FCC Test Report

FCC ID	:	2AEUPBHALP021
Equipment	:	Wi-Fi enabled Video Doorbell
Brand Name	:	RING
Model Name	:	Video Doorbell Pro
Applicant	:	Ring, Inc 1523 26th St, Santa Monica, CA 90404, USA
Manufacturer	:	Chicony Electronics (Dong Guan) Co.,Ltd. San Zhong Guan Li Qu, Qingxi Town, Dongguan City Guangdong 523651 China
Standard	:	47 CFR FCC Part 15.247

The product was received on Apr. 24, 2018, and testing was started from Apr. 27, 2018 and completed on May 03, 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.)

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History of this test report

Report No.	Version	Description	Issued Date
FR842412AD	01	Initial issue of report	May 25, 2018

Summary of Test Result

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

Reviewed by: Sam Tsai

Report Producer: Jackson Tsai

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 π/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	-	Ring Wifi Antenna	PIFA Antenna	Fixed on board

2.4G		5G		BT	
Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)	Frequency (MHz)	Gain (dBi)
2412	1.37	5180	1.4	2402	1.37
2417	1.37	5200	1.4	2440 / 2441	1.08
2422	1.37	5240	2.5	2480	1.09
2427	1.08	5190	1.4	-	-
2432	1.08	5230	2.5	-	-
2437	1.08	5745	3.12	-	-
2442	1.08	5785	2.65	-	-
2447	1.08	5825	1.67	-	-
2452	1.08	5755	3.12	-	-
2457	1.08	5795	2.65	-	-
2462	1.08	-	-	-	-

For 2.4 GHz function:
For IEEE 802.11b/g/n mode (1TX/1RX)
Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.
For 5 GHz function:
For IEEE 802.11a/n mode (1TX/1RX)
Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.
For Bluetooth function:
For Bluetooth mode (1TX/1RX)
Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Battery / Transformer			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
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	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
BT-BR(1Mbps)	0.742	1.296	2.888m	1k
BT-EDR(2Mbps)	0.785	1.051	2.89m	1k
BT-EDR(3Mbps)	0.761	1.186	2.893m	1k

1.1.5 Table for Multiple Listing

Difference	Description
SKU #1	The sample is the same one, only the color is different.
SKU #2	
SKU #3	
SKU #4	
Note. For more detailed features description, please refer to the specifications or user's manual.	

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
AC Conduction	CO04-HY	Daniel	22.8°C / 53%	02/May/2018
RF Conducted	TH07-HY	Andy	23.5°C / 65%	02/May/2018
Radiated	03CH09-HY	Jerry	23.5°C / 55%	03/May/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	Power Setting
BT-BR(1Mbps)	-
2402MHz	Default
2441MHz	Default
2480MHz	Default
BT-EDR(2Mbps)	-
2402MHz	Default
2441MHz	Default
2480MHz	Default
BT-EDR(3Mbps)	-
2402MHz	Default
2441MHz	Default
2480MHz	Default

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

2.4 Accessories and Support Equipment

Accessories				
Battery	Brand Name	Fuji	Model Name	334060
	Power Rating	3.8 Vdc, 300 mAh	Type	Li-ion

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 Support Equipment

Support Equipment – RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	Transformer	TRIAD	VPL24-1100	DoC

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

Support Equipment – Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Transformer	TRIAD	VPL24-1100	-

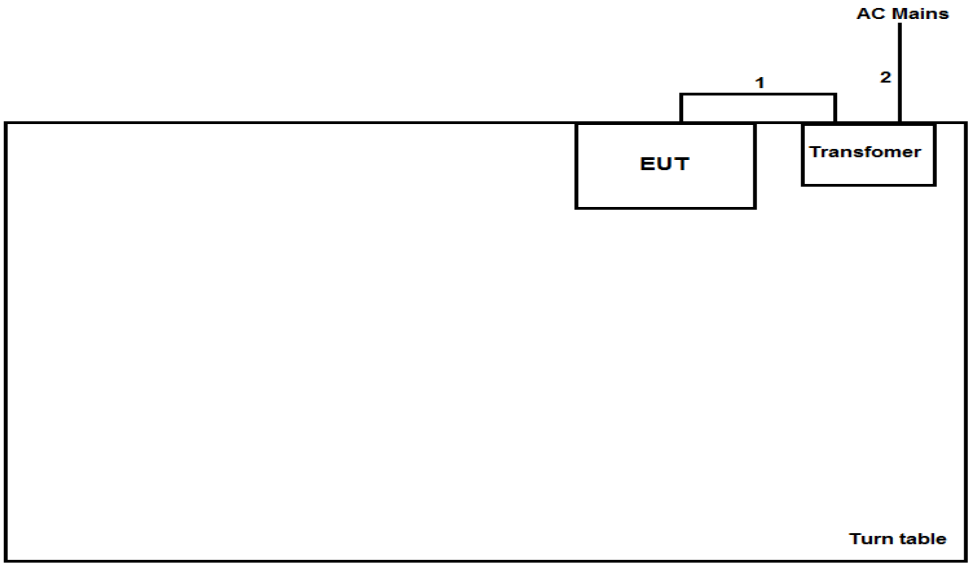
Note: Support equipment No.1 was provided by customer.

Support Equipment – AC Conduction				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
1	Transformer	TRIAD	VPL24-1100	-

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

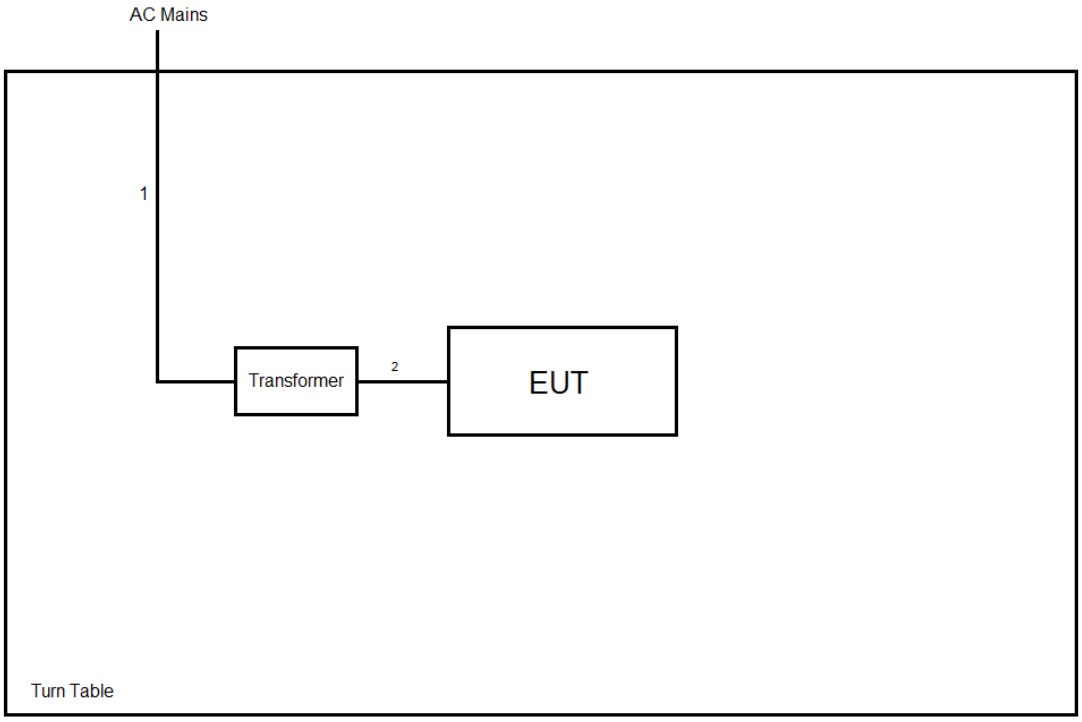
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	DC Power line	No	0.15m	-
2	AC Power line	No	1.8m	-

Test Setup Diagram – Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.8m	-
2	DC Power line	No	0.15m	-

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

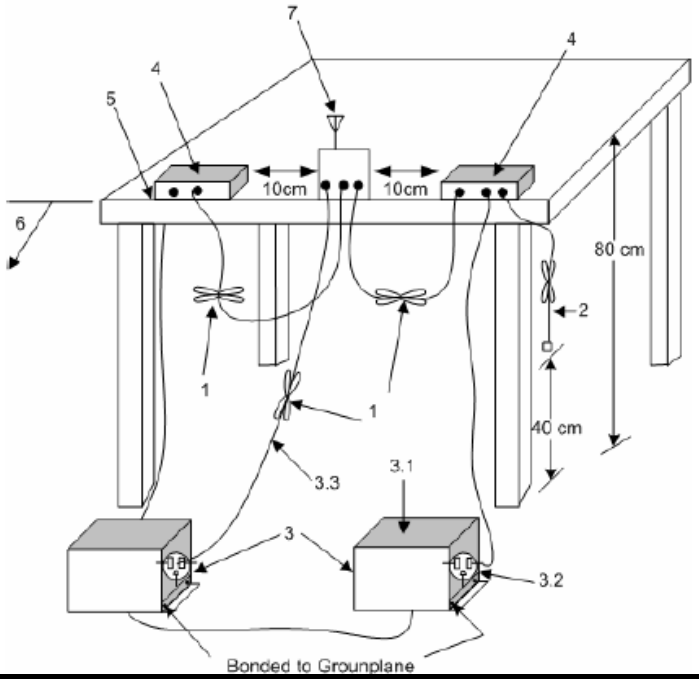
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



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 ≥75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
	▪ 75>N ≥ 15 and ChS ≥ MAX (20 dB bandwidth 2/3,25 kHz).
N:Number of Hopping Frequencies; **ChS**: Hopping Channel Separation	

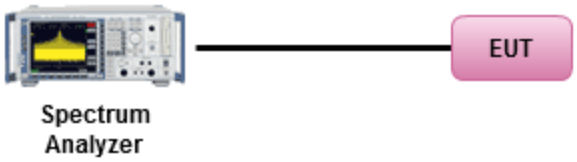
3.2.2 Measuring Instruments

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

20dB Bandwidth and Carrier Frequency Separation


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 ≥ 75; Power 30dBm; EIRP 36dBm
	▪ 75 >N ≥ 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

Maximum Conducted Output Power (Peak Power Meter)


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 ≥ 75 and ChS ≥ MAX (20 dB bandwidth, 25 kHz).
▪ 75 >N ≥ 15 and ChS ≥ 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

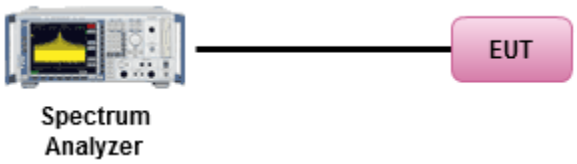
3.4.3 Measuring Instruments

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

Number of Hopping Frequencies and Hopping Frequencies Bandedge


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 ≥ 75; 0.4s in N x 0.4 period
▪ 75 >N ≥ 15; 0.4s in N x 0.4 period
N:Number of Hopping Frequencies

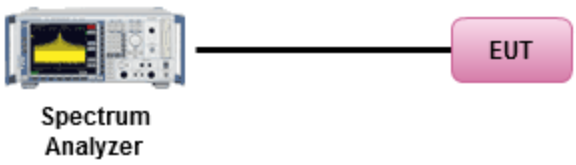
3.5.2 Measuring Instruments

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

Time of Occupancy (Dwell Time)


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.	

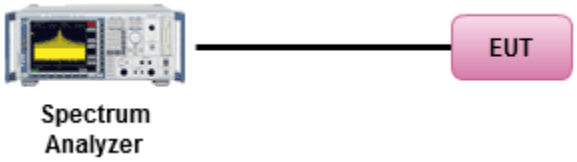
3.6.2 Measuring Instruments

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

Emissions in Non-restricted Frequency Bands


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 below30 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.

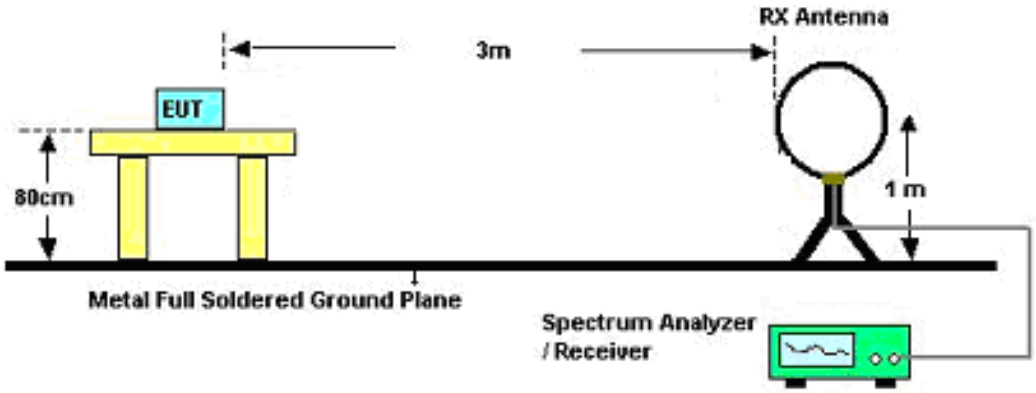
3.7.3 Test Procedures

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.

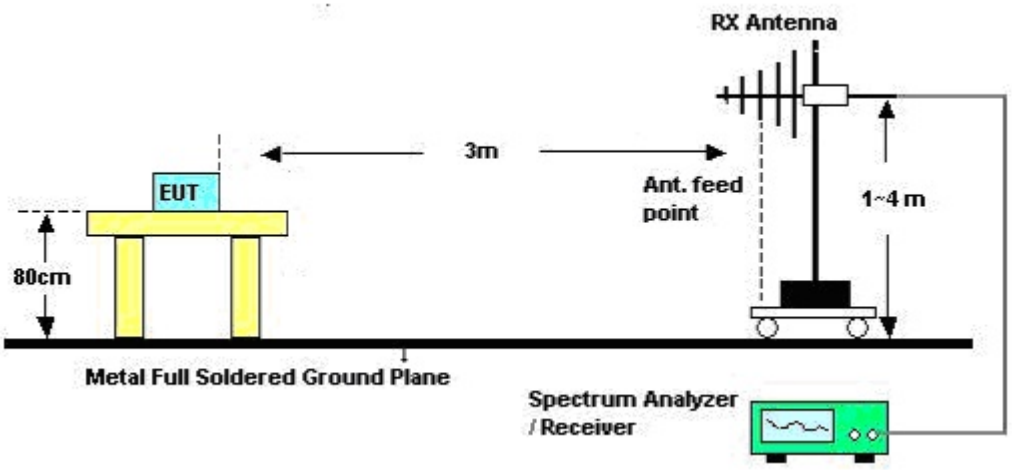
3.7.4 Test Setup

Emissions in Restricted Frequency Bands

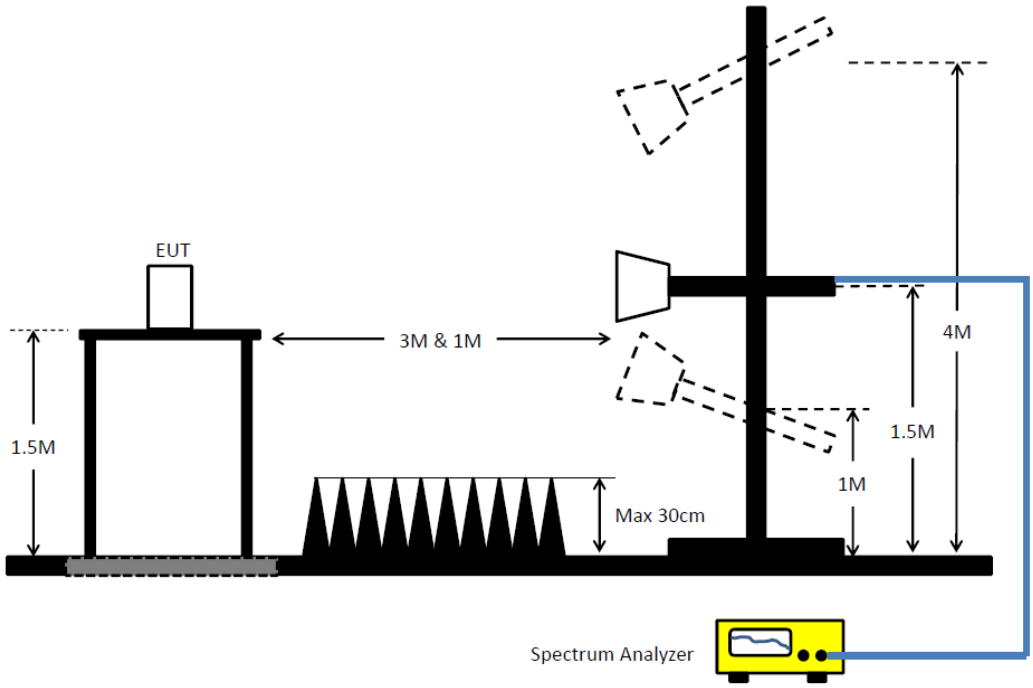
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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
EMI Test Receiver	Rohde & Schwarz	ESCS 30	838251/003	9 kHz ~ 2.75 GHz	13/Jun/2017	12/Jun/2018
LISN	R&S	ENV216	101295	9 kHz ~ 30 MHz	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9 kHz ~ 30 MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47 Hz ~ 63 Hz 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

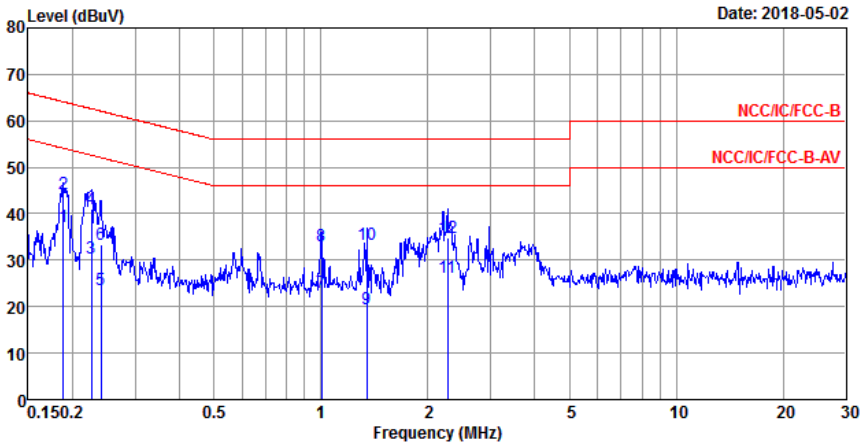
Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30 MHz ~ 1 GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1 GHz ~ 18 GHz	20/Jun/2017	19/Jun/2018
Microwave Preamplifier	Agilent	8449B	3008A02326	1 GHz ~ 26.5 GHz	17/Jul/2017	16/Jul/2018
Amplifier	EMC	EMC9135	980232	9 kHz ~ 1 GHz	27/Apr/2018	26/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10 Hz ~ 44 GHz	20/Jul/2017	19/Jul/2018
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30 MHz ~ 1 GHz	09/Sep/2017	08/Sep/2018
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1 GHz ~ 18 GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18 GHz ~ 40 GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-H G	1864481	18 GHz ~ 40 GHz	24/Aug/2017	23/Aug/2018
Loop Antenna	TESEQ	HLA 6120	31244	9k – 30 MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9 kHz ~ 1 GHz	02/Feb/2018	01/Feb/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1 GHz ~ 40 GHz	02/Feb/2018	01/Feb/2019

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101515	9 kHz ~ 40 GHz	08/Dec/2017	07/Dec/2018
Power Sensor	Anritsu	MA2411B	1339407	300 MHz ~ 40 GHz	10/May/2017	09/May/2018
Power Meter	Anritsu	ML2495A	1517010	300 MHz ~ 40 GHz	06/Nov/2017	05/Nov/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30 MHz ~ 26.5 GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30 MHz ~ 26.5 GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30 MHz ~ 26.5 GHz	25/Aug/2017	24/Aug/2018
Signal Generator	R&S	SMR40	100116	10 MHz ~ 40 GHz	27/Jul/2017	26/Jul/2018

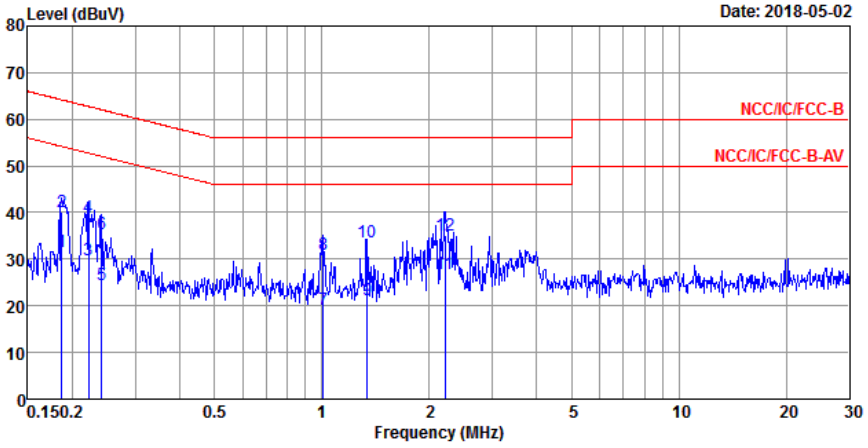
AC Power-line Conducted Emissions Result			
Operating Mode	1	**Power Phase**	Neutral
Operating Function	AC mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 MAX	0.19	37.16	-16.95	54.11	27.53	9.62	0.01	Average
2	0.19	44.16	-19.95	64.11	34.53	9.62	0.01	QP
3	0.23	30.38	-22.23	52.61	20.74	9.62	0.02	Average
4	0.23	41.11	-21.50	62.61	31.47	9.62	0.02	QP
5	0.24	23.66	-28.42	52.08	14.01	9.62	0.03	Average
6	0.24	33.30	-28.78	62.08	23.65	9.62	0.03	QP
7	1.00	23.11	-22.89	46.00	13.49	9.62	0.00	Average
8	1.00	33.10	-22.90	56.00	23.48	9.62	0.00	QP
9	1.34	19.35	-26.65	46.00	9.73	9.62	0.00	Average
10	1.34	33.39	-22.61	56.00	23.77	9.62	0.00	QP
11	2.27	26.42	-19.58	46.00	16.77	9.63	0.02	Average
12	2.27	34.85	-21.15	56.00	25.20	9.63	0.02	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	AC mode		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	31.62	-22.58	54.20	21.99	9.62	0.01	Average
2	0.19	40.07	-24.13	64.20	30.44	9.62	0.01	QP
3	0.22	29.85	-22.89	52.74	20.22	9.62	0.01	Average
4	0.22	38.98	-23.76	62.74	29.35	9.62	0.01	QP
5	0.24	24.41	-27.63	52.04	14.76	9.62	0.03	Average
6	0.24	35.55	-26.49	62.04	25.90	9.62	0.03	QP
7	1.01	19.16	-26.84	46.00	9.55	9.61	0.00	Average
8	1.01	31.05	-24.95	56.00	21.44	9.61	0.00	QP
9	1.34	21.37	-24.63	46.00	11.76	9.61	0.00	Average
10	1.34	33.58	-22.42	56.00	23.97	9.61	0.00	QP
11 MAX	2.21	26.88	-19.12	46.00	17.25	9.62	0.01	Average
12	2.21	35.23	-20.77	56.00	25.60	9.62	0.01	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)	925k	887.056k	887KF1D	923.75k	883.308k
BT-EDR(2Mbps)	1.338M	1.226M	1M23G1D	1.335M	1.219M
BT-EDR(3Mbps)	1.285M	1.222M	1M22G1D	1.279M	1.217M

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;

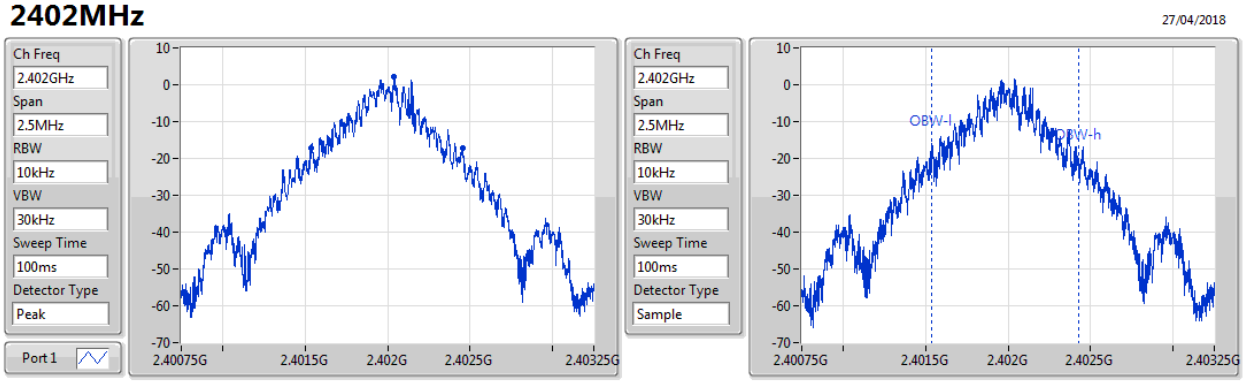
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	Inf	925k	887.056k
2441MHz	Pass	Inf	923.75k	883.308k
2480MHz	Pass	Inf	923.75k	885.807k
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.335M	1.226M
2441MHz	Pass	Inf	1.336M	1.223M
2480MHz	Pass	Inf	1.338M	1.219M
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	Inf	1.285M	1.217M
2441MHz	Pass	Inf	1.284M	1.218M
2480MHz	Pass	Inf	1.279M	1.222M

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

BT-BR(1Mbps) **EBW**

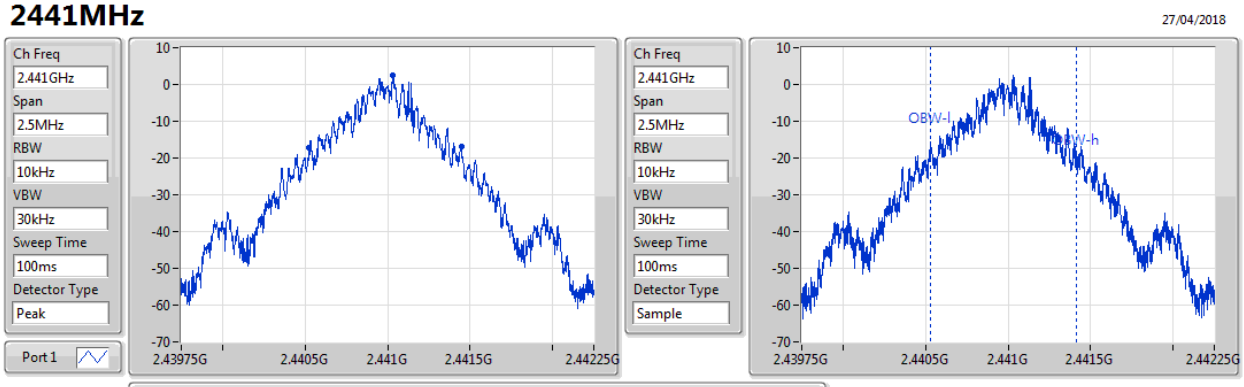
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
925k	2.401534G	2.402459G	887.056k	2.40154G	2.402427G	Inf	1

BT-BR(1Mbps) **EBW**

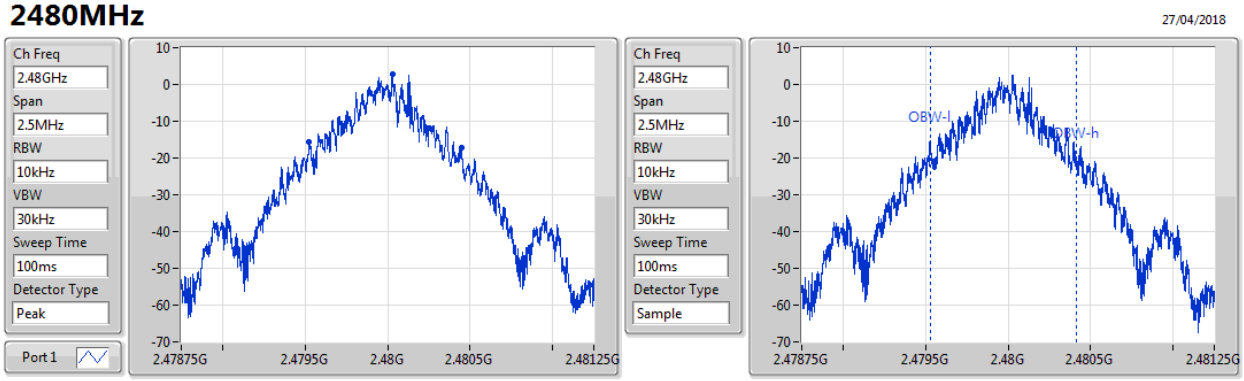
2441MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
923.75k	2.440526G	2.44145G	883.308k	2.440531G	2.441415G	Inf	1

BT-BR(1Mbps) **EBW**

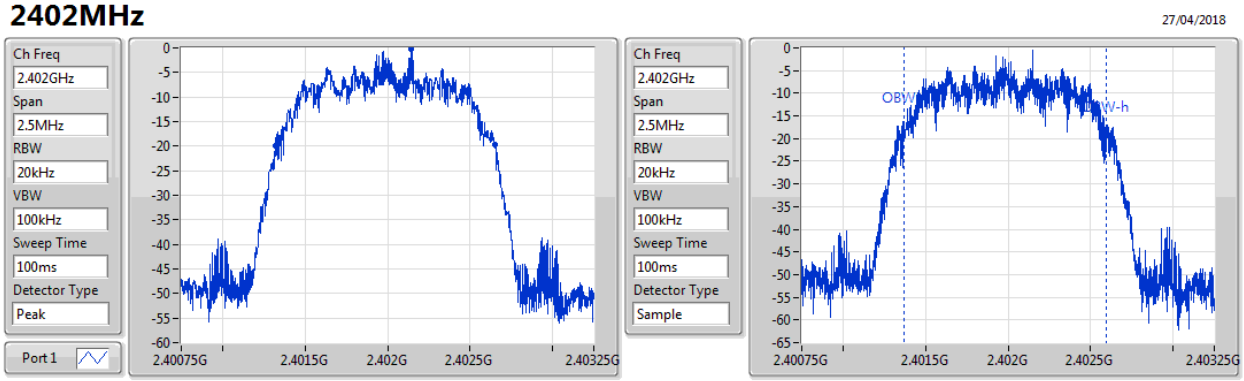
2480MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
923.75k	2.479525G	2.480449G	885.807k	2.479528G	2.480414G	Inf	1

BT-EDR(2Mbps) **EBW**

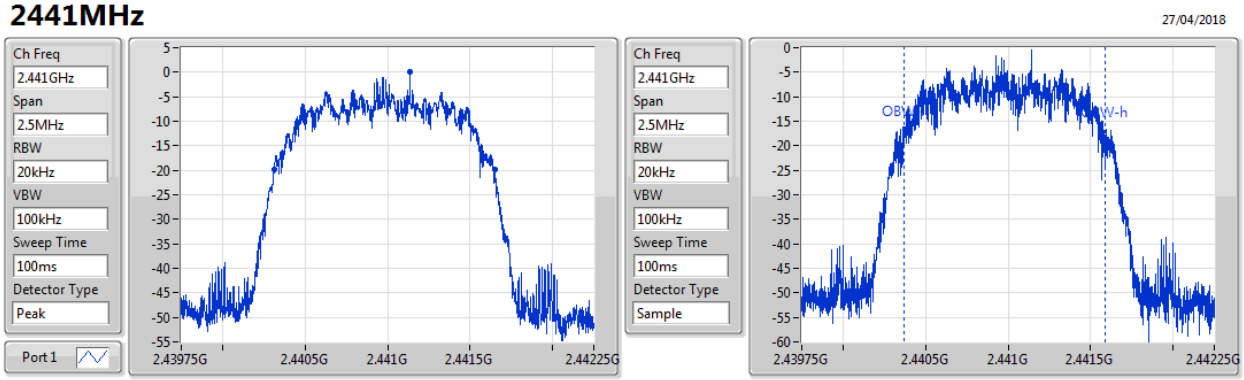
2402MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.335M	2.401319G	2.402654G	1.226M	2.401372G	2.402597G	Inf	1

BT-EDR(2Mbps) **EBW**

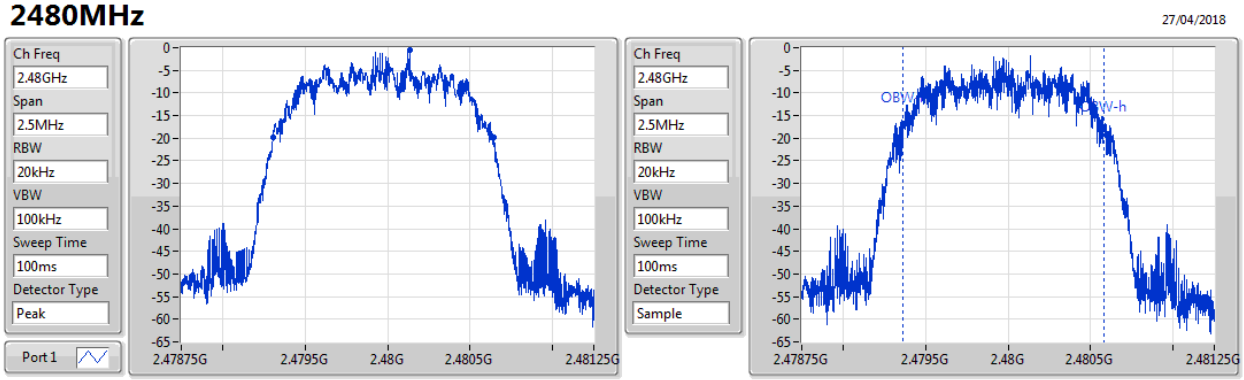
2441MHz



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.336M	2.440313G	2.441649G	1.223M	2.440368G	2.441591G	Inf	1

BT-EDR(2Mbps) **EBW**

2480MHz

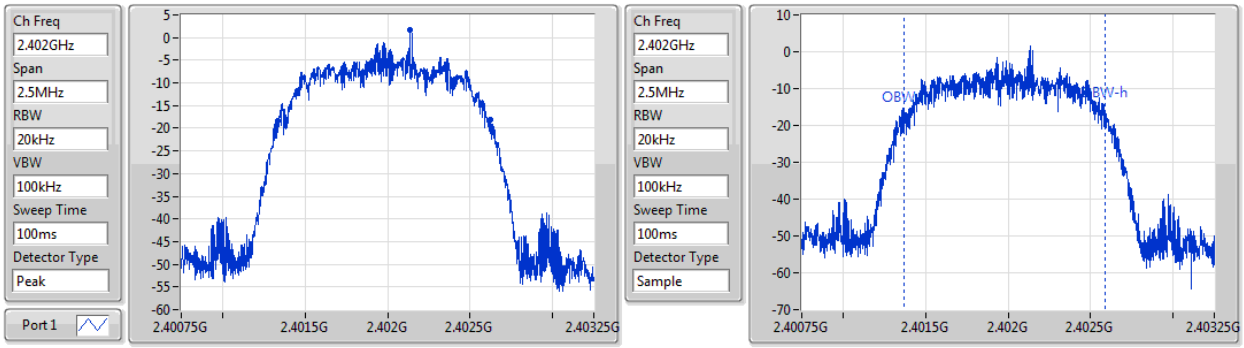


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.338M	2.479306G	2.480644G	1.219M	2.479363G	2.480582G	Inf	1

BT-EDR(3Mbps) **EBW**

2402MHz

27/04/2018

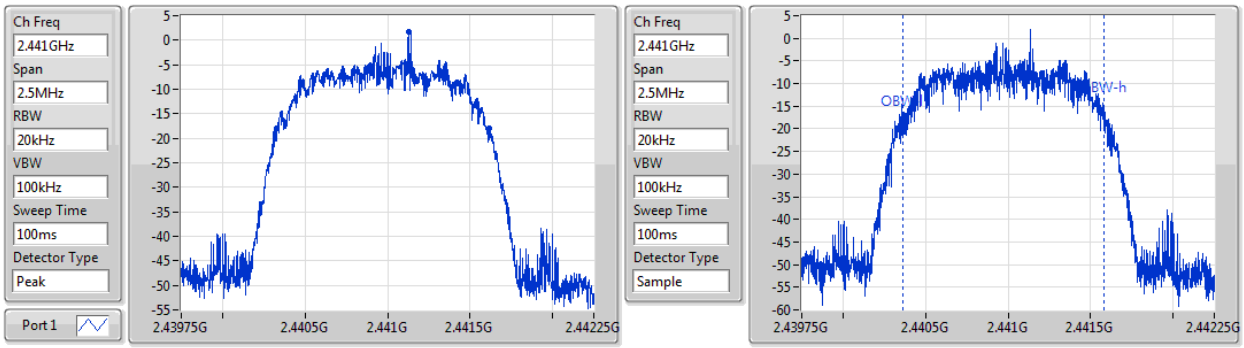


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.285M	2.401338G	2.402623G	1.217M	2.40137G	2.402587G	Inf	1

BT-EDR(3Mbps) **EBW**

2441MHz

27/04/2018

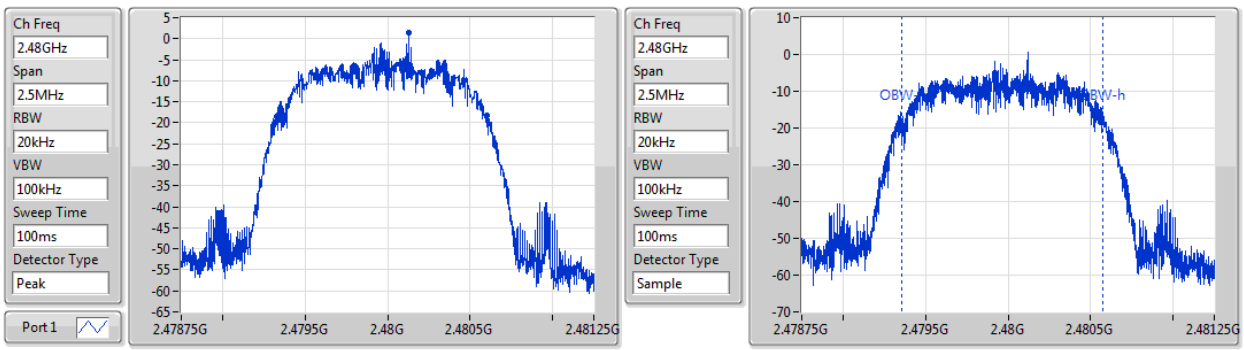


20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.284M	2.440331G	2.441615G	1.218M	2.440363G	2.441581G	Inf	1

BT-EDR(3Mbps) **EBW**

2480MHz

27/04/2018



20dB(Hz)	Fl-20dB(Hz)	Fh-20dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
1.279M	2.479325G	2.480604G	1.222M	2.479353G	2.480575G	Inf	1

Summary

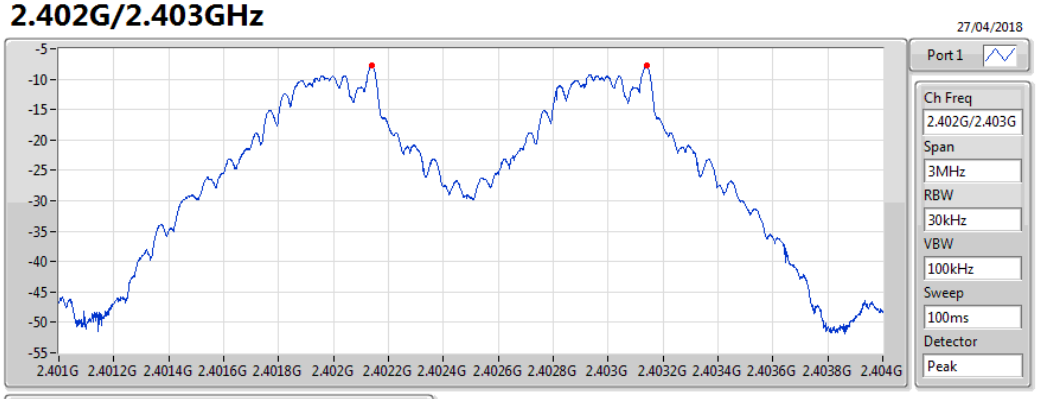
Mode	Max-Space (Hz)	Min-Space (Hz)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	1.0005M	999k
BT-EDR(2Mbps)	1.0005M	999k
BT-EDR(3Mbps)	1.002M	1.0005M

Result

Mode	Result	Fl (Hz)	Fh (Hz)	Ch.Space (Hz)	Limit (Hz)
BT-BR(1Mbps)	-	-	-	-	-
2402MHz	Pass	2.40214G	2.403141G	1.0005M	616.05k
2441MHz	Pass	2.441133G	2.442132G	999k	615.2175k
2480MHz	Pass	2.479128G	2.480129G	1.0005M	615.2175k
BT-EDR(2Mbps)	-	-	-	-	-
2402MHz	Pass	2.402143G	2.403144G	1.0005M	889.11k
2441MHz	Pass	2.441136G	2.442135G	999k	889.776k
2480MHz	Pass	2.479128G	2.480129G	1.0005M	891.108k
BT-EDR(3Mbps)	-	-	-	-	-
2402MHz	Pass	2.402139G	2.403139G	1.0005M	855.81k
2441MHz	Pass	2.441133G	2.442135G	1.002M	855.144k
2480MHz	Pass	2.479124G	2.480126G	1.002M	851.814k

BT-BR(1Mbps) **Channel Separation**

2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.40214G	2.403141G	1.0005M	616.05k

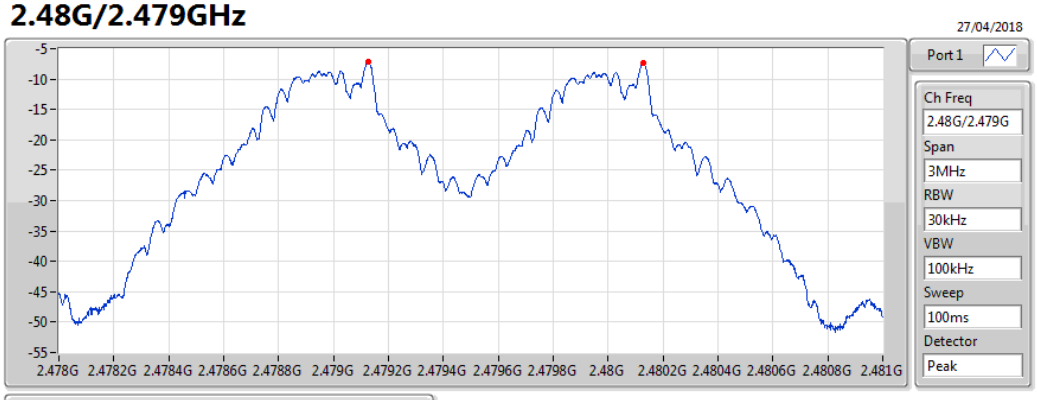
BT-BR(1Mbps) **Channel Separation**

2.441G/2.442GHz

Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.441133G	2.442132G	999k	615.2175k

BT-BR(1Mbps) **Channel Separation**

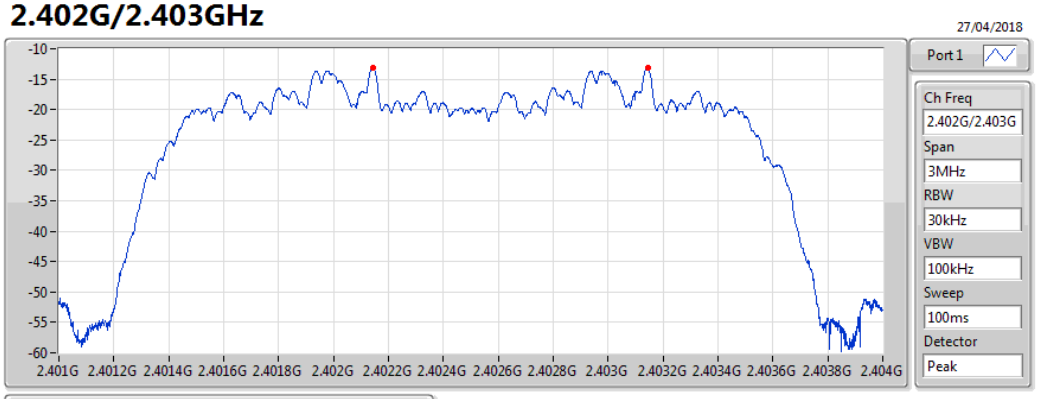
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479128G	2.480129G	1.0005M	615.2175k

BT-EDR(2Mbps) **Channel Separation**

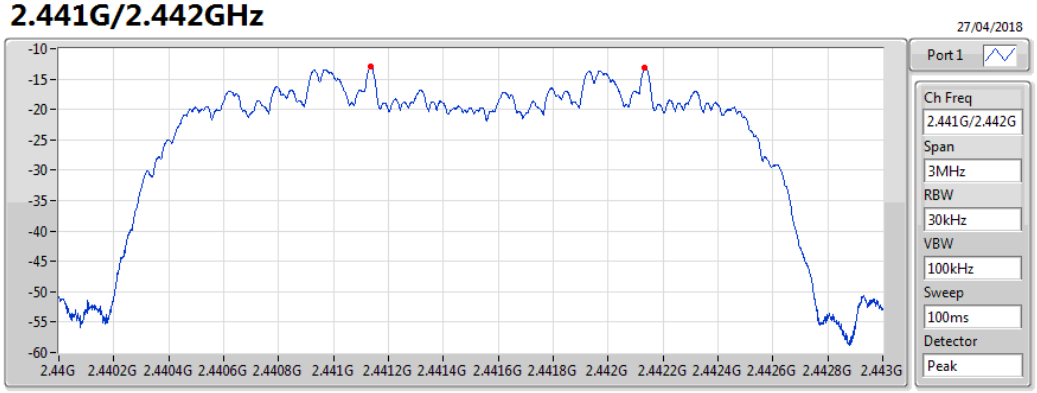
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402143G	2.403144G	1.0005M	889.11k

BT-EDR(2Mbps) **Channel Separation**

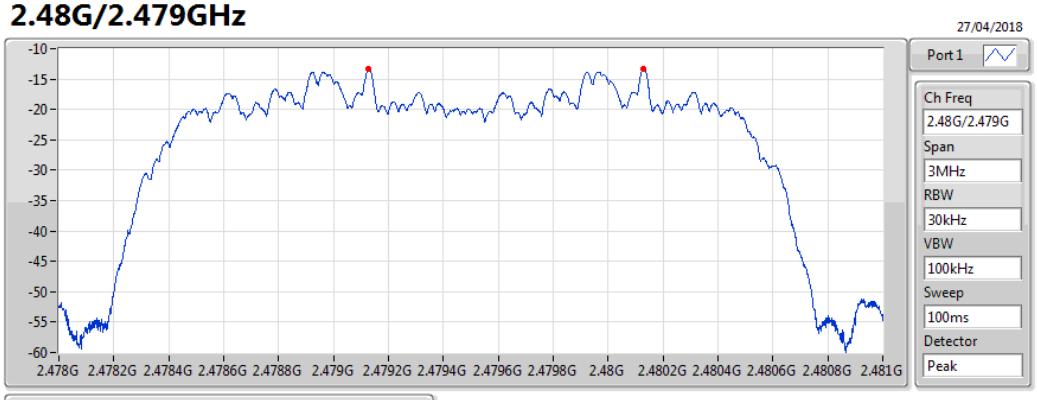
2.441G/2.442GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.441136G	2.442135G	999k	889.776k

BT-EDR(2Mbps) **Channel Separation**

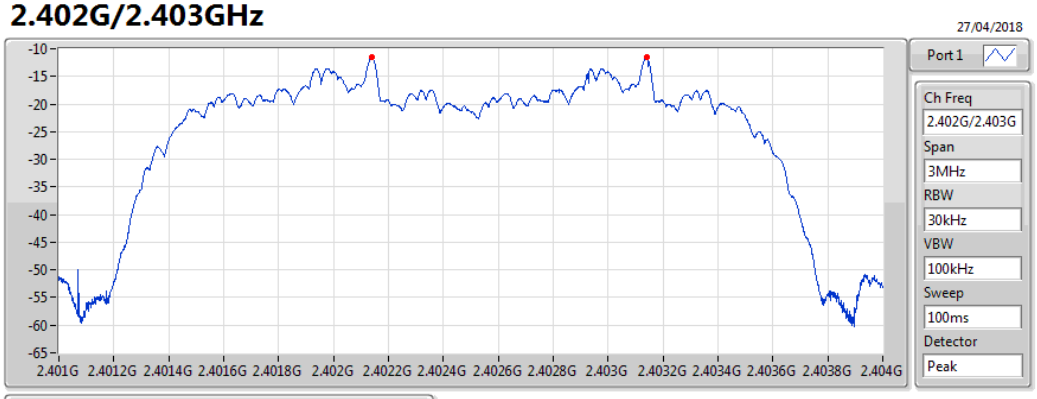
2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479128G	2.480129G	1.0005M	891.108k

BT-EDR(3Mbps) **Channel Separation**

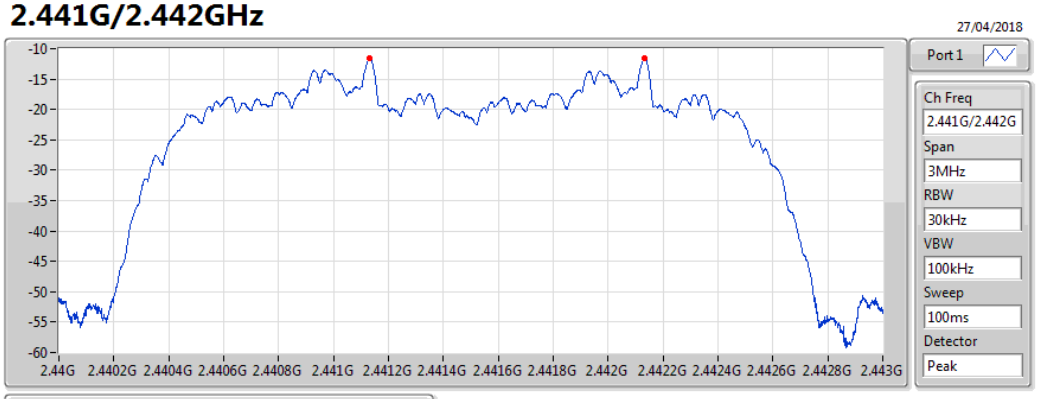
2.402G/2.403GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.402139G	2.403139G	1.0005M	855.81k

BT-EDR(3Mbps) **Channel Separation**

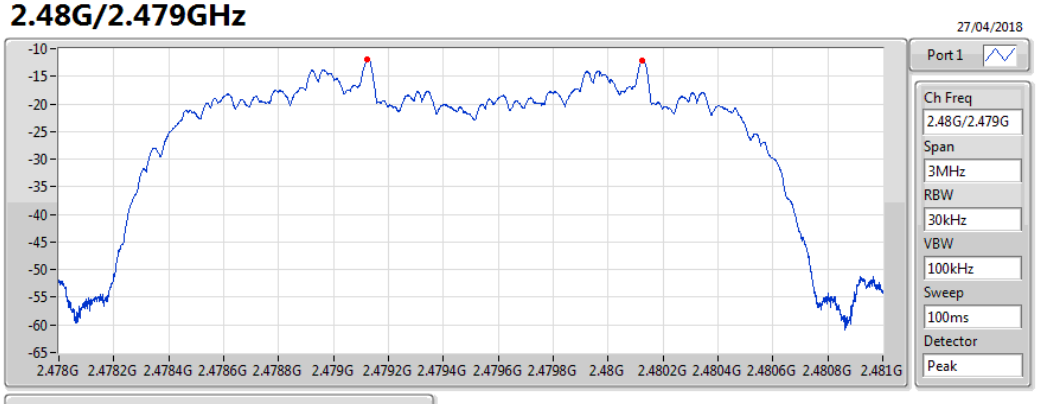
2.441G/2.442GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.441133G	2.442135G	1.002M	855.144k

BT-EDR(3Mbps) **Channel Separation**

2.48G/2.479GHz



Fl(Hz)	Fh(Hz)	Ch.Space(Hz)	Limit(Hz)
2.479124G	2.480126G	1.002M	851.814k

Summary

Mode	Power (dBm)	Power (W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	8.65	0.00733
BT-EDR(2Mbps)	7.35	0.00543
BT-EDR(3Mbps)	7.43	0.00553

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	8.21	21.00
2441MHz	Pass	1.08	8.64	21.00
2480MHz	Pass	1.09	8.65	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	6.97	21.00
2441MHz	Pass	1.08	7.22	21.00
2480MHz	Pass	1.09	7.35	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.37	7.21	21.00
2441MHz	Pass	1.08	7.43	21.00
2480MHz	Pass	1.09	7.22	21.00

Summary

Mode	Power	Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
BT-BR(1Mbps)	8.49	0.00706
BT-EDR(2Mbps)	4.60	0.00288
BT-EDR(3Mbps)	4.52	0.00283

Result

Mode	Result	Gain (dBi)	Power (dBm)	Power Limit (dBm)
BT-BR(1Mbps)	-	-	-	-
2402MHz	Pass	1.37	7.91	21.00
2441MHz	Pass	1.08	8.39	21.00
2480MHz	Pass	1.09	8.49	21.00
BT-EDR(2Mbps)	-	-	-	-
2402MHz	Pass	1.37	4.30	21.00
2441MHz	Pass	1.08	4.47	21.00
2480MHz	Pass	1.09	4.60	21.00
BT-EDR(3Mbps)	-	-	-	-
2402MHz	Pass	1.37	4.36	21.00
2441MHz	Pass	1.08	4.52	21.00
2480MHz	Pass	1.09	4.12	21.00

Summary

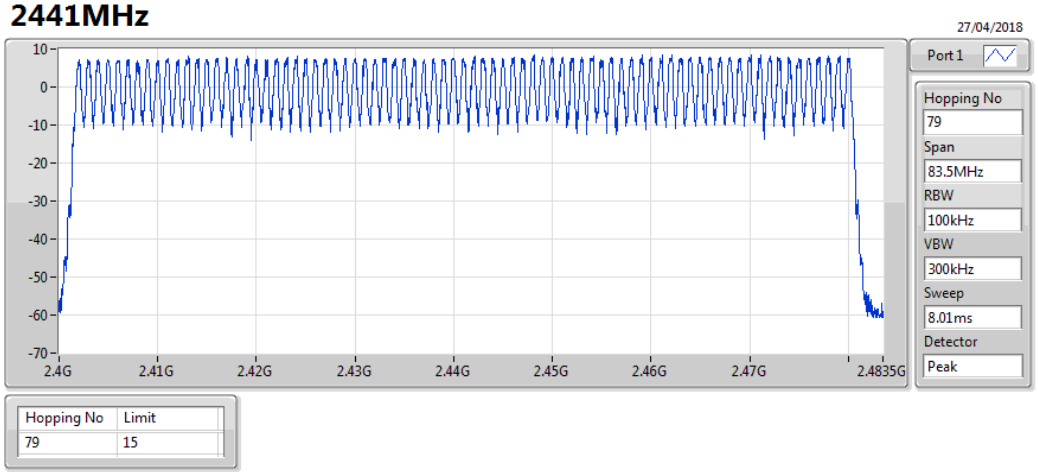
Mode	Max-Hop No
2.4-2.4835GHz	-
BT-BR(1Mbps)	79
BT-EDR(2Mbps)	79
BT-EDR(3Mbps)	79

Result

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

BT-BR(1Mbps) **Hopping Ch**

2441MHz

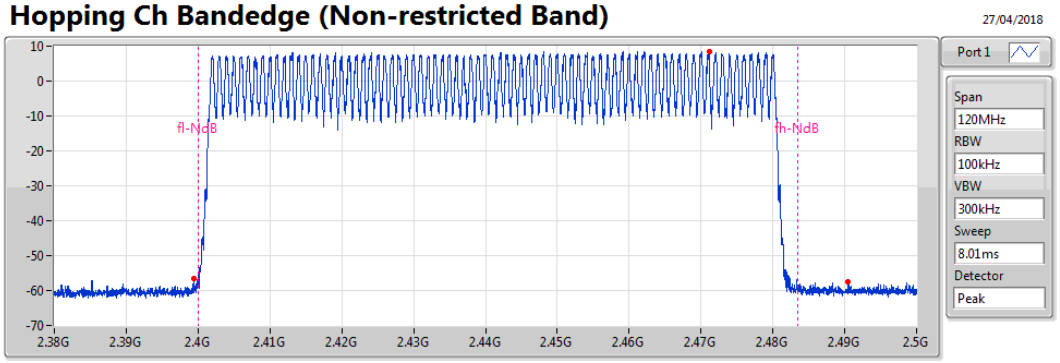


Hopping No	Limit
79	15

BT-BR(1Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

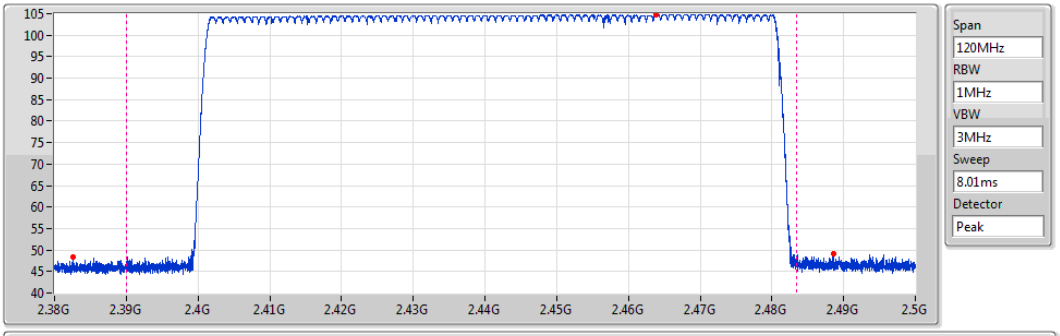


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-11.53	2.471125G	8.47	2.39944G	-56.57	2.49049G	-57.62

BT-BR(1Mbps)

2441MHz

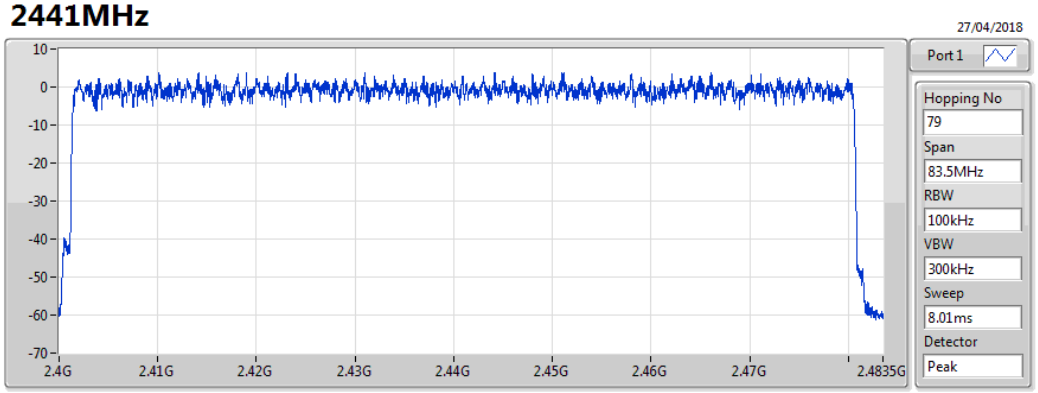
Hopping Ch Bandedge (Restricted Band)



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.46382G	104.84	2.38261G	48.44	17.66	2.48854G	49.22	18.44	74	54	2.891	-30.78

BT-EDR(2Mbps) **Hopping Ch**

2441MHz

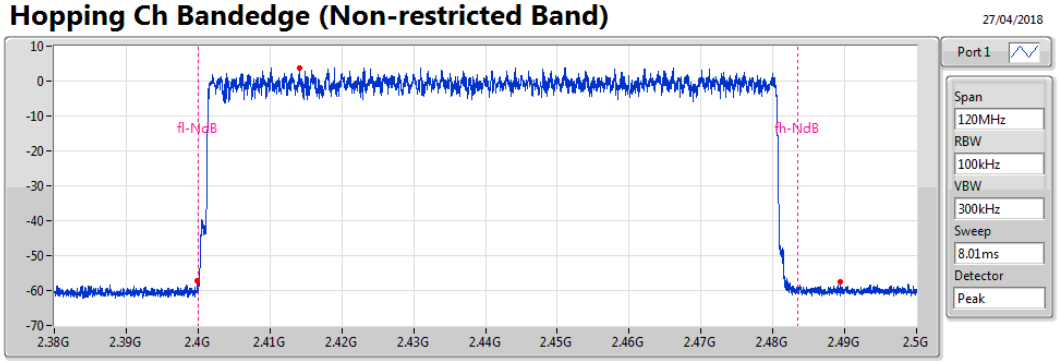


Hopping No	Limit
79	15

BT-EDR(2Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

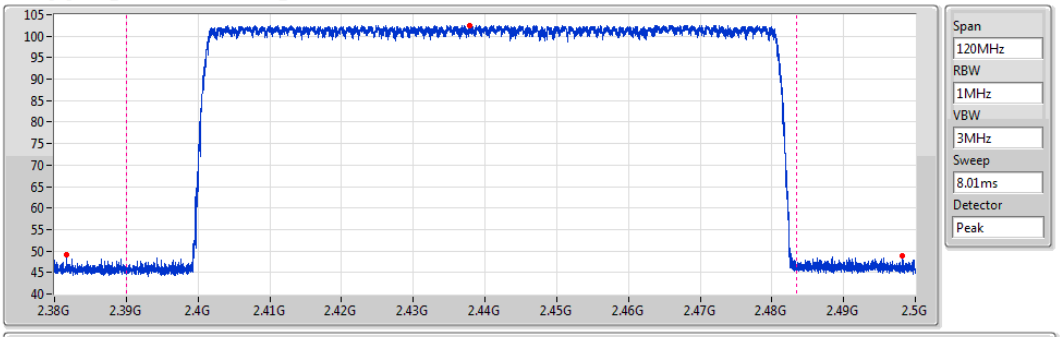


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-16.15	2.41414G	3.85	2.399875G	-57.32	2.48944G	-57.45

BT-EDR(2Mbps)

2441MHz

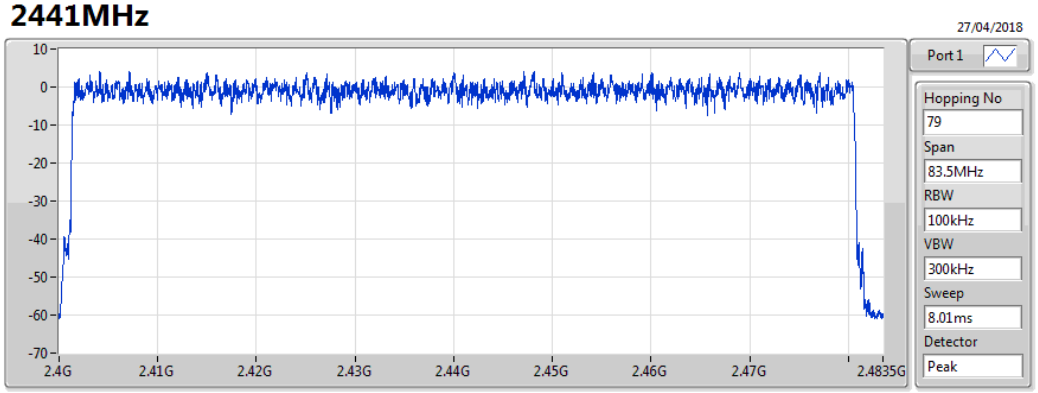
Hopping Ch Bandedge (Restricted Band)



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.437825G	102.56	2.38171G	49.19	18.42	2.49823G	48.97	18.2	74	54	2.894	-30.77

BT-EDR(3Mbps) **Hopping Ch**

2441MHz

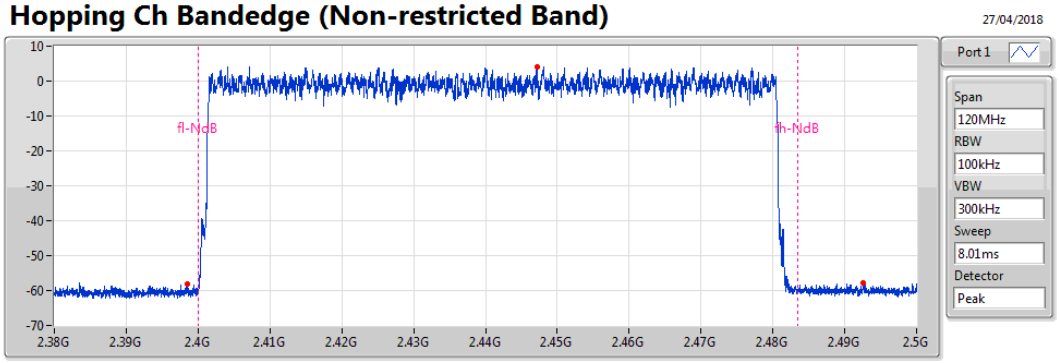


Hopping No	Limit
79	15

BT-EDR(3Mbps)

2441MHz

Hopping Ch Bandedge (Non-restricted Band)

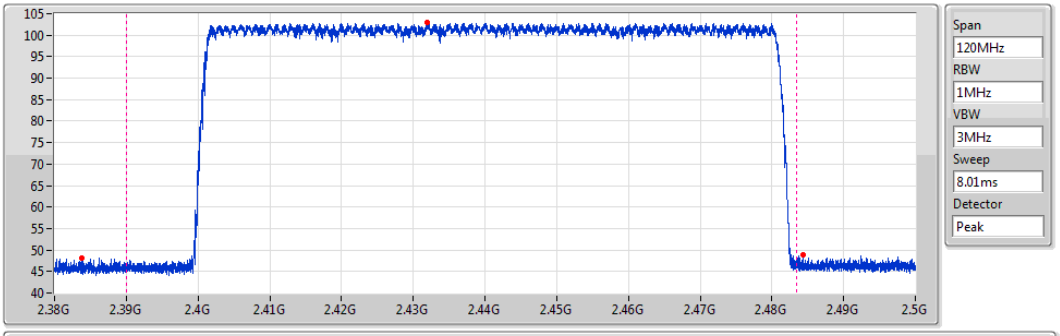


Limit(dBm)	Ref(Hz)	Ref(dBm)	BE-l(Hz)	BE-l(dBm)	BE-h(Hz)	BE-h(dBm)
-16.06	2.44714G	3.94	2.398435G	-58.15	2.49253G	-57.8

BT-EDR(3Mbps)

2441MHz

Hopping Ch Bandedge (Restricted Band)



Ref(Hz)	Ref(dBuV/m)	BE-l(Hz)	PK(dBuV/m)	AV(dBuV/m)	BE-h(Hz)	PK(dBuV/m)	AV(dBuV/m)	LimPK(dBuV/	LimAV(dBuV/	Tx On(ms)	DCF(dB)
2.43199G	102.87	2.38384G	48.09	17.33	2.484385G	48.79	18.03	74	54	2.896	-30.76

Summary

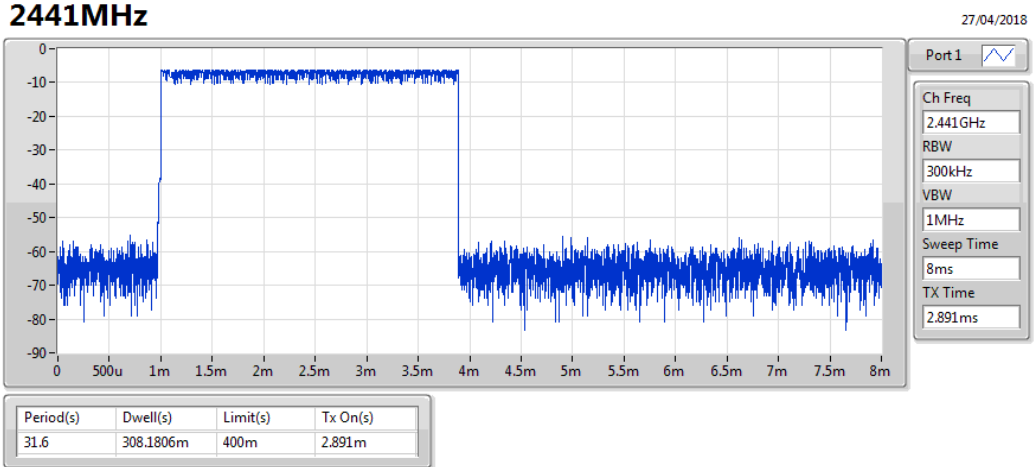
Mode	Max-Dwell (s)
2.4-2.4835GHz	-
BT-BR(1Mbps)	308.1806m
BT-EDR(2Mbps)	308.5004m
BT-EDR(3Mbps)	308.7136m

Result

Mode	Result	Period (s)	Dwell (s)	Limit (s)	Tx On (s)
BT-BR(1Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.1806m	400m	2.891m
BT-EDR(2Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.5004m	400m	2.894m
BT-EDR(3Mbps)	-	-	-	-	-
2441MHz	Pass	31.6	308.7136m	400m	2.896m

BT-BR(1Mbps) **Dwell**

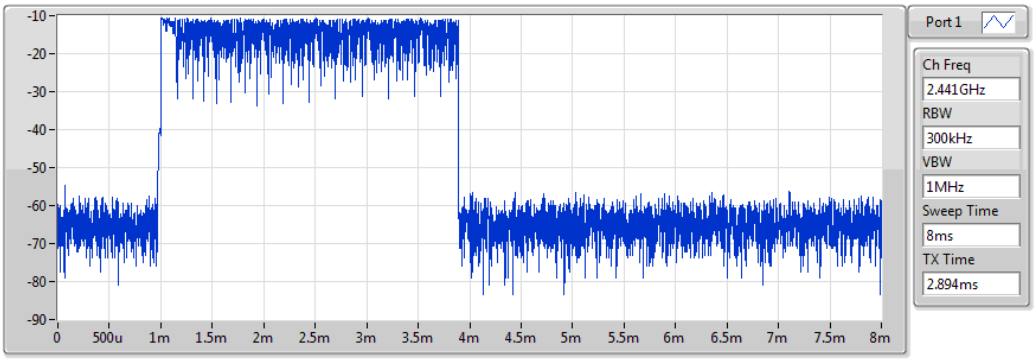
2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.1806m	400m	2.891m

BT-EDR(2Mbps) **Dwell**

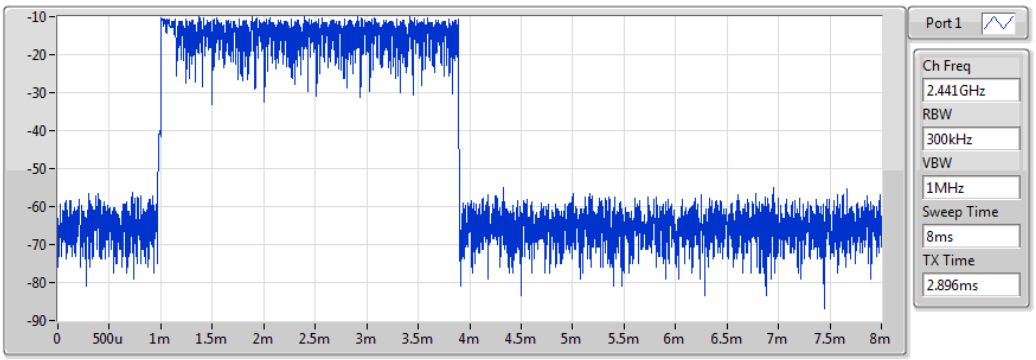
2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.5004m	400m	2.894m

BT-EDR(3Mbps) **Dwell**

2441MHz



Period(s)	Dwell(s)	Limit(s)	Tx On(s)
31.6	308.7136m	400m	2.896m

Summary

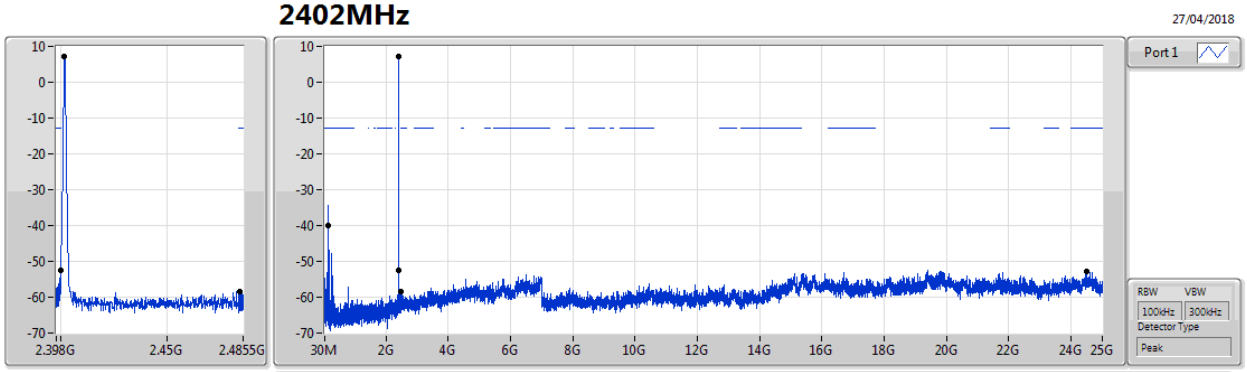
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	2.401837G	7.04	-12.96	147.216M	-39.88	2.399928G	-52.51	2.48396G	-58.29	24.487795G	-52.85	1
BT-EDR(2Mbps)	Pass	2.401837G	1.83	-18.17	147.216M	-39.52	2.3999G	-55.21	2.484152G	-57.33	15.335651G	-52.80	1
BT-EDR(3Mbps)	Pass	2.441082G	1.52	-18.48	147.216M	-39.78	2.399432G	-58.63	2.484984G	-58.93	24.628511G	-53.15	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	Pass	2.401837G	7.04	-12.96	147.216M	-39.88	2.399928G	-52.51	2.48396G	-58.29	24.487795G	-52.85	1
2441MHz	Pass	2.440915G	7.69	-12.31	147.216M	-39.51	2.399372G	-58.37	2.483872G	-58.46	24.628511G	-53.18	1
2480MHz	Pass	2.479993G	7.68	-12.32	147.216M	-39.56	2.3994G	-58.11	2.483896G	-55.88	24.397737G	-51.97	1
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.401837G	1.83	-18.17	147.216M	-39.52	2.3999G	-55.21	2.484152G	-57.33	15.335651G	-52.80	1
2441MHz	Pass	2.441082G	2.42	-17.58	147.216M	-39.53	2.399292G	-58.68	2.484424G	-58.09	6.965886G	-52.37	1
2480MHz	Pass	2.479993G	2.31	-17.69	147.216M	-39.68	2.399452G	-59.07	2.484256G	-56.89	24.501867G	-52.33	1
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	2.402004G	2.43	-17.57	147.216M	-39.53	2.399956G	-55.17	2.484144G	-58.74	15.012005G	-53.03	1
2441MHz	Pass	2.441082G	1.52	-18.48	147.216M	-39.78	2.399432G	-58.63	2.484984G	-58.93	24.628511G	-53.15	1
2480MHz	Pass	2.479993G	1.74	-18.26	147.216M	-39.59	2.399788G	-58.60	2.484544G	-57.45	24.496238G	-51.91	1

BT-BR(1Mbps) **CSE NdB**

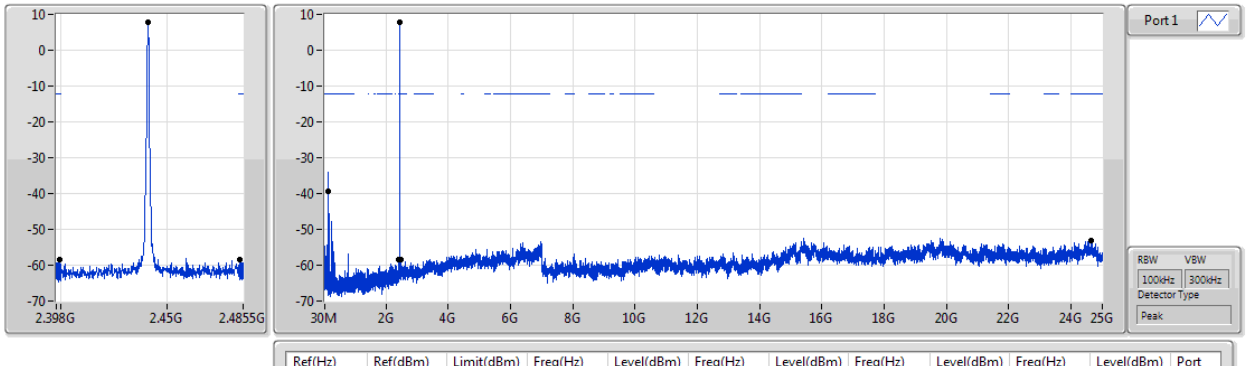
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.401837G	7.04	-12.96	147.216M	-39.88	2.399928G	-52.51	2.48396G	-58.29	24.487795G	-52.85	1

BT-BR(1Mbps) **CSE NdB**

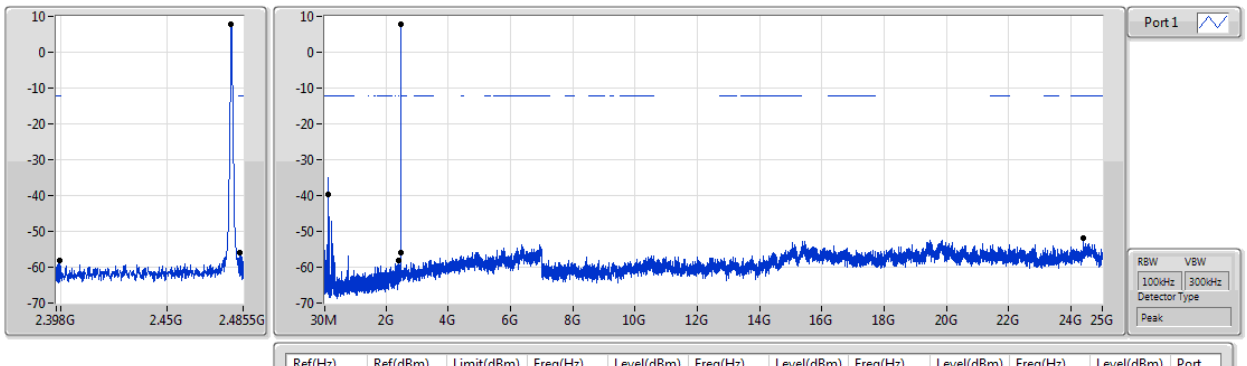
2441MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.440915G	7.69	-12.31	147.216M	-39.51	2.399372G	-58.37	2.483872G	-58.46	24.628511G	-53.18	1

BT-BR(1Mbps) **CSE NdB**

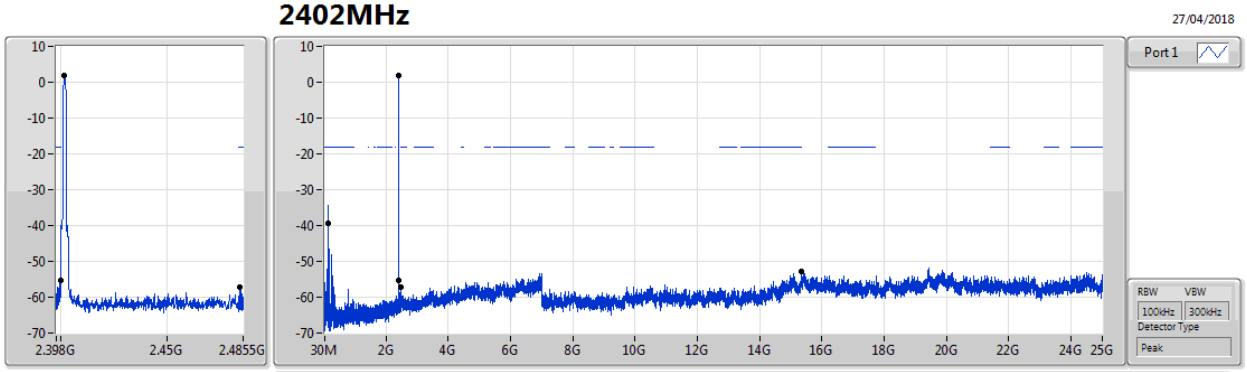
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.479993G	7.68	-12.32	147.216M	-39.56	2.3994G	-58.11	2.483896G	-55.88	24.397737G	-51.97	1

BT-EDR(2Mbps) **CSE NdB**

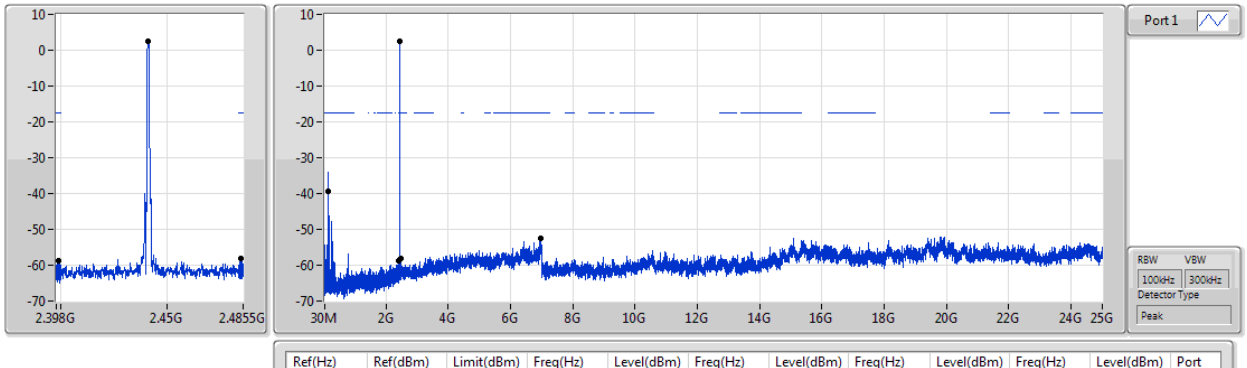
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.401837G	1.83	-18.17	147.216M	-39.52	2.3999G	-55.21	2.484152G	-57.33	15.335651G	-52.80	1

BT-EDR(2Mbps) **CSE NdB**

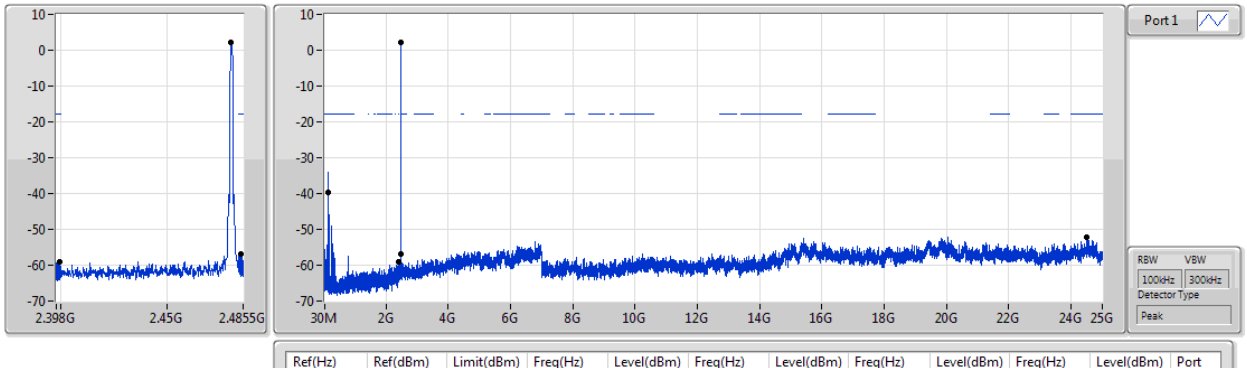
2441MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.441082G	2.42	-17.58	147.216M	-39.53	2.399292G	-58.68	2.484424G	-58.09	6.965886G	-52.37	1

BT-EDR(2Mbps) **CSE NdB**

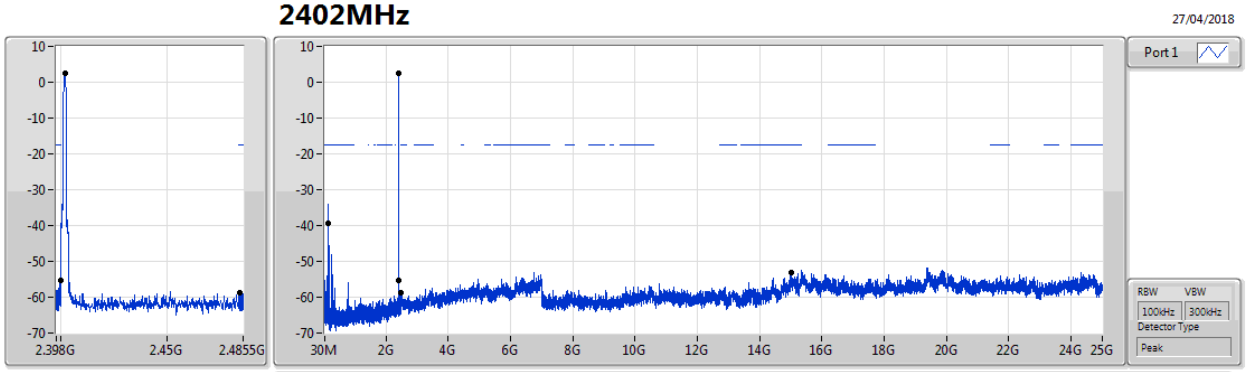
2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.479993G	2.31	-17.69	147.216M	-39.68	2.399452G	-59.07	2.484256G	-56.89	24.501867G	-52.33	1

BT-EDR(3Mbps) **CSE NdB**

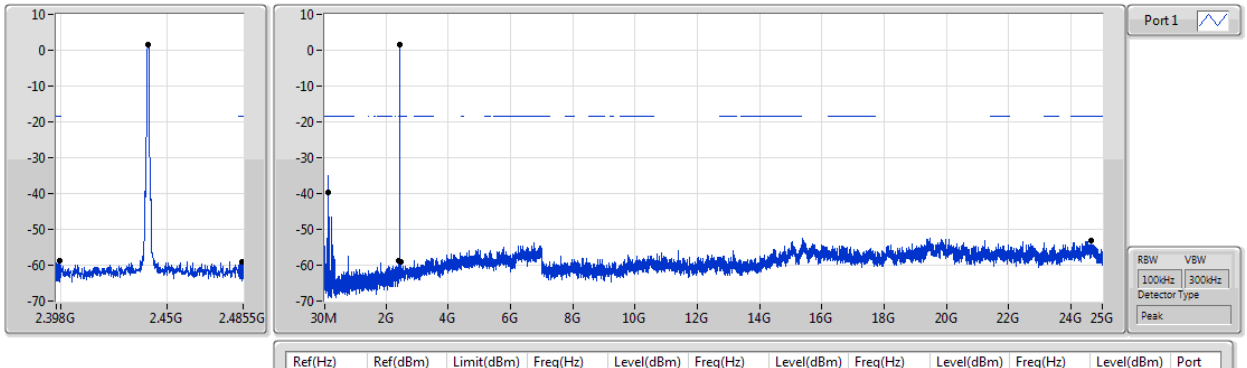
2402MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.402004G	2.43	-17.57	147.216M	-39.53	2.399956G	-55.17	2.484144G	-58.74	15.012005G	-53.03	1

BT-EDR(3Mbps) **CSE NdB**

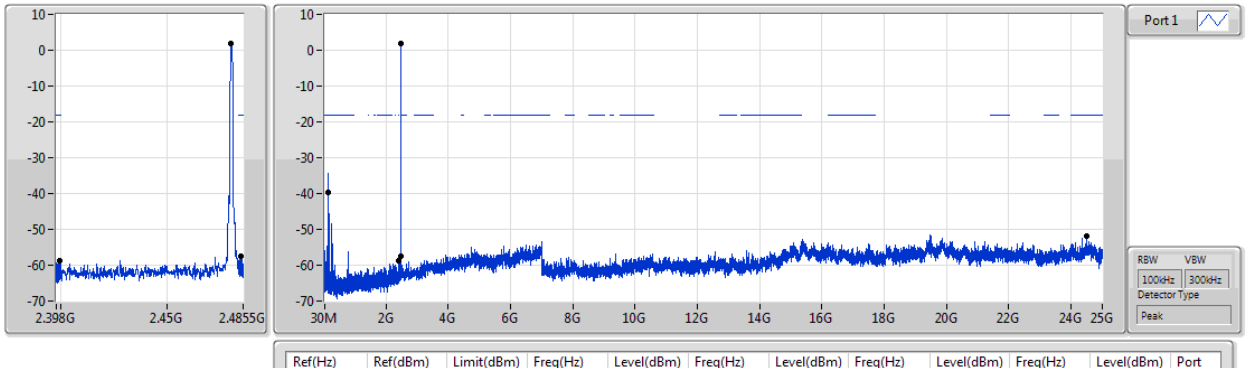
2441MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.441082G	1.52	-18.48	147.216M	-39.78	2.399432G	-58.63	2.484984G	-58.93	24.628511G	-53.15	1

BT-EDR(3Mbps) **CSE NdB**

2480MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.479993G	1.74	-18.26	147.216M	-39.59	2.399788G	-58.60	2.484544G	-57.45	24.496238G	-51.91	1

Summary

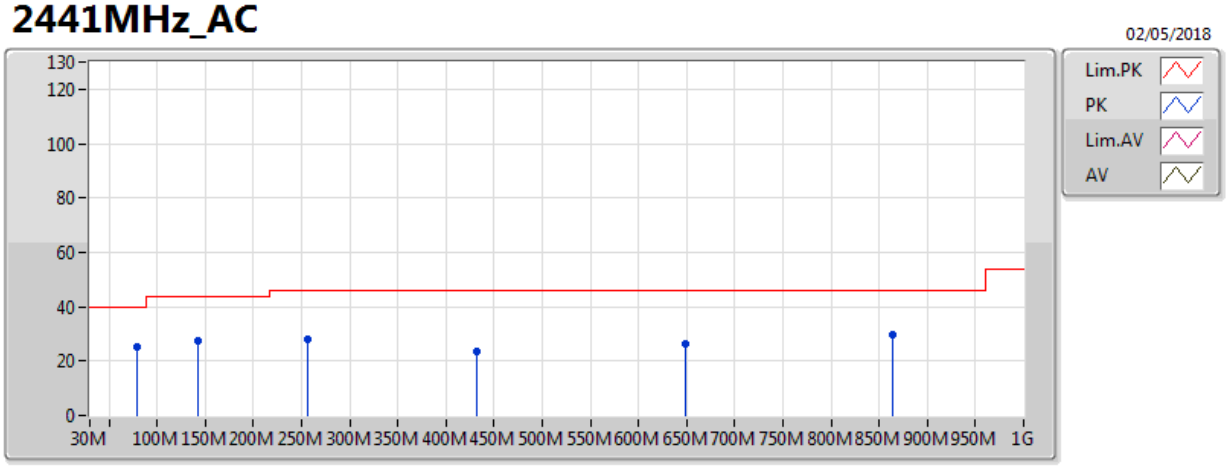
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
BT-BR(1Mbps)	Pass	PK	256.98M	33.35	46.00	-12.65	-15.85	3	Horizontal	360	1.00	-

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	78.5M	25.34	40.00	-14.66	-24.11	3	Vertical	0	1.00	-
2441MHz	Pass	PK	142.52M	27.37	43.50	-16.13	-19.21	3	Vertical	0	1.00	-
2441MHz	Pass	PK	256.98M	27.85	46.00	-18.15	-15.85	3	Vertical	0	1.00	-
2441MHz	Pass	PK	431.58M	23.29	46.00	-22.71	-12.93	3	Vertical	0	1.00	-
2441MHz	Pass	PK	648.86M	26.22	46.00	-19.78	-9.68	3	Vertical	0	1.00	-
2441MHz	Pass	PK	864.2M	29.85	46.00	-16.15	-6.78	3	Vertical	0	1.00	-
2441MHz	Pass	PK	103.72M	24.40	43.50	-19.10	-20.61	3	Horizontal	360	1.00	-
2441MHz	Pass	PK	218.18M	26.27	46.00	-19.73	-20.71	3	Horizontal	360	1.00	-
2441MHz	Pass	PK	256.98M	33.35	46.00	-12.65	-15.85	3	Horizontal	360	1.00	-
2441MHz	Pass	PK	458.74M	23.30	46.00	-22.70	-12.53	3	Horizontal	360	1.00	-
2441MHz	Pass	PK	557.68M	28.82	46.00	-17.18	-10.24	3	Horizontal	360	1.00	-
2441MHz	Pass	PK	819.58M	31.47	46.00	-14.53	-7.75	3	Horizontal	360	1.00	-

BT-BR(1Mbps)

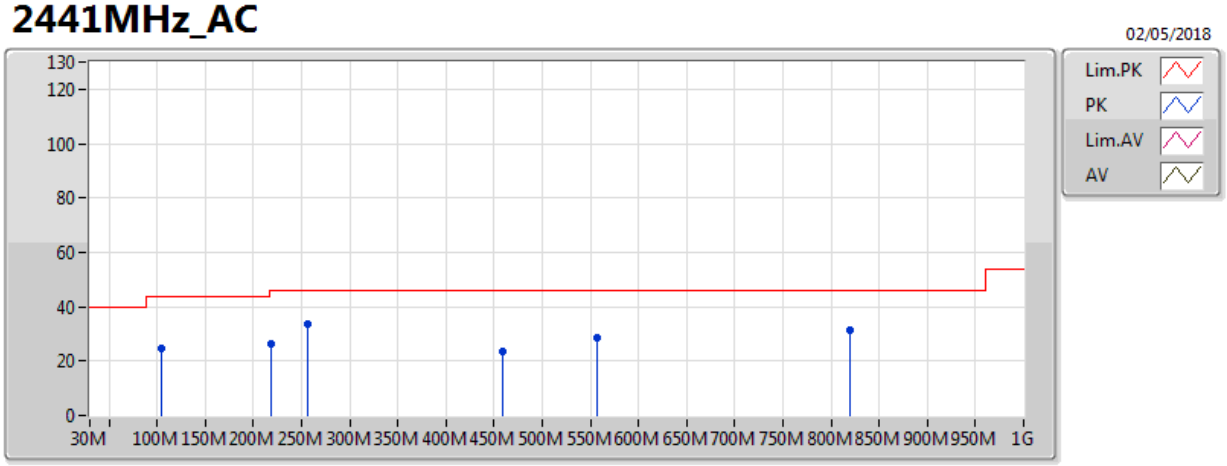
2441MHz_AC



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	78.5M	25.34	40.00	-14.66	-24.11	3	Vertical	0	1.00	-
PK	142.52M	27.37	43.50	-16.13	-19.21	3	Vertical	0	1.00	-
PK	256.98M	27.85	46.00	-18.15	-15.85	3	Vertical	0	1.00	-
PK	431.58M	23.29	46.00	-22.71	-12.93	3	Vertical	0	1.00	-
PK	648.86M	26.22	46.00	-19.78	-9.68	3	Vertical	0	1.00	-
PK	864.2M	29.85	46.00	-16.15	-6.78	3	Vertical	0	1.00	-

BT-BR(1Mbps)

2441MHz_AC



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	103.72M	24.40	43.50	-19.10	-20.61	3	Horizontal	360	1.00	-
PK	218.18M	26.27	46.00	-19.73	-20.71	3	Horizontal	360	1.00	-
PK	256.98M	33.35	46.00	-12.65	-15.85	3	Horizontal	360	1.00	-
PK	458.74M	23.30	46.00	-22.70	-12.53	3	Horizontal	360	1.00	-
PK	557.68M	28.82	46.00	-17.18	-10.24	3	Horizontal	360	1.00	-
PK	819.58M	31.47	46.00	-14.53	-7.75	3	Horizontal	360	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	4.96018G	46.34	54.00	-7.66	4.82	3	Vertical	318	1.21	-
BT-EDR(2Mbps)	Pass	AV	2.495G	45.94	54.00	-8.06	34.07	3	Vertical	322	2.48	-
BT-EDR(3Mbps)	Pass	AV	2.4998G	45.95	54.00	-8.05	34.07	3	Vertical	344	2.48	-

Result

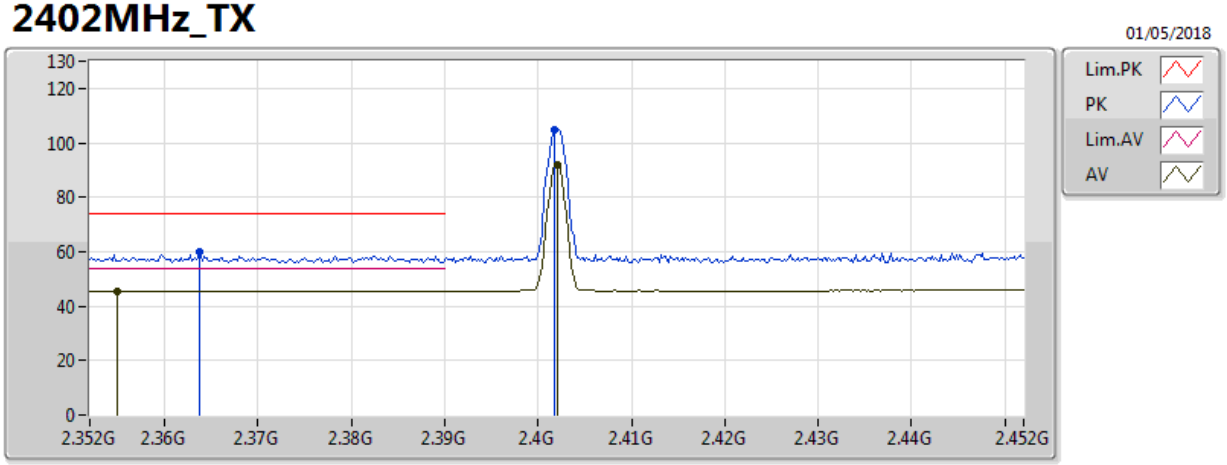
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
BT-BR(1Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.355G	45.55	54.00	-8.45	34.05	3	Vertical	344	2.60	-
2402MHz	Pass	AV	2.402G	92.03	Inf	-Inf	34.05	3	Vertical	344	2.60	-
2402MHz	Pass	PK	2.3638G	60.04	74.00	-13.96	34.04	3	Vertical	344	2.60	-
2402MHz	Pass	PK	2.4018G	104.55	Inf	-Inf	34.05	3	Vertical	344	2.60	-
2402MHz	Pass	AV	2.386G	45.55	54.00	-8.45	34.05	3	Horizontal	40	1.20	-
2402MHz	Pass	AV	2.402G	93.24	Inf	-Inf	34.05	3	Horizontal	40	1.20	-
2402MHz	Pass	PK	2.3808G	59.84	74.00	-14.16	34.05	3	Horizontal	40	1.20	-
2402MHz	Pass	PK	2.4018G	106.02	Inf	-Inf	34.05	3	Horizontal	40	1.20	-
2402MHz	Pass	AV	4.08441G	40.45	54.00	-13.55	1.76	3	Vertical	311	1.02	-
2402MHz	Pass	PK	4.08441G	49.24	74.00	-24.76	1.76	3	Vertical	311	1.02	-
2402MHz	Pass	AV	4.08441G	37.54	54.00	-16.46	1.76	3	Horizontal	212	1.04	-
2402MHz	Pass	PK	4.08441G	46.50	74.00	-27.50	1.76	3	Horizontal	212	1.04	-
2441MHz	Pass	AV	2.353G	45.55	54.00	-8.45	34.05	3	Vertical	329	2.50	-
2441MHz	Pass	AV	2.441G	92.73	Inf	-Inf	34.06	3	Vertical	329	2.50	-
2441MHz	Pass	AV	2.489G	45.94	54.00	-8.06	34.07	3	Vertical	329	2.50	-
2441MHz	Pass	PK	2.381G	59.45	74.00	-14.55	34.05	3	Vertical	329	2.50	-
2441MHz	Pass	PK	2.441G	105.42	Inf	-Inf	34.06	3	Vertical	329	2.50	-
2441MHz	Pass	PK	2.4898G	58.52	74.00	-15.48	34.07	3	Vertical	329	2.50	-
2441MHz	Pass	AV	2.3574G	45.54	54.00	-8.46	34.05	3	Horizontal	42	1.02	-
2441MHz	Pass	AV	2.441G	93.09	Inf	-Inf	34.06	3	Horizontal	42	1.02	-
2441MHz	Pass	AV	2.4942G	45.95	54.00	-8.05	34.07	3	Horizontal	42	1.02	-
2441MHz	Pass	PK	2.3518G	59.46	74.00	-14.54	34.05	3	Horizontal	42	1.02	-
2441MHz	Pass	PK	2.441G	105.90	Inf	-Inf	34.06	3	Horizontal	42	1.02	-
2441MHz	Pass	PK	2.487G	59.79	74.00	-14.21	34.07	3	Horizontal	42	1.02	-
2441MHz	Pass	AV	4.88194G	38.30	54.00	-15.70	4.52	3	Vertical	173	1.26	-
2441MHz	Pass	PK	4.88194G	47.50	74.00	-26.50	4.52	3	Vertical	173	1.26	-
2441MHz	Pass	AV	4.88194G	39.36	54.00	-14.64	4.52	3	Horizontal	175	1.35	-
2441MHz	Pass	PK	4.88194G	48.64	74.00	-25.36	4.52	3	Horizontal	175	1.35	-
2480MHz	Pass	AV	2.48G	92.19	Inf	-Inf	34.07	3	Vertical	359	2.46	-
2480MHz	Pass	AV	2.4836G	45.94	54.00	-8.06	34.07	3	Vertical	359	2.46	-
2480MHz	Pass	PK	2.4798G	104.70	Inf	-Inf	34.07	3	Vertical	359	2.46	-
2480MHz	Pass	PK	2.4862G	58.72	74.00	-15.28	34.07	3	Vertical	359	2.46	-
2480MHz	Pass	AV	2.48G	92.71	Inf	-Inf	34.07	3	Horizontal	46	1.17	-
2480MHz	Pass	AV	2.483502G	46.01	54.00	-7.99	34.07	3	Horizontal	46	1.17	-
2480MHz	Pass	PK	2.4798G	105.39	Inf	-Inf	34.07	3	Horizontal	46	1.17	-
2480MHz	Pass	PK	2.4936G	59.71	74.00	-14.29	34.06	3	Horizontal	46	1.17	-
2480MHz	Pass	AV	4.96018G	46.34	54.00	-7.66	4.82	3	Vertical	318	1.21	-
2480MHz	Pass	PK	4.96018G	53.33	74.00	-20.67	4.82	3	Vertical	318	1.21	-
2480MHz	Pass	AV	4.95994G	43.59	54.00	-10.41	4.82	3	Horizontal	174	2.57	-
2480MHz	Pass	PK	4.95994G	47.87	74.00	-26.13	4.82	3	Horizontal	174	2.57	-
BT-EDR(2Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3544G	45.54	54.00	-8.46	34.05	3	Vertical	325	2.59	-
2402MHz	Pass	AV	2.402G	88.15	Inf	-Inf	34.05	3	Vertical	325	2.59	-
2402MHz	Pass	PK	2.3836G	59.40	74.00	-14.60	34.05	3	Vertical	325	2.59	-
2402MHz	Pass	PK	2.4022G	102.85	Inf	-Inf	34.05	3	Vertical	325	2.59	-
2402MHz	Pass	AV	2.3644G	45.54	54.00	-8.46	34.05	3	Horizontal	40	1.18	-
2402MHz	Pass	AV	2.402G	88.58	Inf	-Inf	34.05	3	Horizontal	40	1.18	-

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	2.3726G	58.67	74.00	-15.33	34.05	3	Horizontal	40	1.18	-
2402MHz	Pass	PK	2.4022G	103.39	Inf	-Inf	34.05	3	Horizontal	40	1.18	-
2441MHz	Pass	AV	2.3562G	45.55	54.00	-8.45	34.05	3	Vertical	322	2.48	-
2441MHz	Pass	AV	2.441G	87.72	Inf	-Inf	34.06	3	Vertical	322	2.48	-
2441MHz	Pass	AV	2.495G	45.94	54.00	-8.06	34.07	3	Vertical	322	2.48	-
2441MHz	Pass	PK	2.3426G	58.89	74.00	-15.11	34.04	3	Vertical	322	2.48	-
2441MHz	Pass	PK	2.441G	102.38	Inf	-Inf	34.06	3	Vertical	322	2.48	-
2441MHz	Pass	PK	2.4894G	58.53	74.00	-15.47	34.07	3	Vertical	322	2.48	-
2441MHz	Pass	AV	2.3458G	45.53	54.00	-8.47	34.04	3	Horizontal	43	1.56	-
2441MHz	Pass	AV	2.441G	88.58	Inf	-Inf	34.06	3	Horizontal	43	1.56	-
2441MHz	Pass	AV	2.4886G	45.93	54.00	-8.07	34.07	3	Horizontal	43	1.56	-
2441MHz	Pass	PK	2.3502G	59.25	74.00	-14.75	34.05	3	Horizontal	43	1.56	-
2441MHz	Pass	PK	2.441G	103.36	Inf	-Inf	34.06	3	Horizontal	43	1.56	-
2441MHz	Pass	PK	2.4878G	58.93	74.00	-15.07	34.07	3	Horizontal	43	1.56	-
2480MHz	Pass	AV	2.48G	87.26	Inf	-Inf	34.07	3	Vertical	0	2.47	-
2480MHz	Pass	AV	2.484G	45.90	54.00	-8.10	34.07	3	Vertical	0	2.47	-
2480MHz	Pass	PK	2.4798G	101.72	Inf	-Inf	34.07	3	Vertical	0	2.47	-
2480MHz	Pass	PK	2.4936G	60.06	74.00	-13.94	34.06	3	Vertical	0	2.47	-
2480MHz	Pass	AV	2.48G	88.21	Inf	-Inf	34.07	3	Horizontal	39	1.06	-
2480MHz	Pass	AV	2.483502G	45.91	54.00	-8.09	34.07	3	Horizontal	39	1.06	-
2480MHz	Pass	PK	2.4798G	102.93	Inf	-Inf	34.07	3	Horizontal	39	1.06	-
2480MHz	Pass	PK	2.4988G	59.38	74.00	-14.62	34.07	3	Horizontal	39	1.06	-
BT-EDR(3Mbps)	-	-	-	-	-	-	-	-	-	-	-	-
2402MHz	Pass	AV	2.3582G	45.51	54.00	-8.49	34.05	3	Vertical	359	2.61	-
2402MHz	Pass	AV	2.402G	87.49	Inf	-Inf	34.05	3	Vertical	359	2.61	-
2402MHz	Pass	PK	2.375G	59.00	74.00	-15.00	34.05	3	Vertical	359	2.61	-
2402MHz	Pass	PK	2.4022G	102.19	Inf	-Inf	34.05	3	Vertical	359	2.61	-
2402MHz	Pass	AV	2.3554G	45.53	54.00	-8.47	34.05	3	Horizontal	33	1.87	-
2402MHz	Pass	AV	2.402G	88.36	Inf	-Inf	34.05	3	Horizontal	33	1.87	-
2402MHz	Pass	PK	2.3552G	58.74	74.00	-15.26	34.05	3	Horizontal	33	1.87	-
2402MHz	Pass	PK	2.402G	103.30	Inf	-Inf	34.05	3	Horizontal	33	1.87	-
2441MHz	Pass	AV	2.3566G	45.56	54.00	-8.44	34.05	3	Vertical	344	2.48	-
2441MHz	Pass	AV	2.441G	87.44	Inf	-Inf	34.06	3	Vertical	344	2.48	-
2441MHz	Pass	AV	2.4998G	45.95	54.00	-8.05	34.07	3	Vertical	344	2.48	-
2441MHz	Pass	PK	2.3846G	58.69	74.00	-15.31	34.05	3	Vertical	344	2.48	-
2441MHz	Pass	PK	2.441G	102.13	Inf	-Inf	34.06	3	Vertical	344	2.48	-
2441MHz	Pass	PK	2.4962G	59.22	74.00	-14.78	34.07	3	Vertical	344	2.48	-
2441MHz	Pass	AV	2.3566G	45.53	54.00	-8.47	34.05	3	Horizontal	41	1.17	-
2441MHz	Pass	AV	2.441G	88.49	Inf	-Inf	34.06	3	Horizontal	41	1.17	-
2441MHz	Pass	AV	2.4902G	45.91	54.00	-8.09	34.07	3	Horizontal	41	1.17	-
2441MHz	Pass	PK	2.3466G	59.44	74.00	-14.56	34.04	3	Horizontal	41	1.17	-
2441MHz	Pass	PK	2.441G	103.46	Inf	-Inf	34.06	3	Horizontal	41	1.17	-
2441MHz	Pass	PK	2.4846G	58.79	74.00	-15.21	34.07	3	Horizontal	41	1.17	-
2480MHz	Pass	AV	2.48G	87.87	Inf	-Inf	34.07	3	Vertical	348	2.46	-
2480MHz	Pass	AV	2.483502G	45.91	54.00	-8.09	34.07	3	Vertical	348	2.46	-
2480MHz	Pass	PK	2.48G	102.74	Inf	-Inf	34.07	3	Vertical	348	2.46	-
2480MHz	Pass	PK	2.4894G	59.87	74.00	-14.13	34.07	3	Vertical	348	2.46	-
2480MHz	Pass	AV	2.48G	88.50	Inf	-Inf	34.07	3	Horizontal	33	1.02	-
2480MHz	Pass	AV	2.4836G	45.94	54.00	-8.06	34.07	3	Horizontal	33	1.02	-

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	103.49	Inf	-Inf	34.07	3	Horizontal	33	1.02	-
2480MHz	Pass	PK	2.4862G	58.94	74.00	-15.06	34.07	3	Horizontal	33	1.02	-

BT-BR(1Mbps)

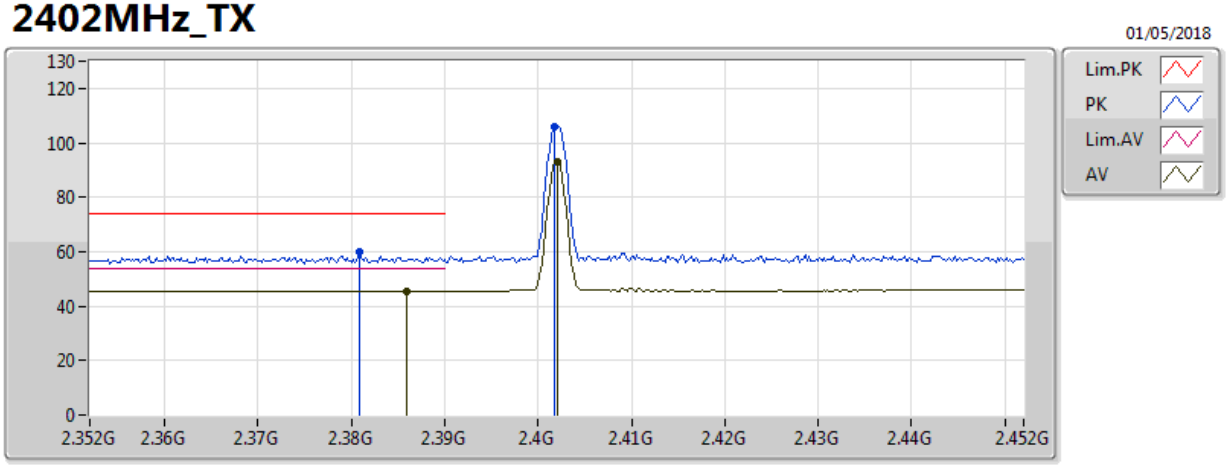
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.355G	45.55	54.00	-8.45	34.05	3	Vertical	344	2.60	-
AV	2.402G	92.03	Inf	-Inf	34.05	3	Vertical	344	2.60	-
PK	2.3638G	60.04	74.00	-13.96	34.04	3	Vertical	344	2.60	-
PK	2.4018G	104.55	Inf	-Inf	34.05	3	Vertical	344	2.60	-

BT-BR(1Mbps)

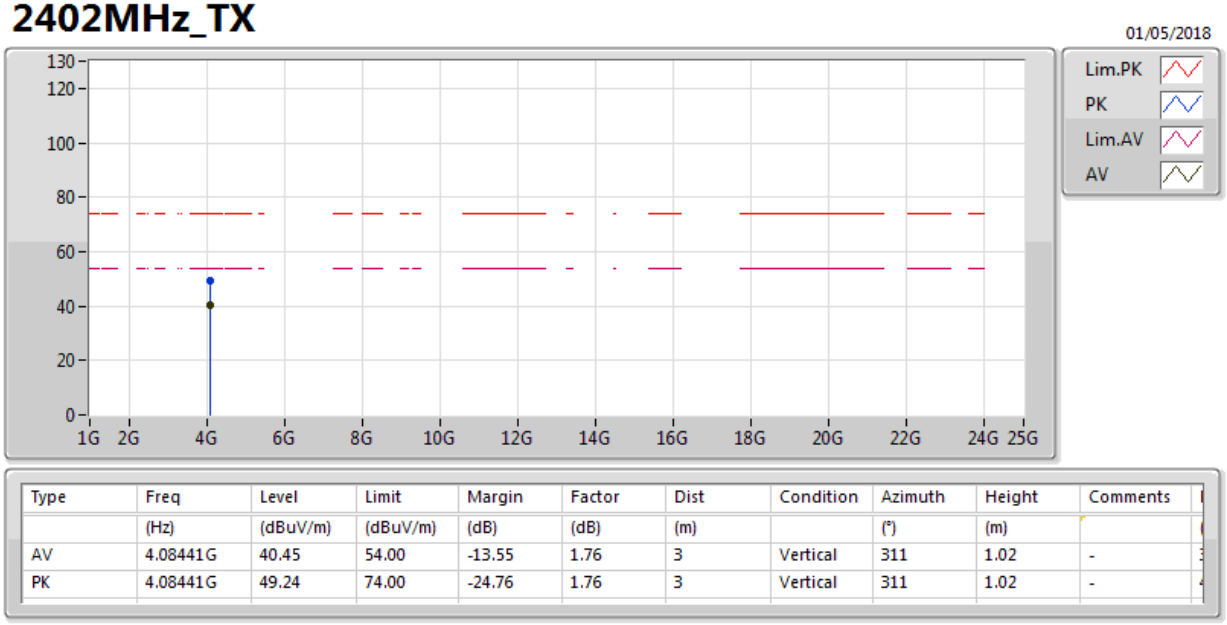
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.386G	45.55	54.00	-8.45	34.05	3	Horizontal	40	1.20	-
AV	2.402G	93.24	Inf	-Inf	34.05	3	Horizontal	40	1.20	-
PK	2.3808G	59.84	74.00	-14.16	34.05	3	Horizontal	40	1.20	-
PK	2.4018G	106.02	Inf	-Inf	34.05	3	Horizontal	40	1.20	-

BT-BR(1Mbps)

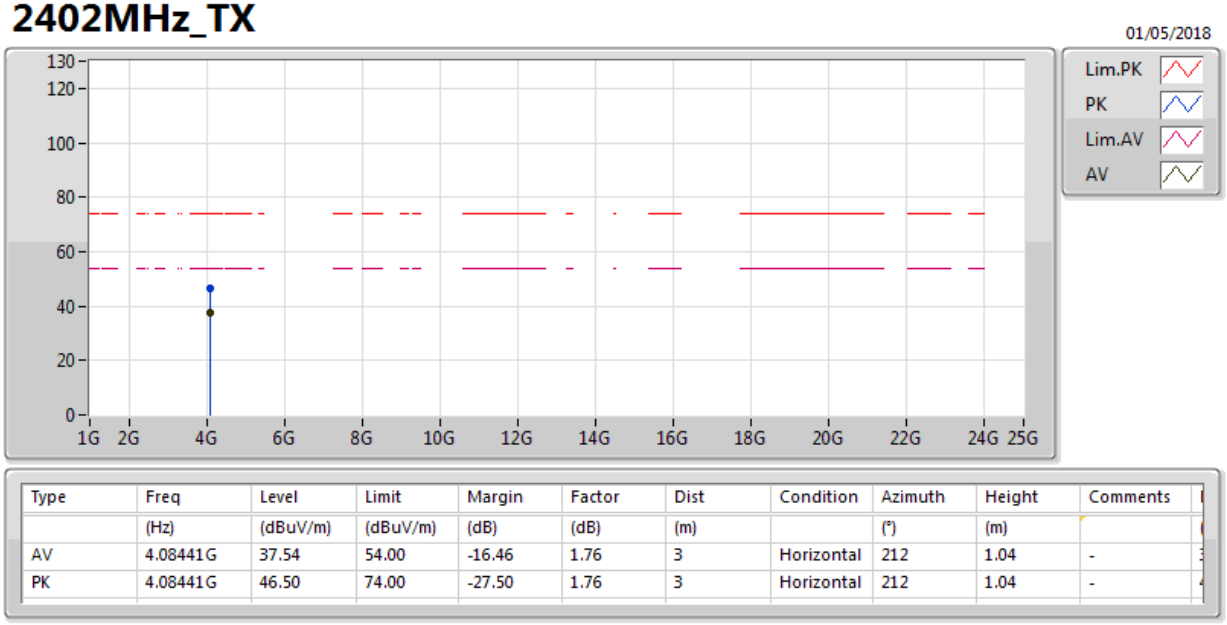
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.08441G	40.45	54.00	-13.55	1.76	3	Vertical	311	1.02	-
PK	4.08441G	49.24	74.00	-24.76	1.76	3	Vertical	311	1.02	-

BT-BR(1Mbps)

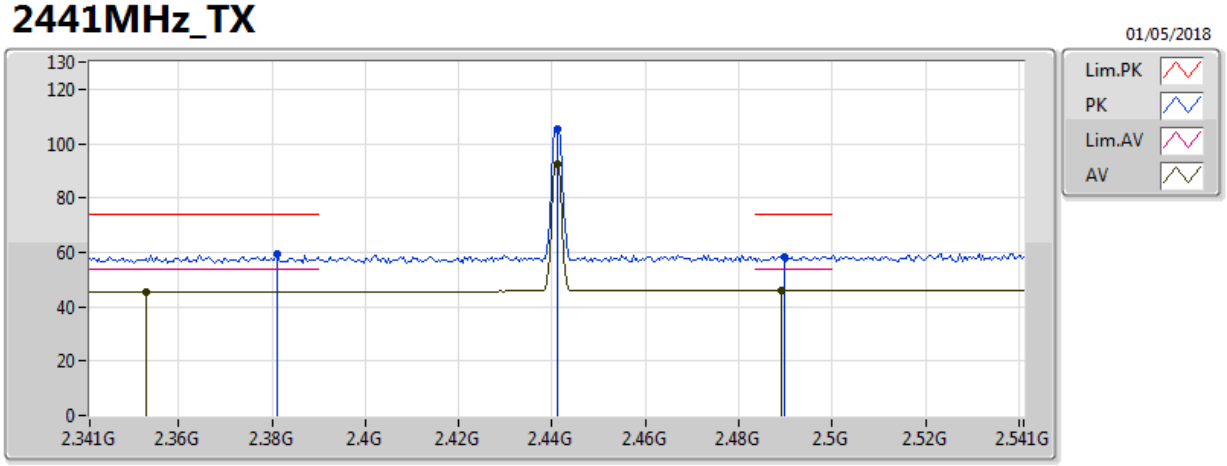
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.08441G	37.54	54.00	-16.46	1.76	3	Horizontal	212	1.04	-
PK	4.08441G	46.50	74.00	-27.50	1.76	3	Horizontal	212	1.04	-

BT-BR(1Mbps)

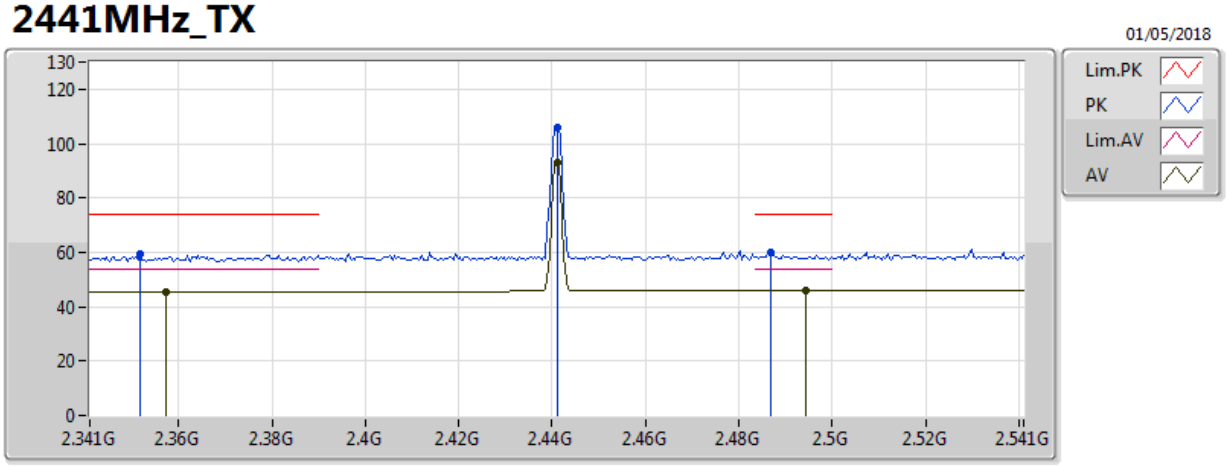
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.353G	45.55	54.00	-8.45	34.05	3	Vertical	329	2.50	-
AV	2.441G	92.73	Inf	-Inf	34.06	3	Vertical	329	2.50	-
AV	2.489G	45.94	54.00	-8.06	34.07	3	Vertical	329	2.50	-
PK	2.381G	59.45	74.00	-14.55	34.05	3	Vertical	329	2.50	-
PK	2.441G	105.42	Inf	-Inf	34.06	3	Vertical	329	2.50	-
PK	2.4898G	58.52	74.00	-15.48	34.07	3	Vertical	329	2.50	-

BT-BR(1Mbps)

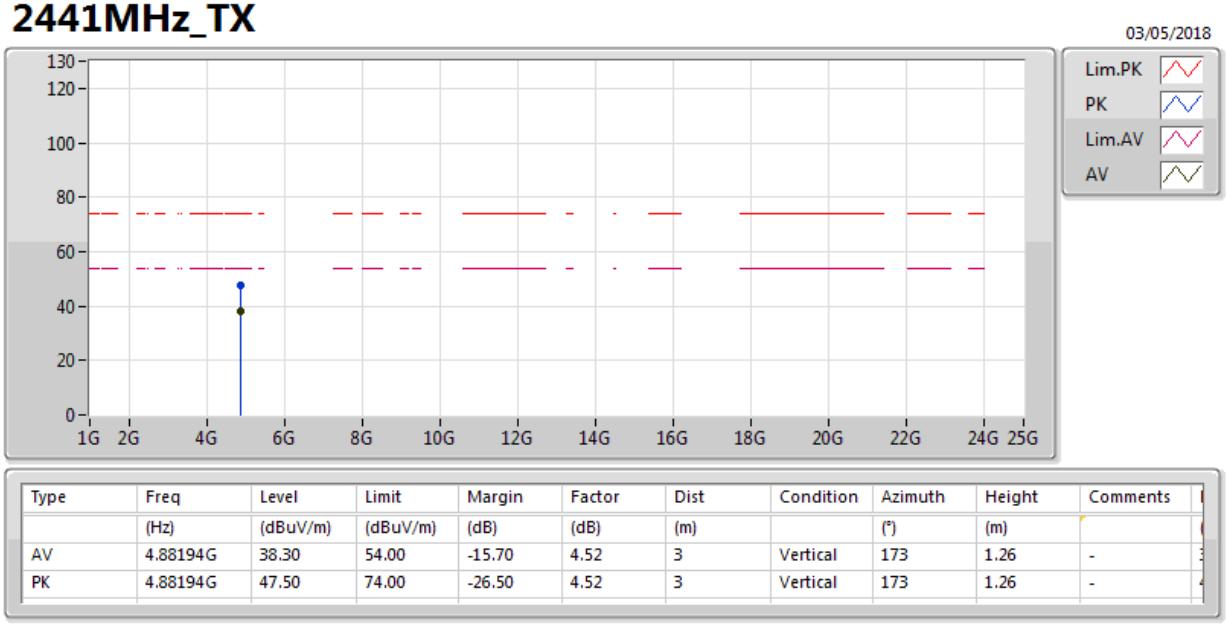
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3574G	45.54	54.00	-8.46	34.05	3	Horizontal	42	1.02	-
AV	2.441G	93.09	Inf	-Inf	34.06	3	Horizontal	42	1.02	-
AV	2.4942G	45.95	54.00	-8.05	34.07	3	Horizontal	42	1.02	-
PK	2.3518G	59.46	74.00	-14.54	34.05	3	Horizontal	42	1.02	-
PK	2.441G	105.90	Inf	-Inf	34.06	3	Horizontal	42	1.02	-
PK	2.487G	59.79	74.00	-14.21	34.07	3	Horizontal	42	1.02	-

BT-BR(1Mbps)

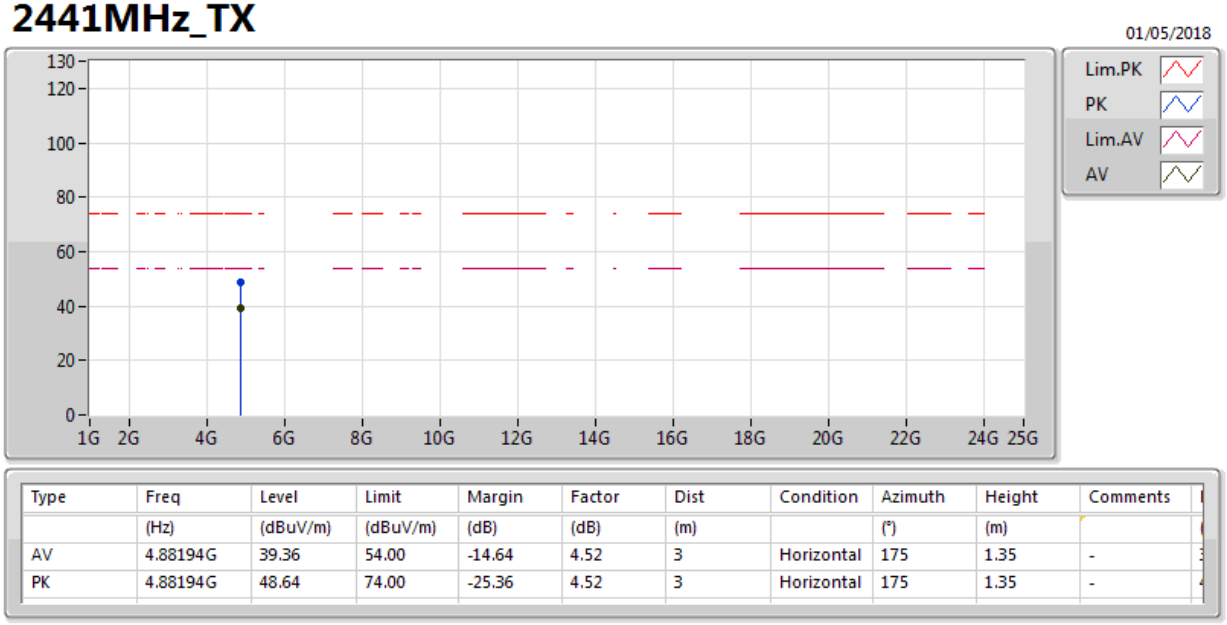
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.88194G	38.30	54.00	-15.70	4.52	3	Vertical	173	1.26	-
PK	4.88194G	47.50	74.00	-26.50	4.52	3	Vertical	173	1.26	-

BT-BR(1Mbps)

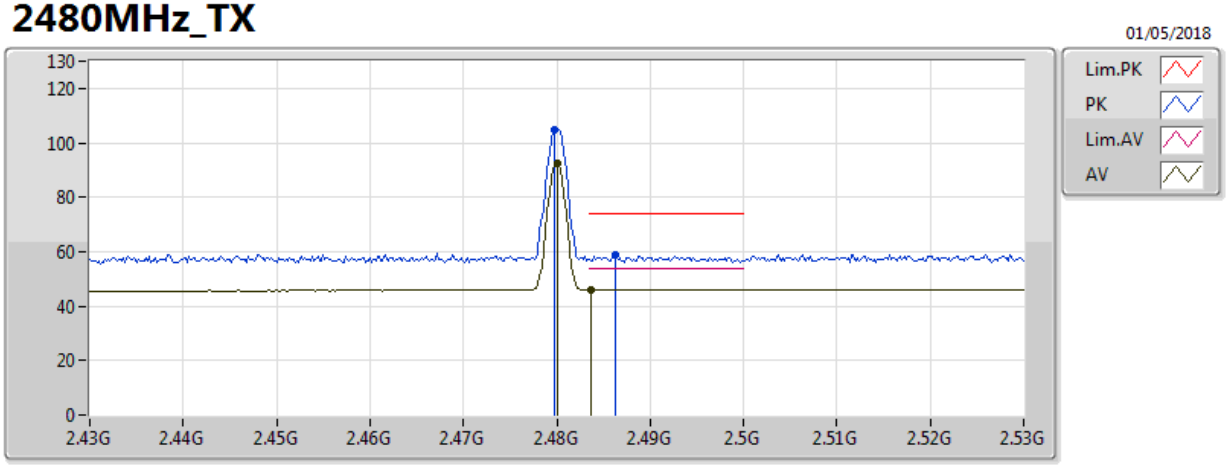
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.88194G	39.36	54.00	-14.64	4.52	3	Horizontal	175	1.35	-
PK	4.88194G	48.64	74.00	-25.36	4.52	3	Horizontal	175	1.35	-

BT-BR(1Mbps)

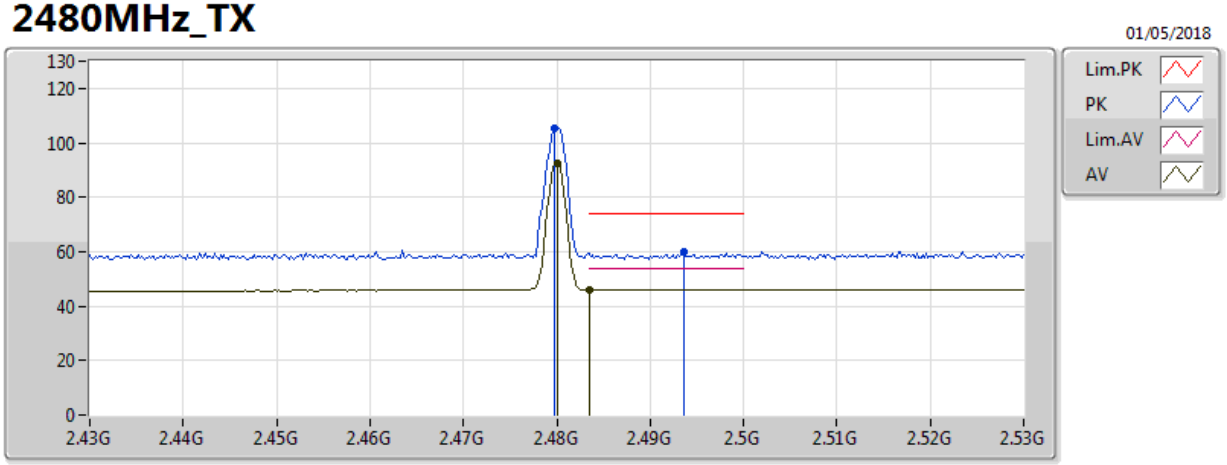
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.48G	92.19	Inf	-Inf	34.07	3	Vertical	359	2.46	-
AV	2.4836G	45.94	54.00	-8.06	34.07	3	Vertical	359	2.46	-
PK	2.4798G	104.70	Inf	-Inf	34.07	3	Vertical	359	2.46	-
PK	2.4862G	58.72	74.00	-15.28	34.07	3	Vertical	359	2.46	-

BT-BR(1Mbps)

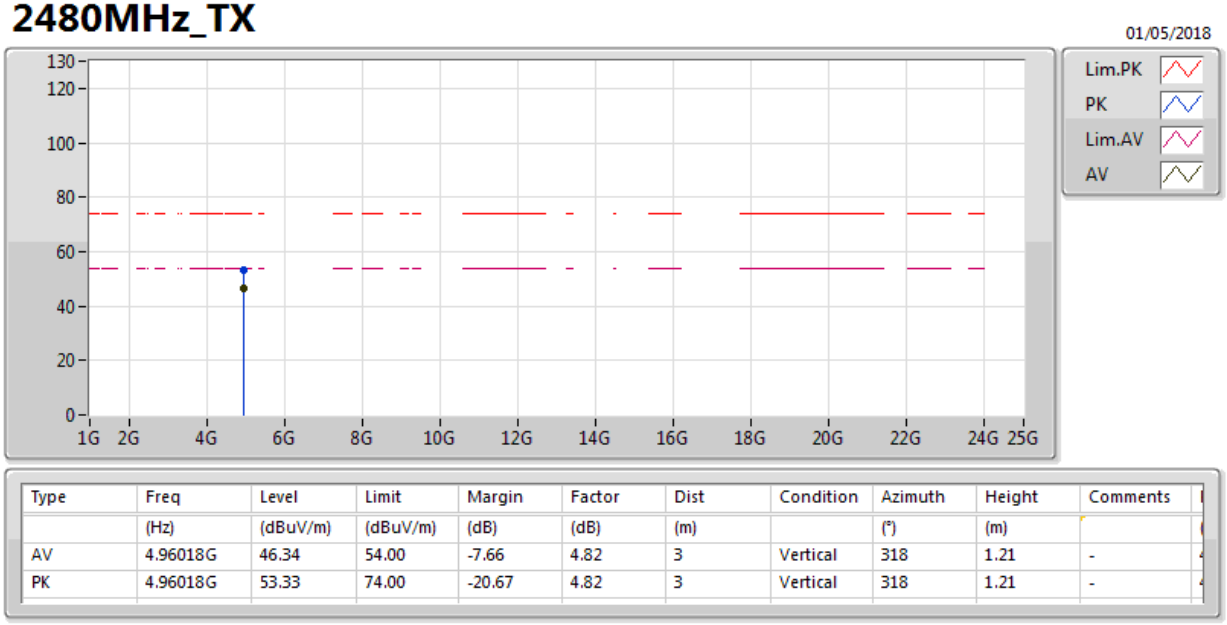
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.48G	92.71	Inf	-Inf	34.07	3	Horizontal	46	1.17	-
AV	2.483502G	46.01	54.00	-7.99	34.07	3	Horizontal	46	1.17	-
PK	2.4798G	105.39	Inf	-Inf	34.07	3	Horizontal	46	1.17	-
PK	2.4936G	59.71	74.00	-14.29	34.06	3	Horizontal	46	1.17	-

BT-BR(1Mbps)

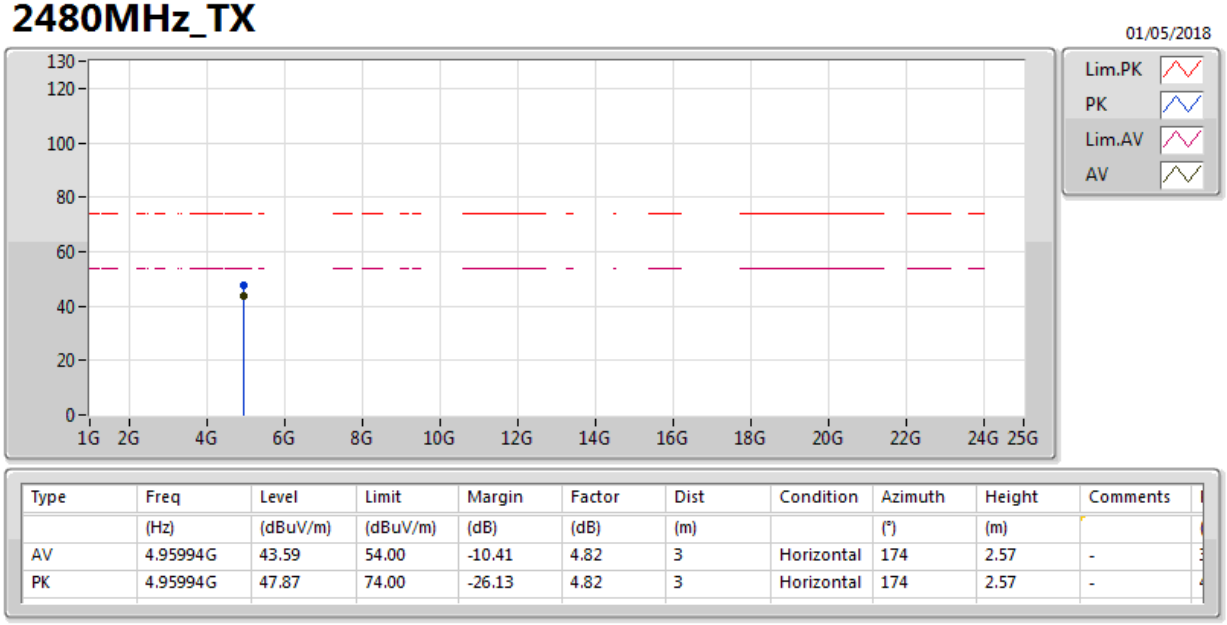
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.96018G	46.34	54.00	-7.66	4.82	3	Vertical	318	1.21	-
PK	4.96018G	53.33	74.00	-20.67	4.82	3	Vertical	318	1.21	-

BT-BR(1Mbps)

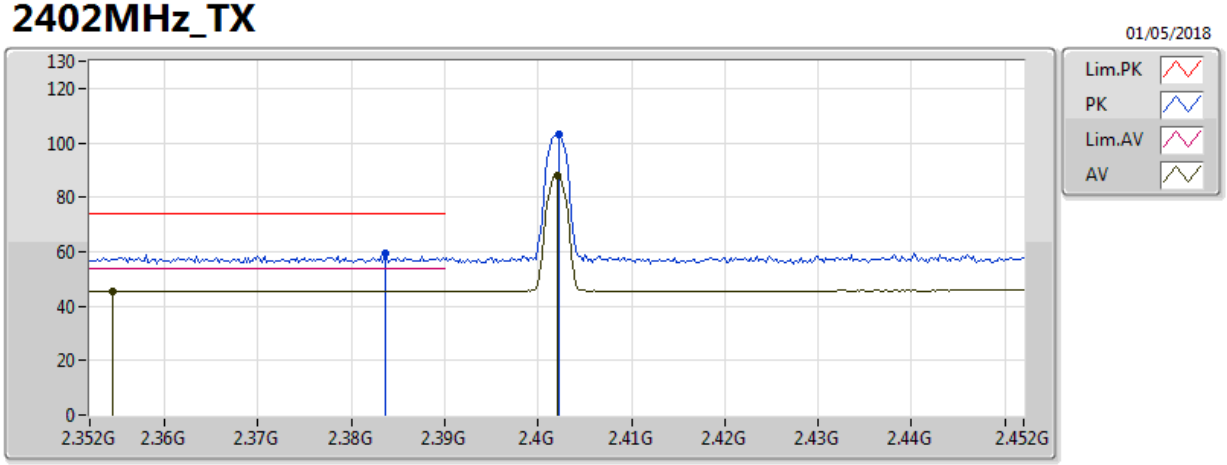
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	4.95994G	43.59	54.00	-10.41	4.82	3	Horizontal	174	2.57	-
PK	4.95994G	47.87	74.00	-26.13	4.82	3	Horizontal	174	2.57	-

BT-EDR(2Mbps)

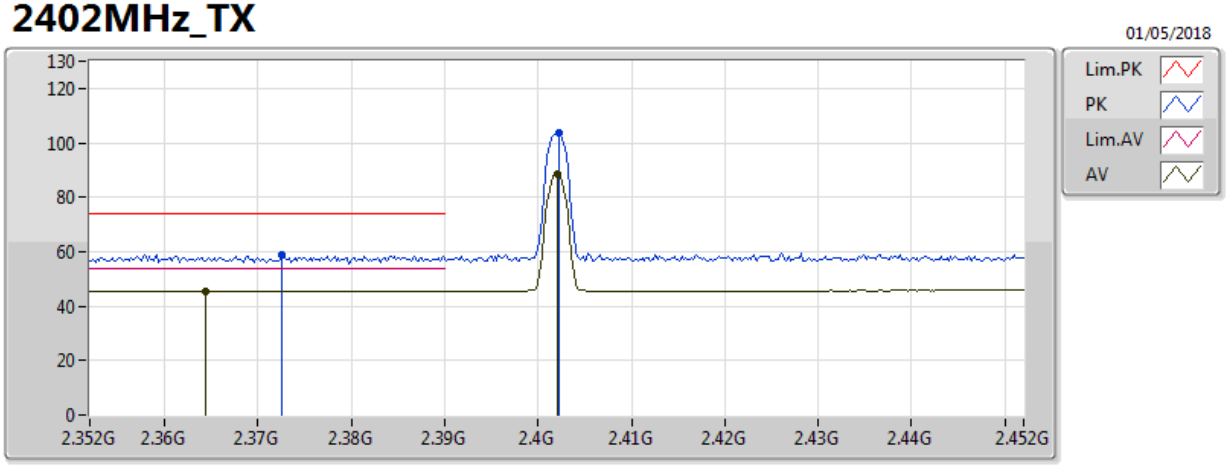
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3544G	45.54	54.00	-8.46	34.05	3	Vertical	325	2.59	-
AV	2.402G	88.15	Inf	-Inf	34.05	3	Vertical	325	2.59	-
PK	2.3836G	59.40	74.00	-14.60	34.05	3	Vertical	325	2.59	-
PK	2.4022G	102.85	Inf	-Inf	34.05	3	Vertical	325	2.59	-

BT-EDR(2Mbps)

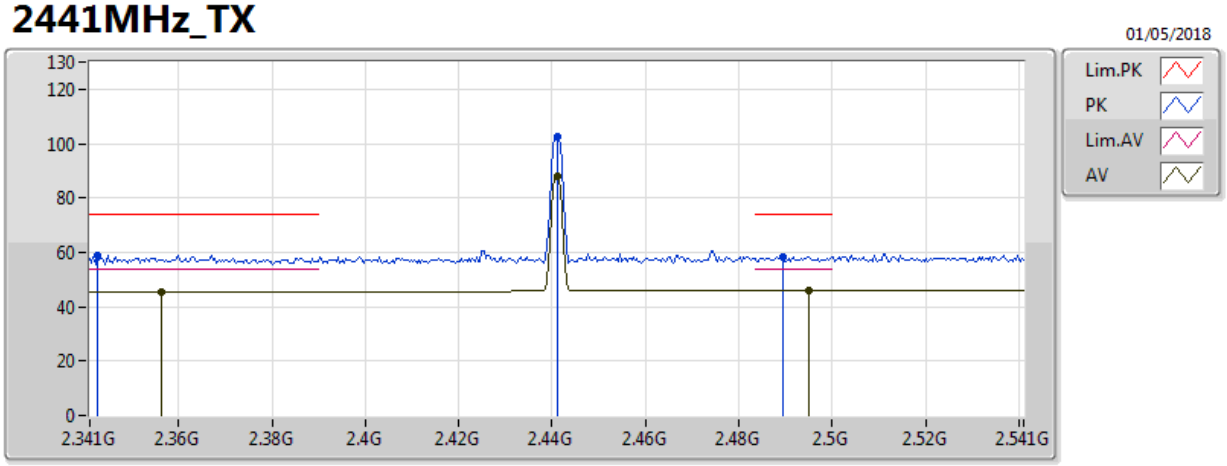
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3644G	45.54	54.00	-8.46	34.05	3	Horizontal	40	1.18	-
AV	2.402G	88.58	Inf	-Inf	34.05	3	Horizontal	40	1.18	-
PK	2.3726G	58.67	74.00	-15.33	34.05	3	Horizontal	40	1.18	-
PK	2.4022G	103.39	Inf	-Inf	34.05	3	Horizontal	40	1.18	-

BT-EDR(2Mbps)

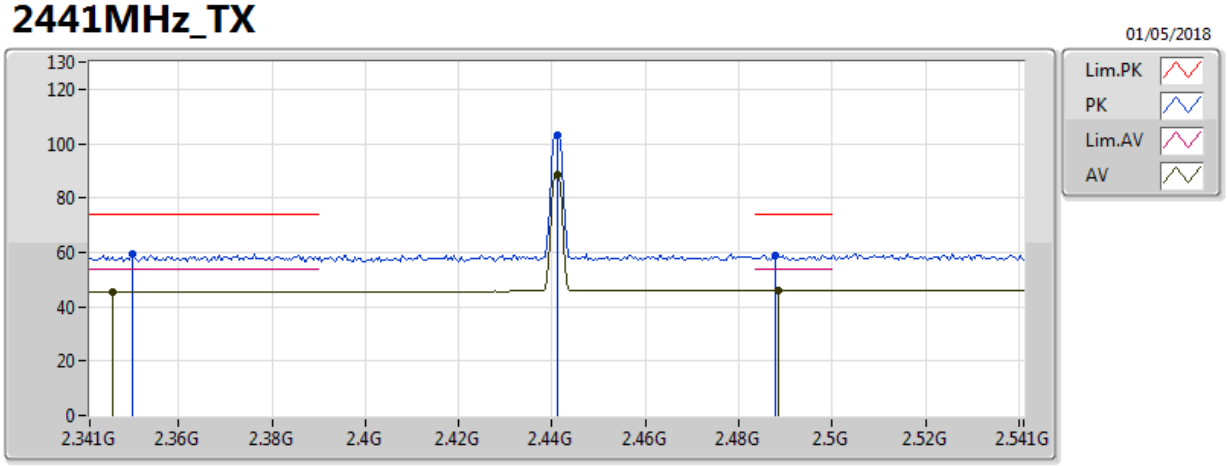
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3562G	45.55	54.00	-8.45	34.05	3	Vertical	322	2.48	-
AV	2.441G	87.72	Inf	-Inf	34.06	3	Vertical	322	2.48	-
AV	2.495G	45.94	54.00	-8.06	34.07	3	Vertical	322	2.48	-
PK	2.3426G	58.89	74.00	-15.11	34.04	3	Vertical	322	2.48	-
PK	2.441G	102.38	Inf	-Inf	34.06	3	Vertical	322	2.48	-
PK	2.4894G	58.53	74.00	-15.47	34.07	3	Vertical	322	2.48	-

BT-EDR(2Mbps)

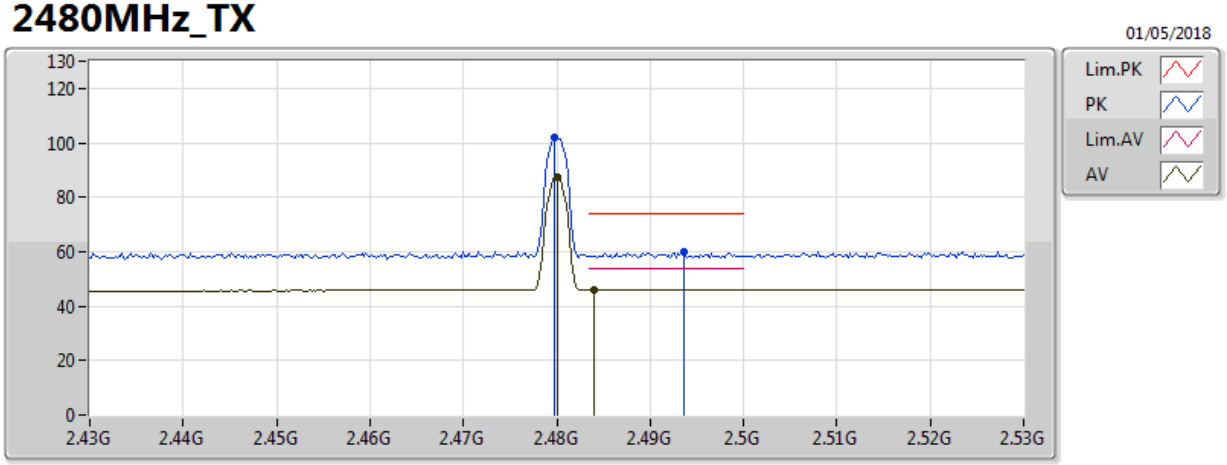
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3458G	45.53	54.00	-8.47	34.04	3	Horizontal	43	1.56	-
AV	2.441G	88.58	Inf	-Inf	34.06	3	Horizontal	43	1.56	-
AV	2.4886G	45.93	54.00	-8.07	34.07	3	Horizontal	43	1.56	-
PK	2.3502G	59.25	74.00	-14.75	34.05	3	Horizontal	43	1.56	-
PK	2.441G	103.36	Inf	-Inf	34.06	3	Horizontal	43	1.56	-
PK	2.4878G	58.93	74.00	-15.07	34.07	3	Horizontal	43	1.56	-

BT-EDR(2Mbps)

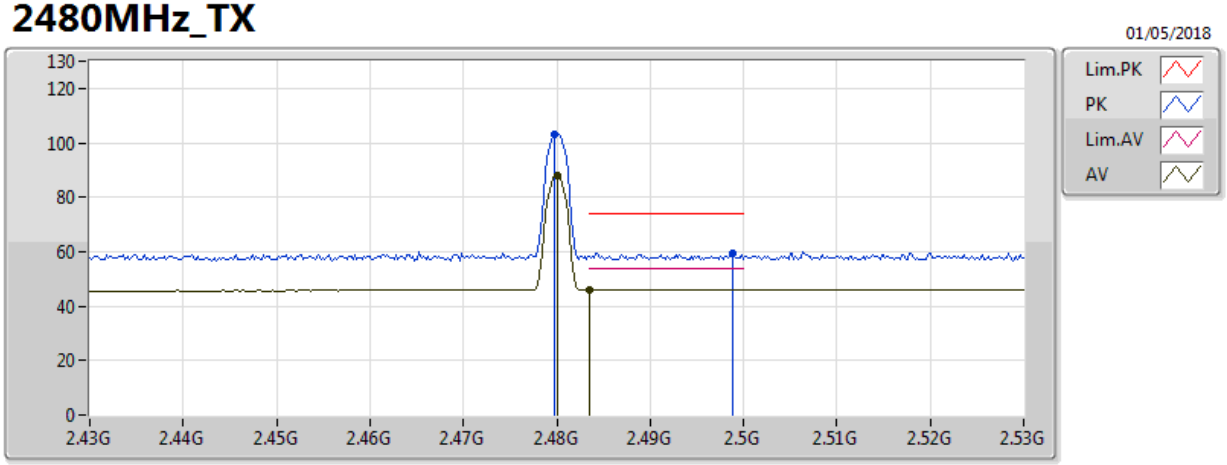
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.48G	87.26	Inf	-Inf	34.07	3	Vertical	0	2.47	-
AV	2.484G	45.90	54.00	-8.10	34.07	3	Vertical	0	2.47	-
PK	2.4798G	101.72	Inf	-Inf	34.07	3	Vertical	0	2.47	-
PK	2.4936G	60.06	74.00	-13.94	34.06	3	Vertical	0	2.47	-

BT-EDR(2Mbps)

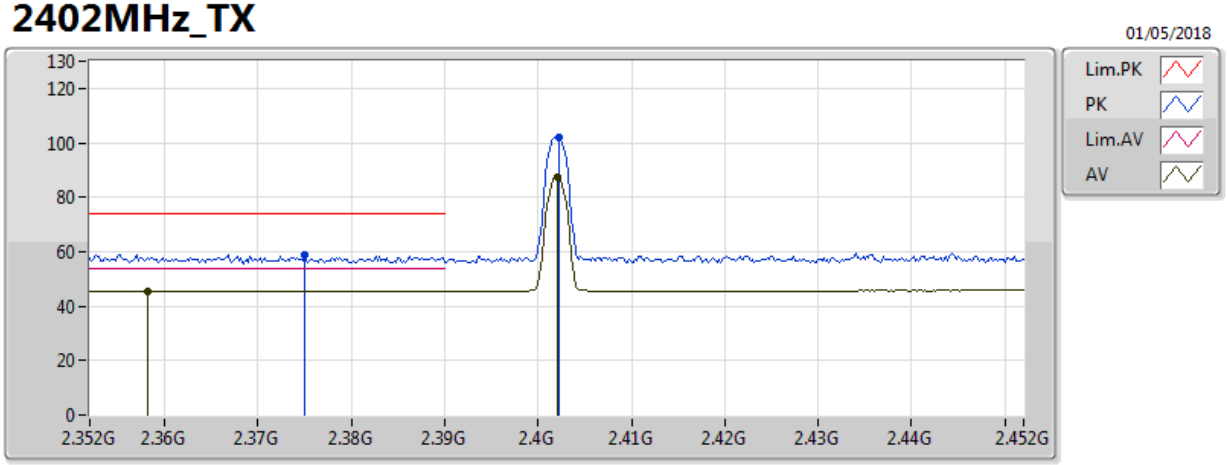
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.48G	88.21	Inf	-Inf	34.07	3	Horizontal	39	1.06	-
AV	2.483502G	45.91	54.00	-8.09	34.07	3	Horizontal	39	1.06	-
PK	2.4798G	102.93	Inf	-Inf	34.07	3	Horizontal	39	1.06	-
PK	2.4988G	59.38	74.00	-14.62	34.07	3	Horizontal	39	1.06	-

BT-EDR(3Mbps)

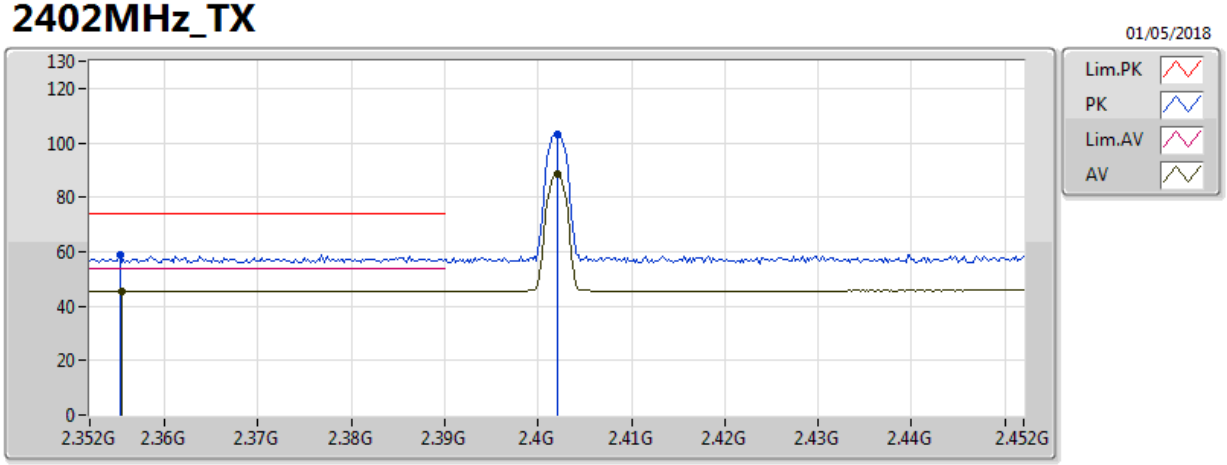
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3582G	45.51	54.00	-8.49	34.05	3	Vertical	359	2.61	-
AV	2.402G	87.49	Inf	-Inf	34.05	3	Vertical	359	2.61	-
PK	2.375G	59.00	74.00	-15.00	34.05	3	Vertical	359	2.61	-
PK	2.4022G	102.19	Inf	-Inf	34.05	3	Vertical	359	2.61	-

BT-EDR(3Mbps)

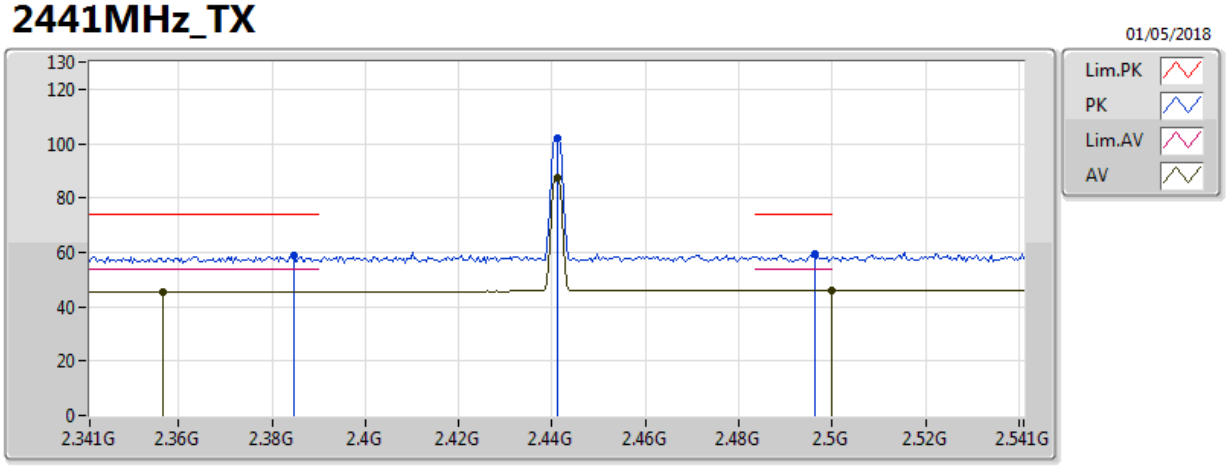
2402MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3554G	45.53	54.00	-8.47	34.05	3	Horizontal	33	1.87	-
AV	2.402G	88.36	Inf	-Inf	34.05	3	Horizontal	33	1.87	-
PK	2.3552G	58.74	74.00	-15.26	34.05	3	Horizontal	33	1.87	-
PK	2.402G	103.30	Inf	-Inf	34.05	3	Horizontal	33	1.87	-

BT-EDR(3Mbps)

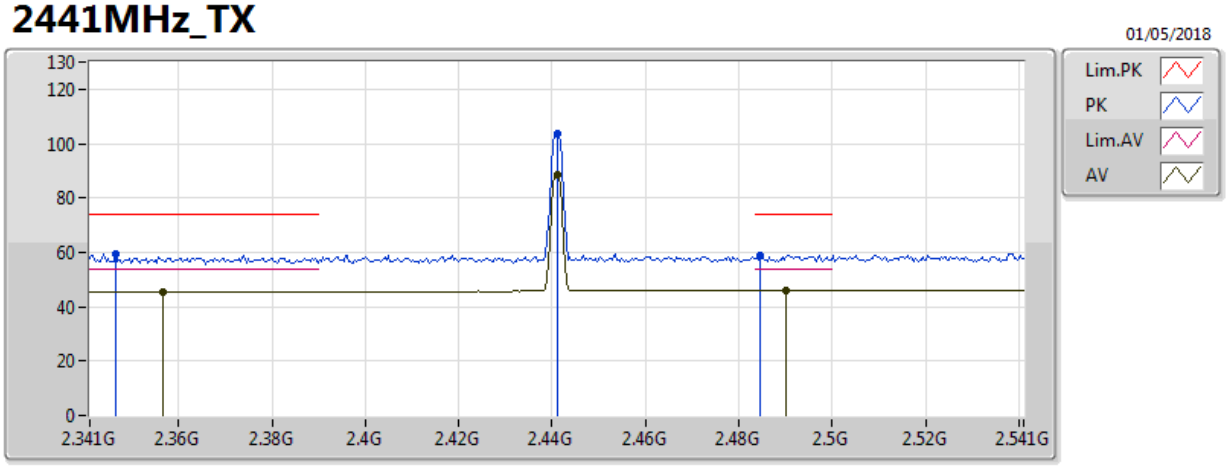
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3566G	45.56	54.00	-8.44	34.05	3	Vertical	344	2.48	-
AV	2.441G	87.44	Inf	-Inf	34.06	3	Vertical	344	2.48	-
AV	2.4998G	45.95	54.00	-8.05	34.07	3	Vertical	344	2.48	-
PK	2.3846G	58.69	74.00	-15.31	34.05	3	Vertical	344	2.48	-
PK	2.441G	102.13	Inf	-Inf	34.06	3	Vertical	344	2.48	-
PK	2.4962G	59.22	74.00	-14.78	34.07	3	Vertical	344	2.48	-

BT-EDR(3Mbps)

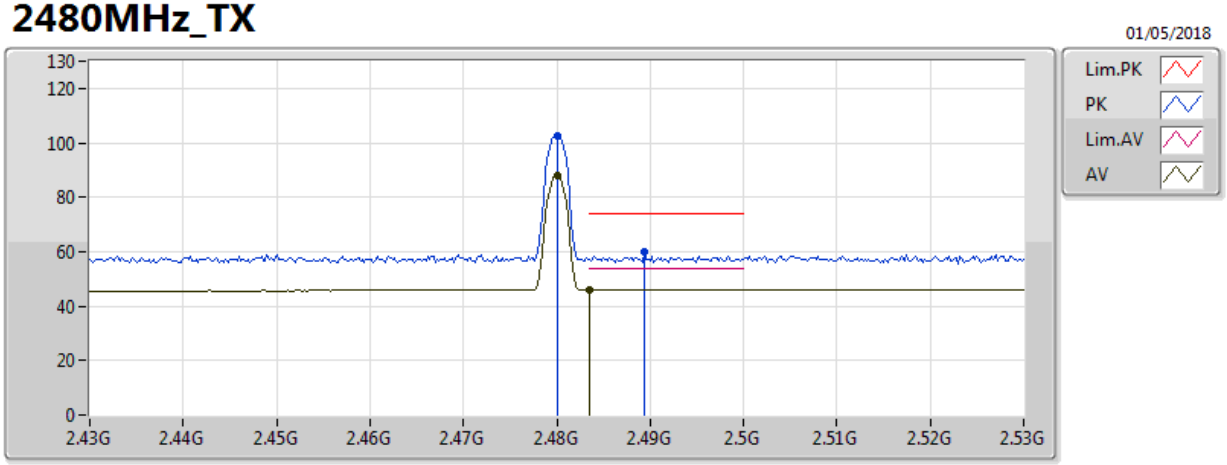
2441MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.3566G	45.53	54.00	-8.47	34.05	3	Horizontal	41	1.17	-
AV	2.441G	88.49	Inf	-Inf	34.06	3	Horizontal	41	1.17	-
AV	2.4902G	45.91	54.00	-8.09	34.07	3	Horizontal	41	1.17	-
PK	2.3466G	59.44	74.00	-14.56	34.04	3	Horizontal	41	1.17	-
PK	2.441G	103.46	Inf	-Inf	34.06	3	Horizontal	41	1.17	-
PK	2.4846G	58.79	74.00	-15.21	34.07	3	Horizontal	41	1.17	-

BT-EDR(3Mbps)

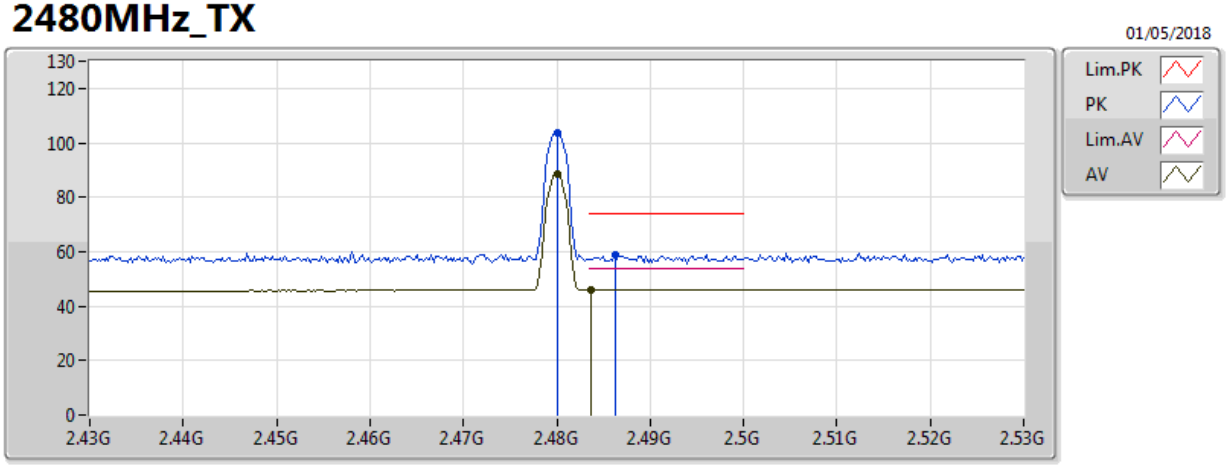
2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.48G	87.87	Inf	-Inf	34.07	3	Vertical	348	2.46	-
AV	2.483502G	45.91	54.00	-8.09	34.07	3	Vertical	348	2.46	-
PK	2.48G	102.74	Inf	-Inf	34.07	3	Vertical	348	2.46	-
PK	2.4894G	59.87	74.00	-14.13	34.07	3	Vertical	348	2.46	-

BT-EDR(3Mbps)

2480MHz_TX



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
AV	2.48G	88.50	Inf	-Inf	34.07	3	Horizontal	33	1.02	-
AV	2.4836G	45.94	54.00	-8.06	34.07	3	Horizontal	33	1.02	-
PK	2.48G	103.49	Inf	-Inf	34.07	3	Horizontal	33	1.02	-
PK	2.4862G	58.94	74.00	-15.06	34.07	3	Horizontal	33	1.02	-