

FCC Test Report

FCC ID : LDKNVTX11697
Equipment : Embedded System Module – WLAN/BT – Jetson TX1
Brand Name : NVIDIA
Model No. : P2180
Applicant : CISCO SYSTEMS, INC.
125 West Tasman Drive, CA 95134
Manufacturer : NVIDIA CORPORATION
2788 San Tomas Expressway, Santa Clara, CA 95051
United States Of America(Excluding The States Of
Alaska)
Standard : 47 CFR FCC Part 15.247

The product was received on Feb. 27, 2018, and testing was started from Mar. 08, 2018 and completed on Mar. 17, 2018. We, SPORTON INTERTIONAL 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 INTERTIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Allen Lin

SPORTON INTERTIONAL INC. EMC & Wireless Communications Laboratory

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

Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	8
2 TEST CONFIGURATION OF EUT.....	9
2.1 Test Condition	9
2.2 Test Channel Mode	9
2.3 The Worst Case Measurement Configuration.....	10
2.4 Support Equipment.....	11
2.5 Test Setup Diagram	12
3 TRANSMITTER TEST RESULT	14
3.1 AC Power-line Conducted Emissions	14
3.2 20dB Bandwidth and Carrier Frequency Separation.....	15
3.3 Maximum Conducted Output Power	16
3.4 Number of Hopping Frequencies and Hopping Bandedge	17
3.5 Time of Occupancy (Dwell Time)	18
3.6 Emissions in Non-restricted Frequency Bands	19
3.7 Emissions in Restricted Frequency Bands.....	20
4 TEST EQUIPMENT AND CALIBRATION DATA.....	23
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF 20DB BANDWIDTH AND CARRIER FREQUENCY SEPARATION	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF NUMBER OF HOPPING FREQUENCIES AND HOPPING BANDEDGE	
APPENDIX E. TEST RESULTS OF TIME OF OCCUPANCY (DWELL TIME)	
APPENDIX F. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



TEL : 886-3-327-3456
FAX : 886-3-327-0973
Report Template No.: HE1-C9 Ver2.0
FCC ID: LDKNVTX11697

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: Jeremy Lin

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.	Port	Brand	Model Name	Antenna Type	Connector
1	1	Shanghai Amphenol Airwave	Ci8717-15-000-R	PCB Antenna	Reversed-SMA
2	2	Shanghai Amphenol Airwave	Ci8717-15-000-R	PCB Antenna	Reversed-SMA
3	-	Shanghai Amphenol Airwave	Ci8210-15-000-R-TA	PCB Antenna	I-PEX
4	-	Shanghai Amphenol Airwave	Ci8211-15-000-R	PCB Antenna	I-PEX
5	-	Shanghai Amphenol Airwave	CI9808-15-000-R	PCB Antenna	I-PEX
6	-	Shanghai Amphenol Airwave	CI9809-15-000-R	PCB Antenna	I-PEX
7	-	Shanghai Amphenol Airwave	CI9811-15-000-R	PCB Antenna	I-PEX
8	-	Shanghai Amphenol Airwave	CI9810-15-000-R	PCB Antenna	I-PEX
9	-	Shanghai Amphenol Airwave	CI9812-15-000-R	PCB Antenna	I-PEX
10	-	Shanghai Amphenol Airwave	CI9813-15-000-R	PCB Antenna	I-PEX

Ant.	Gain (dBi)					
	2.4G	BT	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
1	6.02	6.02	5.53	6.48	7.91	5.38
2	6.02	6.02	5.53	6.48	7.91	5.38
3	-2.3	-2.3	2.5	2.9	3	3.2
4	-2.1	-2.1	1.2	1.7	3.2	4.1
5	-	-	-7.8	-7.8	-6.5	-5
6	-	-	-5.9	-5.7	-4.5	-3.1
7	-	-	-6.5	-6.1	-4.1	-3.7
8	-	-	-6.1	-5.7	-4.6	-3.3
9	-	-	-6.1	-7.6	-4.8	-4
10	-	-	-6.1	-7.6	-4.8	-4

Note : EUT can match with above antennas for using. Higher gain antenna(Ant.1 and Ant. 2) was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

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

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

Supports 2T2R Spatial Multiplexing MIMO configuration.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

For 5GHz function:

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

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

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

Supports 2T2R Spatial Multiplexing MIMO configuration.

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From AC Adapter
RF Chip	BCM4354
Type of EUT	
☒	Stand-alone
☐	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
☐	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
☐	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) $\geq 1/T$
BT-BR(1Mbps)	0.741	1.302	2.888m
BT-EDR(2Mbps)	0.749	1.255	2.891m
BT-EDR(3Mbps)	0.786	1.046	2.893m

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			
☒	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.			
☐	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	Barry	24.5°C / 62%	12/Mar/2018
Radiated	03CH02-HY	Jerry	25.8°C / 55%	08/Mar/2018
AC Conduction	CO04-HY	Daniel	22.8°C / 51%	17/Mar/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

Condition Item	Abbreviation/Remark	Remark
RF Conducted-DTS	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software	DoS
---------------	-----

Mode	Power Setting
BT-BR(1Mbps)	-
2402MHz	0x9
2441MHz	0x9
2480MHz	0x9
BT-EDR(2Mbps)	-
2402MHz	0x9
2441MHz	0x9
2480MHz	0x9
BT-EDR(3Mbps)	-
2402MHz	0x9
2441MHz	0x9
2480MHz	0x9

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 ; 2.4G TX

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 ; 2.4G TX
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	

2.4 Support Equipment

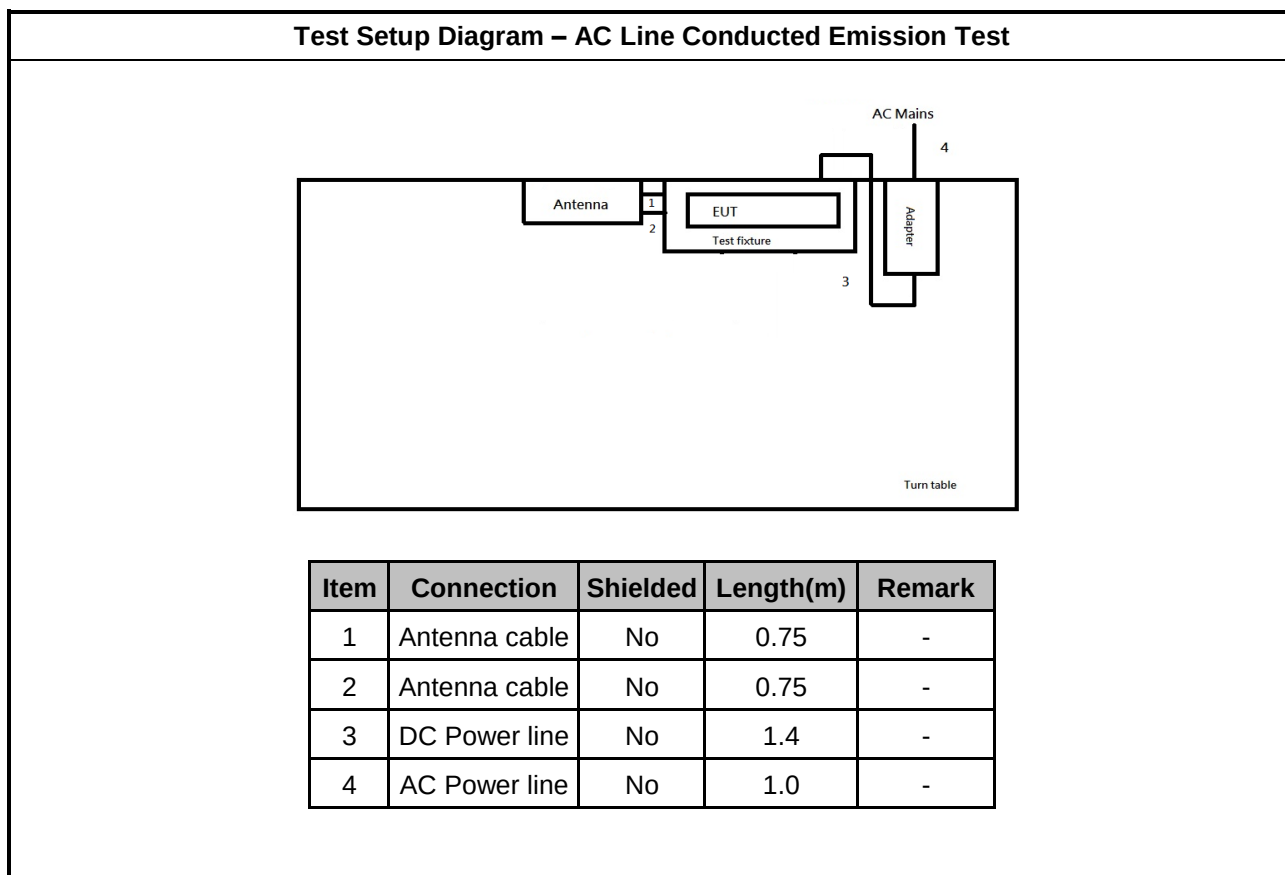
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	AC Source	GW	APS-9102	-
4	Fixture	-	-	-

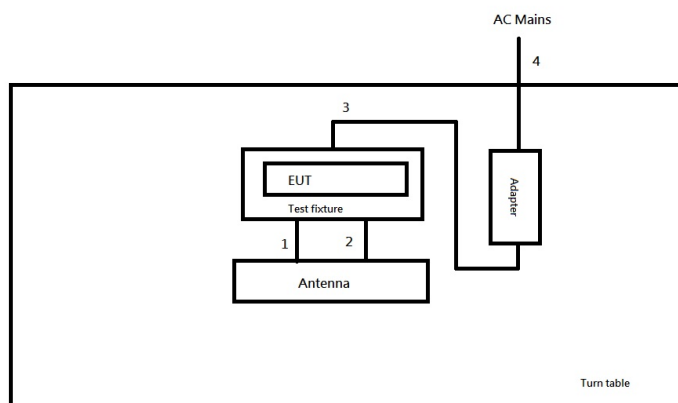
Note: Support equipment No.4 was provided by customer.

Support Equipment – Radiated Emission and AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Fixture	-	-	-
2	AC Adapter	AcBel	ADF019	-

Note: Support equipment No.1 was provided by customer.

2.5 Test Setup Diagram



Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	Antenna cable	No	0.75	-
2	Antenna cable	No	0.75	-
3	DC Power line	No	1.4	-
4	AC Power line	No	1.0	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

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

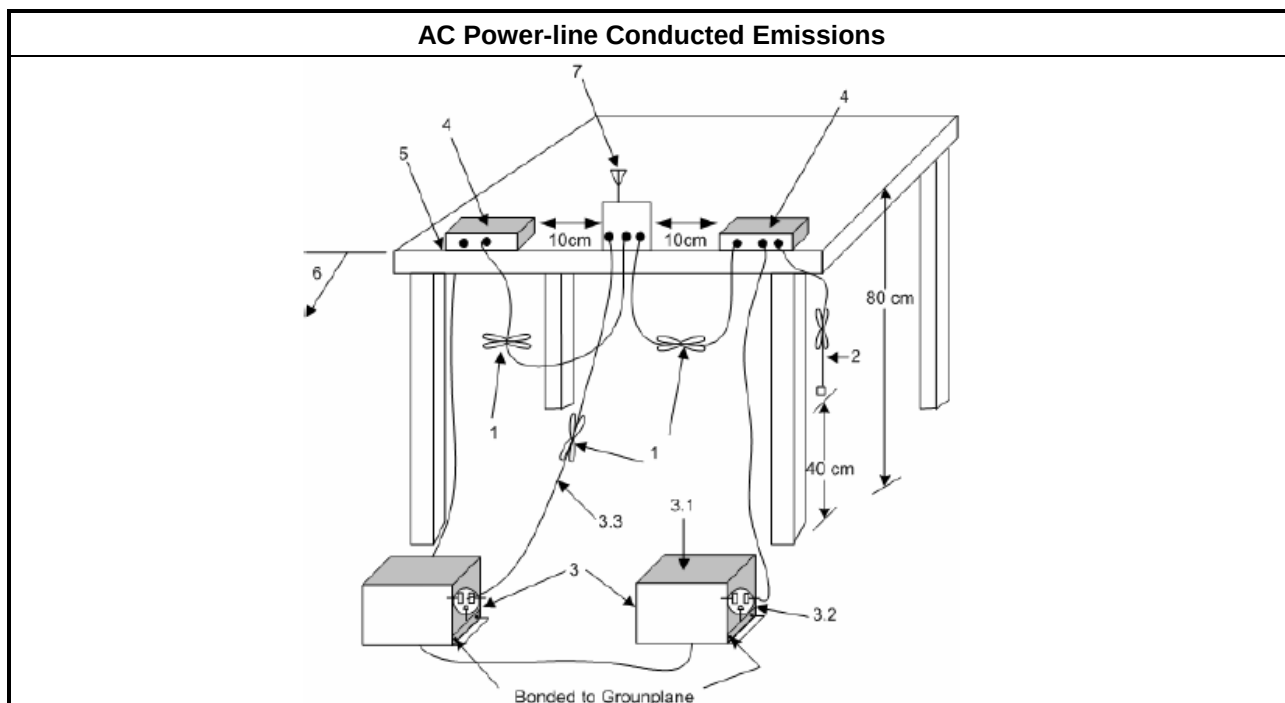
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 6.2 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	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 kHz).
N: Number of Hopping Frequencies; ChS: Hopping Channel Separation	

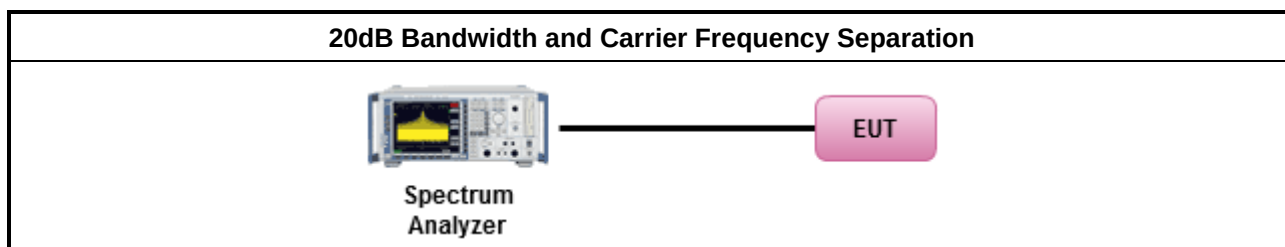
3.2.2 Measuring Instruments

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

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	
2400-2483.5 MHz Band:	
	$N \geq 75$; Power 30dBm; EIRP 36dBm
	$75 > N \geq 15$; Power 21dBm; EIRP 27dBm
N: Number of Hopping Frequencies	

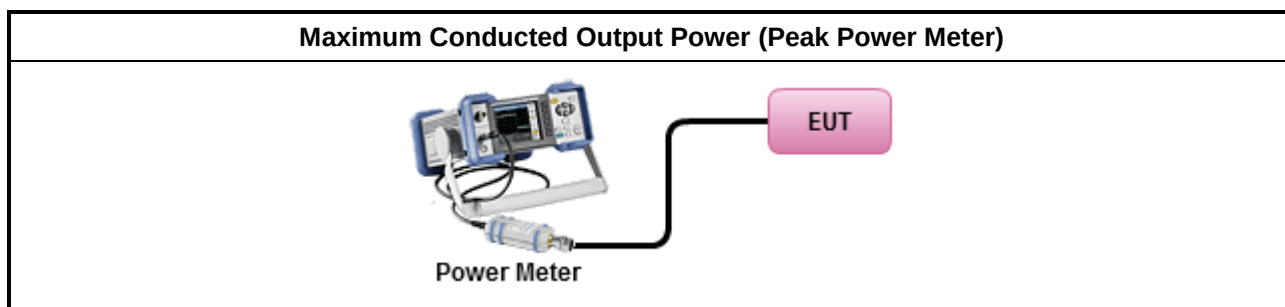
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
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	
2400-2483.5 MHz Band:	
	$N \geq 75$ and $ChS \geq MAX$ (20 dB bandwidth, 25 kHz).
	$75 > N \geq 15$ and $ChS \geq MAX$ (20 dB bandwidth 2/3, 25 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

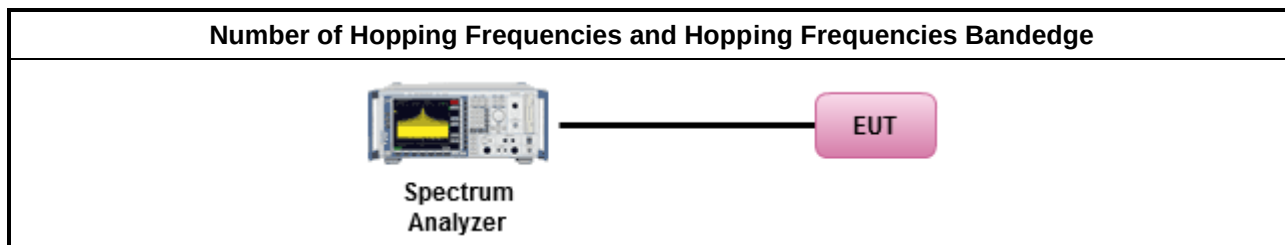
3.4.3 Measuring Instruments

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

3.4.4 Test Procedures

Test Method
Refer as ANSI C63.10-2013, clause 7.8.3 for number of hopping frequencies measurement.
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	
2400-2483.5 MHz Band:	
	$N \geq 75$; 0.4s in $N \times 0.4$ period
	$75 > N \geq 15$; 0.4s in $N \times 0.4$ period
N: Number of Hopping Frequencies	

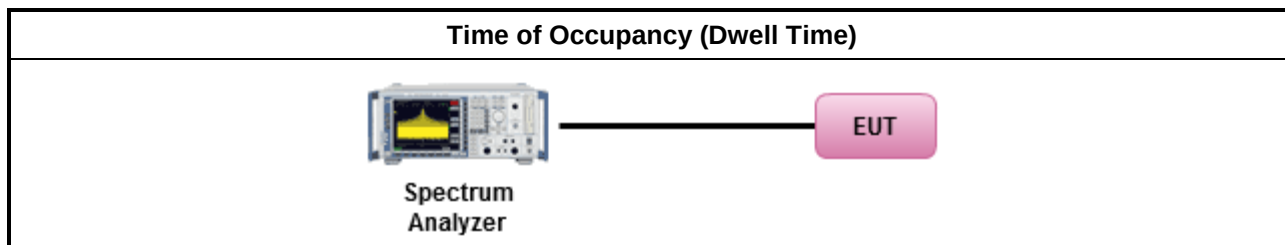
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
Refer as ANSI C63.10-2013, clause 7.8.4 for dwell time measurement.	
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.	
	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.	

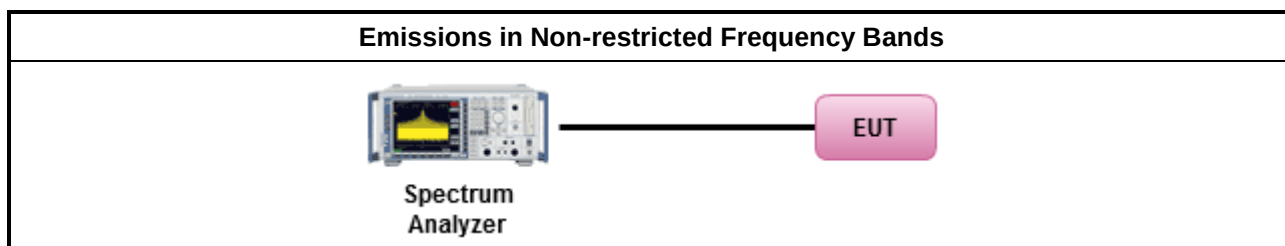
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

Test Method
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.

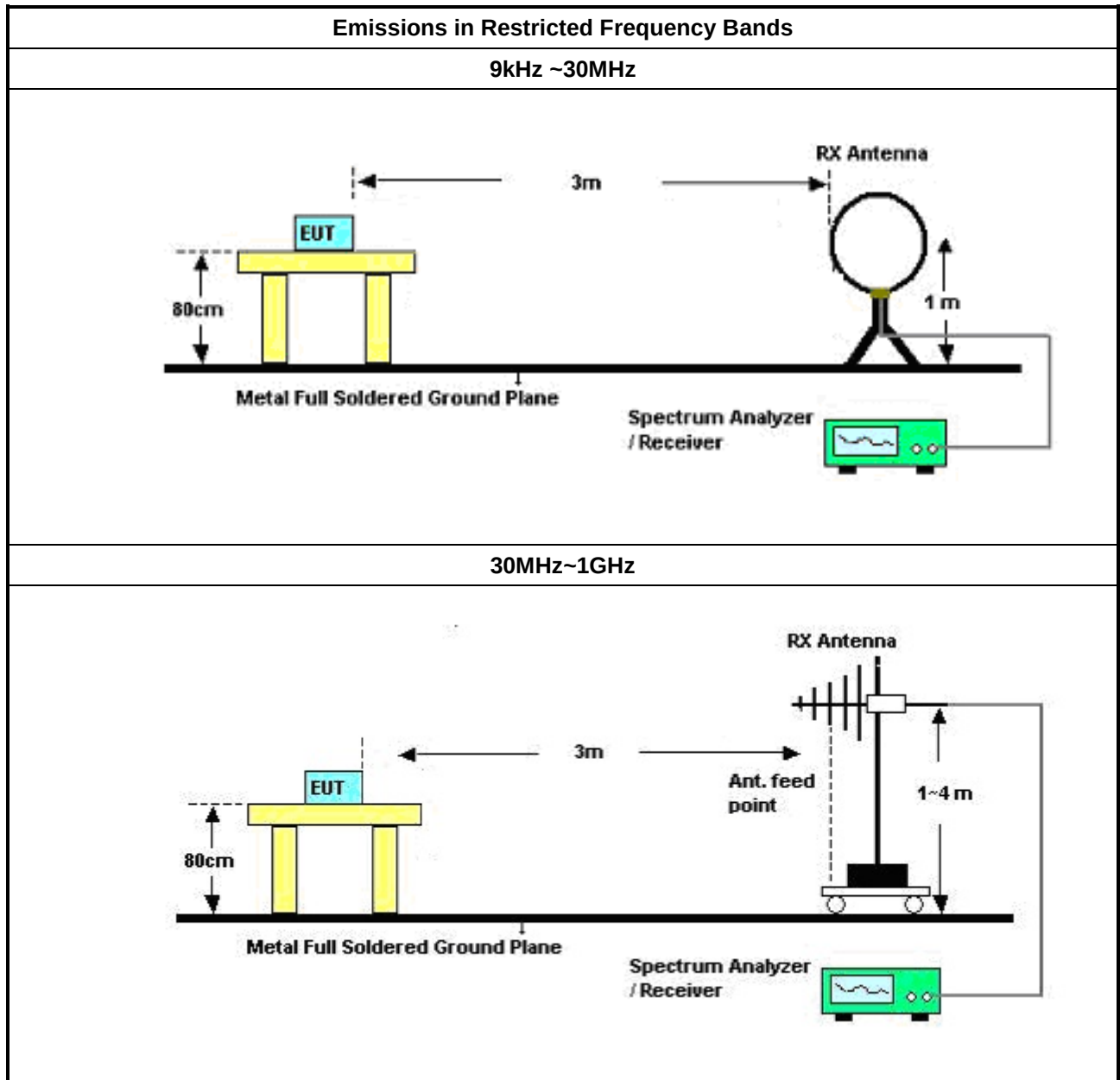
3.7.2 Measuring Instruments

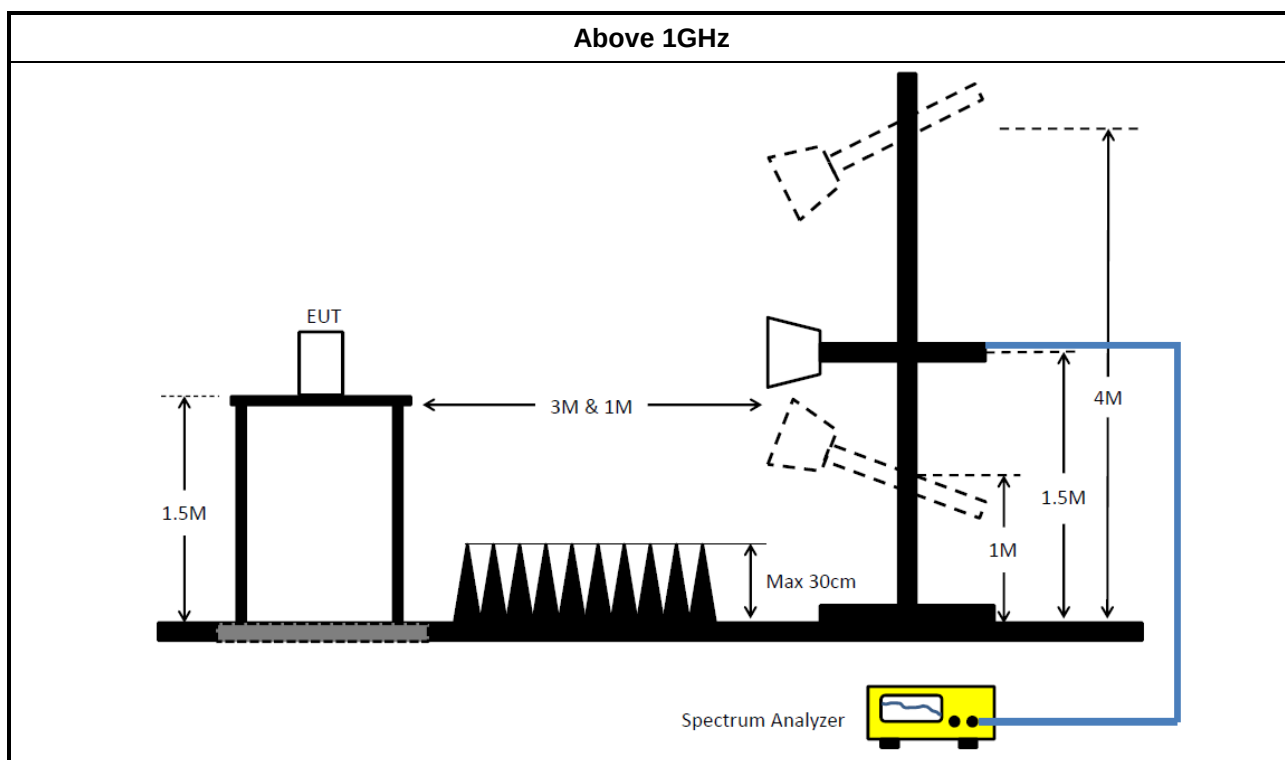
Refer a test equipment and calibration data table in this test report.

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	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	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

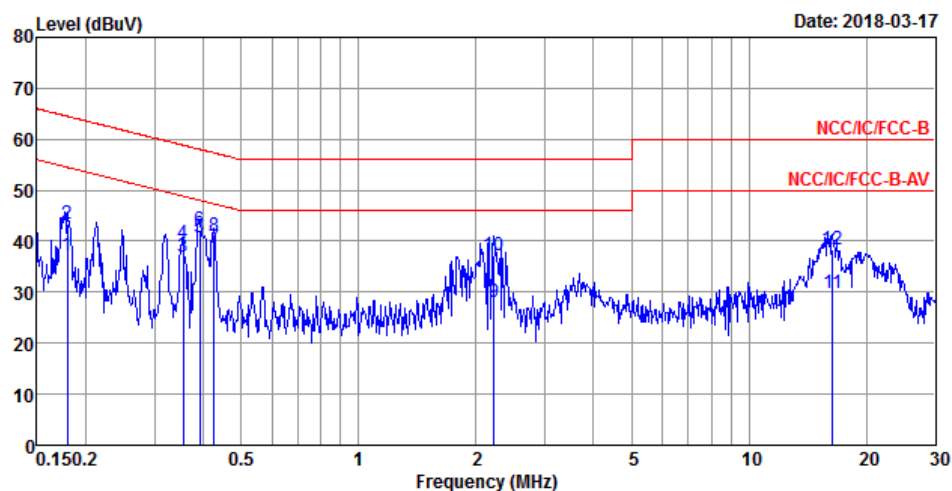
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100305	9KHz - 40GHz	12/Dec/2017	11/Dec/2018
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	20/Oct/2017	19/Oct/2018
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	27/Oct/2017	26/Oct/2018
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	28/Jun/2018
Amplifier	Ketsight	8449B	3008A02602	1GHz-26.5GHz	19/Sep/2017	18/Sep/2018
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	11/May/2017	10/May/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	18GHz-40GHz	06/Feb/2018	05/Feb/2019
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	09/Sep/2017	08/Sep/2018
Amplifier	MITEQ	TTA1840-35-HG	1864481	18GHz-40GHz	31/Aug/2017	30/Aug/2018
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	29/Dec/2017	28/Dec/2018
Power Sensor	Anritsu	MA2411B	1027452	300MHz ~ 40GHz	27/Feb/2018	26/Feb/2019
Power Meter	Anritsu	ML2495A	1124009	300MHz ~ 40GHz	27/Feb/2018	26/Feb/2019
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	27/Jul/2017	26/Jul/2018
Temp. and Humidity Chamber	Giant Force	GTH-225-40-CP-AR	MAA1611-005	-40 ~ 100°C	21/Nov/2016	20/Nov/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY677/3	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY678/3	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10717/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-1.5m	HUBER+SUHNER	SUCOFLEX_104	MY12586/4	30MHz ~ 26.5GHz	25/Aug/2017	24/Aug/2018

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode ; BT 2.1+EDR TX		



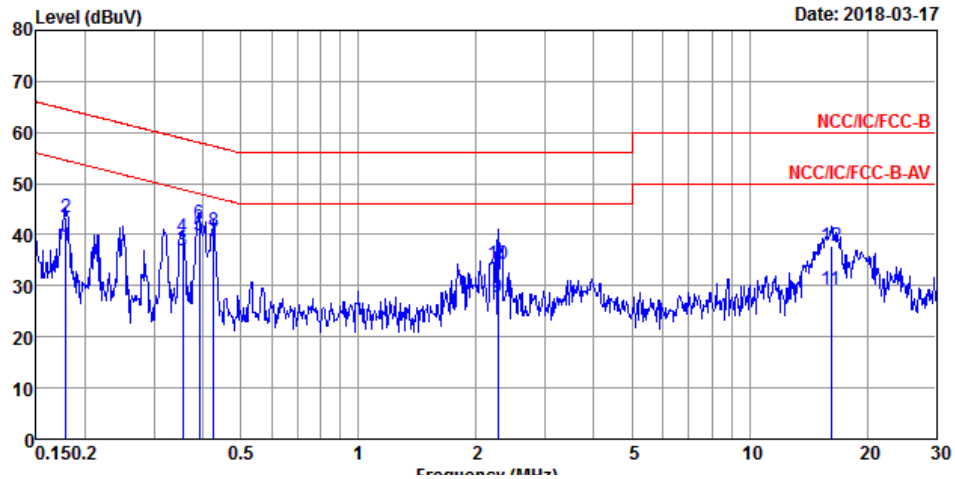
	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1796	37.34	-17.16	54.50	27.70	9.62	0.02	Average
2	0.1796	43.50	-21.00	64.50	33.86	9.62	0.02	QP
3	0.3558	37.02	-11.81	48.83	27.33	9.61	0.08	Average
4	0.3558	39.68	-19.15	58.83	29.99	9.61	0.08	QP
5 MAX	0.3914	40.71	-7.32	48.03	31.00	9.61	0.10	Average
6	0.3914	42.12	-15.91	58.03	32.41	9.61	0.10	QP
7	0.4260	38.62	-8.71	47.33	28.92	9.61	0.09	Average
8	0.4260	41.01	-16.32	57.33	31.31	9.61	0.09	QP
9	2.2249	28.15	-17.85	46.00	18.51	9.63	0.01	Average
10	2.2249	37.24	-18.76	56.00	27.60	9.63	0.01	QP
11	16.3985	29.95	-20.05	50.00	20.19	9.70	0.06	Average
12	16.3985	38.43	-21.57	60.00	28.67	9.70	0.06	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	Adapter Mode ; BT 2.1+EDR TX		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.1787	37.76	-16.79	54.55	28.12	9.62	0.02	Average
2	0.1787	43.44	-21.11	64.55	33.80	9.62	0.02	QP
3	0.3558	36.82	-12.01	48.83	27.13	9.61	0.08	Average
4	0.3558	39.47	-19.36	58.83	29.78	9.61	0.08	QP
5 MAX	0.3914	39.90	-8.13	48.03	30.19	9.61	0.10	Average
6	0.3914	42.12	-15.91	58.03	32.41	9.61	0.10	QP
7	0.4260	38.54	-8.79	47.33	28.84	9.61	0.09	Average
8	0.4260	40.83	-16.50	57.33	31.13	9.61	0.09	QP
9	2.2726	27.80	-18.20	46.00	18.16	9.62	0.02	Average
10	2.2726	34.37	-21.63	56.00	24.73	9.62	0.02	QP
11	16.1399	29.08	-20.92	50.00	19.40	9.63	0.05	Average
12	16.1399	37.65	-22.35	60.00	27.97	9.63	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)
2.4-2.4835GHz	-	-	-	-	-
BT-BR(1Mbps)	920k	898.301k	898KF1D	917.5k	883.308k
BT-EDR(2Mbps)	1.341M	1.229M	1M23G1D	1.338M	1.222M
BT-EDR(3Mbps)	1.308M	1.228M	1M23G1D	1.289M	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;

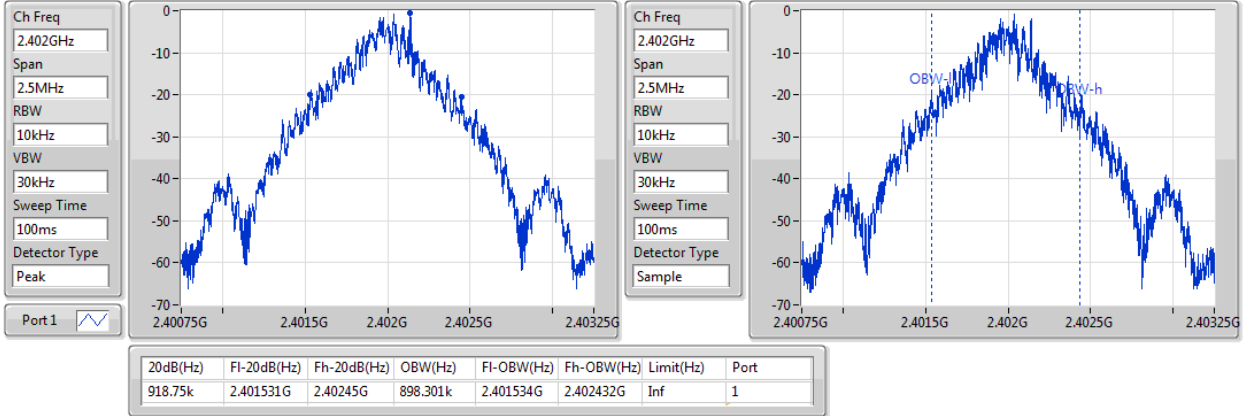
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	918.75k	898.301k
2441MHz_TnomVnom	Pass	Inf	920k	888.306k
2480MHz_TnomVnom	Pass	Inf	917.5k	883.308k
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.338M	1.222M
2441MHz_TnomVnom	Pass	Inf	1.338M	1.226M
2480MHz_TnomVnom	Pass	Inf	1.341M	1.229M
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	Inf	1.289M	1.228M
2441MHz_TnomVnom	Pass	Inf	1.308M	1.223M
2480MHz_TnomVnom	Pass	Inf	1.306M	1.226M

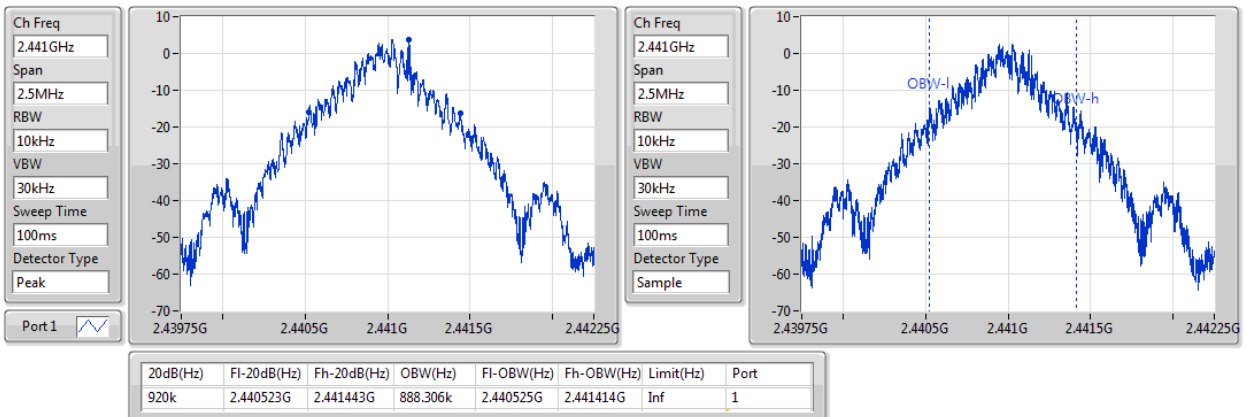
Port X-N dB = Port X 20dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

BT-BR(1Mbps)
EBW
2402MHz

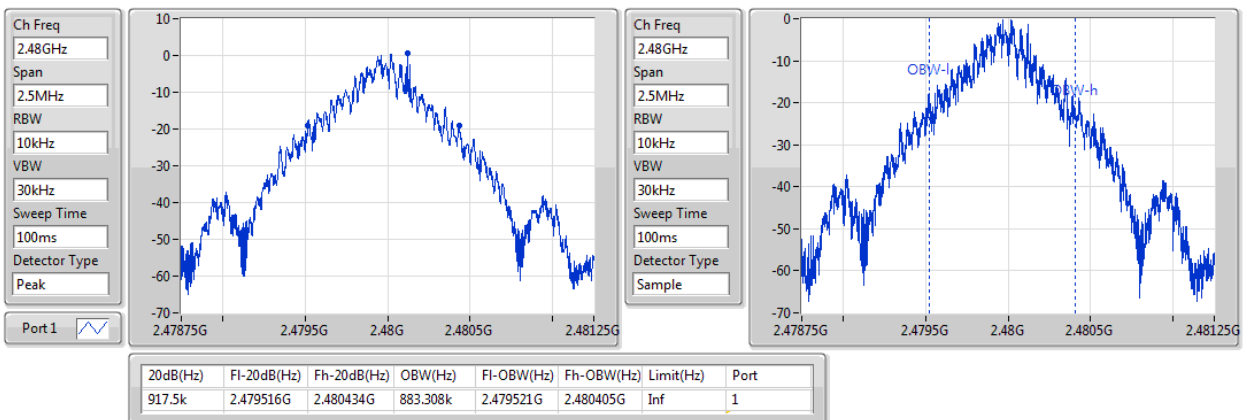
12/03/2018


BT-BR(1Mbps)
EBW
2441MHz

12/03/2018

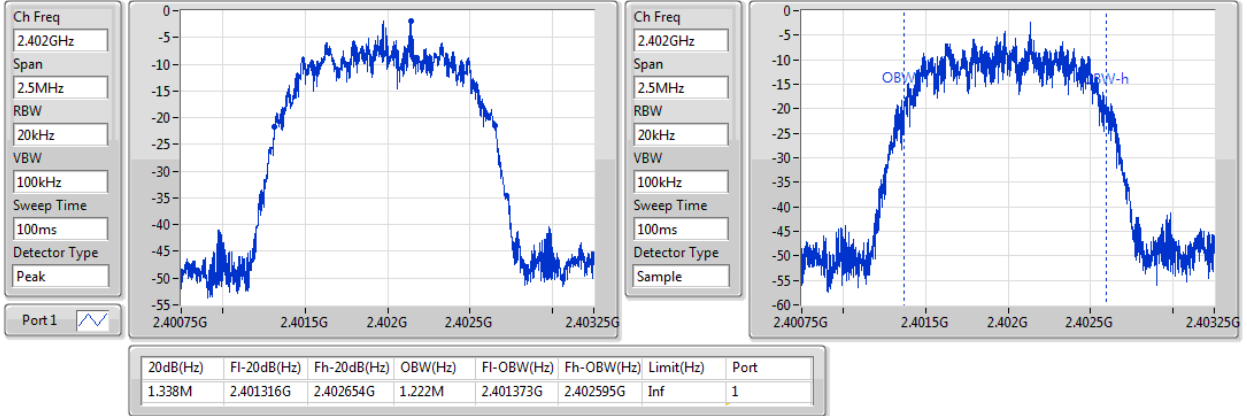

BT-BR(1Mbps)
EBW
2480MHz

12/03/2018

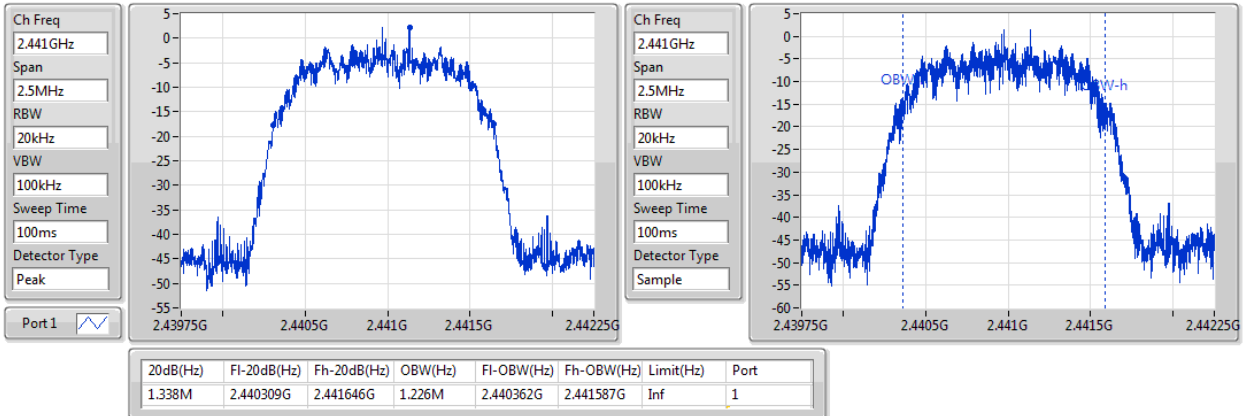


BT-EDR(2Mbps)
EBW
2402MHz

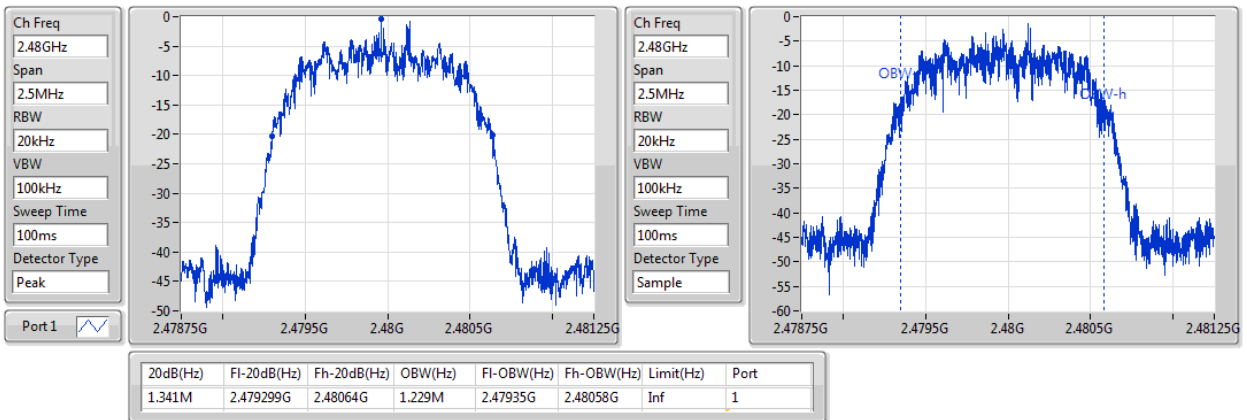
12/03/2018


BT-EDR(2Mbps)
EBW
2441MHz

12/03/2018

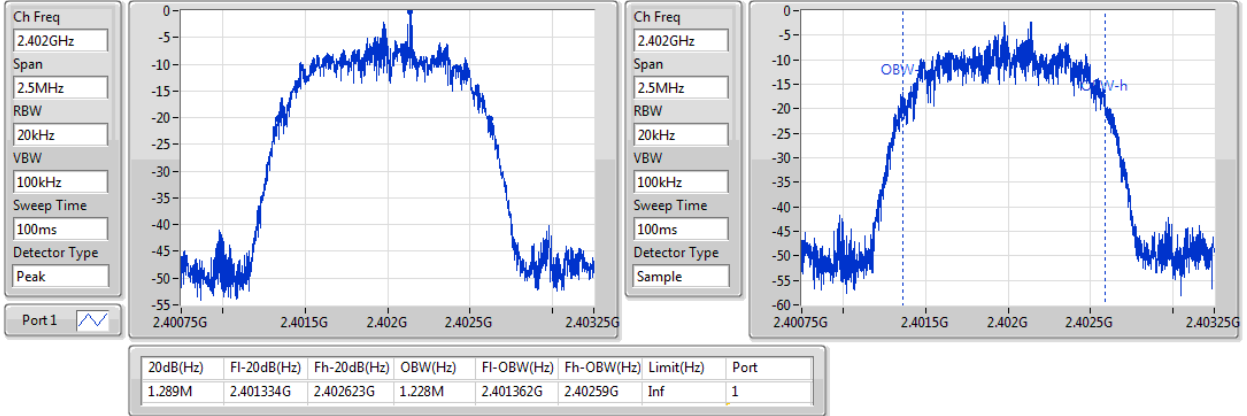

BT-EDR(2Mbps)
EBW
2480MHz

12/03/2018

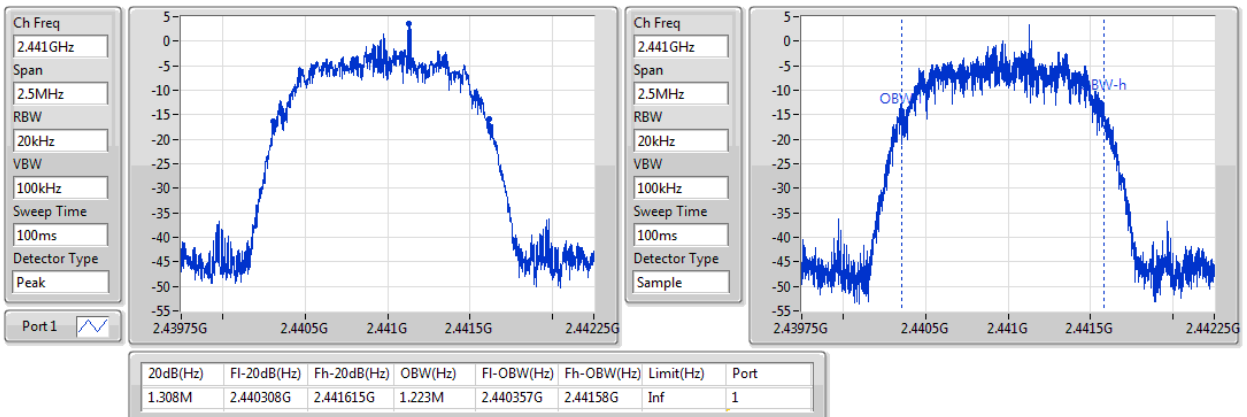


BT-EDR(3Mbps)
EBW
2402MHz

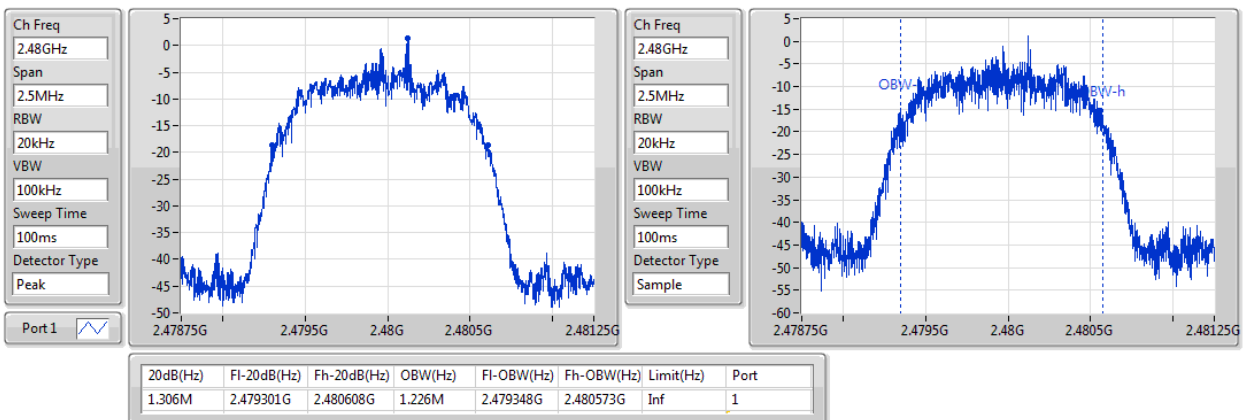
12/03/2018


BT-EDR(3Mbps)
EBW
2441MHz

12/03/2018


BT-EDR(3Mbps)
EBW
2480MHz

12/03/2018



Summary

Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.002M	999k
BT-EDR(3Mbps)	1.0005M	999k

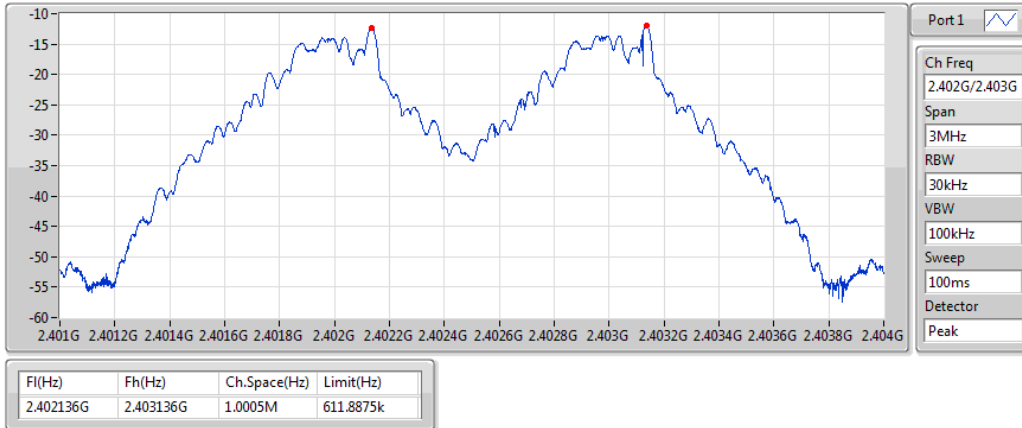
Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402136G	2.403136G	1.0005M	611.8875k
2441MHz_TnomVnom	Pass	2.441128G	2.442127G	999k	612.72k
2480MHz_TnomVnom	Pass	2.479121G	2.48012G	999k	611.055k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40214G	2.403139G	999k	891.108k
2441MHz_TnomVnom	Pass	2.441131G	2.44213G	999k	891.108k
2480MHz_TnomVnom	Pass	2.479124G	2.480126G	1.002M	893.106k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402136G	2.403136G	1.0005M	858.474k
2441MHz_TnomVnom	Pass	2.441128G	2.442129G	1.0005M	871.128k
2480MHz_TnomVnom	Pass	2.479122G	2.480121G	999k	869.796k

BT-BR(1Mbps)

Channel Separation

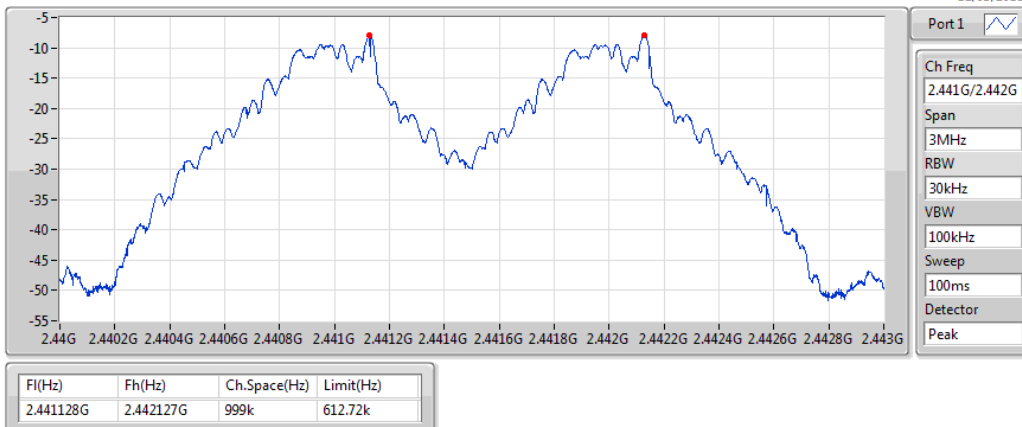
2.402G/2.403GHz



BT-BR(1Mbps)

Channel Separation

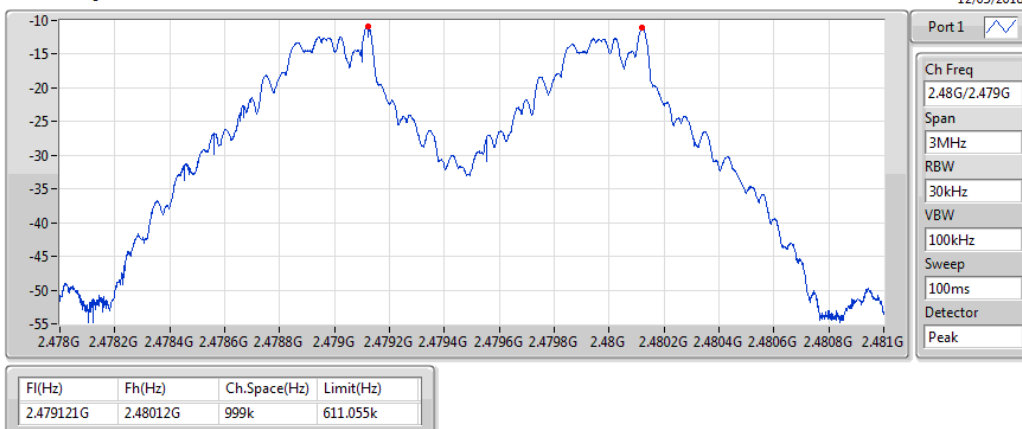
2.441G/2.442GHz



BT-BR(1Mbps)

Channel Separation

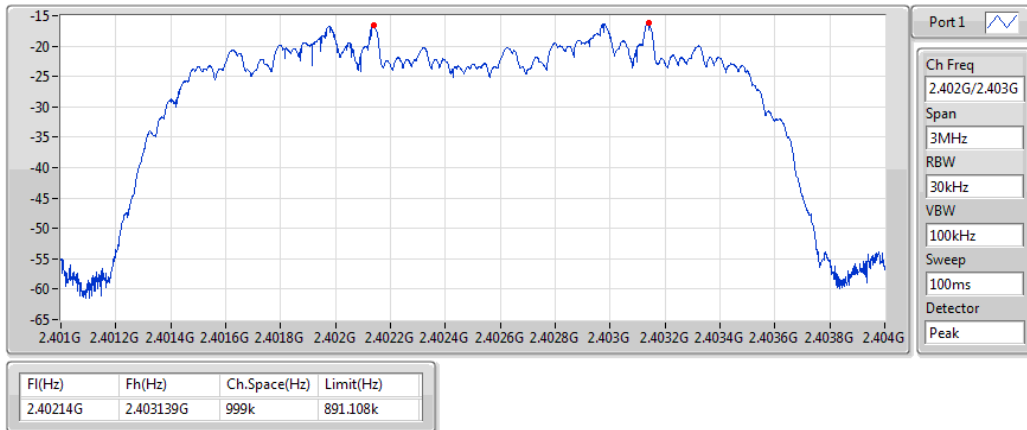
2.48G/2.479GHz



BT-EDR(2Mbps)

Channel Separation

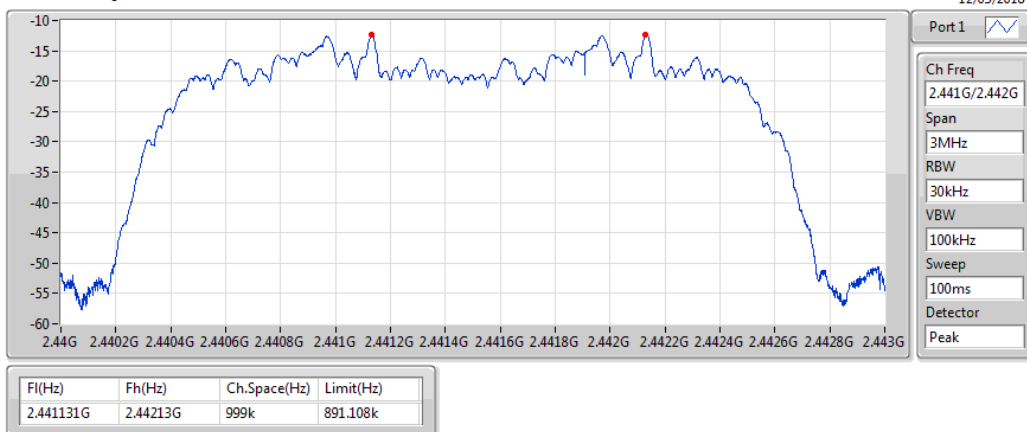
2.402G/2.403GHz



BT-EDR(2Mbps)

Channel Separation

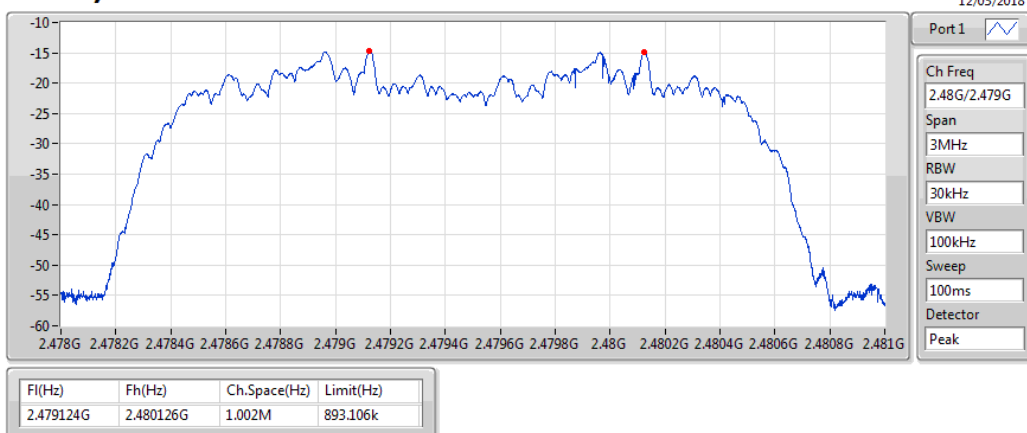
2.441G/2.442GHz



BT-EDR(2Mbps)

Channel Separation

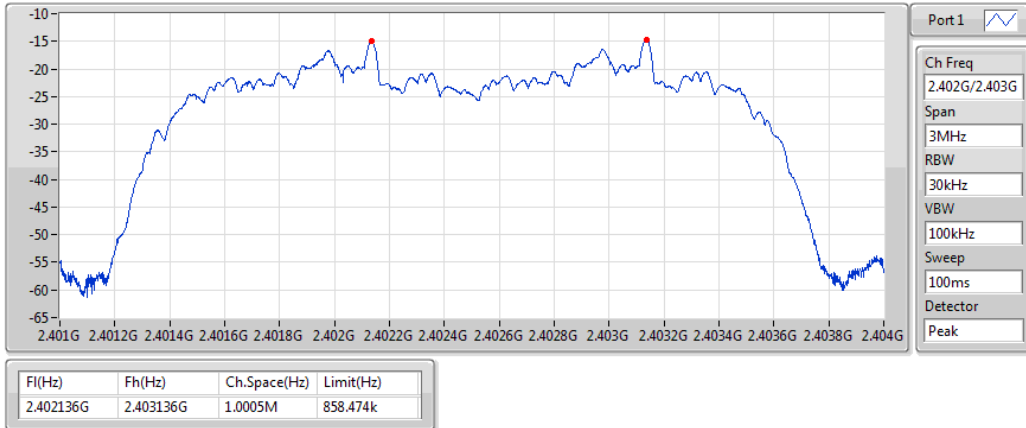
2.48G/2.479GHz



BT-EDR(3Mbps)

Channel Separation

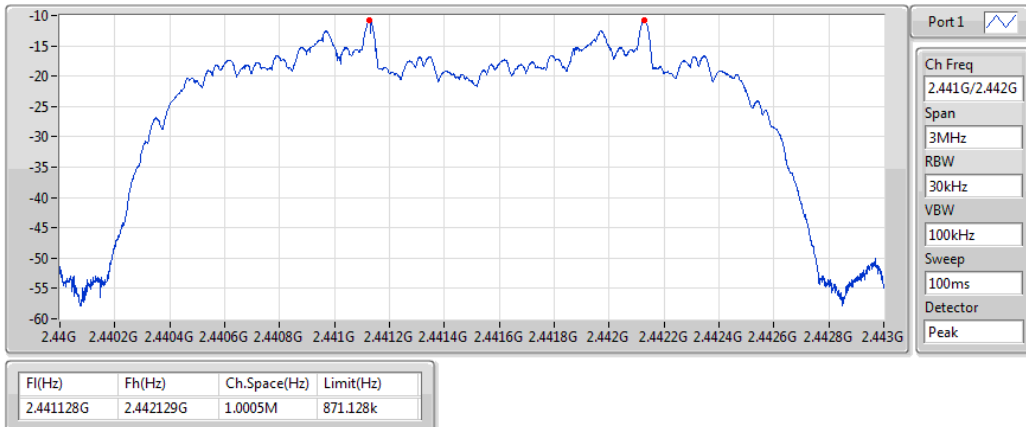
2.402G/2.403GHz



BT-EDR(3Mbps)

Channel Separation

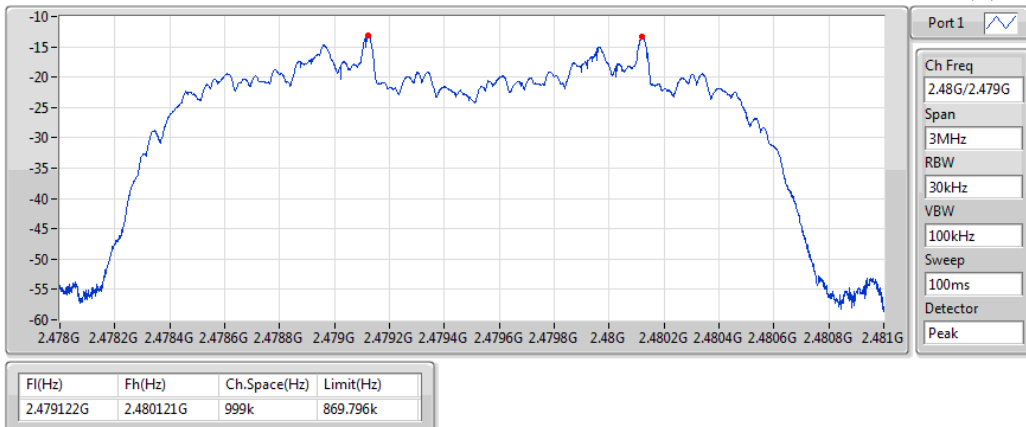
2.441G/2.442GHz



BT-EDR(3Mbps)

Channel Separation

2.48G/2.479GHz



Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.64	0.00920
BT-EDR(2Mbps)	9.13	0.00818
BT-EDR(3Mbps)	9.28	0.00847

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	5.31	20.98
2441MHz_TnomVnom	Pass	6.02	9.64	20.98
2480MHz_TnomVnom	Pass	6.02	6.49	20.98
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	5.07	20.98
2441MHz_TnomVnom	Pass	6.02	9.13	20.98
2480MHz_TnomVnom	Pass	6.02	6.53	20.98
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	5.31	20.98
2441MHz_TnomVnom	Pass	6.02	9.28	20.98
2480MHz_TnomVnom	Pass	6.02	6.58	20.98

Summary

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	9.37	0.00865
BT-EDR(2Mbps)	6.54	0.00451
BT-EDR(3Mbps)	6.58	0.00455

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	4.87	20.98
2441MHz_TnomVnom	Pass	6.02	9.37	20.98
2480MHz_TnomVnom	Pass	6.02	6.13	20.98
BT-EDR(2Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	2.43	20.98
2441MHz_TnomVnom	Pass	6.02	6.54	20.98
2480MHz_TnomVnom	Pass	6.02	4.08	20.98
BT-EDR(3Mbps)	-	-	-	-
2402MHz_TnomVnom	Pass	6.02	2.40	20.98
2441MHz_TnomVnom	Pass	6.02	6.58	20.98
2480MHz_TnomVnom	Pass	6.02	4.04	20.98

Summary

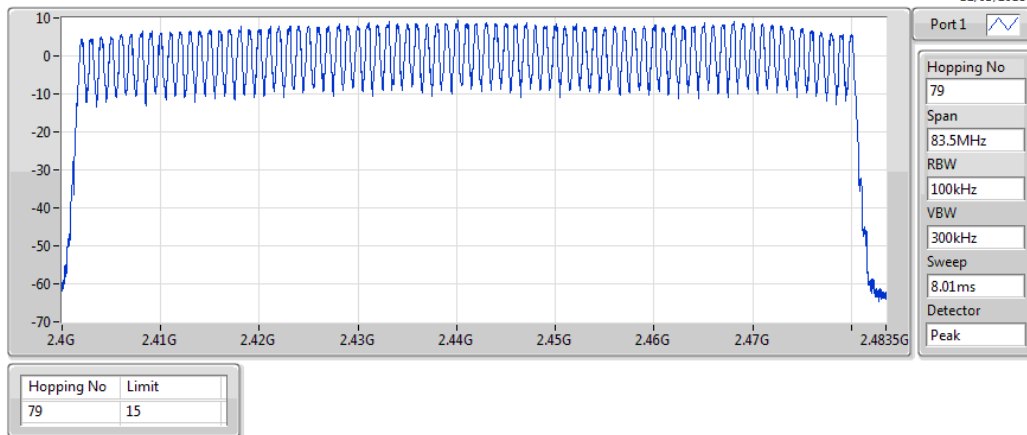
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

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

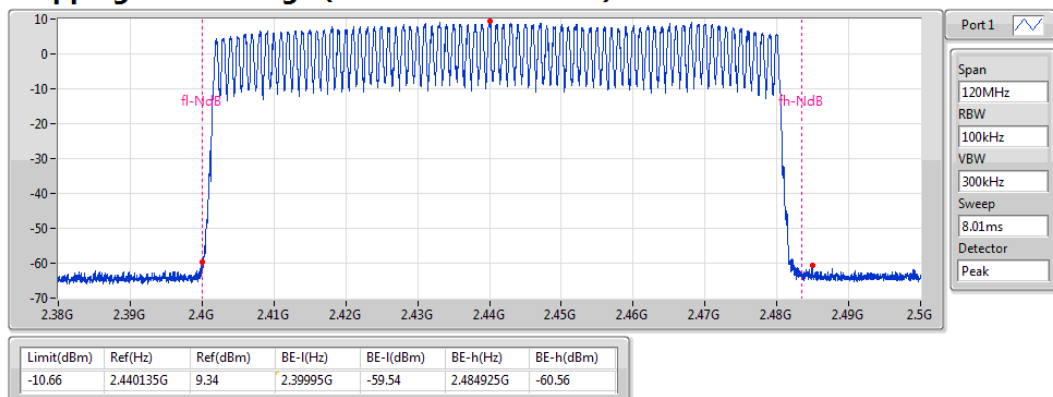
BT-BR(1Mbps) 2441MHz

Hopping Ch



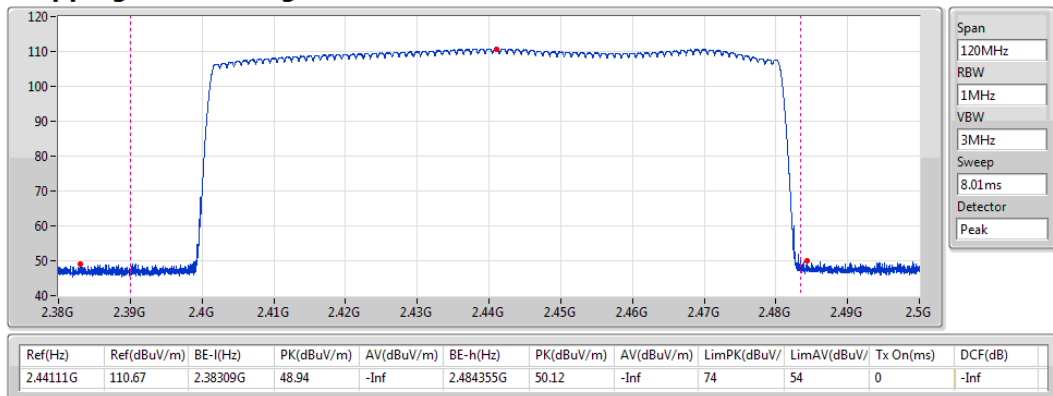
BT-BR(1Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



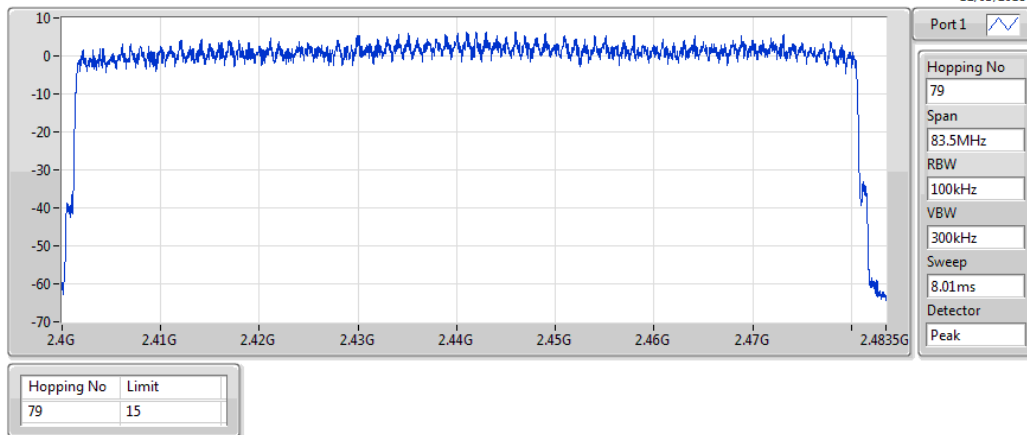
BT-BR(1Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



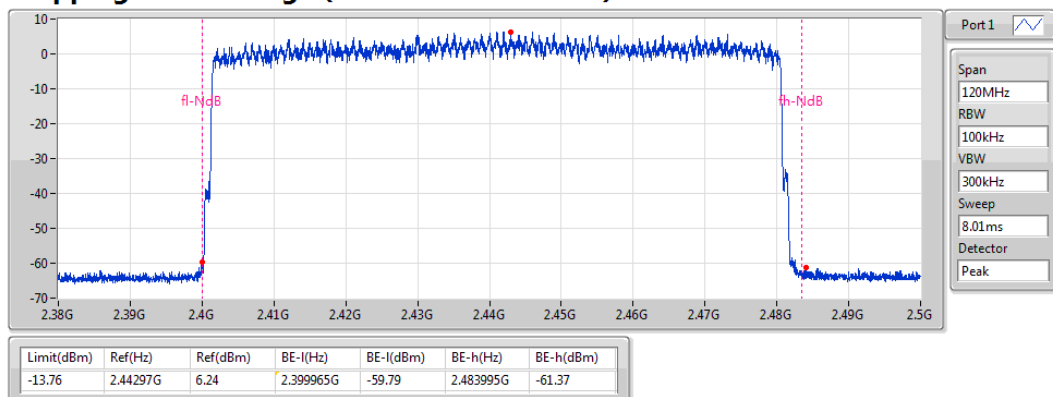
BT-EDR(2Mbps) 2441MHz

Hopping Ch



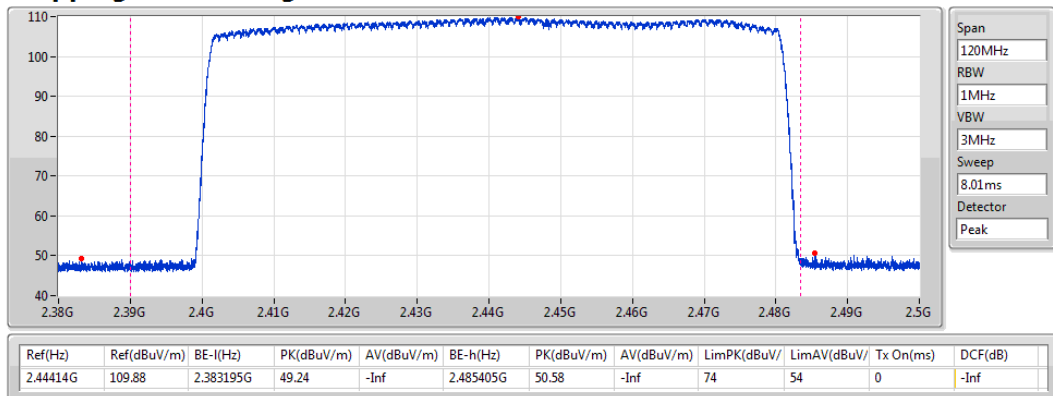
BT-EDR(2Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



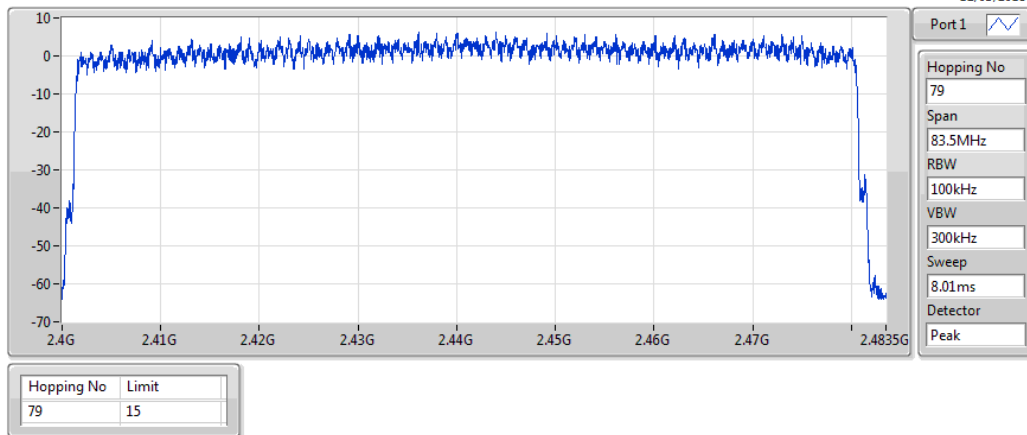
BT-EDR(2Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



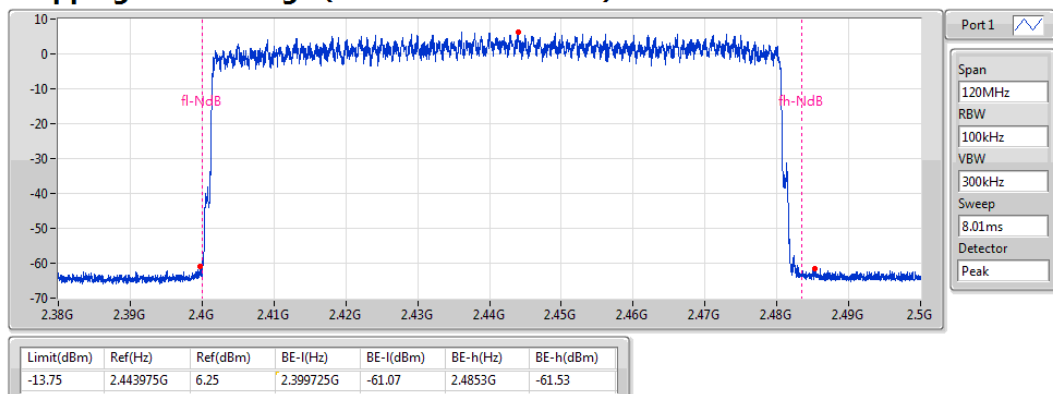
BT-EDR(3Mbps) 2441MHz

Hopping Ch



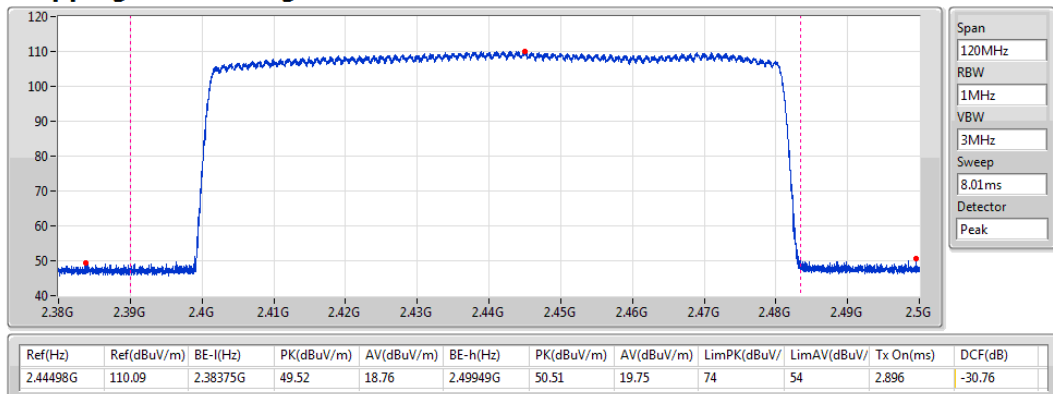
BT-EDR(3Mbps) 2441MHz

Hopping Ch Bandedge (Non-restricted Band)



BT-EDR(3Mbps) 2441MHz

Hopping Ch Bandedge (Restricted Band)



Summary

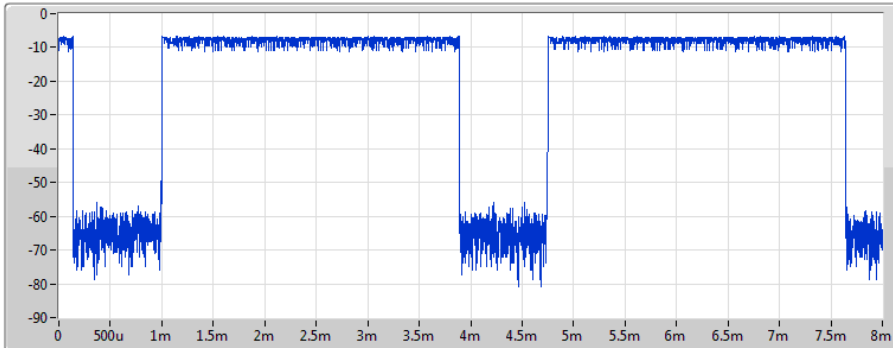
Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.2872m
BT-EDR(2Mbps)	308.607m
BT-EDR(3Mbps)	308.607m

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.2872m	400m	2.892m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.607m	400m	2.895m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz_TnomVnom	Pass	31.6	308.607m	400m	2.895m

BT-BR(1Mbps)

2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.2872m	400m	2.892m

Dwell

12/03/2018

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

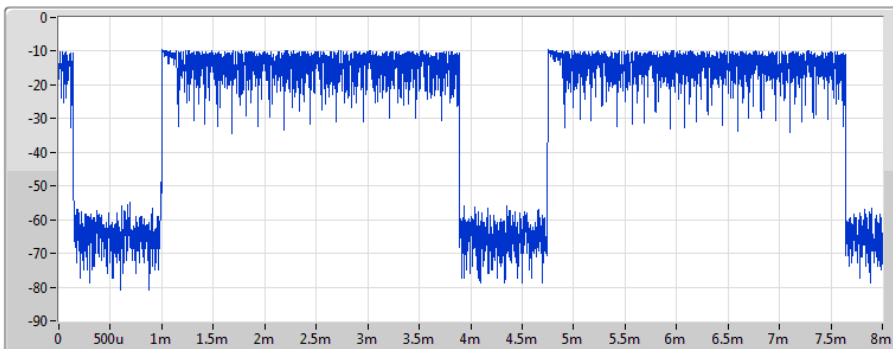
VBW
1MHz

Sweep Time
8ms

TX Time
2.892ms

BT-EDR(2Mbps)

2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.607m	400m	2.895m

Dwell

12/03/2018

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

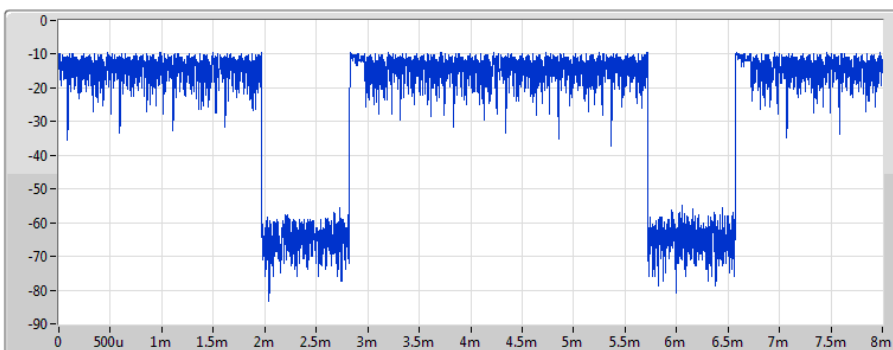
VBW
1MHz

Sweep Time
8ms

TX Time
2.895ms

BT-EDR(3Mbps)

2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.607m	400m	2.895m

Dwell

12/03/2018

Port 1 

Ch Freq
2.441GHz

RBW
300kHz

VBW
1MHz

Sweep Time
8ms

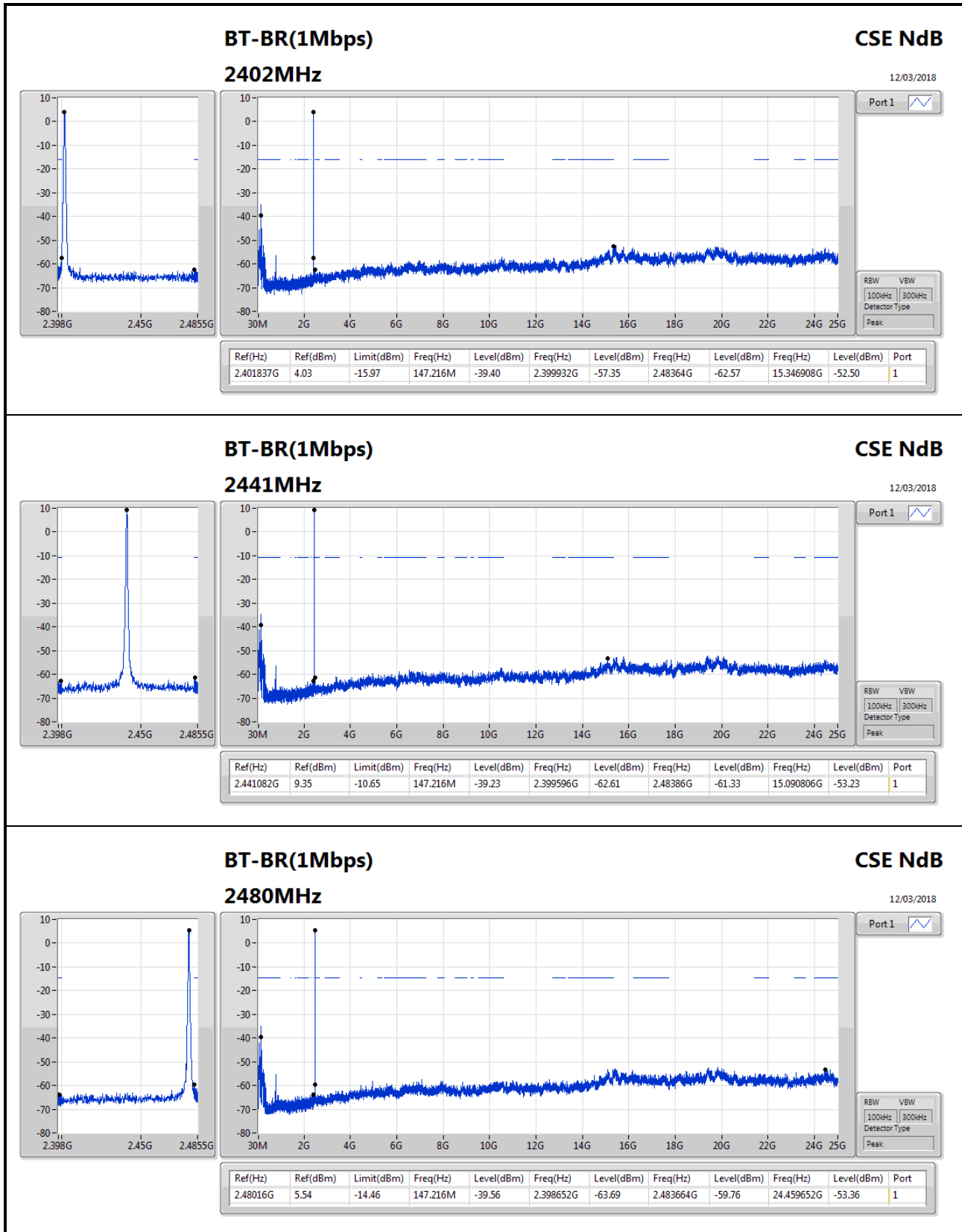
TX Time
2.895ms

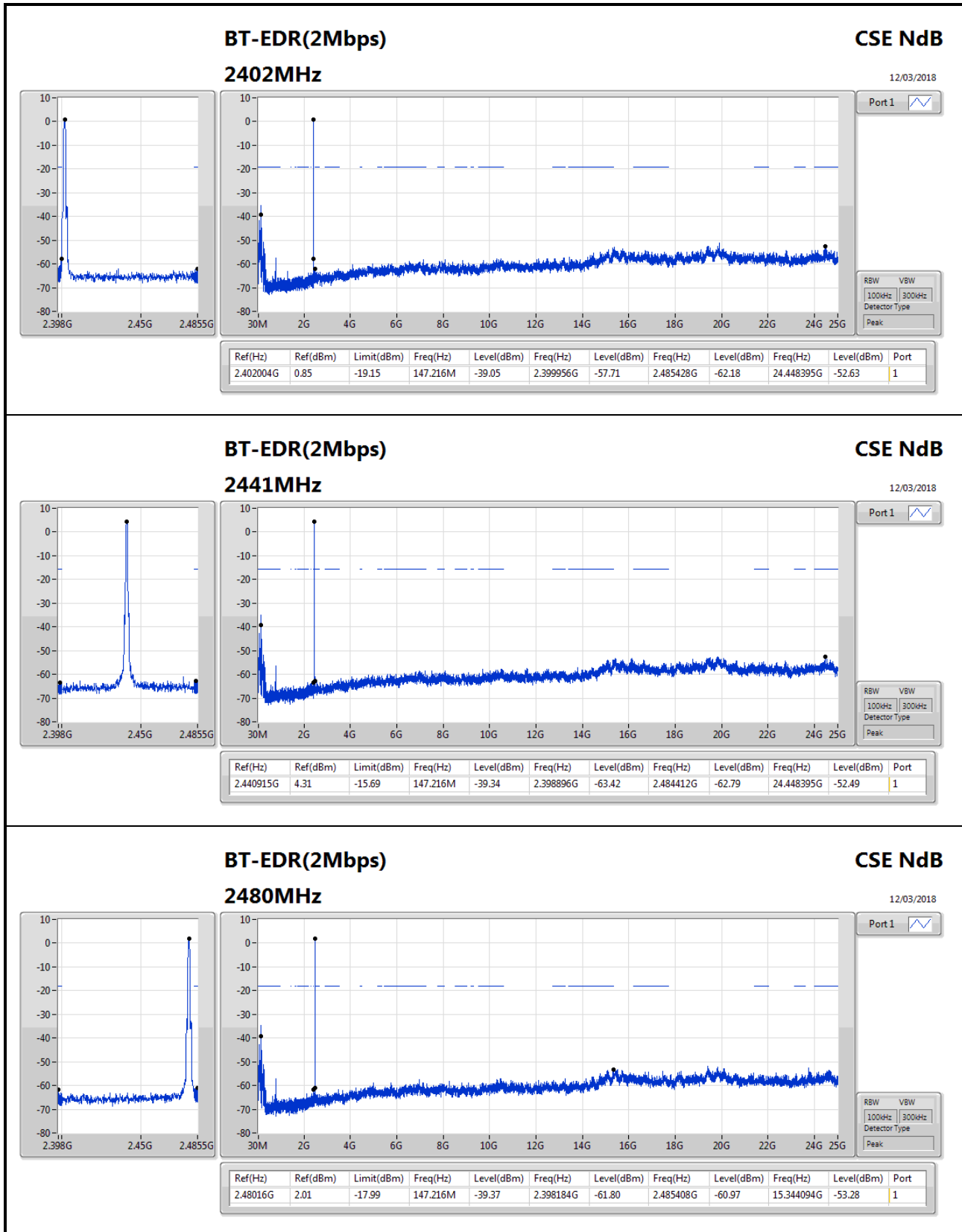
Summary

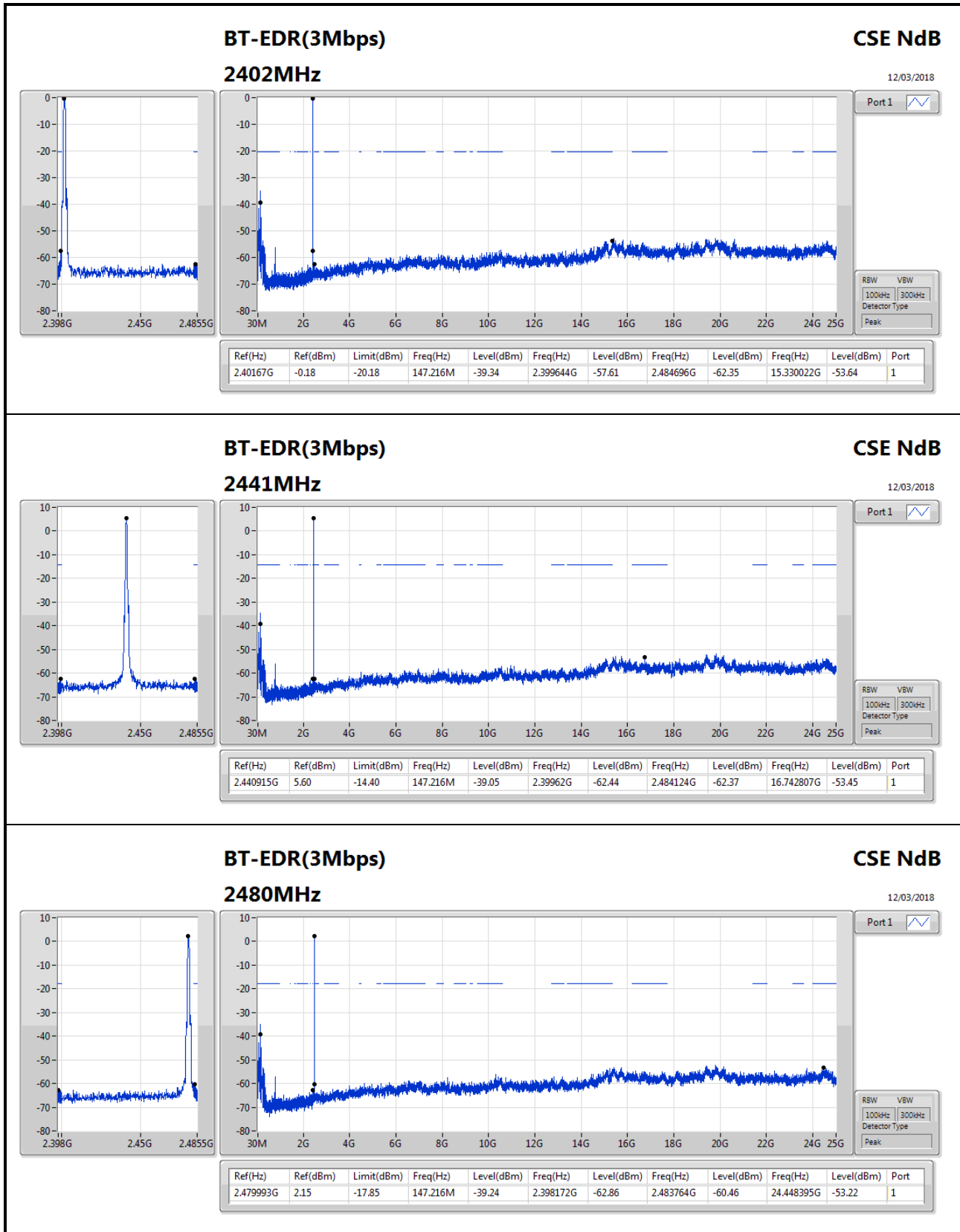
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.401837G	4.03	-15.97	147.216M	-39.40	2.399932G	-57.35	2.48364G	-62.57	15.346908G	-52.50	1
BT-EDR(2Mbps)	Pass	2.402004G	0.85	-19.15	147.216M	-39.05	2.399956G	-57.71	2.485428G	-62.18	24.448395G	-52.63	1
BT-EDR(3Mbps)	Pass	2.40167G	-0.18	-20.18	147.216M	-39.34	2.399644G	-57.61	2.484696G	-62.35	15.330022G	-53.64	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	2.401837G	4.03	-15.97	147.216M	-39.40	2.399932G	-57.35	2.48364G	-62.57	15.346908G	-52.50	1
2441MHz_TnomVnom	Pass	2.441082G	9.35	-10.65	147.216M	-39.23	2.399596G	-62.61	2.48386G	-61.33	15.090806G	-53.23	1
2480MHz_TnomVnom	Pass	2.48016G	5.54	-14.46	147.216M	-39.56	2.398652G	-63.69	2.483664G	-59.76	24.459652G	-53.36	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.402004G	0.85	-19.15	147.216M	-39.05	2.399956G	-57.71	2.485428G	-62.18	24.448395G	-52.63	1
2441MHz_TnomVnom	Pass	2.440915G	4.31	-15.69	147.216M	-39.34	2.398896G	-63.42	2.484412G	-62.79	24.448395G	-52.49	1
2480MHz_TnomVnom	Pass	2.48016G	2.01	-17.99	147.216M	-39.37	2.398184G	-61.80	2.485408G	-60.97	15.344094G	-53.28	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz_TnomVnom	Pass	2.40167G	-0.18	-20.18	147.216M	-39.34	2.399644G	-57.61	2.484696G	-62.35	15.330022G	-53.64	1
2441MHz_TnomVnom	Pass	2.440915G	5.60	-14.40	147.216M	-39.05	2.39962G	-62.44	2.484124G	-62.37	16.742807G	-53.45	1
2480MHz_TnomVnom	Pass	2.479993G	2.15	-17.85	147.216M	-39.24	2.398172G	-62.86	2.483764G	-60.46	24.448395G	-53.22	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	355.92M	42.82	46.00	-3.18	-10.43	3	Horizontal	0	1.00	-

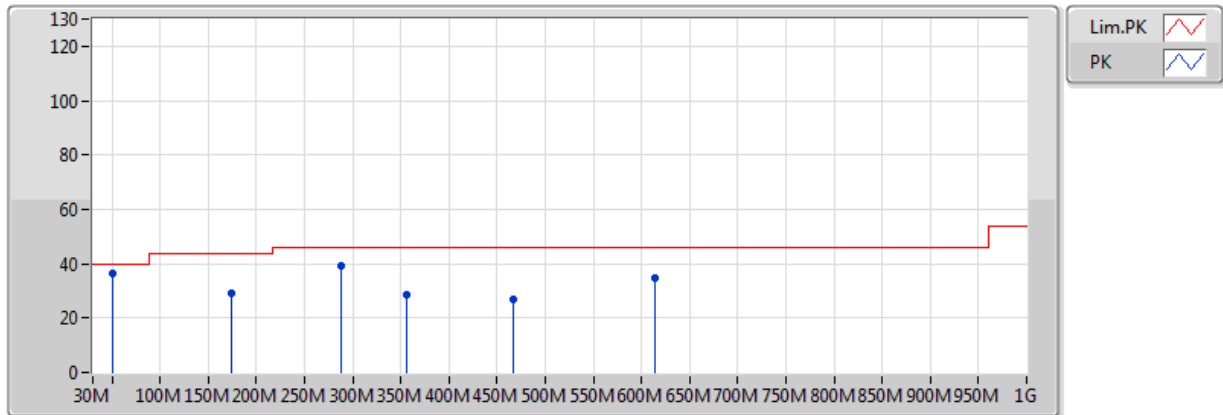
Result

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	78.5M	34.70	40.00	-5.30	-12.10	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	159.98M	38.28	43.50	-5.22	-11.61	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	222.06M	40.90	46.00	-5.10	-11.24	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	355.92M	42.82	46.00	-3.18	-10.43	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	443.22M	30.74	46.00	-15.26	-9.91	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	515M	27.19	46.00	-18.81	-9.48	3	Horizontal	0	1.00	-
2441MHz	Pass	PK	51.34M	36.52	40.00	-3.48	-12.26	3	Vertical	360	1.00	-
2441MHz	Pass	PK	173.56M	29.05	43.50	-14.45	-11.53	3	Vertical	360	1.00	-
2441MHz	Pass	PK	288.02M	39.10	46.00	-6.90	-10.84	3	Vertical	360	1.00	-
2441MHz	Pass	PK	355.92M	28.78	46.00	-17.22	-10.43	3	Vertical	360	1.00	-
2441MHz	Pass	PK	466.5M	26.69	46.00	-19.31	-9.77	3	Vertical	360	1.00	-
2441MHz	Pass	PK	613.94M	34.68	46.00	-11.32	-8.89	3	Vertical	360	1.00	-

BT-BR(1Mbps)

2441MHz_adapter

08/03/2018

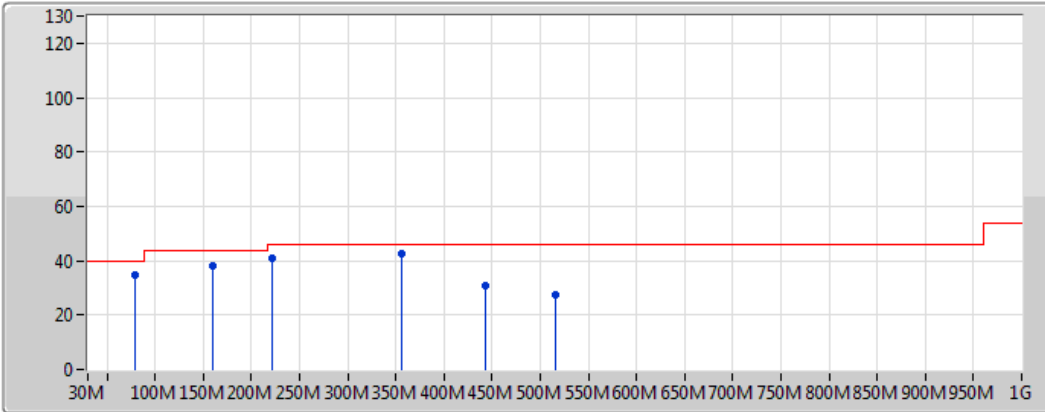


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	51.34M	36.52	40.00	-3.48	-12.26	3	Vertical	360	1.00	-	48.78	22.50	3.25	38.01
PK	173.56M	29.05	43.50	-14.45	-11.53	3	Vertical	360	1.00	-	40.58	22.75	3.50	37.78
PK	288.02M	39.10	46.00	-6.90	-10.84	3	Vertical	360	1.00	-	49.94	22.98	3.74	37.56
PK	355.92M	28.78	46.00	-17.22	-10.43	3	Vertical	360	1.00	-	39.21	23.11	3.89	37.43
PK	466.5M	26.69	46.00	-19.31	-9.77	3	Vertical	360	1.00	-	36.46	23.33	4.12	37.22
PK	613.94M	34.68	46.00	-11.32	-8.89	3	Vertical	360	1.00	-	43.57	23.63	4.43	36.94

BT-BR(1Mbps)

2441MHz_adapter

08/03/2018



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	78.5M	34.70	40.00	-5.30	-12.10	3	Horizontal	0	1.00	-	46.80	22.56	3.30	37.96
PK	159.98M	38.28	43.50	-5.22	-11.61	3	Horizontal	0	1.00	-	49.89	22.72	3.48	37.81
PK	222.06M	40.90	46.00	-5.10	-11.24	3	Horizontal	0	1.00	-	52.14	22.84	3.61	37.69
PK	355.92M	42.82	46.00	-3.18	-10.43	3	Horizontal	0	1.00	-	53.25	23.11	3.89	37.43
PK	443.22M	30.74	46.00	-15.26	-9.91	3	Horizontal	0	1.00	-	40.65	23.29	4.07	37.27
PK	515M	27.19	46.00	-18.81	-9.48	3	Horizontal	0	1.00	-	36.67	23.43	4.22	37.13

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	2.483502G	71.42	74.00	-2.58	35.36	3	Horizontal	163	3.38	-
BT-EDR(2Mbps)	Pass	AV	2.4998G	51.39	54.00	-2.61	35.44	3	Vertical	100	3.55	-
BT-EDR(3Mbps)	Pass	AV	2.4998G	49.70	54.00	-4.30	35.44	3	Vertical	99	3.54	-

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	2.3774G	49.92	54.00	-4.08	34.87	3	Horizontal	162	3.49	-
2402MHz	Pass	AV	2.402G	97.86	Inf	-Inf	34.98	3	Horizontal	162	3.49	-
2402MHz	Pass	PK	2.3764G	60.88	74.00	-13.12	34.86	3	Horizontal	162	3.49	-
2402MHz	Pass	PK	2.4022G	99.15	Inf	-Inf	34.98	3	Horizontal	162	3.49	-
2402MHz	Pass	AV	2.3826G	49.96	54.00	-4.04	34.89	3	Vertical	114	3.29	-
2402MHz	Pass	AV	2.402G	93.34	Inf	-Inf	34.98	3	Vertical	114	3.29	-
2402MHz	Pass	PK	2.3598G	61.52	74.00	-12.48	34.78	3	Vertical	114	3.29	-
2402MHz	Pass	PK	2.4022G	94.53	Inf	-Inf	34.98	3	Vertical	114	3.29	-
2402MHz	Pass	AV	4.79434G	36.68	54.00	-17.32	6.26	3	Horizontal	357	1.50	-
2402MHz	Pass	PK	4.79242G	49.23	74.00	-24.77	6.25	3	Horizontal	357	1.50	-
2402MHz	Pass	AV	4.7968G	36.92	54.00	-17.08	6.26	3	Vertical	34	1.50	-
2402MHz	Pass	PK	4.8094G	48.59	74.00	-25.41	6.29	3	Vertical	34	1.50	-
2441MHz	Pass	AV	2.3894G	49.97	54.00	-4.03	34.92	3	Horizontal	162	3.50	-
2441MHz	Pass	AV	2.441G	105.64	Inf	-Inf	35.16	3	Horizontal	162	3.50	-
2441MHz	Pass	AV	2.4998G	50.92	54.00	-3.08	35.44	3	Horizontal	162	3.50	-
2441MHz	Pass	PK	2.3674G	61.42	74.00	-12.58	34.82	3	Horizontal	162	3.50	-
2441MHz	Pass	PK	2.4406G	106.91	Inf	-Inf	35.16	3	Horizontal	162	3.50	-
2441MHz	Pass	PK	2.4954G	62.03	74.00	-11.97	35.42	3	Horizontal	162	3.50	-
2441MHz	Pass	AV	2.3898G	50.09	54.00	-3.91	34.92	3	Vertical	101	3.52	-
2441MHz	Pass	AV	2.441G	101.76	Inf	-Inf	35.16	3	Vertical	101	3.52	-
2441MHz	Pass	AV	2.4998G	51.34	54.00	-2.66	35.44	3	Vertical	101	3.52	-
2441MHz	Pass	PK	2.3534G	60.83	74.00	-13.17	34.75	3	Vertical	101	3.52	-
2441MHz	Pass	PK	2.4406G	103.09	Inf	-Inf	35.16	3	Vertical	101	3.52	-
2441MHz	Pass	PK	2.489G	62.05	74.00	-11.95	35.39	3	Vertical	101	3.52	-
2441MHz	Pass	AV	4.88806G	36.46	54.00	-17.54	6.45	3	Horizontal	95	1.50	-
2441MHz	Pass	PK	4.87918G	47.13	74.00	-26.87	6.44	3	Horizontal	95	1.50	-
2441MHz	Pass	AV	4.88788G	36.44	54.00	-17.56	6.45	3	Vertical	83	1.50	-
2441MHz	Pass	PK	4.87282G	47.24	74.00	-26.76	6.42	3	Vertical	83	1.50	-
2480MHz	Pass	AV	2.48G	101.02	Inf	-Inf	35.35	3	Horizontal	163	3.38	-
2480MHz	Pass	AV	2.4838G	50.97	54.00	-3.03	35.36	3	Horizontal	163	3.38	-
2480MHz	Pass	PK	2.4796G	102.38	Inf	-Inf	35.34	3	Horizontal	163	3.38	-
2480MHz	Pass	PK	2.483502G	71.42	74.00	-2.58	35.36	3	Horizontal	163	3.38	-
2480MHz	Pass	AV	2.4798G	96.32	Inf	-Inf	35.35	3	Vertical	85	3.46	-
2480MHz	Pass	AV	2.499998G	51.41	54.00	-2.59	35.44	3	Vertical	85	3.46	-
2480MHz	Pass	PK	2.4796G	97.67	Inf	-Inf	35.34	3	Vertical	85	3.46	-
2480MHz	Pass	PK	2.483502G	67.78	74.00	-6.22	35.36	3	Vertical	85	3.46	-
2480MHz	Pass	AV	4.97446G	36.83	54.00	-17.17	6.64	3	Horizontal	81	2.76	-
2480MHz	Pass	PK	4.9711G	47.60	74.00	-26.40	6.64	3	Horizontal	81	2.76	-
2480MHz	Pass	AV	4.97494G	36.94	54.00	-17.06	6.64	3	Vertical	134	1.50	-
2480MHz	Pass	PK	4.948G	48.25	74.00	-25.75	6.59	3	Vertical	134	1.50	-
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3842G	49.98	54.00	-4.02	34.90	3	Horizontal	180	3.54	-
2402MHz	Pass	AV	2.402G	95.71	Inf	-Inf	34.98	3	Horizontal	180	3.54	-
2402MHz	Pass	PK	2.383G	62.14	74.00	-11.86	34.89	3	Horizontal	180	3.54	-
2402MHz	Pass	PK	2.402G	99.45	Inf	-Inf	34.98	3	Horizontal	180	3.54	-
2402MHz	Pass	AV	2.3862G	49.97	54.00	-4.03	34.90	3	Vertical	97	3.54	-
2402MHz	Pass	AV	2.402G	90.28	Inf	-Inf	34.98	3	Vertical	97	3.54	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2402MHz	Pass	PK	2.37G	62.31	74.00	-11.69	34.83	3	Vertical	97	3.54	-
2402MHz	Pass	PK	2.4022G	94.07	Inf	-Inf	34.98	3	Vertical	97	3.54	-
2441MHz	Pass	AV	2.3886G	49.92	54.00	-4.08	34.92	3	Horizontal	164	3.50	-
2441MHz	Pass	AV	2.441G	102.76	Inf	-Inf	35.16	3	Horizontal	164	3.50	-
2441MHz	Pass	AV	2.4894G	50.89	54.00	-3.11	35.39	3	Horizontal	164	3.50	-
2441MHz	Pass	PK	2.3502G	61.24	74.00	-12.76	34.74	3	Horizontal	164	3.50	-
2441MHz	Pass	PK	2.441G	106.44	Inf	-Inf	35.16	3	Horizontal	164	3.50	-
2441MHz	Pass	PK	2.4958G	62.14	74.00	-11.86	35.42	3	Horizontal	164	3.50	-
2441MHz	Pass	AV	2.3822G	50.02	54.00	-3.98	34.89	3	Vertical	100	3.55	-
2441MHz	Pass	AV	2.441G	98.74	Inf	-Inf	35.16	3	Vertical	100	3.55	-
2441MHz	Pass	AV	2.4998G	51.39	54.00	-2.61	35.44	3	Vertical	100	3.55	-
2441MHz	Pass	PK	2.3862G	61.46	74.00	-12.54	34.90	3	Vertical	100	3.55	-
2441MHz	Pass	PK	2.441G	102.82	Inf	-Inf	35.16	3	Vertical	100	3.55	-
2441MHz	Pass	PK	2.4838G	62.38	74.00	-11.62	35.36	3	Vertical	100	3.55	-
2480MHz	Pass	AV	2.48G	95.01	Inf	-Inf	35.35	3	Horizontal	164	3.36	-
2480MHz	Pass	AV	2.499998G	49.52	54.00	-4.48	35.44	3	Horizontal	164	3.36	-
2480MHz	Pass	PK	2.4798G	98.72	Inf	-Inf	35.35	3	Horizontal	164	3.36	-
2480MHz	Pass	PK	2.4862G	60.34	74.00	-13.66	35.37	3	Horizontal	164	3.36	-
2480MHz	Pass	AV	2.48G	91.05	Inf	-Inf	35.35	3	Vertical	85	3.46	-
2480MHz	Pass	AV	2.499998G	49.78	54.00	-4.22	35.44	3	Vertical	85	3.46	-
2480MHz	Pass	PK	2.4798G	94.74	Inf	-Inf	35.35	3	Vertical	85	3.46	-
2480MHz	Pass	PK	2.483502G	60.39	74.00	-13.61	35.36	3	Vertical	85	3.46	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.389998G	48.43	54.00	-5.57	34.92	3	Horizontal	166	3.54	-
2402MHz	Pass	AV	2.402G	92.09	Inf	-Inf	34.98	3	Horizontal	166	3.54	-
2402MHz	Pass	PK	2.3814G	60.12	74.00	-13.88	34.88	3	Horizontal	166	3.54	-
2402MHz	Pass	PK	2.402G	95.97	Inf	-Inf	34.98	3	Horizontal	166	3.54	-
2402MHz	Pass	AV	2.3876G	48.41	54.00	-5.59	34.92	3	Vertical	100	3.54	-
2402MHz	Pass	AV	2.402G	87.23	Inf	-Inf	34.98	3	Vertical	100	3.54	-
2402MHz	Pass	PK	2.382G	59.85	74.00	-14.15	34.89	3	Vertical	100	3.54	-
2402MHz	Pass	PK	2.402G	91.20	Inf	-Inf	34.98	3	Vertical	100	3.54	-
2441MHz	Pass	AV	2.3862G	48.43	54.00	-5.57	34.90	3	Horizontal	165	3.49	-
2441MHz	Pass	AV	2.441G	98.36	Inf	-Inf	35.16	3	Horizontal	165	3.49	-
2441MHz	Pass	AV	2.4998G	49.50	54.00	-4.50	35.44	3	Horizontal	165	3.49	-
2441MHz	Pass	PK	2.3798G	59.68	74.00	-14.32	34.87	3	Horizontal	165	3.49	-
2441MHz	Pass	PK	2.441G	102.17	Inf	-Inf	35.16	3	Horizontal	165	3.49	-
2441MHz	Pass	PK	2.4958G	59.85	74.00	-14.15	35.42	3	Horizontal	165	3.49	-
2441MHz	Pass	AV	2.3894G	48.46	54.00	-5.54	34.92	3	Vertical	99	3.54	-
2441MHz	Pass	AV	2.441G	94.60	Inf	-Inf	35.16	3	Vertical	99	3.54	-
2441MHz	Pass	AV	2.4998G	49.70	54.00	-4.30	35.44	3	Vertical	99	3.54	-
2441MHz	Pass	PK	2.3858G	59.35	74.00	-14.65	34.90	3	Vertical	99	3.54	-
2441MHz	Pass	PK	2.441G	98.41	Inf	-Inf	35.16	3	Vertical	99	3.54	-
2441MHz	Pass	PK	2.4862G	60.01	74.00	-13.99	35.37	3	Vertical	99	3.54	-
2480MHz	Pass	AV	2.48G	94.94	Inf	-Inf	35.35	3	Horizontal	164	3.36	-
2480MHz	Pass	AV	2.499998G	49.53	54.00	-4.47	35.44	3	Horizontal	164	3.36	-
2480MHz	Pass	PK	2.48G	97.97	Inf	-Inf	35.35	3	Horizontal	164	3.36	-
2480MHz	Pass	PK	2.4934G	60.04	74.00	-13.96	35.41	3	Horizontal	164	3.36	-
2480MHz	Pass	AV	2.48G	91.87	Inf	-Inf	35.35	3	Vertical	105	3.46	-
2480MHz	Pass	AV	2.499998G	49.68	54.00	-4.32	35.44	3	Vertical	105	3.46	-



RSE TX above 1GHz Result

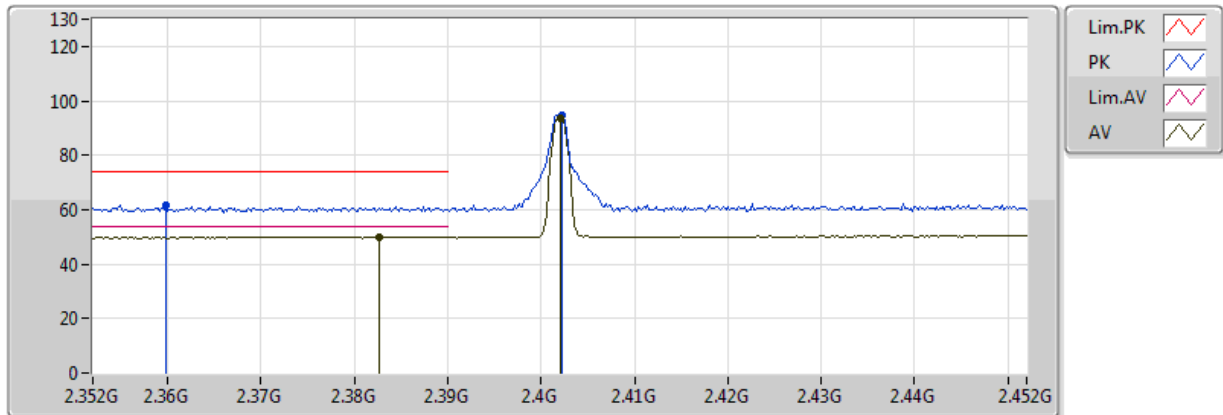
Appendix G.2

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	2.48G	95.55	Inf	-Inf	35.35	3	Vertical	105	3.46	-
2480MHz	Pass	PK	2.4982G	60.62	74.00	-13.38	35.43	3	Vertical	105	3.46	-

BT-BR(1Mbps)

2402MHz_TX

08/03/2018

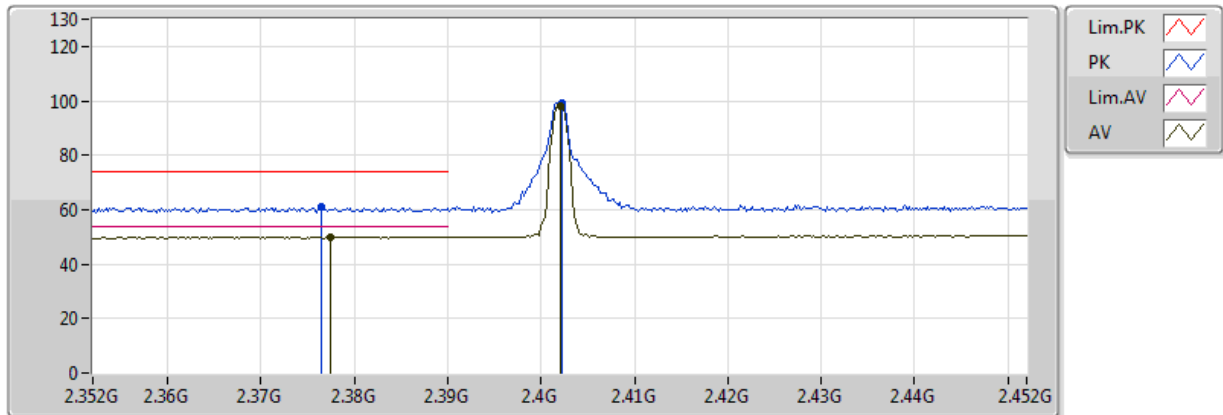


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3826G	49.96	54.00	-4.04	34.89	3	Vertical	114	3.29	-	15.07	26.97	7.92	-
AV	2.402G	93.34	Inf	-Inf	34.98	3	Vertical	114	3.29	-	58.36	27.03	7.95	-
PK	2.3598G	61.52	74.00	-12.48	34.78	3	Vertical	114	3.29	-	26.74	26.91	7.87	-
PK	2.4022G	94.53	Inf	-Inf	34.98	3	Vertical	114	3.29	-	59.55	27.03	7.95	-

BT-BR(1Mbps)

2402MHz_TX

08/03/2018

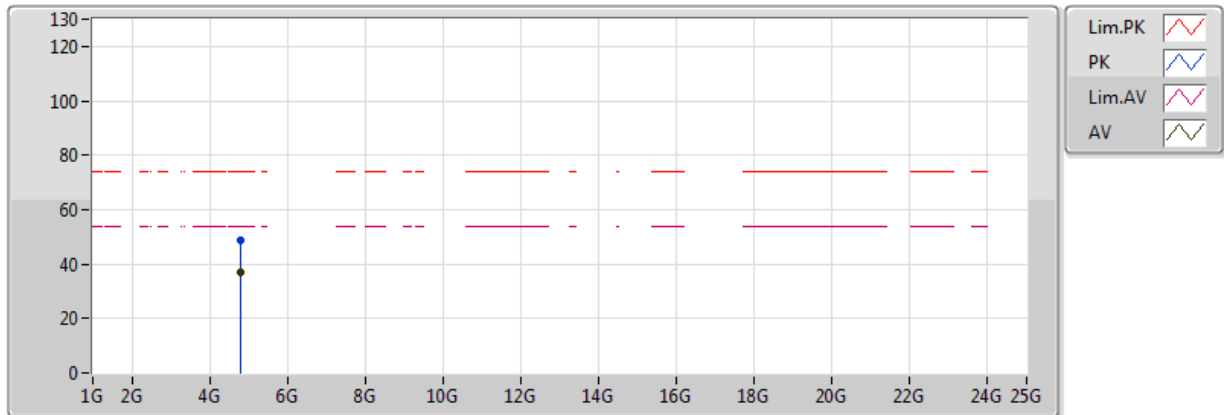


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3774G	49.92	54.00	-4.08	34.87	3	Horizontal	162	3.49	-	15.05	26.96	7.91	-
AV	2.402G	97.86	Inf	-Inf	34.98	3	Horizontal	162	3.49	-	62.88	27.03	7.95	-
PK	2.3764G	60.88	74.00	-13.12	34.86	3	Horizontal	162	3.49	-	26.02	26.95	7.91	-
PK	2.4022G	99.15	Inf	-Inf	34.98	3	Horizontal	162	3.49	-	64.17	27.03	7.95	-

BT-BR(1Mbps)

2402MHz_TX

08/03/2018

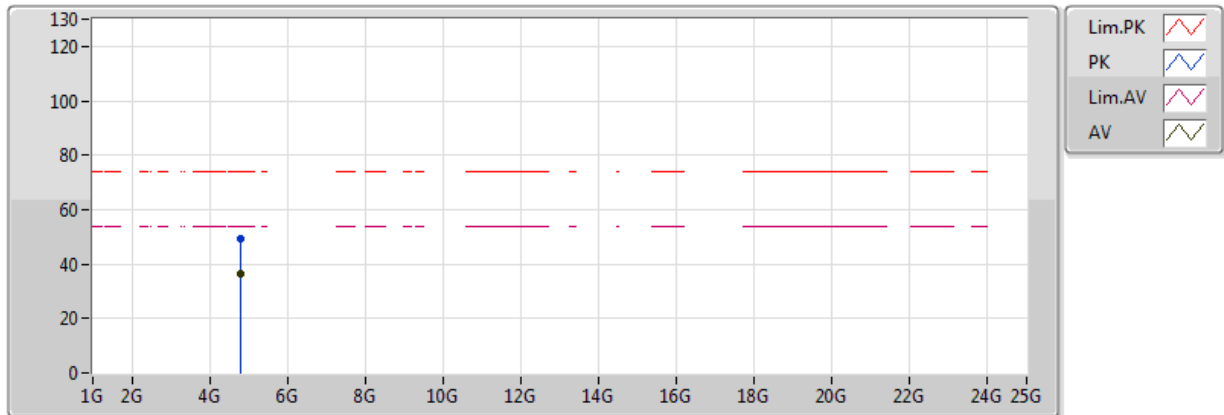


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.7968G	36.92	54.00	-17.08	6.26	3	Vertical	34	1.50	-	30.66	31.17	10.26	35.17
PK	4.8094G	48.59	74.00	-25.41	6.29	3	Vertical	34	1.50	-	42.30	31.20	10.27	35.17

BT-BR(1Mbps)

2402MHz_TX

08/03/2018

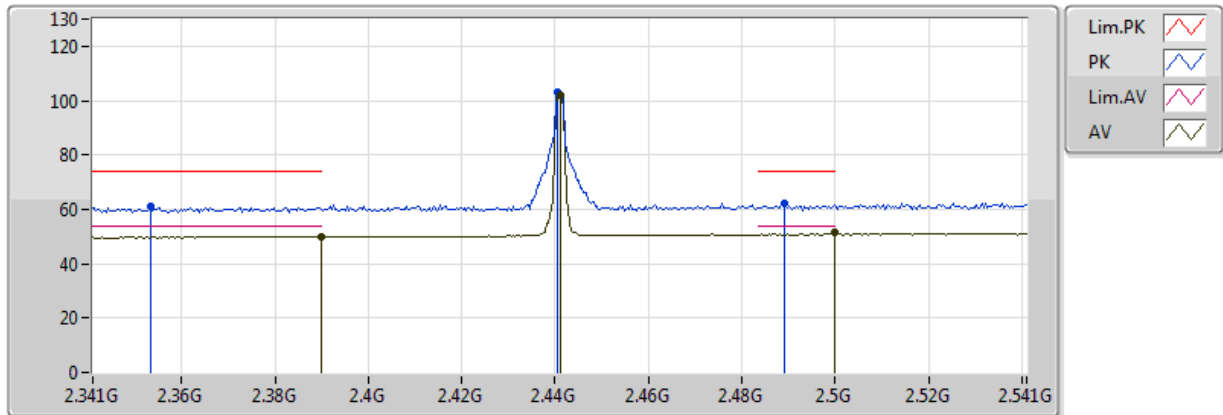


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.79434G	36.68	54.00	-17.32	6.26	3	Horizontal	357	1.50	-	30.42	31.17	10.26	35.17
PK	4.79242G	49.23	74.00	-24.77	6.25	3	Horizontal	357	1.50	-	42.98	31.17	10.25	35.17

BT-BR(1Mbps)

2441MHz_TX

08/03/2018

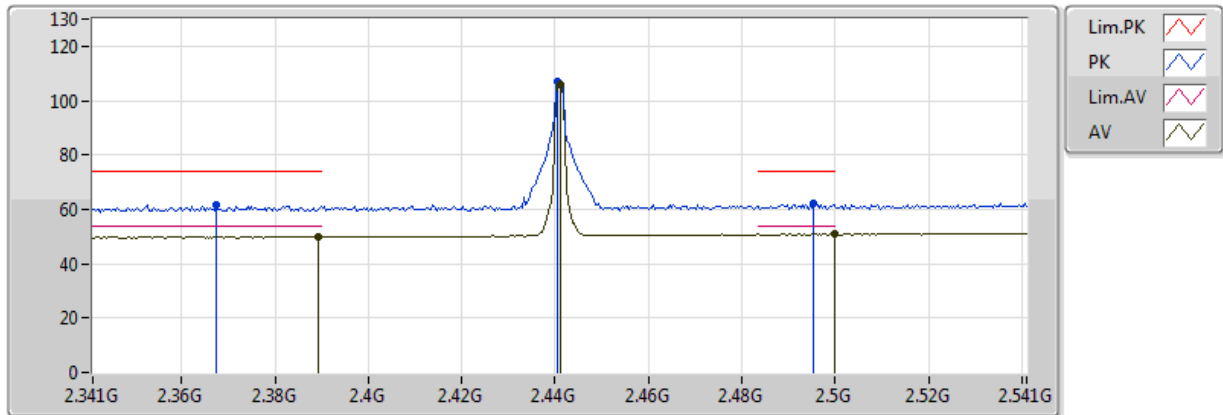


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	50.09	54.00	-3.91	34.92	3	Vertical	101	3.52	-	15.17	26.99	7.93	-
AV	2.441G	101.76	Inf	-Inf	35.16	3	Vertical	101	3.52	-	66.60	27.13	8.03	-
AV	2.4998G	51.34	54.00	-2.66	35.44	3	Vertical	101	3.52	-	15.90	27.30	8.14	-
PK	2.3534G	60.83	74.00	-13.17	34.75	3	Vertical	101	3.52	-	26.08	26.89	7.86	-
PK	2.4406G	103.09	Inf	-Inf	35.16	3	Vertical	101	3.52	-	67.93	27.13	8.03	-
PK	2.489G	62.05	74.00	-11.95	35.39	3	Vertical	101	3.52	-	26.66	27.27	8.12	-

BT-BR(1Mbps)

2441MHz_TX

08/03/2018

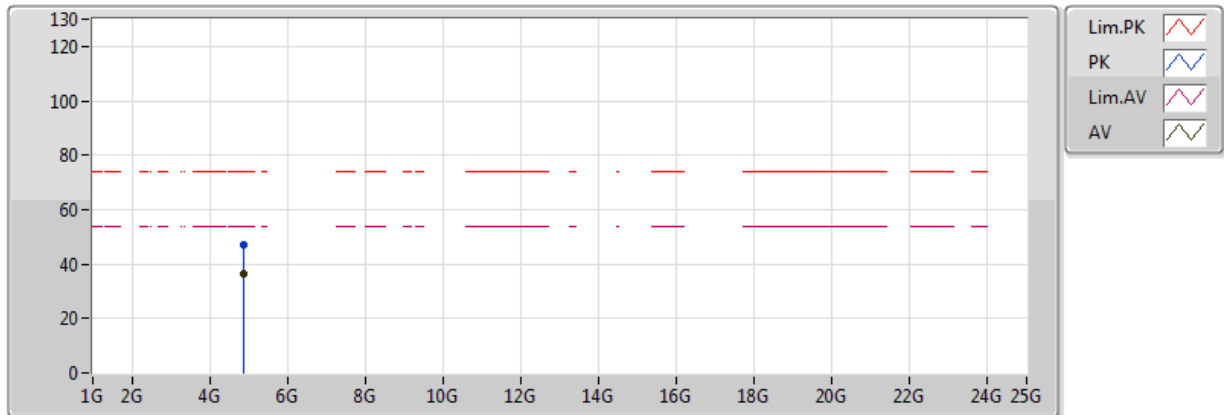


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	49.97	54.00	-4.03	34.92	3	Horizontal	162	3.50	-	15.05	26.99	7.93	-
AV	2.441G	105.64	Inf	-Inf	35.16	3	Horizontal	162	3.50	-	70.48	27.13	8.03	-
AV	2.4998G	50.92	54.00	-3.08	35.44	3	Horizontal	162	3.50	-	15.48	27.30	8.14	-
PK	2.3674G	61.42	74.00	-12.58	34.82	3	Horizontal	162	3.50	-	26.60	26.93	7.89	-
PK	2.4406G	106.91	Inf	-Inf	35.16	3	Horizontal	162	3.50	-	71.75	27.13	8.03	-
PK	2.4954G	62.03	74.00	-11.97	35.42	3	Horizontal	162	3.50	-	26.61	27.29	8.13	-

BT-BR(1Mbps)

2441MHz_TX

08/03/2018

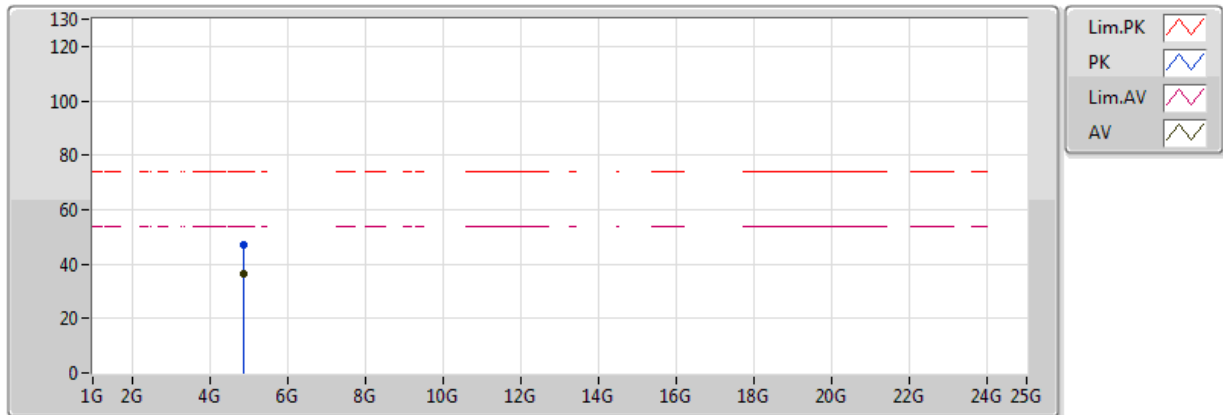


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88788G	36.44	54.00	-17.56	6.45	3	Vertical	83	1.50	-	29.99	31.32	10.33	35.20
PK	4.87282G	47.24	74.00	-26.76	6.42	3	Vertical	83	1.50	-	40.82	31.30	10.32	35.19

BT-BR(1Mbps)

2441MHz_TX

08/03/2018

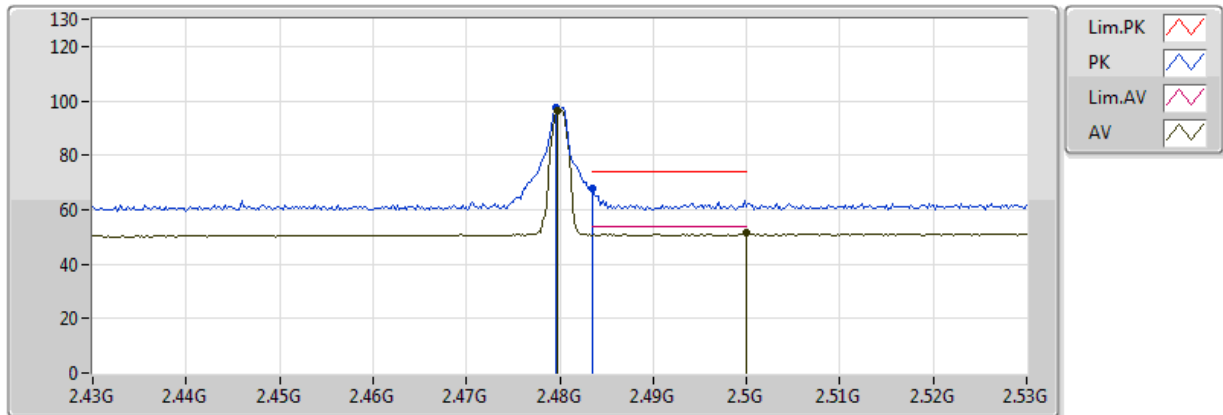


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.88806G	36.46	54.00	-17.54	6.45	3	Horizontal	95	1.50	-	30.01	31.32	10.33	35.20
PK	4.87918G	47.13	74.00	-26.87	6.44	3	Horizontal	95	1.50	-	40.69	31.31	10.32	35.19

BT-BR(1Mbps)

2480MHz_TX

08/03/2018

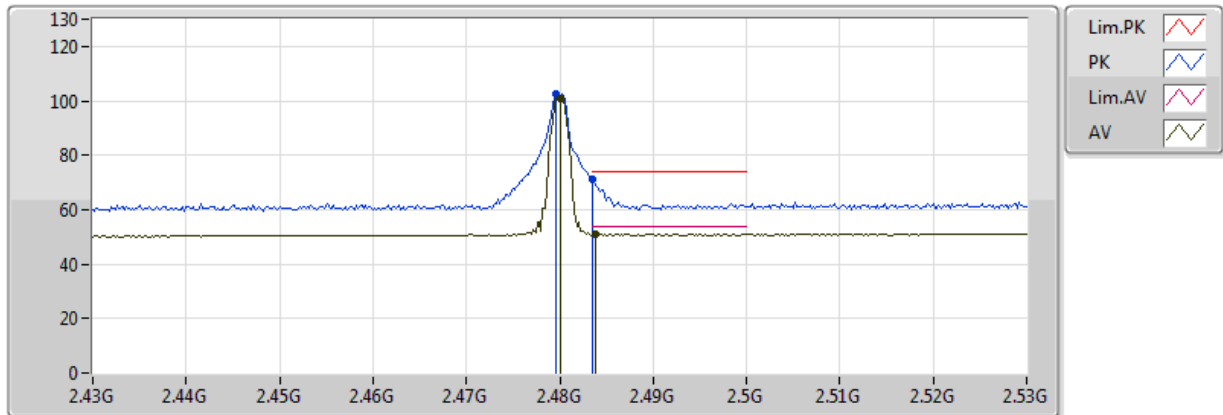


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.4798G	96.32	Inf	-Inf	35.35	3	Vertical	85	3.46	-	60.97	27.24	8.10	-
AV	2.499998G	51.41	54.00	-2.59	35.44	3	Vertical	85	3.46	-	15.97	27.30	8.14	-
PK	2.4796G	97.67	Inf	-Inf	35.34	3	Vertical	85	3.46	-	62.33	27.24	8.10	-
PK	2.483502G	67.78	74.00	-6.22	35.36	3	Vertical	85	3.46	-	32.42	27.25	8.11	-

BT-BR(1Mbps)

2480MHz_TX

08/03/2018

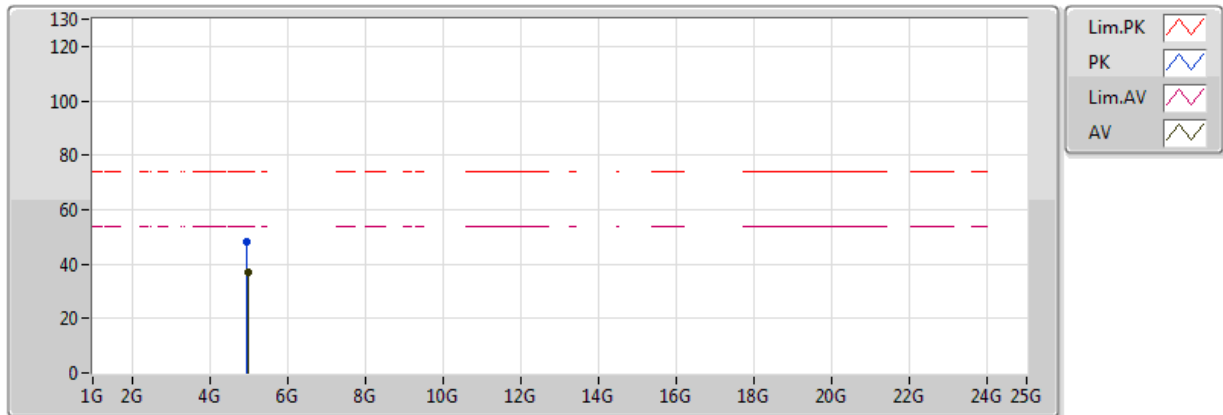


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	101.02	Inf	-Inf	35.35	3	Horizontal	163	3.38	-	65.67	27.24	8.10	-
AV	2.4838G	50.97	54.00	-3.03	35.36	3	Horizontal	163	3.38	-	15.61	27.25	8.11	-
PK	2.4796G	102.38	Inf	-Inf	35.34	3	Horizontal	163	3.38	-	67.04	27.24	8.10	-
PK	2.483502G	71.42	74.00	-2.58	35.36	3	Horizontal	163	3.38	-	36.06	27.25	8.11	-

BT-BR(1Mbps)

2480MHz_TX

08/03/2018

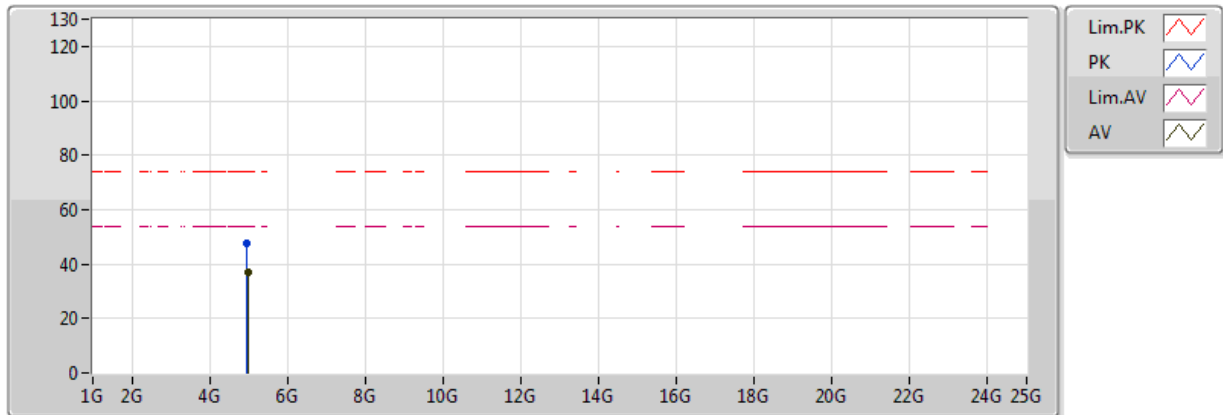


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.97494G	36.94	54.00	-17.06	6.64	3	Vertical	134	1.50	-	30.30	31.46	10.40	35.21
PK	4.948G	48.25	74.00	-25.75	6.59	3	Vertical	134	1.50	-	41.66	31.42	10.38	35.21

BT-BR(1Mbps)

2480MHz_TX

08/03/2018

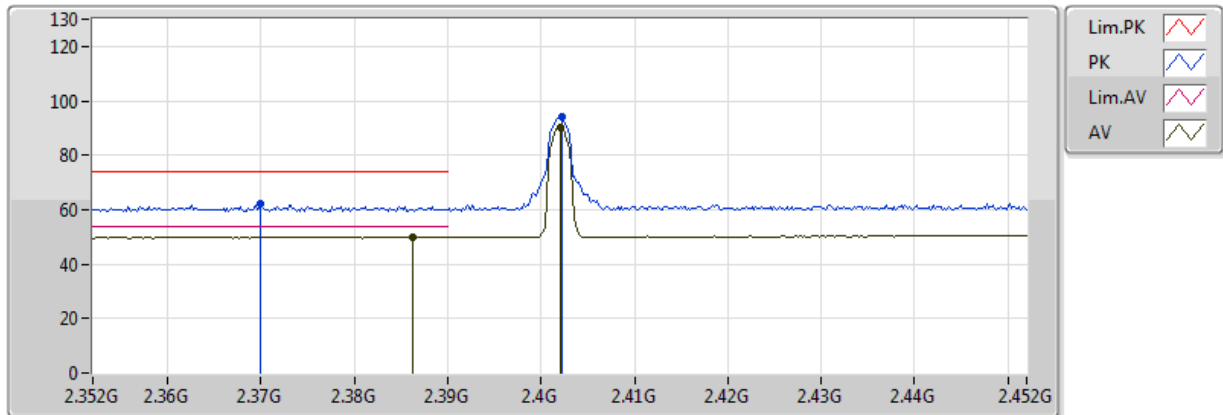


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.97446G	36.83	54.00	-17.17	6.64	3	Horizontal	81	2.76	-	30.19	31.46	10.40	35.21
PK	4.9711G	47.60	74.00	-26.40	6.64	3	Horizontal	81	2.76	-	40.96	31.45	10.40	35.21

BT-EDR(2Mbps)

2402MHz_TX

08/03/2018

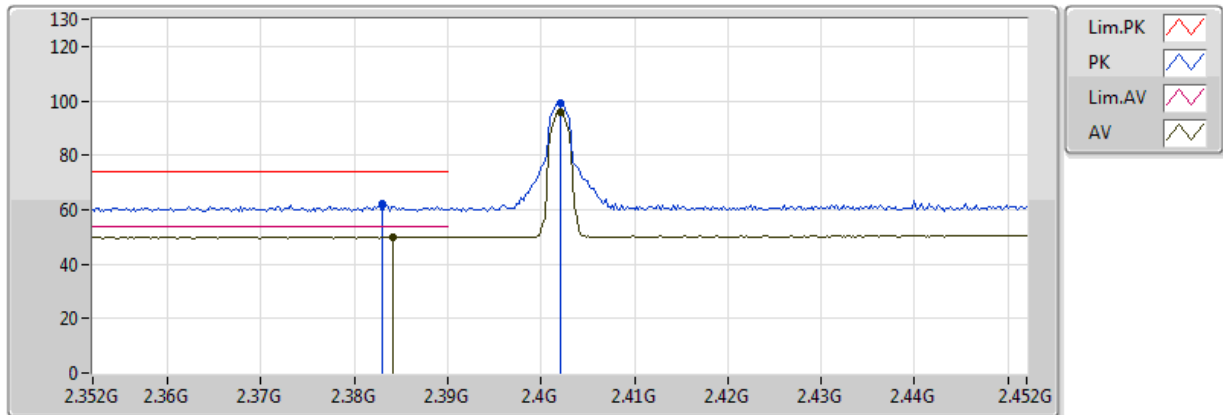


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3862G	49.97	54.00	-4.03	34.90	3	Vertical	97	3.54	-	15.07	26.98	7.92	-
AV	2.402G	90.28	Inf	-Inf	34.98	3	Vertical	97	3.54	-	55.30	27.03	7.95	-
PK	2.37G	62.31	74.00	-11.69	34.83	3	Vertical	97	3.54	-	27.48	26.94	7.89	-
PK	2.4022G	94.07	Inf	-Inf	34.98	3	Vertical	97	3.54	-	59.09	27.03	7.95	-

BT-EDR(2Mbps)

2402MHz_TX

08/03/2018

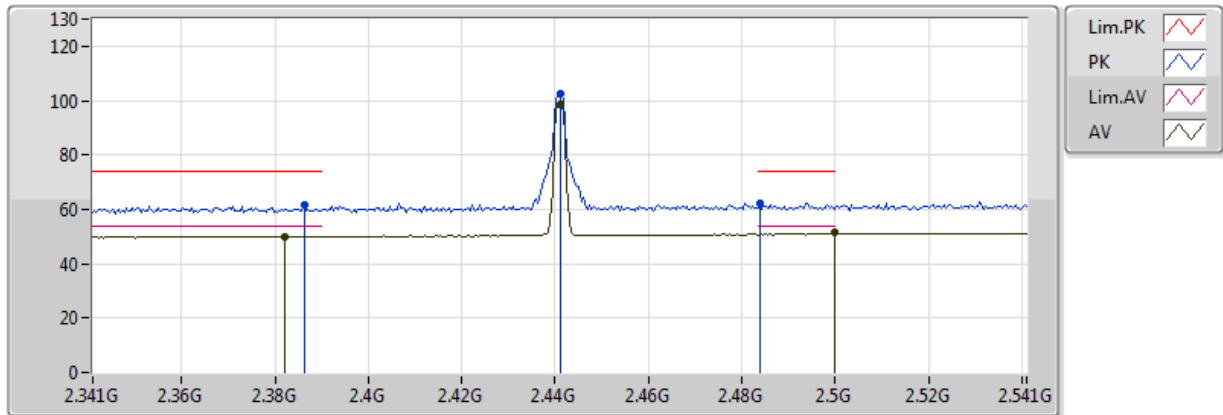


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3842G	49.98	54.00	-4.02	34.90	3	Horizontal	180	3.54	-	15.08	26.98	7.92	-
AV	2.402G	95.71	Inf	-Inf	34.98	3	Horizontal	180	3.54	-	60.73	27.03	7.95	-
PK	2.383G	62.14	74.00	-11.86	34.89	3	Horizontal	180	3.54	-	27.25	26.97	7.92	-
PK	2.402G	99.45	Inf	-Inf	34.98	3	Horizontal	180	3.54	-	64.47	27.03	7.95	-

BT-EDR(2Mbps)

2441MHz_TX

08/03/2018

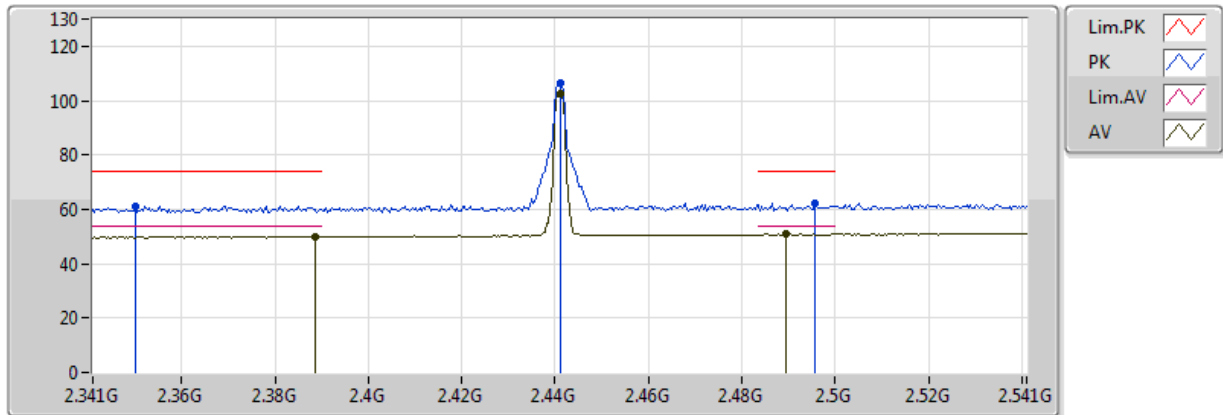


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3822G	50.02	54.00	-3.98	34.89	3	Vertical	100	3.55	-	15.13	26.97	7.92	-
AV	2.441G	98.74	Inf	-Inf	35.16	3	Vertical	100	3.55	-	63.58	27.13	8.03	-
AV	2.4998G	51.39	54.00	-2.61	35.44	3	Vertical	100	3.55	-	15.95	27.30	8.14	-
PK	2.3862G	61.46	74.00	-12.54	34.90	3	Vertical	100	3.55	-	26.56	26.98	7.92	-
PK	2.441G	102.82	Inf	-Inf	35.16	3	Vertical	100	3.55	-	67.66	27.13	8.03	-
PK	2.4838G	62.38	74.00	-11.62	35.36	3	Vertical	100	3.55	-	27.02	27.25	8.11	-

BT-EDR(2Mbps)

2441MHz_TX

08/03/2018

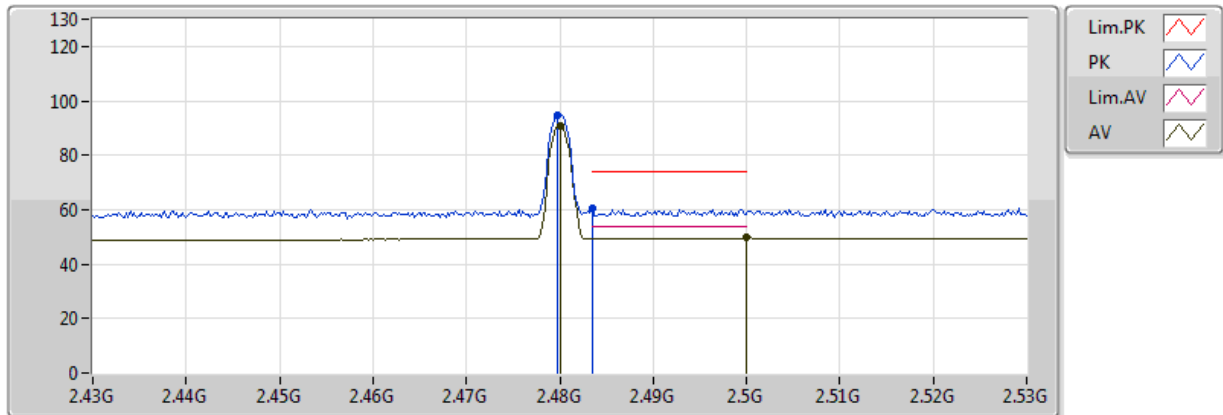


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3886G	49.92	54.00	-4.08	34.92	3	Horizontal	164	3.50	-	15.00	26.99	7.93	-
AV	2.441G	102.76	Inf	-Inf	35.16	3	Horizontal	164	3.50	-	67.60	27.13	8.03	-
AV	2.4894G	50.89	54.00	-3.11	35.39	3	Horizontal	164	3.50	-	15.50	27.27	8.12	-
PK	2.3502G	61.24	74.00	-12.76	34.74	3	Horizontal	164	3.50	-	26.50	26.88	7.86	-
PK	2.441G	106.44	Inf	-Inf	35.16	3	Horizontal	164	3.50	-	71.28	27.13	8.03	-
PK	2.4958G	62.14	74.00	-11.86	35.42	3	Horizontal	164	3.50	-	26.72	27.29	8.13	-

BT-EDR(2Mbps)

2480MHz_TX

08/03/2018

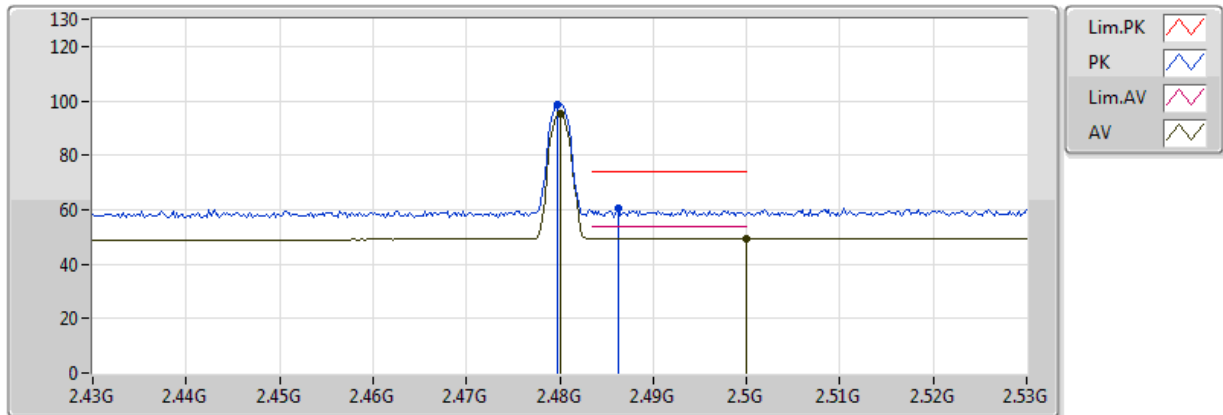


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	91.05	Inf	-Inf	35.35	3	Vertical	85	3.46	-	55.70	27.24	8.10	-
AV	2.499998G	49.78	54.00	-4.22	35.44	3	Vertical	85	3.46	-	14.34	27.30	8.14	-
PK	2.4798G	94.74	Inf	-Inf	35.35	3	Vertical	85	3.46	-	59.39	27.24	8.10	-
PK	2.483502G	60.39	74.00	-13.61	35.36	3	Vertical	85	3.46	-	25.03	27.25	8.11	-

BT-EDR(2Mbps)

2480MHz_TX

08/03/2018

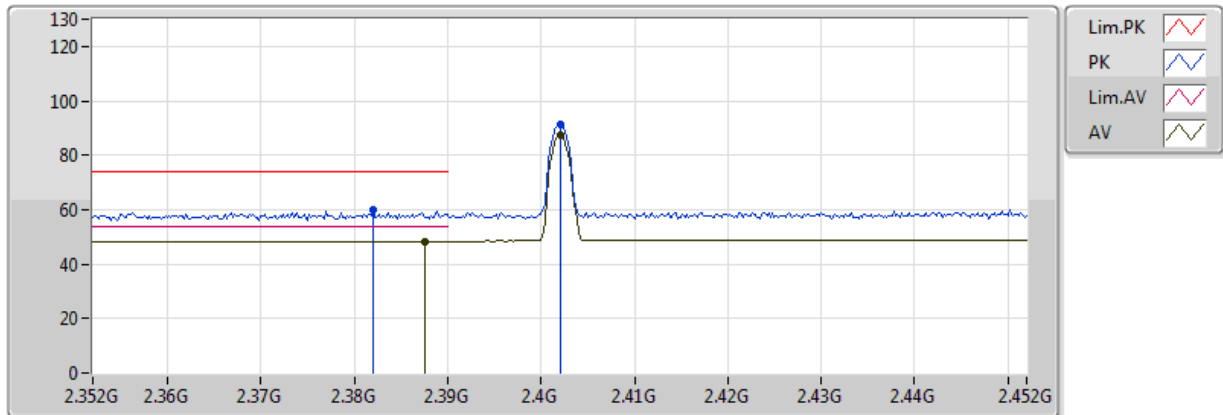


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	95.01	Inf	-Inf	35.35	3	Horizontal	164	3.36	-	59.66	27.24	8.10	-
AV	2.499998G	49.52	54.00	-4.48	35.44	3	Horizontal	164	3.36	-	14.08	27.30	8.14	-
PK	2.4798G	98.72	Inf	-Inf	35.35	3	Horizontal	164	3.36	-	63.37	27.24	8.10	-
PK	2.4862G	60.34	74.00	-13.66	35.37	3	Horizontal	164	3.36	-	24.97	27.26	8.11	-

BT-EDR(3Mbps)

2402MHz_TX

08/03/2018

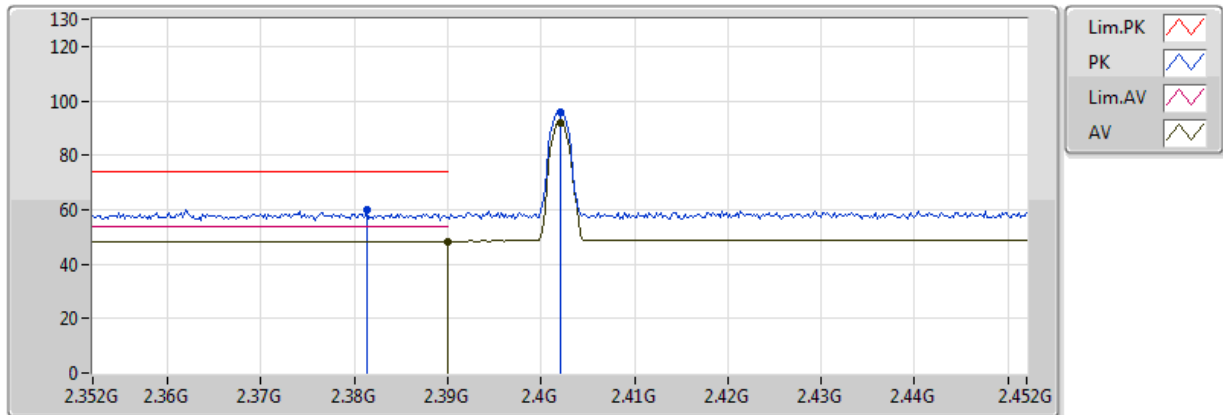


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.3876G	48.41	54.00	-5.59	34.92	3	Vertical	100	3.54	-	13.49	26.99	7.93	-
AV	2.402G	87.23	Inf	-Inf	34.98	3	Vertical	100	3.54	-	52.25	27.03	7.95	-
PK	2.382G	59.85	74.00	-14.15	34.89	3	Vertical	100	3.54	-	24.96	26.97	7.92	-
PK	2.402G	91.20	Inf	-Inf	34.98	3	Vertical	100	3.54	-	56.22	27.03	7.95	-

BT-EDR(3Mbps)

2402MHz_TX

08/03/2018

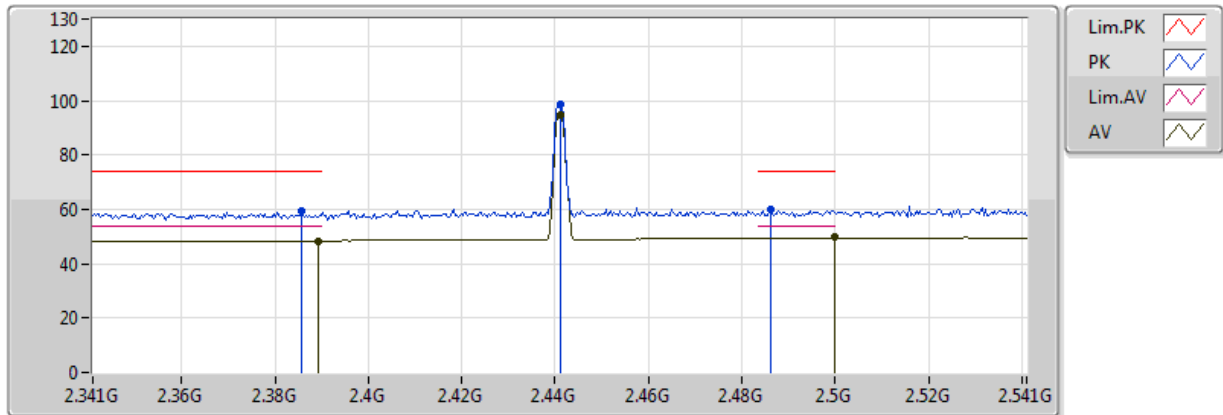


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389998G	48.43	54.00	-5.57	34.92	3	Horizontal	166	3.54	-	13.51	26.99	7.93	-
AV	2.402G	92.09	Inf	-Inf	34.98	3	Horizontal	166	3.54	-	57.11	27.03	7.95	-
PK	2.3814G	60.12	74.00	-13.88	34.88	3	Horizontal	166	3.54	-	25.24	26.97	7.91	-
PK	2.402G	95.97	Inf	-Inf	34.98	3	Horizontal	166	3.54	-	60.99	27.03	7.95	-

BT-EDR(3Mbps)

2441MHz_TX

08/03/2018

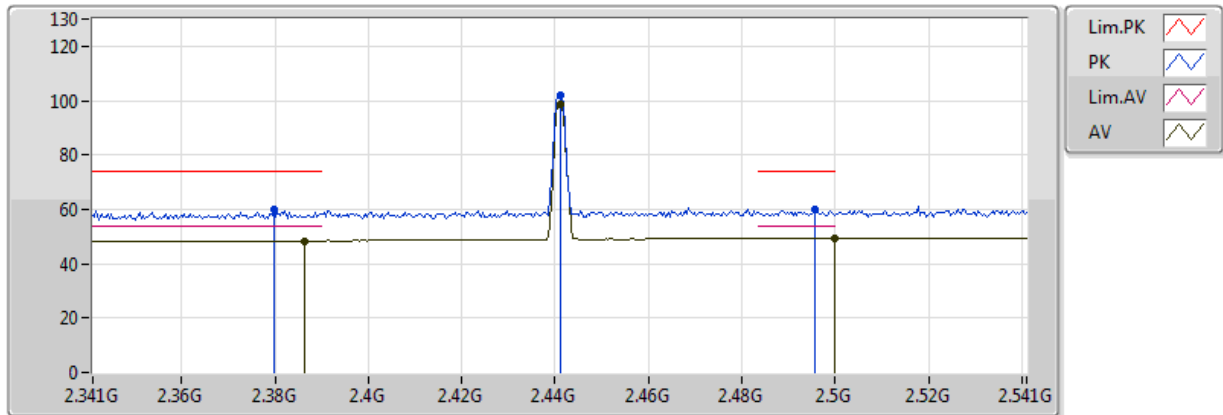


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	48.46	54.00	-5.54	34.92	3	Vertical	99	3.54	-	13.54	26.99	7.93	-
AV	2.441G	94.60	Inf	-Inf	35.16	3	Vertical	99	3.54	-	59.44	27.13	8.03	-
AV	2.4998G	49.70	54.00	-4.30	35.44	3	Vertical	99	3.54	-	14.26	27.30	8.14	-
PK	2.3858G	59.35	74.00	-14.65	34.90	3	Vertical	99	3.54	-	24.45	26.98	7.92	-
PK	2.441G	98.41	Inf	-Inf	35.16	3	Vertical	99	3.54	-	63.25	27.13	8.03	-
PK	2.4862G	60.01	74.00	-13.99	35.37	3	Vertical	99	3.54	-	24.64	27.26	8.11	-

BT-EDR(3Mbps)

2441MHz_TX

08/03/2018

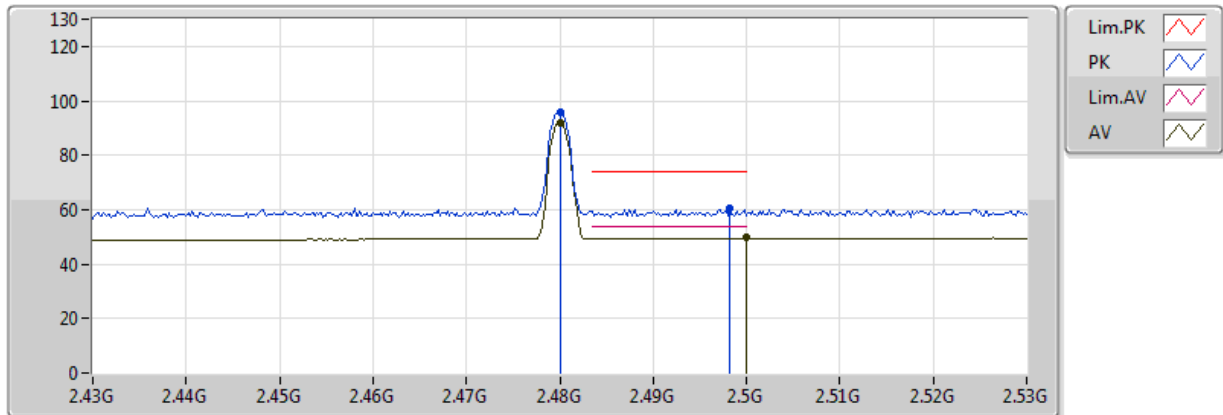


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3862G	48.43	54.00	-5.57	34.90	3	Horizontal	165	3.49	-	13.53	26.98	7.92	-
AV	2.441G	98.36	Inf	-Inf	35.16	3	Horizontal	165	3.49	-	63.20	27.13	8.03	-
AV	2.4998G	49.50	54.00	-4.50	35.44	3	Horizontal	165	3.49	-	14.06	27.30	8.14	-
PK	2.3798G	59.68	74.00	-14.32	34.87	3	Horizontal	165	3.49	-	24.81	26.96	7.91	-
PK	2.441G	102.17	Inf	-Inf	35.16	3	Horizontal	165	3.49	-	67.01	27.13	8.03	-
PK	2.4958G	59.85	74.00	-14.15	35.42	3	Horizontal	165	3.49	-	24.43	27.29	8.13	-

BT-EDR(3Mbps)

2480MHz_TX

08/03/2018

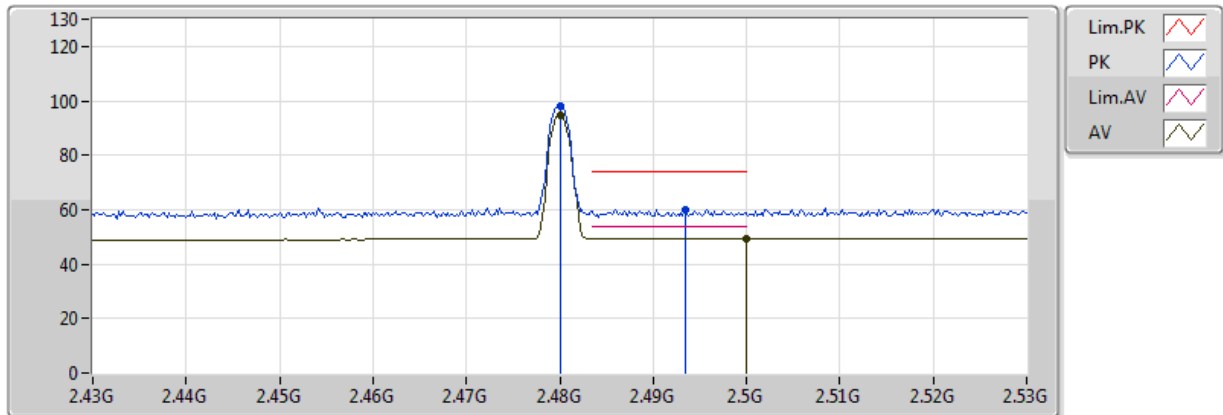


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)		(dBuV)	(dB)	(dB)	(dB)
AV	2.48G	91.87	Inf	-Inf	35.35	3	Vertical	105	3.46	-	56.52	27.24	8.10	-
AV	2.499998G	49.68	54.00	-4.32	35.44	3	Vertical	105	3.46	-	14.24	27.30	8.14	-
PK	2.48G	95.55	Inf	-Inf	35.35	3	Vertical	105	3.46	-	60.20	27.24	8.10	-
PK	2.4982G	60.62	74.00	-13.38	35.43	3	Vertical	105	3.46	-	25.19	27.29	8.14	-

BT-EDR(3Mbps)

2480MHz_TX

08/03/2018



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	2.48G	94.94	Inf	-Inf	35.35	3	Horizontal	164	3.36	-	59.59	27.24	8.10	-
AV	2.499998G	49.53	54.00	-4.47	35.44	3	Horizontal	164	3.36	-	14.09	27.30	8.14	-
PK	2.48G	97.97	Inf	-Inf	35.35	3	Horizontal	164	3.36	-	62.62	27.24	8.10	-
PK	2.4934G	60.04	74.00	-13.96	35.41	3	Horizontal	164	3.36	-	24.63	27.28	8.13	-