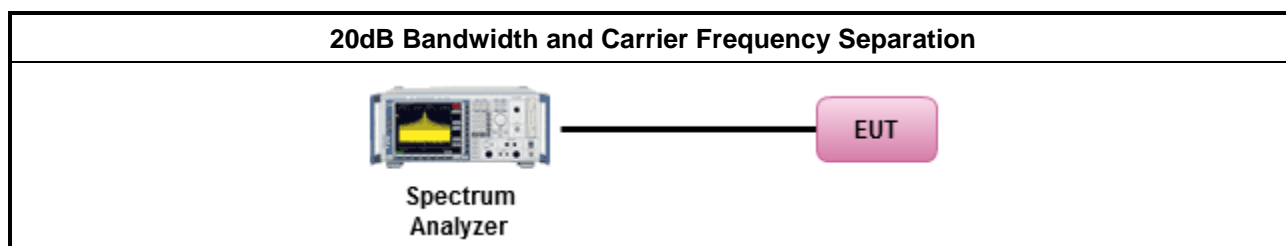
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
▪ Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.
▪ Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.

3.2.4 Test Setup



3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B.1

3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B.2

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
<ul style="list-style-type: none"> 902-928 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 50$; Power 30dBm; EIRP 36dBm
	<ul style="list-style-type: none"> $50 > N \geq 25$; Power 24dBm; EIRP 30dBm
N: Number of Hopping Frequencies	

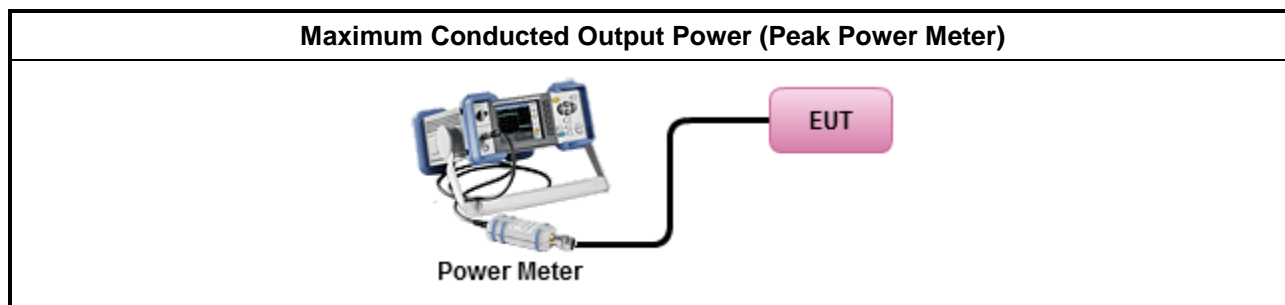
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Number of Hopping Frequencies and Hopping Bandedge

3.4.1 Number of Hopping Frequencies Limit

Number of Hopping Frequencies Limit	
<ul style="list-style-type: none"> 902-928 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 50$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth \leq 250 kHz.
	<ul style="list-style-type: none"> $50 > N \geq 25$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz); 20 dB bandwidth $>$ 250 kHz.
N: Number of Hopping Frequencies; ChS : Hopping Channel Separation	

3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

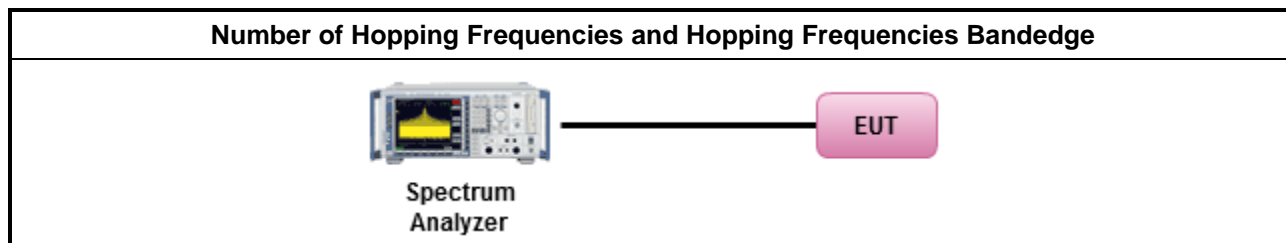
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.6 for hopping frequencies Bandedge measurement.

3.4.5 Test Setup



3.4.6 Test Result of Number of Hopping Frequencies

Refer as Appendix D

3.4.7 Test Result of Number of Hopping Frequencies Bandedge

Refer as Appendix D

3.5 Time of Occupancy (Dwell Time)

3.5.1 Time of Occupancy (Dwell Time) Limit

Time of Occupancy (Dwell Time) Limit for Frequency Hopping Systems	
<ul style="list-style-type: none"> 902-928 MHz Band: 	
	<ul style="list-style-type: none"> $N \geq 50$; 0.4s in 20s period
	<ul style="list-style-type: none"> $50 > N \geq 25$; 0.4s in 10s period
N: Number of Hopping Frequencies	

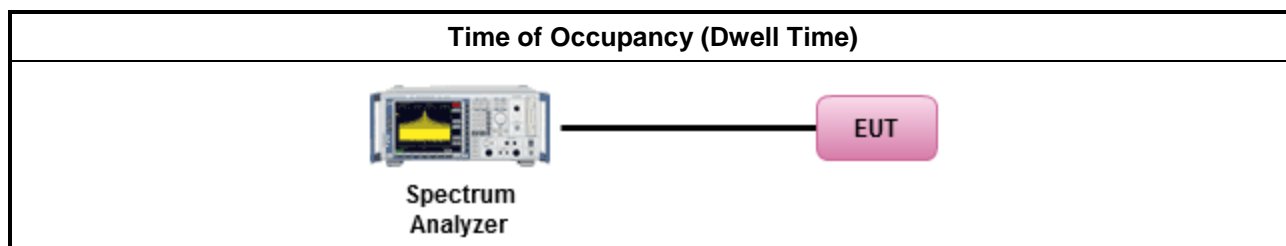
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement. 	
<ul style="list-style-type: none"> Bluetooth ACL packets can be 1, 3, or 5 time slots. Following as dwell time. Operate DH5 at maximum dwell time and maximum duty cycle. 	
	<ul style="list-style-type: none"> The DH5 packet can cover up to 5 time slots. Operate DH5 at maximum dwell time and maximum duty cycle. A maximum length packet has duration of 5 time slots. The hopping rate is 1600 hops/second so the maximum dwell time is $5/1600$ seconds, or 3.125ms. DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel.

3.5.4 Test Setup



3.5.5 Test Result of Time of Occupancy (Dwell Time)

Refer as Appendix E

3.6 Emissions in Non-restricted Frequency Bands

3.6.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.	

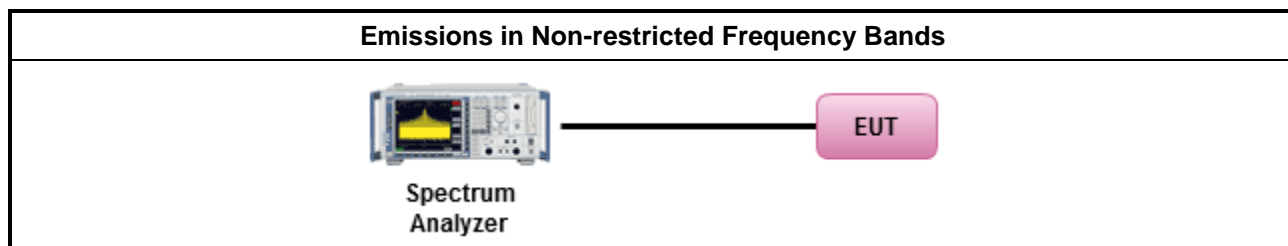
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.

3.6.4 Test Setup



3.6.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix F

3.7 Emissions in Restricted Frequency Bands

3.7.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB / decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

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

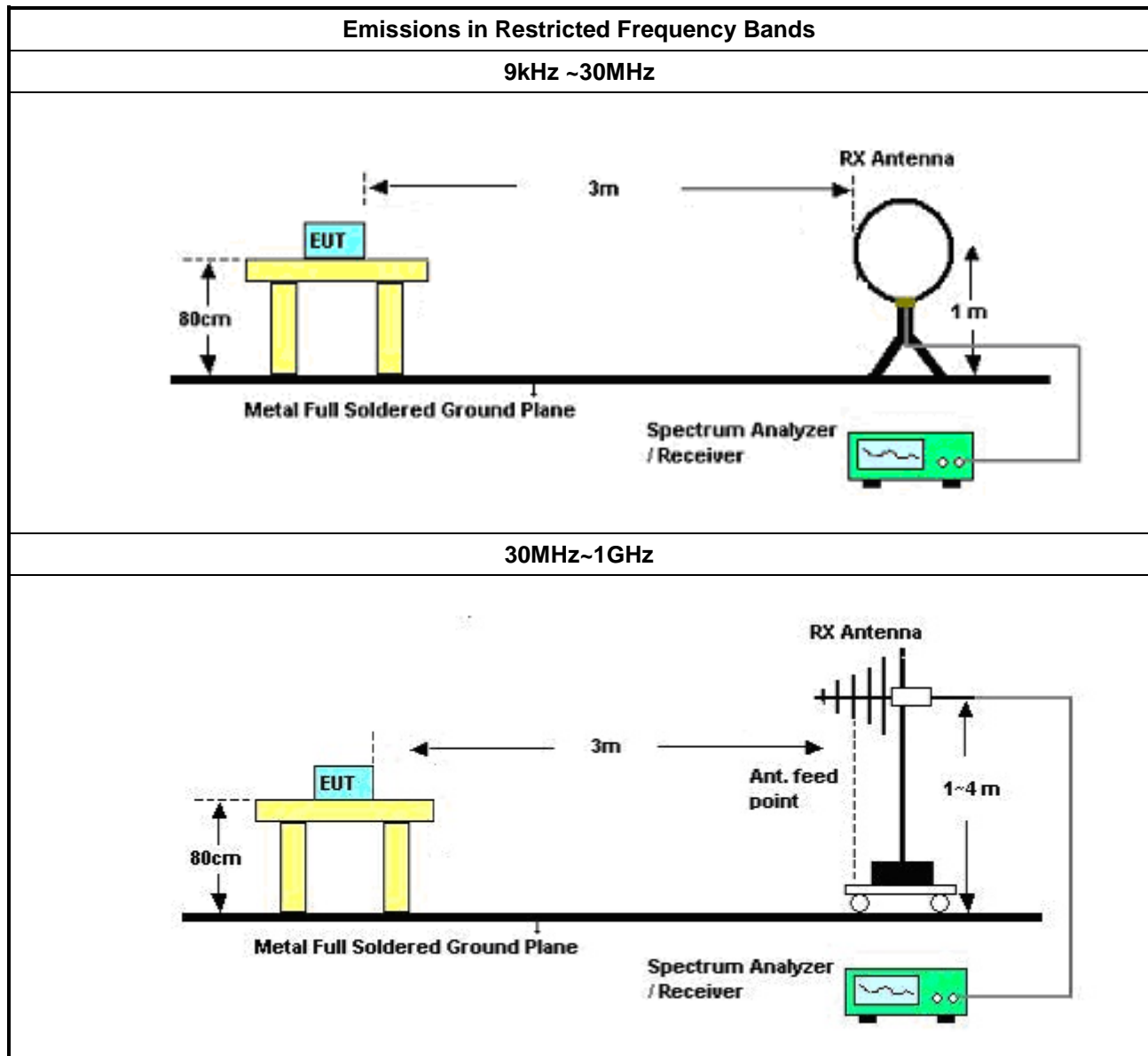
3.7.2 Measuring Instruments

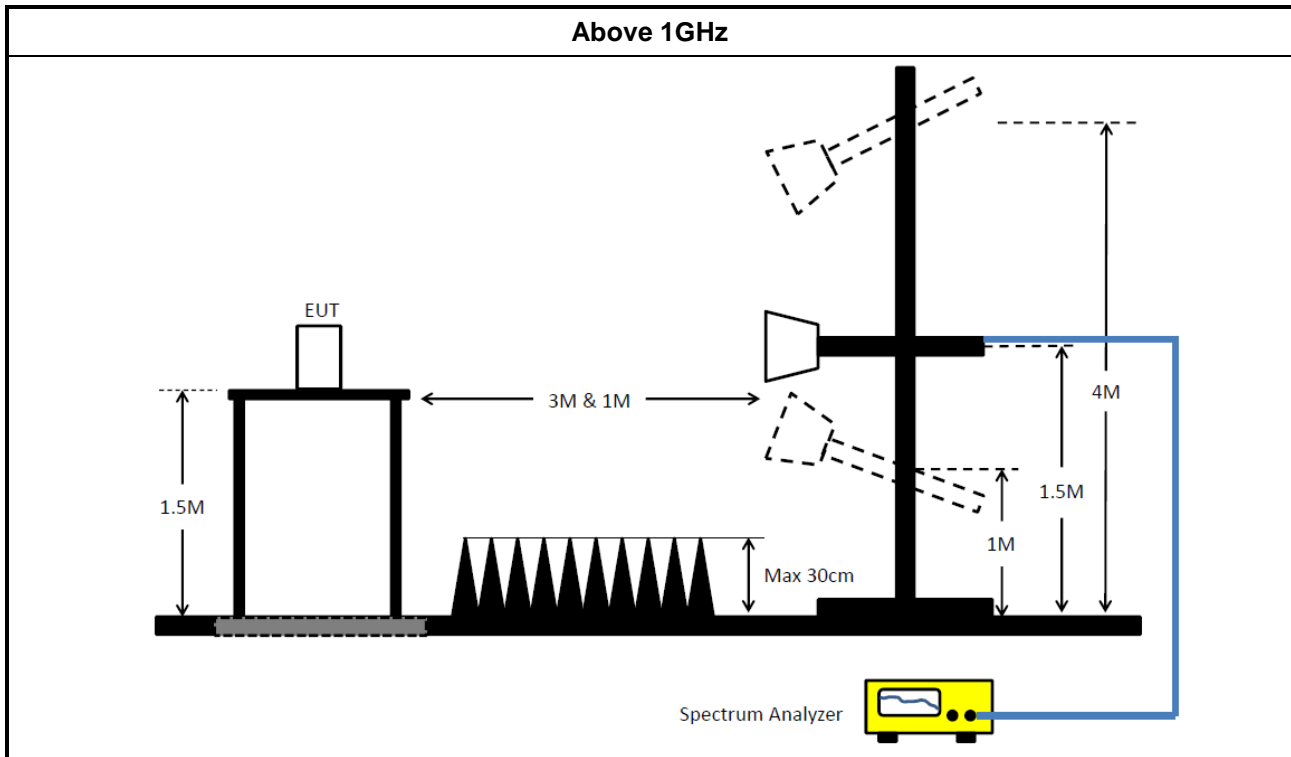
Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
	▪ The average emission levels shall be measured in [hopping duty factor].
	▪ Refer as ANSI C63.10; clause 6.9.2.2 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
	▪ For the transmitter unwanted emissions shall be measured using following options below:
	▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.
	▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.

3.7.4 Test Setup





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

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

3.7.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix G

4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	15/Nov/2016	14/Nov/2017
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
LISN (Support Unit)	EMCO	3810/2	9703-1839	9kHz ~ 30MHz	NCR	NCR
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127-477	9kHz ~ 30MHz	14/ Feb/2017	13/ Feb/2018
AC POWER	APC	AFC-11005 G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	05/Oct/2017	04/Oct/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

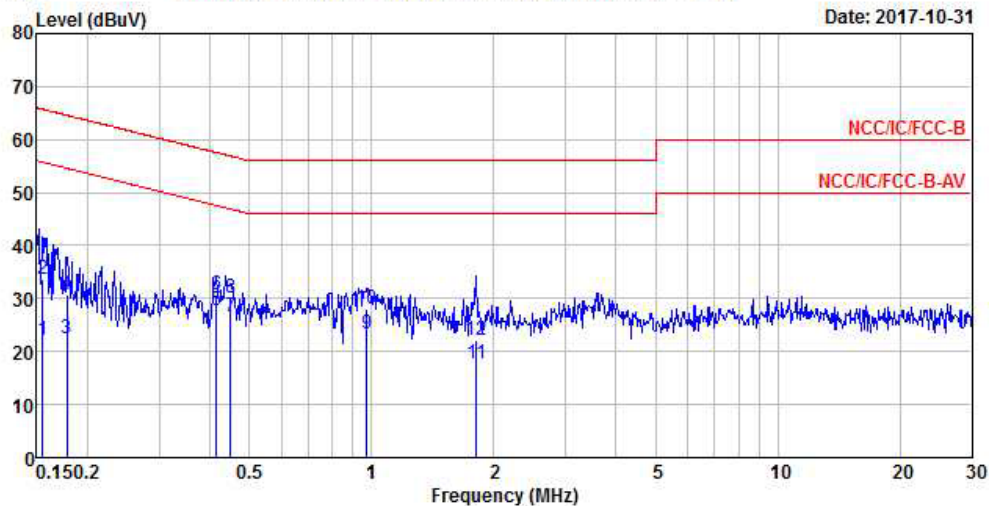
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	30MHz ~ 1GHz	28/Nov/2016	27/Nov/2017
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz	16/Dec/2016	15/Dec/2017
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	19/Apr/2017	18/Apr/2018
Amplifier	KEYSIGHT	83017A	MY53270197	1GHz ~ 26.5GHz	31/Aug/2017	30/Aug/2018
Spectrum	R&S	FSV40	101500	9kHz ~ 40GHz	28/Jun/2017	27/Jun/2018
Bilog Antenna	SCHAFFNER	CBL 6112D	22237	30MHz ~ 1GHz	08/Jul/2017	07/Jul/2018
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA 9120D 1531	1GHz ~ 18GHz	25/Apr/2017	24/Apr/2018
Loop Antenna	TESEQ	HLA 6120	24155	9 kHz~30 MHz	02/Mar/2017	01/Mar/2018
RF-Cable-high	SUHNER	SUHNER	CB222	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018
Receiver	R&S	ESR3	102052	9KHz ~ 3.6GHz	29/Apr/2017	28/Apr/2018

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101515	9kHz~40GHz	28/Nov/2016	27/Nov/2017
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	24/Feb/2017	23/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	USB mode		



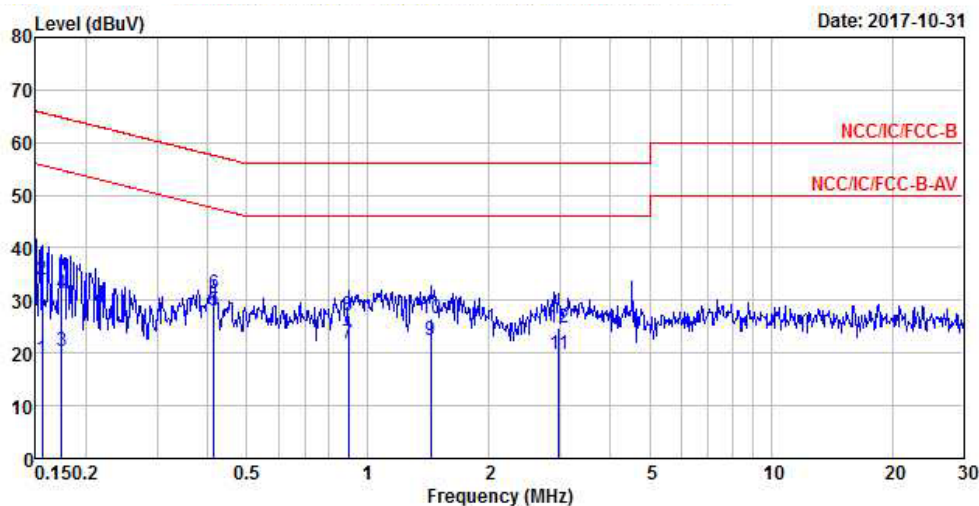
	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.15485	22.26	-33.48	55.74	12.61	9.61	0.04	Average
2	0.15485	33.70	-32.04	65.74	24.05	9.61	0.04	QP
3	0.17772	22.47	-32.12	54.59	12.81	9.64	0.02	Average
4	0.17772	30.75	-33.84	64.59	21.09	9.64	0.02	QP
5 MAX	0.41485	27.71	-19.84	47.55	17.98	9.63	0.10	Average
6	0.41485	30.80	-26.75	57.55	21.07	9.63	0.10	QP
7	0.44916	26.60	-20.29	46.89	16.88	9.63	0.09	Average
8	0.44916	30.02	-26.87	56.89	20.30	9.63	0.09	QP
9	0.97354	23.31	-22.69	46.00	13.72	9.59	0.00	Average
10	0.97354	28.07	-27.93	56.00	18.48	9.59	0.00	QP
11	1.80957	17.58	-28.42	46.00	7.94	9.64	0.00	Average
12	1.80957	22.04	-33.96	56.00	12.40	9.64	0.00	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
Operating Function	USB mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15567	19.01	-36.68	55.69	9.31	9.66	0.04	Average
2	0.15567	33.85	-31.84	65.69	24.15	9.66	0.04	QP
3	0.17399	20.50	-34.27	54.77	10.83	9.65	0.02	Average
4	0.17399	31.27	-33.50	64.77	21.60	9.65	0.02	QP
5 MAX	0.41485	28.00	-19.55	47.55	18.22	9.68	0.10	Average
6	0.41485	31.18	-26.37	57.55	21.40	9.68	0.10	QP
7	0.89441	21.74	-24.26	46.00	12.09	9.64	0.01	Average
8	0.89441	27.25	-28.75	56.00	17.60	9.64	0.01	QP
9	1.43328	22.29	-23.71	46.00	12.58	9.71	0.00	Average
10	1.43328	26.71	-29.29	56.00	17.00	9.71	0.00	QP
11	2.97764	19.92	-26.08	46.00	10.09	9.78	0.05	Average
12	2.97764	24.81	-31.19	56.00	14.98	9.78	0.05	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)
902-928MHz	-	-	-	-	-
SRD_Nss1_1TX	322k	361.819k	362KD1D	311k	353.823k

Max-N dB = Maximum 20dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

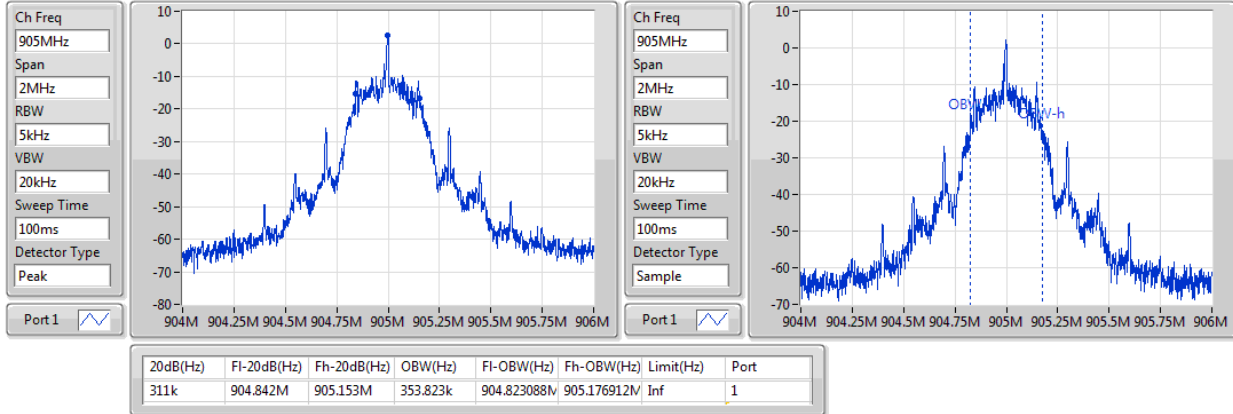
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
SRD_Nss1_1TX	-	-	-	-
905MHz	Pass	Inf	311k	353.823k
914.6MHz	Pass	Inf	322k	360.82k
925MHz	Pass	Inf	312k	361.819k

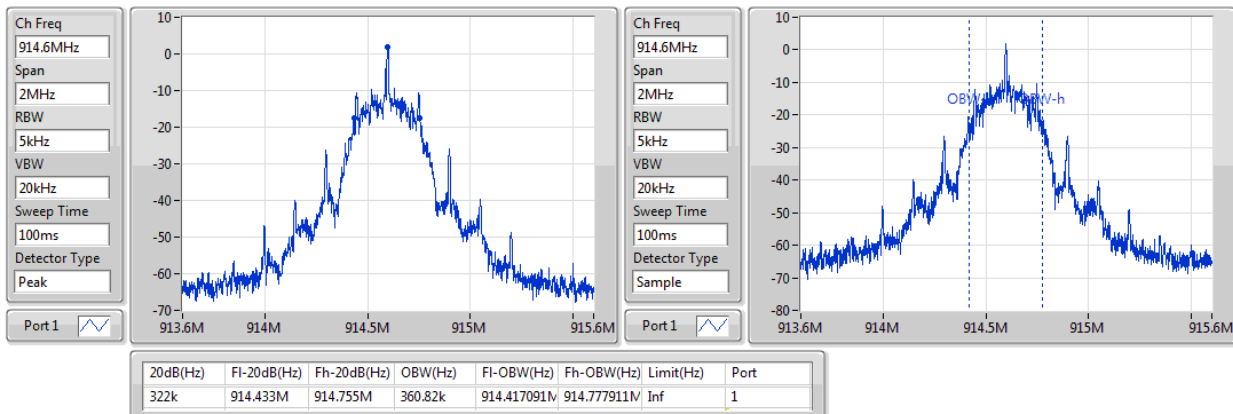
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

SRD_Nss1_1TX
EBW
905MHz

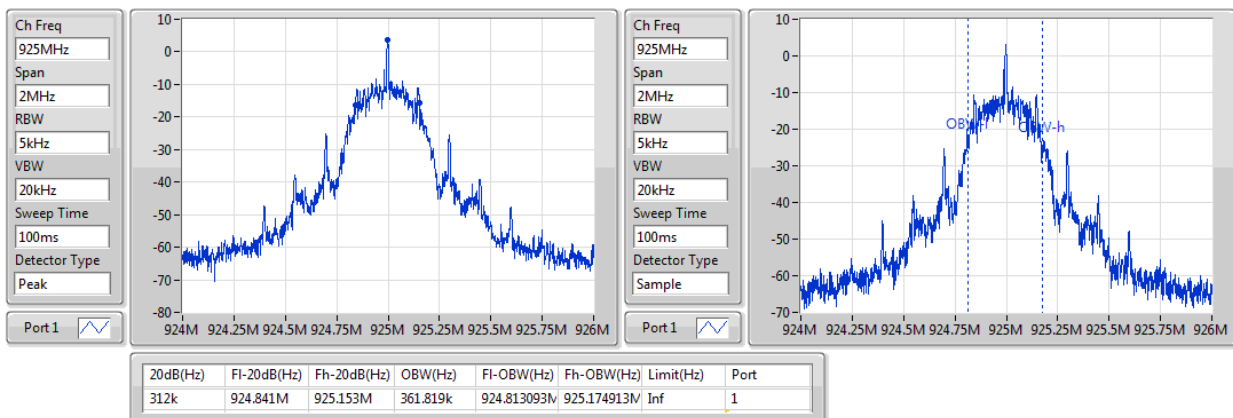
03/11/2017


SRD_Nss1_1TX
EBW
914.6MHz

03/11/2017


SRD_Nss1_1TX
EBW
925MHz

03/11/2017



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
902-928MHz	-	-
SRD_Nss1_1TX	805.2k	795.6k

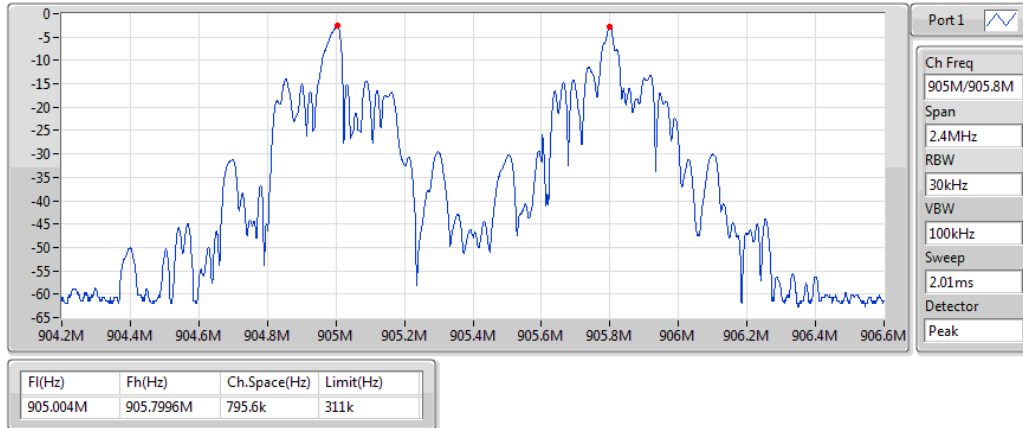
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
SRD_Nss1_1TX	-	-	-	-	-
905MHz	Pass	905.004M	905.7996M	795.6k	311k
914.6MHz	Pass	914.5992M	915.4044M	805.2k	322k
925MHz	Pass	924.1872M	924.9924M	805.2k	312k

SRD_Nss1_1TX

Channel Separation

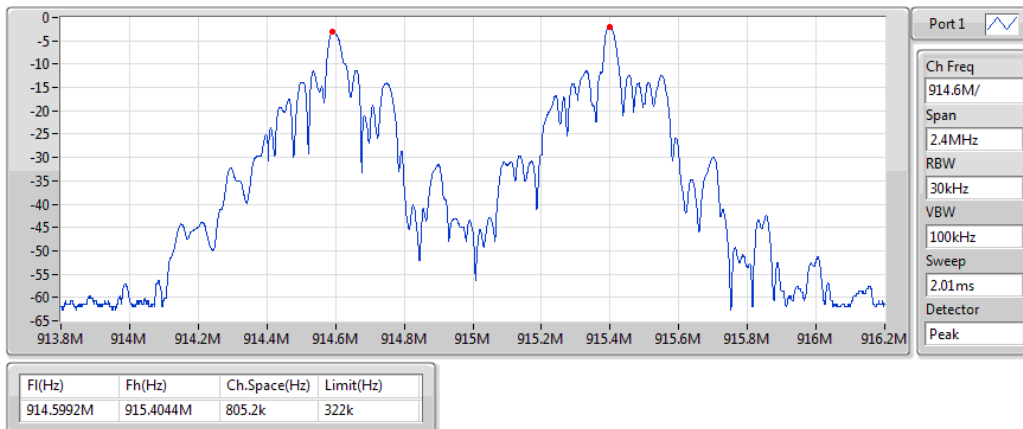
905M/905.8MHz



SRD_Nss1_1TX

Channel Separation

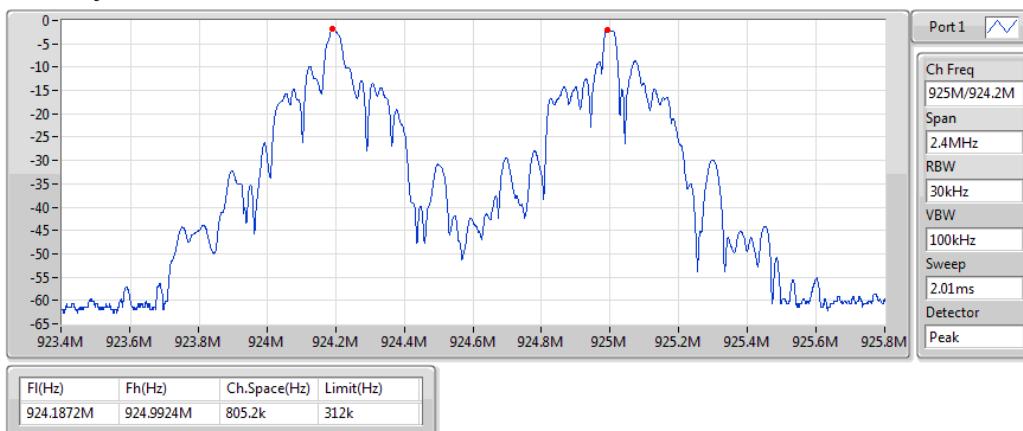
914.6M/915.4MHz



SRD_Nss1_1TX

Channel Separation

925M/924.2MHz



Summary

Mode	Power (dBm)	Power (W)
902-928MHz	-	-
SRD_Nss1_1TX	9.76	0.00946

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
SRD_Nss1_1TX	-	-	-	-
905MHz	Pass	-2.90	8.77	30.00
914.6MHz	Pass	-2.90	8.61	30.00
925MHz	Pass	-2.90	9.76	30.00

Summary

Mode	Power	Power
	(dBm)	(W)
902-928MHz	-	-
SRD_Nss1_1TX	9.46	0.00883

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
SRD_Nss1_1TX	-	-	-	-
905MHz	Pass	-2.90	8.56	30.00
914.6MHz	Pass	-2.90	8.44	30.00
925MHz	Pass	-2.90	9.46	30.00



Summary

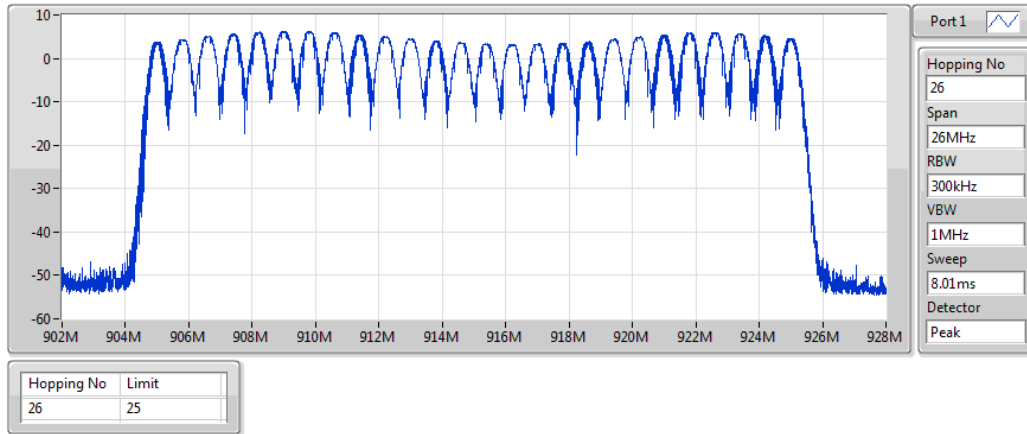
Mode	Max-Hop No
902-928MHz	-
SRD_Nss1_1TX	26

Result

Mode	Result	Hopping No	Limit
SRD_Nss1_1TX	-	-	-
914.6MHz	Pass	26	25

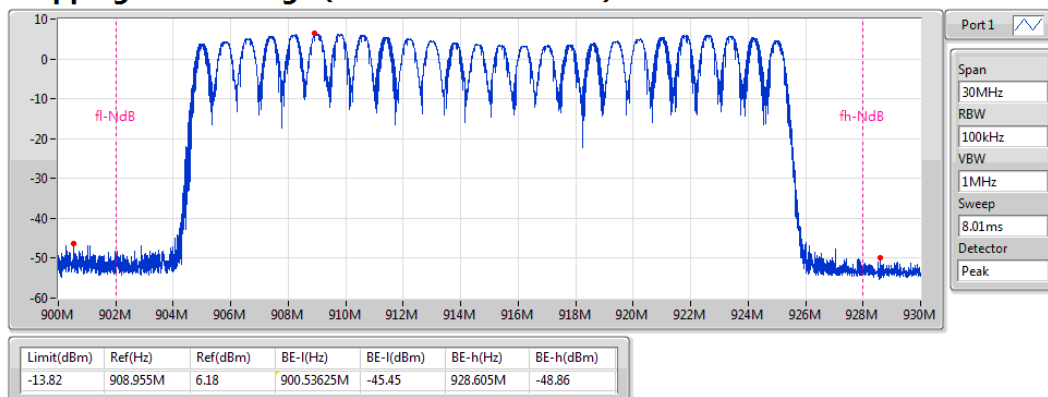
SRD_Nss1_1TX
914.6MHz

Hopping Ch



SRD_Nss1_1TX
914.6MHz

Hopping Ch Bandedge (Non-restricted Band)



Summary

Mode	Max-Dwell (s)
902-928MHz	-
SRD_Nss1_1TX	150m

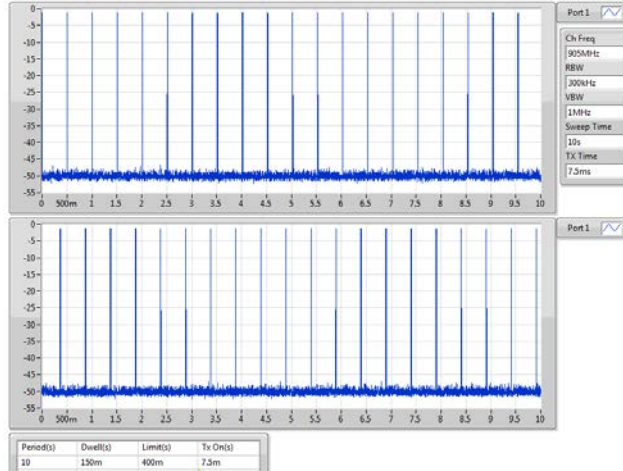
Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
SRD_Nss1_1TX	-	-	-	-	-
905MHz	Pass	10	150m	400m	7.5m
914.6MHz	Pass	10	150m	400m	7.5m
925MHz	Pass	10	150m	400m	7.5m

SRD_Nss1_1TX

Dwell

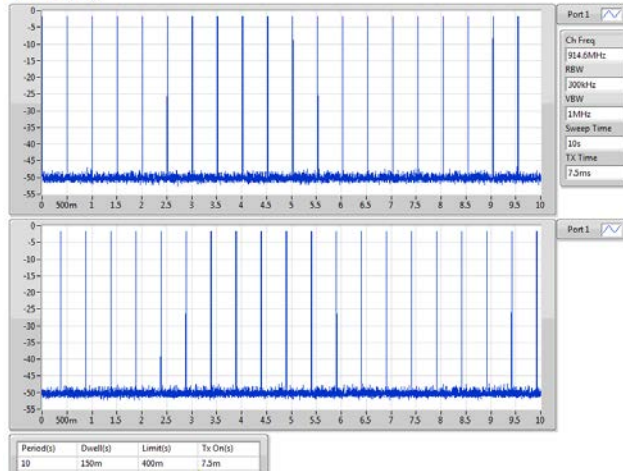
905MHz



SRD_Nss1_1TX

Dwell

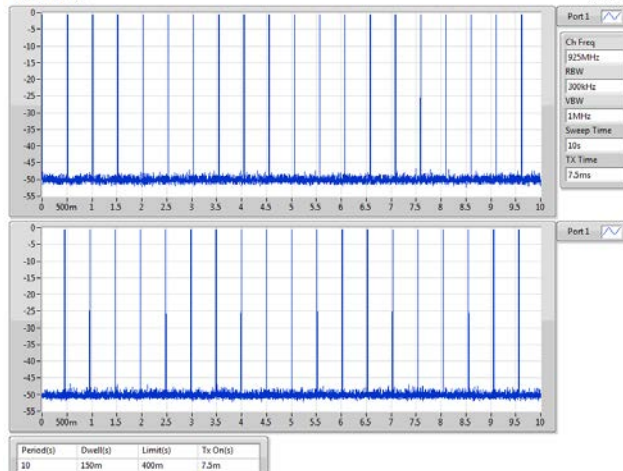
914.6MHz



SRD_Nss1_1TX

Dwell

925MHz



Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-	-
SRD_Nss1_1TX	Pass	905.016M	3.31	-16.69	899.5296M	-51.40	901.1872M	-50.25	928.5216M	-59.50	5.614462G	-54.82	1

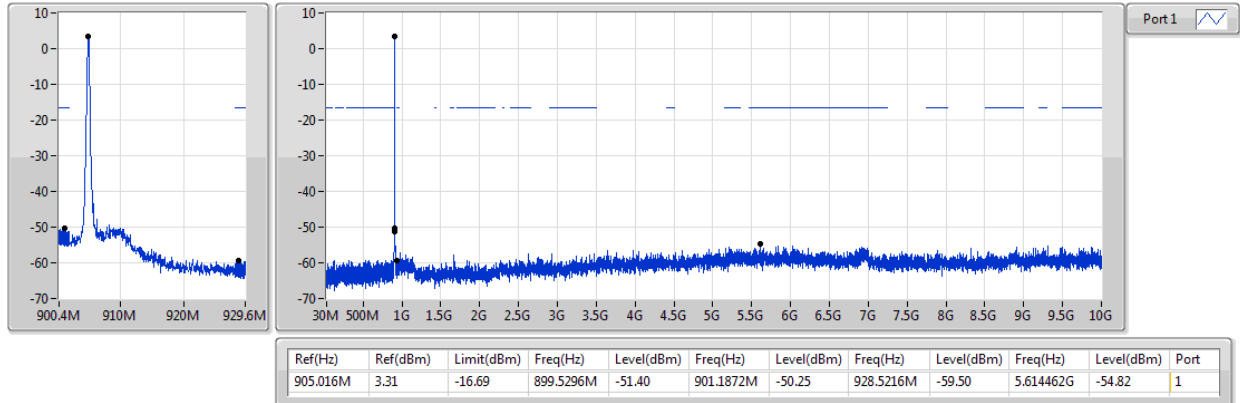
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
SRD_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	905.016M	3.31	-16.69	899.5296M	-51.40	901.1872M	-50.25	928.5216M	-59.50	5.614462G	-54.82	1
914.6MHz	Pass	914.584M	2.97	-17.03	893.0016M	-58.28	900.6272M	-57.48	928.08M	-58.29	6.799283G	-54.31	1
925MHz	Pass	924.984M	4.04	-15.96	679.7536M	-58.41	901.8528M	-58.26	929.1712M	-52.73	5.632602G	-54.53	1

SRD_Nss1_1TX

CSE NdB

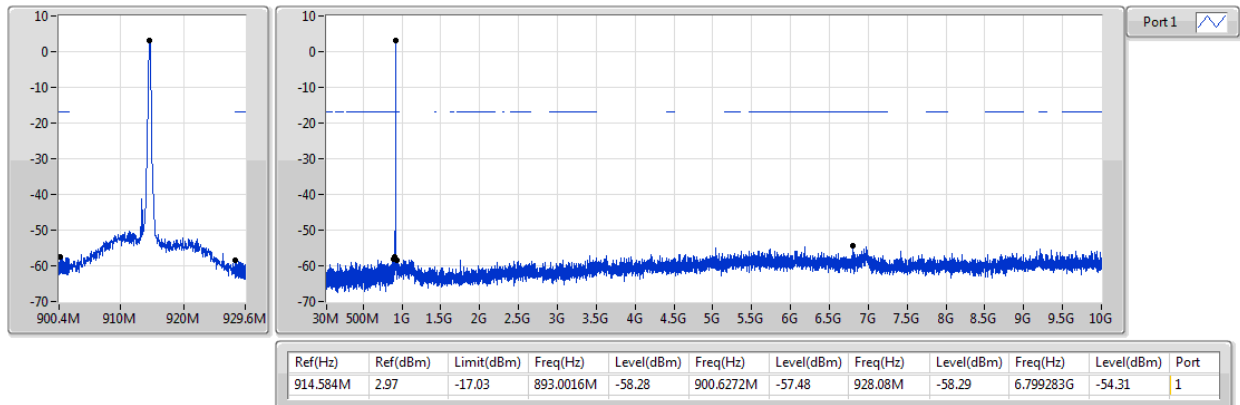
905MHz



SRD_Nss1_1TX

CSE NdB

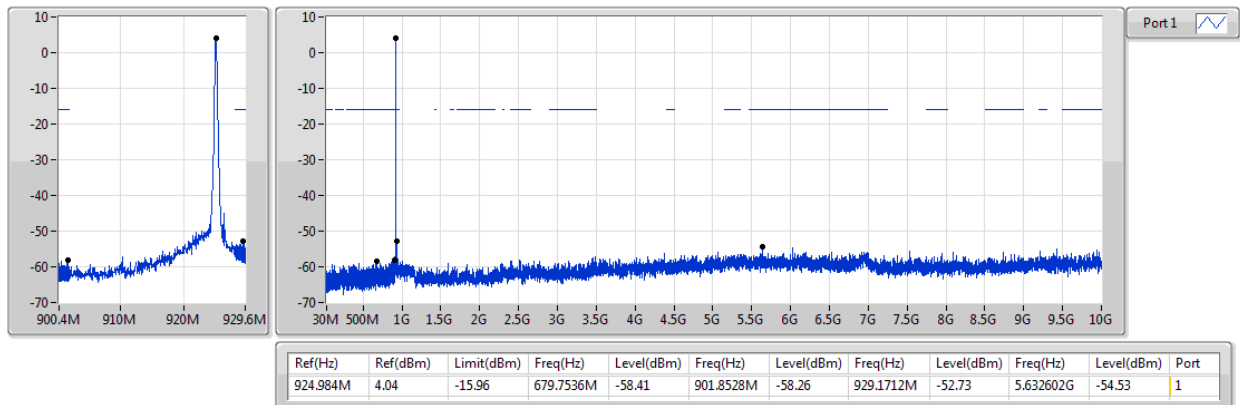
914.6MHz



SRD_Nss1_1TX

CSE NdB

925MHz





RSE TX below 1GHz Result

Appendix G.1

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-
SRD_Nss1_1TX	Pass	PK	901.9M	42.09	46.00	-3.91	3.09	3	Horizontal	355	1.00	-

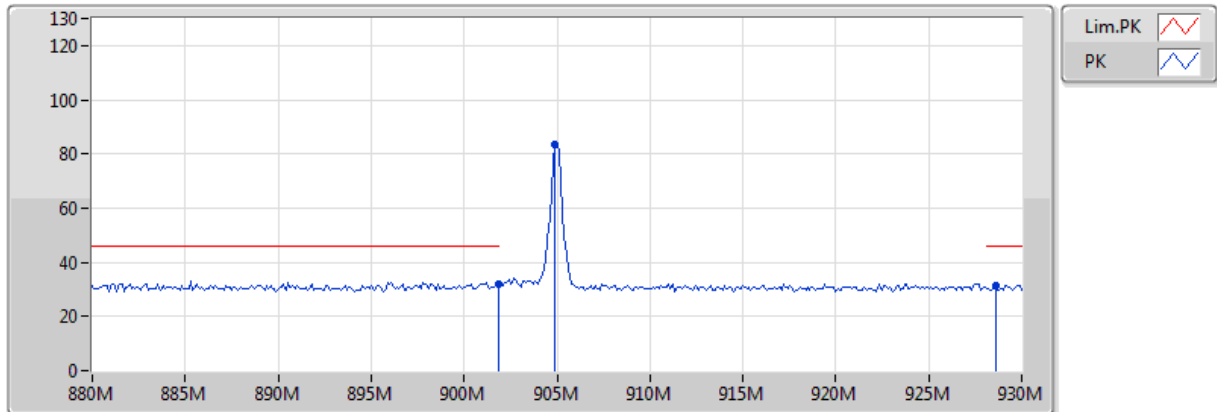
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
SRD_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	PK	901.9M	42.09	46.00	-3.91	3.09	3	Horizontal	355	1.00	-
905MHz	Pass	PK	905M	95.12	Inf	-Inf	3.09	3	Horizontal	355	1.00	-
905MHz	Pass	PK	928.6M	31.49	46.00	-14.51	3.13	3	Horizontal	355	1.00	-
905MHz	Pass	PK	901.9M	31.73	46.00	-14.27	3.09	3	Vertical	130	1.10	-
905MHz	Pass	PK	904.9M	83.40	Inf	-Inf	3.09	3	Vertical	130	1.10	-
905MHz	Pass	PK	928.6M	31.21	46.00	-14.79	3.13	3	Vertical	130	1.10	-
914.6MHz	Pass	PK	901.9M	34.05	46.00	-11.95	3.09	3	Horizontal	354	1.00	-
914.6MHz	Pass	PK	914.6M	94.77	Inf	-Inf	3.07	3	Horizontal	354	1.00	-
914.6MHz	Pass	PK	930.9M	31.89	46.00	-14.11	3.15	3	Horizontal	354	1.00	-
914.6MHz	Pass	PK	899.6M	32.06	46.00	-13.94	3.08	3	Vertical	137	1.14	-
914.6MHz	Pass	PK	914.6M	83.40	Inf	-Inf	3.07	3	Vertical	137	1.14	-
914.6MHz	Pass	PK	929M	32.21	46.00	-13.79	3.13	3	Vertical	137	1.14	-
914.6MHz	Pass	PK	897.18M	37.77	46.00	-8.23	3.04	3	Vertical	360	1.00	-
914.6MHz	Pass	PK	31.94M	28.40	40.00	-11.60	-4.85	3	Horizontal	0	1.00	-
914.6MHz	Pass	PK	191.02M	33.97	43.50	-9.53	-11.43	3	Horizontal	0	1.00	-
914.6MHz	Pass	PK	288.02M	34.34	46.00	-11.66	-6.64	3	Horizontal	0	1.00	-
914.6MHz	Pass	PK	311.3M	35.38	46.00	-10.62	-6.08	3	Horizontal	0	1.00	-
914.6MHz	Pass	PK	365.62M	28.92	46.00	-17.08	-5.18	3	Horizontal	0	1.00	-
914.6MHz	Pass	PK	613.94M	30.49	46.00	-15.51	-0.98	3	Horizontal	0	1.00	-
914.6MHz	Pass	PK	45.52M	32.52	40.00	-7.48	-11.77	3	Vertical	360	1.00	-
914.6MHz	Pass	PK	127M	29.58	43.50	-13.92	-8.86	3	Vertical	360	1.00	-
914.6MHz	Pass	PK	255.04M	30.46	46.00	-15.54	-6.76	3	Vertical	360	1.00	-
914.6MHz	Pass	PK	309.36M	31.09	46.00	-14.91	-6.09	3	Vertical	360	1.00	-
914.6MHz	Pass	PK	350.1M	28.28	46.00	-17.72	-5.60	3	Vertical	360	1.00	-
925MHz	Pass	PK	900.4M	28.59	46.00	-17.41	2.82	3	Horizontal	319	1.01	-
925MHz	Pass	PK	925M	88.04	Inf	-Inf	3.11	3	Horizontal	319	1.01	-
925MHz	Pass	PK	928.3M	32.84	46.00	-13.16	3.18	3	Horizontal	319	1.01	-
925MHz	Pass	PK	900.8M	27.96	46.00	-18.04	2.83	3	Vertical	32	1.64	-
925MHz	Pass	PK	925M	78.98	Inf	-Inf	3.11	3	Vertical	32	1.64	-
925MHz	Pass	PK	935.1M	29.22	46.00	-16.78	3.33	3	Vertical	32	1.64	-

SRD_Nss1_1TX

905MHz_TX

30/10/2017

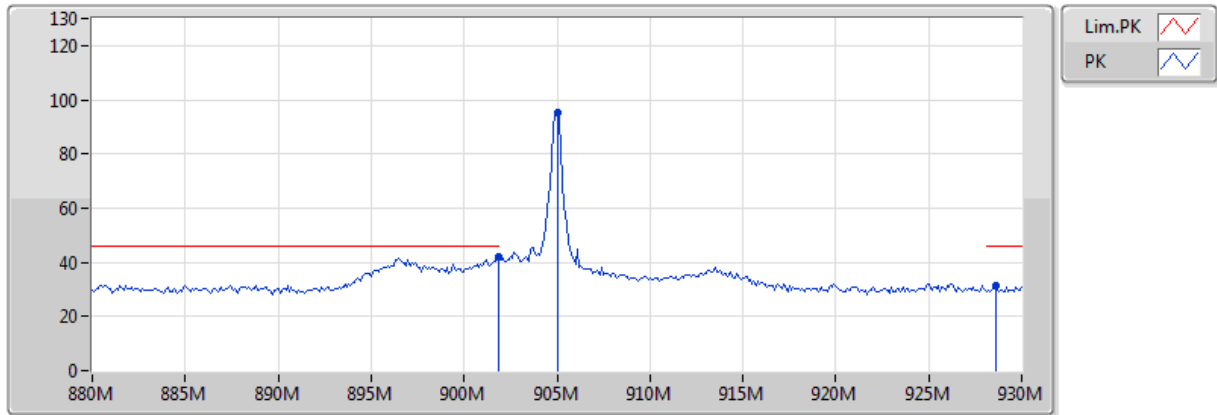


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	901.9M	31.73	46.00	-14.27	3.09	3	Vertical	130	1.10	-	28.64	25.55	5.19	27.65
PK	904.9M	83.40	Inf	-Inf	3.09	3	Vertical	130	1.10	-	80.31	25.56	5.17	27.64
PK	928.6M	31.21	46.00	-14.79	3.13	3	Vertical	130	1.10	-	28.08	25.70	4.96	27.54

SRD_Nss1_1TX

905MHz_TX

30/10/2017

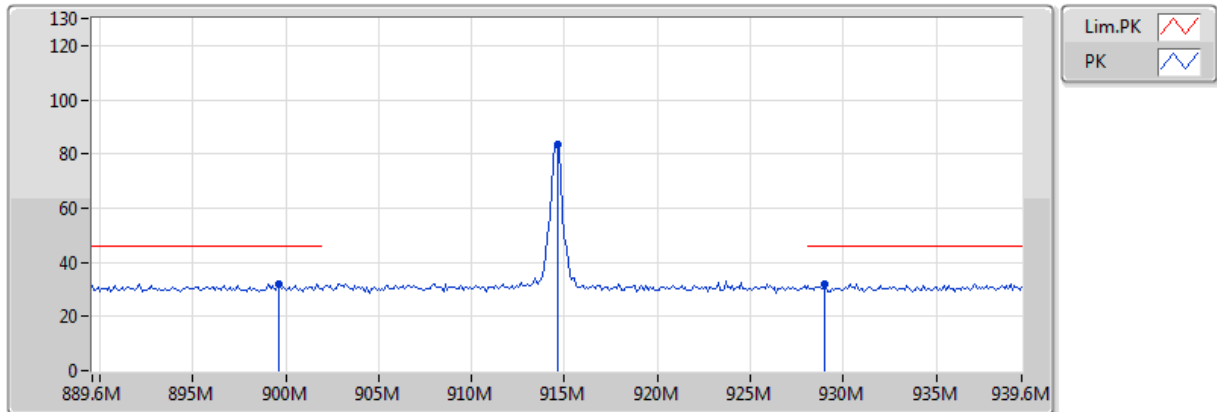


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	901.9M	42.09	46.00	-3.91	3.09	3	Horizontal	355	1.00	-	39.00	25.55	5.19	27.65
PK	905M	95.12	Inf	-Inf	3.09	3	Horizontal	355	1.00	-	92.03	25.56	5.17	27.64
PK	928.6M	31.49	46.00	-14.51	3.13	3	Horizontal	355	1.00	-	28.36	25.70	4.96	27.54

SRD_Nss1_1TX

914.6MHz_TX

30/10/2017

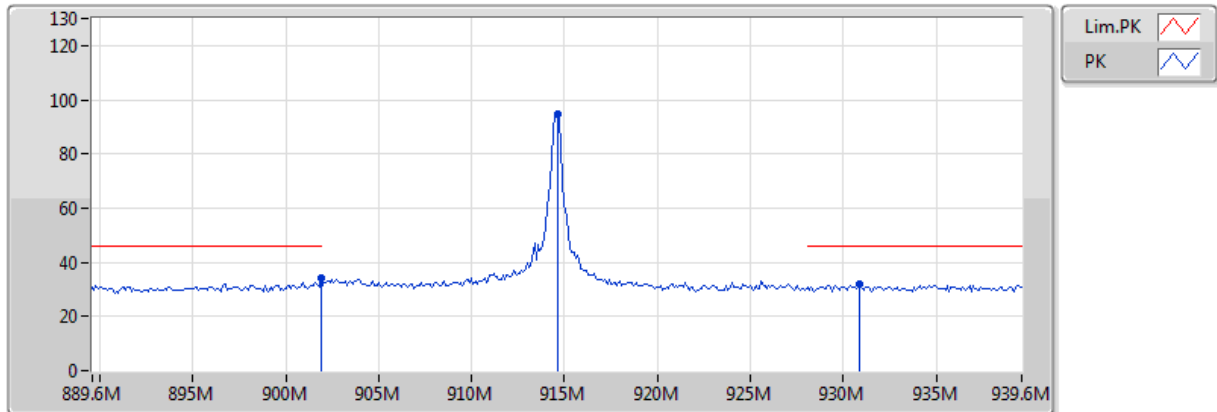


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	899.6M	32.06	46.00	-13.94	3.08	3	Vertical	137	1.14	-	28.98	25.54	5.21	27.66
PK	914.6M	83.40	Inf	-Inf	3.07	3	Vertical	137	1.14	-	80.33	25.59	5.08	27.60
PK	929M	32.21	46.00	-13.79	3.13	3	Vertical	137	1.14	-	29.08	25.71	4.96	27.54

SRD_Nss1_1TX

914.6MHz_TX

30/10/2017

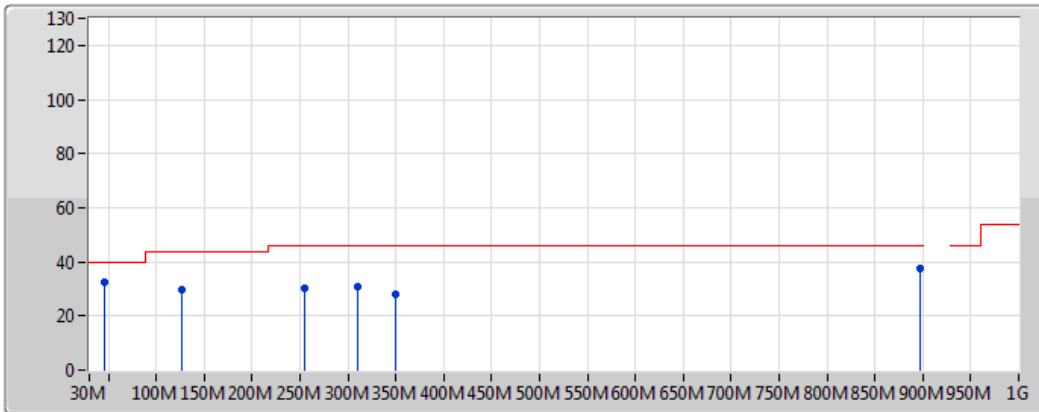




Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	901.9M	34.05	46.00	-11.95	3.09	3	Horizontal	354	1.00	-	30.96	25.55	5.19	27.65
PK	914.6M	94.77	Inf	-Inf	3.07	3	Horizontal	354	1.00	-	91.70	25.59	5.08	27.60
PK	930.9M	31.89	46.00	-14.11	3.15	3	Horizontal	354	1.00	-	28.74	25.74	4.94	27.53

SRD_Nss1_1TX

914.6MHz_USB mode

30/10/2017



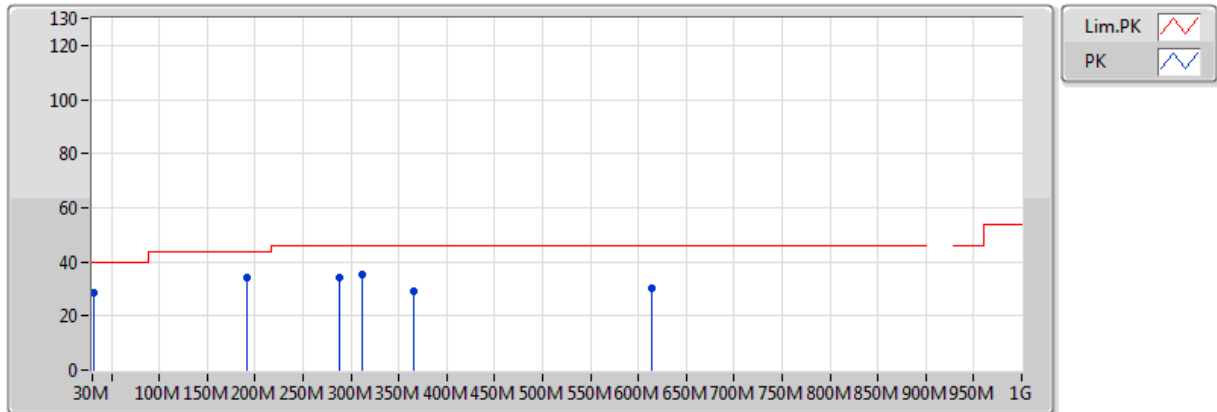
Lim.PK 
PK 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	45.52M	32.52	40.00	-7.48	-11.77	3	Vertical	360	1.00	-	44.29	14.85	1.00	27.62
PK	127M	29.58	43.50	-13.92	-8.86	3	Vertical	360	1.00	-	38.44	17.17	1.68	27.71
PK	255.04M	30.46	46.00	-15.54	-6.76	3	Vertical	360	1.00	-	37.22	18.32	2.24	27.31
PK	309.36M	31.09	46.00	-14.91	-6.09	3	Vertical	360	1.00	-	37.18	18.65	2.54	27.27
PK	350.1M	28.28	46.00	-17.72	-5.60	3	Vertical	360	1.00	-	33.88	19.38	2.60	27.58
PK	897.18M	37.77	46.00	-8.23	3.04	3	Vertical	360	1.00	-	34.73	25.53	5.18	27.67

SRD_Nss1_1TX

914.6MHz_USB mode

30/10/2017

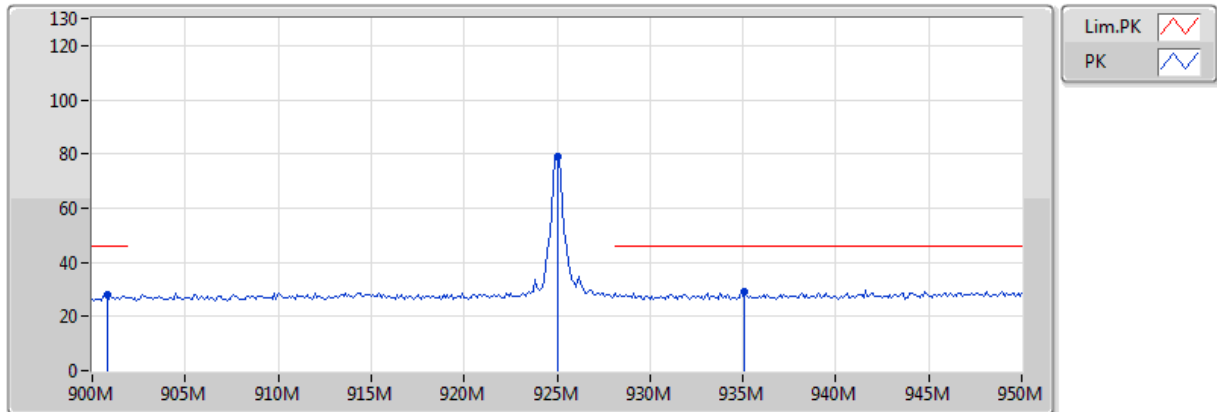


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	31.94M	28.40	40.00	-11.60	-4.85	3	Horizontal	0	1.00	-	33.25	22.27	0.71	27.83
PK	191.02M	33.97	43.50	-9.53	-11.43	3	Horizontal	0	1.00	-	45.40	14.06	1.98	27.48
PK	288.02M	34.34	46.00	-11.66	-6.64	3	Horizontal	0	1.00	-	40.98	18.13	2.45	27.23
PK	311.3M	35.38	46.00	-10.62	-6.08	3	Horizontal	0	1.00	-	41.46	18.67	2.54	27.29
PK	365.62M	28.92	46.00	-17.08	-5.18	3	Horizontal	0	1.00	-	34.10	19.80	2.72	27.70
PK	613.94M	30.49	46.00	-15.51	-0.98	3	Horizontal	0	1.00	-	31.47	23.86	3.69	28.53

SRD_Nss1_1TX

925MHz_TX

30/10/2017

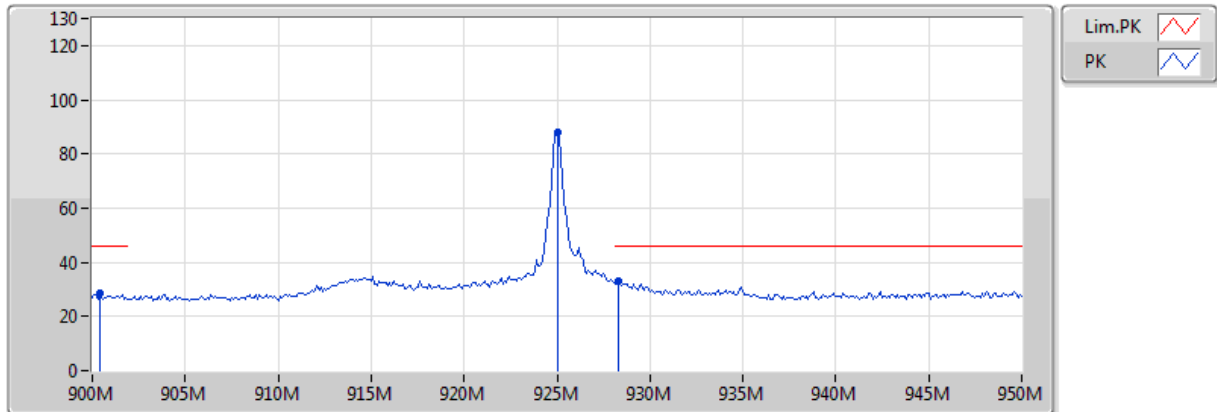


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	900.8M	27.96	46.00	-18.04	2.83	3	Vertical	32	1.64	-	25.13	25.54	4.78	27.50
PK	925M	78.98	Inf	-Inf	3.11	3	Vertical	32	1.64	-	75.87	25.66	4.88	27.43
PK	935.1M	29.22	46.00	-16.78	3.33	3	Vertical	32	1.64	-	25.89	25.81	4.92	27.39

SRD_Nss1_1TX

925MHz_TX

30/10/2017



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
PK	900.4M	28.59	46.00	-17.41	2.82	3	Horizontal	319	1.01	-	25.77	25.54	4.78	27.50
PK	925M	88.04	Inf	-Inf	3.11	3	Horizontal	319	1.01	-	84.93	25.66	4.88	27.43
PK	928.3M	32.84	46.00	-13.16	3.18	3	Horizontal	319	1.01	-	29.66	25.70	4.89	27.42

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
902-928MHz	-	-	-	-	-	-	-	-	-	-	-	-
SRD_Nss1_1TX	Pass	AV	2.775G	26.82	54.00	-27.18	-2.58	3	Vertical	40	1.12	-

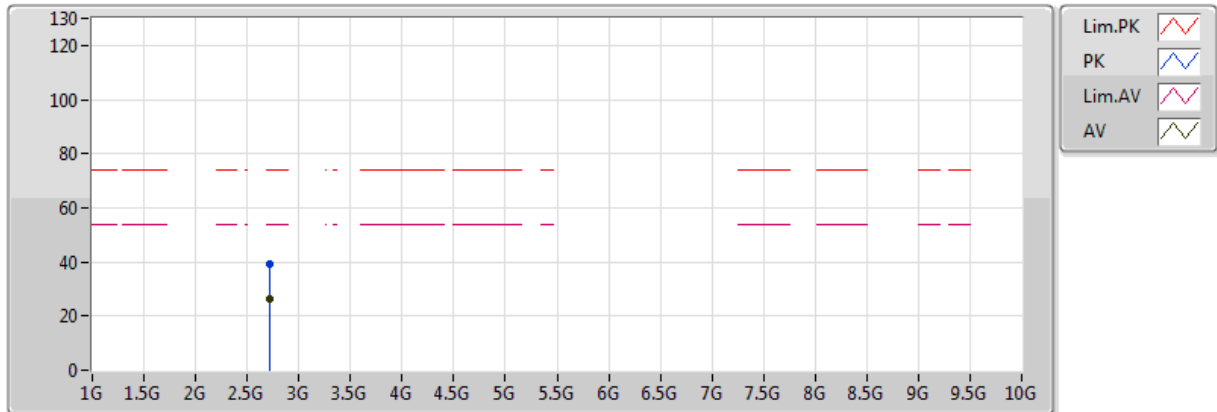
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
SRD_Nss1_1TX	-	-	-	-	-	-	-	-	-	-	-	-
905MHz	Pass	AV	2.715G	25.82	54.00	-28.18	-2.73	3	Horizontal	262	1.51	-
905MHz	Pass	PK	2.715G	37.92	74.00	-36.08	-2.73	3	Horizontal	262	1.50	-
905MHz	Pass	AV	2.715G	26.56	54.00	-27.44	-2.73	3	Vertical	36	1.01	-
905MHz	Pass	PK	2.715G	39.39	74.00	-34.61	-2.73	3	Vertical	36	1.01	-
914.6MHz	Pass	AV	2.7438G	25.48	54.00	-28.52	-2.66	3	Horizontal	272	1.61	-
914.6MHz	Pass	PK	2.7438G	38.53	74.00	-35.47	-2.66	3	Horizontal	272	1.61	-
914.6MHz	Pass	AV	2.7438G	26.58	54.00	-27.42	-2.66	3	Vertical	34	1.50	-
914.6MHz	Pass	PK	2.7438G	39.53	74.00	-34.47	-2.66	3	Vertical	34	1.50	-
925MHz	Pass	AV	2.775G	25.98	54.00	-28.02	-2.58	3	Horizontal	242	1.55	-
925MHz	Pass	PK	2.775G	38.64	74.00	-35.36	-2.58	3	Horizontal	242	1.55	-
925MHz	Pass	AV	2.775G	26.82	54.00	-27.18	-2.58	3	Vertical	40	1.12	-
925MHz	Pass	PK	2.775G	39.77	74.00	-34.23	-2.58	3	Vertical	40	1.12	-

SRD_Nss1_1TX

905MHz_TX

27/10/2017

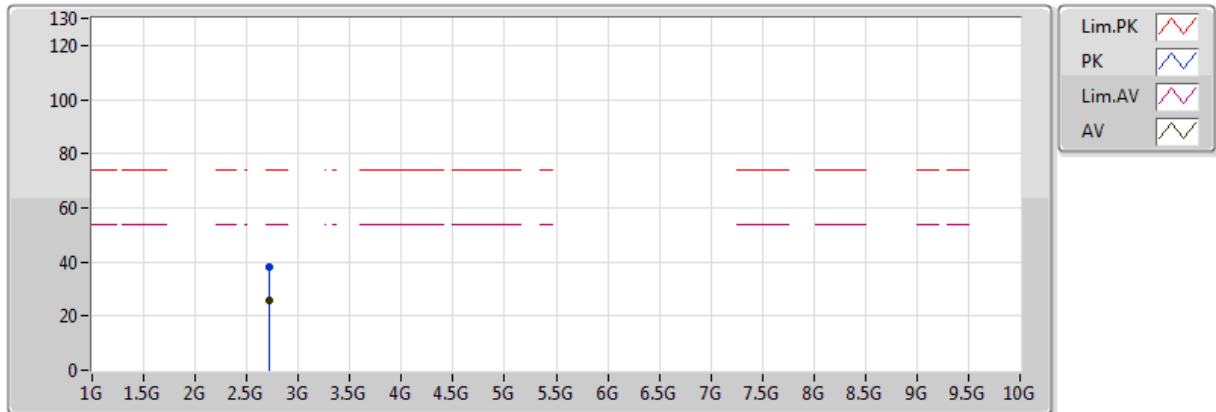


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.715G	26.56	54.00	-27.44	-2.73	3	Vertical	36	1.01	-	29.29	28.07	3.87	34.67
PK	2.715G	39.39	74.00	-34.61	-2.73	3	Vertical	36	1.01	-	42.12	28.07	3.87	34.67

SRD_Nss1_1TX

905MHz_TX

27/10/2017

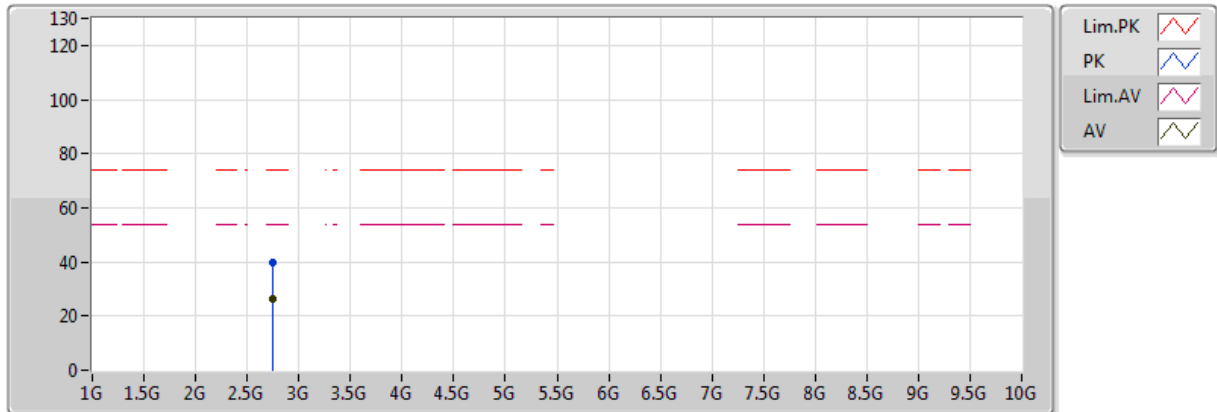


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.715G	25.82	54.00	-28.18	-2.73	3	Horizontal	262	1.50	-	28.55	28.07	3.87	34.67
PK	2.715G	37.92	74.00	-36.08	-2.73	3	Horizontal	262	1.50	-	40.65	28.07	3.87	34.67

SRD_Nss1_1TX

914.6MHz_TX

27/10/2017

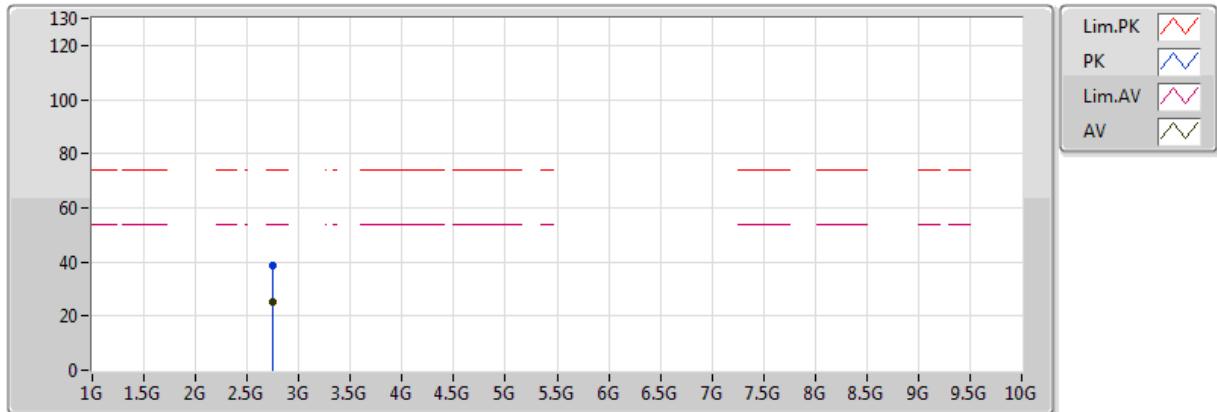


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.7438G	26.58	54.00	-27.42	-2.66	3	Vertical	34	1.50	-	29.24	28.14	3.89	34.68
PK	2.7438G	39.53	74.00	-34.47	-2.66	3	Vertical	34	1.50	-	42.19	28.14	3.89	34.68

SRD_Nss1_1TX

914.6MHz_TX

27/10/2017

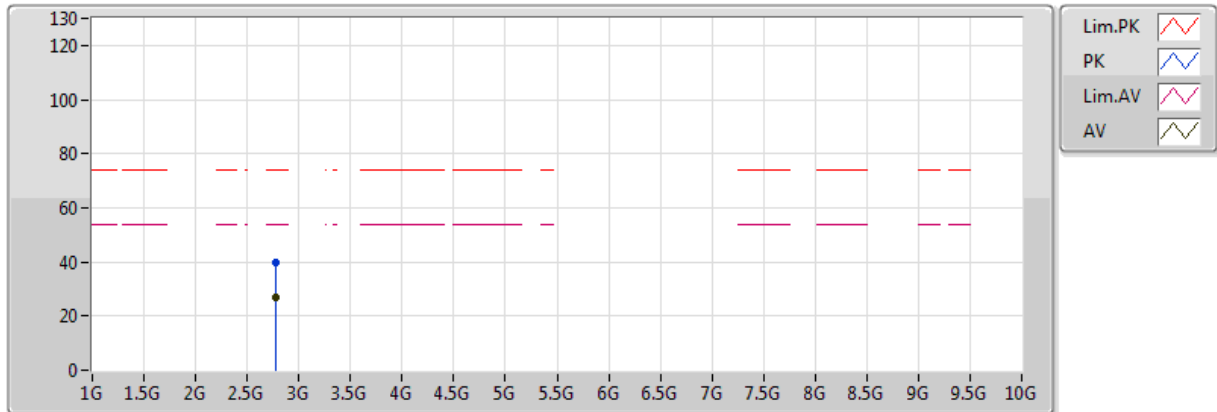


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.7438G	25.48	54.00	-28.52	-2.66	3	Horizontal	272	1.61	-	28.14	28.14	3.89	34.68
PK	2.7438G	38.53	74.00	-35.47	-2.66	3	Horizontal	272	1.61	-	41.19	28.14	3.89	34.68

SRD_Nss1_1TX

925MHz_TX

27/10/2017

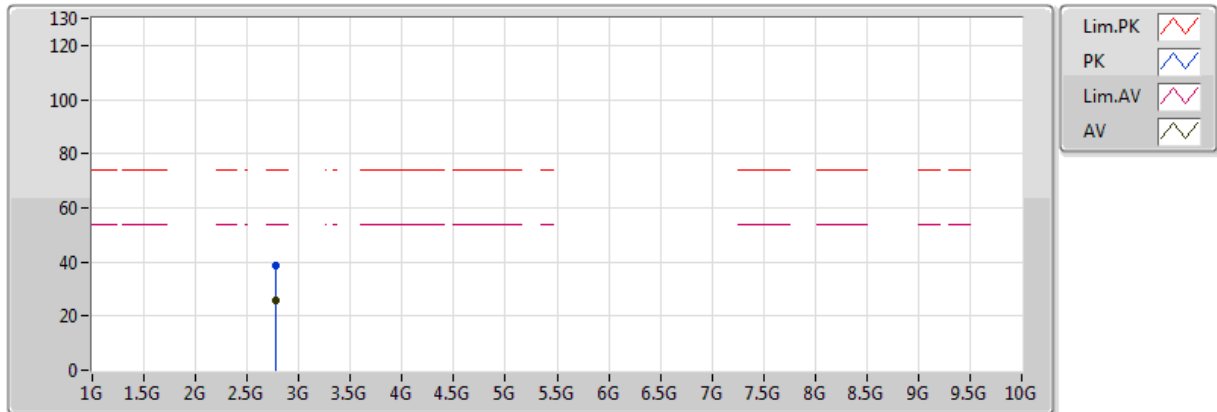


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.775G	26.82	54.00	-27.18	-2.58	3	Vertical	40	1.12	-	29.40	28.21	3.90	34.69
PK	2.775G	39.77	74.00	-34.23	-2.58	3	Vertical	40	1.12	-	42.35	28.21	3.90	34.69

SRD_Nss1_1TX

925MHz_TX

27/10/2017



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.775G	25.98	54.00	-28.02	-2.58	3	Horizontal	242	1.55	-	28.56	28.21	3.90	34.69
PK	2.775G	38.64	74.00	-35.36	-2.58	3	Horizontal	242	1.55	-	41.22	28.21	3.90	34.69