


# FCC Test Report

**FCC ID** : 2AA2U-UCW4026MCS  
**Equipment** : Set Top Box  
**Brand Name** : Technicolor  
**Model Name** : UCW4026MCS  
**Applicant** : Cal-Comp Electronics & Communications Company Limited  
3th FL., No. 99, Sec. 5, Nanjing E. Rd. Taipei 105 Taiwan  
**Manufacturer** : Cal-Comp Electronics & Communications Company Limited  
No. 147, Sec. 3, Beishen Rd., Shenkeng Dist., 222 New Taipei City, TAIWAN  
**Standard** : 47 CFR FCC Part 15.247

The product was received on Jul. 27, 2018, and testing was started from Jul. 31, 2018 and completed on Aug. 02, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



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Approved by: Allen Lin

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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**PHOTOGRAPHS OF EUT V01**



## History of this test report

Report No.	Version	Description	Issued Date
FR871710AD	01	Initial issue of report	Aug. 24, 2018



### Summary of Test Result

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

Reviewed by: Jackson Tsai

Report Producer: Debby Hung

# 1 General Description

## 1.1 Information

### 1.1.1 RF General Information

Frequency Range (MHz)	Bluetooth Version	Ch. Frequency (MHz)	Channel Number
2400-2483.5	BR / EDR	2402-2480	0-78 [79]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	BT-BR(1Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(2Mbps)	1	1TX
2.4-2.4835GHz	BT-EDR(3Mbps)	1	1TX

Note:

- ◆ Bluetooth BR uses a GFSK (1Mbps).
- ◆ Bluetooth EDR uses a combination of  $\pi/4$ -DQPSK (2Mbps) and 8DPSK (3Mbps).
- ◆ Bluetooth BR/EDR uses as a system using FHSS modulation.
- ◆ BWch is the nominal channel bandwidth.

### 1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Hongbo	-	PIFA Antenna	Murata
2	Hongbo	-	PIFA Antenna	I-PEX
3	Hongbo	-	PIFA Antenna	Murata

Ant.	Port	Gain (dBi)		
		2.4G	5G	BT
1	2	2.61	3.67	-
2	1	2.60	3.64	-
3	1	-	-	1.92

**For 2.4 GHz function:**

For IEEE 802.11b mode (1TX/1RX)

Support diversity function and pre-tested Ant. 1 and Ant. 2 on each single chain, the worst case was Ant. 1 and it was record in this test report.

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

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

**For 5 GHz function:**

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



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

**For Bluetooth function:**

For Bluetooth mode (1TX/1RX)

Only Ant. 3 can be used as transmitting/receiving antenna.

**1.1.3 EUT Information**

Operational Condition	
EUT Power Type	From AC Adapter
EUT Function	<input checked="" type="checkbox"/> Point-to-multipoint <input type="checkbox"/> Point-to-point
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
BT-BR(1Mbps)	0.763	1.175	2.889m	1k
BT-EDR(2Mbps)	0.767	1.152	2.891m	1k
BT-EDR(3Mbps)	0.764	1.169	2.894m	1k

## 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	Tim	26.5°C / 60%	27/Jul/2018
Radiated	03CH03-HY	Jeff	23.5°C / 65%	31/Jul/2018
AC Conduction	CO04-HY	Jeremy	20.5°C / 62%	02/Aug/2018

## 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 (9kHz ~ 30MHz)	3.0 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%





## 2 Test Configuration of EUT

### 2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

### 2.2 Test Channel Mode




Test Software	Dos
---------------	-----

Mode	PowerSetting
BT-BR(1Mbps)	-
2402MHz	10
2441MHz	10
2480MHz	10
BT-EDR(2Mbps)	-
2402MHz	10
2441MHz	10
2480MHz	10
BT-EDR(3Mbps)	-
2402MHz	10
2441MHz	10
2480MHz	10

### 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	Adapter 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	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz

Refer to Sporton Test Report No.: FA871710 for Co-location RF Exposure Evaluation.

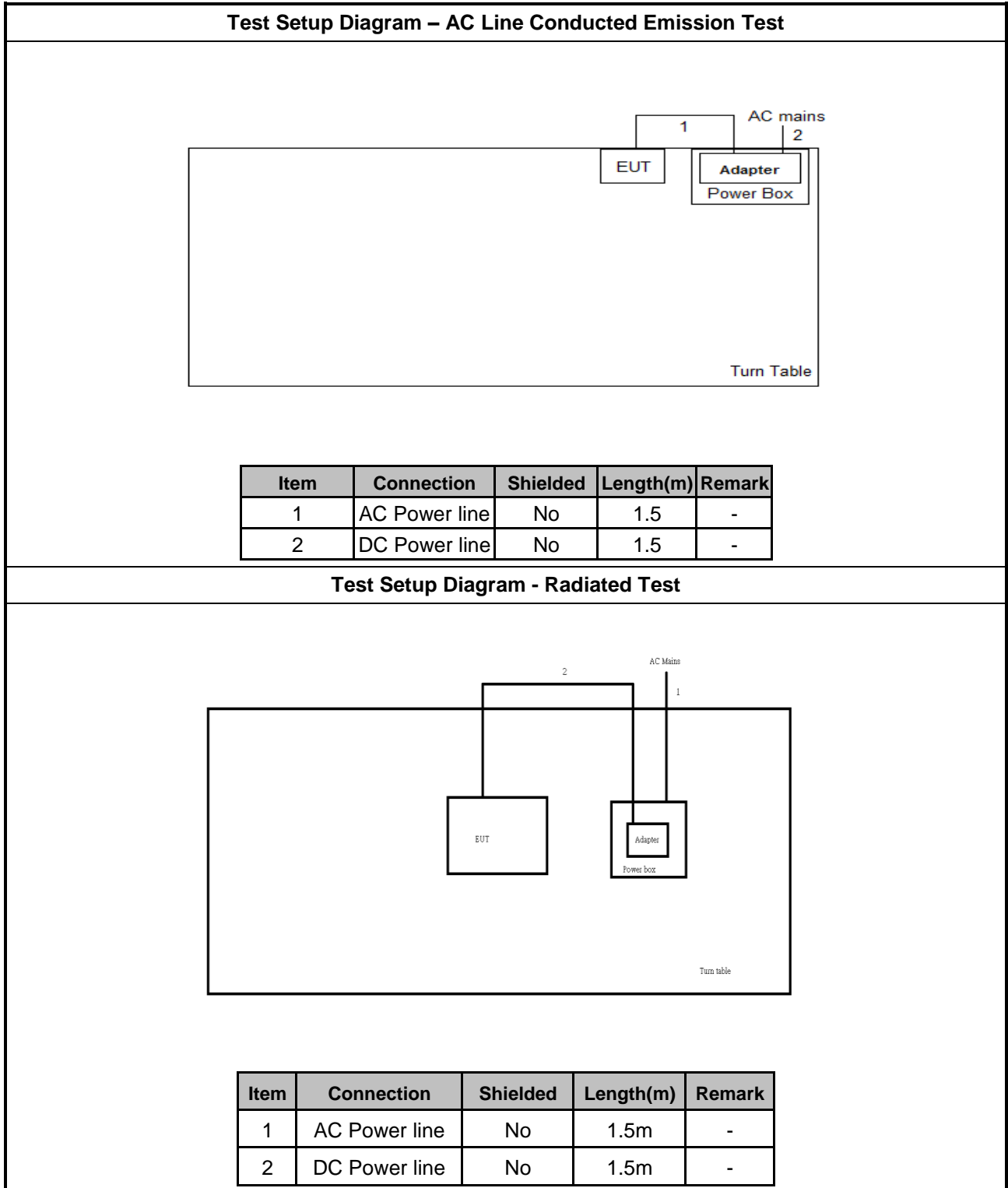
## 2.4 Accessories

Accessories				
AC Adapter	Brand Name	Acbel	Model Name	WAH033
	Power Rating	I/P: <u>100</u> - <u>240</u> Vac, <u>0.6</u> A, O/P: <u>12</u> Vdc, <u>1.5</u> A		
	Power Cord	1.5 meter, Non-Shielded cable, w/o ferrite core		
remote control	Brand Name	-	Model Name	-
HDMI Cable	Power Cord	1.7 meter, Shielded cable, w/o ferrite core		

## 2.5 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	R33002 / DOC
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC

## 2.6 Test Setup Diagram



### 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.

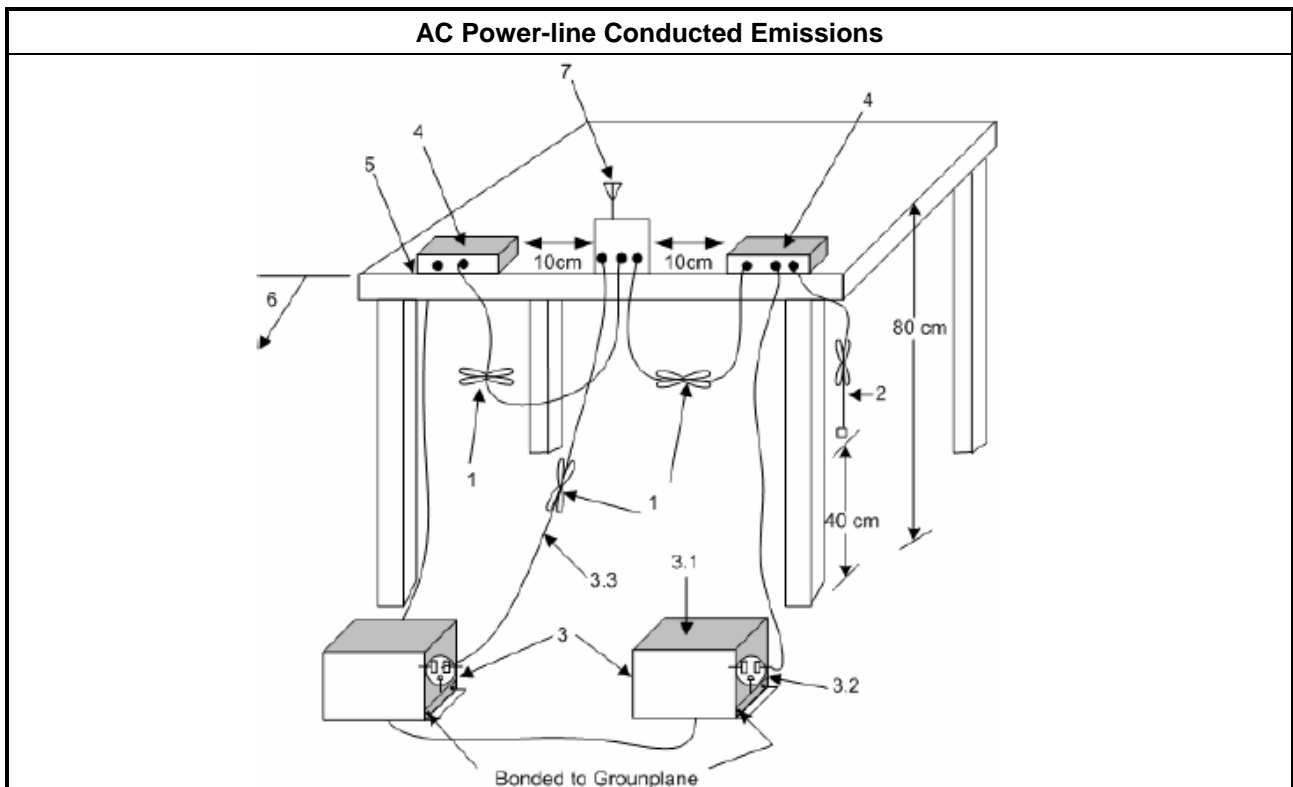
##### 3.1.2 Measuring Instruments

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"> <li>Refer as ANSI C63.10-2013, clause 6.2 foray power-line conducted emissions.</li> </ul>

##### 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	
<ul style="list-style-type: none"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li><math>N \geq 75</math> and <math>ChS \geq MAX</math> (20 dB bandwidth, 25 kHz).</li> </ul>
	<ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math> and <math>ChS \geq MAX</math> (20 dB bandwidth 2/3,25 kHz).</li> </ul>
<b>N:</b> Number of Hopping Frequencies; <b>ChS:</b> Hopping Channel Separation	

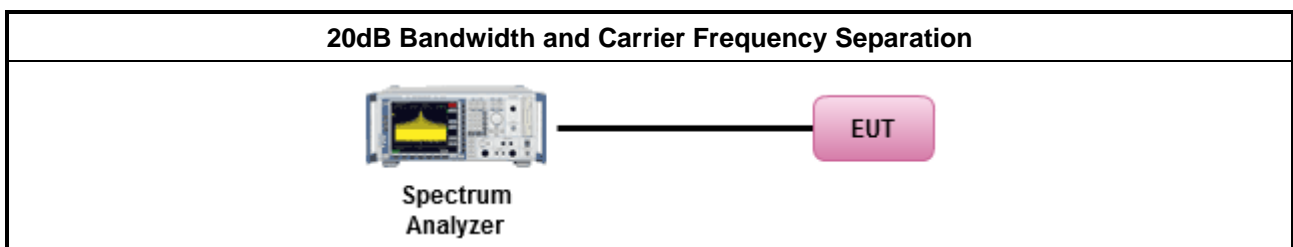
#### 3.2.2 Measuring Instruments

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

#### 3.2.3 Test Procedures

Test Method
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 6.9.2 for 20 dB bandwidth measurement.</li> </ul>
<ul style="list-style-type: none"> <li>Refer as ANSI C63.10-2013, clause 7.8.2 for carrier frequency separation measurement.</li> </ul>

#### 3.2.4 Test Setup



#### 3.2.5 Test Result of 20dB Bandwidth

Refer as Appendix B

#### 3.2.6 Test Result of Carrier Frequency Separation

Refer as Appendix B

### 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"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li><math>N \geq 75</math>; Power 30dBm; EIRP 36dBm</li> </ul>
	<ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math>; Power 21dBm; EIRP 27dBm</li> </ul>
<b>N:</b> Number of Hopping Frequencies	

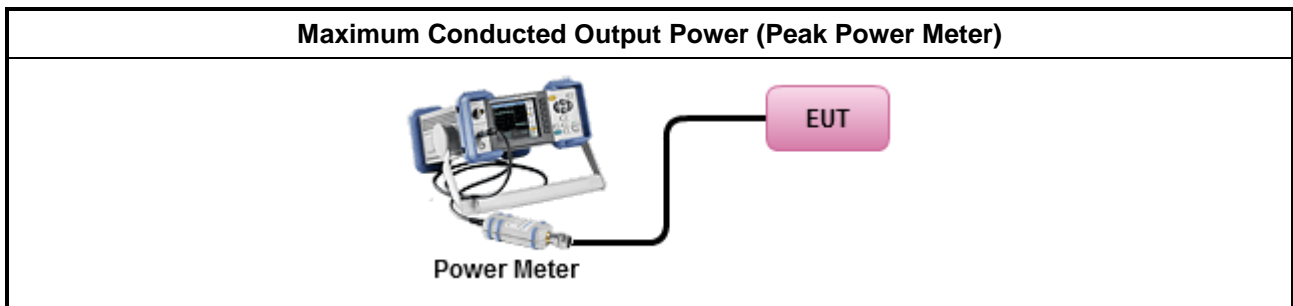
#### 3.3.2 Measuring Instruments

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"> <li>Refer as ANSI C63.10-2013, clause 7.8.5 for output power measurement.</li> </ul>

#### 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"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li><math>N \geq 75</math> and <math>ChS \geq MAX</math> (20 dB bandwidth, 25 kHz).</li> </ul>
	<ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math> and <math>ChS \geq MAX</math> (20 dB bandwidth 2/3, 25 kHz).</li> </ul>
<b>N:</b> Number of Hopping Frequencies; <b>ChS</b> : Hopping Channel Separation	

#### 3.4.2 Hopping Bandedge Limit

Refer clause 3.6.1 and clause 3.7.1

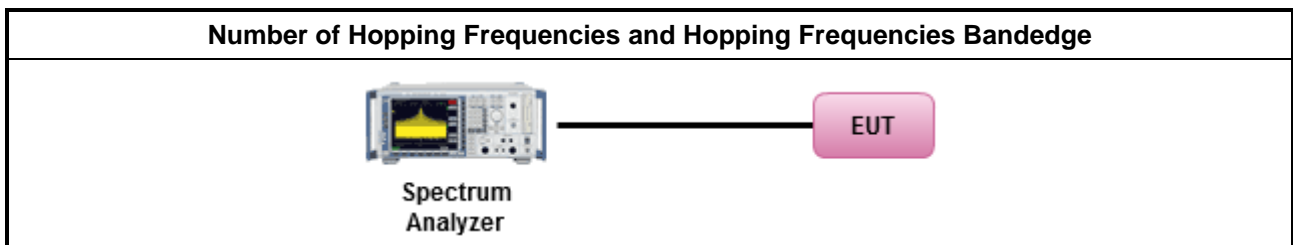
#### 3.4.3 Measuring Instruments

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

#### 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"> <li>2400-2483.5 MHz Band:</li> </ul>	
	<ul style="list-style-type: none"> <li><math>N \geq 75</math>; 0.4s in <math>N \times 0.4</math> period</li> </ul>
	<ul style="list-style-type: none"> <li><math>75 &gt; N \geq 15</math>; 0.4s in <math>N \times 0.4</math> period</li> </ul>
<b>N:</b> Number of Hopping Frequencies	

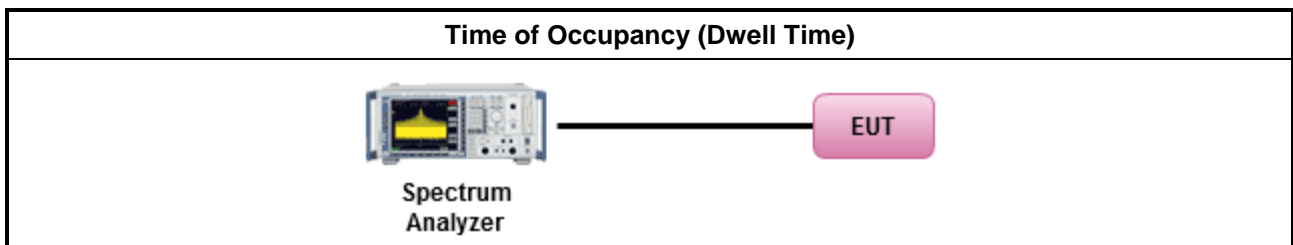
#### 3.5.2 Measuring Instruments

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"> <li>Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.</li> </ul>	
<ul style="list-style-type: none"> <li>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.</li> </ul>	
	<ul style="list-style-type: none"> <li>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 <math>5/1600</math> seconds, or 3.125ms. DH5 Packet permit maximum <math>1600 / 79 / 6 = 3.37</math> hops per second in each channel.</li> </ul>

#### 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.	

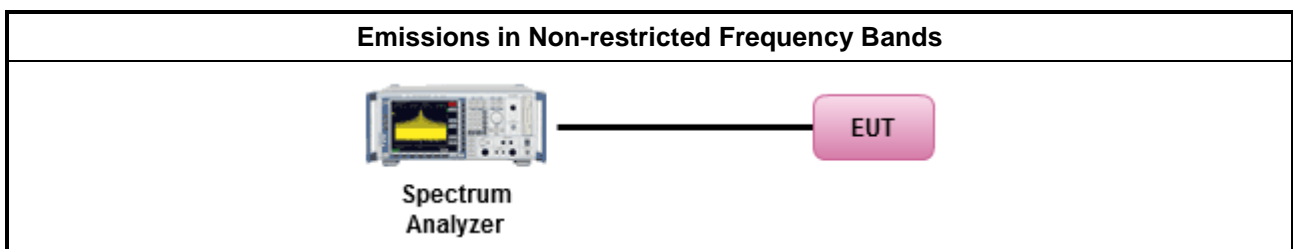
#### 3.6.2 Measuring Instruments

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"> <li>Refer as ANSI C63.10-2013, clause 7.8.8 for unwanted emissions into non-restricted bands.</li> </ul>

#### 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.

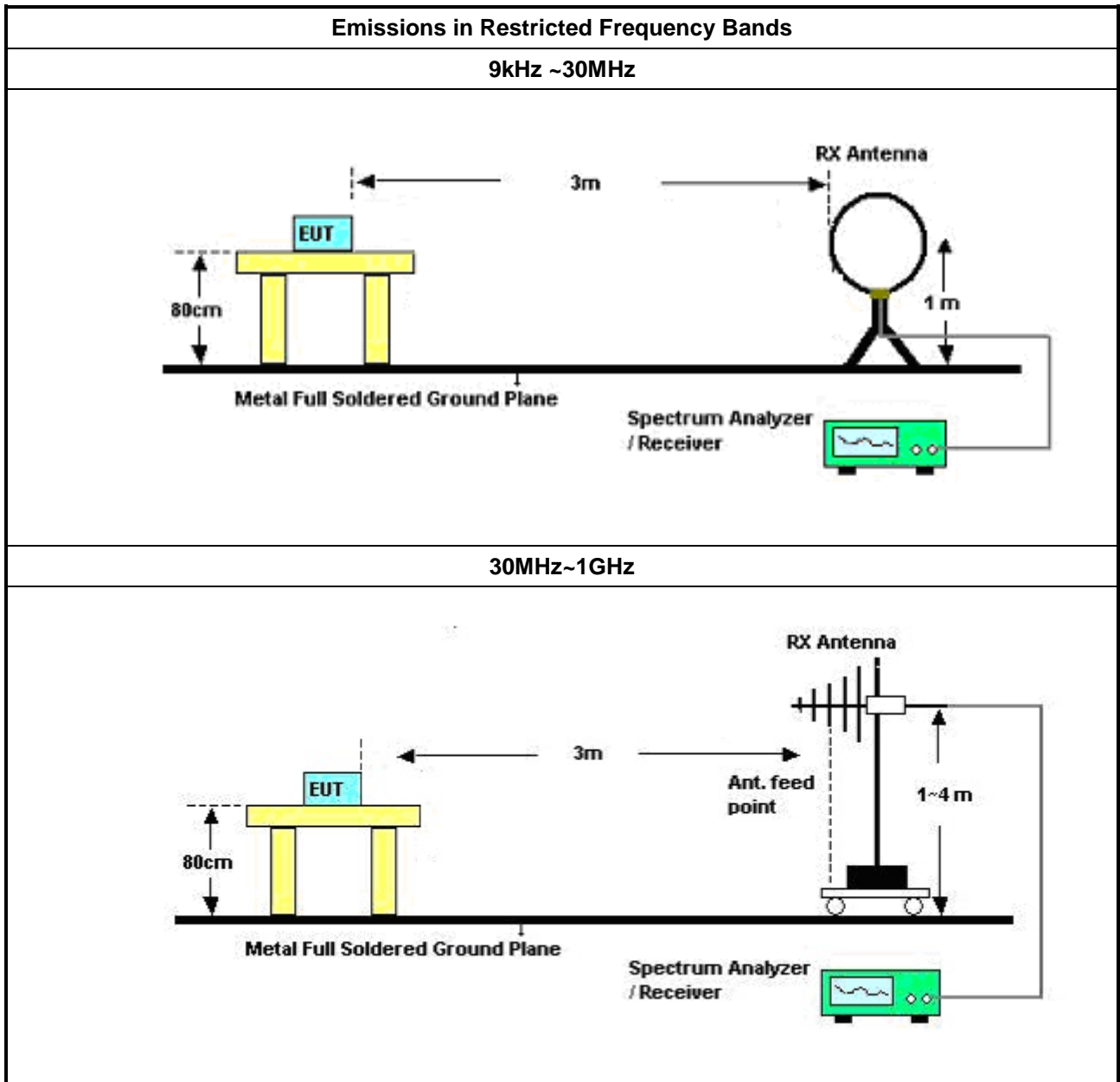
#### 3.7.2 Measuring Instruments

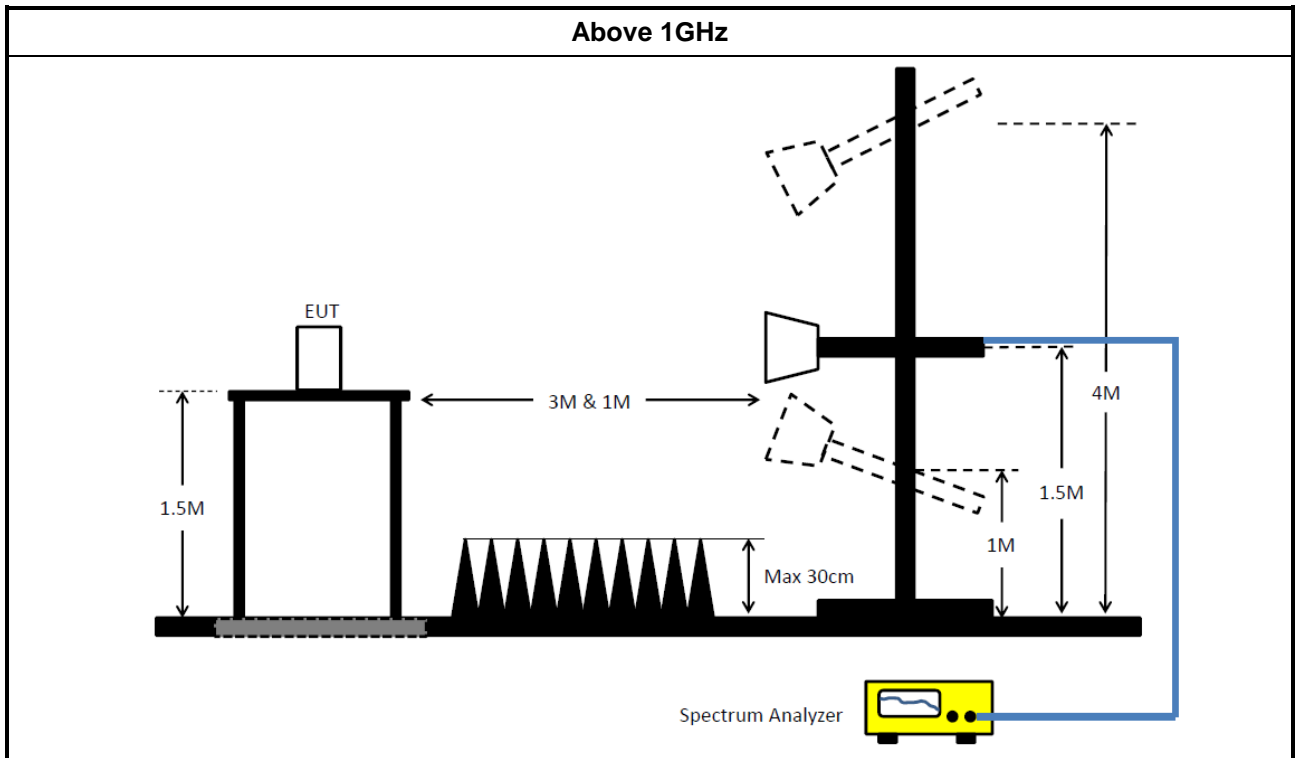
Refer a test equipment and calibration data table in this test report.

#### 3.7.3 Test Procedures

Test Method	
	<ul style="list-style-type: none"> <li>▪ The average emission levels shall be measured in [hopping duty factor].</li> </ul>
	<ul style="list-style-type: none"> <li>▪ 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.</li> </ul>
	<ul style="list-style-type: none"> <li>▪ For the transmitter unwanted emissions shall be measured using following options below:               <ul style="list-style-type: none"> <li>▪ Refer as ANSI C63.10, clause 4.1.4.2.1 QP value.</li> <li>▪ Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak.</li> <li>▪ Refer as ANSI C63.10, clause 4.1.4.2.4 average value of hopping pulsed emissions.</li> </ul> </li> </ul>

### 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	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	0761183202000 1	9kHz ~ 30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2017	11/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 3m	31/Oct/2017	30/Oct/2018
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	1GHz ~ 18GHz 3m	01/Nov/2017	31/Oct/2018
Amplifier	HP	8447D	2944A08033	10kHz ~ 1.3GHz	23/Apr/2018	19/Apr/2019
Microwave System Pre-amplifier	KEYSIGHT	83017A	MY53270196	1GHz ~ 26.5GHz	31/Aug/2017	30/Aug/2018
Signal Analyzer	R&S	FSP40	100305	10Hz ~ 40GHz	04/Jan/2018	03/Jan/2019
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	29/Jan/2018	28/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX 106	CB222	1GHz ~ 40GHz	29/Jan/2018	28/Jan/2019
Bilog Antenna	SCHAFFNER	CBL 6112B	2723	30MHz ~ 1GHz	09/Sep/2017	08/Sep/2018
Receiver	R&S	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170154	18GHz ~ 40GHz	06/Feb/ 2018	05/Feb/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1531	1GHz ~ 18GHz	18/Apr/ 2018	17/Apr/2019
Amplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2017	23/Aug/2018
Loop Antenna	TESEQ	HLA 6120	31244	9kHz ~ 30MHz	28/Mar/2018	27/Mar/2019

**Instrument for Conducted Test**

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	05/Feb/2018	04/Feb/2019
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	MY37332/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	MY37333/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	26/Jul/2018	25/Jul/2019





AC Power-line Conducted Emissions Result																																																																																																																																	
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<div style="text-align: right;">Date: 2018-08-02</div> <p>The graph displays the AC power-line conducted emissions. The y-axis represents the level in dBuV, ranging from 0 to 80. The x-axis represents the frequency in MHz, ranging from 0.1502 to 30. Two red lines indicate the limits: NCC/IC/FCC-B (upper) and NCC/IC/FCC-B-AV (lower). A blue line shows the measured emission levels, with several peaks marked by vertical lines and numbered 1 through 12. The highest peak is at 0.22 MHz, labeled '3 MAX'.</p>																																																																																																																																	
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**Summary**

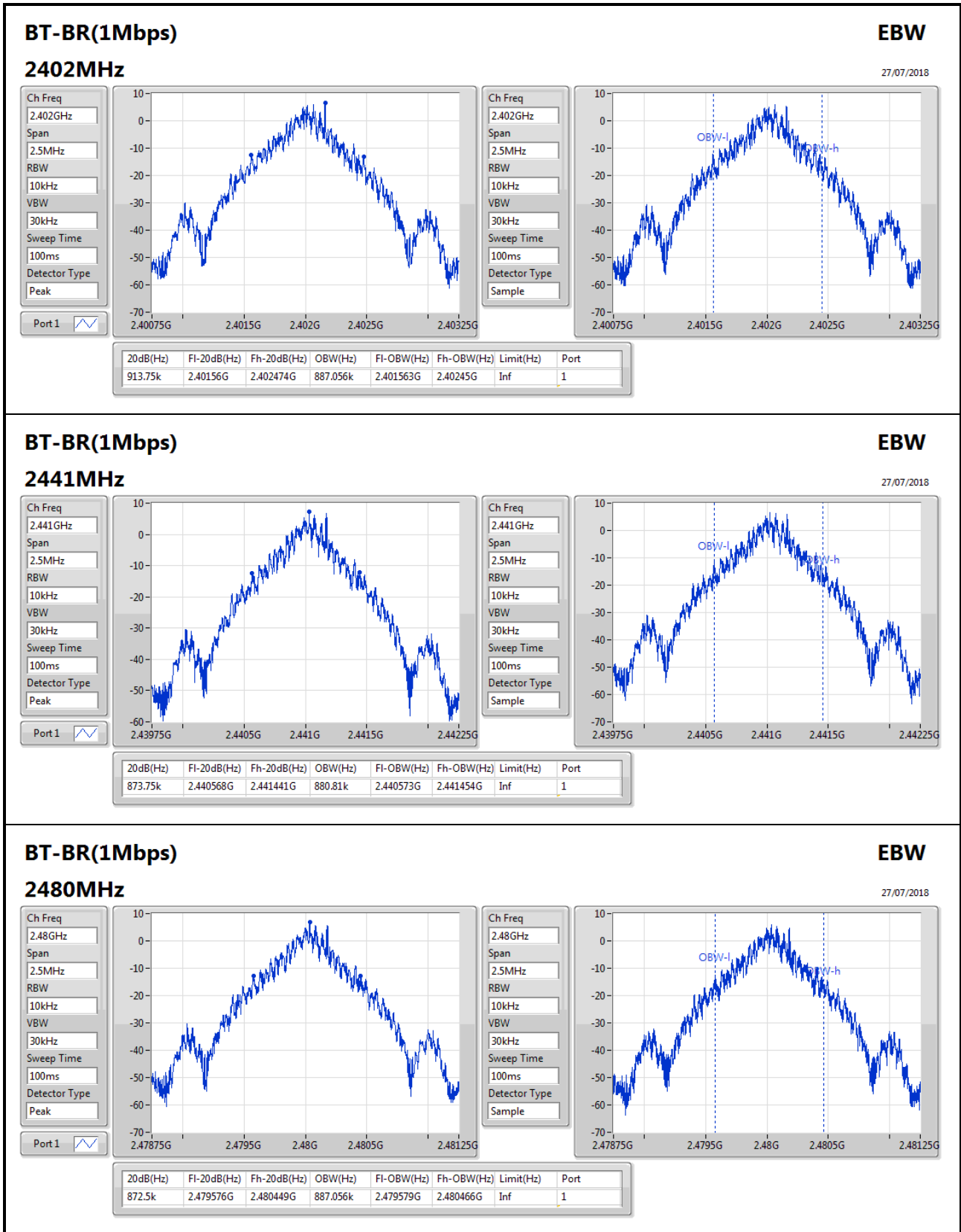
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	913.75k	887.056k	887KF1D	872.5k	880.81k
BT-EDR(2Mbps)	1.331M	1.228M	1M23G1D	1.313M	1.222M
BT-EDR(3Mbps)	1.283M	1.229M	1M23G1D	1.273M	1.223M

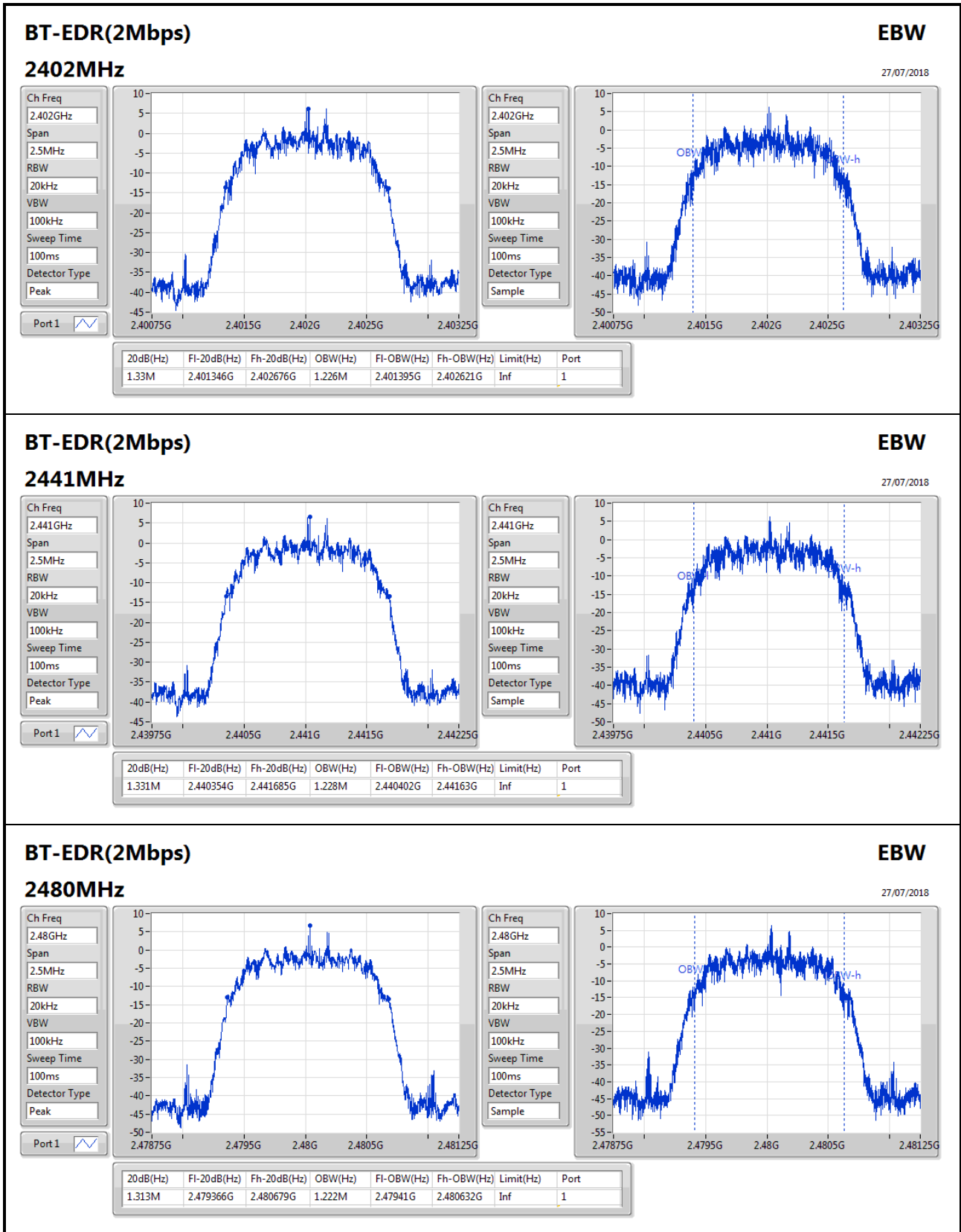
**Max-N dB** = Maximum 20dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;  
**Min-N dB** = Minimum 20dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

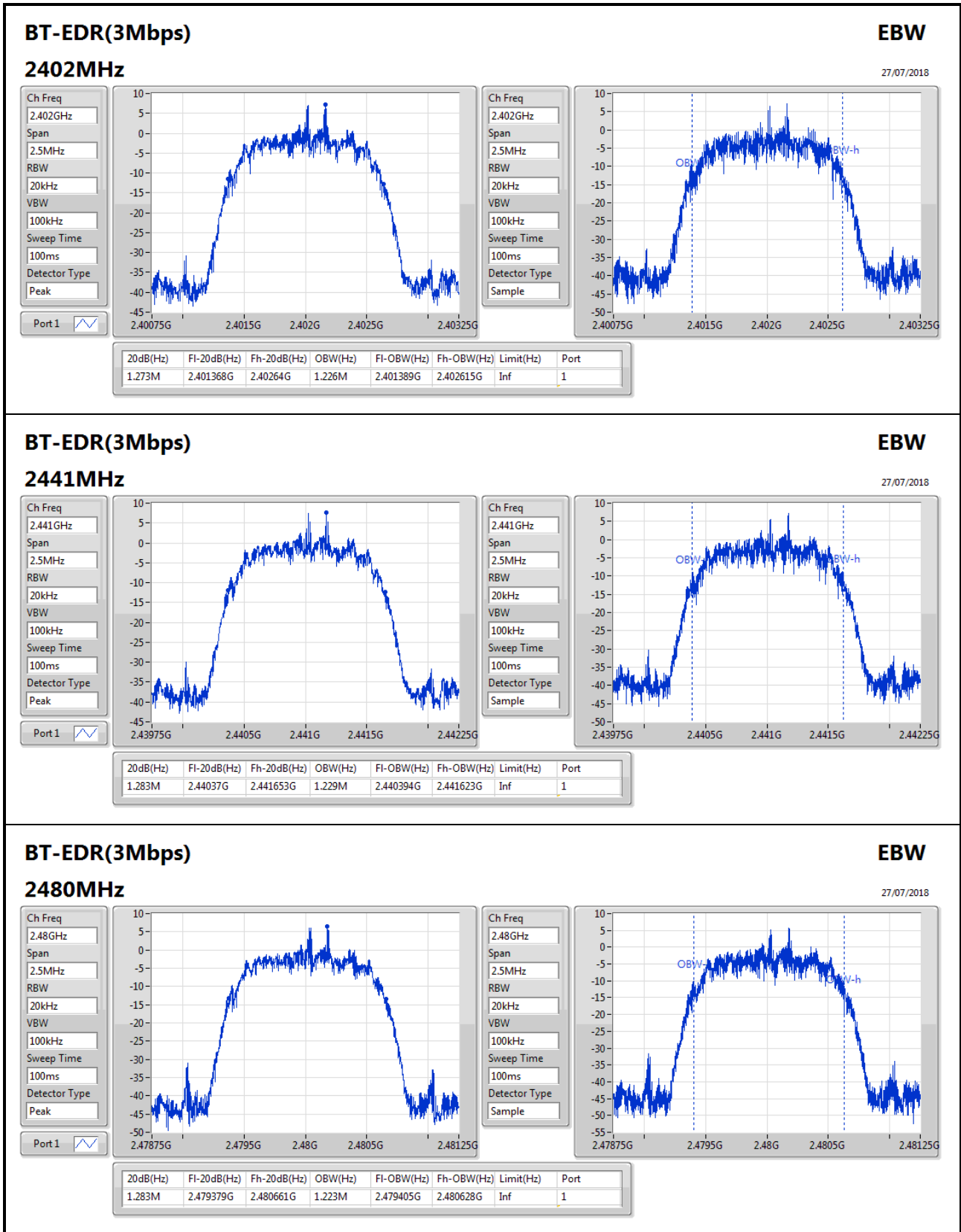
**Result**

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	913.75k	887.056k
2441MHz_TnomVnom	Pass	Inf	873.75k	880.81k
2480MHz_TnomVnom	Pass	Inf	872.5k	887.056k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.33M	1.226M
2441MHz_TnomVnom	Pass	Inf	1.331M	1.228M
2480MHz_TnomVnom	Pass	Inf	1.313M	1.222M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.273M	1.226M
2441MHz_TnomVnom	Pass	Inf	1.283M	1.229M
2480MHz_TnomVnom	Pass	Inf	1.283M	1.223M

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







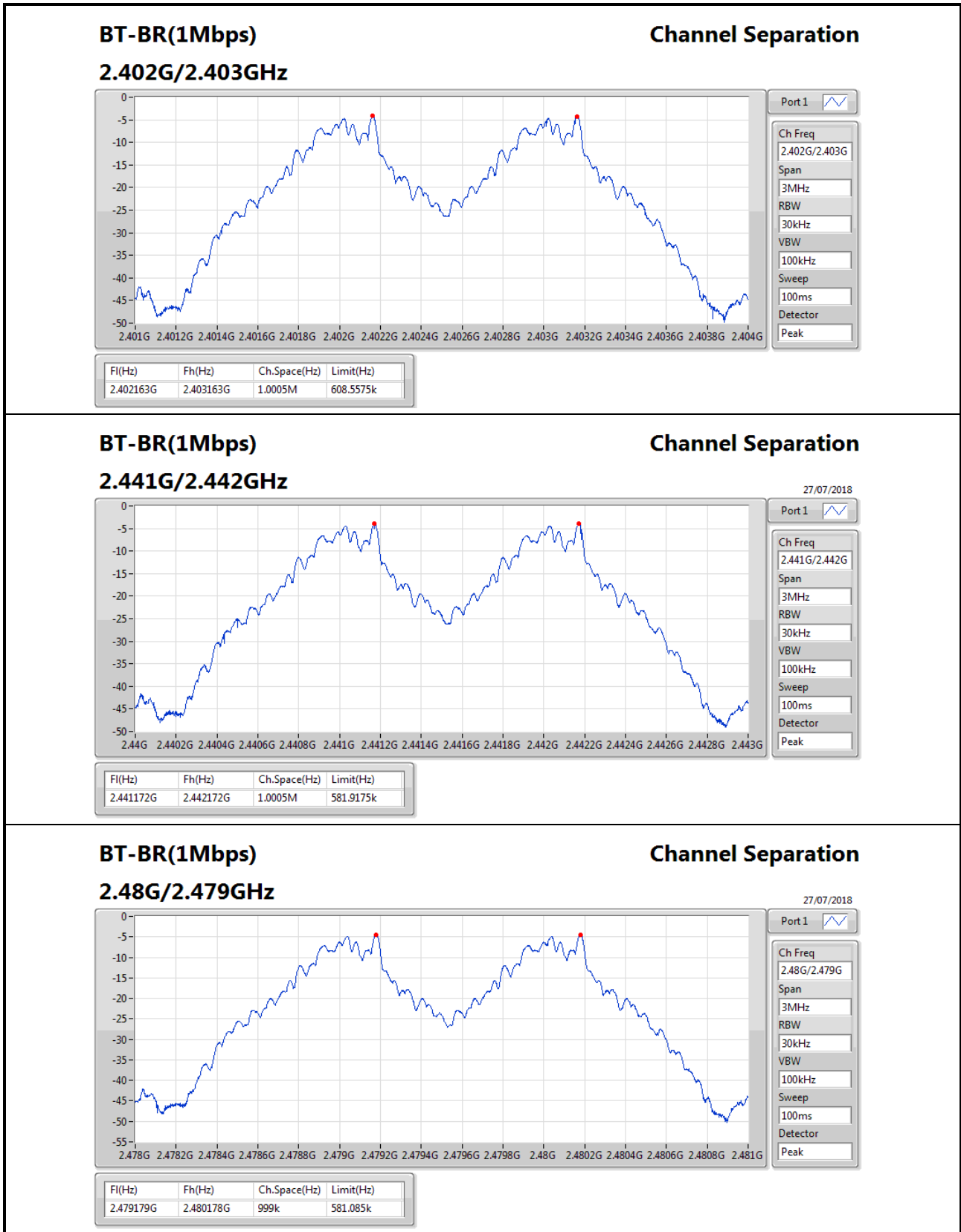


**Summary**

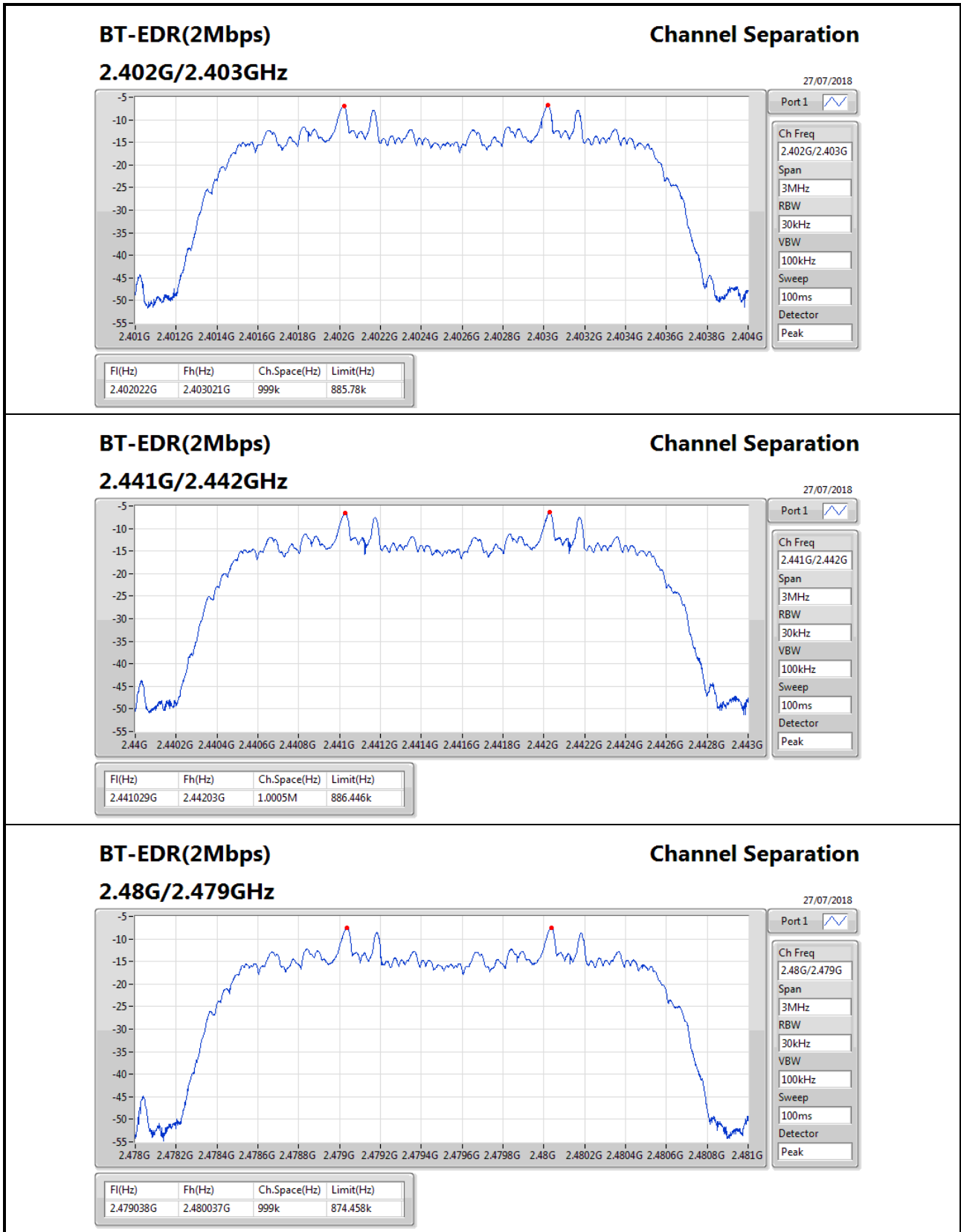
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.0005M	999k
BT-EDR(3Mbps)	1.0005M	999k

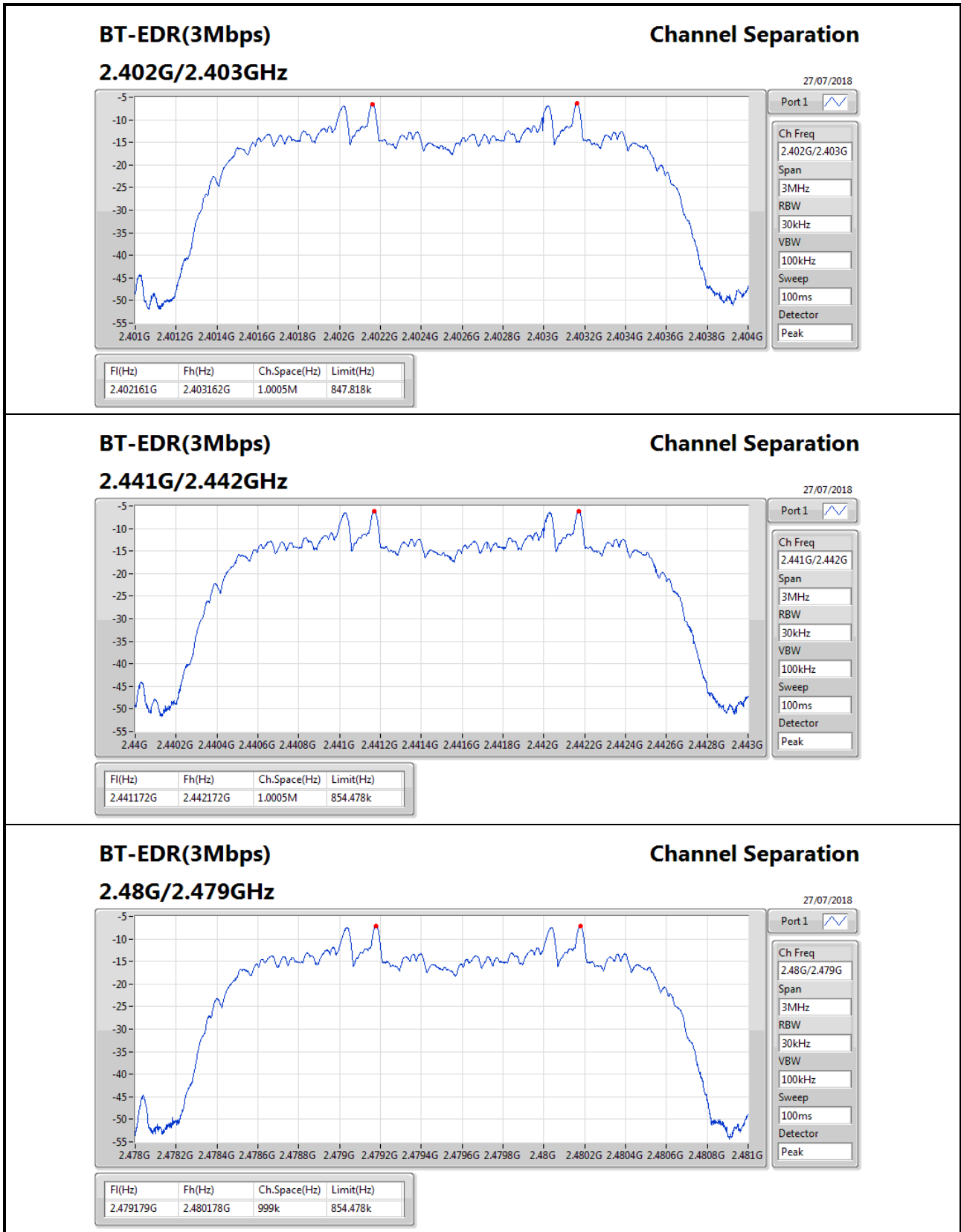
**Result**

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402163G	2.403163G	1.0005M	608.5575k
2441MHz_TnomVnom	Pass	2.441172G	2.442172G	1.0005M	581.9175k
2480MHz_TnomVnom	Pass	2.479179G	2.480178G	999k	581.085k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402022G	2.403021G	999k	885.78k
2441MHz_TnomVnom	Pass	2.441029G	2.44203G	1.0005M	886.446k
2480MHz_TnomVnom	Pass	2.479038G	2.480037G	999k	874.458k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402161G	2.403162G	1.0005M	847.818k
2441MHz_TnomVnom	Pass	2.441172G	2.442172G	1.0005M	854.478k
2480MHz_TnomVnom	Pass	2.479179G	2.480178G	999k	854.478k











**Summary**

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	11.83	0.01524
BT-EDR(2Mbps)	11.87	0.01538
BT-EDR(3Mbps)	12.05	0.01603

**Result**

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.92	11.58	21.00
2441MHz_TnomVnom	Pass	1.92	11.83	21.00
2480MHz_TnomVnom	Pass	1.92	11.14	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.92	11.61	21.00
2441MHz_TnomVnom	Pass	1.92	11.87	21.00
2480MHz_TnomVnom	Pass	1.92	10.96	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.92	11.78	21.00
2441MHz_TnomVnom	Pass	1.92	12.05	21.00
2480MHz_TnomVnom	Pass	1.92	11.17	21.00



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	11.54	0.01426
BT-EDR(2Mbps)	9.40	0.00871
BT-EDR(3Mbps)	9.49	0.00889

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.92	11.37	21.00
2441MHz_TnomVnom	Pass	1.92	11.54	21.00
2480MHz_TnomVnom	Pass	1.92	10.82	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.92	9.15	21.00
2441MHz_TnomVnom	Pass	1.92	9.40	21.00
2480MHz_TnomVnom	Pass	1.92	8.33	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	1.92	9.11	21.00
2441MHz_TnomVnom	Pass	1.92	9.49	21.00
2480MHz_TnomVnom	Pass	1.92	8.35	21.00

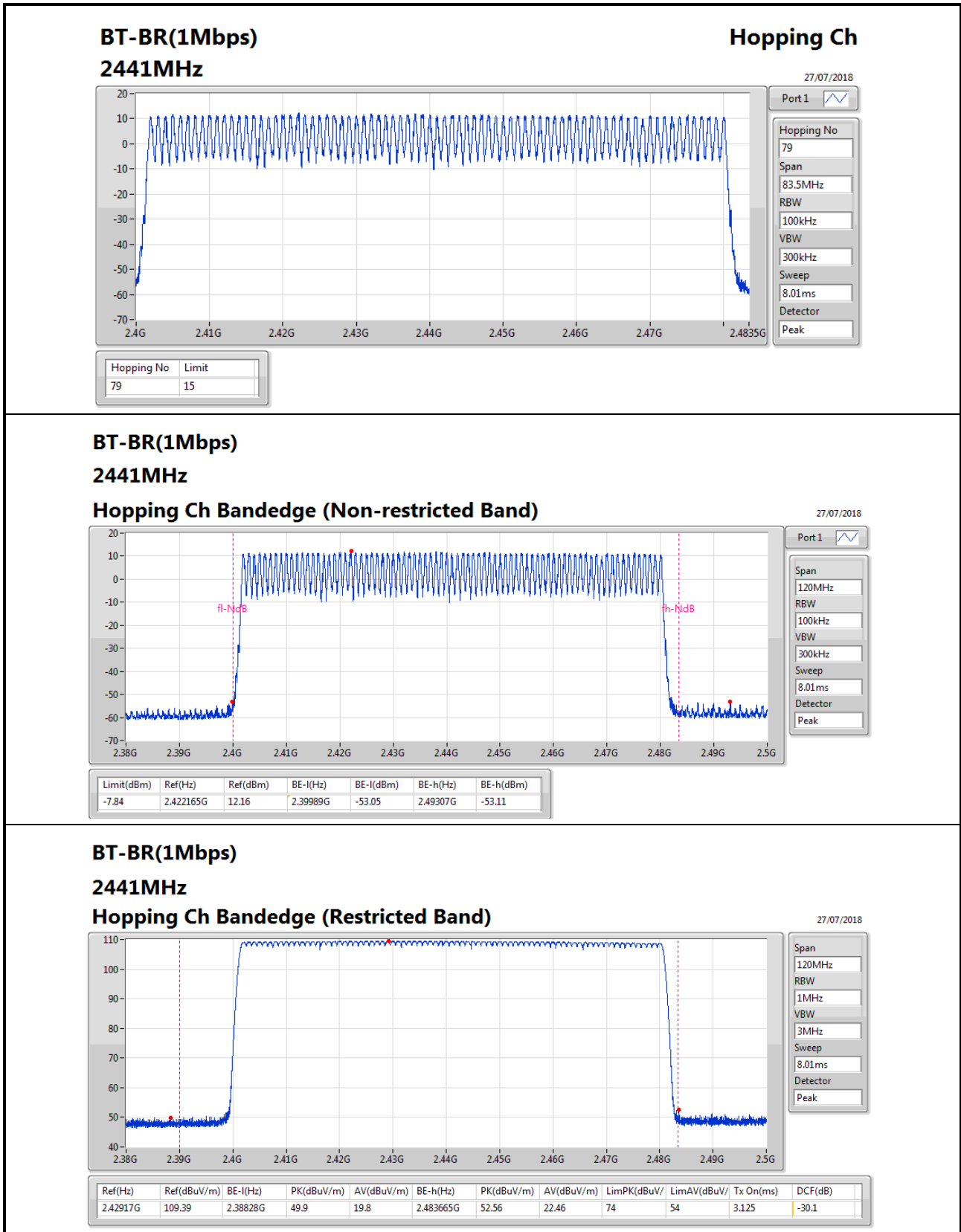


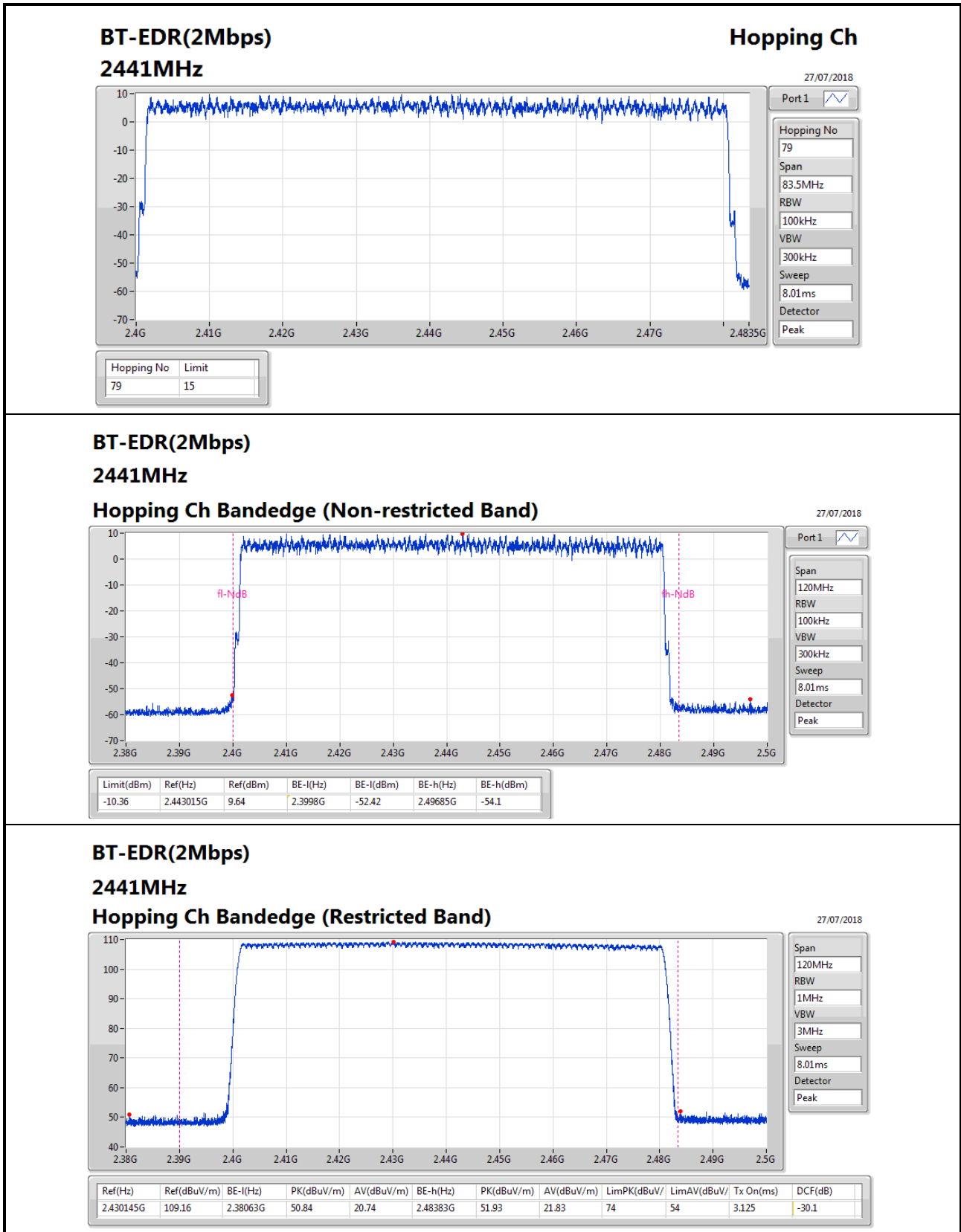
Summary

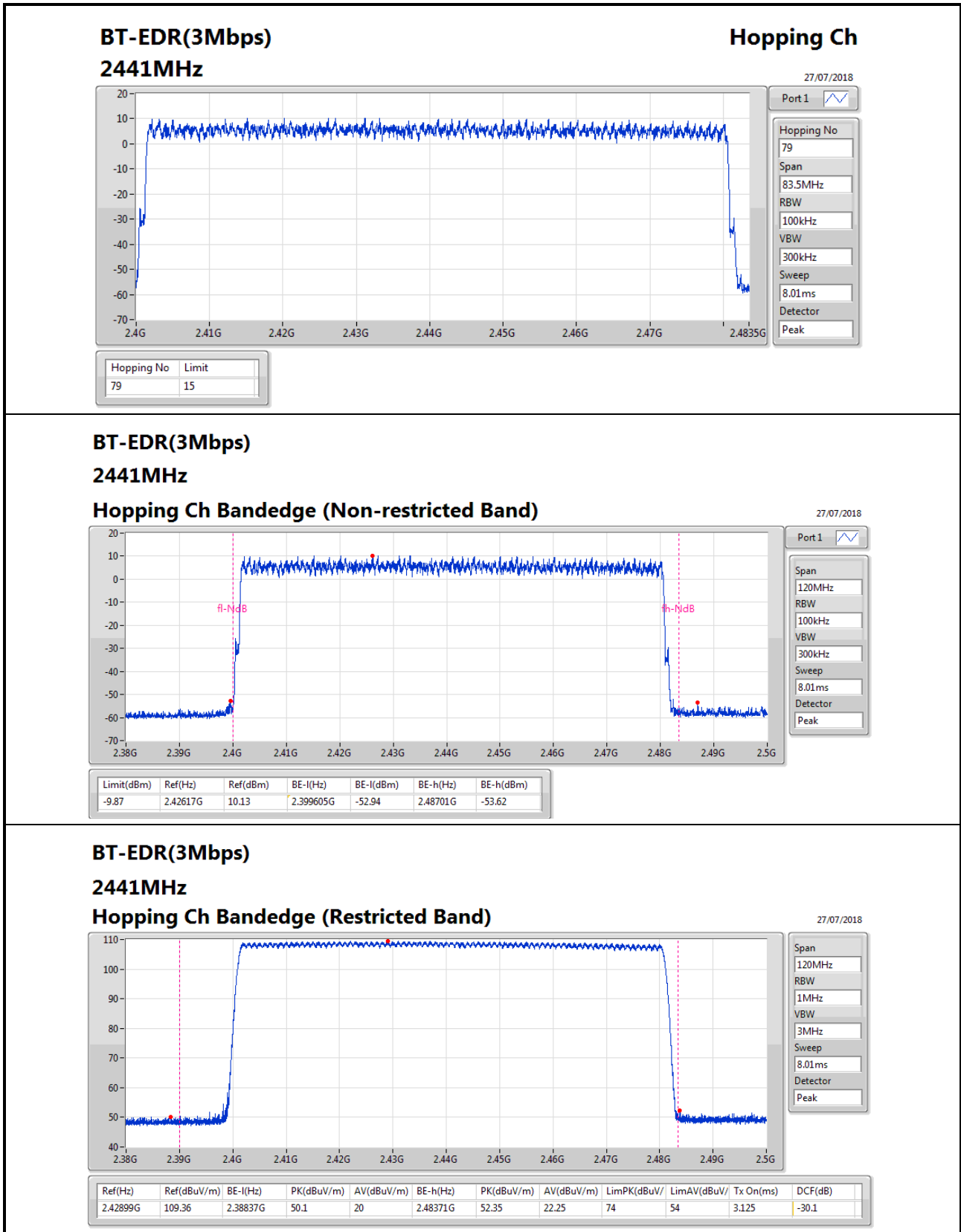
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

Mode	Result	Hopping No	Limit
BT-BR(1Mbps)	-	-	-
2441MHz_TnomVnom	Pass	79	15
BT-EDR(2Mbps)	-	-	-
2441MHz_TnomVnom	Pass	79	15
BT-EDR(3Mbps)	-	-	-
2441MHz_TnomVnom	Pass	79	15









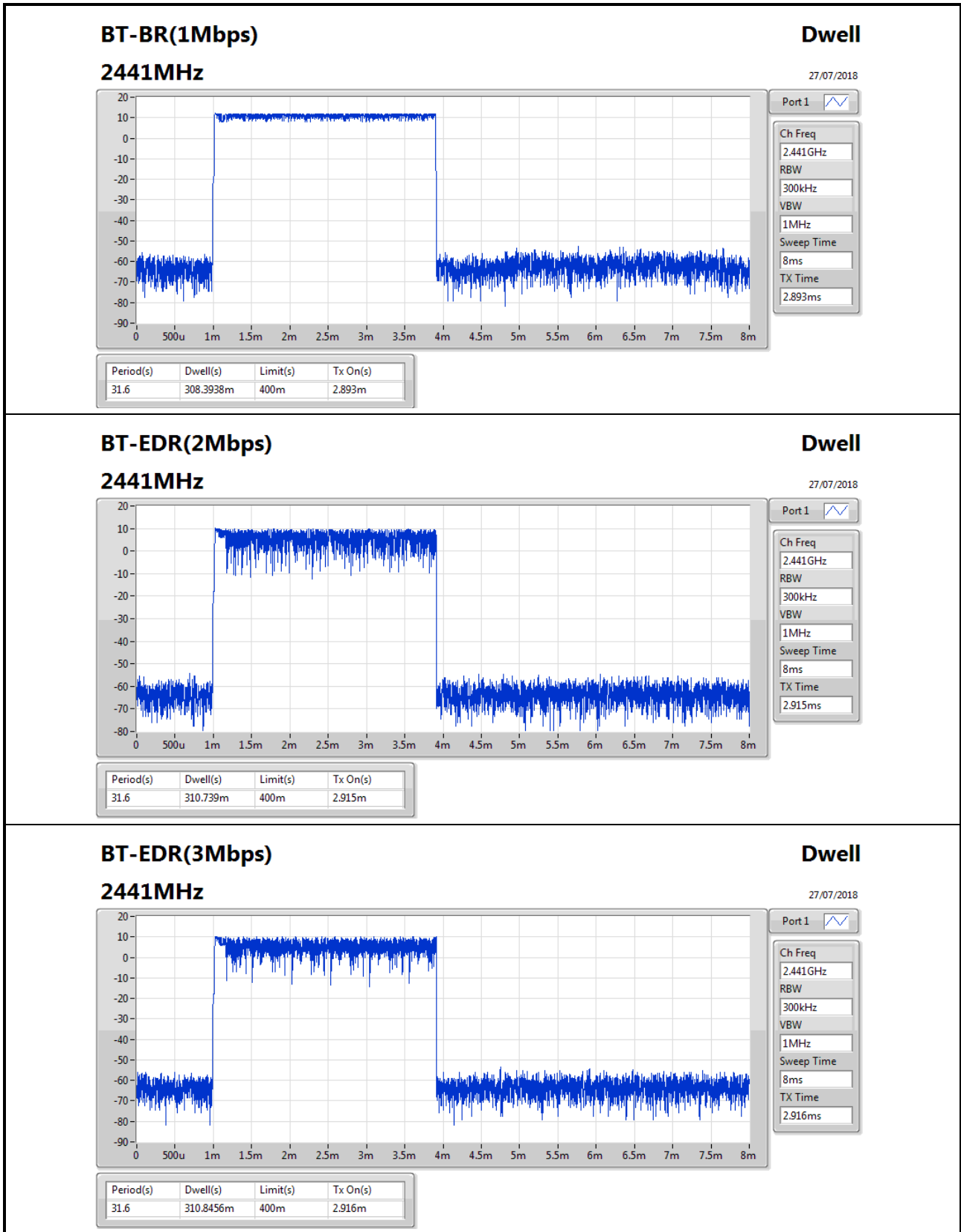


**Summary**

Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.3938m
BT-EDR(2Mbps)	310.739m
BT-EDR(3Mbps)	310.8456m

**Result**

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.3938m	400m	2.893m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	310.739m	400m	2.915m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	310.8456m	400m	2.916m



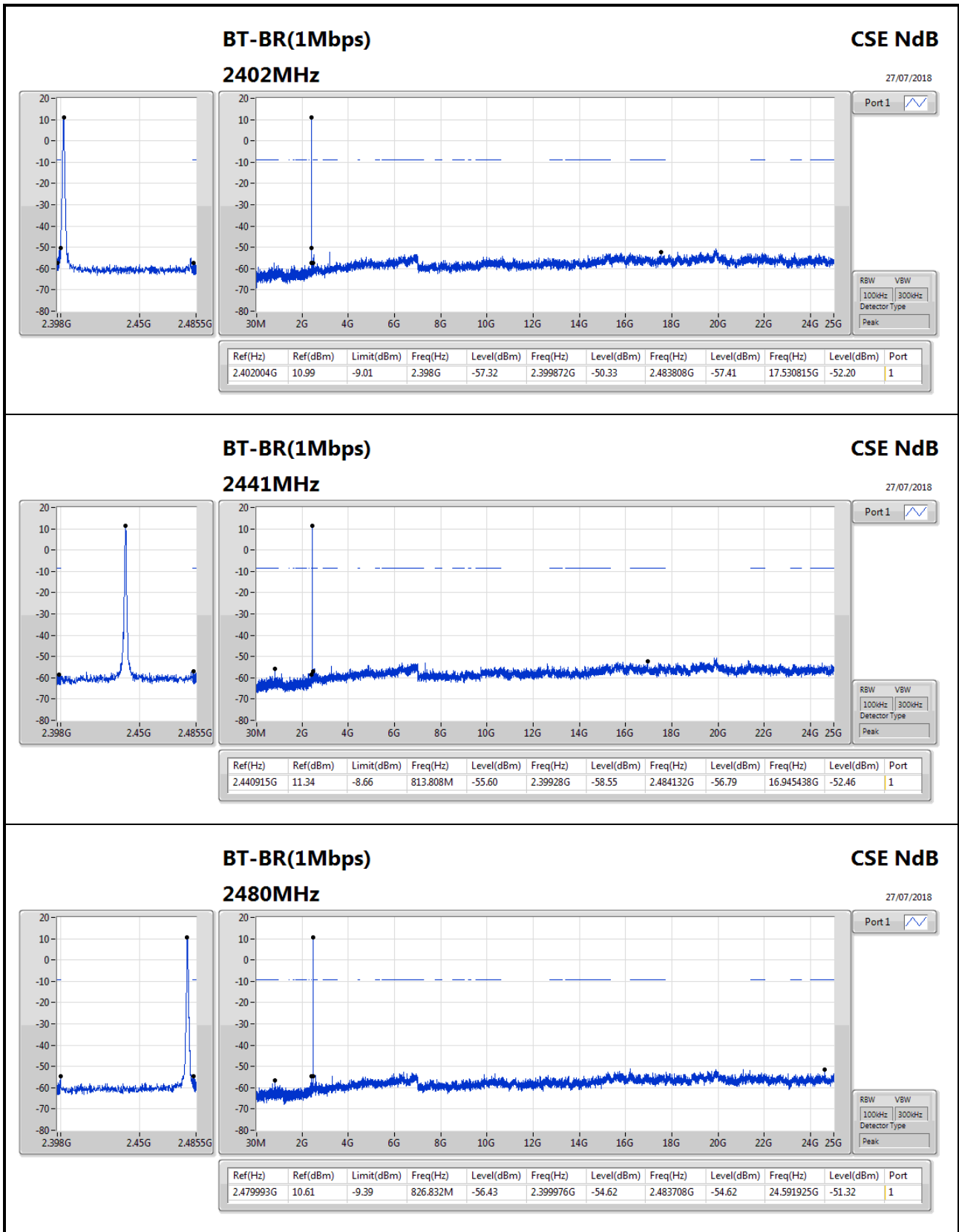


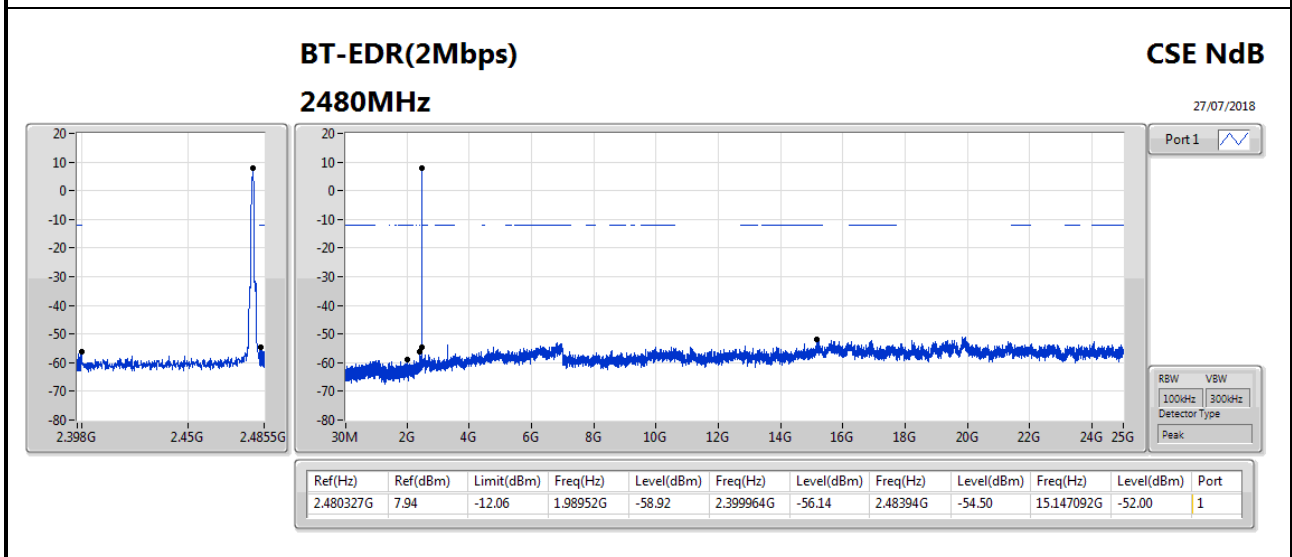
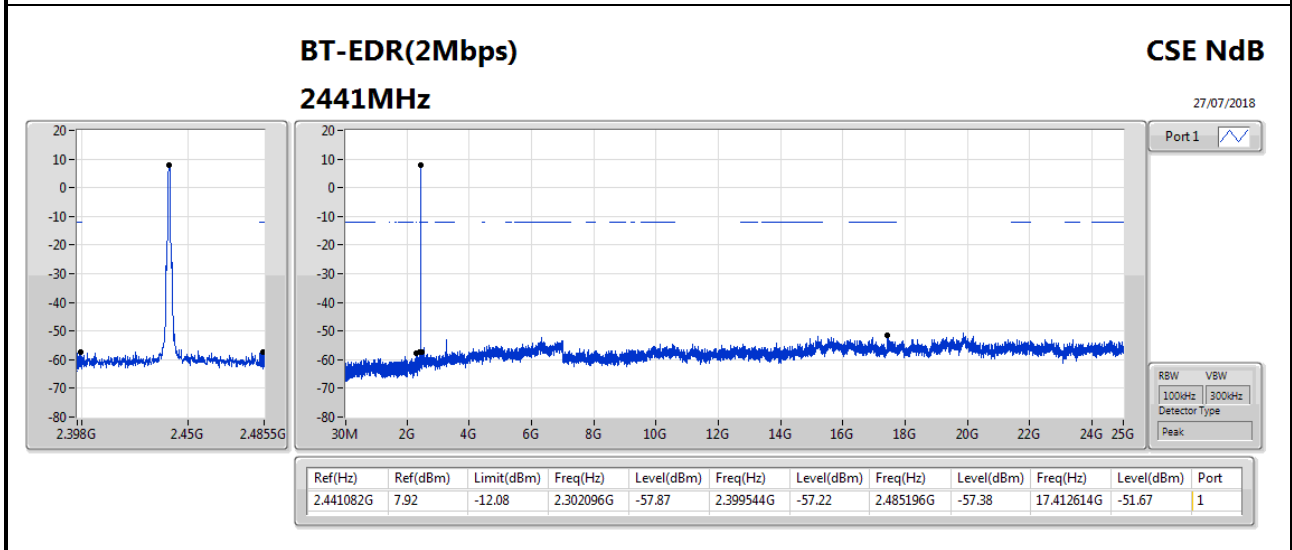
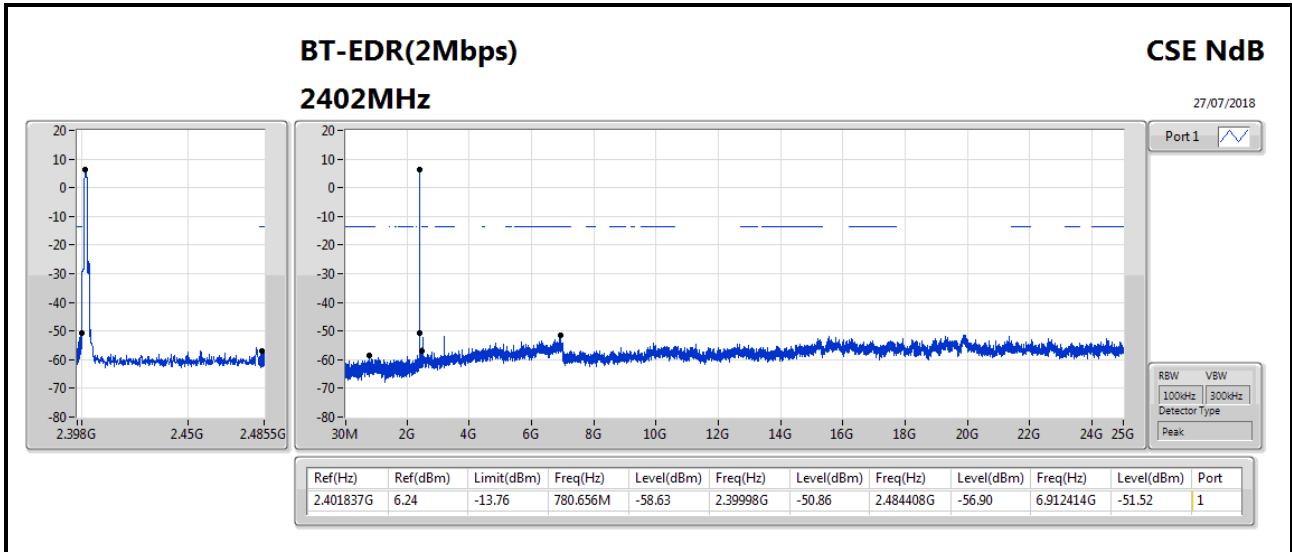
Summary

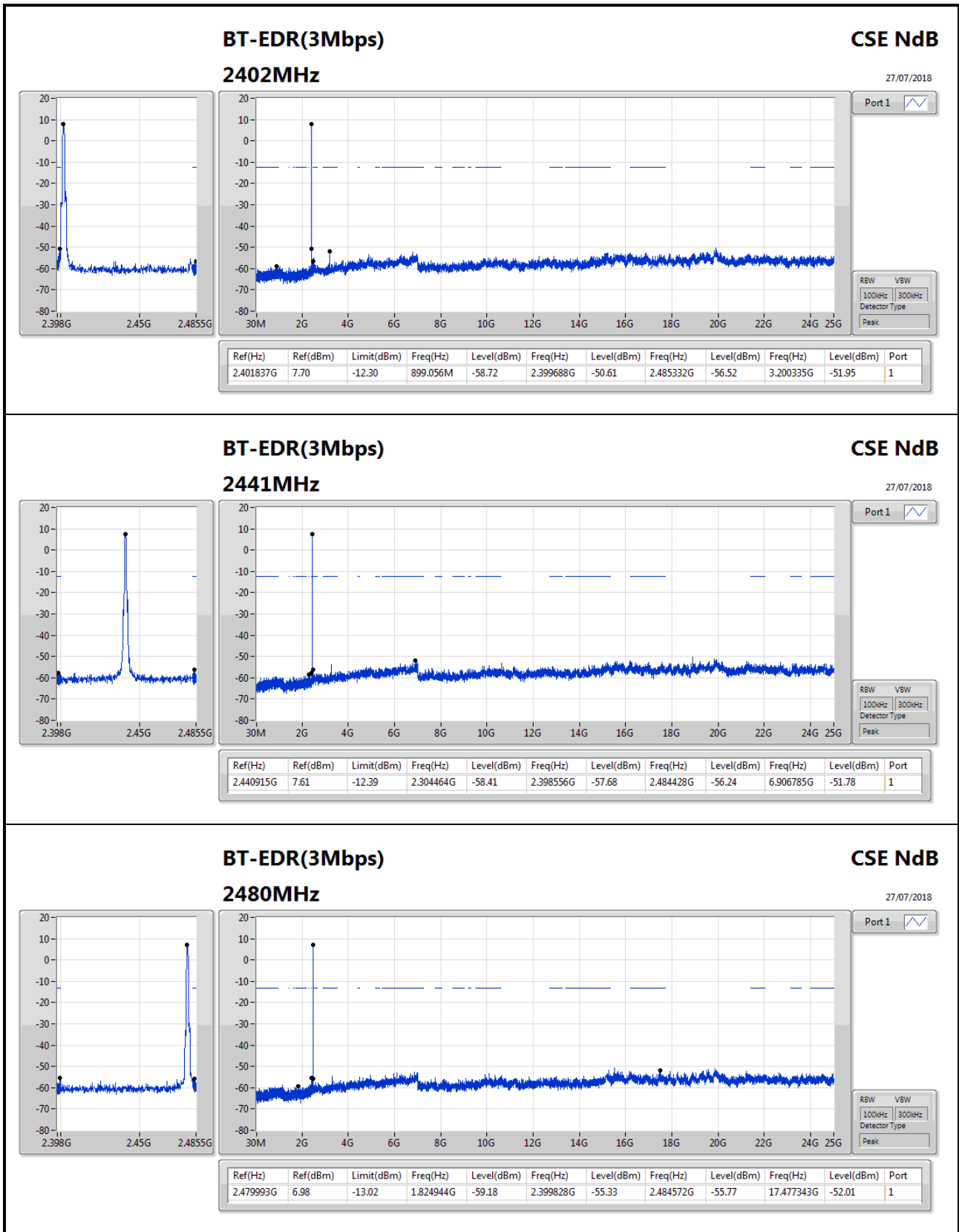
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.402004G	10.99	-9.01	2.398G	-57.32	2.399872G	-50.33	2.483808G	-57.41	17.530815G	-52.20	1
BT-EDR(2Mbps)	Pass	2.401837G	6.24	-13.76	780.656M	-58.63	2.39998G	-50.86	2.484408G	-56.90	6.912414G	-51.52	1
BT-EDR(3Mbps)	Pass	2.401837G	7.70	-12.30	899.056M	-58.72	2.399688G	-50.61	2.485332G	-56.52	3.200335G	-51.95	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
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402004G	10.99	-9.01	2.398G	-57.32	2.399872G	-50.33	2.483808G	-57.41	17.530815G	-52.20	1
2441MHz_TnomVnom	Pass	2.440915G	11.34	-8.66	813.808M	-55.60	2.39928G	-58.55	2.484132G	-56.79	16.945438G	-52.46	1
2480MHz_TnomVnom	Pass	2.479993G	10.61	-9.39	826.832M	-56.43	2.399976G	-54.62	2.483708G	-54.62	24.591925G	-51.32	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.401837G	6.24	-13.76	780.656M	-58.63	2.39998G	-50.86	2.484408G	-56.90	6.912414G	-51.52	1
2441MHz_TnomVnom	Pass	2.441082G	7.92	-12.08	2.302096G	-57.87	2.399544G	-57.22	2.485196G	-57.38	17.412614G	-51.67	1
2480MHz_TnomVnom	Pass	2.480327G	7.94	-12.06	1.98952G	-58.92	2.399964G	-56.14	2.48394G	-54.50	15.147092G	-52.00	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.401837G	7.70	-12.30	899.056M	-58.72	2.399688G	-50.61	2.485332G	-56.52	3.200335G	-51.95	1
2441MHz_TnomVnom	Pass	2.440915G	7.61	-12.39	2.304464G	-58.41	2.398556G	-57.68	2.484428G	-56.24	6.906785G	-51.78	1
2480MHz_TnomVnom	Pass	2.479993G	6.98	-13.02	1.824944G	-59.18	2.399828G	-55.33	2.484572G	-55.77	17.477343G	-52.01	1









Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	37.76M	30.61	40.00	-9.39	-6.81	3	Vertical	360	1.00	-



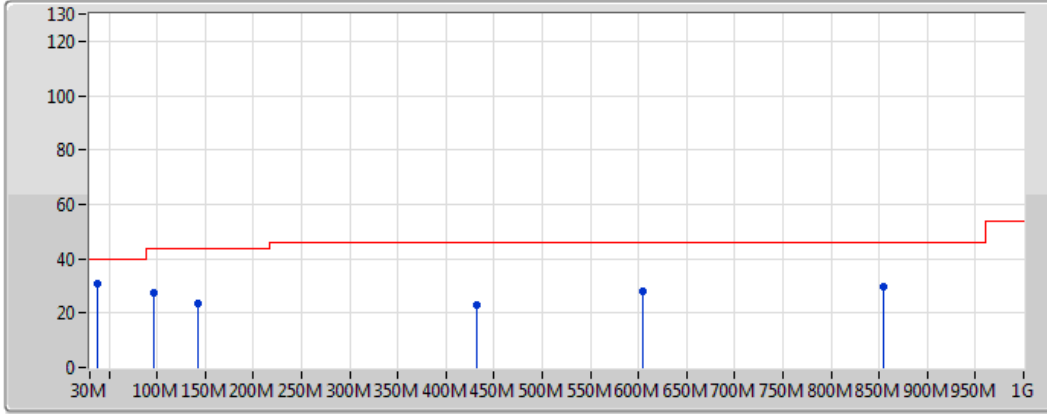
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2441MHz	Pass	PK	37.76M	30.61	40.00	-9.39	-6.81	3	Vertical	360	1.00	-
2441MHz	Pass	PK	95.96M	27.22	43.50	-16.28	-10.09	3	Vertical	360	1.00	-
2441MHz	Pass	PK	142.52M	23.76	43.50	-19.74	-8.96	3	Vertical	360	1.00	-
2441MHz	Pass	PK	431.58M	22.85	46.00	-23.15	-2.75	3	Vertical	360	1.00	-
2441MHz	Pass	PK	604.24M	27.93	46.00	-18.07	-0.44	3	Vertical	360	1.00	-
2441MHz	Pass	PK	854.5M	29.66	46.00	-16.34	2.43	3	Vertical	360	1.00	-
2441MHz	Pass	PK	95.96M	24.23	43.50	-19.27	-10.09	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	159.98M	19.75	43.50	-23.75	-9.97	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	295.78M	20.38	46.00	-25.62	-5.93	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	596.48M	27.58	46.00	-18.42	-0.56	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	813.76M	33.26	46.00	-12.74	2.04	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	899.12M	35.68	46.00	-10.32	2.86	3	Horizontal	0	1.00	-



**BT-BR(1Mbps)**  
**2441MHz\_Adapter**

31/07/2018



Legend for the spectrum plot:

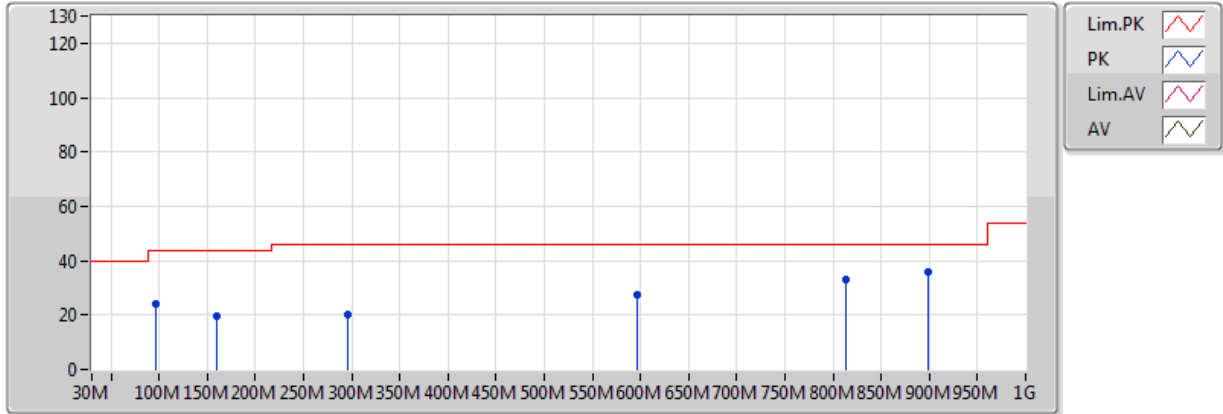
- Lim.PK: Red stepped line
- PK: Blue vertical spike
- Lim.AV: Pink stepped line
- AV: Black stepped line

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	37.76M	30.61	40.00	-9.39	-6.81	3	Vertical	360	1.00	-
PK	95.96M	27.22	43.50	-16.28	-10.09	3	Vertical	360	1.00	-
PK	142.52M	23.76	43.50	-19.74	-8.96	3	Vertical	360	1.00	-
PK	431.58M	22.85	46.00	-23.15	-2.75	3	Vertical	360	1.00	-
PK	604.24M	27.93	46.00	-18.07	-0.44	3	Vertical	360	1.00	-
PK	854.5M	29.66	46.00	-16.34	2.43	3	Vertical	360	1.00	-

### BT-BR(1Mbps)

### 2441MHz\_Adapter

31/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	95.96M	24.23	43.50	-19.27	-10.09	3	Horizontal	0	1.00	-
PK	159.98M	19.75	43.50	-23.75	-9.97	3	Horizontal	0	1.00	-
PK	295.78M	20.38	46.00	-25.62	-5.93	3	Horizontal	0	1.00	-
PK	596.48M	27.58	46.00	-18.42	-0.56	3	Horizontal	0	1.00	-
PK	813.76M	33.26	46.00	-12.74	2.04	3	Horizontal	0	1.00	-
PK	899.12M	35.68	46.00	-10.32	2.86	3	Horizontal	0	1.00	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	AV	2.483502G	51.97	54.00	-2.03	30.69	3	Horizontal	326	1.24	-
BT-EDR(2Mbps)	Pass	AV	2.483502G	50.66	54.00	-3.34	30.69	3	Horizontal	327	1.26	-
BT-EDR(3Mbps)	Pass	AV	2.483502G	50.56	54.00	-3.44	30.69	3	Horizontal	325	1.25	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.389998G	43.25	54.00	-10.75	30.38	3	Vertical	284	1.46	-
2402MHz	Pass	AV	2.402G	82.82	Inf	-Inf	30.41	3	Vertical	284	1.46	-
2402MHz	Pass	PK	2.3866G	55.11	74.00	-18.89	30.37	3	Vertical	284	1.46	-
2402MHz	Pass	PK	2.4022G	95.04	Inf	-Inf	30.42	3	Vertical	284	1.46	-
2402MHz	Pass	AV	2.389998G	43.32	54.00	-10.68	30.38	3	Horizontal	56	1.61	-
2402MHz	Pass	AV	2.402G	92.17	Inf	-Inf	30.41	3	Horizontal	56	1.61	-
2402MHz	Pass	PK	2.3844G	55.12	74.00	-18.88	30.36	3	Horizontal	56	1.61	-
2402MHz	Pass	PK	2.4022G	106.55	Inf	-Inf	30.42	3	Horizontal	56	1.61	-
2402MHz	Pass	AV	4.8025G	31.10	54.00	-22.90	5.78	3	Vertical	183	1.50	-
2402MHz	Pass	PK	4.80238G	45.67	74.00	-28.33	5.78	3	Vertical	183	1.50	-
2402MHz	Pass	AV	4.80196G	30.90	54.00	-23.10	5.78	3	Horizontal	26	2.68	-
2402MHz	Pass	PK	4.81264G	45.19	74.00	-28.81	5.81	3	Horizontal	26	2.68	-
2441MHz	Pass	AV	2.3898G	43.34	54.00	-10.66	30.38	3	Vertical	136	2.91	-
2441MHz	Pass	AV	2.441G	97.68	Inf	-Inf	30.55	3	Vertical	136	2.91	-
2441MHz	Pass	AV	2.4994G	43.84	54.00	-10.16	30.75	3	Vertical	136	2.91	-
2441MHz	Pass	PK	2.3706G	54.97	74.00	-19.03	30.31	3	Vertical	136	2.91	-
2441MHz	Pass	PK	2.4414G	103.19	Inf	-Inf	30.55	3	Vertical	136	2.91	-
2441MHz	Pass	PK	2.4966G	55.30	74.00	-18.70	30.74	3	Vertical	136	2.91	-
2441MHz	Pass	AV	2.387G	43.33	54.00	-10.67	30.37	3	Horizontal	328	1.25	-
2441MHz	Pass	AV	2.441G	99.08	Inf	-Inf	30.55	3	Horizontal	328	1.25	-
2441MHz	Pass	AV	2.499G	43.89	54.00	-10.11	30.75	3	Horizontal	328	1.25	-
2441MHz	Pass	PK	2.377G	54.87	74.00	-19.13	30.33	3	Horizontal	328	1.25	-
2441MHz	Pass	PK	2.441G	104.91	Inf	-Inf	30.55	3	Horizontal	328	1.25	-
2441MHz	Pass	PK	2.483502G	55.92	74.00	-18.08	30.69	3	Horizontal	328	1.25	-
2441MHz	Pass	AV	4.88224G	30.96	54.00	-23.04	5.96	3	Vertical	25	1.50	-
2441MHz	Pass	AV	7.31496G	36.98	54.00	-17.02	11.13	3	Vertical	133	1.50	-
2441MHz	Pass	PK	4.87192G	44.99	74.00	-29.01	5.93	3	Vertical	25	1.50	-
2441MHz	Pass	PK	7.32342G	51.33	74.00	-22.67	11.15	3	Vertical	133	1.50	-
2441MHz	Pass	AV	4.86706G	30.72	54.00	-23.28	5.91	3	Horizontal	314	1.50	-
2441MHz	Pass	AV	7.31424G	36.92	54.00	-17.08	11.13	3	Horizontal	207	1.02	-
2441MHz	Pass	PK	4.88308G	44.71	74.00	-29.29	5.96	3	Horizontal	314	1.50	-
2441MHz	Pass	PK	7.31574G	50.70	74.00	-23.30	11.13	3	Horizontal	207	1.02	-
2480MHz	Pass	AV	2.48G	82.17	Inf	-Inf	30.68	3	Vertical	41	2.49	-
2480MHz	Pass	AV	2.483502G	45.36	54.00	-8.64	30.69	3	Vertical	41	2.49	-
2480MHz	Pass	PK	2.4798G	94.13	Inf	-Inf	30.68	3	Vertical	41	2.49	-
2480MHz	Pass	PK	2.4956G	55.17	74.00	-18.83	30.74	3	Vertical	41	2.49	-
2480MHz	Pass	AV	2.48G	91.33	Inf	-Inf	30.68	3	Horizontal	326	1.24	-
2480MHz	Pass	AV	2.483502G	51.97	54.00	-2.03	30.69	3	Horizontal	326	1.24	-
2480MHz	Pass	PK	2.4802G	105.53	Inf	-Inf	30.68	3	Horizontal	326	1.24	-
2480MHz	Pass	PK	2.483502G	59.49	74.00	-14.51	30.69	3	Horizontal	326	1.24	-
2480MHz	Pass	AV	4.96G	31.41	54.00	-22.59	6.11	3	Vertical	30	2.57	-
2480MHz	Pass	AV	7.42716G	37.11	54.00	-16.89	11.44	3	Vertical	316	1.50	-
2480MHz	Pass	PK	4.96366G	44.42	74.00	-29.58	6.12	3	Vertical	30	2.57	-
2480MHz	Pass	PK	7.43436G	51.35	74.00	-22.65	11.47	3	Vertical	316	1.50	-
2480MHz	Pass	AV	4.96012G	30.79	54.00	-23.21	6.11	3	Horizontal	330	2.29	-
2480MHz	Pass	AV	7.42602G	37.07	54.00	-16.93	11.44	3	Horizontal	63	2.98	-
2480MHz	Pass	PK	4.95766G	44.71	74.00	-29.29	6.11	3	Horizontal	330	2.29	-



RSE TX above 1GHz Result

Appendix G.2

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2480MHz	Pass	PK	7.42512G	51.03	74.00	-22.97	11.44	3	Horizontal	63	2.98	-
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3898G	43.24	54.00	-10.76	30.38	3	Vertical	284	1.47	-
2402MHz	Pass	AV	2.402G	79.59	Inf	-Inf	30.41	3	Vertical	284	1.47	-
2402MHz	Pass	PK	2.37G	55.60	74.00	-18.40	30.31	3	Vertical	284	1.47	-
2402MHz	Pass	PK	2.4022G	93.64	Inf	-Inf	30.42	3	Vertical	284	1.47	-
2402MHz	Pass	AV	2.3896G	43.28	54.00	-10.72	30.38	3	Horizontal	57	1.61	-
2402MHz	Pass	AV	2.402G	88.83	Inf	-Inf	30.41	3	Horizontal	57	1.61	-
2402MHz	Pass	PK	2.3882G	54.98	74.00	-19.02	30.37	3	Horizontal	57	1.61	-
2402MHz	Pass	PK	2.4022G	105.37	Inf	-Inf	30.42	3	Horizontal	57	1.61	-
2441MHz	Pass	AV	2.3858G	43.32	54.00	-10.68	30.37	3	Vertical	135	2.91	-
2441MHz	Pass	AV	2.441G	93.51	Inf	-Inf	30.55	3	Vertical	135	2.91	-
2441MHz	Pass	AV	2.4998G	43.84	54.00	-10.16	30.75	3	Vertical	135	2.91	-
2441MHz	Pass	PK	2.3522G	54.96	74.00	-19.04	30.26	3	Vertical	135	2.91	-
2441MHz	Pass	PK	2.4414G	101.95	Inf	-Inf	30.55	3	Vertical	135	2.91	-
2441MHz	Pass	PK	2.4886G	56.24	74.00	-17.76	30.71	3	Vertical	135	2.91	-
2441MHz	Pass	AV	2.3862G	43.34	54.00	-10.66	30.37	3	Horizontal	329	1.23	-
2441MHz	Pass	AV	2.441G	95.55	Inf	-Inf	30.55	3	Horizontal	329	1.23	-
2441MHz	Pass	AV	2.4998G	43.85	54.00	-10.15	30.75	3	Horizontal	329	1.23	-
2441MHz	Pass	PK	2.3882G	55.08	74.00	-18.92	30.37	3	Horizontal	329	1.23	-
2441MHz	Pass	PK	2.4414G	103.82	Inf	-Inf	30.55	3	Horizontal	329	1.23	-
2441MHz	Pass	PK	2.4986G	55.04	74.00	-18.96	30.75	3	Horizontal	329	1.23	-
2480MHz	Pass	AV	2.48G	78.52	Inf	-Inf	30.68	3	Vertical	36	2.49	-
2480MHz	Pass	AV	2.483502G	44.69	54.00	-9.31	30.69	3	Vertical	36	2.49	-
2480MHz	Pass	PK	2.4802G	92.25	Inf	-Inf	30.68	3	Vertical	36	2.49	-
2480MHz	Pass	PK	2.4934G	55.69	74.00	-18.31	30.72	3	Vertical	36	2.49	-
2480MHz	Pass	AV	2.48G	87.71	Inf	-Inf	30.68	3	Horizontal	327	1.26	-
2480MHz	Pass	AV	2.483502G	50.66	54.00	-3.34	30.69	3	Horizontal	327	1.26	-
2480MHz	Pass	PK	2.4802G	104.00	Inf	-Inf	30.68	3	Horizontal	327	1.26	-
2480MHz	Pass	PK	2.483502G	60.49	74.00	-13.51	30.69	3	Horizontal	327	1.26	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.389998G	43.26	54.00	-10.74	30.38	3	Vertical	294	1.03	-
2402MHz	Pass	AV	2.402G	80.33	Inf	-Inf	30.41	3	Vertical	294	1.03	-
2402MHz	Pass	PK	2.389G	54.89	74.00	-19.11	30.37	3	Vertical	294	1.03	-
2402MHz	Pass	PK	2.402G	94.57	Inf	-Inf	30.41	3	Vertical	294	1.03	-
2402MHz	Pass	AV	2.389998G	43.29	54.00	-10.71	30.38	3	Horizontal	57	1.61	-
2402MHz	Pass	AV	2.402G	88.58	Inf	-Inf	30.41	3	Horizontal	57	1.61	-
2402MHz	Pass	PK	2.3856G	55.45	74.00	-18.55	30.37	3	Horizontal	57	1.61	-
2402MHz	Pass	PK	2.402G	105.19	Inf	-Inf	30.41	3	Horizontal	57	1.61	-
2441MHz	Pass	AV	2.3898G	43.37	54.00	-10.63	30.38	3	Vertical	135	2.92	-
2441MHz	Pass	AV	2.441G	93.22	Inf	-Inf	30.55	3	Vertical	135	2.92	-
2441MHz	Pass	AV	2.4994G	43.84	54.00	-10.16	30.75	3	Vertical	135	2.92	-
2441MHz	Pass	PK	2.3746G	54.77	74.00	-19.23	30.33	3	Vertical	135	2.92	-
2441MHz	Pass	PK	2.441G	101.90	Inf	-Inf	30.55	3	Vertical	135	2.92	-
2441MHz	Pass	PK	2.4842G	55.31	74.00	-18.69	30.69	3	Vertical	135	2.92	-
2441MHz	Pass	AV	2.389G	43.29	54.00	-10.71	30.37	3	Horizontal	329	1.24	-
2441MHz	Pass	AV	2.441G	95.44	Inf	-Inf	30.55	3	Horizontal	329	1.24	-
2441MHz	Pass	AV	2.4998G	43.95	54.00	-10.05	30.75	3	Horizontal	329	1.24	-
2441MHz	Pass	PK	2.375G	54.94	74.00	-19.06	30.33	3	Horizontal	329	1.24	-



**RSE TX above 1GHz Result**

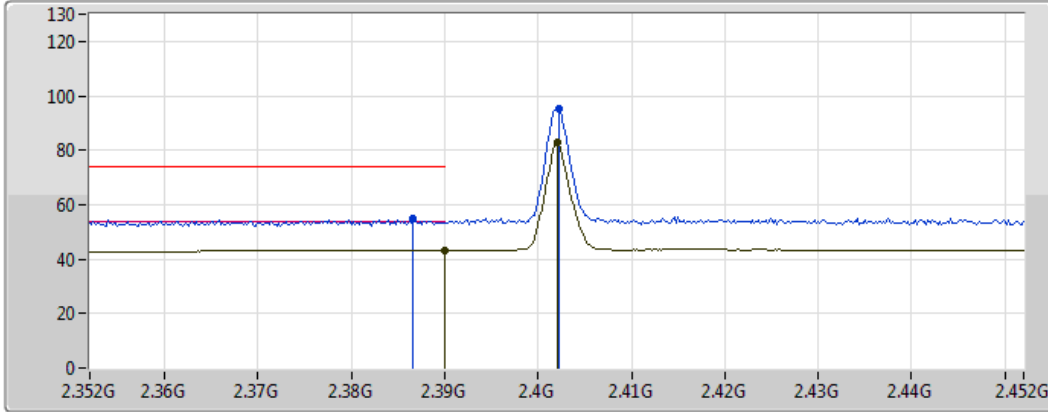
**Appendix G.2**





Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2441MHz	Pass	PK	2.441G	103.75	Inf	-Inf	30.55	3	Horizontal	329	1.24	-
2441MHz	Pass	PK	2.4974G	55.50	74.00	-18.50	30.74	3	Horizontal	329	1.24	-
2480MHz	Pass	AV	2.48G	79.26	Inf	-Inf	30.68	3	Vertical	73	2.97	-
2480MHz	Pass	AV	2.483502G	45.03	54.00	-8.97	30.69	3	Vertical	73	2.97	-
2480MHz	Pass	PK	2.48G	93.30	Inf	-Inf	30.68	3	Vertical	73	2.97	-
2480MHz	Pass	PK	2.4924G	55.44	74.00	-18.56	30.72	3	Vertical	73	2.97	-
2480MHz	Pass	AV	2.48G	87.58	Inf	-Inf	30.68	3	Horizontal	325	1.25	-
2480MHz	Pass	AV	2.483502G	50.56	54.00	-3.44	30.69	3	Horizontal	325	1.25	-
2480MHz	Pass	PK	2.4802G	104.11	Inf	-Inf	30.68	3	Horizontal	325	1.25	-
2480MHz	Pass	PK	2.483502G	59.20	74.00	-14.80	30.69	3	Horizontal	325	1.25	-

### BT-BR(1Mbps)

### 2402MHz\_TX

31/07/2018



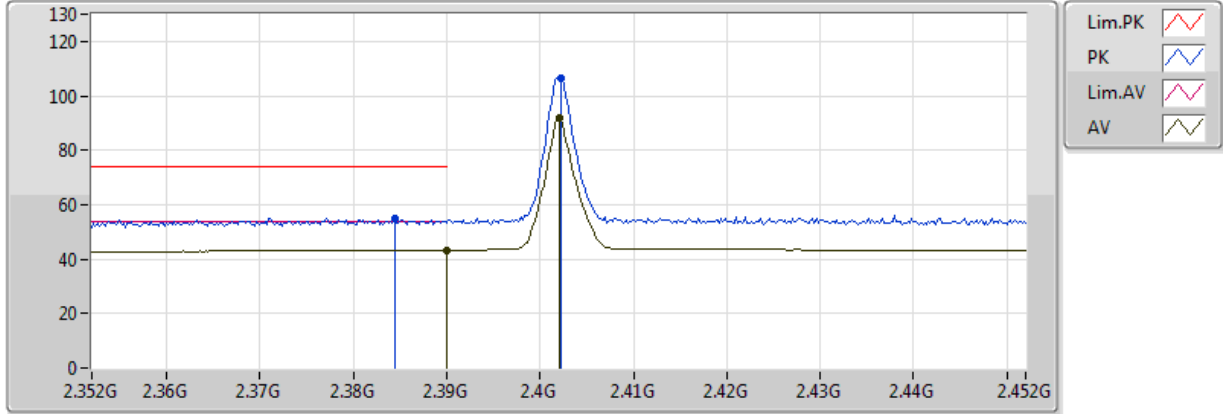
- Lim.PK 
- PK 
- Lim.AV 
- AV 

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.25	54.00	-10.75	30.38	3	Vertical	284	1.46	-
AV	2.402G	82.82	Inf	-Inf	30.41	3	Vertical	284	1.46	-
PK	2.3866G	55.11	74.00	-18.89	30.37	3	Vertical	284	1.46	-
PK	2.4022G	95.04	Inf	-Inf	30.42	3	Vertical	284	1.46	-

### BT-BR(1Mbps)

### 2402MHz\_TX

31/07/2018



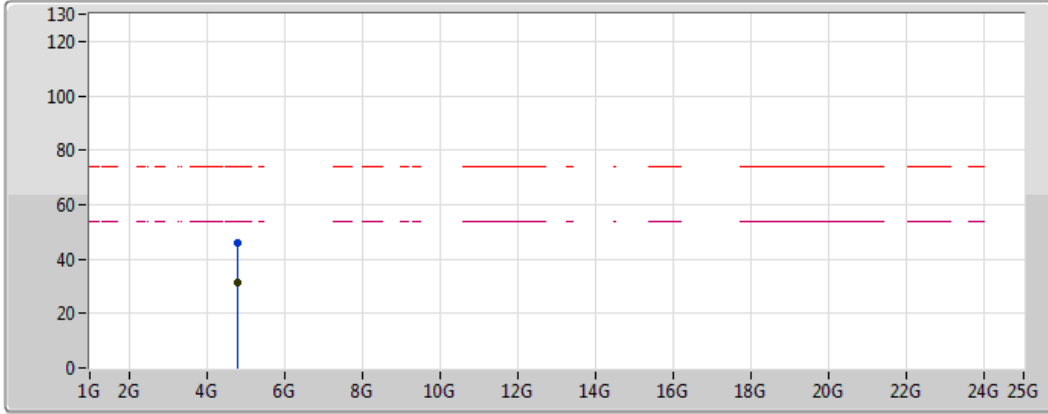
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.32	54.00	-10.68	30.38	3	Horizontal	56	1.61	-
AV	2.402G	92.17	Inf	-Inf	30.41	3	Horizontal	56	1.61	-
PK	2.3844G	55.12	74.00	-18.88	30.36	3	Horizontal	56	1.61	-
PK	2.4022G	106.55	Inf	-Inf	30.42	3	Horizontal	56	1.61	-







### BT-BR(1Mbps)

### 2402MHz\_TX

31/07/2018



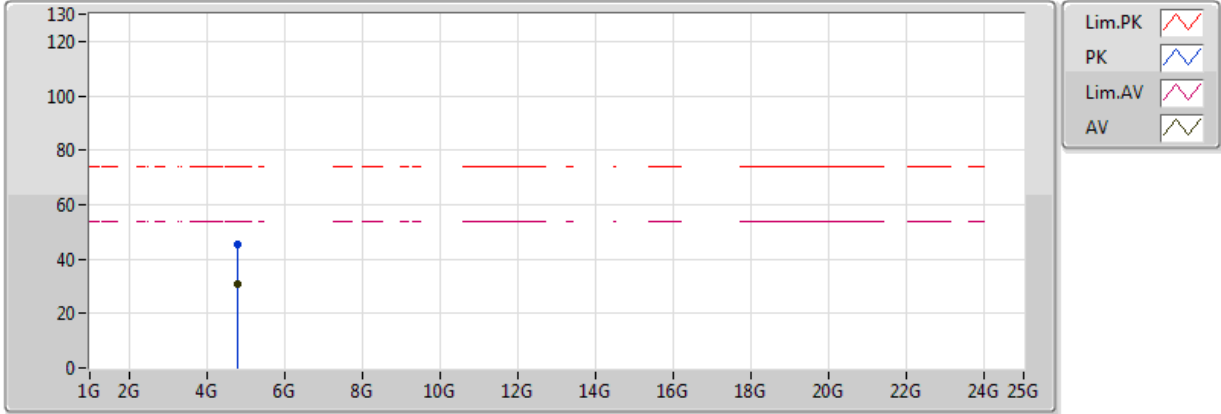
Lim.PK	
PK	
Lim.AV	
AV	

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8025G	31.10	54.00	-22.90	5.78	3	Vertical	183	1.50	-
PK	4.80238G	45.67	74.00	-28.33	5.78	3	Vertical	183	1.50	-

### BT-BR(1Mbps)

### 2402MHz\_TX

31/07/2018

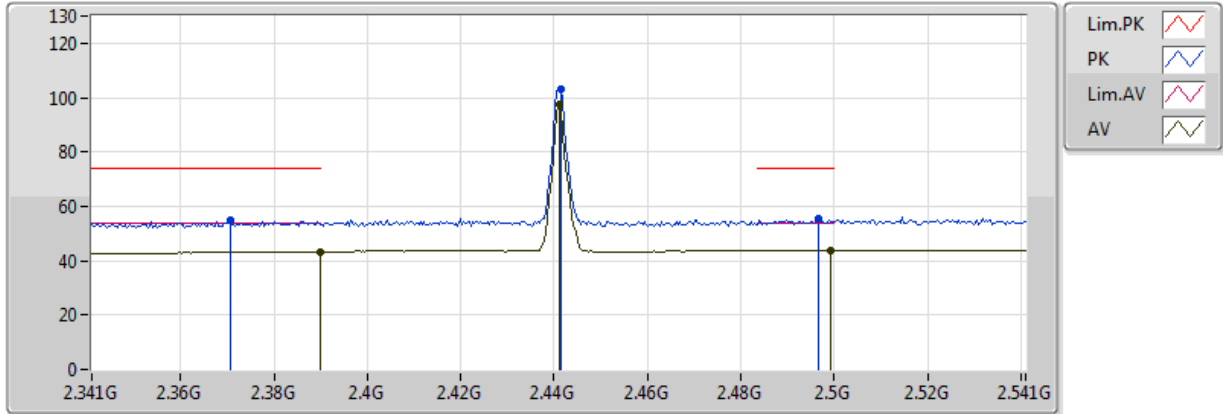


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.80196G	30.90	54.00	-23.10	5.78	3	Horizontal	26	2.68	-
PK	4.81264G	45.19	74.00	-28.81	5.81	3	Horizontal	26	2.68	-

### BT-BR(1Mbps)

### 2441MHz\_TX

31/07/2018

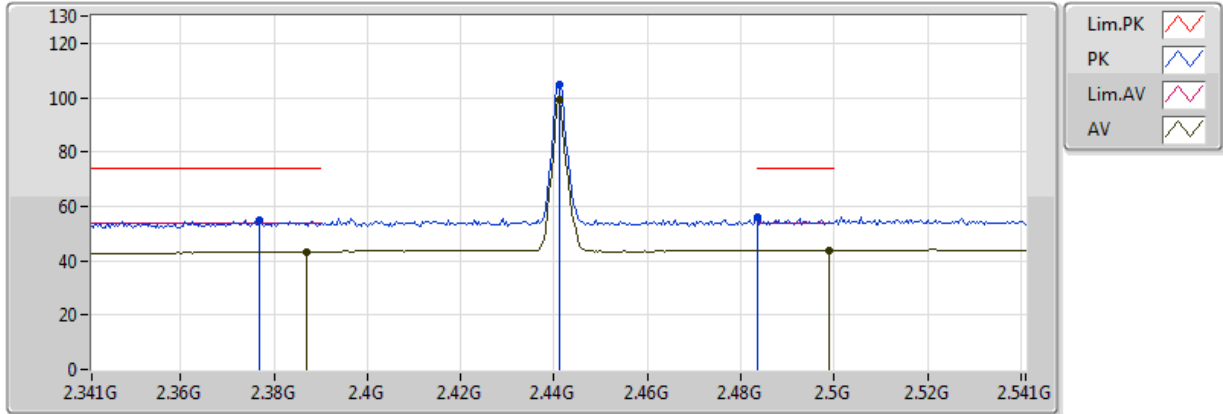


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.34	54.00	-10.66	30.38	3	Vertical	136	2.91	-
AV	2.441G	97.68	Inf	-Inf	30.55	3	Vertical	136	2.91	-
AV	2.4994G	43.84	54.00	-10.16	30.75	3	Vertical	136	2.91	-
PK	2.3706G	54.97	74.00	-19.03	30.31	3	Vertical	136	2.91	-
PK	2.4414G	103.19	Inf	-Inf	30.55	3	Vertical	136	2.91	-
PK	2.4966G	55.30	74.00	-18.70	30.74	3	Vertical	136	2.91	-

### BT-BR(1Mbps)

### 2441MHz\_TX

31/07/2018

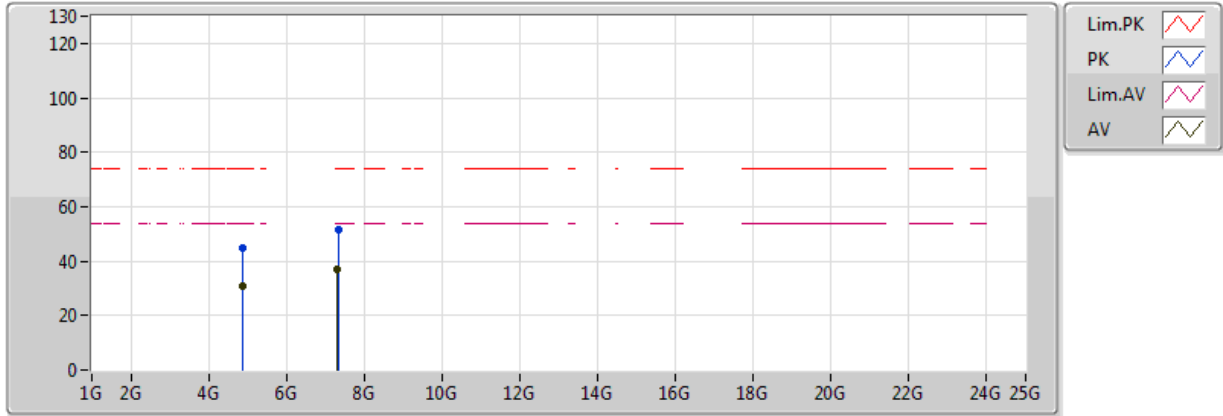


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.387G	43.33	54.00	-10.67	30.37	3	Horizontal	328	1.25	-
AV	2.441G	99.08	Inf	-Inf	30.55	3	Horizontal	328	1.25	-
AV	2.499G	43.89	54.00	-10.11	30.75	3	Horizontal	328	1.25	-
PK	2.377G	54.87	74.00	-19.13	30.33	3	Horizontal	328	1.25	-
PK	2.441G	104.91	Inf	-Inf	30.55	3	Horizontal	328	1.25	-
PK	2.483502G	55.92	74.00	-18.08	30.69	3	Horizontal	328	1.25	-

### BT-BR(1Mbps)

### 2441MHz\_TX

31/07/2018

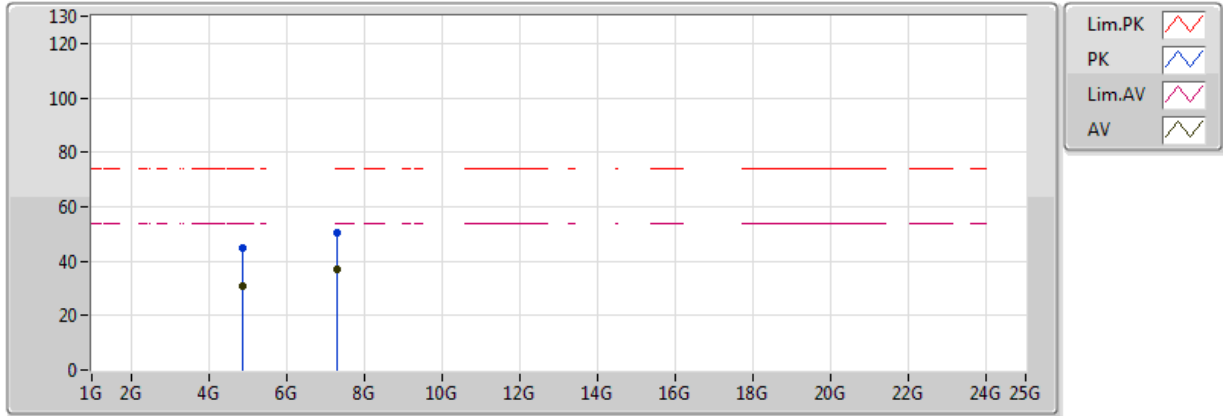


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.88224G	30.96	54.00	-23.04	5.96	3	Vertical	25	1.50	-
AV	7.31496G	36.98	54.00	-17.02	11.13	3	Vertical	133	1.50	-
PK	4.87192G	44.99	74.00	-29.01	5.93	3	Vertical	25	1.50	-
PK	7.32342G	51.33	74.00	-22.67	11.15	3	Vertical	133	1.50	-

### BT-BR(1Mbps)

### 2441MHz\_TX

31/07/2018

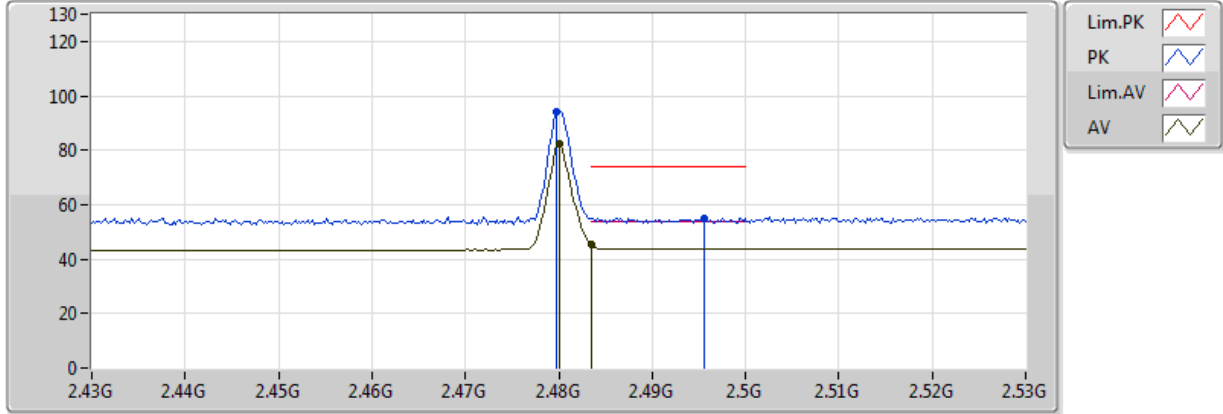


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.86706G	30.72	54.00	-23.28	5.91	3	Horizontal	314	1.50	-
AV	7.31424G	36.92	54.00	-17.08	11.13	3	Horizontal	207	1.02	-
PK	4.88308G	44.71	74.00	-29.29	5.96	3	Horizontal	314	1.50	-
PK	7.31574G	50.70	74.00	-23.30	11.13	3	Horizontal	207	1.02	-

### BT-BR(1Mbps)

### 2480MHz\_TX

31/07/2018

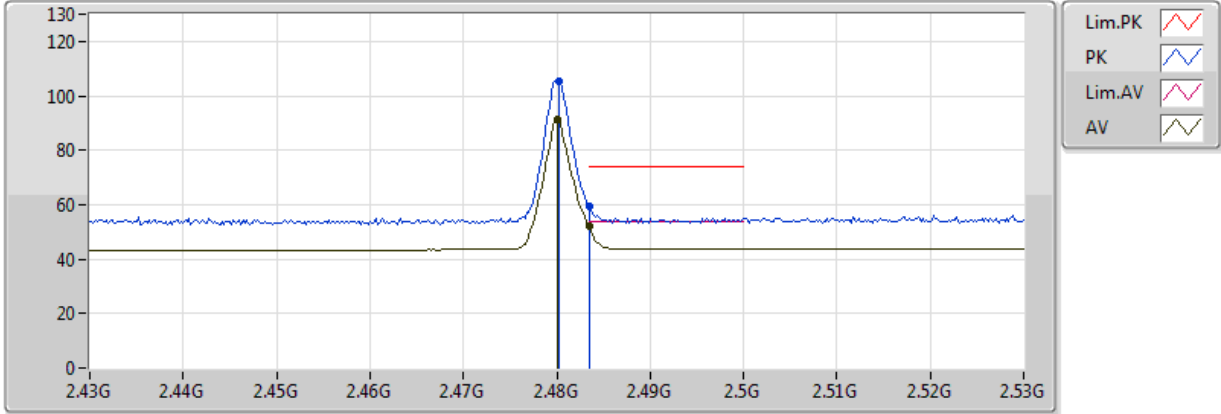


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	82.17	Inf	-Inf	30.68	3	Vertical	41	2.49	-
AV	2.483502G	45.36	54.00	-8.64	30.69	3	Vertical	41	2.49	-
PK	2.4798G	94.13	Inf	-Inf	30.68	3	Vertical	41	2.49	-
PK	2.4956G	55.17	74.00	-18.83	30.74	3	Vertical	41	2.49	-

### BT-BR(1Mbps)

### 2480MHz\_TX

31/07/2018



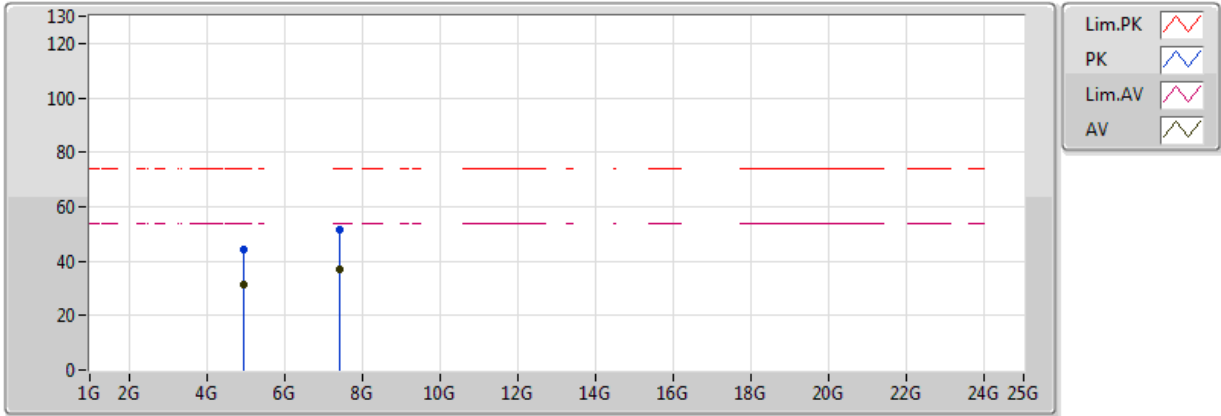
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	91.33	Inf	-Inf	30.68	3	Horizontal	326	1.24	-
AV	2.483502G	51.97	54.00	-2.03	30.69	3	Horizontal	326	1.24	-
PK	2.4802G	105.53	Inf	-Inf	30.68	3	Horizontal	326	1.24	-
PK	2.483502G	59.49	74.00	-14.51	30.69	3	Horizontal	326	1.24	-



### BT-BR(1Mbps)

### 2480MHz\_TX

31/07/2018

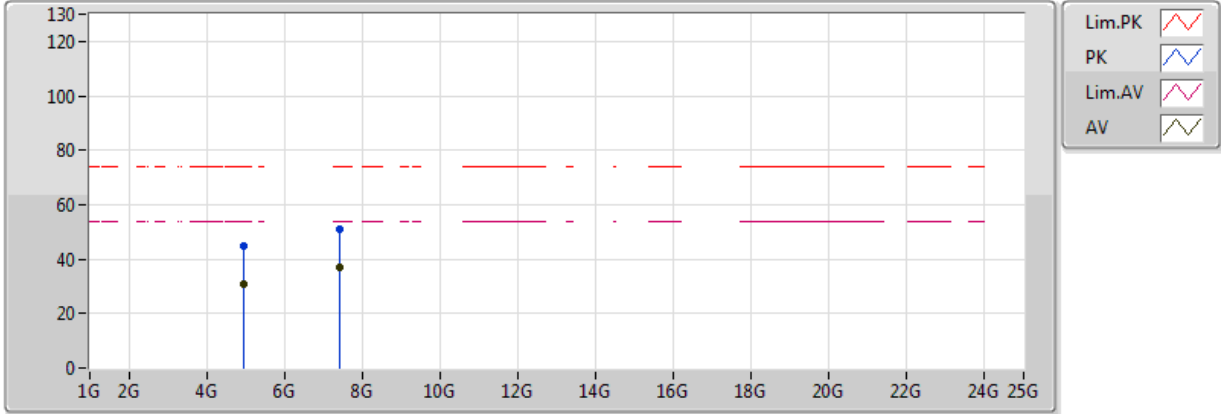


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.96G	31.41	54.00	-22.59	6.11	3	Vertical	30	2.57	-
AV	7.42716G	37.11	54.00	-16.89	11.44	3	Vertical	316	1.50	-
PK	4.96366G	44.42	74.00	-29.58	6.12	3	Vertical	30	2.57	-
PK	7.43436G	51.35	74.00	-22.65	11.47	3	Vertical	316	1.50	-

### BT-BR(1Mbps)

### 2480MHz\_TX

31/07/2018

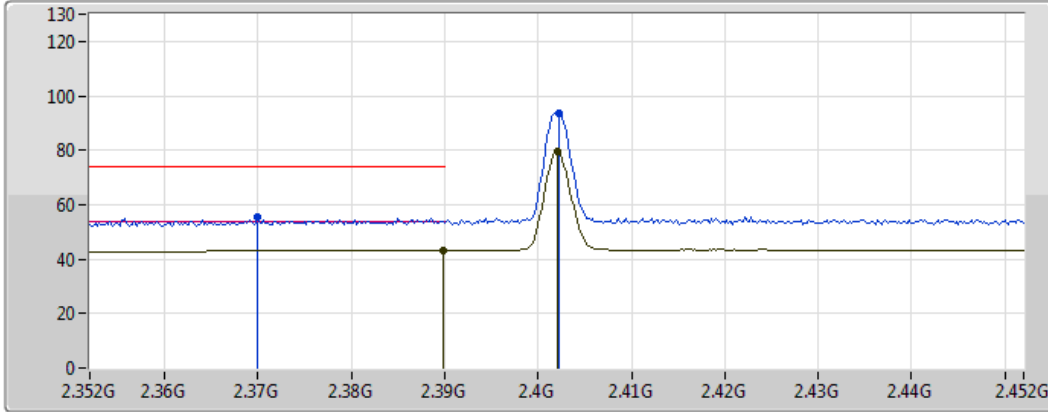


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.96012G	30.79	54.00	-23.21	6.11	3	Horizontal	330	2.29	-
AV	7.42602G	37.07	54.00	-16.93	11.44	3	Horizontal	63	2.98	-
PK	4.95766G	44.71	74.00	-29.29	6.11	3	Horizontal	330	2.29	-
PK	7.42512G	51.03	74.00	-22.97	11.44	3	Horizontal	63	2.98	-

### BT-EDR(2Mbps)

### 2402MHz\_TX

31/07/2018

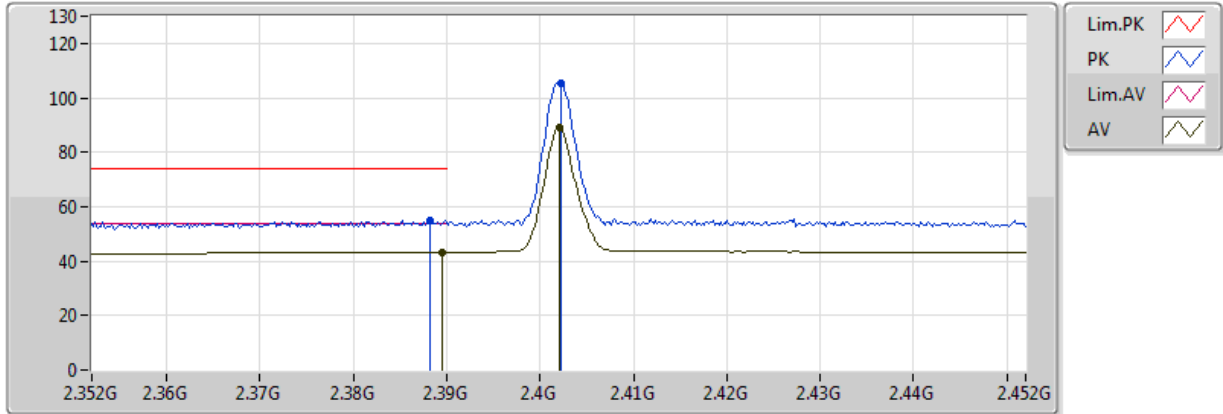


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.24	54.00	-10.76	30.38	3	Vertical	284	1.47	-
AV	2.402G	79.59	Inf	-Inf	30.41	3	Vertical	284	1.47	-
PK	2.37G	55.60	74.00	-18.40	30.31	3	Vertical	284	1.47	-
PK	2.4022G	93.64	Inf	-Inf	30.42	3	Vertical	284	1.47	-

### BT-EDR(2Mbps)

### 2402MHz\_TX

31/07/2018

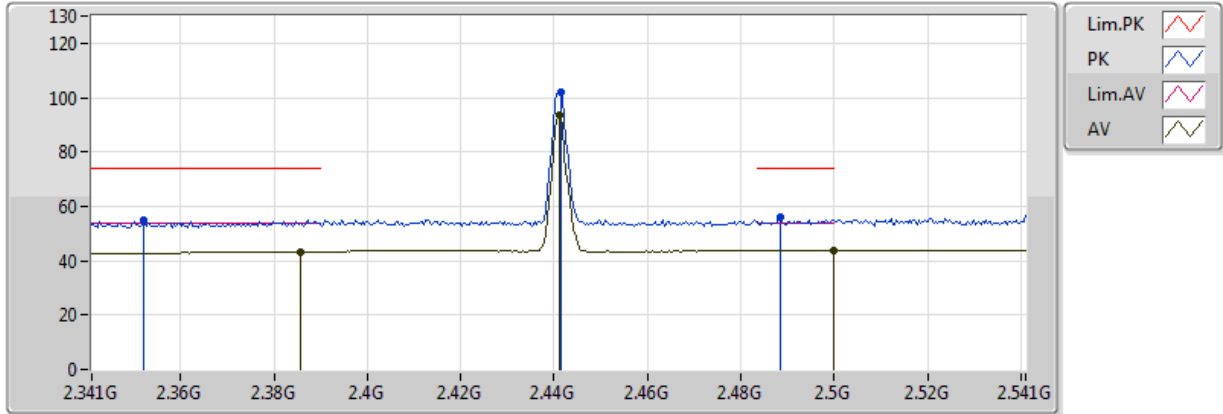


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3896G	43.28	54.00	-10.72	30.38	3	Horizontal	57	1.61	-
AV	2.402G	88.83	Inf	-Inf	30.41	3	Horizontal	57	1.61	-
PK	2.3882G	54.98	74.00	-19.02	30.37	3	Horizontal	57	1.61	-
PK	2.4022G	105.37	Inf	-Inf	30.42	3	Horizontal	57	1.61	-

### BT-EDR(2Mbps)

### 2441MHz\_TX

31/07/2018

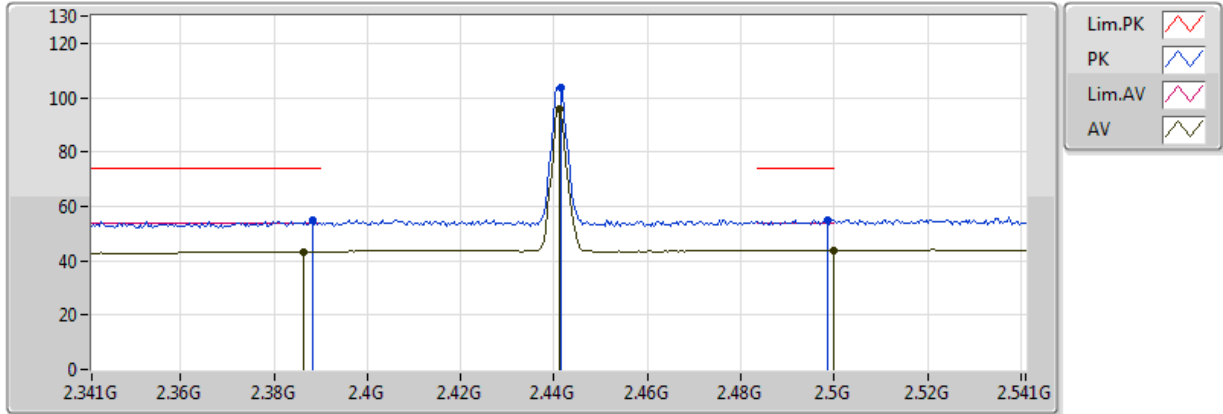


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3858G	43.32	54.00	-10.68	30.37	3	Vertical	135	2.91	-
AV	2.441G	93.51	Inf	-Inf	30.55	3	Vertical	135	2.91	-
AV	2.4998G	43.84	54.00	-10.16	30.75	3	Vertical	135	2.91	-
PK	2.3522G	54.96	74.00	-19.04	30.26	3	Vertical	135	2.91	-
PK	2.4414G	101.95	Inf	-Inf	30.55	3	Vertical	135	2.91	-
PK	2.4886G	56.24	74.00	-17.76	30.71	3	Vertical	135	2.91	-

### BT-EDR(2Mbps)

### 2441MHz\_TX

31/07/2018

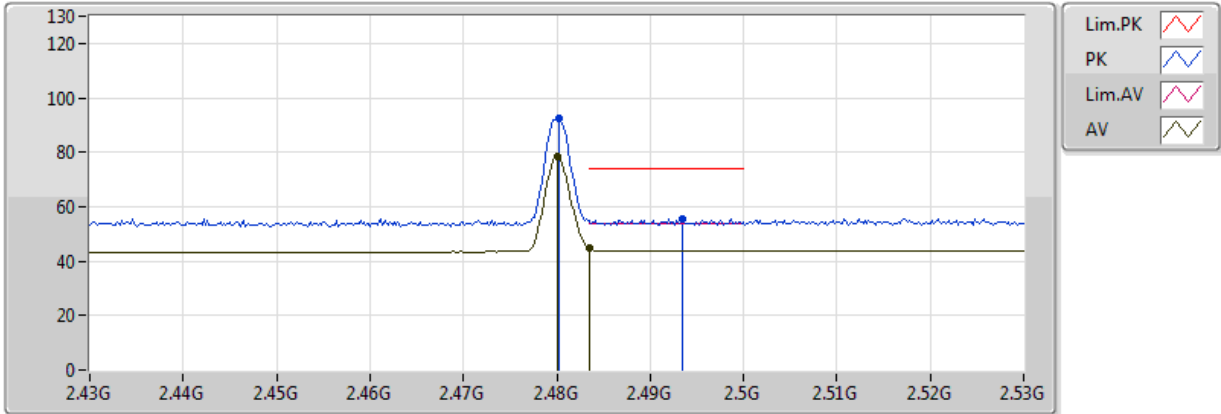


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3862G	43.34	54.00	-10.66	30.37	3	Horizontal	329	1.23	-
AV	2.441G	95.55	Inf	-Inf	30.55	3	Horizontal	329	1.23	-
AV	2.4998G	43.85	54.00	-10.15	30.75	3	Horizontal	329	1.23	-
PK	2.3882G	55.08	74.00	-18.92	30.37	3	Horizontal	329	1.23	-
PK	2.4414G	103.82	Inf	-Inf	30.55	3	Horizontal	329	1.23	-
PK	2.4986G	55.04	74.00	-18.96	30.75	3	Horizontal	329	1.23	-

### BT-EDR(2Mbps)

### 2480MHz\_TX

31/07/2018

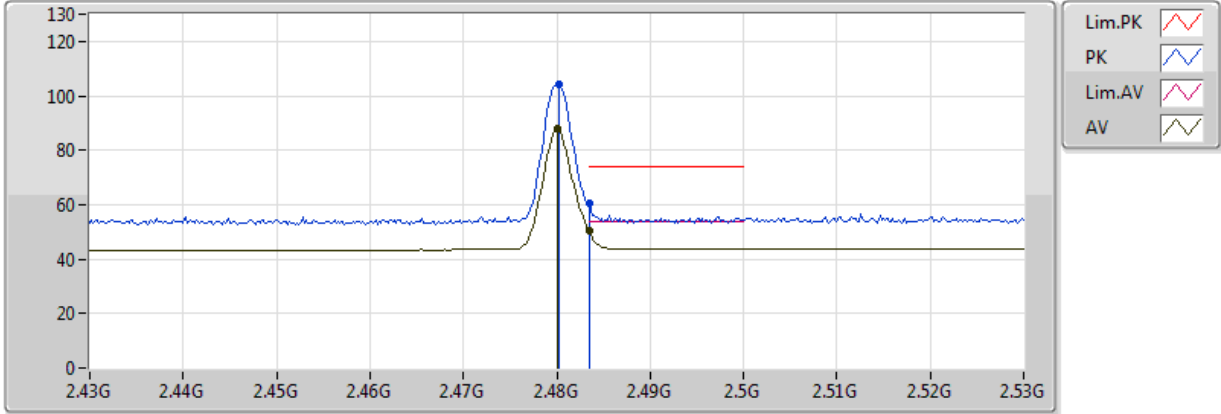


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	78.52	Inf	-Inf	30.68	3	Vertical	36	2.49	-
AV	2.483502G	44.69	54.00	-9.31	30.69	3	Vertical	36	2.49	-
PK	2.4802G	92.25	Inf	-Inf	30.68	3	Vertical	36	2.49	-
PK	2.4934G	55.69	74.00	-18.31	30.72	3	Vertical	36	2.49	-

### BT-EDR(2Mbps)

### 2480MHz\_TX

31/07/2018



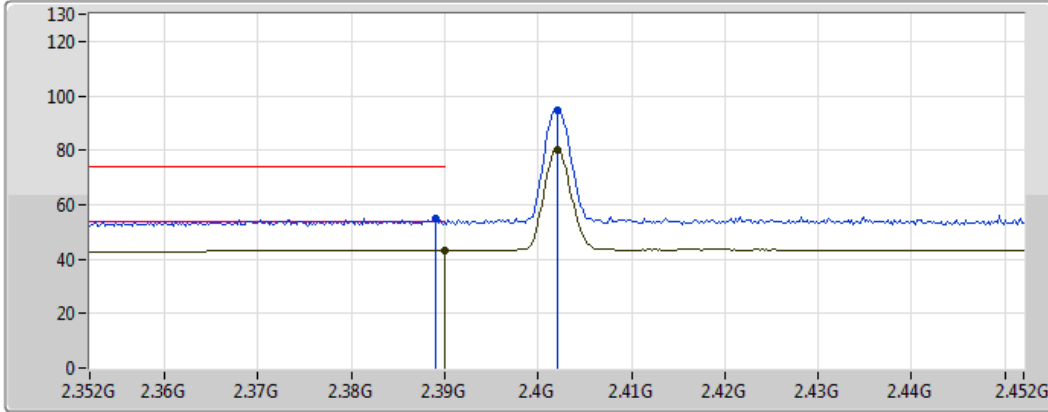
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	87.71	Inf	-Inf	30.68	3	Horizontal	327	1.26	-
AV	2.483502G	50.66	54.00	-3.34	30.69	3	Horizontal	327	1.26	-
PK	2.4802G	104.00	Inf	-Inf	30.68	3	Horizontal	327	1.26	-
PK	2.483502G	60.49	74.00	-13.51	30.69	3	Horizontal	327	1.26	-



### BT-EDR(3Mbps)

### 2402MHz\_TX

31/07/2018

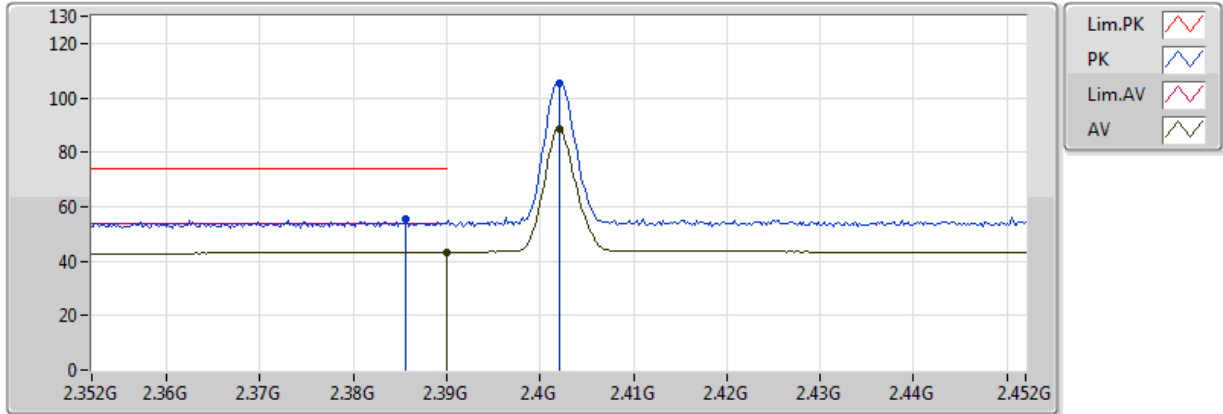


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.26	54.00	-10.74	30.38	3	Vertical	294	1.03	-
AV	2.402G	80.33	Inf	-Inf	30.41	3	Vertical	294	1.03	-
PK	2.389G	54.89	74.00	-19.11	30.37	3	Vertical	294	1.03	-
PK	2.402G	94.57	Inf	-Inf	30.41	3	Vertical	294	1.03	-

### BT-EDR(3Mbps)

### 2402MHz\_TX

31/07/2018

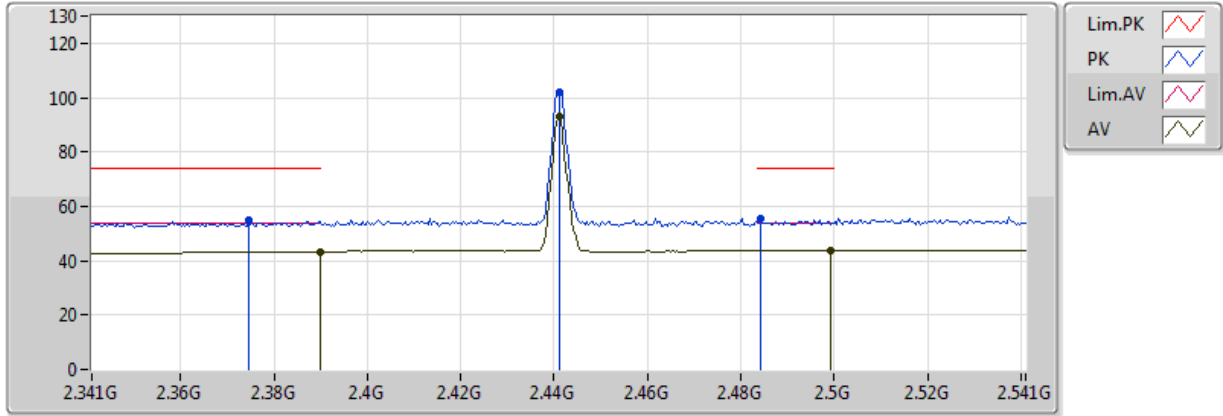


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.29	54.00	-10.71	30.38	3	Horizontal	57	1.61	-
AV	2.402G	88.58	Inf	-Inf	30.41	3	Horizontal	57	1.61	-
PK	2.3856G	55.45	74.00	-18.55	30.37	3	Horizontal	57	1.61	-
PK	2.402G	105.19	Inf	-Inf	30.41	3	Horizontal	57	1.61	-

### BT-EDR(3Mbps)

### 2441MHz\_TX

31/07/2018

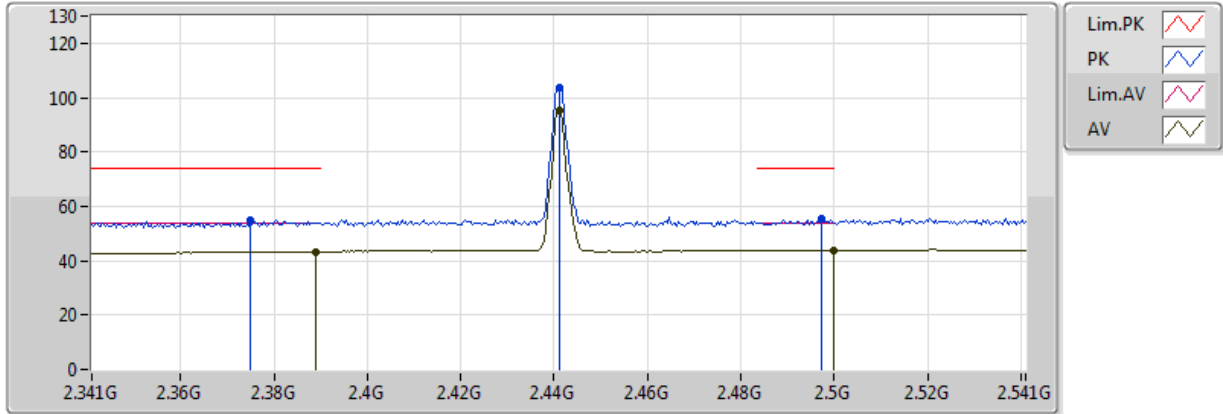


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.37	54.00	-10.63	30.38	3	Vertical	135	2.92	-
AV	2.441G	93.22	Inf	-Inf	30.55	3	Vertical	135	2.92	-
AV	2.4994G	43.84	54.00	-10.16	30.75	3	Vertical	135	2.92	-
PK	2.3746G	54.77	74.00	-19.23	30.33	3	Vertical	135	2.92	-
PK	2.441G	101.90	Inf	-Inf	30.55	3	Vertical	135	2.92	-
PK	2.4842G	55.31	74.00	-18.69	30.69	3	Vertical	135	2.92	-

### BT-EDR(3Mbps)

### 2441MHz\_TX

31/07/2018

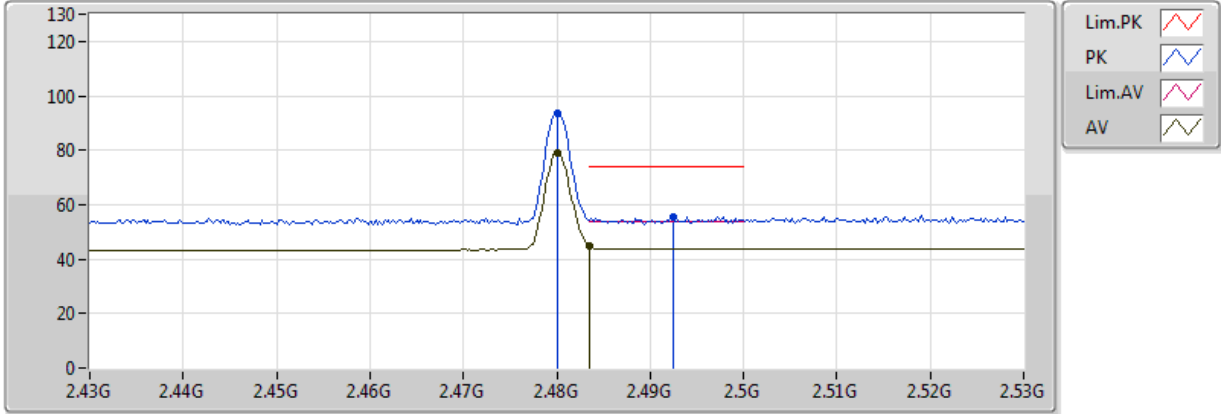


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	43.29	54.00	-10.71	30.37	3	Horizontal	329	1.24	-
AV	2.441G	95.44	Inf	-Inf	30.55	3	Horizontal	329	1.24	-
AV	2.4998G	43.95	54.00	-10.05	30.75	3	Horizontal	329	1.24	-
PK	2.375G	54.94	74.00	-19.06	30.33	3	Horizontal	329	1.24	-
PK	2.441G	103.75	Inf	-Inf	30.55	3	Horizontal	329	1.24	-
PK	2.4974G	55.50	74.00	-18.50	30.74	3	Horizontal	329	1.24	-

### BT-EDR(3Mbps)

### 2480MHz\_TX

31/07/2018

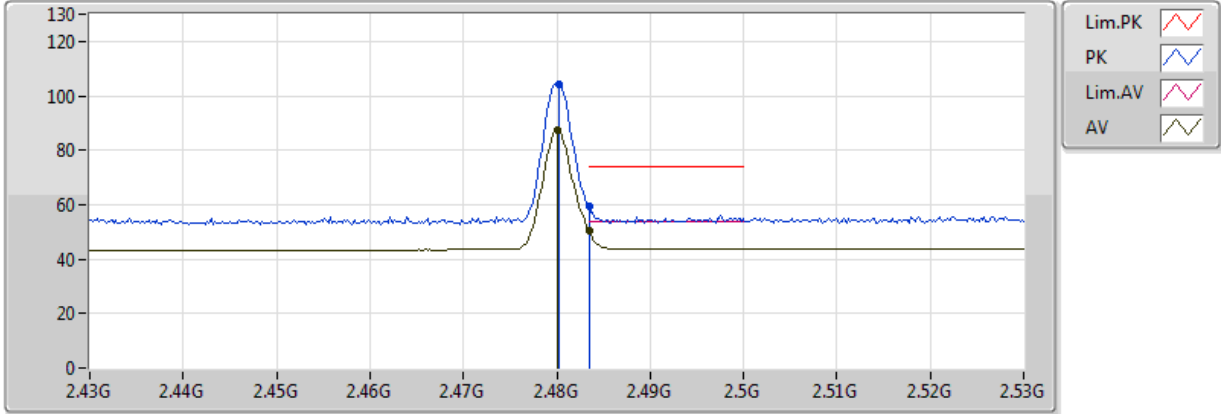


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	79.26	Inf	-Inf	30.68	3	Vertical	73	2.97	-
AV	2.483502G	45.03	54.00	-8.97	30.69	3	Vertical	73	2.97	-
PK	2.48G	93.30	Inf	-Inf	30.68	3	Vertical	73	2.97	-
PK	2.4924G	55.44	74.00	-18.56	30.72	3	Vertical	73	2.97	-

### BT-EDR(3Mbps)

### 2480MHz\_TX

31/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.48G	87.58	Inf	-Inf	30.68	3	Horizontal	325	1.25	-
AV	2.483502G	50.56	54.00	-3.44	30.69	3	Horizontal	325	1.25	-
PK	2.4802G	104.11	Inf	-Inf	30.68	3	Horizontal	325	1.25	-
PK	2.483502G	59.20	74.00	-14.80	30.69	3	Horizontal	325	1.25	-